



**Revised Section BR11-1 Supplemental Site Investigation Report
Fuel Distribution System**

Riley Avenue
Presidio of San Francisco, San Francisco, California

August 2, 2019

This report has been prepared for:

The Presidio Trust

103 Montgomery Street
San Francisco, California 94129

Project No. 285830

A handwritten signature in black ink, appearing to read "Michael Patinkin".

Michael Patinkin, EIT, GIT
Project Engineer

A handwritten signature in black ink, appearing to read "Sally Schoemann".

Sally Schoemann, P.E.
Principal Engineer

A handwritten signature in blue ink, appearing to read "Alfonso Ang".

Alfonso Ang, PE
Senior Engineer/Project Manager



505 Sansome Street, Suite 1600, San Francisco, California 94111
Main: 415-644-3000 Fax: 415-434-2321
Website: www.trcsolutions.com

TABLE OF CONTENTS

1.0 INTRODUCTION..... 1

 1.1 Site Description..... 1

 1.2 BR11-1 Remedial History..... 1

 1.3 Conceptual Site Model (Soil and Groundwater)..... 3

2.0 CHEMICALS OF CONCERN AND SCREENING LEVELS..... 5

3.0 SITE INVESTIGATION ACTIVITIES..... 5

 3.1 Pre-field Activities 5

 3.2 Soil Investigation..... 6

 3.2.1 Soil Boring Installation 6

 3.2.2 Soil Sampling and Analyses..... 7

 3.2.3 Deviations from Work Plan..... 8

 3.3 Groundwater Investigation..... 8

 3.3.1 Groundwater Well Installation..... 9

 3.3.2 Groundwater Well Development 9

 3.3.3 Groundwater Well Baseline Sampling and Analysis 9

 3.3.4 Groundwater Monitoring Well Survey 10

 3.3.5 Deviations from Work Plan..... 11

 3.4 Investigation Derived Waste 11

4.0 ANALYTICAL RESULTS..... 11

 4.1 Soil Analytical Results 11

 4.2 Groundwater Analytical Results 12

5.0 SOIL AND GROUNDWATER IMPACTS DELINEATION..... 12

 5.1 Soil Impact Delineation..... 13

 5.2 Groundwater Delineation 14

6.0 CONCLUSIONS AND RECOMMENDATIONS..... 16

7.0 REFERENCES..... 17

Figure 1 – Vicinity Map

Figure 2 – Site Map

Figure 3A – Soil Sampling Results 127

Figure 3B – Soil Sampling Results 128

Figure 4 – Groundwater Sampling Results

Figure 5 – Storm Drain Utility Map

Table 1 – Well Construction Details

Table 2 – Groundwater Level Measurements

Table 3 – Soil Analytical Results - Total Petroleum Hydrocarbons and Volatile Organic
Compounds

Table 4 – Soil Analytical Results - Polycyclic Aromatic Hydrocarbons

Table 5 – Groundwater Analytical Results – Total Petroleum Hydrocarbons and Volatile Organic
Compounds

Table 6 – Groundwater Analytical Results – Polycyclic Aromatic Hydrocarbons and Total
Dissolved Solids

Attachment A – Soil Boring and Well Construction Logs

Attachment B – Well Development and Sampling Records

Attachment C – Non-hazardous Waste Manifest – Drum Disposal

Attachment D – Laboratory Reports

Attachment E – Soil Boring and Monitoring Well Survey Plan

Attachment F – Cross-Section Figures

Attachment G – RWQCB Comments and Response to Comments

ABBREVIATIONS AND ACRONYMS

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, xylenes
COC	chemical of concern
CSM	Conceptual Site Model
CUL	cleanup level
DO	dissolved oxygen
EC	electrical conductivity
EKI	Erler & Kalinowski
EPA	Environmental Protection Agency
ESL	Environmental Screening Level
FDS	Fuel Distribution System
ft	foot, feet
HASP	Health and Safety Plan
HSA	hollow stem auger
IT	IT Corporation
MCL	Maximum Contaminant Level
NAVD 88	North America Vertical Datum of 1988
NFA	no further action
ORP	oxidation/reduction potential
PAH	polycyclic aromatic hydrocarbon
PID	photoionization detector
Presidio	Presidio of San Francisco
QAPP	Quality Assurance Project Plan
RWQCB	Regional Water Quality Control Board
SGC	silica gel cleanup
TPH-d	total petroleum hydrocarbons as diesel
TPH-g	total petroleum hydrocarbons as gasoline
TPH-mo	total petroleum hydrocarbons as motor oil
Trust	Presidio Trust
TRC	TRC Solutions, Inc.
USA	Underground Service Alert
USCS	Unified Soil Classification System
VOA	volatile organic analysis
Water Code	California Water Code of 1943

REVISED SECTION BR11-1 SUPPLEMENTAL SITE INVESTIGATION REPORT
FUEL DISTRIBUTION SYSTEM
RILEY AVENUE, PRESIDIO OF SAN FRANCISCO
SAN FRANCISCO, CALIFORNIA

1.0 INTRODUCTION

This *Revised Supplemental Site Investigation Report (Revised Report)* has been prepared by TRC Solutions, Inc. (TRC) on behalf of the Presidio Trust (the Trust) to characterize and discuss soil and groundwater impacts associated with the fuel oil release from Section BR11-1 of the former Fuel Distribution System (FDS) at the Presidio of San Francisco. The investigation described herein was conducted in conformance with the *Revised Addendum 2 Section BR11-1 Supplemental Site Investigation Work Plan* (TRC, 2018a) (*Supplemental Work Plan*) approved by the Regional Water Quality Control Board (RWQCB) on May 10, 2018 via email approval (RWQCB, 2018a). This *Revised Report* addresses RWQCB's comments dated January 3, 2019 and June 19, 2019 (RWQCB, 2019a and 2019b). Comments and responses are included as **Attachment G**.

This *Revised Report* presents the soil and groundwater investigation activities performed to further delineate the horizontal and vertical extents of fuel oil in soil and groundwater and supplements the information previously presented in the *Interim Update Report* (TRC, 2017c). The findings from the investigation were used to refine the site conceptual model originally presented in *Supplemental Work Plan* and develop a remedial approach protective of human health and the environment. The proposed remedial approach is not included in this *Report* and will be presented under a separate cover.

1.1 Site Description

Former FDS Section BR11-1 (the Site) is located in the Main Post Area of the Presidio of San Francisco (Presidio), San Francisco, California (**Figure 1**). Section BR11-1 serviced boilers in the basements of residential Buildings 127A/B, 128A/B, and 129A/B on the west side of Riley Avenue (**Figure 2**).

Additionally, a 1,500-gallon fuel oil underground storage tank (UST; historically referenced as Tank 127 or PSF-127) was used to store fuel for the boilers. This UST was previously located in the landscaped area south of Building 127, near the intersection of Riley Avenue and Sheridan Avenue (shown on **Figure 2**), and was removed in 1978. The Trust submitted a request for No Further Action (NFA) for Tank PSF-127 in September 2010 (Trust, 2010) and received RWQCB concurrence in January 2013 (RWQCB, 2013).

1.2 BR11-1 Remedial History

A summary of remedial actions associated with BR11-1 is presented below.

The FDS was substantially removed by the U.S. Army between 1996 and 1999. Documentation of the removal activities and associated confirmation sampling is presented in the three (3)-volume report, titled *Fuel Distribution System Closure Report, Presidio of San Francisco, California*, prepared by IT Corporation (IT) and dated May 1999 (IT, 1999).

On January 27, 2006, the Presidio Trust submitted the *FDS Closure Certification Report – Phase I* to the RWQCB requesting closure of 27 FDS sections, including Section BR11-1. On September 16, 2009, the RWQCB determined that NFA was required (RWQCB, 2009).

In May 2017, soil contaminated with total petroleum hydrocarbons as diesel (TPH- d) was discovered during maintenance work in the basement of residential Building 127B. The Trust implemented interim remedial measures in accordance with the established *Petroleum Contingency Plan* (EKI, 2004), including initial soil and groundwater sampling to characterize the area of impact, limited excavation of impacted soil, placement of oxygen release compound within the excavation, and backfill with clean soil.

The Trust notified the RWQCB of the discovery and interim remedial actions were taken on July 19, 2017. Based on the information provided by the Trust, the RWQCB re-opened FDS Section BR11-1 in an email dated July 20, 2017 (RWQCB, 2017a).

In October 2017, the Trust performed soil, sub-slab vapor, and groundwater sampling in accordance with the September 14 Work Plan (TRC, 2017a), the September 27 site specific Health & Safety Plan (HASP) (TRC, 2017b), and the revised soil and soil vapor investigation approach for Building 128A, sent via email to RWQCB on October 10, 2017. The results of the investigation were submitted to the RWQCB in an *Interim Update Report* (TRC, 2017c).

On November 13, 2017, the Trust implemented interim measures at Building 127B. The interim measures consisted of the installation of a 15-mil, Stego® vapor barrier over the entire exposed basement floor and 4-inch ventilation fan. The fan exhaust was routed to the outside of the building through the existing chimney flue. The 100 cubic feet (ft) per minute nominally rated ventilation fan is set to automatically run for 1.5 hours with 1-hour off intervals.

On November 29, 2017, the RWQCB issued a letter to the Trust requiring submittal of a vapor intrusion work plan for Buildings 127A, 128A, and 129B (RWQCB, 2017b). A review of available building information including building information sheets and floor plans along with a building survey of Buildings 127A, 128A, and 129B was performed on December 4, 2017 to identify potential vapor migration pathways and select proposed sampling locations.

The *VI Work Plan* was submitted to RWQCB on December 20, 2017 (TRC, 2017d). RWQCB comments and conditional approval of the *VI Work Plan* was received by the Trust on January 12, 2018 (RWQCB, 2018b). On January 19, 2018, the Trust submitted a

letter response acknowledging RWQCB's comments and amending the *VI Work Plan*, accordingly (TRC, 2018b).

Between February and July 2018, the Trust conducted soil vapor intrusion (SVI) investigations at Buildings 127A, 128A, and 129B, and additional sub-slab vapor investigations at Buildings 128B and 129A. Results of the SVI and sub-slab investigations were documented and reported to the RWQCB under separate cover (TRC, 2018c, 2018d, and 2018e).

In June and July 2018, the Trust conducted supplemental soil and groundwater investigations. Supplemental investigations consisted of the installation of 23 soil borings, three (3) groundwater wells, collection of grab groundwater and soil samples, and initial sampling of installed groundwater monitoring wells. In October 2018, the Trust conducted the second groundwater monitoring event. Investigation activities and results are presented in Sections 3.0 and 4.0, respectively.

1.3 Conceptual Site Model (Soil and Groundwater)

A Conceptual Site Model (CSM) for soil and groundwater was presented in Addendum 1, the *VI Work Plan* and has been updated based on the results of this supplemental investigation. In summary:

- Soil containing residual TPH-d is known to be present directly beneath the basements of Buildings 127A (based on sub-slab vapor data), 127B, and 128A serviced by BR11-1. Residual TPH-d soil impacts were also detected in subsurface soils to the southeast of Buildings 127A and 127B: confined laterally to the front yards and vertically between 5 and 30 ft below ground surface (bgs). No soil contamination was detected in soil samples collected from the surface to 50 ft bgs to the southwest, northwest and northeast of 127A and 127B. Similarly, no soil contamination was detected in samples collected from the surface to 50 ft bgs to the southeast, northeast and northwest of Building 128A.
- Subsurface soils have generally been characterized as lean clay with interbedded sands down to 35 to 40 ft bgs at the southwest area of the Site beneath Buildings 127A and 127B and increasing down to the northeast to at least 50 ft bgs beneath Building 128A. Soil boring data indicates bedrock is encountered starting at 35 ft bgs beneath buildings 127A and 127B. No bedrock was encountered down to 50 ft bgs beneath 128A. Shallow soils around the basement walls and beneath the basement concrete slab are generally moist and, in some cases, perched water has been observed directly below and adjacent to the slab.
- Depth to groundwater at the southwest area where the bedrock high is located range from 23.30 ft (BR11-1GW01) to 34.06 ft (BR11-1GW03) bgs with calculated elevations of 58.48 and 47.65 ft (referenced to the North American Vertical Datum of 1988 [NAVD 88]), respectively. Depth to groundwater elevation declines to a measured depth of 56.88 ft bgs (BR11-1GW02) with elevation of 19.15 ft towards the northeast where the bedrock high was no longer present.

-
- Groundwater data from installed groundwater monitoring wells on Site and other nearby Presidio groundwater monitoring locations, indicates the direction of groundwater flow is to the north, as shown on Figure 4.
 - Based on historic boring logs and recent subsurface investigations, the Site's lithology has been evaluated and is composed of well bedded, fine- to medium-grained sands with interbedded layers of silts and clays, and is presented on cross-sections F-1, F-2 and F-3, included as **Attachment F**.
 - Site lithology contains impermeable layers above bedrock, which creates localized lenses of perched groundwater; this is observed at locations SB004, GW01, and GW03, which show groundwater elevations approximately 30 ft to 40 ft above the local laterally-continuous water-bearing zone.
 - TPH-d was originally identified southeast of Building 127B in water encountered at 27 ft bgs. However, TPH-d analytical results from collected grab groundwater and installed monitoring wells samples were either below screening levels, or, above screening levels but, at a lower magnitude than what was detected southeast of Building 127B at 27 ft bgs in soil boring SB004. TPH-d detections in groundwater above screening levels have been identified northeast and east of Building 127A, southeast of Building 127B, and southeast of Building 128A in water encountered between 23 and 57 ft bgs. However, based on chromatograph review, the detected TPH-d is suspected to be primarily biogenic origin and not petroleum hydrocarbon. Quarterly groundwater monitoring is scheduled to continue at the Site to further assess if the residual soil contamination southeast of Building 127B has resulted in groundwater impacts beyond those initially encountered at 27 ft bgs.
 - Fate and transport of secondary source groundwater impacts include potential downgradient migration due to advection and, to a lesser degree, diffusion and dispersion. However, due to the presence of perched lens, impacted groundwater at locations SB004 and GW-01 are most likely hydraulically disconnected from local laterally continuous groundwater bodies.
 - An additional secondary source impact is contaminant vapors releasing from impacted subsurface soil. These vapors migrate through the vadose zone, through preferential paths of least resistance, and can exit through the soil-atmosphere boundary or into overlaying buildings. Soil vapor intrusion (SVI) investigations have been conducted indicating no unacceptable human health risk from SVI is present in Buildings 127A, 128A/B and 129A/B. A vapor mitigation system was installed in the basement of Building 127B to address vapor intrusion. A report documenting the installation and initial vapor intrusion sampling is currently under preparation and will be submitted under a separate cover.
 - Potential human receptors include existing and future residential tenants and the occasional maintenance worker. However, residual soil contaminations is at depth and exposure mitigated by existing overlaying hardscape (concrete slabs) and landscaping (un-impacted soil).
 - Potential ecological receptors included the Crissy Marsh and the San Francisco Bay by possible transport of contaminants via existing storm drain utilities lines. However, identified lateral and vertical extents of soil impacts do not intersect known storm drain lines servicing Riley Avenue and reported groundwater

contaminant concentrations are below Aquatic Habitat Environmental Screening Levels (ESL). As such, the exposure pathway for ecological receptors via soil or groundwater exposure is considered incomplete.

2.0 CHEMICALS OF CONCERN AND SCREENING LEVELS

The following are the identified chemicals of concern (COCs):

- **Soil:** TPH-d and naphthalene are the primary COCs detected above screening levels in soil.
- **Groundwater:** TPH-d and total petroleum hydrocarbons as gasoline (TPH-g) have been detected above current Site screening levels. Additional contaminants detected include total petroleum hydrocarbons as motor oil (TPH-mo) and bunker c oil (TPH-bc).
- **Sub-Slab/Soil Vapor:** TPH-d, TPH-g, and benzene are identified as COCs in soil vapor beneath 127A and 127B.

Primary screening levels for soil and groundwater are the Presidio Cleanup Levels (CUL) from the *Presidio-Wide Cleanup Levels* document (EKI, 2002), as amended, and RWQCB Tier 1 ESLs (RWQCB, 2019c). Secondary screening levels include Residential ESLs for soil and Maximum Contaminant Level (MCL) Priority ESL for groundwater. The secondary screening levels are utilized to further evaluate exceedances of the Tier 1 ESLs.

3.0 SITE INVESTIGATION ACTIVITIES

The supplemental investigation activities were performed to assess the extent of soil and groundwater impacts surrounding Buildings 127A, 127B, and 128A between June 4 and July 6, 2018.

3.1 Pre-field Activities

Prior to beginning field work, a Dig Permit was obtained from the Presidio Trust for the installation of the soil borings and groundwater monitoring wells. Soil boring locations were marked with stakes, flagging, and paint as appropriate and Underground Services Alert (USA) was notified over three (3)-working days ahead of commencing work at the site. The USA ticket was maintained through the duration of the supplemental investigation work.

Site investigation activities were conducted in accordance with the site-specific HASP (TRC, 2017b). The HASP establishes responsibilities, procedures and contingencies to ensure the health and safety of TRC employees, contractors, visitors and the public while performing investigation and remediation activities for the Site and was maintained onsite during the supplemental investigation. Each day of field work, a “tailgate” meeting was conducted with all workers to discuss the health and safety issues and concerns related to the specific scope of work on that day.

3.2 Soil Investigation

The soil investigation activities were conducted between June 4 through June 6 and June 25 through June 28, 2018. Investigation work was stopped on June 6 due to conflicts with a scheduled event that required stoppage of work. The Trust informed the RWQCB of the work stoppage via email on June 6 (TRC, 2018f) Investigation work was resumed on June 25, 2018. Soil investigation included installation of fourteen (14) soil borings and soil sample collection for laboratory analysis. Soil borings were installed by Penecore Drilling (Penecore) of Woodland, California under supervision of TRC.

The locations of the soil borings installed during this supplemental investigation and previous investigations are shown on **Figures 3A** and **Figure 3B**. All soil sampling work was completed in accordance with the *Presidio-Wide Quality Assurance Project Plan* (QAPP; Tetra Tech, 2001) and current regulatory requirements.

3.2.1 Soil Boring Installation

- 1) Eleven (11) borings were installed around Buildings 127A & 127B and three (3) soil borings were installed around Building 128A, totaling to fourteen (14) soil borings installed during the supplemental investigation.
- 2) Eleven (11) soil borings (BR11-1SB010 through BR11-1SB020) were installed using a track-mounted Geoprobe® 8040DT drill rig equipped with 2.25-inch direct push drive casings to approximate depths of 35 ft bgs (soil borings designed with soil samples only), 50 ft bgs (soil borings designed with soil and grab groundwater samples), or first encountered groundwater whichever was shallower. The soil boring locations were selected to determine the lateral and vertical extents of soil and groundwater impacts around the buildings.
 - a. BR11-1SB010 through 014 targeted Building 127B southeast area towards Riley Avenue and southwest area next to the sunroom.
 - b. BR11-1SB015 through 018 targeted Building 127A northeast area next to the sunroom and towards Riley Avenue.
 - c. BR11-1SB019 and 020 targeted Building 128 north and northeast area next to the sunroom.
- 3) Three (3) soil borings (BR11-1GW001 through BR11-1GW-003) were initially installed using the same track-mounted Geoprobe® 8040DT drill rig and 2.25-inch direct push drive casings and subsequently over drilled using a six (6)-inch hollow stem auger (HAS) casings and completed as groundwater monitoring wells. Installed boring locations are as follows:
 - a. BR11-1GW001 was installed northeast of previous investigation boring SB004 where the deepest soil contamination (27 ft bgs) had been reported.
 - b. Soil boring BR11-1GW002 was installed southeast of Building 128A in the front yard near the alignment of the former fuel oil line lateral.
 - c. Soil boring BR11-1GW003 was installed to assess potential impacts to the north of Building 127A.

-
- d. Groundwater monitoring well installation details are presented in Subsection 3.3.

The total boring depth varied from 45 ft bgs (BR11-1GW003) to 60 ft bgs (BR11-1GW002) and was based on the encountered depth to groundwater, which varied between 23 and 57 ft bgs. Please consult **Table 1** and the well construction logs included as **Attachment A** for more detail.

- 4) Soil borings not completed as monitoring wells were abandoned by backfilling with neat cement grout to within one (1) foot of the surface and then filled with material matching surrounding grade (top soil).
- 5) Soil borings were logged using Unified Soil Classification System (USCS) designations during drilling and screened using a photoionization detector (PID). Soil boring logs are included as **Attachment A**.

3.2.2 Soil Sampling and Analyses

- 1) Soil samples were collected as follows:
 - a. Representative of 3, 5, 7, 10-ft bgs and every five (5) ft thereafter at each boring until termination depth.
 - b. One (1) additional sample was collected between the sampling intervals described above: SB-010[17.5] was collected from 17.5 ft bgs at boring SB-010. Visually stained soil with an elevated photoionization detector (PID) response was observed at this interval.
- 2) Soil Sample Collection
 - a. Soil samples from 5-ft or shallower depths were collected using a hand-auger.
 - b. Samples deeper than 5-ft were collected using clear acetate lined cores retrieved by the push rig.
 - c. The soil samples for TPH-g analysis were collected using U.S. Environmental Protection Agency (EPA) field preservation Method 5035 using Terra Core™ samplers and placed in laboratory-supplied volatile organic analysis (VOA) vials: one (1) containing methanol as a preservative, the other two (2) containing deionized water.
 - d. The soil samples for TPH-d and total petroleum hydrocarbon as motor oil (TPH-mo) analysis were collected using unpreserved, four (4)-ounce, wide-mouth jars with Teflon® lined lids.
 - e. The samples were labeled, sealed in a plastic bag, and stored in an iced-chilled cooler before transport to the analytical laboratory. Collected soil samples were transported to Enthalpy Analytical (Enthalpy) in Berkeley, California, under chain-of-custody protocols.
 - f. Field duplicates were collected at a frequency of one (1) duplicate for every 10 samples collected.
- 3) Soil Samples were analyzed for the following COCs:

-
- a. TPH-g, TPH-d without silica gel cleanup (SGC) and TPH-mo by EPA Test Method 8015.
 - b. All results were reported by the laboratory on a dry weight corrected basis.

3.2.3 Deviations from Work Plan

Unanticipated conditions encountered during the course of the soil investigation required certain elements of the work plan be modified, as follows:

- While drilling BR11-1SB014 the drill rig encountered refusal at 26 ft bgs. This boring was designed to extend to 50 ft bgs. Since this could not be accomplished in the field, nearby BR11-1SB013 was extended to 50 ft bgs to obtain deeper resolution of the subsurface.
- Boring BR11-1GW03 was designed to extend to 50 ft bgs but was only advanced to 45 ft bgs due to groundwater being encountered shallower than anticipated.
- Boring locations were shifted where needed to avoid marked utility lines, but did not affect the overall spatial resolution of the investigation
- Suspension of PAHs and benzene, toluene, ethylbenzene, and xylenes (BTEX) soil analysis was approved by RWQCB in an email dated May 3, 2018 (RWQCB. 2018c), and prior to implementation of the field work.

3.3 Groundwater Investigation

During the installation of the eleven (11) soil borings, grab groundwater samples were collected from borings BR11-1SB012, BR11-1SB015, and BR11-1SB017. Grab groundwater collection was conducted by advancing the boring five (5) ft beyond the encountered groundwater and placing temporary perforated well casing in the open boring. The groundwater was allowed to recharge and stabilize within the temporary well, a depth to water measurement was collected, and a grab groundwater sample collected using disposable tubing equipped with an inertially activated check valve and laboratory supplied containers.

Grab groundwater samples were analyzed for the following COCs:

- c. TPH-g, TPH-d without SGC and TPH-mo by EPA Test Method 8015
- d. BTEX by EPA Test Method 8021
- e. PAHs by EPA Test Method 8270

In addition to the grab groundwater samples, three (3), 2-inch groundwater monitoring wells BR11-1GW001, BR11-1GW002, and BR11-1GW003 were installed, developed, and sampled during the investigation. Installed groundwater monitoring well locations are shown on **Figure 4**. As determined using water table elevations from the installed wells, groundwater flows to the northeast across the Site at a calculated gradient of 0.35 ft/ft during both July 6 and October 3, 2018 sampling events.

3.3.1 Groundwater Well Installation

Groundwater monitoring well installation was conducted on June 25 and 26, 2018. Wells were installed following the advancement of their associated direct push soil borings. Soil borings were advanced using direct push drilling methods until refusal was encountered or approximately five (5) ft past encountered groundwater. Following the completion of each direct push boring, well installation was conducted using the Geoprobe® 8040DT rig equipped with a six (6)-inch diameter hollow stem auger (HSA) casings. The direct push borings were over-drilled using the HSA casing until groundwater was encountered if not already done so during the direct push drilling. Each boring was drilled approximately five (5) ft past first encountered groundwater and the well assembly was installed within the hollow stem of the emplaced augers. Groundwater well installation was performed by Penecore under TRC supervision.

The installed groundwater monitoring well assemblies consist of nominal 2-inch diameter PVC blank (riser) casing and 15 ft of factory pre-packed slotted casing consisting of 0.010-inch slotted casing surrounded by 20/40 mesh sand, encased in a stainless-steel mesh, and approximately 3.4 inches outside diameter (Geoprobe® pre-packed screen). The annular space around the wells was filled with #2/12 sand to two (2) ft above the top of each pre-packed well screen, followed by two (2) ft of hydrated bentonite chips, and neat cement grout to near surface. Each wellhead was sealed with a watertight, lockable well cap. A flush-mounted, eight (8)-inch diameter, traffic-rated well box was installed over each wellhead. Well construction details are presented in **Table 1** and the well construction logs included as **Attachment A**.

3.3.2 Groundwater Well Development

On June 29, 2018, TRC developed the monitoring wells using a combination of surging and purging with a 2-inch Grundfos® MP1-2 submersible pump with controller and a flow-through cell equipped with a YSI 556 MPS multi-meter. Development was conducted at each well until field water quality measurements (pH, oxidation/reduction potential [ORP], electrical conductivity [EC], temperature, turbidity, and dissolved oxygen [DO]) exhibited stability or a minimum of ten (10) well volumes were purged from the well as recharge conditions allowed. Field parameters were documented on well development records, which are included in **Attachment B**.

3.3.3 Groundwater Well Baseline Sampling and Analysis

The groundwater samples were sampled twice, once on July 6, 2018, following a minimum rest period of 48 hours after development, and again in October 3, 2018. During each sampling event, each well was probed for groundwater depth, the presence of oil, purged using a low-flow method, and sampled for laboratory analysis. Prior to measuring depths to water with an oil/water interface probe, the water levels were allowed to equilibrate such that two (2) consecutive measurements within ± 0.05 ft were achieved. No product was detected prior or during the sampling event. Measured depth to groundwater and calculated elevations are presented in **Table 2**.

Wells BR11-1GW01 and BR11-1GW03 were purged under low-flow protocols using a 2-inch Grundfos® MP1-2 submersible pump with controller and a flow-through cell equipped with a YSI 556 MPS multi-meter. Initial purging of BR11-1GW02 well was conducted using the submersible pump. However, due to a relatively small amount of water (3-ft column) at BR11-1GW02 and minimal observed recharge, only one purge volume and set of water quality parameters were able to be collected before sampling the well during each sampling event. During purging, the following field measurements were documented on groundwater sampling records included in **Attachment B**:

- pH
- ORP
- EC
- temperature
- turbidity
- DO

Purging proceeded until measured parameters stabilized (i.e., three [3] consecutive purged water quality parameters within approximately 10 percent of each other) or a total of three calculated purged volumes had been removed. For low yielding well BR11-1GW02, the well was purged once to dryness per QAPP protocols. Following purging, groundwater samples were collected from each well into laboratory-provided containers using the low-flow purging equipment. Samples were labeled with unique identifiers and collection time, and then stored in an ice-chilled cooler until a courier arrived onsite for delivery to the laboratory.

Samples were transported to Enthalpy under chain-of-custody protocols and analyzed for:

- TPH-g by EPA Test Method 8015
- TPH-d and TPH-mo with and without SGC by EPA Test Method 8015
- BTEX by EPA Test Method 8021
- PAHs by EPA Test Method 8270
- Total dissolved solids by SM 2540C

Next groundwater monitoring events are scheduled for January and April 2019.

3.3.4 Groundwater Monitoring Well Survey

Towill, a California-licensed land surveyor, surveyed the northings and eastings, and elevation of installed soil borings and top of the casing of installed groundwater monitoring wells on July 6, 2018. The coordinate surveyed was conducted based on the California State Plane Coordinate System of 1983 (CCS83), Zone 3. The elevation survey was based on the North America Vertical Datum of 1988 (NAVD 88). Well survey information is presented in **Table 1**. A copy of the survey plan is included in **Attachment E**.

3.3.5 Deviations from Work Plan

Unanticipated conditions encountered during the course of the groundwater investigation required certain elements of the work plan be modified, including:

- Grab groundwater samples were intended to be collected from BR11-1SB014 and BR11-1SB020, but groundwater was not encountered during the advancement of these borings.
- The wells designated as BR11-1GW02 and BR11-1GW03 in the *Supplemental Work Plan* were re-designated as BR11-1GW03 and BR11-1GW02, respectively. Installed BR11-1GW01 is in the front yard of Building 127B, installed BR11-1GW02 is in the front yard of Building 128A, and installed BR11-1GW03 is in the backyard of Building 127A.

3.4 Investigation Derived Waste

Drilling equipment was decontaminated with a pressure washer prior to drilling work at each soil boring location. Decontamination water, soil cuttings generated during soil boring and well installations, and purged water from well development and sampling were containerized in 55-gallon drums and transported to the Presidio Central Magazine storage area pending transportation and off-site disposal facility. Nine (9) drums containing soil and three (3) drum containing water were transported and disposed off-site as non-hazardous waste by Big Sky Enterprises at their facility in Benicia, California. A copy of the non-hazardous waste manifest is included as **Attachment C**.

4.0 ANALYTICAL RESULTS

TPH-d is the primary COC detected in collected soil and groundwater samples above current Tier 1 ESLs. TPH-d detections above ESL were reported in soil samples from three soil borings, three grab groundwater samples, and one monitoring well sample. Analytical results from collected soil samples are summarized in **Table 3** and **Table 4**, groundwater results are summarized in **Table 5** and **Table 6**, and laboratory reports associated with the investigation are included as **Attachment D**.

4.1 Soil Analytical Results

At the southeastern corner of Building 127B, soil samples from boring BR11-SB010 had reported TPH-d concentrations exceeding the Tier 1 and Residential ESL of 230 mg/kg, ranging from 2,200 to 18,000 mg/kg in samples collected between 5 and 25 ft bgs. Samples collected at 30 and 35 ft bgs were below reporting limits or below the ESL, respectively. TPH-g was also detected exceeding the Tier 1 ESL of 100 mg/kg, but below Residential ESL of 740 mg/kg, ranging from 120 to 170 mg/kg in samples collected from 15 to 20 ft bgs. Similar to TPH-d detections, the TPH-g detections quickly drop to non-detect in subsequent samples down to 35 ft bgs. Soil samples to the west, south, and east of BR11-SB010, collected during the investigation contained no detections of TPH-d exceeding the Tier 1 ESL at any of the collected depths. Soil samples from boring BR11-

SB018 to the north had reported TPH-d concentrations ranging from 980 to 2,200 mg/kg between 7 and 15 ft bgs, detected concentrations were below ESLs from 20 to 35 ft bgs (total boring depth). The final TPH-d detection above Tier 1 ESL was reported at BR11-1SB016, to the northeast of Building 127A, in its soil sample from 15 ft bgs at concentration of 290 mg/kg. TPH-d results of soil samples collected at 3 ft bgs from these three boring locations (BR11-SB010, BR11-SB016, and BR11-1SB010) were all below Tier 1 ESL. The remaining soil samples collected during the investigation, to the north, northeast, and east of Building 128A, reported estimated TPH detections below reporting limits through the entire boring depth. Soil analytical results are presented in **Figures 3A and 3B** and **Tables 3 and 4**.

4.2 Groundwater Analytical Results

TPH-d concentrations exceeding the Tier 1 ESL of 100 µg/L were found in groundwater encountered between 27 and 57 ft bgs to the southeast and northeast of Building 127A and southeast of Building 128A. Grab water samples from this investigation with TPH-d results in excess of the Tier 1 ESL include samples BR11-1SB012(W) (140 µg/L at 24 ft bgs), BR11-1SB015(W) (130 µg/L at 39.5 ft bgs), BR11-1SB017(W) (470 µg/L at 39 ft bgs). Reported TPH-d concentrations in groundwater monitoring well ranged from 24 µg/L (estimated detection) to 66 µg/L in BR11-1GW01, non-detect (<50 µg/L) to 230 µg/L in BR11-1GW02, and 50 µg/L to 130 µg/L in BR11-1GW03. TPH-d detections were non-detect (<50 µg/L) for samples analyzed using silica gel cleanup (SCG). The TPH-d detections are attributed to biogenic hydrocarbons or petroleum metabolites and a further review of the TPH-d detection is presented in Section 5.2.

A TPH-g concentration of 110 µg/L was reported above the Tier 1 ESL of 100 µg/L (Odor Nuisance) but below the MCL Priority screening levels of 220 µg/L in grab groundwater sample BR11-1SB012(W) as was a TPH-mo concentration of 360 µg/L above the MCL Priority screening level of 150 µg/L. No other TPH-g or TPH-mo reported detections exceeded screening levels.

Naphthalene was detected at a concentration of 0.40 µg/L at BR11-1SB012(W) and 0.20 µg/L at BR11-1SB017(W), above the Tier 1 and MCL Priority ESL of 0.17 µg/L. No other PAHs were detected at concentrations exceeding respective ESLs.

Total dissolved solids results for samples collected from groundwater wells ranged from 420 mg/L to 960 mg/L and are within the range of secondary MCL of 500 to 1,000 mg/L.

Groundwater analytical results are presented in **Figure 4** and in **Table 5** and **Table 6**.

5.0 SOIL AND GROUNDWATER IMPACTS DELINEATION

The detected TPH-d and TPH-g concentrations in soil and groundwater above the Tier 1 ESL as described in Section 4 indicate residual impacts of the fuel oil release from Section BR11-1 are limited to beneath buildings 127A and 127B, their front yards, and beneath 128A along the alignment of the former FDS lateral.

5.1 Soil Impact Delineation

The vertical and lateral extent of residual soil impacts for each building is as follows:

- **Building 127A:**

- **Soil:** The lateral extent of residual soil impacts above Tier 1 ESL are confined to beneath the building footprint and to the southwest (front yard) along the former FDS lateral. The lateral extents of residual soil impacts in the front yard are bounded by borings SB016 and SB017, to the northeast by SB015 and to the north by GW03 with low or estimated TPH-d detections through the entire depth of the borings. The vertical extent of TPH-d impacts within the defined lateral extents is from 5 to 20 ft bgs. Cross-sections have been created for the subsurface lithology below Building 127A; please see **Figure 3A** for an aerial extent of soil impacts and **Figure F-1** and **F-3 (Attachment F)** for a transect and cross-section, respectively, which show the vertical extent of soil impacts.

- **Building 127B:**

- **Soil:** The lateral extent of residual soil impacts above Tier 1 ESL are confined to beneath the building footprint and to the southeast (front yard) along the former FDS lateral. The lateral extents of residual TPH-d and TPH-g soil impacts in the front yard are bounded by borings SB007, SB011, SB012, and GW01, to the south by SB013, and to the southwest and west by SB005 and SB014 with low or estimated TPH-d and estimated TPH-g detections through the entire depth of the borings. The vertical extent of TPH-d impacts within the defined lateral extents is from 5 to 30 ft bgs and TPH-g from 15 to 20 ft bgs. Based on ground water monitoring data, the residual soil contamination southeast of the building does not appear to be mobile nor has resulted in groundwater impacts beyond the localized impacts detected in grab sample SB004. Please see **Figure 3A**, which includes the aerial extent of soil impacts and includes borings 127BEX115 and 127BEX102. In addition, see **Figures F-1** and **F-2** for a transect and cross-section, respectively, which show the vertical extent of soil impacts.

- **Building 128A:**

- **Soil:** The lateral extent of residual soil impacts above Tier 1 ESL are confined to beneath the building footprint and along the abandoned-in-place FDS lateral. Soil borings SB009 to the west, SB019 to the north, SB020 to the northeast, and GW02 to the southeast along the former FDS lateral contained estimated TPH-d concentration through the entire depth of the boring. The vertical extent of TPH-d impacts beneath the building concrete foundation are from 1 to over 6 ft bgs. Please see **Figure 3B** for an aerial extent of soil impacts and **Figure F-1** and **F-3** for a transect and cross-section, respectively, which show the vertical extent of soil impacts.

- **Tank 127:**

- **Soil:** The tank was removed in 1978 and received a NFA from the RWQCB in 2013. The NFA concurrence was based on a review of historical records and observations during renovations of the building and landscape areas conducted over the years since the tank was removed - all indicating no significant residual petroleum impacts in the vicinity of the former Tank 127. This conclusion is further supported by soil and groundwater investigations conducted to date. Of note, a soil sample collected by the Army during FDS removal resulted in a low of 8.1 mg/kg TPH-d as documented in the May 1999 IT FDS Closure Report, Volume III. in. The soil sample was collected from a depth of 6 feet below ground surface, at the southwest end of the former FDS segment BR11-1 and adjacent to the former Tank 127 location. Furthermore, the recent investigation results for soil borings southwest of Building 127B (BR11-1SB011, BR11-1SB012, and SB007), between the former Tank 127 location and the identified impacts in the front yard, were all reported below the current Tier 1 ESLs for TPH-g, TPH-d, and TPH-mo. Similarly, grab groundwater results from BR11-1SB012 for TPH-g and TPH-d are within those considered to be naturally organic compounds. These results indicate that potential historic impacts from the former UST are limited in extent and have not migrated to these sample locations.

Soil investigation results did not indicate the existence of additional sources of contamination aside from the already identified FDS lateral. No identified soil impacts reach known storm drain utility lines located at the Site. Known storm drain utility lines at the Site and surrounding areas are presented in **Figure 5**.

5.2 Groundwater Impact Delineation

Analytical results for grab and monitoring well groundwater samples collected during the supplemental investigation in July 2018 and subsequent quarterly sampling in October 2018 showed minor TPH-d, TPH-g and TPH-mo detections in the groundwater beneath the Site. To further investigate the nature of reported TPH-d detections in installed monitoring wells, the collected groundwater samples were analyzed using SGC with non-detect (<50 µg/L) results for all analysis. Review of laboratory chromatograms of non-SGC TPH-d analysis for monitoring well samples exhibited a notable absence of an unresolved complex mixture (UMC) typical of petroleum hydrocarbon mixtures with detections in each fraction reported were due to select peaks and not pattern of peaks expected for petroleum hydrocarbons. Similarly, the non-SGC TPH-d reported detections in the grab groundwater samples were qualified by the laboratory as exhibiting unknown single peaks with chromatograms not resembling standard. Based on the results using SGC and review of the laboratory data, reported detections of TPH-d in collected grab and monitoring well samples do not appear to be petroleum hydrocarbon and are likely due to naturally occurring biogenic hydrocarbons or petroleum metabolites. The initial groundwater monitoring well results and analysis indicate that groundwater beneath the Site has not been significantly affected by petroleum hydrocarbons from the historic fuel oil release

beyond the localized impacts southeast of Building 127B. Currently, the reported TPH-d, TPH-g and naphthalene in groundwater in excess of MCL Priority screening levels do not represent a threat to human health and are below their respective Aquatic Habitat Goal ESLs. Groundwater quality will continue to be monitored during quarterly groundwater monitoring sampling events scheduled for January and April 2019. See **Figure 4** for an aerial extent of groundwater impacts, analytical results presented in call-out tables for each location sampled, and a potential NAPL zone along the transect of the historic FDS line southwest of Building 127B; the analytical data presented on the figure includes TPH-d, TPH-g, TPH-mo, and TPH-bc.

In summary, the groundwater investigations concluded the COC impacts reported above Tier 1 ESLs are limited to TPH-d at locations SB004 and GW01. Although TPH-d was detected in samples from several other downgradient well locations (e.g. GW02, GW03, SB015, and SB017), based on technical reviews of the sample chromatographs (and with concurrence from the RWQCB's Technical Specialist), the analytical results indicate the TPH-d concentrations are due to natural background/biogenic sources, rather than releases from the former FDS; these results are referenced on Figure 4 by the use of superscripts "Y" and "Z" to denote the source.

As mentioned previously, the first encountered groundwater in the vicinity of SB004 and adjacent monitoring well GW01 likely represents a localized zone of perched groundwater at approximately 23 to 27 feet below ground surface (fbg). Borings 20 to 25 feet east and southeast (SB013 and SB014) of SB004 did not encounter the perched groundwater body. Likewise, borings performed on the north side of Building 127 did not encounter groundwater until approximately 34 fbg at GW03, and approximately 41 fbg at SB015 and SB017. This suggests that the perched groundwater near SB004 is limited in extent. These observations also support the conclusion that residual TPH observed at SB004 is not mobile. TPH-impacted groundwater is not likely to travel within the upper, weathered bedrock beneath the total depth of SB017 and SB015 because significant TPH impacts are not observed at well GW03, which is screened across the contact with the Franciscan Complex bedrock. Well GW03 is also located due north of SB004, which is in the direction of the regional groundwater flow. Furthermore, the weathered bedrock that was encountered in borings SB010, SB012, and SB013, and wells GW01 and GW03 contained low permeability clays within the fractures, which is not conducive to groundwater flow.

Contaminant transport from perched, secondary source groundwater, such as at locations SB004 and SB010, have not been observed to be migrating down through the vadose zone to the sand-bedrock interface, and ultimately down-gradient along the north-sloping interface. This potential contaminant transport pathway does not appear to be complete because significant TPH impacts have not been detected in wells GW02 and GW03, which are screened downgradient along the north-sloping bedrock interface and would likely intercept the migration of contaminated secondary source groundwater from perched locations such as SB004 and SB010.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the supplemental investigation results, along with previously conducted investigations, the following conclusions and recommendations with respect to the TPH-d release associated with the FDS line are presented:

- The lateral and vertical extent of COCs in soil has been determined.
- Residual TPH-d in soil in the interior of building 127B does not currently represent a human health risk as a minimum of one (1) foot of clean soil has already been placed over impacted soil and the basement is secured and not accessible to the public. Future risk will be mitigated by the reconstruction of the concrete basement floor as a barrier to isolate the impacted soil eliminating direct contact.
- Residual TPH-d in soil beneath Buildings 127A (presumed) and 128A does not represent a human health risk as the existing concrete basement floor prevents direct contact by future and current tenants.
- Residual TPH-d in soil exterior to 127A and 127B does not present a human health risk as they are located at depth (starting at 5 ft bgs) and generally are not accessible to human contact. Soil intrusion activities such as digging and planting by residents are prohibited per lease agreements. Maintenance work involving soil disturbance by the Trust or others is subject the Trust Dig Permit review and approval process.
- Residual TPH-d in soil appears to be localized, not mobile, and resulted in only localized groundwater impacts southeast of Building 127B.
- The lateral and vertical extent of COCs in groundwater has been determined.
- Groundwater impacts have been delineated and are limited to perched lenses in the vicinity of SB004 and GW01.
- Migration of impacted source and secondary source groundwater is limited due to discontinuous and/or perched groundwater bodies.
- Groundwater detections during the supplemental investigation consisted of petroleum metabolite and/or biogenic hydrocarbon.

The soil investigation results have effectively defined the extents of impacts to the southeast of Buildings 127A and 127B and confirm no soil impacts southeast of Building 128A. The proposed remedial action to address the identified soil impact is capping and implementation of institutional controls (i.e., land use control or land used notification area) and administrative controls for in-place management. A description of the proposed remedy to address soil impacts and potential soil vapor intrusion will be presented in a

Feasibility Study/Corrective Action Plan currently under preparation and to be submitted under separate cover.

Groundwater investigation results reported TPH-d as the primary COC petroleum-based contaminant reported above Tier 1 ESLs; reported at locations SB004 and GW01. Although TPH-d was detected in samples from several other downgradient well locations (e.g. GW02, GW03, SB015, and SB017), based on technical reviews of the sample chromatographs, the analytical results indicate the elevated TPH-d concentrations are due to natural background/biogenic sources, rather than releases from the former FDS; these results are referenced on Figure 4 by the use of superscripts “Y” and “Z” to denote the source.

The single and minor detections of TPH-g and naphthalene during the supplemental investigation do not represent a significant impact to groundwater quality. Groundwater quality long term trend and seasonal variations will continue to be assessed via the installed groundwater wells BR11-1GW01, BR11-1GW02 and BR11-1GW03 during future groundwater sampling events with an expected annual frequency.

Although no free product was collected or sampled, it was noted as a possible observation in the boring log for SB010 and based on elevated concentrations of TPH-d at locations SB004 and SB010, the likelihood for non-aqueous phase liquids (NAPL) to exist in the vicinity of these locations is possible. Additional groundwater monitoring will continue to monitor for the possible presence of free product.

Site closure is not being requested at this time. Further evaluations of groundwater impacts will continue via periodic monitoring at existing monitoring wells BR11-1GW01, BR11-1GW02 and BR11-1GW03.

The next phase of work for the site is to complete a Feasibility Study/Corrective Action Plan, which will focus on evaluating corrective action alternatives to mitigate identified impacts, including secondary sources (groundwater, soil, and soil vapor) and ensure long-term protection of human health.

7.0 REFERENCES

California Regional Water Quality Control Board (RWQCB). 2009. *No Further Action, Fuel Distribution System, FDS Closure Certification Report Phase I, Presidio of San Francisco, San Francisco County, Water Board Case No. 38D9327*. September 16.

RWQCB. 2013. *No Further Action for Priority Tanks, Submittal No. 1, Presidio of San Francisco, San Francisco County*. January 3.

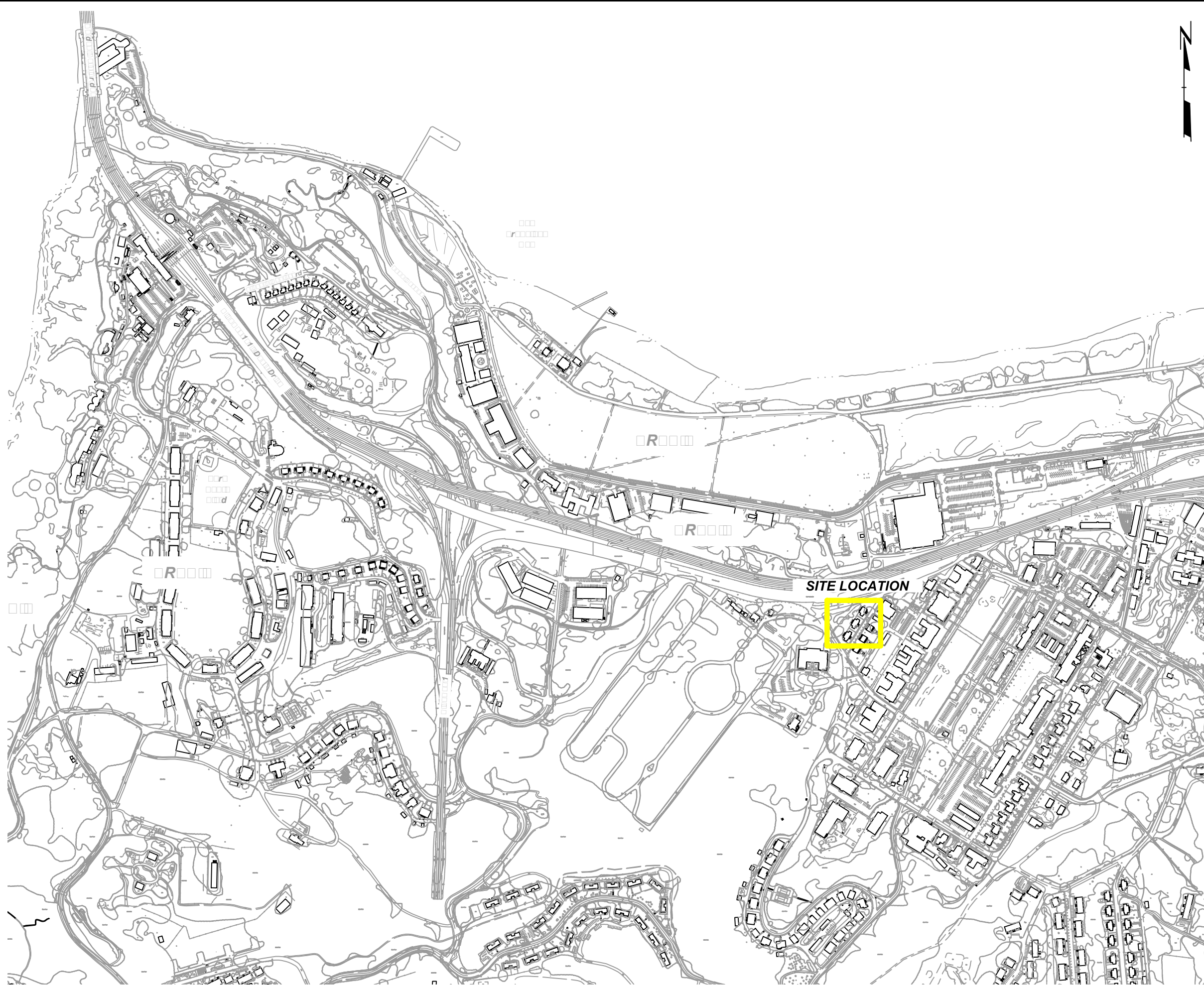
RWQCB. 2019a. *Regional Water Board Review of Supplemental Site Investigation Report, Fuel Distribution System Section BR11-1, Riley Avenue, dated November 7, 2018, Presidio of San Francisco*. January 3.

-
- RWQCB. 2019a. *Regional Water Board Review of the Nov. 7, 2018 Supplemental Site Investigation Report and March 6, 2019, DRAFT Responses to Comments, Fuel Distribution System Section BR11-1, Riley Avenue Site, Presidio of San Francisco.* June 19.
- RWQCB. 2019c. *Environmental Screening Levels (Rev. 1).* January 2019.
http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml
- RWQCB. 2017a. *Presidio Trust – Re-Opening of Closed Case, FDS Section BR 11-1.* Email message to Nina Larssen. July 20.
- RWQCB. 2017b. *Review of Interim Update, Results of Site Investigation - BR11-1 Fuel Distribution System, Riley Avenue, Presidio Trust of San Francisco, San Francisco, California, dated October 30, 2017, and Water Code Section 13267 Technical Report Requirements.* November 29.
- RWQCB. 2018a. “Re: *BR11 Revised Addendum 2 Supplemental Soil and GW Work Plan, FDS, Riley Avenue, Presidio of San Francisco, dated May 3, 2018*” email from Jeff White (RWQCB) to Nina Larssen (Presidio Trust). May 10.
- RWQCB. 2018b. *Review of Addendum 2 – Section BR11-1 Supplemental Site Investigation Work Plan, Fuel Distribution System, Riley Avenue, Presidio of San Francisco, San Francisco, San Francisco County.* January 12.
- RWQCB. 2018c. “Re: *Riley Avenue – BTEX and PAH Soil Analysis Suspension Request*” email from Jeff White (RWQCB) to Nina Larssen (Presidio Trust). May 3.
- Erler & Kalinowski, Inc. (EKI). 2002. *Development of Presidio-Wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water, Presidio of San Francisco, California.* 2002. Updates through 2013.
- EKI. 2004. *Petroleum Contingency Plan, Presidio of San Francisco, California.* August 16.
- IT Corporation. 1999. *Fuel Distribution System Closure Report, Presidio of San Francisco, California.*
- The Presidio Trust. (Trust). 2010. Request for *No Further Action (NFA), Priority 8 Tanks, Submittal No. 1, Presidio of San Francisco, California.* September 13.
- Tetra Tech EMI, Inc. (Tetra Tech). 2001. *Presidio-Wide Quality Assurance Project Plan, Sampling and Analysis Plan, Presidio of San Francisco, San Francisco, California.* April.

-
- TRC Solutions, Inc. (TRC). 2017a. *DRAFT Section BR11-1 Investigation Work Plan Fuel Distribution System, Riley Avenue, Presidio Trust of San Francisco, San Francisco, California*. September 14.
- TRC. 2017b. *DRAFT Site Specific Health & Safety Plan, Site Investigation, FDS Section BR11-1 Investigation, Riley Avenue, Presidio of San Francisco, San Francisco, California*. September 27.
- TRC. 2017c. *Interim Update, Results of Site Investigation - BR11-1 Fuel Distribution System, Riley Avenue, Presidio Trust of San Francisco, San Francisco, California*. October 30.
- TRC. 2017d. *Addendum 1, Section BR11-1 Vapor Intrusion Assessment Work Plan and Interim Mitigation Plan, Fuel Distribution System, Riley Avenue, Presidio Trust of San Francisco, San Francisco, California*. December 20.
- TRC. 2018a. *Revised Addendum 2 Section BR11-1 Supplemental Site Investigation Work Plan, Fuel Distribution System, Riley Avenue, Presidio Trust of San Francisco, San Francisco, California*. May 3.
- TRC. 2018b. *Addendum to Vapor Intrusion Assessment Work Plan and Interim Mitigation Plan (VI Work Plan) in Response to RWQCB Comments, Section BR11-1 Fuel Distribution System, Riley Avenue, Presidio of San Francisco, San Francisco, California*. January 19.
- TRC. 2018c. *Request for Final Concurrence – No Soil Vapor Intrusion Risk and No Further Action Determination, Buildings 128B and 129A Riley Avenue, Fuel Distribution System Section BR11-1, Presidio of San Francisco, San Francisco, California*. June 7.
- TRC. 2018d. *Request for Final Concurrence – No Soil Vapor Intrusion Risk and No Further Action Determination, Buildings 128A and 129B Riley Avenue, Fuel Distribution System Section BR11-1, Presidio of San Francisco, San Francisco, California*. August 3.
- TRC. 2018e. *Request for Final Concurrence – No Soil Vapor Intrusion Risk and No Further Action Determination, Building 127A Riley Avenue, Fuel Distribution System Section BR11-1, Presidio of San Francisco, San Francisco, California*. August 17.
- TRC. 2018f. “Re: Riley Avenue – Soil and GW Investigation Work Stoppage” email from Alfonso Ang (TRC) to Jeff White (RWQCB). June 6.

FIGURES

1x17 - USER: kornell - ATTACHED REFS: Presidio, Plans, Roads, BLDGS ONLY, REV, Lendum Q. - ATTACHED IMAGES: DRAWING NAME: N:\Shared\CAD_DRAWING\Current\Presidio - Riley Ave Supplemental Site Investigation July 19\Fig1 Vicinity Map_REV JULY19.dwg --- PLOT DATE: July 16, 2019 - 8:29AM --- LAYOUT: 11X17L
Version: 2017-10-21




LEGEND



SITE LOCATION


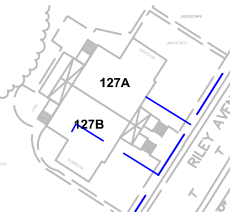



PROJECT:		THE PRESIDIO TRUST BR11-1 FUEL DISTRIBUTION SYSTEM RILEY AVENUE, SAN FRANCISCO, CALIFORNIA	
TITLE:		VICINITY MAP	
DRAWN BY:	K. LI	PROJ NO.:	285830.000002.TASK04
CHECKED BY:	A. ANG	FIGURE 1	
APPROVED BY:	A. ANG		
DATE:	AUGUST 2018		
		505 Sansome Street Suite 1600 San Francisco, CA 94111 Phone: 415.434.2600	
		FILE NO.: Fig1 Vicinity Map.dwg	

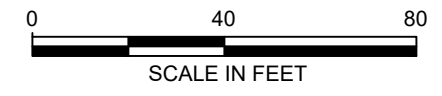
1x17 - USER: kqamall - ATTACHED: REFS: MASTER Presidio Planimetrics, New Dots Alignment -- ATTACHED IMAGES:
 DRAWING NAME: N:\Shared\CAD_DRAWING\Current\Presidio - Riley Ave Supplemental Site Investigation_July 19\Fig2 Site Map_REV JULY19.dwg -- PLOT DATE: July 16, 2019 - 8:34AM -- LAYOUT: 11X17L
 Version: 2017-10-21




LEGEND

-  FORMER BR11-1 FDS LINE
-  RESIDENTIAL UNITS
-  LOCATION OF HISTORIC UNDERGROUND FUEL TANK PSF-127 (REMOVED 1978 - WES, 1990; MW, 1992)

- NOTES**
1. REFERENCES
 - 1.1. US ARMY ENGINEERS WATERWAYS EXPERIMENT STATION (WES), 1990. PHASE II PRELIMINARY ASSESSMENT UST DATA SHEETS, UST LOCATIONS AND STATUS ASSESSMENT UST/FDS 162. MARCH 1990.
 - 1.2. MONTGOMERY WATSON (MW), 1992. UST MANAGEMENT PLAN.



PROJECT:		THE PRESIDIO TRUST BR11-1 FUEL DISTRIBUTION SYSTEM RILEY AVENUE, SAN FRANCISCO, CALIFORNIA	
TITLE:		SITE MAP	
DRAWN BY:	K. LI	PROJ NO.:	285830.04A.02
CHECKED BY:	A. ANG	FIGURE 2	
APPROVED BY:	A. ANG		
DATE:	JULY 2019		
		505 Sansome Street Suite 1600 San Francisco, CA 94111 Phone: 415.434.2600	
		FILE NO.:	Fig2 Site Map_REV JULY19.dwg

11x17 - ATTACHED REFS: MASTER Presidio, Planimeter, New Date Alignment - ATTACHED IMAGES: DRAWING NAME: X:\Current\Presidio - Riley Ave\Supplemental Site Investigation_July19\Fig3A_Soil Sampling Locations_REV JULY19.dwg -- PLOT DATE: July 15, 2019 - 4:14PM -- LAYOUT: 11X17L
 Version: 2017-07-21

EXCAVATED AREA SOIL SAMPLES				
SAMPLE ID	DEPTH (FT)	TPH-g	TPH-d	TPH-mo
127BEX101	1.0	56 Y	1200	< 250
127BEX102	1.0	64 Y	2800	< 500
127BEX104	1.0	22 Y	3200	< 250
127BEX104	2.0	27 Y	3200	220 Y
127BEX105	1.0	11 Y	1900	140 Y
127BEX106	1.0	3.5 Y	350	36 Y
127BEX107	1.0	21 Y	2000	170 Y
127BEX108	1.0	37 Y	3900	360 Y
127BEX109	1.0	< 0.98	1.8 Y	< 5.0
127BEX111	3.0	11 Y	980	80 Y
127BEX111	5.0	29 Y	490	< 50
127BEX112	1.0	< 0.96	< 1.0	< 5.0
127BEX112	3.0	1.1 Y	< 0.99	< 5.0
127BEX112	5.0	< 1.0	< 0.99	< 5.0
127BEX113	1.0	9.9 Y	1900	150 Y
127BEX113	3.0	4.4 Y	170	18 Y
127BEX113	5.0	17 Y	610	52 Y
127BEX113	7.0	20 Y	2200	190 Y
127BEX114	3.0	24 Y	2400	180 Y
127BEX114	5.0	20 Y	1100	89 Y
127BEX114	7.0	41 Y	1700	130 Y
127BEX115	1.0	49 Y	590	52 Y

BR11-1SB014				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	0.027 J	1.2 J,Y	4.0 J	
5.0	0.020 J	0.66 J,Y	< 6.1	
7.0	0.022 J	0.72 J,Y	2.0 J	
10.0	0.019 J	28 Y	96	
15.0	0.010 J	3.0 Y	< 5.8	
20.0	0.0087 J	2.9 Y	8.1	
20.0 (DUP)	0.012 J	0.46 J,Y	< 5.9	
25.0	0.014 J	0.47 J,Y	< 5.4	

SB004				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
1.0	0.047 J	12 Y	41	
5.0	0.039 J	46 Y	19	
10.0	14 Y	1000	86 Y	
15.0	18 Y	790	65 Y	
15.0 (DUP)	25 Y	820	64 Y	
20.0	2.5 Y	8200	640 Y	
25.0	0.039 J	4.8 Y	< 5.9	
27.0	180 Y	12000	950 Y	

BR11-1SB013				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	0.014 J	0.84 J,Y	< 6.0	
5.0	0.017 J	0.67 J,Y	< 6.0	
7.0	0.013 J	0.48 J,Y	< 5.9	
10.0	0.022 J	0.80 J,Y	< 5.8	
15.0	0.0084 J	0.93 J,Y	< 5.8	
20.0	0.0099 J	0.99 J,Y	< 6.0	
25.0	0.015 J	0.82 J,Y	< 5.9	
30.0	0.022 J	0.39 J,Y	< 5.5	
35.0	0.020 J	2.2 Y	7.0 Y	
40.0	0.021 J	1.4 Y	1.7 J,Y	
40.0 (DUP)	0.029 J	0.40 J,Y	< 5.4	
45.0	0.021 J	< 1.1	< 5.6	
50.0	0.030 J	0.69 J,Y	< 5.8	

SB005				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
1.0	0.061 J	14 Y	48	
5.0	0.039 J	1.2 J,Y	12 Y	
10.0	0.013 J	0.48 J,Y	< 5.8	
15.0	0.012 J	0.84 J,Y	< 5.7	
15.0 (DUP)	0.03 J	< 1.2	< 5.9	
20.0	0.012 J	0.96 J,Y	< 5.8	
25.0	0.014 J	1.7 Y	< 6.0	
29.0	0.022 J	6.4 Y	< 5.5	

SB006				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
1.0	0.0091 J	6.4 Y	35	
5.0	1.7 Y	930	83 Y	
5.0 (DUP)	16 Y	900	85 Y	
10.0	6.4 Y	2700	180 J,Y	
15.0	5.2 Y	1300	85 J,Y	
20.0	0.096 J	29 Y	2.6 J	
20.0 (DUP)	0.13 J	68 Y	8.1	
25.0	0.071 J	0.53 J,Y	< 5.9	
30.0	0.025 J	0.58 J,Y	< 5.9	

BR11-1SB012				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	0.033 J	1.2 Y	6.5 Y	
5.0	0.017 J	0.58 J,Y	< 5.9	
7.0	0.028 J	0.43 J,Y	< 5.9	
10.0	< 0.17	1.3 Y	3.9 J	
15.0	0.028 J	2.0 Y	< 5.9	
20.0	0.033 J	0.88 J,Y	1.8 J	
25.0	0.034 J	0.90 J,Y	< 5.9	
25.0 (DUP)	0.022 J	0.92 J,Y	< 5.8	
30.0	0.040 J	0.97 J,Y	< 5.8	
35.0	0.018 J	0.55 J,Y	< 6.0	
40.0	0.025 J	3.6 Y	< 5.3	
45.0	0.022 J	4.0 Y	11	
50.0	0.022 J	1.9 Y	3.9 J	

SB002				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
1.0	0.027 J	0.63 J	< 5.8	
3.0	0.044 J	9.3 Y	< 5.9	
5.0	0.12 J	< 1.2	< 5.9	
7.0	0.041 J	< 1.2	< 5.8	
10.0	0.028 J	< 1.2	< 5.8	
11.5	< 0.18	< 1.2	< 5.8	

BR11-1GW03				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	0.016 J	4.9 Y	18	
5.0	0.020 J	1.4 Y	4.9 J	
7.0	0.016 J	< 1.2	< 5.8	
10.0	0.084 J	0.98 J,Y	2.2 J	
15.0	0.072 J	1.2 Y	4.3 J	
20.0	0.042 J	0.79 J,Y	2.1 J	
25.0	0.014 J	0.42 J,Y	< 5.7	
30.0	0.012 J	0.48 J,Y	< 6.0	
35.0	0.022 J	1.1 J,Y	2.3 J	
35.0 (DUP)	0.016 J	0.70 J,Y	1.8 J	

SB003				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
1.0	50 Y	1400	120 Y	
3.0	45 Y	1500	120 Y	
5.0	50 Y	1600	140 Y	
7.0	60 Y	4100	280 J,Y	
8.0	38 Y	480	48 Y	

BR11-1SB015				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	0.018 J	0.45 J,Y	< 5.9	
5.0	0.022 J	0.47 J,Y	< 6.0	
7.0	0.024 J	0.53 J,Y	< 6.0	
10.0	0.017 J	< 1.2	< 6.0	
15.0	0.011 J	0.49 J,Y	< 5.9	
20.0	0.21 J	1.9 Y,Z	8.5	
25.0	0.013 J	2.5 Y,Z	12	
30.0	0.028 J	2.1 Y	8.7	
35.0	0.032 J	1.0 J,Y,Z	2.8 J	
35.0 (DUP)	0.027 J	0.42 J,Y,Z	< 6.2	
40.0	< 0.17	0.86 J,Y,Z	< 6.0	
45.0	0.025 J	0.39 J,Y	< 6.1	

BR11-1SB016				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	< 0.16	0.78 J,Y	< 6.0	
5.0	0.020 J	1.5 Y,Z	< 6.0	
7.0	0.024 J	2.8 Y	< 5.9	
10.0	0.27 Y	23 Y	3.5 J,Y	
10.0 (DUP)	0.64 Y	120	16	
15.0	5.7 Y	290	34	
20.0	0.18 J	0.82 J,Y	2.5 J	
25.0	0.013 J	1.5 Y	3.3 J	
30.0	0.028 J	4.0 Y,Z	14	
35.0	0.023 J	0.58 J,Y	< 5.9	

SB006				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
1.0	0.0091 J	6.4 Y	35	
5.0	1.7 Y	930	83 Y	
5.0 (DUP)	16 Y	900	85 Y	
10.0	6.4 Y	2700	180 J,Y	
15.0	5.2 Y	1300	85 J,Y	
20.0	0.096 J	29 Y	2.6 J	
20.0 (DUP)	0.13 J	68 Y	8.1	
25.0	0.071 J	0.53 J,Y	< 5.9	
30.0	0.025 J	0.58 J,Y	< 5.9	

BR11-1SB017				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	0.020 J	9.9 Y	20	
5.0	0.020 J	1.2 Y	5.5 J,Y	
7.0	0.022 J	0.83 J,Y	< 5.9	
10.0	0.011 J	0.97 J,Y	< 6.0	
15.0	< 0.15	1.9 Y	< 5.9	
20.0	0.030 J	0.57 J,Y	< 5.9	
20.0 (DUP)	0.034 J	1.0 J,Y	< 5.9	
25.0	0.015 J	0.56 J,Y	< 5.9	
30.0	0.24 J	0.47 J,Y	< 5.9	
35.0	0.026 J	< 1.2	< 5.8	
40.0	0.029 J	0.45 J,Y	< 6.2	

SB001				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	49 Y	760	48 Y	
5.0	27 Y	550	38 Y	
7.0	83 Y	1400	86 Y	

BR11-1SB018				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	0.050 J	35 Y	32	
5.0	0.058 J	36 Y	39	
7.0	3.2 Y	1100	94 Y	
10.0	44 Y	1000	81 Y	
15.0	32 Y	980	82 Y	
15.0 (DUP)	63 Y	2200	160 Y	
20.0	0.096 J,Y	3.8 Y	< 5.7	
25.0	0.036 J,Y	1.2 Y	< 5.9	
30.0	0.036 J	1.3 Y	< 5.9	
35.0	0.034 J	0.69 J,Y	< 6.0	

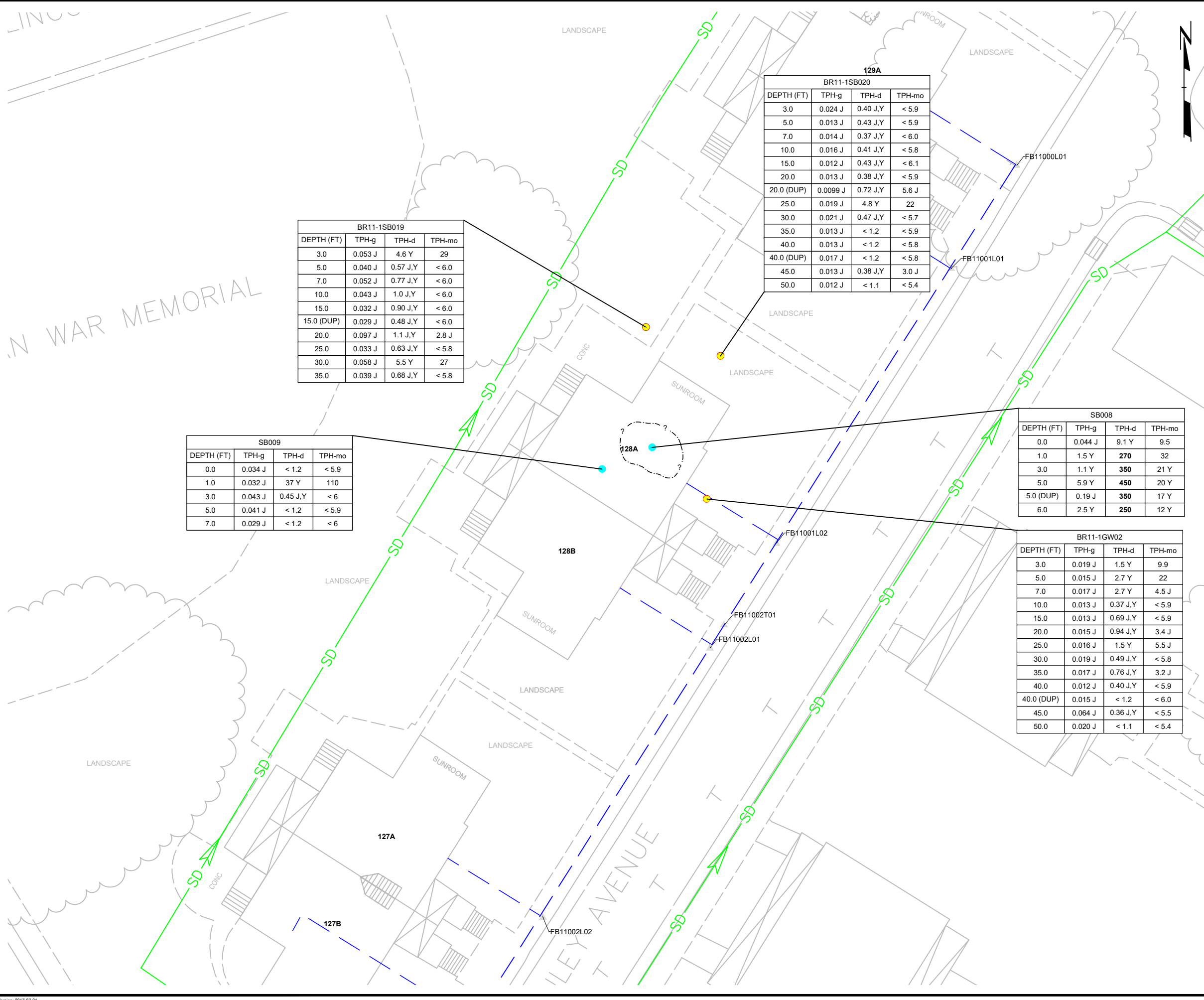
SB007				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
1.0	0.025 J	5 Y	17	
5.0	0.033 J	5 Y	2.6 J	
10.0	0.055 J	44 Y	5.9	
10.0 (DUP)	0.044 J	4.8 Y	< 5.8	
15.0	0.026 J	1.8 Y	< 5.8	
20.0	0.057 J	7.1 Y	2.6 J	
25.0	0.037 J	1.4 Y	2.1 J	
27.0	0.026 J	1.1 J,Y	< 5.8	

BR11-1SB011				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	0.029 J	1.3 Y	8.1	
5.0	0.020 J	1.3 Y	4.2 J	
7.0	0.034 J	0.64 J,Y	< 5.9	
10.0	0.029 J	4.1 Y	15	
15.0	0.018 J	2.0 Y	5.8 J	
20.0	0.065 J	5.8 Y	31	
25.0	0.030 J	1.1 J,Y	5.1 J	
30.0	0.029 J	0.78 J,Y	1.9 J	
30.0 (DUP)	0.11 J	0.42 J,Y	< 5.9	
35.0	0.018 J	0.51 J,Y	< 5.3	

BR11-1SB010				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	0.034 J	110 Y	120	
5.0	66 Y	18000	1600 Y	
7.0	78 Y	4200	340 Y	
10.0	55 Y	2200	180 Y	
15.0	57 Y	3600	290 Y	
15.0 (DUP)	120 Y	7700	620 Y	
17.5	170 Y	10000	880 Y	
20.0	130 Y	15000	1400 Y	
25.0	58 Y	3500	270 Y	
30.0	0.18 J,Y	0.82 J,Y	< 6.0	
35.0	0.048 J	26	2.8 J,Y	

BR11-1GW01				
DEPTH (FT)	TPH-g	TPH-d	TPH-mo	
3.0	0.031 J	0.99 J,Y	5.0 J	
5.0	0.029 J	0.50 J,Y	< 6.0	
7.0	0.022 J	0.45 J,Y	< 5.9	
10.0	0.020 J	0.56 J,Y	< 5.9	
15.0	0.015 J	0.51 J,Y	< 5.9	
20.0	0.043 J	0.65 J,Y	1.9 J	
25.0	0.030 J	5.4 Y	17	
30.0	0.025 J	0.92 J,Y	2.7 J	
30.0 (DUP)	0.047 J	1.2 Y	3.5 J	
35.0	0.034			

1x17 - ATTACHED XREFS: MASTER Presidio Planimetrics, Stormwater, New Dwyer Alignment, STORMSEWER LATEST, M003 - ATTACHED IMAGES:
 DRAWING NAME: X:\Current\Presidio - Riley Ave\Supplemental Site Investigation - July 19\Fig3B Soil Sampling Locations 128 - REV JULY19.dwg --- PLOT DATE: July 15, 2019 - 4:54PM --- LAYOUT: 11X17L
 Version: 2017-07-21



BR11-1SB019			
DEPTH (FT)	TPH-g	TPH-d	TPH-mo
3.0	0.053 J	4.6 Y	29
5.0	0.040 J	0.57 J,Y	< 6.0
7.0	0.052 J	0.77 J,Y	< 6.0
10.0	0.043 J	1.0 J,Y	< 6.0
15.0	0.032 J	0.90 J,Y	< 6.0
15.0 (DUP)	0.029 J	0.48 J,Y	< 6.0
20.0	0.097 J	1.1 J,Y	2.8 J
25.0	0.033 J	0.63 J,Y	< 5.8
30.0	0.058 J	5.5 Y	27
35.0	0.039 J	0.68 J,Y	< 5.8

BR11-1SB020			
DEPTH (FT)	TPH-g	TPH-d	TPH-mo
3.0	0.024 J	0.40 J,Y	< 5.9
5.0	0.013 J	0.43 J,Y	< 5.9
7.0	0.014 J	0.37 J,Y	< 6.0
10.0	0.016 J	0.41 J,Y	< 5.8
15.0	0.012 J	0.43 J,Y	< 6.1
20.0	0.013 J	0.38 J,Y	< 5.9
20.0 (DUP)	0.0099 J	0.72 J,Y	5.6 J
25.0	0.019 J	4.8 Y	22
30.0	0.021 J	0.47 J,Y	< 5.7
35.0	0.013 J	< 1.2	< 5.9
40.0	0.013 J	< 1.2	< 5.8
40.0 (DUP)	0.017 J	< 1.2	< 5.8
45.0	0.013 J	0.38 J,Y	3.0 J
50.0	0.012 J	< 1.1	< 5.4

SB009			
DEPTH (FT)	TPH-g	TPH-d	TPH-mo
0.0	0.034 J	< 1.2	< 5.9
1.0	0.032 J	37 Y	110
3.0	0.043 J	0.45 J,Y	< 6
5.0	0.041 J	< 1.2	< 5.9
7.0	0.029 J	< 1.2	< 6

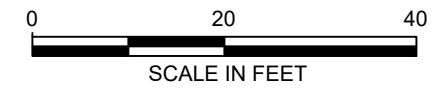
SB008			
DEPTH (FT)	TPH-g	TPH-d	TPH-mo
0.0	0.044 J	9.1 Y	9.5
1.0	1.5 Y	270	32
3.0	1.1 Y	350	21 Y
5.0	5.9 Y	450	20 Y
5.0 (DUP)	0.19 J	350	17 Y
6.0	2.5 Y	250	12 Y

BR11-1GW02			
DEPTH (FT)	TPH-g	TPH-d	TPH-mo
3.0	0.019 J	1.5 Y	9.9
5.0	0.015 J	2.7 Y	22
7.0	0.017 J	2.7 Y	4.5 J
10.0	0.013 J	0.37 J,Y	< 5.9
15.0	0.013 J	0.69 J,Y	< 5.9
20.0	0.015 J	0.94 J,Y	3.4 J
25.0	0.016 J	1.5 Y	5.5 J
30.0	0.019 J	0.49 J,Y	< 5.8
35.0	0.017 J	0.76 J,Y	3.2 J
40.0	0.012 J	0.40 J,Y	< 5.9
40.0 (DUP)	0.015 J	< 1.2	< 6.0
45.0	0.064 J	0.36 J,Y	< 5.5
50.0	0.020 J	< 1.1	< 5.4

LEGEND

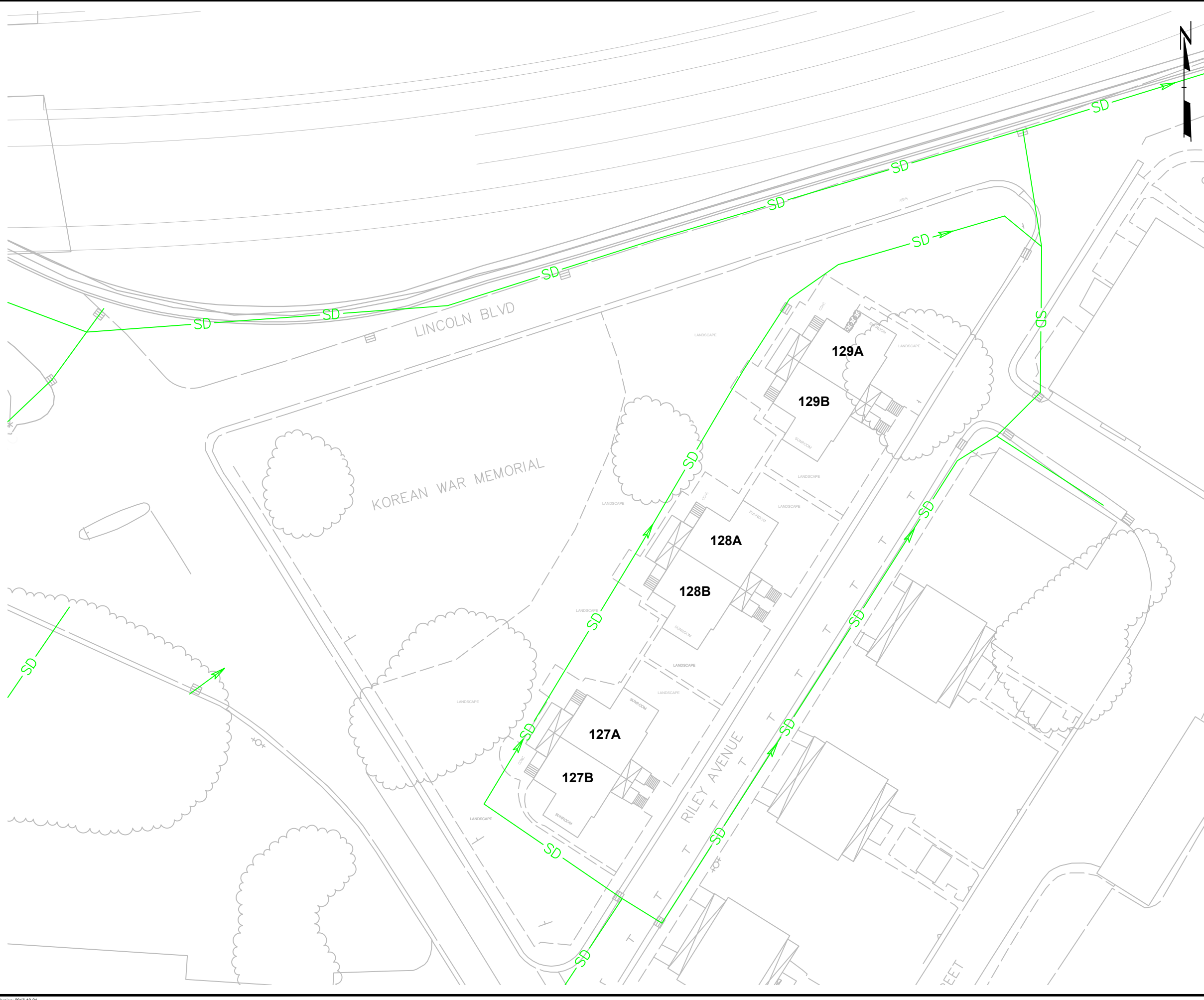
- FORMER BR11-1 FDS LINE
- JULY 2017 REMEDIAL EXCAVATION EXTENTS
- JUNE 2018 SOIL BORINGS
- OCT. 2017 SOIL VAPOR WELL
- APR. 1999 SOIL SAMPLE LOCATIONS
- SD STORM DRAIN
- APPROXIMATE EXTENT OF TPH-D SOIL IMPACTS ABOVE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SCREENING LEVEL OF 260 MG/KG

- ### NOTES
- ALL RESULTS SHOWN IN MILLIGRAMS PER KILOGRAM (MG/KG). **BOLD** VALUES INDICATE REPORTED CONCENTRATION EXCEEDS SCREENING LEVELS.
 - TPH-g = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE.
 - TPH-d = TOTAL PETROLEUM HYDROCARBONS AS DIESEL.
 - TPH-mo = TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL.
 - J = ESTIMATED VALUE.
 - Y = SAMPLE EXHIBITS CHROMATOGRAPHIC PATTERN WHICH DOES NOT RESEMBLE STANDARD.
 - LOCATION OF STORM DRAIN LINES IS APPROXIMATE AND NOT SURVEYED.





PROJECT:		THE PRESIDIO TRUST BR11-1 FUEL DISTRIBUTION SYSTEM RILEY AVENUE, SAN FRANCISCO, CALIFORNIA	
TITLE:		SOIL SAMPLING RESULTS 128	
DRAWN BY:	K. LI	PROJ NO.:	285830.02A.02
CHECKED BY:	L. SHANNON	FIGURE 3B	
APPROVED BY:	L. SHANNON		
DATE:	JULY 2019		
FILE NO.	 505 Sansome Street Suite 1600 San Francisco, CA 94111 Phone: 415.434.2600		

11x17 -- USER: kquinnell -- ATTACHED: REFS: MASTER Presidio Planimetrics, New Data Alignment 07.24.18, STORMSEWER (LATEST) 1/4/03 -- ATTACHED IMAGES:
 DRAWING NAME: N:\Shared\CAD_DRAWING\Current\Presidio - Riley Ave Supplemental Site Investigation July 19\Fig5 Sanitary and Storm Drain Utility Map_REV JULY19.dwg -- PLOT DATE: July 16, 2019 - 8:50AM -- LAYOUT: 11X17L
 Version: 2017-10-21




LEGEND

	SD	STORM DRAIN
		CATCH BASIN

NOTES

1. LOCATION OF STORM DRAIN LINES IS APPROXIMATE AND NOT SURVEYED.



PROJECT:		THE PRESIDIO TRUST BR11-1 FUEL DISTRIBUTION SYSTEM RILEY AVENUE, SAN FRANCISCO, CALIFORNIA	
TITLE:		STORM DRAIN UTILITY MAP	
DRAWN BY:	K. LI	PROJ NO.:	285830.000002.TASK04
CHECKED BY:	A. ANG	FIGURE 5	
APPROVED BY:	A. ANG		
DATE:	AUGUST 2018		
		505 Sansome Street Suite 1600 San Francisco, CA 94111 Phone: 415.434.2600	
		FILE NO.: Fig5 Sanitary and Storm Drain Utility Map_REV JULY19.dwg	

TABLES

Table 1
Well Construction Details
BR11-1 Riley Avenue
Presidio of San Francisco, San Francisco, California

Site Name	Well ID	Installation Date	Northing (ft NAD 83)	Easting (ft NAD 83)	Ground Surface Elevation (ft NAVD 88)	Top of Casing Elevation (ft NAVD 88)	Top of Screen (ft BGS)	Bottom of Screen (ft BGS)	Bottom of Casing (ft BGS)
BR11-1	BR11-1GW01	06/26/18	5995225.395	2119973.762	82.07	81.78	20	35	35
	BR11-1GW02	06/27/18	5995277.360	2120077.010	76.31	76.03	45	60	60
	BR11-1GW03	06/26/18	5995201.905	2120034.060	82.09	81.71	30	45	45

Notes:

Wells were installed using hallow stem auger rig.

Wells were constructed with Schedule (SCH) 80 polyvinyl chloride (PVC) casing with 15-foot 0.010 in. slot prepacked screens.

All borehole diameters are 6-inches.

All casing diameters are 2-inches.

Abbreviations:

ID = Identification

ft = Feet

NAD 83 = North American Datum of 1983, on California Coordinate System, Zone 3

NAVD 88 = North American Vertical Datum of 1988

BGS = Below ground surface

Table 1
Groundwater Level Measurements
BR11-1 Riley Avenue
Presidio of San Francisco
San Francisco, California

Site Name	Boring ID/ Well ID	Date	Depth to Water (feet)	Measured Product (inches)	Top of Casing/Surface Elevation (feet NAVD 88)	Calculated Groundwater Elevation (feet NAVD 88)	
BR11-1 Riley Avenue							
Soil Borings	BR11-1GW01	06/26/18	23.00	None	81.78	58.78	
	BR11-1GW02	06/26/18	52.00	None	76.03	24.03	
	BR11-1GW03	06/26/18	34.00	None	81.71	47.71	
	SB004	10/03/17	27.00	None	82.58	55.58	
	SB005	10/03/17	None (29)	None	82.69	---	
	SB006	10/03/17	None (30)	None	80.17	---	
	SB007	10/03/17	None (37)	None	83.01	---	
	BR11-1SB010	06/28/18	26.00	None	82.50	56.50	
	BR11-1SB011	06/25/18	None (35)	None	82.49	---	
	BR11-1SB012	06/04/18	24.00	None	82.51	58.51	
	BR11-1SB013	06/05/18	None (50)	None	83.80	---	
	BR11-1SB014	06/04/18	None (26)	None	82.96	---	
	BR11-1SB015	06/05/18	41.00	None	79.70	38.70	
	BR11-1SB016	06/06/18	None (35)	None	80.33	---	
	BR11-1SB017	06/05/18	41.00	None	80.51	39.51	
	BR11-1SB018	06/28/18	5.50	None	81.04	75.54	
	BR11-1SB019	06/28/18	None (35)	None	76.97	---	
	BR11-1SB020	06/27/18	None (57.5)	None	75.58	---	
	Groundwater Wells	BR11-1GW01	07/06/18	23.30	None	81.78	58.48
			10/03/18	24.05	None	---	57.73
		01/18/19	24.04	None		57.74	
		04/18/19	21.30	None		60.48	
BR11-1GW02		07/06/18	56.88	None	76.03	19.15	
		10/03/18	57.30	None	---	18.73	
		01/18/19	57.08	None	---	18.95	
		04/18/19	55.40	None		20.63	
BR11-1GW03		07/06/18	34.06	None	81.71	47.65	
		10/03/18	34.28	None	---	47.43	
		01/18/19	34.39	None	---	47.32	
		04/18/19	33.90	None	---	47.81	

Notes:

Wells were installed using hallow stem auger rig.

Wells were constructed with Schedule (SCH) 80 polyvinyl chloride (PVC) casing with 15-foot 0.010 in. slot prepacked screens.

All borehole diameters are 6-inches.

All casing diameters are 2-inches.

Abbreviations:

ID = Identification

NAVD 88 = North American Vertical Datum of 1988

Table 3
Soil Analytical Results - Total Petroleum Hydrocarbons and Volatile Organic Compounds
BR11-1 Riley Avenue
Presidio of San Francisco, San Francisco, California

Sample ID	Depth (ft bgs)	Date	Total Petroleum Hydrocarbons (EPA 8015B)			Volatile Organic Compounds (EPA 8021B)					
			Gasoline	Diesel	Motor Oil	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene	
			Soil (mg/kg)								
127BEX101	1.0	05/11/2017	56 Y	1200	< 250	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
127BEX102	1.0	05/11/2017	64 Y	2800	< 500	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	
127BEX104	1.0	05/24/2017	22 Y	3200	< 250	< 0.0054	0.11 C	< 0.0054	< 0.0054	0.047	
127BEX104	2.0	05/24/2017	27 Y	3200	220 Y	< 0.0048	0.065 C	< 0.0048	< 0.0048	0.022	
127BEX105	1.0	05/24/2017	11 Y	1900	140 Y	< 0.0052	0.053 C	< 0.0052	< 0.0052	< 0.0052	
127BEX106	1.0	05/24/2017	3.5 Y	350	36 Y	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
127BEX107	1.0	05/24/2017	21 Y	2000	170 Y	< 0.0053	< 0.0053	< 0.0053	< 0.0053	0.038 C	
127BEX108	1.0	05/24/2017	37 Y	3900	360 Y	< 0.0053	< 0.0053	< 0.0053	< 0.0053	0.056 C	
127BEX109	1.0	06/01/2017	< 0.98	1.8 Y	< 5.0	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	
127BEX111	3.0	07/05/2017	11 Y	980	80 Y	< 0.0048	0.024 C	< 0.0048	< 0.0048	< 0.0048	
127BEX111	5.0	07/05/2017	29 Y	490	< 50	< 0.0052	0.072 C	< 0.0052	< 0.0052	0.026 C	
127BEX112	1.0	07/05/2017	< 0.96	< 1.0	< 5.0	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	
127BEX112	3.0	07/05/2017	1.1 Y	< 0.99	< 5.0	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	
127BEX112	5.0	07/05/2017	< 1.0	< 0.99	< 5.0	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	
127BEX113	1.0	07/05/2017	9.9 Y	1900	150 Y	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	
127BEX113	3.0	07/05/2017	4.4 Y	170	18 Y	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	
127BEX113	5.0	07/05/2017	17 Y	610	52 Y	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	
127BEX113	7.0	07/05/2017	20 Y	2200	190 Y	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	
127BEX114	3.0	07/05/2017	24 Y	2400	180 Y	< 0.0054	0.054 C	< 0.0054	< 0.0054	0.021 C	
127BEX114	5.0	07/05/2017	20 Y	1100	89 Y	< 0.0046	0.039 C	< 0.0046	< 0.0046	0.019 C	
127BEX114	7.0	07/05/2017	41 Y	1700	130 Y	< 0.0048	0.1	< 0.0048	< 0.0048	0.044 C	
127BEX115	1.0	07/05/2017	49 Y	590	52 Y	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	
SB001	3.0	10/02/2017	49 Y	760	48 Y	< 0.023	0.21	< 0.023	< 0.023	0.072 C	
SB001	5.0	10/02/2017	27 Y	550	38 Y	< 0.02	0.12 C	< 0.02	< 0.02	< 0.02	
SB001	7.0	10/02/2017	83 Y	1400	86 Y	< 0.026	0.35	< 0.026	< 0.026	< 0.026	
SB002	1.0	10/02/2017	0.027 J	0.63 J	< 5.8	< 0.00098	< 0.00098	< 0.00098	< 0.00098	< 0.00098	
SB002	3.0	10/02/2017	0.044 J	9.3 Y	< 5.9	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086	
SB002	5.0	10/02/2017	0.12 J	< 1.2	< 5.9	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	
SB002	7.0	10/02/2017	0.041 J	< 1.2	< 5.8	< 0.00076	< 0.00076	< 0.00076	< 0.00076	< 0.00076	
SB002	10.0	10/02/2017	0.028 J	< 1.2	< 5.8	< 0.00079	< 0.00079	< 0.00079	< 0.00079	< 0.00079	
SB002	11.5	10/02/2017	< 0.18	< 1.2	< 5.8	< 0.00092	< 0.00092	< 0.00092	< 0.00092	< 0.00092	
SB003	1.0	10/02/2017	50 Y	1400	120 Y	< 0.027	< 0.027	< 0.027	< 0.027	0.096 C	
SB003	3.0	10/02/2017	45 Y	1500	120 Y	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	
SB003	5.0	10/02/2017	50 Y	1600	140 Y	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	
SB003	7.0	10/02/2017	60 Y	4100	280 J,Y	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	
SB003	8.0	10/02/2017	38 Y	480	48 Y	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	
SB004	1.0	10/03/2017	0.047 J	12 Y	41	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086	
SB004	5.0	10/03/2017	0.039 J	46 Y	19	< 0.00085	< 0.00085	< 0.00085	< 0.00085	< 0.00085	
SB004	10.0	10/03/2017	14 Y	1000	86 Y	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	
SB004	15.0	10/03/2017	18 Y	790	65 Y	< 0.016	0.023 C	< 0.016	< 0.016	< 0.016	
SB004 DUP	15.0	10/03/2017	25 Y	820	64 Y	< 0.0008	0.02 J	< 0.0008	< 0.0008	0.025 C	
SB004	20.0	10/03/2017	2.5 Y	8200	640 Y	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	
SB004	25.0	10/03/2017	0.039 J	4.8 Y	< 5.9	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	
SB004	27.0	10/03/2017	180 Y	12000	950 Y	< 0.043	< 0.043	< 0.043	< 0.043	0.88 C	
SB005	1.0	10/03/2017	0.061 J	14 Y	48	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB005	5.0	10/03/2017	0.039 J	1.2 J,Y	12 Y	< 0.00075	< 0.00075	< 0.00075	< 0.00075	< 0.00075	
SB005	10.0	10/03/2017	0.013 J	0.48 J,Y	< 5.8	< 0.00082	< 0.00082	< 0.00082	< 0.00082	< 0.00082	
SB005	15.0	10/03/2017	0.012 J	0.84 J,Y	< 5.7	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	
SB005 DUP	15.0	10/03/2017	0.03 J	< 1.2	< 5.9	< 0.00082	< 0.00082	< 0.00082	< 0.00082	< 0.00082	
SB005	20.0	10/03/2017	0.012 J	0.96 J,Y	< 5.8	< 0.00077	< 0.00077	< 0.00077	< 0.00077	< 0.00077	
SB005	25.0	10/03/2017	0.014 J	1.7 Y	< 6	< 0.00088	< 0.00088	< 0.00088	< 0.00088	0.00021 J	
SB005	29.0	10/03/2017	0.022 J	2.4 Y	< 5.5	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	
SB006	1.0	10/03/2017	0.0091 J	6.4 Y	35	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086	
SB006	5.0	10/03/2017	1.7 Y	930	83 Y	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	
SB006 DUP	5.0	10/03/2017	16 Y	900	85 Y	< 0.00083	0.0027 C,J	< 0.00083	< 0.00083	< 0.00083	

Table 3
Soil Analytical Results - Total Petroleum Hydrocarbons and Volatile Organic Compounds
BR11-1 Riley Avenue
Presidio of San Francisco, San Francisco, California

Sample ID	Depth (ft bgs)	Date	Total Petroleum Hydrocarbons (EPA 8015B)			Volatile Organic Compounds (EPA 8021B)					
			Gasoline	Diesel	Motor Oil	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene	
			Soil (mg/kg)								
SB006	10.0	10/03/2017	6.4 Y	2700	180 J,Y	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	
SB006	15.0	10/03/2017	5.2 Y	1300	85 J,Y	< 0.00083	< 0.00083	< 0.00083	< 0.00083	< 0.00083	
SB006	20.0	10/03/2017	0.096 J	29 Y	2.6 J	< 0.00087	< 0.00087	< 0.00087	< 0.00087	< 0.00087	
SB006 DUP	20.0	10/03/2017	0.13 J	68 Y	8.1	< 0.00092	< 0.00092	< 0.00092	< 0.00092	< 0.00092	
SB006	25.0	10/03/2017	0.071 J	0.53 J,Y	< 5.9	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.00027 C,J	
SB006	30.0	10/03/2017	0.025 J	0.58 J,Y	< 5.9	< 0.00082	< 0.00082	< 0.00082	< 0.00082	0.00021 C,J	
SB007	1.0	10/03/2017	0.025 J	5 Y	17	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081	
SB007	5.0	10/03/2017	0.033 J	5 Y	2.6 J	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086	
SB007	10.0	10/03/2017	0.055 J	44 Y	5.9	< 0.00087	< 0.00087	< 0.00087	< 0.00087	< 0.00087	
SB007 DUP	10.0	10/03/2017	0.044 J	4.8 Y	< 5.8	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	
SB007	15.0	10/03/2017	0.026 J	1.8 Y	< 5.8	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	
SB007	20.0	10/03/2017	0.057 J	7.1 Y	2.6 J	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	
SB007	25.0	10/03/2017	0.037 J	1.4 Y	2.1 J	< 0.00088	< 0.00088	< 0.00088	< 0.00088	< 0.00088	
SB007	27.0	10/03/2017	0.026 J	1.1 J,Y	< 5.8	< 0.00082	< 0.00082	< 0.00082	< 0.00082	< 0.00082	
SB008	0.0	10/12/2017	0.044 J	9.1 Y	9.5	< 0.00095	< 0.00095	< 0.00095	< 0.00095	< 0.00095	
SB008	1.0	10/12/2017	1.5 Y	270	32	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	
SB008	3.0	10/12/2017	1.1 Y	350	21 Y	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	
SB008	5.0	10/12/2017	5.9 Y	450	20 Y	< 0.001	0.0054 C	< 0.001	< 0.001	< 0.001	
SB008 DUP	5.0	10/12/2017	0.19 J	350	17 Y	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	
SB008	6.0	10/12/2017	2.5 Y	250	12 Y	< 0.00092	< 0.00092	< 0.00092	< 0.00092	< 0.00092	
SB009	0.0	10/12/2017	0.034 J	< 1.2	< 5.9	< 0.00091	< 0.00091	< 0.00091	< 0.00091	< 0.00091	
SB009	1.0	10/12/2017	0.032 J	37 Y	110	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	
SB009	3.0	10/12/2017	0.043 J	0.45 J,Y	< 6	< 0.00088	< 0.00088	< 0.00088	< 0.00088	< 0.00088	
SB009	5.0	10/12/2017	0.041 J	< 1.2	< 5.9	< 0.00093	< 0.00093	< 0.00093	< 0.00093	< 0.00093	
SB009	7.0	10/12/2017	0.029 J	< 1.2	< 6	< 0.00079	< 0.00079	< 0.00079	< 0.00079	< 0.00079	
BR11-1SB010	3.0	06/28/2018	0.034 J	110 Y	120	NA	NA	NA	NA	NA	
BR11-1SB010	5.0	06/28/2018	66 Y	18000	1600 Y	NA	NA	NA	NA	NA	
BR11-1SB010	7.0	06/28/2018	78 Y	4200	340 Y	NA	NA	NA	NA	NA	
BR11-1SB010	10.0	06/28/2018	55 Y	2200	180 Y	NA	NA	NA	NA	NA	
BR11-1SB010	15.0	06/28/2018	57 Y	3600	290 Y	NA	NA	NA	NA	NA	
BR11-1SB010 DUP	15.0	06/28/2018	120 Y	7700	620 Y	NA	NA	NA	NA	NA	
BR11-1SB010	17.5	06/28/2018	170 Y	10000	880 Y	NA	NA	NA	NA	NA	
BR11-1SB010	20.0	06/28/2018	130 Y	15000	1400 Y	NA	NA	NA	NA	NA	
BR11-1SB010	25.0	06/28/2018	58 Y	3500	270 Y	NA	NA	NA	NA	NA	
BR11-1SB010	30.0	06/28/2018	0.18 J,Y	0.82 J,Y	< 6.0	NA	NA	NA	NA	NA	
BR11-1SB010	35.0	06/28/2018	0.048 J	26	2.8 J,Y	NA	NA	NA	NA	NA	
BR11-1SB011	3.0	06/25/2018	0.029 J	1.3 Y	8.1	NA	NA	NA	NA	NA	
BR11-1SB011	5.0	06/25/2018	0.020 J	1.3 Y	4.2 J	NA	NA	NA	NA	NA	
BR11-1SB011	7.0	06/25/2018	0.034 J	0.64 J,Y	< 5.9	NA	NA	NA	NA	NA	
BR11-1SB011	10.0	06/25/2018	0.029 J	4.1 Y	15	NA	NA	NA	NA	NA	
BR11-1SB011	15.0	06/25/2018	0.018 J	2.0 Y	5.8 J	NA	NA	NA	NA	NA	
BR11-1SB011	20.0	06/25/2018	0.065 J	5.8 Y	31	NA	NA	NA	NA	NA	
BR11-1SB011	25.0	06/25/2018	0.030 J	1.1 J,Y	5.1 J	NA	NA	NA	NA	NA	
BR11-1SB011	30.0	06/25/2018	0.029 J	0.78 J,Y	1.9 J	NA	NA	NA	NA	NA	
BR11-1SB011 DUP	30.0	06/25/2018	0.11 J	0.42 J,Y	< 5.9	NA	NA	NA	NA	NA	
BR11-1SB011	35.0	06/25/2018	0.018 J	0.51 J,Y	< 5.3	NA	NA	NA	NA	NA	
BR11-1SB012	3.0	06/04/2018	0.033 J	1.2 Y	6.5 Y	NA	NA	NA	NA	NA	
BR11-1SB012	5.0	06/04/2018	0.017 J	0.58 J,Y	< 5.9	NA	NA	NA	NA	NA	
BR11-1SB012	7.0	06/04/2018	0.028 J	0.43 J,Y	< 5.9	NA	NA	NA	NA	NA	
BR11-1SB012	10.0	06/04/2018	< 0.17	1.3 Y	3.9 J	NA	NA	NA	NA	NA	
BR11-1SB012	15.0	06/04/2018	0.028 J	2.0 Y	< 5.9	NA	NA	NA	NA	NA	
BR11-1SB012	20.0	06/04/2018	0.033 J	0.88 J,Y	1.8 J	NA	NA	NA	NA	NA	
BR11-1SB012	25.0	06/04/2018	0.034 J	0.90 J,Y	< 5.9	NA	NA	NA	NA	NA	
BR11-1SB012 DUP	25.0	06/04/2018	0.022 J	0.92 J,Y	< 5.8	NA	NA	NA	NA	NA	
BR11-1SB012	30.0	06/04/2018	0.040 J	0.97 J,Y	< 5.8	NA	NA	NA	NA	NA	

Table 3
Soil Analytical Results - Total Petroleum Hydrocarbons and Volatile Organic Compounds
BR11-1 Riley Avenue
Presidio of San Francisco, San Francisco, California

Sample ID	Depth (ft bgs)	Date	Total Petroleum Hydrocarbons (EPA 8015B)			Volatile Organic Compounds (EPA 8021B)				
			Gasoline	Diesel	Motor Oil	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene
			Soil (mg/kg)							
BR11-1SB012	35.0	06/04/2018	0.018 J	0.55 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB012	40.0	06/04/2018	0.025 J	3.6 Y	< 5.3	NA	NA	NA	NA	NA
BR11-1SB012	45.0	06/04/2018	0.022 J	4.0 Y	11	NA	NA	NA	NA	NA
BR11-1SB012	50.0	06/04/2018	0.022 J	1.9 Y	3.9 J	NA	NA	NA	NA	NA
BR11-1SB013	3.0	06/05/2018	0.014 J	0.84 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB013	5.0	06/05/2018	0.017 J	0.67 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB013	7.0	06/05/2018	0.013 J	0.48 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB013	10.0	06/05/2018	0.022 J	0.80 J,Y	< 5.8	NA	NA	NA	NA	NA
BR11-1SB013	15.0	06/05/2018	0.0084 J	0.93 J,Y	< 5.8	NA	NA	NA	NA	NA
BR11-1SB013	20.0	06/05/2018	0.0099 J	0.99 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB013	25.0	06/05/2018	0.015 J	0.82 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB013	30.0	06/05/2018	0.022 J	0.39 J,Y	< 5.5	NA	NA	NA	NA	NA
BR11-1SB013	35.0	06/05/2018	0.020 J	2.2 Y	7.0 Y	NA	NA	NA	NA	NA
BR11-1SB013	40.0	06/05/2018	0.021 J	1.4 Y	1.7 J,Y	NA	NA	NA	NA	NA
BR11-1SB013 DUP	40.0	06/05/2018	0.029 J	0.40 J,Y	< 5.4	NA	NA	NA	NA	NA
BR11-1SB013	45.0	06/05/2018	0.021 J	< 1.1	< 5.6	NA	NA	NA	NA	NA
BR11-1SB013	50.0	06/05/2018	0.030 J	0.69 J,Y	< 5.8	NA	NA	NA	NA	NA
BR11-1SB014	3.0	06/04/2018	0.027 J	1.2 J,Y	4.0 J	NA	NA	NA	NA	NA
BR11-1SB014	5.0	06/04/2018	0.020 J	0.66 J,Y	< 6.1	NA	NA	NA	NA	NA
BR11-1SB014	7.0	06/04/2018	0.022 J	0.72 J,Y	2.0 J	NA	NA	NA	NA	NA
BR11-1SB014	10.0	06/04/2018	0.019 J	28 Y	96	NA	NA	NA	NA	NA
BR11-1SB014	15.0	06/04/2018	0.010 J	3.0 Y	< 5.8	NA	NA	NA	NA	NA
BR11-1SB014	20.0	06/04/2018	0.0087 J	2.9 Y	8.1	NA	NA	NA	NA	NA
BR11-1SB014 DUP	20.0	06/04/2018	0.012 J	0.46 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB014	25.0	06/04/2018	0.014 J	0.47 J,Y	< 5.4	NA	NA	NA	NA	NA
BR11-1SB015	3.0	06/05/2018	0.018 J	0.45 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB015	5.0	06/05/2018	0.022 J	0.47 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB015	7.0	06/05/2018	0.024 J	0.53 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB015	10.0	06/05/2018	0.017 J	< 1.2	< 6.0	NA	NA	NA	NA	NA
BR11-1SB015	15.0	06/05/2018	0.011 J	0.49 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB015	20.0	06/05/2018	0.21 J	1.9 Y,Z	8.5	NA	NA	NA	NA	NA
BR11-1SB015	25.0	06/05/2018	0.013 J	2.5 Y,Z	12	NA	NA	NA	NA	NA
BR11-1SB015	30.0	06/05/2018	0.028 J	2.1 Y	8.7	NA	NA	NA	NA	NA
BR11-1SB015	35.0	06/05/2018	0.032 J	1.0 J,Y,Z	2.8 J	NA	NA	NA	NA	NA
BR11-1SB015 DUP	35.0	06/05/2018	0.027 J	0.42 J,Y,Z	< 6.2	NA	NA	NA	NA	NA
BR11-1SB015	40.0	06/05/2018	< 0.17	0.86 J,Y,Z	< 6.0	NA	NA	NA	NA	NA
BR11-1SB015	45.0	06/05/2018	0.025 J	0.39 J,Y	< 6.1	NA	NA	NA	NA	NA
BR11-1SB016	3.0	06/06/2018	< 0.16	0.78 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB016	5.0	06/06/2018	0.020 J	1.5 Y,Z	< 6.0	NA	NA	NA	NA	NA
BR11-1SB016	7.0	06/06/2018	0.024 J	2.8 Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB016	10.0	06/06/2018	0.27 Y	23 Y	3.5 J,Y	NA	NA	NA	NA	NA
BR11-1SB016 DUP	10.0	06/06/2018	0.64 Y	120	16	NA	NA	NA	NA	NA
BR11-1SB016	15.0	06/06/2018	5.7 Y	290	34	NA	NA	NA	NA	NA
BR11-1SB016	20.0	06/06/2018	0.18 J	0.82 J,Y	2.5 J	NA	NA	NA	NA	NA
BR11-1SB016	25.0	06/06/2018	0.013 J	1.5 Y	3.3 J	NA	NA	NA	NA	NA
BR11-1SB016	30.0	06/06/2018	0.028 J	4.0 Y,Z	14	NA	NA	NA	NA	NA
BR11-1SB016	35.0	06/06/2018	0.023 J	0.58 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB017	3.0	06/05/2018	0.020 J	9.9 Y	20	NA	NA	NA	NA	NA
BR11-1SB017	5.0	06/05/2018	0.020 J	1.2 Y	5.5 J,Y	NA	NA	NA	NA	NA
BR11-1SB017	7.0	06/05/2018	0.022 J	0.83 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB017	10.0	06/05/2018	0.011 J	0.97 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB017	15.0	06/05/2018	< 0.15	1.9 Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB017	20.0	06/05/2018	0.030 J	0.57 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB017 DUP	20.0	06/05/2018	0.034 J	1.0 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB017	25.0	06/05/2018	0.015 J	0.56 J,Y	< 5.9	NA	NA	NA	NA	NA

Table 3
Soil Analytical Results - Total Petroleum Hydrocarbons and Volatile Organic Compounds
BR11-1 Riley Avenue
Presidio of San Francisco, San Francisco, California

Sample ID	Depth (ft bgs)	Date	Total Petroleum Hydrocarbons (EPA 8015B)			Volatile Organic Compounds (EPA 8021B)				
			Gasoline	Diesel	Motor Oil	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene
			Soil (mg/kg)							
BR11-1SB017	30.0	06/05/2018	0.24 J	0.47 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB017	35.0	06/05/2018	0.026 J	< 1.2	< 5.8	NA	NA	NA	NA	NA
BR11-1SB017	40.0	06/05/2018	0.029 J	0.45 J,Y	< 6.2	NA	NA	NA	NA	NA
BR11-1SB018	3.0	06/28/2018	0.050 J	35 Y	32	NA	NA	NA	NA	NA
BR11-1SB018	5.0	06/28/2018	0.058 J	36 Y	39	NA	NA	NA	NA	NA
BR11-1SB018	7.0	06/28/2018	3.2 Y	1100	94 Y	NA	NA	NA	NA	NA
BR11-1SB018	10.0	06/28/2018	44 Y	1000	81 Y	NA	NA	NA	NA	NA
BR11-1SB018	15.0	06/28/2018	32 Y	980	82 Y	NA	NA	NA	NA	NA
BR11-1SB018 DUP	15.0	06/28/2018	63 Y	2200	160 Y	NA	NA	NA	NA	NA
BR11-1SB018	20.0	06/28/2018	0.096 J,Y	3.8 Y	< 5.7	NA	NA	NA	NA	NA
BR11-1SB018	25.0	06/28/2018	0.036 J,Y	1.2 Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB018	30.0	06/28/2018	0.036 J	1.3 Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB018	35.0	06/28/2018	0.034 J	0.69 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB019	3.0	06/28/2018	0.053 J	4.6 Y	29	NA	NA	NA	NA	NA
BR11-1SB019	5.0	06/28/2018	0.040 J	0.57 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB019	7.0	06/28/2018	0.052 J	0.77 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB019	10.0	06/28/2018	0.043 J	1.0 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB019	15.0	06/28/2018	0.032 J	0.90 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB019 DUP	15.0	06/28/2018	0.029 J	0.48 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB019	20.0	06/28/2018	0.097 J	1.1 J,Y	2.8 J	NA	NA	NA	NA	NA
BR11-1SB019	25.0	06/28/2018	0.033 J	0.63 J,Y	< 5.8	NA	NA	NA	NA	NA
BR11-1SB019	30.0	06/28/2018	0.058 J	5.5 Y	27	NA	NA	NA	NA	NA
BR11-1SB019	35.0	06/28/2018	0.039 J	0.68 J,Y	< 5.8	NA	NA	NA	NA	NA
BR11-1SB020	3.0	06/27/2018	0.024 J	0.40 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB020	5.0	06/27/2018	0.013 J	0.43 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB020	7.0	06/27/2018	0.014 J	0.37 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1SB020	10.0	06/27/2018	0.016 J	0.41 J,Y	< 5.8	NA	NA	NA	NA	NA
BR11-1SB020	15.0	06/27/2018	0.012 J	0.43 J,Y	< 6.1	NA	NA	NA	NA	NA
BR11-1SB020	20.0	06/27/2018	0.013 J	0.38 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1SB020 DUP	20.0	06/27/2018	0.0099 J	0.72 J,Y	5.6 J	NA	NA	NA	NA	NA
BR11-1SB020	25.0	06/27/2018	0.019 J	4.8 Y	22	NA	NA	NA	NA	NA
BR11-1SB020	30.0	06/27/2018	0.021 J	0.47 J,Y	< 5.7	NA	NA	NA	NA	NA
BR11-1SB020	35.0	06/27/2018	0.013 J	< 1.2	< 5.9	NA	NA	NA	NA	NA
BR11-1SB020	40.0	06/27/2018	0.013 J	< 1.2	< 5.8	NA	NA	NA	NA	NA
BR11-1SB020 DUP	40.0	06/27/2018	0.017 J	< 1.2	< 5.8	NA	NA	NA	NA	NA
BR11-1SB020	45.0	06/27/2018	0.013 J	0.38 J,Y	3.0 J	NA	NA	NA	NA	NA
BR11-1SB020	50.0	06/27/2018	0.012 J	< 1.1	< 5.4	NA	NA	NA	NA	NA
BR11-1GW01	3.0	06/25/2018	0.031 J	0.99 J,Y	5.0 J	NA	NA	NA	NA	NA
BR11-1GW01	5.0	06/25/2018	0.029 J	0.50 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1GW01	7.0	06/25/2018	0.022 J	0.45 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1GW01	10.0	06/25/2018	0.020 J	0.56 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1GW01	15.0	06/25/2018	0.015 J	0.51 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1GW01	20.0	06/25/2018	0.043 J	0.65 J,Y	1.9 J	NA	NA	NA	NA	NA
BR11-1GW01	25.0	06/25/2018	0.030 J	5.4 Y	17	NA	NA	NA	NA	NA
BR11-1GW01	30.0	06/25/2018	0.025 J	0.92 J,Y	2.7 J	NA	NA	NA	NA	NA
BR11-1GW01 DUP	30.0	06/25/2018	0.047 J	1.2 Y	3.5 J	NA	NA	NA	NA	NA
BR11-1GW01	35.0	06/25/2018	0.034 J	0.65 J,Y	< 5.5	NA	NA	NA	NA	NA
BR11-1GW01	40.0	06/25/2018	0.027 J	1.0 J,Y	< 5.8	NA	NA	NA	NA	NA
BR11-1GW01	45.0	06/25/2018	0.028 J	0.58 J,Y	2.7 J	NA	NA	NA	NA	NA
BR11-1GW01	49.0	06/25/2018	0.021 J	0.60 J,Y	< 5.6	NA	NA	NA	NA	NA
BR11-1GW02	3.0	06/25/2018	0.019 J	1.5 Y	9.9	NA	NA	NA	NA	NA
BR11-1GW02	5.0	06/25/2018	0.015 J	2.7 Y	22	NA	NA	NA	NA	NA
BR11-1GW02	7.0	06/25/2018	0.017 J	2.7 Y	4.5 J	NA	NA	NA	NA	NA
BR11-1GW02	10.0	06/25/2018	0.013 J	0.37 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1GW02	15.0	06/25/2018	0.013 J	0.69 J,Y	< 5.9	NA	NA	NA	NA	NA

Table 3
Soil Analytical Results - Total Petroleum Hydrocarbons and Volatile Organic Compounds
BR11-1 Riley Avenue
Presidio of San Francisco, San Francisco, California

Sample ID	Depth (ft bgs)	Date	Total Petroleum Hydrocarbons (EPA 8015B)			Volatile Organic Compounds (EPA 8021B)				
			Gasoline	Diesel	Motor Oil	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene
Soil (mg/kg)										
BR11-1GW02	20.0	06/25/2018	0.015 J	0.94 J,Y	3.4 J	NA	NA	NA	NA	NA
BR11-1GW02	25.0	06/25/2018	0.016 J	1.5 Y	5.5 J	NA	NA	NA	NA	NA
BR11-1GW02	30.0	06/25/2018	0.019 J	0.49 J,Y	< 5.8	NA	NA	NA	NA	NA
BR11-1GW02	35.0	06/25/2018	0.017 J	0.76 J,Y	3.2 J	NA	NA	NA	NA	NA
BR11-1GW02	40.0	06/25/2018	0.012 J	0.40 J,Y	< 5.9	NA	NA	NA	NA	NA
BR11-1GW02 DUP	40.0	06/25/2018	0.015 J	< 1.2	< 6.0	NA	NA	NA	NA	NA
BR11-1GW02	45.0	06/25/2018	0.064 J	0.36 J,Y	< 5.5	NA	NA	NA	NA	NA
BR11-1GW02	50.0	06/25/2018	0.020 J	< 1.1	< 5.4	NA	NA	NA	NA	NA
BR11-1GW03	3.0	06/26/2018	0.016 J	4.9 Y	18	NA	NA	NA	NA	NA
BR11-1GW03	5.0	06/26/2018	0.020 J	1.4 Y	4.9 J	NA	NA	NA	NA	NA
BR11-1GW03	7.0	06/26/2018	0.016 J	< 1.2	< 5.8	NA	NA	NA	NA	NA
BR11-1GW03	10.0	06/26/2018	0.084 J	0.98 J,Y	2.2 J	NA	NA	NA	NA	NA
BR11-1GW03	15.0	06/26/2018	0.072 J	1.2 Y	4.3 J	NA	NA	NA	NA	NA
BR11-1GW03	20.0	06/26/2018	0.042 J	0.79 J,Y	2.1 J	NA	NA	NA	NA	NA
BR11-1GW03	25.0	06/26/2018	0.014 J	0.42 J,Y	< 5.7	NA	NA	NA	NA	NA
BR11-1GW03	30.0	06/26/2018	0.012 J	0.48 J,Y	< 6.0	NA	NA	NA	NA	NA
BR11-1GW03	35.0	06/26/2018	0.022 J	1.1 J,Y	2.3 J	NA	NA	NA	NA	NA
BR11-1GW03 DUP	35.0	06/26/2018	0.016 J	0.70 J,Y	1.8 J	NA	NA	NA	NA	NA
Soil Cleanup Level: Human Health Residential ^a			1030	1380	1900	0.6	840	530	1080	1080
RWQCB ESLs (Tier 1, February 2019) ^b			100	260	1600	0.025	0.43	3.2	2.1	2.1
RWQCB ESLs (Constr. Worker, February 2016) ^b			2800	880	32000	24	480	4100	2400	2400

Notes:

BOLD values indicates the concentration exceeds the cleanup level and/or the ESL.
Shading indicates that the non detected value is above the ESL.

Abbreviations:

- = not available
- <# = not detected above the laboratory reporting limit
- µg/L = micrograms per liter
- ftg = feet below ground surface
- mg/kg = milligrams per kilogram
- NA = not analyzed
- EPA = United States Environmental Protection Agency
- C = Presence confirmed, but RPD between columns exceeds 40%
- J = Estimated value
- Y = Sample exhibits chromatographic pattern which does not resemble standard

Footnotes:

- ^a Soil cleanup levels from Tables 7-2 and 7-5 and groundwater cleanup levels from Table 7-6 from EKI's 2002 (with updates through 2013) *Development of Presidio-Wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water. Presidio of San Francisco.*
- ^b Tier 1 values from the San Francisco Regional Water Quality Control Board (RWQCB) January 2019 Revision 01 Environmental Screening Levels (ESLs). As per RWQCB ESLs Summary of Groundwater ESLs Table, the groundwater diesel value was used for the groundwater motor oil value since motor oil is not soluble.

Table 4
Soil Analytical Results - PAHs
BR11-1 Riley Avenue
Presidio of San Francisco, San Francisco, California

Sample ID	Depth (ft bgs)	Date	Polycyclic Aromatic Hydrocarbons (EPA 8270C-SIM)															
			Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
			Soil (mg/kg)															
SB006	5.0	10/03/2017	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.015 J	< 0.05	< 0.05	< 0.05	< 0.05	0.032 J
SB006 DUP	5.0	10/03/2017	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	0.014 J	0.023 J	< 0.059	< 0.059	< 0.059	0.033 J
SB006	10.0	10/03/2017	0.036 J	< 0.1	0.076 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.021 J	< 0.1	0.057 J	0.16	< 0.1	< 0.1	< 0.1	0.16
SB006	15.0	10/03/2017	< 0.061	< 0.061	0.064	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	0.013 J	< 0.061	0.038 J	< 0.061	< 0.061	< 0.061	< 0.061	0.095
SB006	20.0	10/03/2017	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	0.0028 J	< 0.0057	< 0.0057	0.003 J	0.0022 J
SB006 DUP	20.0	10/03/2017	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	0.0012 J	0.0045 J	< 0.0057	< 0.0057	0.0048 J	0.0034 J
SB006	25.0	10/03/2017	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059
SB006	30.0	10/03/2017	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059
SB007	1.0	10/03/2017	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	0.0017 J	< 0.006	< 0.006	0.0016 J	< 0.006	0.0014 J	< 0.006	< 0.006	< 0.006	0.0015 J	0.0018 J
SB007	5.0	10/03/2017	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
SB007	10.0	10/03/2017	< 0.0058	< 0.0058	0.0031 J	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	0.0015 J	0.014	< 0.0058	< 0.0058	0.013	0.0049 J
SB007 DUP	10.0	10/03/2017	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	0.0014 J	< 0.0059	< 0.0059	0.0016 J	< 0.0059
SB007	15.0	10/03/2017	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	0.0014 J	0.0026 J
SB007	20.0	10/03/2017	< 0.0058	< 0.0058	< 0.0058	< 0.0058	0.0021 J	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058
SB007	25.0	10/03/2017	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058
SB007	27.0	10/03/2017	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059
SB008	0.0	10/12/2017	< 0.0062	< 0.0062	< 0.0062	< 0.0062	0.0024 J	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	0.0012 J	< 0.0062
SB008	1.0	10/12/2017	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063
SB008	3.0	10/12/2017	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	0.0072 J	< 0.012	< 0.012	< 0.012	< 0.012	0.013
SB008	5.0	10/12/2017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	0.0096 J	0.034	< 0.017	< 0.017	0.12	0.0084 J
SB008 DUP	5.0	10/12/2017	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	0.0097 J	0.03	< 0.012	< 0.012	0.12	0.008 J
SB008	6.0	10/12/2017	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	0.0062 J	0.017	< 0.012	< 0.012	0.05	0.0065 J
SB009	0.0	10/12/2017	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059
SB009	1.0	10/12/2017	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062
SB009	3.0	10/12/2017	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059
SB009	5.0	10/12/2017	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059
SB009	7.0	10/12/2017	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061
Soil Cleanup Level: Human Health Residential ^a			2700	--	5900	0.43	0.04	0.43	620	0.43	4.3	0.078	820	770	0.27	480	600	620
RWQCB ESLs (Tier 1, February 2019) ^b			12	6.4	1.9	0.63	0.11	1.1	2.5	2.8	2.2	0.11	0.69	6.0	0.48	0.042	7.8	45
RWQCB ESLs (Constr. Worker, February 2016) ^b			10000	--	50000	16	1.6	16	--	150	1500	1.6	6700	6700	16	350	--	5000

Notes:
BOLD values indicates the concentration exceeds the cleanup level and/or the ESL.
Shading indicates that the non detected value is above the ESL.

Abbreviations:
-- = not available
<# = not detected above the laboratory reporting limit
µg/L = micrograms per liter
fbg = feet below ground surface
mg/kg = milligrams per kilogram
NA = not analyzed
EPA = United States Environmental Protection Agency
C = Presence confirmed, but RPD between columns exceeds 40%
J = Estimated value
Y = Sample exhibits chromatographic pattern which does not resemble standard

Footnotes:
^a Soil cleanup levels from Tables 7-2 and 7-5 and groundwater cleanup levels from Table 7-6 from EKI's 2002 (with updates through 2013) *Development of Presidio-Wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water. Presidio of San Francisco.*
^b Tier 1 values from the San Francisco Regional Water Quality Control Board (RWQCB) January 2019 Revision 01 Environmental Screening Levels (ESLs).
As per RWQCB ESLs Summary of Groundwater ESLs Table, the groundwater diesel value was used for the groundwater motor oil value since motor oil is not soluble.



Table 5
Groundwater Analytical Results - Total Petroleum Hydrocarbons and Volatile Organic Compounds
BR11-1 Riley Avenue
Presidio of San Francisco, San Francisco, California

Sample ID	Depth (ft bgs) ¹	Date	Total Petroleum Hydrocarbons (EPA 8015B)							Volatile Organic Compounds (EPA 8021B)				
			Gasoline (C7-C12)	Diesel (C10-C24)	Diesel w/ SGC	Motor Oil (C24-C36)	Motor Oil w/ SCG	Bunker C (C12-C40)	Bunker C w/ SGC	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene
Groundwater (µg/L)														
BR11-1GW01	23	07/06/2018	15 J	24 J,Y,Z	< 50	< 300	< 300	< 300	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	24	10/03/2018	32 J	66 Y,Z	< 50	< 300	< 300	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	24	1/18/2019	63	91 Y	<48	<290	<290	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	21	4/18/2019	69	460	160 Y	<290	<290	930 Y	380 Y	< 0.50	< 0.50	< 0.50	< 0.50	0.59 C
DUP10032018-01	24	10/03/2018	34 J	55 Y,Z	< 49	< 290	< 290	NA	NA	< 0.50	< 0.50	0.26 J	< 0.50	< 0.50
DUP01182019-01	24	1/18/2019	72	110 Y	<50	<300	<300	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BR11-1GW02	57	07/06/2018	18 J	230 Y,Z	< 50	< 300	< 300	630 Y,Z	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	57	10/03/2018	20 J	< 50	< 50	< 300	< 300	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	57	1/18/2019	<50	75 Y	<48	<290	<290	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	55	4/18/2019	<50	160 Y,Z	110 Y	300 Y,Z	<280	720 Y,Z	360 Y	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
DUP04182019-01	55	4/18/2019	<50	150 Y	120 Y	<280	<280	570 Y	380 Y	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BR11-1GW03	34	07/06/2018	17 J	50 J,Y,Z	< 50	< 300	< 300	< 300	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	34	10/03/2018	45 J	130 Y,Z	< 50	< 300	< 300	NA	NA	< 0.50	< 0.50	0.13 C,J	< 0.50	< 0.50
	34	1/18/2019	83	160 Y	<50	<300	<300	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	34	4/18/2019	59	220 Y	110 Y	<280	<280	310 Y	370 Y	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Groundwater Cleanup Level: Drinking Water ^a			770	880		1200		--		1.0	300	150	1750	--
RWQCB ESLs (Tier 1, February 2019) ^b			100	100		--		--		0.42	3.5	40	20	20
RWQCB ESLs (MCL Priority, February 2019) ^b			760	200		410 ^d		410 ^d		1.0	30	40	20	20
CCR Title 22, Secondary MCL (May 2006) ^c			--	--		--		--		--	--	--	--	--

Notes:

BOLD values indicates the concentration exceeds the cleanup level and/or the Tier 1 ESL.
 Shading indicates that the non-detect value is above the Tier 1 ESL.

Abbreviations:

-- = not available
 <# = not detected above the laboratory reporting limit
 µg/L = micrograms per liter
 fbg = feet below ground surface
 mg/kg = milligrams per kilogram
 NA = not analyzed
 EPA = United States Environmental Protection Agency
 ESL = Environmental Screening Level
 MCL = Maximum Contaminant Level
 SGC = silica gel cleanup
 C = Presence confirmed, but RPD between columns exceeds 40%
 J = Estimated value
 Y = Sample exhibits chromatographic pattern which does not resemble standard
 Z = Sample exhibits unknown single peaks or peaks

Footnotes:

¹ Measured depth to water in temporary or permanent well casing prior to sample collection.
^a Soil cleanup levels from Tables 7-2 and 7-5 and groundwater cleanup levels from Table 7-6 from EKI's 2002 (with updates through 2013) *Development of Presidio-Wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water. Presidio of San Francisco.*
^b Tier 1 values from the San Francisco Regional Water Quality Control Board (RWQCB) January 2019 Revision 01 Environmental Screening Levels (ESLs).
^c California Code of Regulations (CCR) Title 22 Division 4 Environmental Health Chapter 15. Domestic Water Quality and Monitoring Regulations. Article 16. May 2, Article 16. May 2, 2006
^d ESL shown is for Petroleum-hydrocarbon oxidation product (HOP). No ESL specific for motor oil or bunker c oil is available.

Table 6
Groundwater Analytical Results - Polycyclic Aromatic Hydrocarbons and Total Dissolved Solids
BR11-1 Riley Avenue
Presidio of San Francisco, San Francisco, California

Sample ID	Depth (ft bgs) ¹	Date	Polycyclic Aromatic Hydrocarbons (EPA 8270C-SIM)								Total Dissolved Solids (SM 2540C)		
			Acenaphthene	Anthracene	Benzo(g,h,i) perylene	Chrysene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene		Pyrene	
												(mg/L)	
BR11-1GW01	23	07/06/2018	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.04 J	< 0.1	< 0.1	680
	24	10/03/2018	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.04 J	< 0.1	< 0.1	680
	24	1/18/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	650
	21	4/18/2019	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.71	< 0.5	< 0.5	< 0.5	520
DUP10032018-01	24	10/03/2018	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	660
DUP01182019-01	24	1/18/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	660
BR11-1GW02	57	07/06/2018	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.07 J	< 0.1	< 0.1	510
	57	10/03/2018	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	420
	57	1/18/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	410
	55	4/18/2019	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	380
DUP04182019-01	55	4/18/2019	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	350
BR11-1GW03	34	07/06/2018	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.04 J	< 0.1	< 0.1	760
	34	10/03/2018	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	960
	34	1/18/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	960
	34	4/18/2019	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	820
Groundwater Cleanup Level: Drinking Water ^a			--	770	150	20	300	300	300	300	230	230	--
RWQCB ESLs (Tier 1, February 2019) ^b			15	0.73	0.1	0.049	8	3.9	0.17	4.6	2	--	--
RWQCB ESLs (MCL Priority, February 2019) ^b			530	1800	--	25	800	290	0.17	--	120	--	--
CCR Title 22, Secondary MCL (May 2006) ^c			--	--	--	--	--	--	--	--	--	--	500 - 1000

Notes:

BOLD values indicates the concentration exceeds the cleanup level and/or the Tier 1 ESL.
Shading indicates that the non-detect value is above the Tier 1 ESL.

Abbreviations:

-- = not available
<# = not detected above the laboratory reporting limit
µg/L = micrograms per liter
fbg = feet below ground surface
mg/kg = milligrams per kilogram
NA = not analyzed
EPA = United States Environmental Protection Agency
ESL = Environmental Screening Level
MCL = Maximum Contaminant Level
C = Presence confirmed, but RPD between columns exceeds 40%
J = Estimated value
Y = Sample exhibits chromatographic pattern which does not resemble standard
Z = Sample exhibits unknown single peaks or peaks

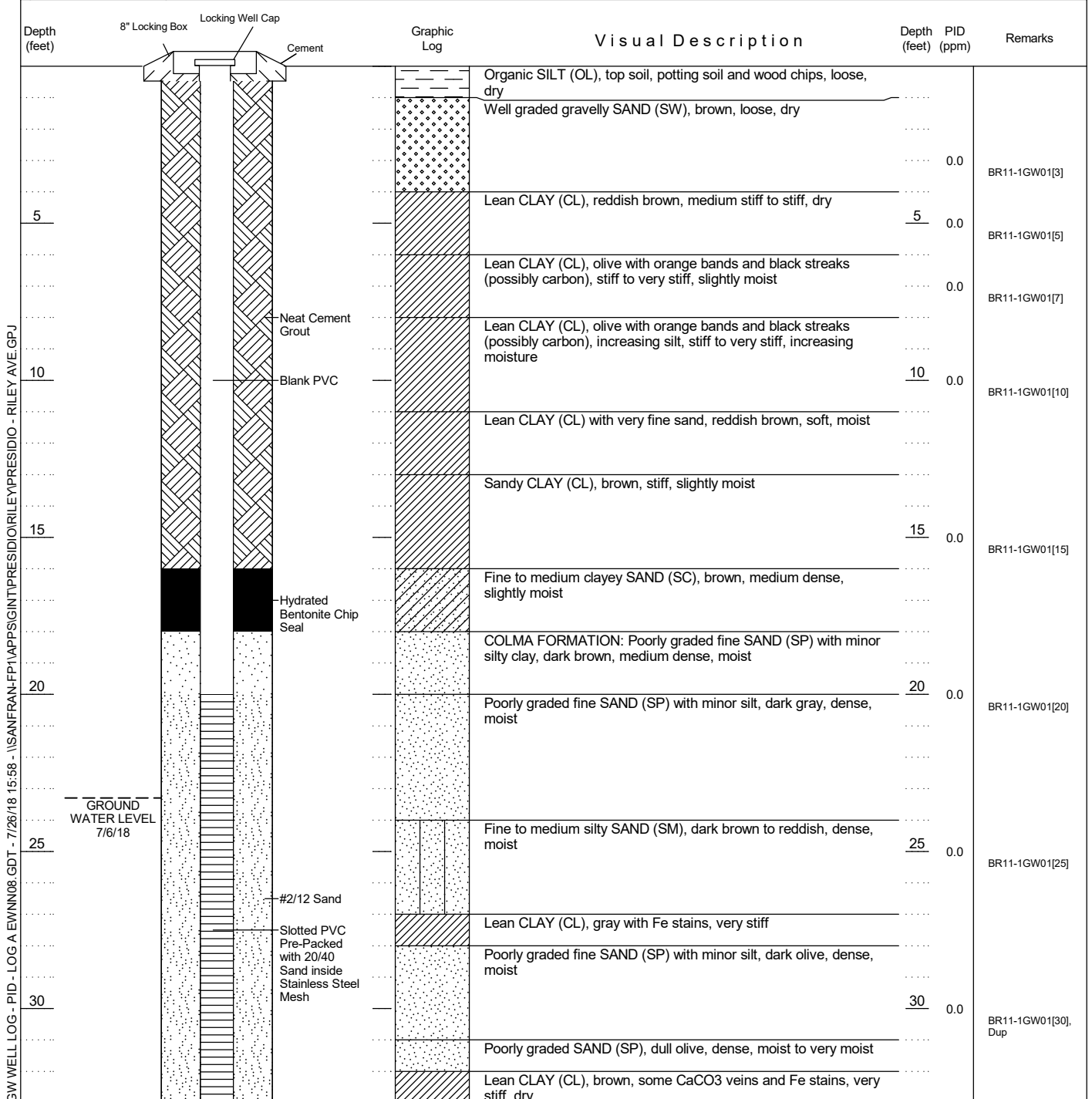
Footnotes:

¹ Measured depth to water in temporary or permanent well casing prior to sample collection.
^a Soil cleanup levels from Tables 7-2 and 7-5 and groundwater cleanup levels from Table 7-6 from EKI's 2002 (with updates through 2013) *Development of Presidio-Wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water. Presidio of San Francisco.*
^b Tier 1 values from the San Francisco Regional Water Quality Control Board (RWQCB) January 2019 Revision 01 Environmental Screening Levels (ESLs).
^c California Code of Regulations (CCR) Title 22 Division 4 Environmental Health Chapter 15. Domestic Water Quality and Monitoring Regulations. Article 16. May 2, 2006

ATTACHMENT A
Soil Boring and Well Construction Logs

WELL CONSTRUCTION LOG

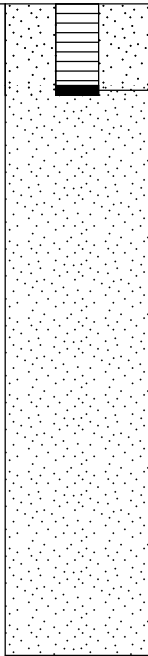
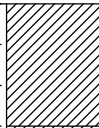
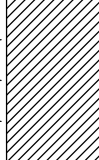
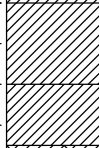
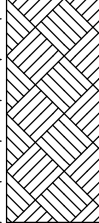
WELL ID BR11-1GW01			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		5995225.395N/ 2119973.762E	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push : Hollow Stem		BIT SIZE / BIT TYPE 2.25" : 6" / Shoe : Auger	SAMPLING METHOD 5' Acetate Liner
START-FINISH DATE 6/25/18 - 6/26/18			
CASING MATL. / DIAMETER SCH 40 PVC/2"	SCREEN: TYPE Pre-Packed	MATL. PVC / SS	TOTAL LENGTH 15
		DIA. 3.4"	SLOT SIZE 0.010"
ELEVATION OF: (FT. ABOVE NAVD 88)	GROUND SURFACE 82.1	TOP OF WELL CASING 81.8	TOP & BOTTOM SCREEN 62.1 & 47.1
		GW SURFACE 58.5	DATE 7/6/18



GW WELL LOG - PID - LOG A EWINN08.GDT - 7/26/18 15:58 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ

WELL CONSTRUCTION LOG

WELL ID BR11-1GW01	LOCATION The Presidio
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave	APPROVED BY Michael Patinkin
APPROVED BY Michael Patinkin	
5995225.395N/ 2119973.762E	

Depth (feet)	(continued)	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
35			Lean CLAY (CL), light gray, some Fe stains, possible rock fragments, hard, dry	35	0.0	BR11-1GW01[35]
40			Lean CLAY (CL), light gray, orange Fe stains, alternating with 2 - 3" layers of very severely to completely weathered rock with sand and silt, hard, dry	40	0.0	BR11-1GW01[40]
45			Lean CLAY (CL), gray with orange Fe stains, some very severely weathered rock fragments, coarse sand, and fine gravel, stiff, slightly moist			
			LEAN CLAY (CL), light orange, increasing very severely to completely weathered bedrock, very stiff, dry			
			FRANCISCAN COMPLEX: BEDROCK, dark gray, very severely to completely weathered rock, some rock fabric visible but no discernable jointing or foliation, trace possible small sepienite fragments observed, moist gray clay observed within the rock failure surfaces, 85% rock, soft, friable, dry	45	0.0	BR11-1GW01[45]
			Bottom of borehole at 49 feet.		0.0	BR11-1GW01[49]

GW WELL LOG - PID - LOG A EWINN08.GDT - 7/26/18 15:58 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ

WELL CONSTRUCTION LOG

WELL ID BR11-1GW02		PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push : Hollow Stem		BIT SIZE / BIT TYPE 2.25" : 6" / Shoe : Auger		SAMPLING METHOD 5' Acetate Liner	
START-FINISH DATE 6/25/18 - 6/26/18		CASING MATL. / DIAMETER SCH 40 PVC/2"		SCREEN: TYPE Pre-Packed MATL. PVC / SS TOTAL LENGTH 15 DIA. 3.4" SLOT SIZE 0.010"	
ELEVATION OF: (FT. ABOVE NAVD 88)		GROUND SURFACE 76.3		TOP OF WELL CASING 76.0	
TOP & BOTTOM SCREEN 31.3 & 16.3		GW SURFACE 19.2		DATE 7/6/18	

Depth (feet)	8" Locking Box	Locking Well Cap	Cement	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
5					Lean CLAY (CL) with abundant organic material, landscaped flowers and bushes, topsoil/potting soil, dark gray, soft, moist	5	0.0	BR11-1GW02[3]
					Lean CLAY (CL), dark olive, some organic material, stiff, moist			
					Lean CLAY (CL), dark reddish brown, stiff, slightly moist			
					Lean CLAY (CL), dark olive, stiff to very stiff, slightly moist			
10					Lean CLAY (CL) with increasing fine sand, dark olive, stiff to very stiff, increasing moisture	10	0.0	BR11-1GW02[5]
					Lean sandy CLAY (CL), brown, soft, moist			
15					Fine clayey SAND (SC)	15	0.0	BR11-1GW02[7]
					COLMA FORMATION: Poorly graded fine SAND (SP), grayish-brown, medium dense, slightly moist			
20			Neat Cement Grout		Poorly graded very fine SAND (SP) with minor clay, grayish olive, dense, slightly moist	20	0.0	BR11-1GW02[10]
			Blank PVC		Poorly graded very fine SAND (SP) with minor clay, grayish olive, increasing orange Fe staining, dense, slightly moist			
25					Poorly graded very fine SAND (SP) with minor clay, grayish olive, increasing orange Fe staining, dense, slightly moist	25	0.0	BR11-1GW02[15]
					Fine clayey SAND (SC), light brown, medium dense, slightly moist			
					Lean sandy CLAY (CL), light brown, medium stiff, slightly moist			
30					Poorly graded SAND (SP) with minor clay, brown, dense, slightly moist	30	0.0	BR11-1GW02[20]

GW WELL LOG - PID - LOG A EWINN08.GDT - 7/26/18 15:58 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ

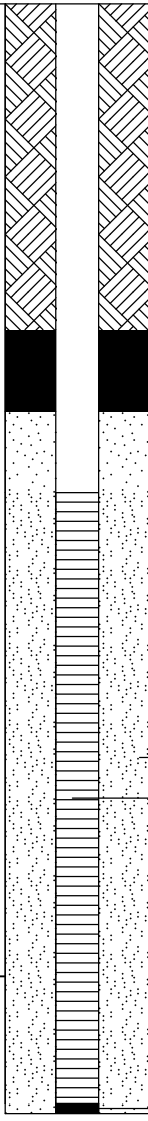
WELL CONSTRUCTION LOG

WELL ID BR11-1GW02	LOCATION The Presidio
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave	APPROVED BY Michael Patinkin
5995277.36N/ 2120077.01E	

Depth (feet)	(continued)	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
35				35	0.0	BR11-1GW02[35]
40			Poorly graded fine SAND (SP) with minor clay, brown, dense, moist to wet	40	0.0	BR11-1GW02[40], Dup
45			Poorly graded fine SAND (SP) with minor clay, brown, loose to medium dense, increasing moisture	45	0.0	BR11-1GW02[45]
50			Poorly graded SAND (SP), brown, dense to very dense, moist	50	0.0	BR11-1GW02[50]
55			Boring continued with Hollow Stem Auger (soils not logged)	55		
60			Bottom of borehole at 60 feet.	60		

GW WELL LOG - PID - LOG A E/W/N08 GDT - 7/26/18 15:58 - \\SANFRAN-PP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ

GROUND WATER LEVEL
7/6/18



Hydrated Bentonite Chip Seal

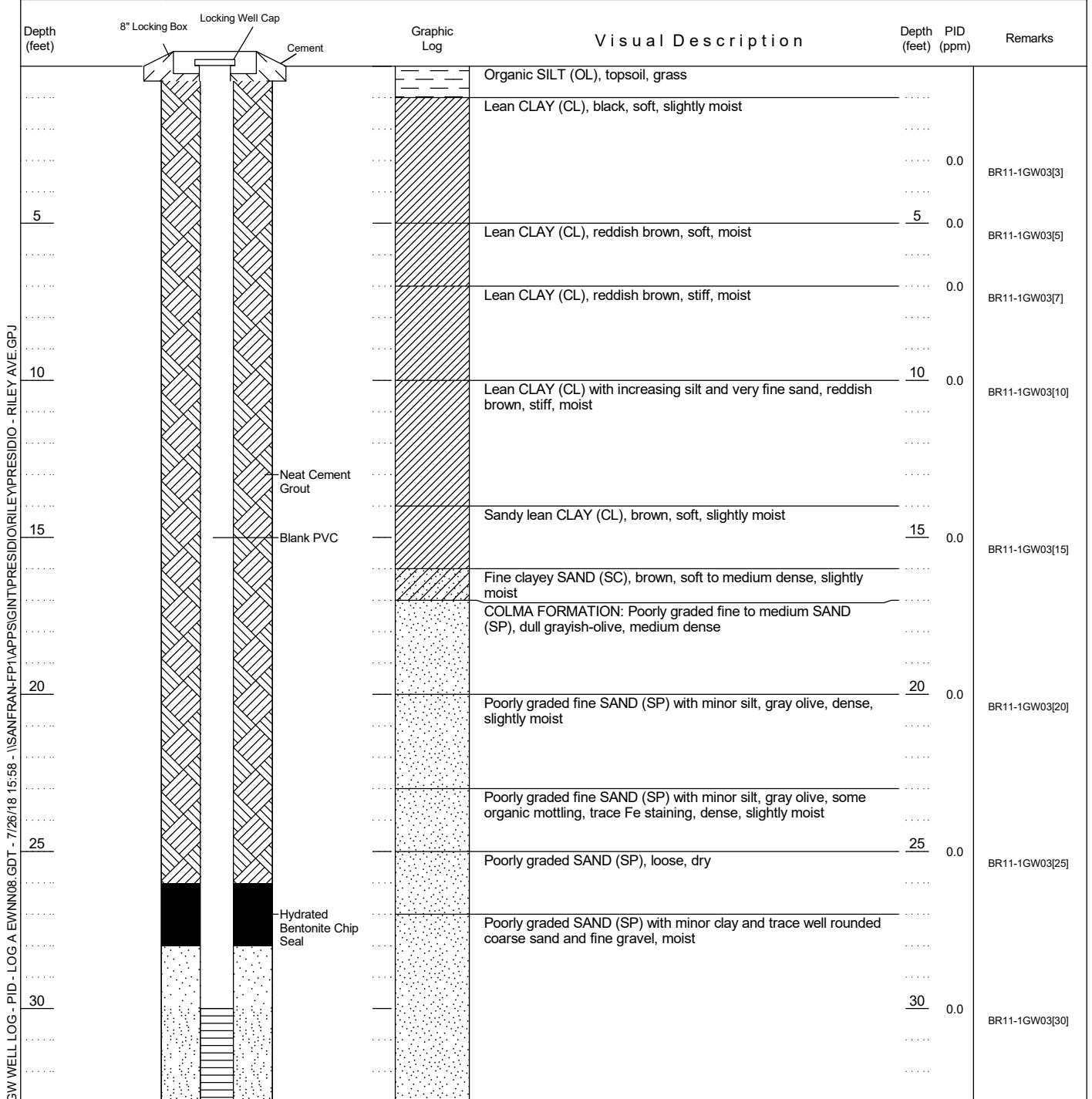
#2/12 Sand
Slotted PVC Pre-Packed with 20/40 Sand inside Stainless Steel Mesh

End Cap

Bottom of borehole at 60 feet.

WELL CONSTRUCTION LOG

WELL ID BR11-1GW03		PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push : Hollow Stem		BIT SIZE / BIT TYPE 2.25" : 6" / Shoe : Auger		SAMPLING METHOD 5' Acetate Liner	
START-FINISH DATE 6/26/18 - 6/26/18		CASING MATL. / DIAMETER SCH 40 PVC/2"		SCREEN: TYPE Pre-Packed MATL. PVC / SS TOTAL LENGTH 15 DIA. 3.4" SLOT SIZE 0.010"	
ELEVATION OF: (FT. ABOVE NAVD 88)		GROUND SURFACE 82.1		TOP OF WELL CASING 81.7	
		TOP & BOTTOM SCREEN 52.1 & 37.1		GW SURFACE 47.7	
				DATE 7/6/18	



WELL CONSTRUCTION LOG

WELL ID BR11-1GW03	
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave	LOCATION The Presidio
APPROVED BY Michael Patinkin	5995201.905N/ 2120034.06E

Depth (feet)	(continued)	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
35	<p>#2/12 Sand</p> <p>Slotted PVC Pre-Packed with 20/40 Sand inside Stainless Steel Mesh</p> <p>End Cap</p>		Lean CLAY (CL), dark olive, very stiff, slightly moist	35	0.0	BR11-1GW03[35], Dup
			Lean CLAY (CL), light reddish olive, very stiff, slightly moist			
40			FRANCISCAN COMPLEX: BEDROCK, brown gray, very severely weathered rock, some clay in fractures	40	0.0	Not Collected
			Boring continued with Hollow Stem Auger (soils not logged)			
45			Bottom of borehole at 45 feet.	45		

GW WELL LOG - PID - LOG A EWINN08.GDT - 7/26/18 15:58 - \\SANFRAN-FF1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB010		LOCATION The Presidio	
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		APPROVED BY Michael Patinkin	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push		BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner
ELEVATION OF: GROUND SURFACE (ft above MSL) 82.5		GW SURFACE (ft above MSL) 56.5	DATE OF GW MEASUREMENT 6/28/18
(FT. ABOVE NAVD 88)		NORTHING/ EASTING 5995214.832/ 2119977.197	

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\RILEY AVE.GPJ

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
0.0			Organic SILT and silty CLAY (OL), mulch and potting soil, wood chips	0.0		BR11-1SB010[3]
5.0			Lean CLAY (CL), dark gray black, soft, moist	5.0		BR11-1SB010[5]
10.0			Lean CLAY (CL) with some silt, light greenish gray, moderate odor, medium stiff, moist	10.0		BR11-1SB010[7]
15.0			Very silty CLAY (CL), dark gray green, moderate odor, dry	15.0		BR11-1SB010[10]
20.0			Lean CLAY (CL) with silt, dark, moderate odor, very stiff	20.0		BR11-1SB010[15], Dup
25.0			Silty lean CLAY (CL)	25.0		BR11-1SB010[17.5]
30.0			Silty lean CLAY (CL), brownish liquid bubbles out of soil when pressure applied to sample core, strong odor	30.0		BR11-1SB010[20]
35.0			COLMA FORMATION: Poorly graded fine SAND (SP), greenish gray, very strong odor, loose, wet	35.0		BR11-1SB010[25]
40.0			Fine silty SAND (SM), dark gray green, light brownish liquid in lines along outside of sample core (product suspected), very strong odor, medium dense, saturated	40.0		BR11-1SB010[25]
45.0			Poorly graded silty SAND (SM) with some fine rounded gravel, dark greenish gray, strong odor, saturated	45.0		BR11-1SB010[30]
50.0			Poorly graded fine clayey SAND (SC), dark gray, strong odor, loose, wet	50.0		
55.0			Fine to medium silty SAND (SM), reddish brown, mild odor, loose, moist	55.0		

Neat Cement Grout

GROUND WATER LEVEL
6/28/18



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB010			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner	START-FINISH DATE 6/28/18 - 6/28/18

ELEVATION OF: GROUND SURFACE (ft above MSL)	GW SURFACE (ft above MSL)	DATE OF GW MEASUREMENT	NORTHING/ EASTING
(FT. ABOVE NAVD 88) 82.5	56.5	6/28/18	5995214.832/ 2119977.197

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
35			Sandy lean CLAY (CL), olive with abundant Fe staining, possible completely weathered rock, soft FRANCISCAN COMPLEX: BEDROCK, very severely to completely weathered, friable, soft Bottom of borehole at 35 feet.	35	0.1	BR11-1SB010[35]

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB011		LOCATION The Presidio	
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		APPROVED BY Michael Patinkin	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push		BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner
ELEVATION OF: GROUND SURFACE (ft above MSL) 82.5		GW SURFACE (ft above MSL) Not Encountered	DATE OF GW MEASUREMENT 6/25/18
(FT. ABOVE NAVD 88)		NORTHING/ EASTING 5995219.814/ 2119965.851	

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
			Organic SILT (OL), top soil, potting soil, wood chips			
			Lean CLAY (CL), brown orange, some organics, soft, slightly moist		0.0	BR11-1SB011[3]
5			Lean CLAY (CL), brownish orange, some carbon, very stiff, dry	5	0.0	BR11-1SB011[5]
			Lean CLAY (CL), brownish orange, some carbon, soft to medium stiff, dry		0.0	BR11-1SB011[7]
10			Sandy lean CLAY (CL), very fine to fine sand, stiff	10	0.0	BR11-1SB011[10]
			Very fine to fine clayey SAND (SC), brown, dense, slightly moist			
15				15	0.0	BR11-1SB011[15]
			COLMA FORMATION: Poorly graded fine SAND (SP) with minor silt, gray, dense, moist			
	Neat Cement Grout		Poorly graded fine SAND (SP) with minor silt, greenish gray, dense, moist			
20			Poorly graded fine SAND (SP), greenish gray, some orange Fe stains, medium dense, moist	20	0.0	BR11-1SB011[20]
			Poorly graded fine SAND (SP), brown and orange, some orange Fe stains, medium dense, moist			
25				25	0.0	BR11-1SB011[25]
			Lean CLAY (CL), orange and gray, mottled, very stiff, moist			
30			very severely weathered ROCK, brown and gray, clayey fracture surfaces, friable, soft	30	0.0	BR11-1SB011[30], Dup
			Lean CLAY (CL), orange and gray, mottled, very stiff, moist			



SOIL BORING LOG - LOG A EWINN08.GDT - 8/6/18 16:45 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB011			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner	START-FINISH DATE 6/25/18 - 6/25/18
ELEVATION OF: GROUND SURFACE (ft above MSL) (FT. ABOVE NAVD 88)	GW SURFACE (ft above MSL) 82.5	DATE OF GW MEASUREMENT 6/25/18	NORTHING/ EASTING 5995219.814/ 2119965.851

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
--------------	-----------------------------	-------------	--------------------	--------------	-----------	---------

35			Bottom of borehole at 35 feet.	35	0.0	BR11-1SB011[35]
----	---	---	--------------------------------	----	-----	-----------------

SOIL BORING LOG - LOG A EWINN08.GDT - 8/6/18 16:45 - I:\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB012		LOCATION The Presidio	
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		APPROVED BY Michael Patinkin	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push		BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner
ELEVATION OF: GROUND SURFACE (ft above MSL) 83.3		GW SURFACE (ft above MSL) 59.3	DATE OF GW MEASUREMENT 6/4/18
(FT. ABOVE NAVD 88)		NORTHING/ EASTING 5995206.278/ 2119963.322	

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
0			Organic SILT and silty CLAY (OL), top soil, dark brown, some fine sand, trace fine rounded gravel, abundant organic plant matter and wood chips, loose, moist	0.0		BR11-1SB012[3]
5			Lean CLAY (CL), reddish brown with numerous black spots attributed to burnt organic matter, very silty, minor sand, trace fine gravel, stiff, moist	5		
5			Lean CLAY (CL), brown with numerous black spots attributed to burnt organic matter, very silty, minor sand, trace fine gravel, stiff, moist	0.3		BR11-1SB012[5]
7				0.0		BR11-1SB012[7]
10			Lean CLAY (CL), brown with numerous black spots attributed to burnt organic matter, very silty, increasing very fine to fine sand, trace fine gravel, medium stiff to stiff, very slightly moist	10		
10				0.0		BR11-1SB012[10]
15			Lean CLAY (CL), brown with numerous black spots attributed to burnt organic matter, very silty, increasing fine sand, trace fine gravel, medium stiff, increasing moisture	15		
15			Poorly graded fine SAND (SP), dark brown, minor clay, loose, slightly moist	0.3		BR11-1SB012[15]
20			Poorly graded fine SAND (SP), dark brown, minor clay, loose, moist	20		
20			Sandy lean CLAY (CL), gray with reddish brown blotches and gray CaCO3 veins, stiff, slightly moist	0.3		BR11-1SB012[20]
25			CLAY (CL), reddish brown with gray CaCO3 veins and Fe stains, minor very fine sand, very stiff, dry	25		
25			Sandy CLAY (CL), gray with Fe stains, intermittent layers of fine angular rock, very stiff, slightly moist	0.5		BR11-1SB012[25], Dup
30			Sandy CLAY (CL), gray with Fe stains, increasing rock fabric with embedded completely weathered rock, very stiff, slightly moist	30		
30				0.6		BR11-1SB012[30]

SOIL BORING LOG - LOG A EWNN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ

GROUND WATER LEVEL
6/4/18

Neat Cement Grout



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB012			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		LOGGED BY Nathan Berube	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push		BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner
ELEVATION OF: GROUND SURFACE (ft above MSL) 83.3		GW SURFACE (ft above MSL) 59.3	DATE OF GW MEASUREMENT 6/4/18
(FT. ABOVE NAVD 88)		NORTHING/ EASTING 5995206.278/ 2119963.322	

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
35			Lean CLAY (CL) with some fine gravel and fine sand, possible rock fragments, hard	35	0.6	BR11-1SB012[35]
40			Clay (CL) with completely weathered rock, gray to brownish red (Fe stained), alternating from hard to lean with angular fine gravel and rock fragments	40	0.9	BR11-1SB012[40]
45			Clay (CL) with completely weathered rock, gray to brownish red (Fe stained), intermittent 1 to 2 inch thick layers of fractured rocks within matrix of lean clay	45	1.0	BR11-1SB012[45]
50			Clayey fine to medium poorly graded SAND (SC), Fe stains, hard, dry, moist clay layer at 43.5'	50	0.0	BR11-1SB012[50]
			Sandy lean CLAY (CL), brownish red, soft, saturated			
			Clayey fine angular GRAVEL (GC) and poorly graded fine sand mixture, groundwater first encountered during drilling at 50'			

Bottom of borehole at 53 feet.

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB013			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push		BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner
ELEVATION OF: GROUND SURFACE (ft above MSL) 83.8		GW SURFACE (ft above MSL) Not Encountered	DATE OF GW MEASUREMENT 6/5/18
(FT. ABOVE NAVD 88)		NORTHING/ EASTING 5995187.185/ 2119963.934	

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks			
.....			Organic SILT and silty CLAY (OL), top soil, dark brown, some fine sand, trace fine gravel, abundant organic plant matter and wood chips, soft, moist	.....				
.....			Lean CLAY with sand (CL), dark reddish brown, medium stiff, slightly moist	.....				
.....			1.1			BR11-1SB013[3]		
.....			5					
.....			5.4			BR11-1SB013[5]		
.....					0.0	BR11-1SB013[7]	
.....			Lean CLAY (CL), dark reddish brown to dull olive, some black flecks, stiff, very slightly moist				
.....					10		
.....			Lean CLAY with fine sand (CL), dark brownish red, increasing fine to medium sand, medium stiff, slightly moist			0.0	BR11-1SB013[10]
.....					15		
.....	Fine to medium clayey SAND (SC), dark reddish brown, medium dense	.....	0.0	BR11-1SB013[15]			
.....	20						
.....	Lean CLAY (CL), yellowish olive, stiff, dry	.....	0.0	BR11-1SB013[20]			
.....		Gravelly CLAY (CLG), grayish-olive, fractured severely weathered rock, hard, dry	.....				
.....		Silty GRAVEL (GM) with sand, increased severely to completely weathered rock fragments	.....				
.....	Neat Cement Grout		Lean CLAY (CL), olive, stiff, dry	.....				
.....			25			BR11-1SB013[25]		
.....	Silty GRAVEL (GM) with intermittent layers of silty lean clay	.....				
.....	30					
.....		Well graded GRAVEL (GW), gray, completely weathered rock fragments, medium dense, dry	.....				
.....	0.8			BR11-1SB013[30]		
.....		Clayey SAND (SC) with intermittent layers of sandy clay, dark reddish brown, some completely weathered gray rock, medium	.....				
.....					



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB013			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner	START-FINISH DATE 6/5/18 - 6/5/18
ELEVATION OF: GROUND SURFACE (ft above MSL)	GW SURFACE (ft above MSL)	DATE OF GW MEASUREMENT	NORTHING/ EASTING
(FT. ABOVE NAVD 88) 83.8	Not Encountered	6/5/18	5995187.185/ 2119963.934

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks	
35			dense	35	1.2	BR11-1SB013[35]	
			Silty lean CLAY (CL), light brownish gray, stiff, dry (dusty)				
			Sandy SILT (ML) with very fine sand, brownish gray, hard, dry				
40				Clayey GRAVEL (GC) with intermittent layers of lean clay with sand and fine gravel, sandy clay, and silty clay	40	0.9	BR11-1SB013[40], Dup
			Silt (ML) with intermittent layers of silty gravel, gray, hard, dry				
45			Silty GRAVEL (GM) with intermittent layers of clayey gravel, clayey fine sand, and clayey silt, completely weathered rock	45	0.0	BR11-1SB013[45]	
50			Bottom of borehole at 50 feet.	50	0.0	BR11-1SB013[50]	

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB014			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner	START-FINISH DATE 6/4/18 - 6/4/18
ELEVATION OF: GROUND SURFACE (ft above MSL)	GW SURFACE (ft above MSL)	DATE OF GW MEASUREMENT	NORTHING/ EASTING
(FT. ABOVE NAVD 88) 83.0	Not Encountered	6/4/18	5995182.979/ 2119980.584

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\RILEY AVE.GPJ

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
			Organic SILT and silty CLAY (OL), top soil, dark brown, some fine sand, trace fine gravel, abundant organic plant matter and wood chips, soft, moist			
			Lean CLAY (CL), reddish brown, soft to medium stiff, very slightly moist to dry			
			Lean CLAY (CL), reddish brown with some black flecks attributed to fire, stiff, dry	5.3		BR11-1SB014[3]
5				5		
			Lean CLAY (CL), reddish brown with some black flecks attributed to fire, occasional gray CaCO3 veins, stiff, dry	0.2		BR11-1SB014[5]
			Lean CLAY (CL), reddish brown with some black flecks attributed to fire, occasional gray CaCO3 veins, medium stiff, increasing moisture	0.0		BR11-1SB014[7]
10				10		
			Lean CLAY (CL), reddish brown with some black flecks attributed to fire, occasional gray CaCO3 veins, soft, more moisture	0.0		BR11-1SB014[10]
			Sandy CLAY (CL), dark reddish and brown, stiff to very stiff, moist			
15				15		
			Poorly graded fine clayey SAND (SC), dark reddish and brown, stiff to very stiff, moist	0.0		BR11-1SB014[15]
			Sandy SILT (ML) with intermittent layers of silty fine sand, loose, moist	20		
20				20	0.0	BR11-1SB014[20], Dup
			Lean CLAY (CL), dark brown and gray, some CaCO3 veins, stiff, dry			
25				25		
			SANDSTONE, dark reddish brown, severely and completely weathered, refusal	0.0		BR11-1SB014[25]
			Bottom of borehole at 26 feet.			

Neat Cement Grout



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB015			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push		BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner
ELEVATION OF: GROUND SURFACE (ft above MSL) 79.7		GW SURFACE (ft above MSL) 38.7	DATE OF GW MEASUREMENT 6/5/18
(FT. ABOVE NAVD 88)		NORTHING/ EASTING 5995231.162/ 2120030.951	

SOIL BORING LOG - LOG A EWNN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
0			Organic SILT and silty CLAY (OL), top soil, dark brown, some fine sand, trace fine gravel, abundant organic plant matter and wood chips, soft, moist			
0			Lean CLAY (CL), brownish-red, medium stiff, slightly moist			
5			Lean CLAY (CL), brown, medium stiff, slightly moist	5	0.0	BR11-1SB015[3]
5				5	0.0	BR11-1SB015[5]
5				5	0.0	BR11-1SB015[7]
10			Lean CLAY (CL), brown, increasing fine sand, medium stiff, slightly moist	10	0.0	BR11-1SB015[10]
15			Sandy lean CLAY (CL), dark brown, medium stiff, moist	15	0.0	BR11-1SB015[15]
20			Poorly graded fine silty SAND (SM), brown, dense, very slightly moist	20	0.0	BR11-1SB015[20]
20			Poorly graded fine SAND (SP), brown, medium dense, slightly moist	20	0.0	BR11-1SB015[20]
25				25	0.0	BR11-1SB015[25]
30			Poorly graded fine SAND (SP), brown, increasing silt, minor clay, medium dense, slightly moist	30	0.0	BR11-1SB015[30]
30			Poorly graded fine SAND (SP), brown, increasing silt, minor clay, medium dense, moist	30	0.0	BR11-1SB015[30]

Neat Cement Grout



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB015			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner	START-FINISH DATE 6/5/18 - 6/5/18
ELEVATION OF: GROUND SURFACE (ft above MSL) (FT. ABOVE NAVD 88)	GW SURFACE (ft above MSL) 79.7	DATE OF GW MEASUREMENT 6/5/18	NORTHING/ EASTING 5995231.162/ 2120030.951

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
35			Poorly graded fine to medium silty SAND (SM), medium dense, saturated	35	0.0	BR11-1SB015[35], Dup
40				40	0.0	BR11-1SB015[40]
45				45	0.0	BR11-1SB015[45]
			Lean CLAY (CL), dull olive, hard, dry	Bottom of borehole at 45 feet.		

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB016		LOCATION The Presidio	
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		APPROVED BY Michael Patinkin	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push		BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner
ELEVATION OF: GROUND SURFACE (ft above MSL) 80.3		GW SURFACE (ft above MSL) Not Encountered	DATE OF GW MEASUREMENT 6/6/18
		NORTHING/ EASTING 5995235.827/ 2120009.007	

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
0.0			Organic SILT and silty CLAY (OL), top soil, dark brown, some fine sand, trace fine gravel, abundant organic plant matter and wood chips, soft, moist	0.0		BR11-1SB016[3]
5.0			Fat CLAY (CH), abundant organic matter, soft, moist	5.0		
5.0			Organic silty CLAY (OL), abundant organic matter, soft, moist	5.0		
5.0			Lean CLAY (CL), dull olive, some medium sand, trace fine sub-angular gravel, very slightly moist	5.0		BR11-1SB016[5]
2.0			Lean CLAY (CL), dull olive with orange stringers and trace gray CaCO3 blebs, some medium sand, trace fine sub-angular gravel, very slightly moist	2.0		BR11-1SB016[7]
10.0			Sandy lean CLAY (CL), gray, mild petroleum odor, soft, moist	10.0		BR11-1SB016[10], Dup
15.0			Lean CLAY (CL) with fine sand, very stiff, slightly moist	15.0		
15.0			Clayey SAND (SC), dark gray, moderate petroleum odor, medium dense, moist	15.0	40.0	BR11-1SB016[15]
20.0	Neat Cement Grout		Silty SAND (SM), light brown, medium dense, moist	20.0		
20.0			Silty fine SAND (SM), brown, medium dense, moist	20.0	0.0	BR11-1SB016[20]
25.0			Silty fine SAND (SM), dark gray, heavy Fe staining, medium dense, moist	25.0		
25.0			Lean CLAY (CL), soft, moist	25.0		
25.0			Silty fine SAND (SM), brown, heavy Fe staining, increasing silt, trace sub-angular gravel, dense, moist	25.0	0.0	BR11-1SB016[25]
30.0			Sandy SILT (ML), light brown, dense, moist	30.0	0.0	BR11-1SB016[30]





SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB016			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner	START-FINISH DATE 6/6/18 - 6/6/18

ELEVATION OF: GROUND SURFACE (ft above MSL)	GW SURFACE (ft above MSL)	DATE OF GW MEASUREMENT	NORTHING/ EASTING
(FT. ABOVE NAVD 88) 80.3	Not Encountered	6/6/18	5995235.827/ 2120009.007

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
--------------	-----------------------------	-------------	--------------------	--------------	-----------	---------

35			Bottom of borehole at 35 feet.	35	0.0	BR11-1SB016[35]
----	---	---	--------------------------------	----	-----	-----------------



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB017		LOCATION The Presidio	
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		APPROVED BY Michael Patinkin	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push		BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner
ELEVATION OF: GROUND SURFACE (ft above MSL) 80.5		GW SURFACE (ft above MSL) 39.5	DATE OF GW MEASUREMENT 6/6/18
(FT. ABOVE NAVD 88)		NORTHING/ EASTING 5995238.081/ 2120001.223	

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
0			Organic SILT and silty CLAY (OL), top soil, dark brown, some fine sand, trace fine gravel, abundant organic plant matter and wood chips, soft, moist	0.0		BR11-1SB017[3]
5			Lean CLAY (CL), dull olive with orange stringers, soft, moist	5		BR11-1SB017[5]
			Lean CLAY (CL), olive, stiff, slightly moist	0.0		BR11-1SB017[7]
10			Lean CLAY (CL), reddish brown, stiff, slightly moist	10		BR11-1SB017[10]
15			Clayey fine SAND (SC) with intermittent layers of stiff to very stiff sandy lean clay, dark reddish brown, medium dense, moist	15	0.0	BR11-1SB017[15]
20			Sandy SILT (ML) with intermittent layers of silty fine sand, dark reddish brown, dense, moist	20	40.0	BR11-1SB017[20], Dup
	Neat Cement Grout		Sandy lean CLAY (CL) with intermittent layers of loose clayey sand, olive brown, soft, moist			
25			Poorly graded fine to medium SAND (SP), olive brown, dense, moist	25	0.1	BR11-1SB017[25]
			Poorly graded fine to medium SAND (SP), olive brown, medium dense, moist			
30			Poorly graded fine to medium SAND (SP), brown, increasing silt, medium dense, moist	30	0.0	BR11-1SB017[30]
			Poorly graded fine to medium SAND (SP), brown, increasing silt and clay, dense, moist			

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB017			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner	START-FINISH DATE 6/6/18 - 6/6/18
ELEVATION OF: GROUND SURFACE (ft above MSL) (FT. ABOVE NAVD 88)	GW SURFACE (ft above MSL) 80.5	DATE OF GW MEASUREMENT 6/6/18	NORTHING/ EASTING 5995238.081/ 2120001.223

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks	
35				35	0.0	BR11-1SB017[35]	
			Fine to medium silty SAND (SM), dark brown, minor clay, medium dense, moist				
40				40	0.0	BR11-1SB017[40]	
			Poorly graded fine to medium SAND (SP), brown, loose, saturated				
			Bottom of borehole at 43 feet.				

GROUND WATER LEVEL
6/6/18

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB018			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner	START-FINISH DATE 6/28/18 - 6/28/18
ELEVATION OF: GROUND SURFACE (ft above MSL) (FT. ABOVE NAVD 88)	GW SURFACE (ft above MSL) 81.0	DATE OF GW MEASUREMENT 6/28/18	NORTHING/ EASTING 5995227.652/ 2119998.282

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks		
5			Fat CLAY (CH) with lean clay, black, abundant organic material including mulch and woodchips, soft, dry	.....			
			Lean CLAY (CL), dark brown, medium stiff, moist	.....	0.0	BR11-1SB018[3]	
			Sandy lean CLAY (CL) with trace gravel, dark gray, soft, saturated (irrigation seep water suspected)	<u>5</u>	0.0	BR11-1SB018[5]	
			Silty CLAY (CL), dark gray, moderate odor, medium stiff, moist		70	BR11-1SB018[7]	
10			COLMA FORMATION: Poorly graded fine SAND (SP), dark olive, dense, moist	<u>10</u>	100	BR11-1SB018[10]	
15				<u>15</u>	255	BR11-1SB018[15], Dup	
20			Neat Cement Grout	Poorly graded fine SAND (SP), brown, some Fe staining, medium dense, mild odor, slightly moist	<u>20</u>	1.0	BR11-1SB018[20]
25				Poorly graded very fine silty SAND (SM), light gray, trace Fe staining, medium dense, moist	<u>25</u>		BR11-1SB018[25]
				Poorly graded very fine SAND (SP) with some well rounded fine gravel and silt, light olive, numerous Fe stains, medium dense, moist		2.0	BR11-1SB018[25]
30				Poorly graded increasingly coarse SAND (SP) with increasing fine gravel, light olive, numerous Fe stains, medium dense, moist	<u>30</u>		
		Poorly graded coarse SAND (SP) with fine gravel and increasing silt, light olive, numerous Fe stains, medium dense, moist		0.0	BR11-1SB018[30]		
		Poorly graded very fine SAND (SP) with silt, reddish brown, medium dense, moist					

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB018			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner	START-FINISH DATE 6/28/18 - 6/28/18
ELEVATION OF: GROUND SURFACE (ft above MSL) (FT. ABOVE NAVD 88)	GW SURFACE (ft above MSL) 81.0	DATE OF GW MEASUREMENT 6/28/18	NORTHING/ EASTING 5995227.652/ 2119998.282

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
35			SILT (ML), dark brown, loose, moist to wet	35	0.0	Bottom of borehole at 35 feet. BR11-1SB018[35]

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB019			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push		BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner
ELEVATION OF: GROUND SURFACE (ft above MSL) 77.0		GW SURFACE (ft above MSL) Not Encountered	DATE OF GW MEASUREMENT 6/28/18
(FT. ABOVE NAVD 88)		NORTHING/ EASTING 5995264.657/ 2120112.584	

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks	
.....			Clayey SILT (ML), topsoil, black, some brick fragments, dry, soft	.....	.....
.....			.....	.....	0.0	BR11-1SB019[3]	
5			.....	Lean CLAY (CL), dark brown, some carbon residue, soft, wet	5	0.0	BR11-1SB019[5]
.....			.....	.....	.....	0.0	BR11-1SB019[7]
10			.....	Lean CLAY (CL), brown, carbon residue, stiff, dry	10	0.0	BR11-1SB019[10]
.....			.....	Lean CLAY (CL), light reddish brown, Fe staining, stiff, slightly moist	.....	.....
15			.....	Lean CLAY (CL), light reddish brown, Fe staining, increasing very fine sand and silt, stiff, slightly moist	15	0.0	BR11-1SB019[15], Dup
.....			.....	Lean CLAY (CL) with some very fine sand, medium stiff, slightly moist	.....	.....
20			.....	Lean CLAY (CL) with increasing fine sand, medium stiff, moist	.....	.....
.....			.....	Fine clayey SAND (SC), brown with Fe stains, medium dense, slightly moist	20	0.0	BR11-1SB019[20]
.....	COLMA FORMATION: Poorly graded fine SAND (SP) with some clay, grayish-olive, loose	.....	.....	
.....	Poorly graded very fine to fine SAND (SP) with some silt and Fe staining, medium dense	.....	.....	
25	Poorly graded very fine to fine SAND (SP) with some silt, Fe staining, and Mn dots, trace severely weathered sub-angular fine gravel, medium dense	25	0.0	BR11-1SB019[25]		
.....			
30	30	0.0	BR11-1SB019[30]	
.....			
.....	Poorly graded very fine to fine SAND (SP) with some silt, Fe staining, and Mn dots, trace severely weathered sub-angular fine	.....	.....

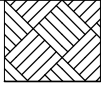
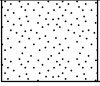
Neat Cement Grout



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB019			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner	START-FINISH DATE 6/28/18 - 6/28/18

ELEVATION OF: GROUND SURFACE (ft above MSL)	GW SURFACE (ft above MSL)	DATE OF GW MEASUREMENT	NORTHING/ EASTING
(FT. ABOVE NAVD 88) 77.0	Not Encountered	6/28/18	5995264.657/ 2120112.584

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
35			gravel, medium dense, wet	35	0.0	Bottom of borehole at 35 feet.

BR11-1SB019[35]

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB020			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push		BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner
ELEVATION OF: GROUND SURFACE (ft above MSL) 75.6		GW SURFACE (ft above MSL) Not Encountered	DATE OF GW MEASUREMENT 6/27/18
(FT. ABOVE NAVD 88)		NORTHING/ EASTING 5995280.268/ 2120106.566	

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks
0.0			Fat CLAY (CH) with intermittent lean clay, potting soil with wood chips, black, soft, moist	0.0		BR11-1SB020[3]
0.0			Clayey SILT (ML) with intermittent sandy silt, black, soft, slightly moist	0.0		
5			Lean CLAY (CL), reddish brown with orange Fe staining, medium stiff, moist	5		BR11-1SB020[5]
7			Lean CLAY (CL), reddish brown with orange Fe staining, stiff to very stiff, moist	7		BR11-1SB020[7]
10			Sandy CLAY (CL), brown, very stiff, dry	10		BR11-1SB020[10]
15			Sandy CLAY (CL), reddish brown, Fe stained, stiff, moist	15		BR11-1SB020[15]
20			COLMA FORMATION: Clayey SAND (SC), reddish, dense, slightly moist	20		BR11-1SB020[20], Dup
25			Clayey SAND (SC), dull olive, dense, slightly moist	25		
25			Poorly graded fine to medium SAND (SP), grayish olive, minor clay, medium dense, slightly moist	25		BR11-1SB020[25]
25			Poorly graded fine to medium SAND (SP), grayish olive, minor clay, some suspected carbon deposits, medium dense, increasing moisture	25		
30			Poorly graded SAND (SP) with some stiff to very stiff clay, brownish red, medium dense	30		
30	Neat Cement Grout		Poorly graded SAND (SP) with minor very stiff to hard clay, brownish red, medium dense	30		BR11-1SB020[30]



SOIL BORING LOG

BOREHOLE NUMBER BR11-1SB020			
PROJECT NUMBER / NAME 285830 / BR11-1 Riley Ave		LOCATION The Presidio	
APPROVED BY Michael Patinkin		San Francisco, California	
DRILLING CONTRACTOR / DRILLER Penecore / Jorge Ornelas		LOGGED BY Nathan Berube	
DRILLING EQUIPMENT / METHOD Geoprobe 8040DT / Direct Push	BIT SIZE / BIT TYPE 2.25" / Cutting Shoe	SAMPLING METHOD 5' Acetate Liner	START-FINISH DATE 6/27/18 - 6/27/18
ELEVATION OF: GROUND SURFACE (ft above MSL) (FT. ABOVE NAVD 88)	GW SURFACE (ft above MSL) 75.6	DATE OF GW MEASUREMENT 6/27/18	NORTHING/ EASTING 5995280.268/ 2120106.566

Depth (feet)	Borehole Completion Details	Graphic Log	Visual Description	Depth (feet)	PID (ppm)	Remarks	
35			Poorly graded SAND (SP) with increasing clay, well-rounded coarse sand, and suspected Mn deposits, brownish red, medium dense	35	0.0	BR11-1SB020[35]	
			Poorly graded SAND (SP), grayish olive, medium dense, moist				
40			SILT (ML) with very fine sand, reddish olive, dense to very dense, slightly moist	40	0.0	BR11-1SB020[40], Dup	
			Very fine silty SAND (SM), olive brown, loose, dry				
45				45	0.0	BR11-1SB020[45]	
			Very fine silty SAND (SM), olive brown, loose, slightly moist and increasing moisture				
50		50	0.0	BR11-1SB020[50]			
			Very fine silty SAND (SM), light brown, loose, dry but increasing moisture				
55		55	0.0	Not Collected			

Bottom of borehole at 57.5 feet.

SOIL BORING LOG - LOG A EWINN08.GDT - 7/26/18 16:05 - \\SANFRAN-FP1\APPS\GINT\PRESIDIO\RILEY\PRESIDIO - RILEY AVE.GPJ

ATTACHMENT B
Well Development and Sampling Records



Project: BR11-1 SUPP SOIL & GW WY Project No.: 200930.020 Date/Time: 06/29/18 Sheet 1 of 1

TRC Personnel: N BERUBE ; M PATINKIN

Well Development Form

Well Identification: BR11-14W01

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up (from ground) FLUSH ft.

Well Depth 35 ft. top of riser measured top of casing historical

Riser Stick-up (from ground) -0.5 ft.

Water Depth 23.18 ft.

WELL DIAMETER 2 inch 4 inch 6 inch

Height of Water Column 11.82 ft. x .16 gal/ft (2 in.) .65 gal/ft (4 in.) 1.5 gal/ft (6 in.) gal/ft (in.)

PID SCREENING MEAS.

Background	<u>0.0</u>
Well Mouth	<u>0.0</u>

WELL MATERIAL

PVC SS

Volume of Water in Well = 1.89 gallon(s)
20 Total gallons purged
[Vol. = r²h(0.163)]

FIELD WATER QUALITY MEASUREMENTS

Time	1210	1215	1220	1225	1230	1235	1240	1245	1250
pH (Std. Units)		<u>7.07</u>	<u>6.83</u>	<u>6.82</u>	<u>6.79</u>	<u>6.76</u>	<u>6.81</u>	<u>6.76</u>	<u>6.78</u>
Eh (millivolts)		<u>113.7</u>	<u>117.6</u>	<u>114.6</u>	<u>114.0</u>	<u>113.0</u>	<u>107.5</u>	<u>114.0</u>	<u>117.0</u>
Conduct. (µmhos/cm)		<u>1300</u>	<u>1241</u>	<u>1267</u>	<u>1259</u>	<u>1241</u>	<u>1260</u>	<u>1242</u>	<u>1229</u>
Temp. (C)		<u>62.0</u>	<u>67.81</u>	<u>67.58</u>	<u>68.19</u>	<u>68.05</u>	<u>68.60</u>	<u>64.76</u>	<u>61.92</u>
Turb. (NTU)		<u>536.5</u>	<u>306.4</u>	<u>303.7</u>	<u>221.4</u>	<u>206.8</u>	<u>191.6</u>	<u>540.6</u>	<u>388.4</u>
DO (mg/l)		<u>1.55</u>	<u>0.67</u>	<u>1.70</u>	<u>1.00</u>	<u>1.44</u>	<u>1.35</u>	<u>1.05</u>	<u>1.62</u>
Purge Volume (gal.)		<u>1.85</u>	<u>3.7</u>	<u>5.55</u>	<u>7.4</u>	<u>9.25</u>	<u>11.1</u>	<u>13</u>	<u>18</u>
Estimated purge rate (gpm)		<u>0.37</u>	<u>0.37</u>	<u>0.37</u>	<u>0.37</u>	<u>0.37</u>	<u>0.37</u>	<u>1</u>	<u>1</u>
Static (pre-pumping) Depth to Water (ft)	<u>23.10</u>	-	-	-	-	-	-	-	-
Pumping Depth to Water (ft)	-	-	-	-	-	-	-	-	-

Time									
pH (Std. Units)									
Eh (millivolts)									
Conduct. (µmhos/cm)									
Temp. (C)									
Turb. (NTU)									
DO (mg/l)									
Purge Volume (gal.)									
Estimated purge rate (gpm)									
Static (pre-pumping) Depth to Water (ft)									
Pumping Depth to Water (ft)									

EQUIPMENT USED: GRUNDOS, YSI, PID, TURBIDIMETER (HF SCI)

NOTES/COMMENTS: 1243 FLOW CRANKED UP TO: 15 FL OZ/7 S = 1 GPM



Project: BR11-1 SUPP Project No.: 2558320209 Date/Time: 06/29/18 Sheet 1 of 1
SOIL X ANALYSIS

TRC Personnel: N BERUBE ; M PATINKIN

Well Development Form

Well Identification: BR11-14W02

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up (from ground) PUSH ft.

Well Depth 60.05 ft. top of riser measured
 top of casing historical

Riser Stick-up (from ground) 0.5 ft.

Water Depth 56.80 ft.

WELL DIAMETER 2 inch 4 inch 6 inch

Height of Water Column 3.25 ft. x .16 gal/ft (2 in.)
 .65 gal/ft (4 in.)
 1.5 gal/ft (6 in.)
 gal/ft (in.)

PID SCREENING MEAS.

Background	<u>0.0</u>
Well Mouth	<u>0.0</u>

WELL MATERIAL

PVC SS

Volume of Water in Well = 0.52 gallon(s)
8.5 Total gallons purged
 [Vol. = r²h(0.163)]

FIELD WATER QUALITY MEASUREMENTS

Time	1310	1320	1325	1330	1335	1340	1345	1350
pH (Std. Units)		<u>7.40</u>	<u>7.23</u>	<u>7.11</u>	<u>7.07</u>	<u>7.03</u>	<u>7.07</u>	<u>7.01</u>
Eh (millivolts)		<u>136.7</u>	<u>134.6</u>	<u>129.5</u>	<u>127.6</u>	<u>124.4</u>	<u>125.1</u>	<u>126.5</u>
Conduct. (µmhos/cm)		<u>880</u>	<u>910</u>	<u>862</u>	<u>805</u>	<u>781</u>	<u>764</u>	<u>758</u>
Temp. (C)		<u>70.57</u>	<u>70.37</u>	<u>70.16</u>	<u>70.97</u>	<u>71.69</u>	<u>71.64</u>	<u>71.33</u>
Turb. (NTU)		<u>1060</u>	<u>378.3</u>	<u>85.12</u>	<u>30.50</u>	<u>17.41</u>	<u>11.01</u>	<u>5387</u>
DO (mg/l)		<u>6.77</u>	<u>4.10</u>	<u>3.20</u>	<u>3.16</u>	<u>2.94</u>	<u>3.80</u>	<u>3.49</u>
Purge Volume (gal.)		<u>0.81</u>	<u>52.16</u>	<u>73.51</u>	<u>74.86</u>	<u>76.21</u>	<u>7</u>	<u>8</u>
Estimated purge rate (gpm)		<u>0.27</u>	<u>0.27</u>	<u>0.27</u>	<u>0.27</u>	<u>0.27</u>	<u>0.20</u>	<u>0.20</u>
Static (pre-pumping) Depth to Water (ft)	<u>56.75</u>	-	-	-	-	-	-	-
Pumping Depth to Water (ft)	<u>5</u>	-	-	-	-	-	-	-
Time								
pH (Std. Units)								
Eh (millivolts)								
Conduct. (µmhos/cm)								
Temp. (C)								
Turb. (NTU)								
DO (mg/l)								
Purge Volume (gal.)								
Estimated purge rate (gpm)								
Static (pre-pumping) Depth to Water (ft)								
Pumping Depth to Water (ft)								

EQUIPMENT USED:

NOTES/COMMENTS: 1317 START FLOW @ 15 FL OZ / 20 S = 0.27 GPM
1327 SHEEN OBSERVED IN DISCHARGE BUCKET
1343 FLOW REMEASURED @ 0.20 GPM



Groundwater Field Data Record

Project: Riley Avenue Project No.: 285830.02.01 Date/Time: 7/6/18 Sheet 1 of 1
 Soil/GW Investigation
 TRC Personnel: Kevin Li, Nate Berube Well ID: BR11-16W01

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up _____ ft. (from ground)
 Riser Stick-up _____ ft. (from ground)
 WELL DIAMETER 2 inch 4 inch 6 inch
 Other: _____

Well Depth 35 ft. top of riser measured
 top of casing historical

Water Depth 23.3 ft. LNAPL/DNAPL Depth = _____
 Well Volume _____ NAPL Thickness = _____

Sampling Equipment: _____

Flow-thru Cell Volume: _____

PID SCREENING MEAS.

Background	
Well Mouth	

WELL MATERIAL

PVC SS
 Other: _____

Depth of pump intake: _____

Static water level after pump put into well: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Adjusted purge Rates/time/WL(record changes) _____

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals) Sample

Time	14:44	14:51	14:58	15:03	15:06			
Temp. (°F)	69.72	68.52	67.03	67.31				
Conduct. (µmhos/cm)	126.1	121.4	121.1	120.8				
DO (mg/L)	1.26	0.59	0.41	0.35				
pH (su)	7.40	7.08	7.04	7.02				
ORP (millivolts)	196.5	168.1	156.1	150.5				
Turbidity (NTU)	420.7	149.5	98.7	47.2				
Flow (ml/min)	2960	1063.5	1315.5	1280.7				
Depth To Water (ft)	23.3	23.3	23.3	23.3				
Cumulative Purge Vol. (gal or L)	5.61	5.61	5.61	5.61				

Time						Stabilization Criteria* (3 consecutive readings) - Temperature: ± 3 % - Conduct. (µmhos/cm): ± 3 % - DO (mg/L): ± 10 % (for values >0.5 mg/L) - pH (Std. Units): ± 0.1 SU - ORP (millivolts): ± 10 mV - Turbidity (NTU): +/- 10 % (for values >5.0 NTUs) - Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)
Temp. (°C)						
Conduct. (µmhos/cm)						
DO (mg/L)						
pH (Std. Units)						
Eh/ORP (millivolts)						
Turbidity (NTU)						
Flow (ml/min)						
Depth To Water (ft)						
Cumulative Purge Vol. (gal or L)						

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<u>clear water</u>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #



Groundwater Field Data Record

Project: *Ripley Avenue Soil/Low Investigation* Project No.: *285830.02.01* Date/Time: *7/6/18* Sheet *1* of *1*

TRC Personnel: *Kevin Li, Nate Bernabe* Well ID: *BR-11-1GW02*

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sampling Equipment: _____

Flow-thru Cell Volume: _____

PID SCREENING MEAS.

Background	
Well Mouth	

Protective Casing Stick-up _____ ft. (from ground)

Riser Stick-up _____ ft. (from ground)

WELL DIAMETER 2 inch 4 inch 6 inch

Other: _____

WELL MATERIAL

PVC SS

Other: _____

Well Depth *60.1* ft. top of riser measured top of casing historical

Water Depth *56.88* ft. LNAPL/DNAPL Depth = _____

Well Volume _____ NAPL Thickness = _____

Depth of pump intake: _____

Static water level after pump put into well: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Adjusted purge Rates/time/WL(record changes) _____

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS *Sample* (record at appropriate intervals)

Time	<i>15:38</i>	<i>16:35</i>						
Temp. (°) °F	<i>67.01</i>							
Conduct. (µmhos/cm)	<i>736</i>							
DO (mg/L)	<i>3.53</i>							
pH (su)	<i>7.43</i>							
ORP (millivolts)	<i>156.1</i>							
Turbidity (NTU)	<i>286.6</i>							
Flow (ml/min)	<i>100</i>							
Depth To Water (ft)	<i>56.88</i>							
Cumulative Purge Vol. (gal or L)	<i>1.56</i>							

Time								
Temp. (°C)								
Conduct. (µmhos/cm)								
DO (mg/L)								
pH (Std. Units)								
Eh/ORP (millivolts)								
Turbidity (NTU)								
Flow (ml/min)								
Depth To Water (ft)								
Cumulative Purge Vol. (gal or L)								

Stabilization Criteria* (3 consecutive readings)

- Temperature: ± 3 %
- Conduct. (µmhos/cm): ± 3 %
- DO (mg/L): ± 10 % (for values >0.5 mg/L)
- pH (Std. Units): ± 0.1 SU
- ORP (millivolts): ± 10 mV
- Turbidity (NTU): +/- 10 % (for values >5.0 NTUs)
- Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<i>Minimal Flow. one purge volume</i>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #



Groundwater Field Data Record

Project: Riley Avenue 30.1/6w Investigation Project No.: 285830.02.01 Date/Time: 7/6/18 Sheet 1 of 1

TRC Personnel: Kevin Li, Nate Berube Well ID: BR11-16W03

WELL INTEGRITY

Table with 2 columns: YES, NO. Rows include Protect. Casing Secure, Concrete Collar Intact, PVC Stick-up Intact, Well Cap Present, Security Lock Present.

Sampling Equipment:

Flow-thru Cell Volume:

PID SCREENING MEAS.

Table with 2 columns: Background, Well Mouth.

Protective Casing Stick-up (from ground) _____ ft.

Riser Stick-up (from ground) _____ ft.

WELL DIAMETER [X] 2 inch [] 4 inch [] 6 inch Other: _____

WELL MATERIAL

[X] PVC [] SS Other: _____

Well Depth 45 ft. [X] top of riser [] measured [] top of casing [] historical

Water Depth 34.06 ft. LNAPL/DNAPL Depth = _____ Well Volume _____ NAPL Thickness = _____

Depth of pump intake: _____ Static water level after pump put into well: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Adjusted purge Rates/time/WL(record changes)

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals)

Table with columns for Time, Temp. (°F), Conduct. (µmhos/cm), DO (mg/L), pH (su), ORP (millivolts), Turbidity (NTU), Flow (ml/min), Depth To Water (ft), Cumulative Purge Vol. (gal or L). Includes handwritten data for samples at 9:26, 9:30, 9:34, and 9:40.

Table for Stabilization Criteria* (3 consecutive readings) with rows for Temp. (°C), Conduct. (µmhos/cm), DO (mg/L), pH (Std. Units), Eh/ORP (millivolts), Turbidity (NTU), Flow (ml/min), Depth To Water (ft), Cumulative Purge Vol. (gal or L).

Table with columns: Purge, Sample, Comments. Includes handwritten note 'slightly turbid'.

Table with columns: Analytical Parameter, Filtered (Y/N), Preservation, # Bottles, Size/Type Bottles, Time Collected, QC, Sample #.



Project: *Riley Ave Project No.: soil/GW Investigation 285830.02A.01* Date/Time: *10/3/18* Sheet *1* of *1*

Groundwater Field Data Record

TRC Personnel: *Kevin Li, Nate Berube* Well ID: *BR11-1GW01*

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up _____ ft. (from ground)

Well Depth *35* ft. top of riser measured top of casing historical

Riser Stick-up _____ ft. (from ground)

Water Depth *24.05* ft. LNAPL/DNAPL Depth = _____
Well Volume _____ NAPL Thickness = _____

Sampling Equipment: _____

WELL DIAMETER 2 inch 4 inch 6 inch
Other: _____

Depth of pump intake: _____
Static water level after pump put into well: _____

Flow-thru Cell Volume: _____

PID SCREENING MEAS.

Background	
Well Mouth	<i>0.0</i>

WELL MATERIAL

PVC SS
Other: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Adjusted purge Rates/time/WL(record changes)

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals) *sampled*

Time	<i>10:50</i>	<i>10:54</i>	<i>10:57</i>	<i>11:00</i>	<i>11:10</i>	<i>11:10</i>			
Temp. (<i>X</i>) °F	<i>64.91</i>	<i>64.80</i>	<i>64.84</i>	<i>64.20</i>	<i>64.6</i>				
Conduct. (µmhos/cm)	<i>1441</i>	<i>1277</i>	<i>1219</i>	<i>1175</i>	<i>1175</i>				
DO (mg/L)	<i>9.4</i>	<i>0.75</i>	<i>0.68</i>	<i>0.59</i>	<i>0.40</i>				
pH (su)	<i>6.96</i>	<i>6.93</i>	<i>6.90</i>	<i>6.87</i>	<i>6.85</i>				
ORP (millivolts)	<i>114.2</i>	<i>115.7</i>	<i>118.8</i>	<i>122.0</i>	<i>122.1</i>				
Turbidity (NTU)	<i>878</i>	<i>803</i>	<i>374</i>	<i>124.6</i>	<i>31.49</i>				
Flow (ml/min)	<i>800</i>	<i>900</i>	<i>2600</i>	<i>2400</i>	<i>2220</i>				
Depth To Water (ft)	<i>24.05</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>26.18</i>			
Cumulative Purge Vol. (gal or L)	<i>0.5</i>	<i>1.0</i>	<i>2.5</i>	<i>4.0</i>	<i>6.5</i>				

Time									
Temp. (°C)									
Conduct. (µmhos/cm)									
DO (mg/L)									
pH (Std. Units)									
Eh/ORP (millivolts)									
Turbidity (NTU)									
Flow (ml/min)									
Depth To Water (ft)									
Cumulative Purge Vol. (gal or L)									

Stabilization Criteria*
(3 consecutive readings)
- Temperature: ± 3 %
- Conduct. (µmhos/cm): ± 3 %
- DO (mg/L): ± 10 % (for values >0.5 mg/L)
- pH (Std. Units): ± 0.1 SU
- ORP (millivolts): ± 10 mV
- Turbidity (NTU): +/- 10 % (for values >5.0 NTUs)
- Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)

Purge Sample Comments: *light yellowish brown, no sheen, no odor*

Peristaltic Pump

Submersible Pump

Bladder Pump

Bailer

Other: _____

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #



Project: *Riley Ave* Project No.: *285830.02A.01*
Soil/GW Investigation

Date/Time: *10/3/18*

Sheet *1* of *1*

Groundwater Field Data Record

TRC Personnel: *Kevin Li, Nate Berube*

Well ID: *BR11-1GW02*

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up _____ ft. (from ground)

Well Depth *60.1* ft. top of riser measured
 top of casing historical

Riser Stick-up _____ ft. (from ground)

Water Depth *57.3* ft. LNAPL/DNAPL Depth = _____
 Well Volume _____ NAPL Thickness = _____

WELL DIAMETER 2 inch
 4 inch
 6 inch
 Other: _____

Depth of pump intake: _____
 Static water level after pump put into well: _____

Sampling Equipment: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Flow-thru Cell Volume: _____

Adjusted purge Rates/time/WL(record changes)

PID SCREENING MEAS.

Background	
Well Mouth	<i>37.3</i>

WELL MATERIAL

PVC SS
 Other: _____

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate ^{Sample} intervals)

Time	<i>12:08</i>	<i>12:15</i>	<i>12:28</i>	<i>12:30</i>				
Temp. (^o F)	<i>64.54</i>	<i>63.91</i>	<i>63.49</i>					
Conduct. (μ mhos/cm)	<i>744</i>	<i>717</i>	<i>724</i>					
DO (mg/L)	<i>13.3</i>	<i>2.86</i>	<i>2.65</i>					
pH (su)	<i>7.36</i>	<i>7.05</i>	<i>7.01</i>					
ORP (millivolts)	<i>144.2</i>	<i>131.0</i>	<i>126.1</i>					
Turbidity (NTU)	<i>432.7</i>	<i>467.8</i>	<i>592.9</i>					
Flow (ml/min)	<i>-</i>	<i>-</i>	<i>-</i>					
Depth To Water (ft)	<i>57.3</i>	<i>-</i>	<i>-</i>	<i>57.34</i>				
Cumulative Purge Vol. (gal or L)								

Time									Stabilization Criteria* (3 consecutive readings) - Temperature: \pm 3 % - Conduct. (μ mhos/cm): \pm 3 % - DO (mg/L): \pm 10 % (for values >0.5 mg/L) - pH (Std. Units): \pm 0.1 SU - ORP (millivolts): \pm 10 mV - Turbidity (NTU): \pm 10 % (for values >5.0 NTUs) - Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)
Temp. (^o C)									
Conduct. (μ mhos/cm)									
DO (mg/L)									
pH (Std. Units)									
Eh/ORP (millivolts)									
Turbidity (NTU)									
Flow (ml/min)									
Depth To Water (ft)									
Cumulative Purge Vol. (gal or L)									

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<i>fairly turbid, used a bailer to sample</i>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #

• Consult the applicable regulatory guidance for the specific criteria.

Signed: _____



Project: *Riley Ave* Project No.: _____ Date/Time: *10/3/18*
Soil/GW Investigation 285830.02A.01 Sheet 1 of 1

Groundwater Field Data Record

TRC Personnel: *Kevin Li, Nate Barube* Well ID: *BR11-1GW03*

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sampling Equipment: _____

Flow-thru Cell Volume: _____

PID SCREENING MEAS.

Background	
Well Mouth	<i>0.0</i>

Protective Casing Stick-up _____ ft. (from ground)

Riser Stick-up _____ ft. (from ground)

WELL DIAMETER 2 inch
 4 inch
 6 inch
 Other: _____

WELL MATERIAL

PVC SS
 Other: _____

Well Depth *45* ft. top of riser measured
 top of casing historical

Water Depth *34.28* ft. LNAPL/DNAPL Depth = _____
 Well Volume _____ NAPL Thickness = _____

Depth of pump intake: _____
 Static water level after pump put into well: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Adjusted purge Rates/time/WL(record changes)

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals) *sample*

Time	<i>9:27</i>	<i>9:29</i>	<i>9:33</i>	<i>9:36</i>	<i>9:45</i>	<i>9:50</i>		
Temp. (°F)	<i>62.27</i>	<i>62.39</i>	<i>62.64</i>	<i>63.24</i>	<i>64.33</i>			
Conduct. (µmhos/cm)	<i>1768</i>	<i>1765</i>	<i>1763</i>	<i>1749</i>	<i>1794</i>			
DO (mg/L)	<i>1.60</i>	<i>1.03</i>	<i>0.82</i>	<i>0.74</i>	<i>0.55</i>			
pH (su)	<i>7.23</i>	<i>7.16</i>	<i>7.11</i>	<i>7.07</i>	<i>7.05</i>			
ORP (millivolts)	<i>94.4</i>	<i>98.2</i>	<i>101.9</i>	<i>104.8</i>	<i>108.1</i>			
Turbidity (NTU)	<i>1300</i>	<i>448</i>	<i>192</i>	<i>916</i>	<i>920</i>			
Flow (ml/min)	<i>1363.6</i>	<i>681.8</i>	<i>520</i>	<i>500</i>	<i>460</i>			
Depth To Water (ft)	<i>34.28</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>40.76</i>		
Cumulative Purge Vol. (gal or L)	<i>0.5</i>	<i>1.0</i>	<i>1.5</i>	<i>2.0</i>	<i>2.5</i>			

Time	Temp. (°C)	Conduct. (µmhos/cm)	DO (mg/L)	pH (Std. Units)	Eh/ORP (millivolts)	Turbidity (NTU)	Flow (ml/min)	Depth To Water (ft)	Cumulative Purge Vol. (gal or L)

Stabilization Criteria* (3 consecutive readings)

- Temperature: ± 3 %
- Conduct. (µmhos/cm): ± 3 %
- DO (mg/L): ± 10 % (for values >0.5 mg/L)
- pH (Std. Units): ± 0.1 SU
- ORP (millivolts): ± 10 mV
- Turbidity (NTU): +/- 10 % (for values >5.0 NTUs)
- Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<i>very turbid, light brown silty</i>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #

• Consult the applicable regulatory guidance for the specific criteria.

Signed: _____



Project: *Riley Ave Project No.: soil/GW Investigation 285830.02A.01* Date/Time: *10/3/18* Sheet *1* of *1*

Groundwater Field Data Record

TRC Personnel: *Kevin Li, Nate Berube* Well ID: *BR11-1GW01*

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up _____ ft. (from ground)

Well Depth *35* ft. top of riser measured top of casing historical

Riser Stick-up _____ ft. (from ground)

Water Depth *24.05* ft. LNAPL/DNAPL Depth = _____
Well Volume _____ NAPL Thickness = _____

Sampling Equipment: _____

WELL DIAMETER 2 inch 4 inch 6 inch
Other: _____

Depth of pump intake: _____
Static water level after pump put into well: _____

Flow-thru Cell Volume: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

PID SCREENING MEAS.

Background	
Well Mouth	<i>0.0</i>

WELL MATERIAL

PVC SS
Other: _____

Adjusted purge Rates/time/WL(record changes)

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals) *sampled*

Time	<i>10:50</i>	<i>10:54</i>	<i>10:57</i>	<i>11:00</i>	<i>11:10</i>	<i>11:10</i>			
Temp. (<i>X</i>) °F	<i>64.91</i>	<i>64.80</i>	<i>64.84</i>	<i>64.20</i>	<i>64.6</i>				
Conduct. (µmhos/cm)	<i>1441</i>	<i>1277</i>	<i>1219</i>	<i>1175</i>	<i>1175</i>				
DO (mg/L)	<i>9.4</i>	<i>0.75</i>	<i>0.68</i>	<i>0.59</i>	<i>0.40</i>				
pH (su)	<i>6.96</i>	<i>6.93</i>	<i>6.90</i>	<i>6.87</i>	<i>6.85</i>				
ORP (millivolts)	<i>114.2</i>	<i>115.7</i>	<i>118.8</i>	<i>122.0</i>	<i>122.1</i>				
Turbidity (NTU)	<i>878</i>	<i>803</i>	<i>374</i>	<i>124.6</i>	<i>31.49</i>				
Flow (ml/min)	<i>800</i>	<i>900</i>	<i>2600</i>	<i>2400</i>	<i>2220</i>				
Depth To Water (ft)	<i>24.05</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>26.18</i>			
Cumulative Purge Vol. (gal or L)	<i>0.5</i>	<i>1.0</i>	<i>2.5</i>	<i>4.0</i>	<i>6.5</i>				

Time									
Temp. (°C)									
Conduct. (µmhos/cm)									
DO (mg/L)									
pH (Std. Units)									
Eh/ORP (millivolts)									
Turbidity (NTU)									
Flow (ml/min)									
Depth To Water (ft)									
Cumulative Purge Vol. (gal or L)									

Stabilization Criteria*
(3 consecutive readings)
- Temperature: ± 3 %
- Conduct. (µmhos/cm): ± 3 %
- DO (mg/L): ± 10 % (for values >0.5 mg/L)
- pH (Std. Units): ± 0.1 SU
- ORP (millivolts): ± 10 mV
- Turbidity (NTU): +/- 10 % (for values >5.0 NTUs)
- Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)

Purge Sample Comments: *light yellowish brown, no sheen, no odor*

Peristaltic Pump

Submersible Pump

Bladder Pump

Bailer

Other: _____

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #



Project: *Riley Ave* Project No.: *285830.02A.01*
Soil/GW Investigation

Date/Time: *10/3/18*

Sheet *1* of *1*

Groundwater Field Data Record

TRC Personnel: *Kevin Li, Nate Berube*

Well ID: *BR11-1GW02*

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up _____ ft. (from ground)

Well Depth *60.1* ft. top of riser measured
 top of casing historical

Riser Stick-up _____ ft. (from ground)

Water Depth *57.3* ft. LNAPL/DNAPL Depth = _____
 Well Volume _____ NAPL Thickness = _____

WELL DIAMETER 2 inch
 4 inch
 6 inch
 Other: _____

Depth of pump intake: _____
 Static water level after pump put into well: _____

Sampling Equipment: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Flow-thru Cell Volume: _____

Adjusted purge Rates/time/WL(record changes)

PID SCREENING MEAS.

Background	
Well Mouth	<i>37.3</i>

WELL MATERIAL

PVC SS
 Other: _____

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate ^{Sample} intervals)

Time	<i>12:08</i>	<i>12:15</i>	<i>12:28</i>	<i>12:30</i>				
Temp. (°F)	<i>64.54</i>	<i>63.91</i>	<i>63.49</i>					
Conduct. (µmhos/cm)	<i>744</i>	<i>717</i>	<i>724</i>					
DO (mg/L)	<i>13.3</i>	<i>2.86</i>	<i>2.65</i>					
pH (su)	<i>7.36</i>	<i>7.05</i>	<i>7.01</i>					
ORP (millivolts)	<i>144.2</i>	<i>131.0</i>	<i>126.1</i>					
Turbidity (NTU)	<i>432.7</i>	<i>467.8</i>	<i>592.9</i>					
Flow (ml/min)	<i>-</i>	<i>-</i>	<i>-</i>					
Depth To Water (ft)	<i>57.3</i>	<i>-</i>	<i>-</i>	<i>57.34</i>				
Cumulative Purge Vol. (gal or L)								

Time									Stabilization Criteria* (3 consecutive readings) - Temperature: ± 3 % - Conduct. (µmhos/cm): ± 3 % - DO (mg/L): ± 10 % (for values >0.5 mg/L) - pH (Std. Units): ± 0.1 SU - ORP (millivolts): ± 10 mV - Turbidity (NTU): +/- 10 % (for values >5.0 NTUs) - Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)
Temp. (°C)									
Conduct. (µmhos/cm)									
DO (mg/L)									
pH (Std. Units)									
Eh/ORP (millivolts)									
Turbidity (NTU)									
Flow (ml/min)									
Depth To Water (ft)									
Cumulative Purge Vol. (gal or L)									

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<i>fairly turbid, used a bailer to sample</i>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #

• Consult the applicable regulatory guidance for the specific criteria.

Signed: _____



Project: Riley Ave Project No.: _____ Date/Time: 10/3/18
Soil/GW Investigation 285830.02A.01 Sheet 1 of 1

Groundwater Field Data Record

TRC Personnel: Kevin Li, Nate Barube Well ID: BR11-1GW03

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sampling Equipment: _____

Flow-thru Cell Volume: _____

PID SCREENING MEAS.

Background	
Well Mouth	<u>0.0</u>

Protective Casing Stick-up _____ ft. (from ground)

Riser Stick-up _____ ft. (from ground)

WELL DIAMETER 2 inch
 4 inch
 6 inch
 Other: _____

WELL MATERIAL

PVC SS
 Other: _____

Well Depth 45 ft. top of riser measured
 top of casing historical

Water Depth 34.28 ft. LNAPL/DNAPL Depth = _____
 Well Volume _____ NAPL Thickness = _____

Depth of pump intake: _____
 Static water level after pump put into well: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Adjusted purge Rates/time/WL(record changes)

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals) sample

Time	9:27	9:29	9:33	9:36	9:45	9:50			
Temp. (°F)	<u>62.27</u>	<u>62.39</u>	<u>62.64</u>	<u>63.24</u>	<u>64.33</u>				
Conduct. (µmhos/cm)	<u>1768</u>	<u>1765</u>	<u>1763</u>	<u>1749</u>	<u>1794</u>				
DO (mg/L)	<u>1.60</u>	<u>1.03</u>	<u>0.82</u>	<u>0.74</u>	<u>0.55</u>				
pH (su)	<u>7.23</u>	<u>7.16</u>	<u>7.11</u>	<u>7.07</u>	<u>7.05</u>				
ORP (millivolts)	<u>94.4</u>	<u>98.2</u>	<u>101.9</u>	<u>104.8</u>	<u>108.1</u>				
Turbidity (NTU)	<u>1300</u>	<u>448</u>	<u>192</u>	<u>916</u>	<u>920</u>				
Flow (ml/min)	<u>1363.6</u>	<u>681.8</u>	<u>520</u>	<u>500</u>	<u>460</u>				
Depth To Water (ft)	<u>34.28</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>40.76</u>			
Cumulative Purge Vol. (gal or L)	<u>0.5</u>	<u>1.0</u>	<u>1.5</u>	<u>2.0</u>	<u>2.5</u>				

Time									
Temp. (°C)									
Conduct. (µmhos/cm)									
DO (mg/L)									
pH (Std. Units)									
Eh/ORP (millivolts)									
Turbidity (NTU)									
Flow (ml/min)									
Depth To Water (ft)									
Cumulative Purge Vol. (gal or L)									

Stabilization Criteria* (3 consecutive readings)
 - Temperature: ± 3 %
 - Conduct. (µmhos/cm): ± 3 %
 - DO (mg/L): ± 10 % (for values >0.5 mg/L)
 - pH (Std. Units): ± 0.1 SU
 - ORP (millivolts): ± 10 mV
 - Turbidity (NTU): +/- 10 % (for values >5.0 NTUs)
 - Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<u>very turbid, light brown silty</u>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #



Groundwater Field Data Record

Project: Riky Ave GW Sampling Project No.: 285830.02A.01 Date/Time: 01/18/19 Sheet 1 of 1

TRC Personnel: Kevin Li, Nate Bernbe Well ID: BR11-GW01

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sampling Equipment: _____

Flow-thru Cell Volume: _____

PID SCREENING MEAS.

Background	
Well Mouth	

Protective Casing Stick-up _____ ft. (from ground)

Riser Stick-up _____ ft. (from ground)

WELL DIAMETER 2 inch
 4 inch
 6 inch
 Other: _____

WELL MATERIAL

PVC SS
 Other: _____

Well Depth 35 ft. top of riser measured
 top of casing historical

Water Depth 24.04 ft. LNAPL/DNAPL Depth = _____
 Well Volume _____ NAPL Thickness = _____

Depth of pump intake: _____
 Static water level after pump put into well: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Adjusted purge Rates/time/WL(record changes) _____

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals) Sample

Time	10:57	10:59	11:02	11:04	11:06	11:09	11:11		
Temp. (°F)	61.39	63.02	63.74	64.70	65.09	65.14			
Conduct. (µmhos/cm)	1152	1218	1192	1194	1192	1189			
DO (mg/L)	4.04	2.63	2.26	1.77	1.59	1.12			
pH (su)	7.05	6.70	6.55	6.47	6.44	6.41			
ORP (millivolts)	87.8	67.1	63.5	62.0	61.8	60.3			
Turbidity (NTU)	346	201	107.3	64.5	37.7	14.1			
Flow (ml/min)	900	1200	720	1384.6	857	947.4			
Depth To Water (ft)	24.04	-	-	-	-	-	25.53		
Cumulative Purge Vol. (gal or L)	0.5	1.0	1.5	2.5	3.5	5.25			

Time									
Temp. (°C)									
Conduct. (µmhos/cm)									
DO (mg/L)									
pH (Std. Units)									
Eh/ORP (millivolts)									
Turbidity (NTU)									
Flow (ml/min)									
Depth To Water (ft)									
Cumulative Purge Vol. (gal or L)									

Stabilization Criteria* (3 consecutive readings)
 - Temperature: ± 3 %
 - Conduct. (µmhos/cm): ± 3 %
 - DO (mg/L): ± 10 % (for values >0.5 mg/L)
 - pH (Std. Units): ± 0.1 SU
 - ORP (millivolts): ± 10 mV
 - Turbidity (NTU): +/- 10 % (for values >5.0 NTUs)
 - Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<u>no skin, no odor, clear</u>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #



Groundwater Field Data Record

Project: *Riley Ave* Project No.: *GW Sampling 285830.02A.01*

Date/Time: *01/18/19*

Sheet *1* of *1*

TRC Personnel: *Kevin Li, Nate Bernbe*

Well ID: *BR11-1GW02*

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sampling Equipment: _____

Flow-thru Cell Volume: _____

PID SCREENING MEAS.

Background	
Well Mouth	

Protective Casing Stick-up _____ ft. (from ground)

Riser Stick-up _____ ft. (from ground)

WELL DIAMETER 2 inch
 4 inch
 6 inch

WELL MATERIAL

PVC SS
 Other: _____

Well Depth *60.1* ft. top of riser measured
 top of casing historical

Water Depth *57.09* ft. LNAPL/DNAPL Depth = _____

Well Volume _____ NAPL Thickness = _____

Depth of pump intake: _____
Static water level after pump put into well: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Adjusted purge Rates/time/WL(record changes) _____

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate ^{Sample} intervals)

Time	<i>12:31</i>	<i>12:34</i>	<i>12:37</i>	<i>12:42</i>				
Temp. (°C) °F	<i>62.39</i>	<i>62.53</i>	<i>62.38</i>					
Conduct. (µmhos/cm)	<i>716</i>	<i>704</i>	<i>711</i>					
DO (mg/L)	<i>5.84</i>	<i>4.06</i>	<i>4.45</i>					
pH (su)	<i>7.81</i>	<i>7.15</i>	<i>7.03</i>					
ORP (millivolts)	<i>74.6</i>	<i>69.3</i>	<i>69.2</i>					
Turbidity (NTU)	<i>124.6</i>	<i>236.5</i>	<i>1100</i>					
Flow (ml/min)	-	-	-					
Depth To Water (ft)	<i>59.15</i>	-	-	<i>57.21</i>				
Cumulative Purge Vol. (gal or L)	-	-	-					

Time									Stabilization Criteria* (3 consecutive readings) - Temperature: ± 3 % - Conduct. (µmhos/cm): ± 3 % - DO (mg/L): ± 10 % (for values >0.5 mg/L) - pH (Std. Units): ± 0.1 SU - ORP (millivolts): ± 10 mV - Turbidity (NTU): +/- 10 % (for values >5.0 NTUs) - Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)
Temp. (°C)									
Conduct. (µmhos/cm)									
DO (mg/L)									
pH (Std. Units)									
Eh/ORP (millivolts)									
Turbidity (NTU)									
Flow (ml/min)									
Depth To Water (ft)									
Cumulative Purge Vol. (gal or L)									

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<i>fairly turbid, used a bailer to sample</i>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #



Groundwater Field Data Record

Project: Riley Ave. GW Sampling Project No.: 285830.02A.01 Date/Time: 01/18/19 Sheet 1 of 1

TRC Personnel: Kevin Li, Nate Berube Well ID: BRI-16-W03

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sampling Equipment: _____

Flow-thru Cell Volume: _____

PID SCREENING MEAS.

Background	
Well Mouth	

Protective Casing Stick-up (from ground) _____ ft.

Riser Stick-up (from ground) _____ ft.

WELL DIAMETER 2 inch 4 inch 6 inch

Other: _____

WELL MATERIAL

PVC SS

Other: _____

Well Depth 45 ft. top of riser measured top of casing historical

Water Depth 34.39 ft. LNAPL/DNAPL Depth = _____

Well Volume _____ NAPL Thickness = _____

Depth of pump intake: _____

Static water level after pump put into well: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Adjusted purge Rates/time/WL(record changes) _____

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals) Sample

Time	9:08	9:10	9:12	9:14	9:16	9:54			
Temp. (°F)	61.57	61.62	61.71	63.34	64.60				
Conduct. (µmhos/cm)	1710	1708	1708	1724	1746				
DO (mg/L)	0.84	0.72	0.68	0.69	0.70				
pH (su)	6.35	6.43	6.45	6.53	6.56				
ORP (millivolts)	53.5	53.8	54.4	51.3	53.5				
Turbidity (NTU)	74.4	63.5	43.7	171	64.5				
Flow (ml/min)	1750	750	600	600	491				
Depth To Water (ft)	34.39	-	-	-	-	43.0			
Cumulative Purge Vol. (gal or L)	0.5	1.0	1.5	2.0	2.5				

Time						Stabilization Criteria* (3 consecutive readings)
Temp. (°C)						- Temperature: ± 3 %
Conduct. (µmhos/cm)						- Conduct. (µmhos/cm): ± 3 %
DO (mg/L)						- DO (mg/L): ± 10 % (for values >0.5 mg/L)
pH (Std. Units)						- pH (Std. Units): ± 0.1 SU
Eh/ORP (millivolts)						- ORP (millivolts): ± 10 mV
Turbidity (NTU)						- Turbidity (NTU): +/- 10 % (for values >5.0 NTUs)
Flow (ml/min)						- Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)
Depth To Water (ft)						
Cumulative Purge Vol. (gal or L)						

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<u>light yellowish brown, minor silt</u>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #



Groundwater Field Data Record

Project: Riky Ave Project No.: GW Sampling 285030.02A.01 Date/Time: 4/18/19 Sheet 1 of 1

TRC Personnel: Nate Berube, Daniel Parsons Well ID: BR11-1GW01

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sampling Equipment: _____

Flow-thru Cell Volume: _____

PID SCREENING MEAS.

Background	
Well Mouth	

Protective Casing Stick-up _____ ft. (from ground)

Riser Stick-up _____ ft. (from ground)

WELL DIAMETER 2 inch 4 inch 6 inch
Other: _____

WELL MATERIAL

PVC SS
Other: _____

Well Depth: 34.8 ft. top of riser measured
 top of casing historical

Water Depth 21.3 ft. LNAPL/DNAPL Depth = _____
Well Volume _____ NAPL Thickness = _____

Depth of pump intake: _____
Static water level after pump put into well: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Adjusted purge Rates/time/WL(record changes) _____

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals) 10:33 Sample

Time	10:18	10:21	10:24	10:27	10:30	10:33			
Temp. (°F)	70.53	64.7	65.17	65.23	65.34	65.55			
Conduct. (µmhos/cm)	1228	1057	995	977	975	968			
DO (mg/L)	4.78	0.94	0.72	0.67	0.56	0.51			
pH (su)	6.74	6.76	6.77	6.79	6.78	6.77			
ORP (millivolts)	56	59.6	62.1	63.7	65.0	65.8			
Turbidity (NTU)	559	129.9	93.96	96.67	92.22	21.32			
Flow (ml/min)	900	818	1223	1106	1089				
Depth To Water (ft)	21.3	-	-	-	14.2	-			
Cumulative Purge Vol. (gal or L)	1	2	3	4	5	6.5			

Time									
Temp. (°C)									
Conduct. (µmhos/cm)									
DO (mg/L)									
pH (Std. Units)									
Eh/ORP (millivolts)									
Turbidity (NTU)									
Flow (ml/min)									
Depth To Water (ft)									
Cumulative Purge Vol. (gal or L)									

Stabilization Criteria* (3 consecutive readings)

- Temperature: ± 3 %
- Conduct. (µmhos/cm): ± 3 %
- DO (mg/L): ± 10 % (for values >0.5 mg/L)
- pH (Std. Units): ± 0.1 SU
- ORP (millivolts): ± 10 mV
- Turbidity (NTU): +/- 10 % (for values >5.0 NTUs)
- Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<u>no sheen, very minor TPH smell</u> <u>light brown, not silty</u> <u>not silty/minor silt depending on flow.</u>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #



**Groundwater
Field Data Record**

Project: Riley Ave GW Sampling Project No.: 28583002A.01 Date/Time: 4/18/19 Sheet 1 of 1

TRC Personnel: Nate Berube, Daniel Parsons Well ID: BR11-1GW02

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sampling Equipment: _____

Flow-thru Cell Volume: _____

PID SCREENING MEAS.

Background	
Well Mouth	

Protective Casing Stick-up _____ ft. (from ground)

Riser Stick-up _____ ft. (from ground)

WELL DIAMETER 2 inch
 4 inch
 6 inch

WELL MATERIAL

PVC SS
Other: _____

Well Depth 60.1 ft. top of riser measured
 top of casing historical

Water Depth 55.4 ft. LNAPL/DNAPL Depth = _____
Well Volume _____ NAPL Thickness = _____

Depth of pump intake: _____
Static water level after pump put into well: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Adjusted purge Rates/time/WL(record changes)

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals) *Sample*

Time	<u>11:37</u>	<u>11:41</u>	<u>11:46</u>	<u>11:50</u>	<u>12:00</u>			
Temp. (°C)	<u>65.64</u>	<u>66.0</u>	<u>65.82</u>	<u>63.52</u>				
Conduct. (µmhos/cm)	<u>608</u>	<u>585</u>	<u>583</u>	<u>587</u>				
DO (mg/L)	<u>6.68</u>	<u>6.53</u>	<u>5.71</u>	<u>5.20</u>				
pH (su)	<u>6.71</u>	<u>7.08</u>	<u>7.13</u>	<u>7.20</u>				
ORP (millivolts)	<u>59.9</u>	<u>45.5</u>	<u>46.4</u>	<u>49.3</u>				
Turbidity (NTU)	<u>1100</u>	<u>1100</u>	<u>1100</u>	<u>1100</u>				
Flow (ml/min)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>				
Depth To Water (ft)	<u>55.4</u>	<u>-</u>	<u>-</u>	<u>-</u>				
Cumulative Purge Vol. (gal or L)	<u>0.5</u>	<u>1.25</u>	<u>2.5</u>	<u>3.5</u>				

Time	Temp. (°C)	Conduct. (µmhos/cm)	DO (mg/L)	pH (Std. Units)	Eh/ORP (millivolts)	Turbidity (NTU)	Flow (ml/min)	Depth To Water (ft)	Cumulative Purge Vol. (gal or L)	Stabilization Criteria* (3 consecutive readings)
										- Temperature: ± 3 % - Conduct. (µmhos/cm): ± 3 % - DO (mg/L): ± 10 % (for values >0.5 mg/L) - pH (Std. Units): ± 0.1 SU - ORP (millivolts): ± 10 mV - Turbidity (NTU): +/- 10 % (for values >5.0 NTUs) - Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<u>Brown, silty, no smell or sheen</u>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bladder Pump	<input type="checkbox"/>	<input type="checkbox"/>	
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #



Groundwater Field Data Record

Project: Riley Ave Project No.:

Date/Time:

Sheet 1 of 1

GW Sampling 285830-02A-01

4/10/19

TRC Personnel:

Well ID:

Nate Berube, Daniel Parson BR11-1GW03

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up _____ ft. (from ground)

Well Depth ~~33.9~~ ^{44.9} ft. top of riser measured top of casing historical

Riser Stick-up _____ ft. (from ground)

Water Depth ^{33.9} ft. LNAPL/DNAPL Depth = _____

Well Volume _____ NAPL Thickness = _____

WELL DIAMETER 2 inch 4 inch 6 inch
Other: _____

Depth of pump intake: _____
Static water level after pump put into well: _____

Sampling Equipment: _____

Initial purge Rate/ Water Level (100-400 ml/min): _____

Flow-thru Cell Volume: _____

Adjusted purge Rates/time/WL(record changes) _____

PID SCREENING MEAS.

Background	
Well Mouth	

WELL MATERIAL

PVC SS
Other: _____

Flow rate at time of sampling: _____

Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate ^{sample} intervals)

Time	9:19	9:22	9:24	9:40				
Temp. (°C)	62.09	62.90	63.72					
Conduct. (µmhos/cm)	1685	1607	1567					
DO (mg/L)	5.20	0.65	0.61					
pH (su)	6.84	6.77	6.73					
ORP (millivolts)	53.0	53.0	53.9					
Turbidity (NTU)	57.11	57.68	60.09					
Flow (ml/min)	1027	591	236					
Depth To Water (ft)	33.9	-	-	38.95				
Cumulative Purge Vol. (gal or L)	1	2	2.5					

Time								
Temp. (°C)								
Conduct. (µmhos/cm)								
DO (mg/L)								
pH (Std. Units)								
Eh/ORP (millivolts)								
Turbidity (NTU)								
Flow (ml/min)								
Depth To Water (ft)								
Cumulative Purge Vol. (gal or L)								

Stabilization Criteria* (3 consecutive readings)

- Temperature: ± 3 %
- Conduct. (µmhos/cm): ± 3 %
- DO (mg/L): ± 10 % (for values >0.5 mg/L)
- pH (Std. Units): ± 0.1 SU
- ORP (millivolts): ± 10 mV
- Turbidity (NTU): +/- 10 % (for values >5.0 NTUs)
- Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)

Purge Sample Comments:

Peristaltic Pump
Submersible Pump
Bladder Pump
Bailer
Other: _____

yellowish brown, murky, minor silt

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #

Consult the applicable regulatory guidance for the specific criteria.

Signed: _____

B. 763

ATTACHMENT C
Non-hazardous Waste Manifest – Drum Disposal

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of 1
3. Generator's Name and Mailing Address <p style="text-align: center;">1471 Central Magazine Rd San Francisco, CA 94129</p>					
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID	
Big Sky Enterprises		CAL 000 301 639		B. Transporter 1 Phone 800-479-7993	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID	
Big Sky Enterprises 401 W Channel Rd Bericia, CA 94510		CAL 000 301 639		F. Facility's Phone 800-479-7993	
11. WASTE DESCRIPTION			12. Containers		13. Total Quantity
			No.	Type	14. Unit Wt./Vol.
a. Non Hazardous Hazardous Waste Solid (Soil Cuttings)			9	DM	5400. P
b. Non Hazardous Waste Liquid (Purge Water)			3	DM	450. G
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information <p style="text-align: center;">Wear PPE Emergency Contact: Jeff Rhodes</p>					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name				Date	
Kevin Li on behalf of the Presidio Trust				07 10 9 18	
Signature				Date	
<i>Kevin Li</i>				07 10 9 18	
17. Transporter 1 Acknowledgement of Receipt of Materials			Date		
Printed/Typed Name			Date		
Edilberto del Arco			07 10 9 18		
Signature			Date		
<i>Edilberto del Arco</i>			07 10 9 18		
18. Transporter 2 Acknowledgement of Receipt of Materials			Date		
Printed/Typed Name			Date		
Signature			Date		
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name				Date	
Signature				Date	

NON-HAZARDOUS WASTE GENERATOR



ATTACHMENT D
Laboratory Reports



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 300379 ANALYTICAL REPORT

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Ave
Level : III

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1SB012[3]	300379-001
BR11-1SB012[5]	300379-002
BR11-1SB012[7]	300379-003
BR11-1SB012[10]	300379-004
BR11-1SB012[15]	300379-005
BR11-1SB012[20]	300379-006
BR11-1SB012[25]	300379-007
BR11-1SB012[30]	300379-008
BR11-1SB012[35]	300379-009
BR11-1SB012[40]	300379-010
BR11-1SB012[45]	300379-011
BR11-1SB012[50]	300379-012
DUP06042018-01	300379-013
BR11-1SB014[3]	300379-014
BR11-1SB014[5]	300379-015
BR11-1SB014[7]	300379-016
BR11-1SB014[10]	300379-017
BR11-1SB014[15]	300379-018
BR11-1SB014[20]	300379-019
BR11-1SB014[25]	300379-020
DUP06042018-02	300379-021
BR11-1SB012[W]	300379-022
TB06042018	300379-023

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Mike Dahlquist
Project Manager

mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

Date: 06/14/2018

CASE NARRATIVE

Laboratory number: 300379
Client: TRC Solutions
Project: 285830.02.01
Location: Riley Ave
Request Date: 06/05/18
Samples Received: 06/05/18

This data package contains sample and QC results for twenty one soil samples and two water samples, requested for the above referenced project on 06/05/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B) Water:

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260228; this analyte was not detected in samples at or above the RL.

TB06042018 (lab # 300379-023) was analyzed with more than 1 mL of headspace in the VOA vial.

No other analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260199; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260201; this analyte was not detected in samples at or above the RL.

No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

High surrogate recovery was observed for o-terphenyl in the MS of BR11-1SB012[15] (lab # 300379-005).

Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 260428.

No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

No analytical problems were encountered.

Moisture (ASTM D2216-98/CLP):

No analytical problems were encountered.

Chain of Custody

Enthalpy Analytical LLC
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900 Phone
 (510) 486-0532 Fax

CHAIN OF CUSTODY

Chain of Custody #: _____

C&T LOGIN # 300375

Project No: 285830.02.01
 Project Name: Riley Avenue
 EDD Format: TRC EQUIS Rpt Level: II III IV
 Turnaround Time: RUSH Standard
 Sampler: Kevin Li, Nate Berube
 Report To: Alfonso Ang
 Company: TRC Solutions
 Telephone: 415-786-7830
 Email: aang@trcsolutions.com

Lab No.	Sample ID.	Sampling		Matrix			Chemical Preservative					Containers #	Moisture
		Date	Time	Water	Soil		HCl	H ₂ SO ₄	HNO ₃	NaOH	MeOH		
	BR11-1SB012[3]	6/4/18	8:55	X	X							4	X
	BR11-1SB012[5]		8:56	X	X							4	X
	BR11-1SB012[7]		9:32	X	X							4	X
	BR11-1SB012[10]		9:35	X	X							4	X
	BR11-1SB012[15]		9:40	X	X							4	X
	BR11-1SB012[20]		9:49	X	X							4	X
	BR11-1SB012[25]		9:57	X	X							4	X
	BR11-1SB012[30]		10:08	X	X							4	X
	BR11-1SB012[35]		10:16	X	X							4	X
	BR11-1SB012[40]		10:25	X	X							4	X
	BR11-1SB012[45]		10:42	X	X							4	X
	BR11-1SB012[50]		10:58	X	X							4	X
	DUP06042018-01		10:02	X	X							4	X

Notes: Include Geotracker EDF
 All results to be reported on a dry weight basis. No silica gel cleanup
Please email cc the following:
 jhanzel-durbin@trcsolutions.com, kli@trcsolutions.com
 mpatinkin@trcsolutions.com, nberube@trcsolutions.com
 smilcan@trcsolutions.com

RELINQUISHED BY:

RECEIVED BY:

Kevin Li
 6/4/18 6:4
 DATE/TIME 15:35

Nate Berube
 6-4-18
 DATE/TIME 15:35

Alfonso Ang
 6-4
 DATE/TIME 17:51

Alfonso Ang
 6-4-18
 DATE/TIME 17:53

DATE/TIME

DATE/TIME

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 300379

Client: TRC

Date Received: 6-4-18

Project: Riley Ave

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # A, or B

Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 6-4-18 By (print) TKY (sign) TKY

Shipping info (if applicable) _____

Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package

Date: _____ How many _____ Signature, Initials, None

Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important : Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

Samples received on ice directly from the field. Cooling process had begun

Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No

Temperature measured using Thermometer ID: _____, or IR Gun # A B

Cooler Temp (°C): #1: 3.0, #2: 3.2, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	X		
Were Method 5035 sampling containers present?	X		
If YES, what time were they transferred to freezer? <u>1524</u>			
Did all bottles arrive unbroken/unopened?	X		
Are there any missing / extra samples?		X	
Are samples in the appropriate containers for indicated tests?	X		
Are sample labels present, in good condition and complete?	X		
Does the container count match the COC?	X		
Do the sample labels agree with custody papers?	X		
Was sufficient amount of sample sent for tests requested?	X		
Did you change the hold time in LIMS for unpreserved VOAs?			X
Did you change the hold time in LIMS for preserved terracores?	X		
Are bubbles > 6mm absent in VOA samples?		X	
Was the client contacted concerning this sample delivery?		X	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			X
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:
 Explanations/Comments: sample 23 - 1/2 VOA arrived containing bubbles

Date Logged in 6-5-18 By (print) TKY (sign) TKY
 Date Labeled 6-5-18 By (print) TKY (sign) TKY

Detections Summary for 300379

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions
 Project : 285830.02.01
 Location : Riley Ave

Client Sample ID : BR11-1SB012[3] Laboratory Sample ID : 300379-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.033	J	0.22	0.014	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.2	Y	1.2	0.38	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	6.5	Y	6.1	1.9	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[5] Laboratory Sample ID : 300379-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.017	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.58	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[7] Laboratory Sample ID : 300379-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.028	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.43	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[10] Laboratory Sample ID : 300379-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.3	Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	3.9	J	5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[15] Laboratory Sample ID : 300379-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.028	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.0	Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[20] Laboratory Sample ID : 300379-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.033	J	0.22	0.014	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.88	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	1.8	J	5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[25]

Laboratory Sample ID : 300379-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.034	J	0.18	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.90	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[30]

Laboratory Sample ID : 300379-008

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.040	J	0.26	0.017	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.97	J,Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[35]

Laboratory Sample ID : 300379-009

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.018	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.55	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[40]

Laboratory Sample ID : 300379-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.025	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	3.6	Y,Z	1.1	0.33	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[45]

Laboratory Sample ID : 300379-011

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.022	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	4.0	Y,Z	1.1	0.33	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	11		5.4	1.6	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[50]

Laboratory Sample ID : 300379-012

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.022	J	0.22	0.014	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.9	Y,Z	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	3.9	J	5.6	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : DUP06042018-01

Laboratory Sample ID : 300379-013

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.022	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.92	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB014[3]

Laboratory Sample ID : 300379-014

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.027	J	0.18	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.2	J,Y	1.2	0.38	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	4.0	J	6.2	1.9	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB014[5]

Laboratory Sample ID : 300379-015

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.020	J	0.18	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.66	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB014[7]

Laboratory Sample ID : 300379-016

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.022	J	0.15	0.0079	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.72	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	2.0	J	5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB014[10]

Laboratory Sample ID : 300379-017

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.019	J	0.15	0.0081	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	28	Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	96		5.7	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB014[15]

Laboratory Sample ID : 300379-018

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.010	J	0.15	0.0081	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	3.0	Y,Z	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB014[20]

Laboratory Sample ID : 300379-019

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.0087	J	0.16	0.0085	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.9	Y,Z	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	8.1		6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB014[25]

Laboratory Sample ID : 300379-020

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.014	J	0.21	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.47	J,Y	1.1	0.33	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : DUP06042018-02

Laboratory Sample ID : 300379-021

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.012	J	0.16	0.0085	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.46	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB012[W]

Laboratory Sample ID : 300379-022

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	110	J	250	53	ug/L	As Recd	5.000	EPA 8015B	EPA 5030B
Diesel C10-C24	140	Y	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	110	J	300	96	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Bunker C C12-C40	500	Y	300		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Naphthalene	0.4		0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C
Fluorene	0.04	J	0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C
Phenanthrene	0.1		0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C
Anthracene	0.03	J	0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C
Fluoranthene	0.02	J	0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C
Pyrene	0.03	J	0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C
Chrysene	0.03	J	0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C
Benzo(g,h,i)perylene	0.02	J	0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C

Client Sample ID : TB06042018

Laboratory Sample ID : 300379-023

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	23	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Z = Sample exhibits unknown single peak or peaks

Laboratory Job Number 300379

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Water

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01		
Matrix:	Water	Sampled:	06/04/18
Units:	ug/L	Received:	06/05/18
Batch#:	260228	Analyzed:	06/06/18

Field ID: BR11-1SB012[W] Lab ID: 300379-022
 Type: SAMPLE Diln Fac: 5.000

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	110 J	250	53	EPA 8015B
Benzene	ND	2.5	0.50	EPA 8021B
Toluene	ND	2.5	0.50	EPA 8021B
Ethylbenzene	ND	2.5	0.50	EPA 8021B
m,p-Xylenes	ND	2.5	0.67	EPA 8021B
o-Xylene	ND	2.5	0.69	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	94	79-120	EPA 8015B
Bromofluorobenzene (PID)	91	71-127	EPA 8021B

Field ID: TB06042018 Lab ID: 300379-023
 Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	23 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.10	EPA 8021B
Ethylbenzene	ND	0.50	0.10	EPA 8021B
m,p-Xylenes	ND	0.50	0.13	EPA 8021B
o-Xylene	ND	0.50	0.14	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	94	79-120	EPA 8015B
Bromofluorobenzene (PID)	92	71-127	EPA 8021B

Type: BLANK Diln Fac: 1.000
 Lab ID: QC934795

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	18 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.10	EPA 8021B
Ethylbenzene	ND	0.50	0.10	EPA 8021B
m,p-Xylenes	ND	0.50	0.13	EPA 8021B
o-Xylene	ND	0.50	0.14	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	94	79-120	EPA 8015B
Bromofluorobenzene (PID)	92	71-127	EPA 8021B

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC934792	Batch#:	260228
Matrix:	Water	Analyzed:	06/06/18
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,106	111	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	79-120

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8021B
Matrix:	Water	Batch#:	260228
Units:	ug/L	Analyzed:	06/06/18
Diln Fac:	1.000		

Type: BS Lab ID: QC934793

Analyte	Spiked	Result	%REC	Limits
Benzene	10.00	9.523	95	80-120
Toluene	10.00	9.427	94	80-120
Ethylbenzene	10.00	9.606	96	79-120
m,p-Xylenes	10.00	9.622	96	79-120
o-Xylene	10.00	9.262	93	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	82	71-127

Type: BSD Lab ID: QC934794

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	10.00	10.08	101	80-120	6	20
Toluene	10.00	9.845	98	80-120	4	20
Ethylbenzene	10.00	9.729	97	79-120	1	20
m,p-Xylenes	10.00	10.09	101	79-120	5	20
o-Xylene	10.00	10.14	101	80-120	9	20

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	89	71-127

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	260228
MSS Lab ID:	300441-001	Sampled:	06/06/18
Matrix:	Water	Received:	06/06/18
Units:	ug/L	Analyzed:	06/06/18
Diln Fac:	1.000		

Type: MS Lab ID: QC934796

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	45.83	2,000	2,166	106	80-120

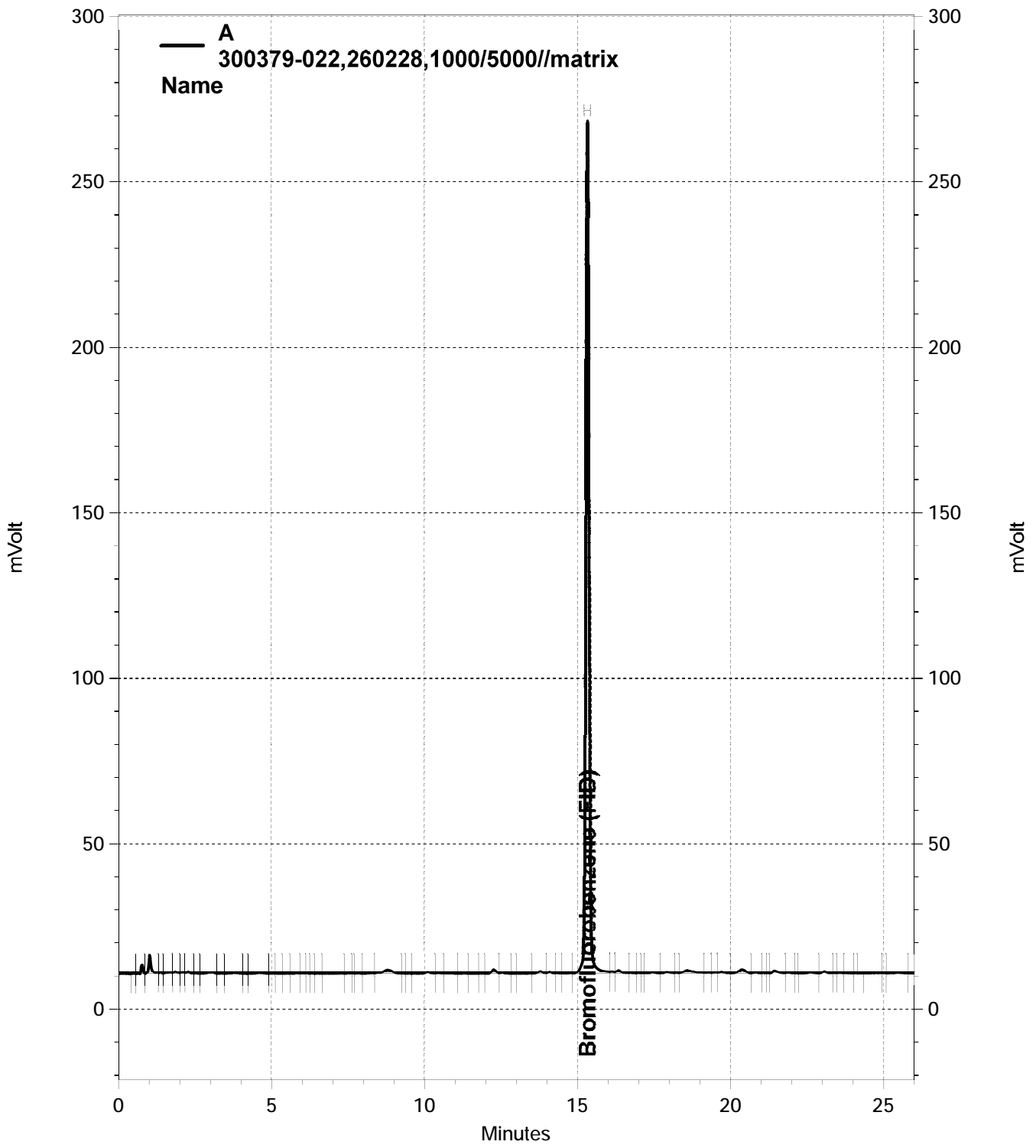
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	79-120

Type: MSD Lab ID: QC934797

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,155	105	80-120	1	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	79-120

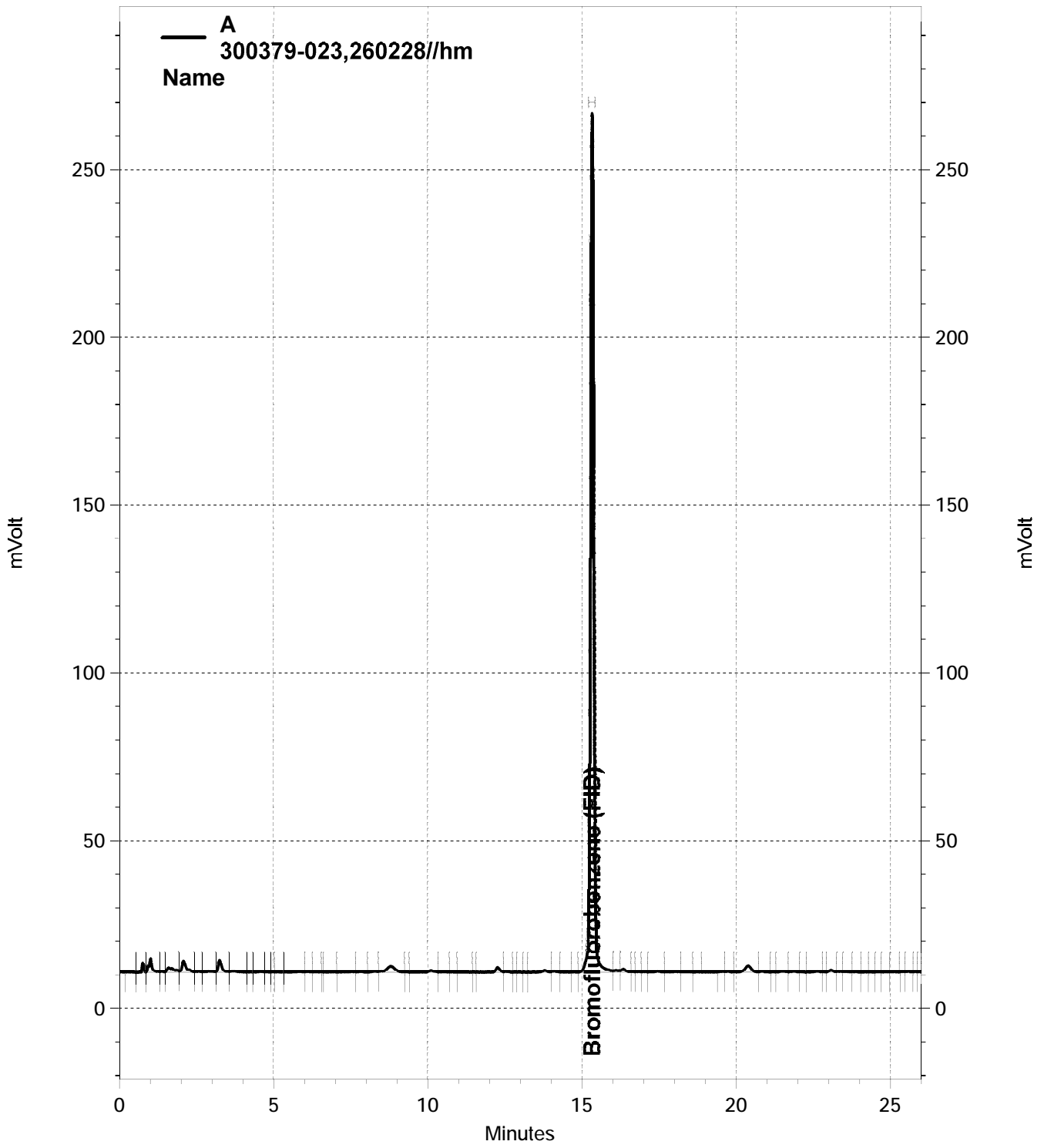
RPD= Relative Percent Difference



A
300379-022,260228,1000/5000//matrix
Name

Bromofluorobenzene (FID)

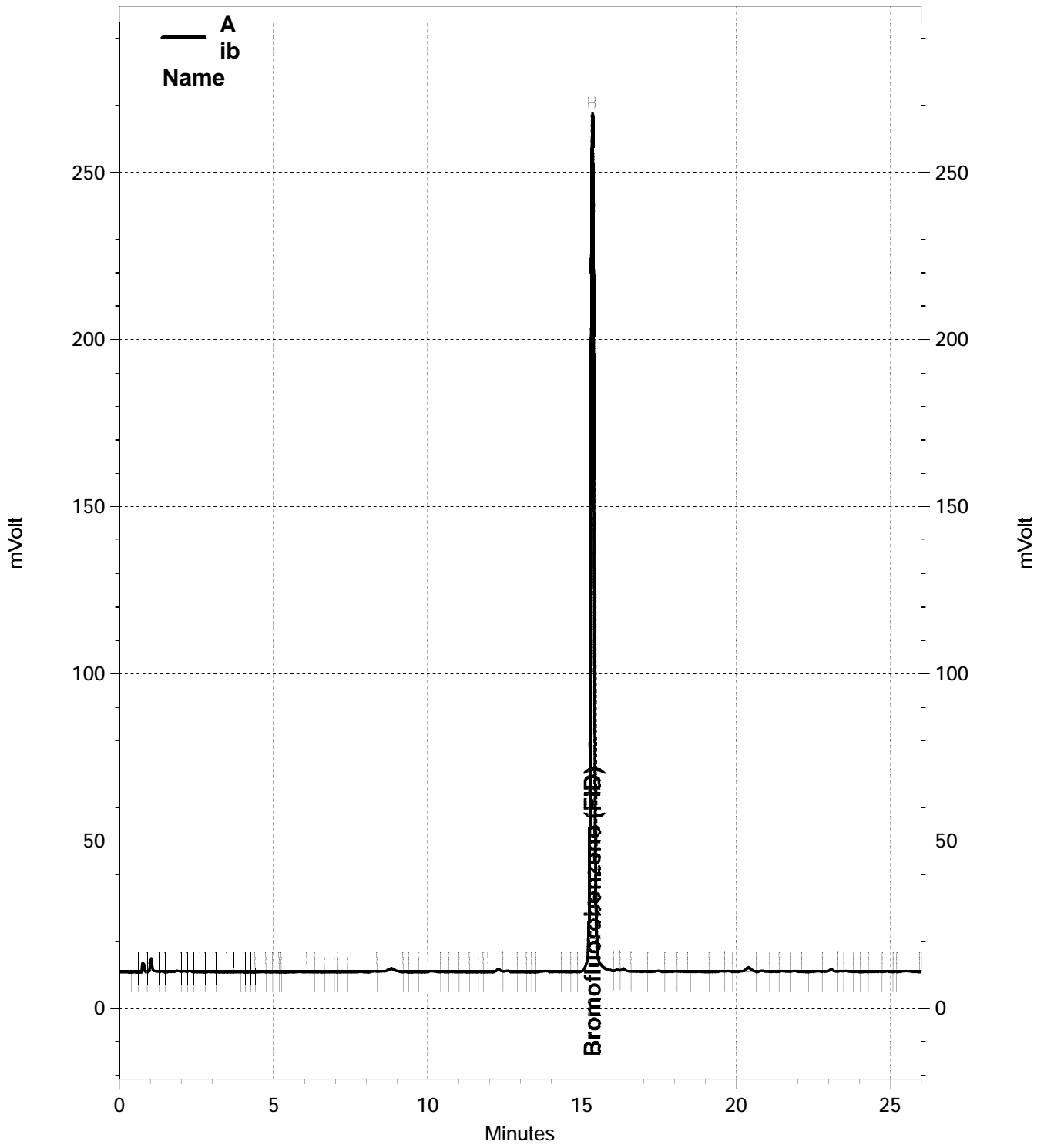
\\Lims\gdrive\ezchrom\Projects\GC07\Data\157-010, A



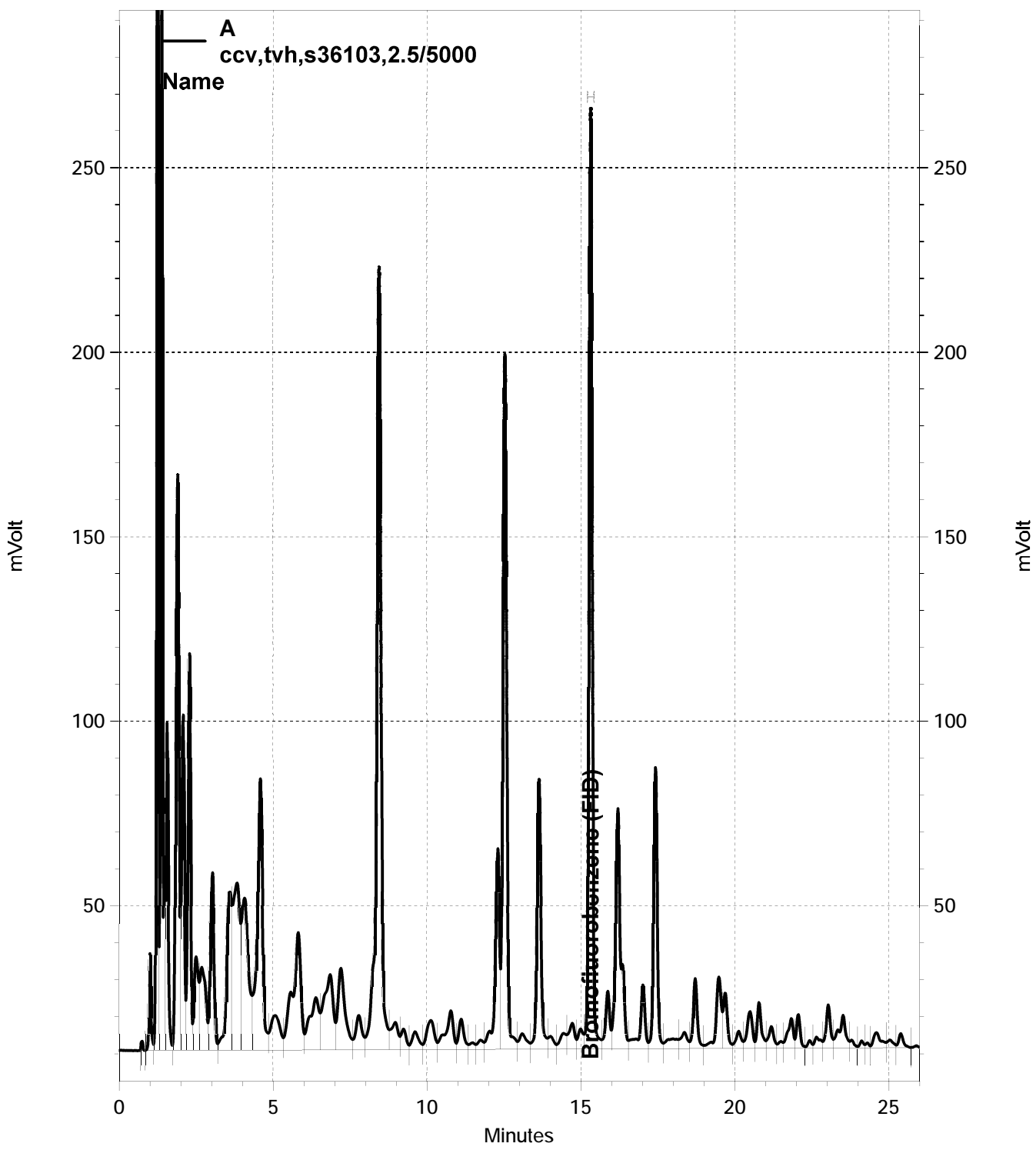
A
300379-023,260228//hm
Name

Bromofluorobenzene (FID)

\\Lims\gdrive\ezchrom\Projects\GC07\Data\157-008, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-007, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\157-002, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 300379 GCVOA Water: EPA 8021B

Inst : GC07
 Calnum : 328176634001
 Units : ng

Name : MBTXE_122
 Date : 02-MAY-2018 22:56
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_012	328176634012	BTXE_1	02-MAY-2018 22:56	S35889 (1000X), S36233 (5000X)
L2	122_013	328176634013	MBTXE_2	02-MAY-2018 23:34	S36294 (1250X), S36233 (5000X)
L3	122_014	328176634014	MBTXE_3	03-MAY-2018 00:12	S36294 (500X), S36233 (5000X)
L4	122_015	328176634015	MBTXE_4	03-MAY-2018 00:50	S36294 (125X), S36233 (5000X)
L5	122_016	328176634016	MBTXE_5	03-MAY-2018 01:28	S35887 (1000X), S36233 (5000X)
L6	122_017	328176634017	MBTXE_6	03-MAY-2018 02:07	S35887 (500X), S36233 (5000X)
L7	122_018	328176634018	MBTXE_7	03-MAY-2018 02:45	S35887 (250X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzene	B	32661	28967	33865	33045	35530	36077	35842	AVRG		2.97E-5		33713	7	0.995	20	
Toluene	B	35850	27715	30543	29993	32299	32713	32236	AVRG		3.16E-5		31621	8	0.995	20	
Ethylbenzene	B	33834	24137	26923	25828	27555	27919	26928	AVRG		3.62E-5		27589	11	0.995	20	
m,p-Xylenes	B	45518	30761	32393	32140	33095	33659	33242	AVRG		2.91E-5		34401	15	0.995	20	
o-Xylene	B	31247	24358	27258	27337	28898	29291	28661	AVRG		3.55E-5		28150	8	0.995	20	
Bromofluorobenzene (PID)	B	25488	25061	24534	24811	25891	26143	26329	AVRG		3.93E-5		25465	3	0.995	20	
Benzene	C	1703.2	1706.2	2146.8	2247.1	2460.9	2462.7	2389.3	AVRG		4.63E-4		2159.5	15	0.995	20	
Toluene	C	1753.6	1588.0	1890.6	2016.8	2223.6	2231.7	2170.5	AVRG		5.05E-4		1982.1	13	0.995	20	
Ethylbenzene	C	1289.2	1252.0	1570.5	1706.8	1871.4	1900.9	1843.8	AVRG		6.12E-4		1633.5	17	0.995	20	
m,p-Xylenes	C	2560.8	1850.1	2117.0	2173.8	2306.7	2311.8	2234.5	AVRG		4.50E-4		2222.1	10	0.995	20	
o-Xylene	C	2204.0	1604.0	1849.9	1872.5	1984.5	1988.5	1930.9	AVRG		5.21E-4		1919.2	9	0.995	20	
Bromofluorobenzene (PID)	C	1775.8	1741.0	1701.0	1707.9	1749.9	1734.9	1719.7	AVRG		5.77E-4		1732.9	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Benzene	B	2.5000	-3	10.000	-14	25.000	0	100.00	-2	500.00	5	1000.0	7	2000.0	6
Toluene	B	2.5000	13	10.000	-12	25.000	-3	100.00	-5	500.00	2	1000.0	3	2000.0	2
Ethylbenzene	B	2.5000	23	10.000	-13	25.000	-2	100.00	-6	500.00	0	1000.0	1	2000.0	-2
m,p-Xylenes	B	2.5000	32	10.000	-11	25.000	-6	100.00	-7	500.00	-4	1000.0	-2	2000.0	-3
o-Xylene	B	2.5000	11	10.000	-13	25.000	-3	100.00	-3	500.00	3	1000.0	4	2000.0	2
Bromofluorobenzene (PID)	B	900.00	0	900.00	-2	900.00	-4	900.00	-3	900.00	2	900.00	3	900.00	3
Benzene	C	2.5000	-21	10.000	-21	25.000	-1	100.00	4	500.00	14	1000.0	14	2000.0	11
Toluene	C	2.5000	-12	10.000	-20	25.000	-5	100.00	2	500.00	12	1000.0	13	2000.0	10
Ethylbenzene	C	2.5000	-21	10.000	-23	25.000	-4	100.00	4	500.00	15	1000.0	16	2000.0	13
m,p-Xylenes	C	2.5000	15	10.000	-17	25.000	-5	100.00	-2	500.00	4	1000.0	4	2000.0	1
o-Xylene	C	2.5000	15	10.000	-16	25.000	-4	100.00	-2	500.00	3	1000.0	4	2000.0	1
Bromofluorobenzene (PID)	C	900.00	2	900.00	0	900.00	-2	900.00	-1	900.00	1	900.00	0	900.00	-1

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300379 GCVOA Water
EPA 8021B

Inst : GC07
Calnum : 328176634001

Name : MBTXE_122
Cal Date : 02-MAY-2018

ICV 328176634020 (122_020 03-MAY-2018) stds: S36861 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	100.0	95.41	ng	-5	15	
Toluene	B	100.0	92.97	ng	-7	15	
Ethylbenzene	B	100.0	92.82	ng	-7	15	
m,p-Xylenes	B	200.0	181.8	ng	-9	15	
o-Xylene	B	100.0	98.35	ng	-2	15	
Benzene	C	100.0	104.6	ng	5	15	
Toluene	C	100.0	102.9	ng	3	15	
Ethylbenzene	C	100.0	108.3	ng	8	15	
m,p-Xylenes	C	200.0	196.8	ng	-2	15	
o-Xylene	C	100.0	101.6	ng	2	15	

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

ENTHALPY INITIAL CALIBRATION FOR 300379 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 328184879001
 Units : ng

Name : TVH_129
 Date : 08-MAY-2018 21:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	128_017	328184879017	TVH_14	08-MAY-2018 21:46	S36893 (1000X), S36233 (5000X)
L2	128_018	328184879018	TVH_15	08-MAY-2018 22:25	S36892 (1000X), S36233 (5000X)
L3	128_019	328184879019	TVH_16	08-MAY-2018 23:03	S36891 (1000X), S36233 (5000X)
L4	128_020	328184879020	TVH_17	08-MAY-2018 23:42	S36890 (2000X), S36233 (5000X)
L5	128_021	328184879021	TVH_18	09-MAY-2018 00:20	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2551.5	2151.4	1868.7	2079.4	2113.6	AVRG		4.64E-4		2152.9	12	0.995	20	
Bromofluorobenzene (FID)	A	2209.5	2170.3	2197.1	2287.3	2435.2	AVRG		4.43E-4		2259.9	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	19	2500.0	0	10000	-13	25000	-3	50000	-2
Bromofluorobenzene (FID)	A	900.00	-2	900.00	-4	900.00	-3	900.00	1	900.00	8

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300379 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 328184879001

Name : TVH_129
Cal Date : 08-MAY-2018

ICV 328184879024 (128_024 09-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8973	ng	-10	15	

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

ENTHALPY SPIKE USER REPORT FOR 300379 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC07 Run Name : QC934819 IDF : 1.0
Seqnum : 328226642002.5 File : 157_002 Time : 06-JUN-2018 10:00
Standards: S36103 (2000X), S37192 (5000X)

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Gasoline C7-C12	A	328184879001	08-MAY-2018	2152.9	2427.8	5000	5638	ng	13	15	u
Benzene	C	328176634001	02-MAY-2018	2159.5			51.65	ng		15	c- ***
Benzene	B	328176634001	02-MAY-2018	33713			60.24	ng		15	c- ***
Toluene	C	328176634001	02-MAY-2018	1982.1			337.4	ng		15	c- ***
Toluene	B	328176634001	02-MAY-2018	31621			333.0	ng		15	c- ***
Ethylbenzene	C	328176634001	02-MAY-2018	1633.5			72.62	ng		15	c- ***
Ethylbenzene	B	328176634001	02-MAY-2018	27589			74.60	ng		15	c- ***
m,p-Xylenes	C	328176634001	02-MAY-2018	2222.1			255.8	ng		15	c- ***
m,p-Xylenes	B	328176634001	02-MAY-2018	34401			256.5	ng		15	c- ***
o-Xylene	C	328176634001	02-MAY-2018	1919.2			107.1	ng		15	c- ***
o-Xylene	B	328176634001	02-MAY-2018	28150			108.5	ng		15	c- ***
Bromofluorobenzene (FID)	A	328184879001	08-MAY-2018	2259.9	2095.4	900.0	834.5	ng	-7	15	u

Analyst: JM2 Date: 06/07/18 Reviewer: EAH Date: 06/13/18

--low bias c=CCV u=use

ENTHALPY SPIKE USER REPORT FOR 300379 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : QC934793 IDF : 1.0
 Seqnum : 328226642003.2 File : 157_003 Time : 06-JUN-2018 10:38
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	C	2159.5	2056.5	50.00	47.62	ng	-5	15	u
Benzene	B	33713	34196	50.00	50.72	ng	1	15	
Toluene	C	1982.1	1868.6	50.00	47.14	ng	-6	15	u
Toluene	B	31621	31429	50.00	49.70	ng	-1	15	
Ethylbenzene	C	1633.5	1569.1	50.00	48.03	ng	-4	15	u
Ethylbenzene	B	27589	27045	50.00	49.01	ng	-2	15	
m,p-Xylenes	C	2222.1	2138.0	50.00	48.11	ng	-4	15	u
m,p-Xylenes	B	34401	35073	50.00	50.98	ng	2	15	
o-Xylene	C	1919.2	1777.5	50.00	46.31	ng	-7	15	u
o-Xylene	B	28150	28546	50.00	50.70	ng	1	15	
Bromofluorobenzene (PID)	C	1732.9	1417.6	900.0	736.3	ng	-18	15	c- u
Bromofluorobenzene (PID)	B	25465	22563	900.0	797.4	ng	-11	15	

Analyst: JM2 Date: 06/07/18 Reviewer: EAH Date: 06/13/18

--low bias c=CCV u=use

ENTHALPY SPIKE USER REPORT FOR 300379 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC934792 IDF : 1.0
 Seqnum : 328226642004.4 File : 157_004 Time : 06-JUN-2018 11:17
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36103 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2381.9	5000	5532	ng	11	15	u
Bromofluorobenzene (FID)	A	2259.9	2135.6	900.0	850.5	ng	-5	15	u

Analyst: JM2 Date: 06/07/18 Reviewer: EAH Date: 06/13/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328226642012 File : 157_012 Time : 06-JUN-2018 17:08
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2127.1	10000	9880	ng	-1	15	
Bromofluorobenzene (FID)	A	2259.9	2180.3	900.0	868.3	ng	-4	15	

Analyst: CJN Date: 06/07/18 Reviewer: EAH Date: 06/07/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328226642014 File : 157_014 Time : 06-JUN-2018 18:24
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	B	33713	31467	100.0	93.34	ng	-7	15	
Toluene	B	31621	28604	100.0	90.46	ng	-10	15	
Ethylbenzene	B	27589	24845	100.0	90.05	ng	-10	15	
m,p-Xylenes	B	34401	30318	100.0	88.13	ng	-12	15	
o-Xylene	B	28150	26320	100.0	93.50	ng	-6	15	
Bromofluorobenzene (PID)	B	25465	23465	900.0	829.3	ng	-8	15	
Benzene	C	2159.5	1909.7	100.0	88.44	ng	-12	15	
Toluene	C	1982.1	1712.9	100.0	86.42	ng	-14	15	
Ethylbenzene	C	1633.5	1439.9	100.0	88.15	ng	-12	15	
m,p-Xylenes	C	2222.1	1856.1	100.0	83.53	ng	-16	15	c- ***
o-Xylene	C	1919.2	1612.1	100.0	84.00	ng	-16	15	c- ***
Bromofluorobenzene (PID)	C	1732.9	1449.0	900.0	752.6	ng	-16	15	c-

CJN 06/07/18 : m,p-Xylenes and o-Xylenes out low, reporting from ch B, using ch C as confirmation.

CJN 06/07/18 [Bromofluorobenzene (PID) C]: Passes control limits.

Analyst: CJN Date: 06/07/18 Reviewer: EAH Date: 06/07/18

--low bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328226642021 File : 157_021 Time : 06-JUN-2018 23:19
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2051.0	15000	14290	ng	-5	15	
Bromofluorobenzene (FID)	A	2259.9	2129.6	900.0	848.1	ng	-6	15	

Analyst: CJN Date: 06/07/18 Reviewer: EAH Date: 06/07/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328176634

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/02/18 15:54
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std	Used
001	122_001	IB	CALIB			05/02/18 15:54	1.0	1	
002	122_002	ICAL	TVH_14			05/02/18 16:33	1.0	2	1
003	122_003	ICAL	TVH_15			05/02/18 17:11	1.0	3	1
004	122_004	ICAL	TVH_16			05/02/18 17:49	1.0	4	1
005	122_005	ICAL	TVH_17			05/02/18 18:28	1.0	5	1
006	122_006	ICAL	TVH_18			05/02/18 19:06	1.0	5	1
007	122_007	IB				05/02/18 19:44	1.0	1	
008	122_008	ICV	TVH			05/02/18 20:23	1.0	6	1
009	122_009	X	ICV			05/02/18 21:00	1.0	6	1
010	122_010	CMARKER				05/02/18 21:39	1.0	7	1
011	122_011	IB	CALIB			05/02/18 22:17	1.0	1	
012	122_012	ICAL	BTXE_1			05/02/18 22:56	1.0	8	1
013	122_013	ICAL	MBTXE_2			05/02/18 23:34	1.0	9	1
014	122_014	ICAL	MBTXE_3			05/03/18 00:12	1.0	9	1
015	122_015	ICAL	MBTXE_4			05/03/18 00:50	1.0	9	1
016	122_016	ICAL	MBTXE_5			05/03/18 01:28	1.0	10	1
017	122_017	ICAL	MBTXE_6			05/03/18 02:07	1.0	10	1
018	122_018	ICAL	MBTXE_7			05/03/18 02:45	1.0	10	1
019	122_019	IB				05/03/18 03:23	1.0	1	
020	122_020	ICV	MBTXE			05/03/18 04:01	1.0	11	1
021	122_021	X	ICV			05/03/18 04:40	1.0	11	1

PAW 05/04/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 21.

Reviewed by: PAW Date: 05/04/18

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S35319 8=S35889 9=S36294 10=S35887 11=S36861

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328184879

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/08/18 09:19
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	128_001	X	CMARKER			05/08/18 09:19	1.0	1 2	
002	128_002	CCV	TVH			05/08/18 09:58	1.0	3 2	
003	128_003	CCV/LCS	QC931207	Water	259308	05/08/18 10:36	1.0	4 2	
004	128_004	CCV	TVH			05/08/18 11:15	1.0	3 2	
005	128_005	CCV	BTXE			05/08/18 11:53	1.0	4 2	
006	128_006	BLANK	QC931206	Water	259308	05/08/18 12:31	1.0	2	
007	128_007	MSS	299300-001	Water	259308	05/08/18 15:18	1.0	2	headspace > 1 mL
008	128_008	CCV	BTXE			05/08/18 15:57	1.0	4 2	
011	128_011	IB				05/08/18 17:57	1.0	2	
012	128_012	IB				05/08/18 18:35	1.0	2	
013	128_013	IB				05/08/18 19:13	1.0	2	
014	128_014	IB				05/08/18 19:51	1.0	2	
015	128_015	IB				05/08/18 20:30	1.0	2	
016	128_016	IB	CALIB			05/08/18 21:08	1.0	2	
017	128_017	ICAL	TVH_14			05/08/18 21:46	1.0	5 2	
018	128_018	ICAL	TVH_15			05/08/18 22:25	1.0	6 2	
019	128_019	ICAL	TVH_16			05/08/18 23:03	1.0	7 2	
020	128_020	ICAL	TVH_17			05/08/18 23:42	1.0	8 2	
021	128_021	ICAL	TVH_18			05/09/18 00:20	1.0	8 2	
022	128_022	IB				05/09/18 00:58	1.0	2	
023	128_023	X	ICV			05/09/18 01:37	1.0	9 2	
024	128_024	ICV	TVH			05/09/18 02:15	1.0	9 2	
025	128_025	CMARKER				05/09/18 02:54	1.0	1 2	

Reviewed by: _____ Date: _____

Standards used: 1=S35319 2=S36233 3=S36103 4=S36185 5=S36893 6=S36892 7=S36891 8=S36890 9=S36894

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328226642

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 06/06/18 09:22
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	157_001	X	CMARKER			06/06/18 09:22	1.0	1 2	
002	157_002	CCV/LCS	QC934819	Soil	260234	06/06/18 10:00	1.0	3 2	
003	157_003	CCV/BS	QC934793	Water	260228	06/06/18 10:38	1.0	4 2	
004	157_004	CCV/LCS	QC934792	Water	260228	06/06/18 11:17	1.0	3 2	
005	157_005	BSD	QC934794	Water	260228	06/06/18 11:55	1.0	4 2	
006	157_006	BLANK	QC934820	Soil	260234	06/06/18 12:33	1.0	2	
007	157_007	BLANK	QC934795	Water	260228	06/06/18 13:45	1.0	2	
008	157_008	SAMPLE	300379-023	Water	260228	06/06/18 14:34	1.0	2	headspace > 1 mL
009	157_009	SAMPLE	300370-001	Water	260228	06/06/18 15:13	1.0	2	
010	157_010	SAMPLE	300379-022	Water	260228	06/06/18 15:51	5.0	2	
011	157_011	SAMPLE	300394-022	Water	260228	06/06/18 16:30	1.0	2	
012	157_012	CCV	TVH			06/06/18 17:08	1.0	5 2	
013	157_013	X	CMARKER			06/06/18 17:46	1.0	1 2	
014	157_014	CCV	BTXE			06/06/18 18:24	1.0	4 2	
015	157_015	SAMPLE	300412-024	Water	260228	06/06/18 19:30	1.0	2	headspace <= 1 mL
016	157_016	MSS	300441-001	Water	260228	06/06/18 20:08	1.0	2	
017	157_017	SAMPLE	300444-001	Water	260228	06/06/18 20:46	5.0	2	diluted (odor)
018	157_018	SAMPLE	300408-001	Water	260228	06/06/18 21:25	1.0	2	headspace > 1 mL
019	157_019	MS	QC934796	Water	260228	06/06/18 22:03	1.0	5 2	
020	157_020	MSD	QC934797	Water	260228	06/06/18 22:41	1.0	5 2	
021	157_021	CCV	TVH			06/06/18 23:19	1.0	5 2	
022	157_022	X	CMARKER			06/06/18 23:58	1.0	1 2	
023	157_023	CCV	BTXE			06/07/18 00:36	1.0	4 2	
024	157_024	SAMPLE	300412-001	Soil	260234	06/07/18 01:14	1.0	2	
025	157_025	SAMPLE	300412-002	Soil	260234	06/07/18 01:52	1.0	2	
026	157_026	SAMPLE	300412-003	Soil	260234	06/07/18 02:31	1.0	2	
027	157_027	SAMPLE	300412-004	Soil	260234	06/07/18 03:09	1.0	2	
028	157_028	SAMPLE	300412-005	Soil	260234	06/07/18 03:47	1.0	2	
029	157_029	SAMPLE	300412-006	Soil	260234	06/07/18 04:25	1.0	2	
030	157_030	SAMPLE	300412-007	Soil	260234	06/07/18 05:03	1.0	2	
031	157_031	MSS	300413-005	Soil	260234	06/07/18 05:42	1.0	2	
032	157_032	SAMPLE	300413-010	Soil	260234	06/07/18 06:20	1.0	2	
033	157_033	SAMPLE	300413-014	Soil	260234	06/07/18 06:58	1.0	2	
034	157_034	CCV	TVH			06/07/18 07:36	1.0	5 2	
035	157_035	X	CMARKER			06/07/18 08:14	1.0	1 2	
036	157_036	SAMPLE	300446-001	Soil	260234	06/07/18 08:52	1.0	2	
037	157_037	MS	QC934821	Soil	260234	06/07/18 09:31	1.0	5 2	
038	157_038	MSD	QC934822	Soil	260234	06/07/18 10:09	1.0	5 2	
039	157_039	CCV	TVH			06/07/18 10:47	1.0	5 2	
040	157_040	X	CMARKER			06/07/18 11:25	1.0	1 2	

CJN 06/07/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

Reviewed by: CJN Date: 06/07/18

Standards used: 1=S36859 2=S37192 3=S36103 4=S36185 5=S36848

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #: 06-15-2017

pH paper (<2.55U), lot: 230315

pH paper (0-14SU), lot: 10B24H1271

Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSVQA?	# unused vials remaining	RR #	DF	Comments	hold	due	Initial/Date
300230-1	B	Y										JM2 5/31/18
↓ -2	↓	↓										↓
↓ -3	F	↓										↓
↓ -4	E	↓										↓
300239-13	B	Y										↓
↓ -13 MS	↓	↓										↓
↓ -13 MSD	↓	↓										↓
300270-1	A	Y										JM2 6/1/18
↓ -1 MS	↓	↓										↓
↓ -1 MSD	↓	↓										↓
300370-1	A	Y										JM2 6/5/18
↓ -1 MS	↓	↓										↓
↓ -1 MSD	↓	↓										↓
300124-1	A	N	7						↑ tested w/ hydroxamine lot # BPH1587C S10			↓
Preobk	-	N	6						↓			↓
300379-22	A	Y						1000/5000	diluted due to matrix			↓
↓ -23	↓	↓		Y					HL			↓
300394-20	B	N	3					JM2 100/5000 6/5/18 1000/5000	Solid layer of sludge covering liquid portion			↓
↓ -21	A	Y										↓
↓ -22	↓	↓	7					1000/5000	diluted due to matrix			↓
↓ -23	E	Y										↓
↓ -24	B	↓										↓
↓ -25	E	↓										↓
300394-22	B	Y										JM2 6/8/18
300370-1	C	↓										JM2 6/1/18
300379-22	↓	↓						1000/5000	diluted due to matrix			↓
↓ -23	A	↓		Y					HM			↓

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

06-15-2017
 5mL disposable pipettes, lot #: ~~06-245~~ 772 pH paper (<2.5SU), lot: 230715
~~6/6/18~~ 6/6/18 pH paper (0-14SU), lot: 1080 H271

	Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSV/OA?	# unused vials remaining	RR #	DF	Comments	hold	due	Rush	Initial/Date
1	300408-1	A	Y		Y					H/M				JMC 6/6/18
2	300441-1	D												
3	300444-1	B			Y				1000/5000	H/M, odor				
4	300412-24	A			Y					HL				
5	300441-1 MS D	D												
6	I -1 MSD I	I												
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														

TITLE	PROJECT	DATE
Continued from page		
Sample	Weight (g)	Comments: Initials
300379-13	A 37.59 - 30.508 - 0.2 = 6.88	No JMZ 6/5/18 B-6
↓ -14	↓ 37.67 - 30.600 - 0.2 = 6.87	↓ ↓ ↓
5 ↓ -15	↓ 37.63 - 30.510 - 0.2 = 6.92	
300379-16	A 38.60 - 30.561 - 0.2 = 7.84	No JMZ 6/5/18 B-6
↓ -17	↓ 38.32 - 30.627 - 0.2 = 7.49	↓ ↓ ↓
↓ -18	↓ 38.38 - 30.678 - 0.2 = 7.50	
↓ -19	↓ 38.26 - 30.588 - 0.2 = 7.47	
10 ↓ -20	↓ 35.97 - 30.619 - 0.2 = 5.15	
↓ -21	↓ 38.12 - 30.538 - 0.2 = 7.38	
300394-1	B 0.91	No CJN 6/6/18 B-6
↓ -2	↓ 0.93	
↓ -3	↓ 1.07	
15 ↓ -4	↓ 0.97	
↓ -5	↓ 1.04	
↓ -6	↓ 0.93	
↓ -7	↓ 1.06	
↓ -8	↓ 1.00	
20 ↓ -9	↓ 0.96	
↓ -10	↓ 1.01	
↓ -10 MS	↓ 0.98	
↓ -10 MSD	↓ 0.99	
↓ -11	↓ 1.00	
25 ↓ -12	↓ 0.93	
↓ -13	↓ 0.99	
↓ -14	↓ 1.03	
↓ -15	↓ 1.02	
↓ -16	↓ 0.92	
30 ↓ -17	↓ 1.00	
↓ -18	↓ 1.00	
↓ -19	↓ 0.90	
300442-1	A 0.95	No JMZ 6/6/18 B-6
300413-5	A 0.92	comp of 413-(1-4)
↓ -10	↓ 0.94	↓ -(6-9)
↓ -14	↓ 1.04	↓ -(11-13)
300412-1	A 38.23 - 30.522 - 0.2 = 7.51	
↓ -2	↓ 36.35 - 30.728 - 0.2 = 5.42	
↓ -3	↓ 37.65 - 30.672 - 0.2 = 6.78	
40 ↓ -4	↓ 38.13 - 30.843 - 0.2 = 7.09	
↓ -5	↓ 38.40 - 30.875 - 0.2 = 7.33	
↓ -6	↓ 38.63 - 30.490 - 0.2 = 7.94	
↓ -7	↓ 37.40 - 30.842 - 0.2 = 6.36	
300413-5 MS	1.04	
45 ↓ -5 MSD	↓ 0.99	
SIGNATURE		DATE
DISCLOSED TO AND UNDERSTOOD BY	DATE	PROPRIETARY INFORMATION

Continued to page

REPORTING SUMMARY FOR 300379 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
300379-022	Gasoline C7-C12	GC07	A	06/06/18 15:51
300379-022	Benzene	GC07	B	06/06/18 15:51
300379-022	Toluene	GC07	B	06/06/18 15:51
300379-022	Ethylbenzene	GC07	B	06/06/18 15:51
300379-022	m,p-Xylenes	GC07	B	06/06/18 15:51
300379-022	o-Xylene	GC07	B	06/06/18 15:51
300379-022	Bromofluorobenzene (FID)	GC07	A	06/06/18 15:51
300379-022	Bromofluorobenzene (PID)	GC07	B	06/06/18 15:51
300379-023	Gasoline C7-C12	GC07	A	06/06/18 14:34
300379-023	Benzene	GC07	B	06/06/18 14:34
300379-023	Toluene	GC07	B	06/06/18 14:34
300379-023	Ethylbenzene	GC07	B	06/06/18 14:34
300379-023	m,p-Xylenes	GC07	B	06/06/18 14:34
300379-023	o-Xylene	GC07	B	06/06/18 14:34
300379-023	Bromofluorobenzene (FID)	GC07	A	06/06/18 14:34
300379-023	Bromofluorobenzene (PID)	GC07	B	06/06/18 14:34
QC934795	Gasoline C7-C12	GC07	A	06/06/18 13:45
QC934795	Benzene	GC07	B	06/06/18 13:45
QC934795	Toluene	GC07	B	06/06/18 13:45
QC934795	Ethylbenzene	GC07	B	06/06/18 13:45
QC934795	m,p-Xylenes	GC07	B	06/06/18 13:45
QC934795	o-Xylene	GC07	B	06/06/18 13:45
QC934795	Bromofluorobenzene (FID)	GC07	A	06/06/18 13:45
QC934795	Bromofluorobenzene (PID)	GC07	B	06/06/18 13:45
QC934792	Gasoline C7-C12	GC07	A	06/06/18 11:17
QC934792	Bromofluorobenzene (FID)	GC07	A	06/06/18 11:17
QC934793	Benzene	GC07	C	06/06/18 10:38
QC934793	Toluene	GC07	C	06/06/18 10:38
QC934793	Ethylbenzene	GC07	C	06/06/18 10:38
QC934793	m,p-Xylenes	GC07	C	06/06/18 10:38
QC934793	o-Xylene	GC07	C	06/06/18 10:38
QC934793	Bromofluorobenzene (PID)	GC07	C	06/06/18 10:38
QC934794	Benzene	GC07	B	06/06/18 11:55
QC934794	Toluene	GC07	B	06/06/18 11:55
QC934794	Ethylbenzene	GC07	B	06/06/18 11:55
QC934794	m,p-Xylenes	GC07	B	06/06/18 11:55
QC934794	o-Xylene	GC07	B	06/06/18 11:55
QC934794	Bromofluorobenzene (PID)	GC07	B	06/06/18 11:55
QC934796	Gasoline C7-C12	GC07	A	06/06/18 22:03
QC934796	Bromofluorobenzene (FID)	GC07	A	06/06/18 22:03
QC934797	Gasoline C7-C12	GC07	A	06/06/18 22:41
QC934797	Bromofluorobenzene (FID)	GC07	A	06/06/18 22:41

Laboratory Job Number 300379

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Soil

Gasoline by GC/FID (5035 Prep)			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/04/18
Basis:	dry	Received:	06/05/18

Field ID: BR11-1SB012[3] Moisture: 19%
 Type: SAMPLE Batch#: 260199
 Lab ID: 300379-001 Analyzed: 06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.033 J	0.22	0.014

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	64-134

Field ID: BR11-1SB012[5] Moisture: 16%
 Type: SAMPLE Batch#: 260199
 Lab ID: 300379-002 Analyzed: 06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.017 J	0.19	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	84	64-134

Field ID: BR11-1SB012[7] Moisture: 15%
 Type: SAMPLE Batch#: 260199
 Lab ID: 300379-003 Analyzed: 06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.028 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	64-134

Field ID: BR11-1SB012[10] Moisture: 16%
 Type: SAMPLE Batch#: 260199
 Lab ID: 300379-004 Analyzed: 06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	122	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/04/18
Basis:	dry	Received:	06/05/18

Field ID:	BR11-1SB012[15]	Moisture:	15%
Type:	SAMPLE	Batch#:	260199
Lab ID:	300379-005	Analyzed:	06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.028 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	121	64-134

Field ID:	BR11-1SB012[20]	Moisture:	15%
Type:	SAMPLE	Batch#:	260199
Lab ID:	300379-006	Analyzed:	06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.033 J	0.22	0.014

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	64-134

Field ID:	BR11-1SB012[25]	Moisture:	15%
Type:	SAMPLE	Batch#:	260199
Lab ID:	300379-007	Analyzed:	06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.034 J	0.18	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	64-134

Field ID:	BR11-1SB012[30]	Moisture:	13%
Type:	SAMPLE	Batch#:	260199
Lab ID:	300379-008	Analyzed:	06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.040 J	0.26	0.017

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/04/18
Basis:	dry	Received:	06/05/18

Field ID: BR11-1SB012[35] Moisture: 16%
 Type: SAMPLE Batch#: 260199
 Lab ID: 300379-009 Analyzed: 06/06/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.018 J	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-134

Field ID: BR11-1SB012[40] Moisture: 6%
 Type: SAMPLE Batch#: 260199
 Lab ID: 300379-010 Analyzed: 06/06/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.025 J	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	122	64-134

Field ID: BR11-1SB012[45] Moisture: 8%
 Type: SAMPLE Batch#: 260199
 Lab ID: 300379-011 Analyzed: 06/06/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	64-134

Field ID: BR11-1SB012[50] Moisture: 10%
 Type: SAMPLE Batch#: 260199
 Lab ID: 300379-012 Analyzed: 06/06/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.22	0.014

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	78	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/04/18
Basis:	dry	Received:	06/05/18

Field ID:	DUP06042018-01	Moisture:	14%
Type:	SAMPLE	Batch#:	260199
Lab ID:	300379-013	Analyzed:	06/06/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	120	64-134

Field ID:	BR11-1SB014[3]	Moisture:	19%
Type:	SAMPLE	Batch#:	260199
Lab ID:	300379-014	Analyzed:	06/06/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.027 J	0.18	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	120	64-134

Field ID:	BR11-1SB014[5]	Moisture:	18%
Type:	SAMPLE	Batch#:	260199
Lab ID:	300379-015	Analyzed:	06/06/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.18	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-134

Field ID:	BR11-1SB014[7]	Moisture:	15%
Type:	SAMPLE	Batch#:	260201
Lab ID:	300379-016	Analyzed:	06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.15	0.0079

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/04/18
Basis:	dry	Received:	06/05/18

Field ID:	BR11-1SB014[10]	Moisture:	13%
Type:	SAMPLE	Batch#:	260201
Lab ID:	300379-017	Analyzed:	06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.019 J	0.15	0.0081

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-134

Field ID:	BR11-1SB014[15]	Moisture:	13%
Type:	SAMPLE	Batch#:	260201
Lab ID:	300379-018	Analyzed:	06/06/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.010 J	0.15	0.0081

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	76	64-134

Field ID:	BR11-1SB014[20]	Moisture:	17%
Type:	SAMPLE	Batch#:	260201
Lab ID:	300379-019	Analyzed:	06/06/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.0087 J	0.16	0.0085

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Field ID:	BR11-1SB014[25]	Moisture:	7%
Type:	SAMPLE	Batch#:	260201
Lab ID:	300379-020	Analyzed:	06/06/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.014 J	0.21	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/04/18
Basis:	dry	Received:	06/05/18

Field ID: DUP06042018-02 Moisture: 16%
 Type: SAMPLE Batch#: 260201
 Lab ID: 300379-021 Analyzed: 06/06/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.012 J	0.16	0.0085

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

Type: BLANK Batch#: 260199
 Lab ID: QC934681 Analyzed: 06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.019 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	71	64-134

Type: BLANK Batch#: 260201
 Lab ID: QC934691 Analyzed: 06/05/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.019 J	0.20	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC934678	Batch#:	260199
Matrix:	Soil	Analyzed:	06/05/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.077	108	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	260201
Units:	mg/Kg	Analyzed:	06/05/18
Diln Fac:	1.000		

Type: BS Lab ID: QC934692

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.132	113	80-120

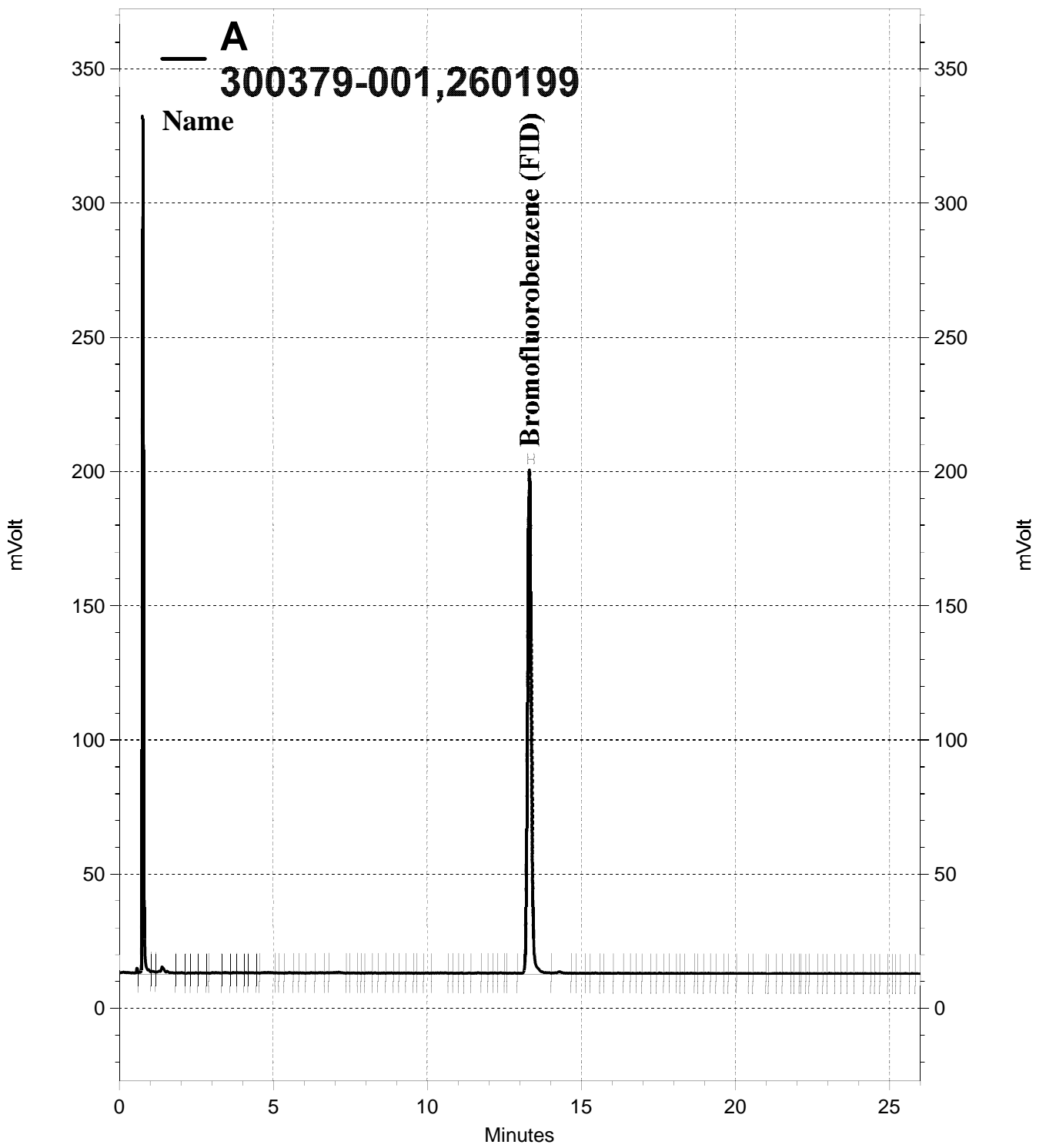
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

Type: BSD Lab ID: QC934693

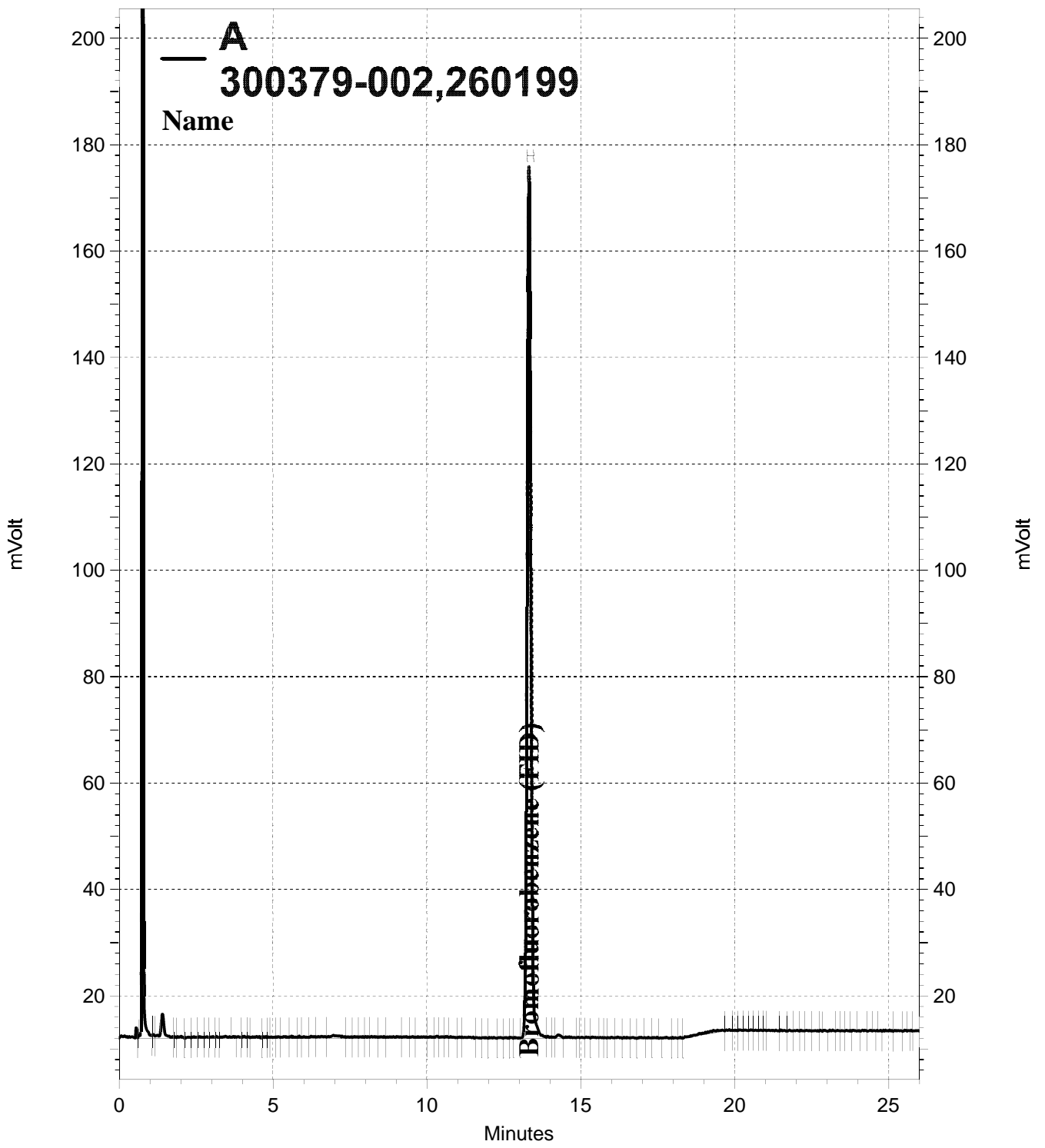
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2.000	1.973	99	80-120	14	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-134

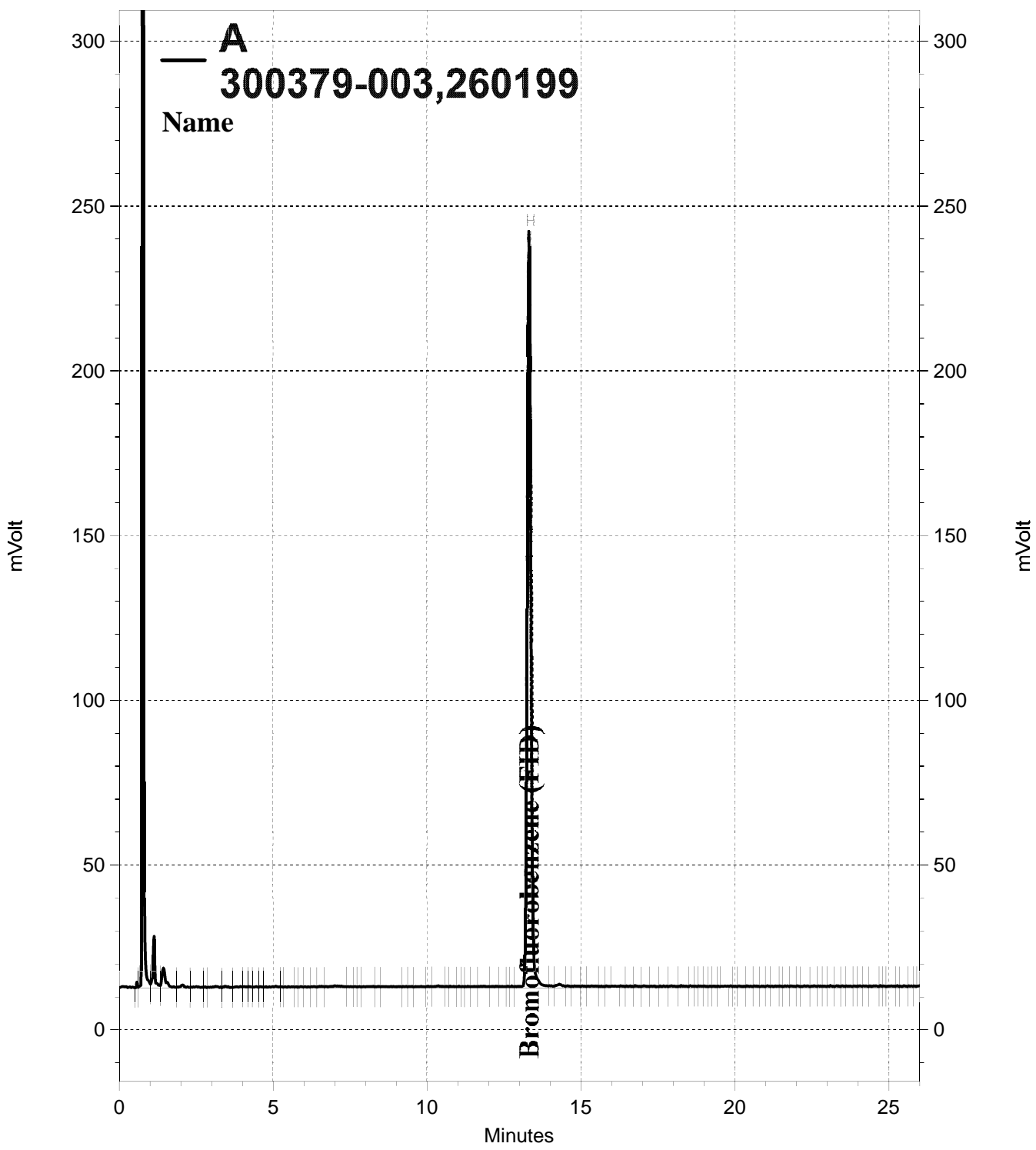
RPD= Relative Percent Difference



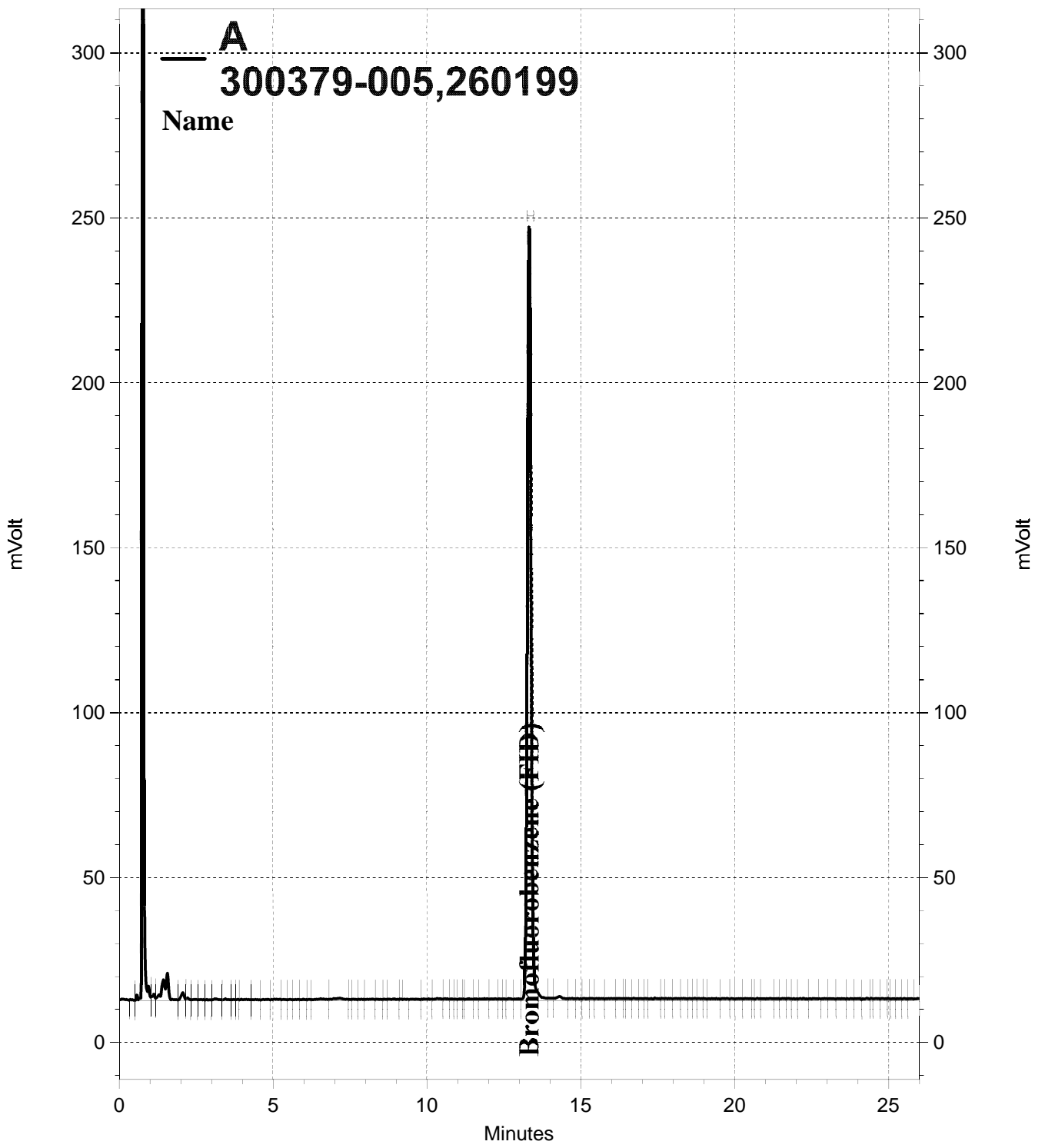
\\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-006, A



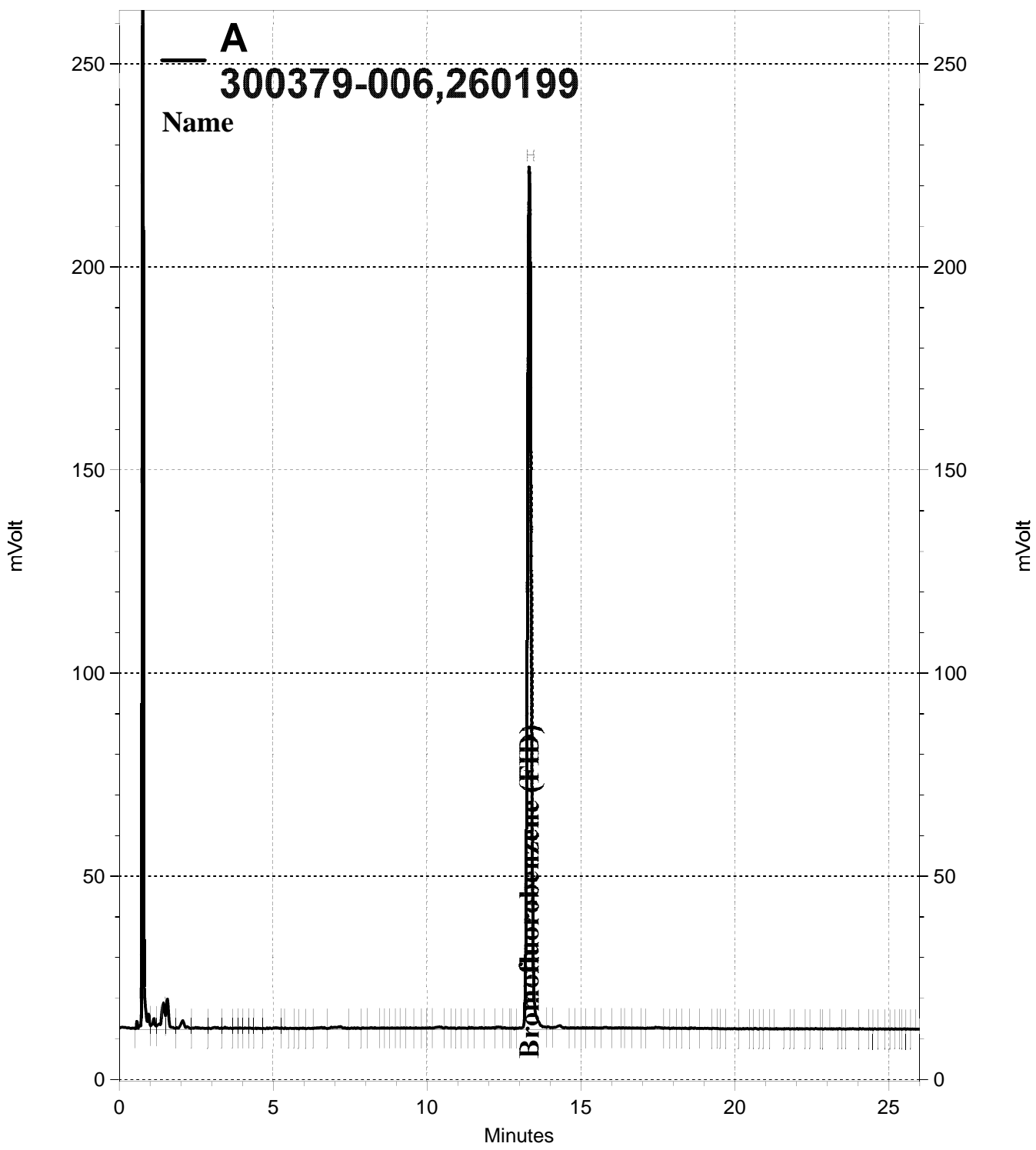
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-007, A



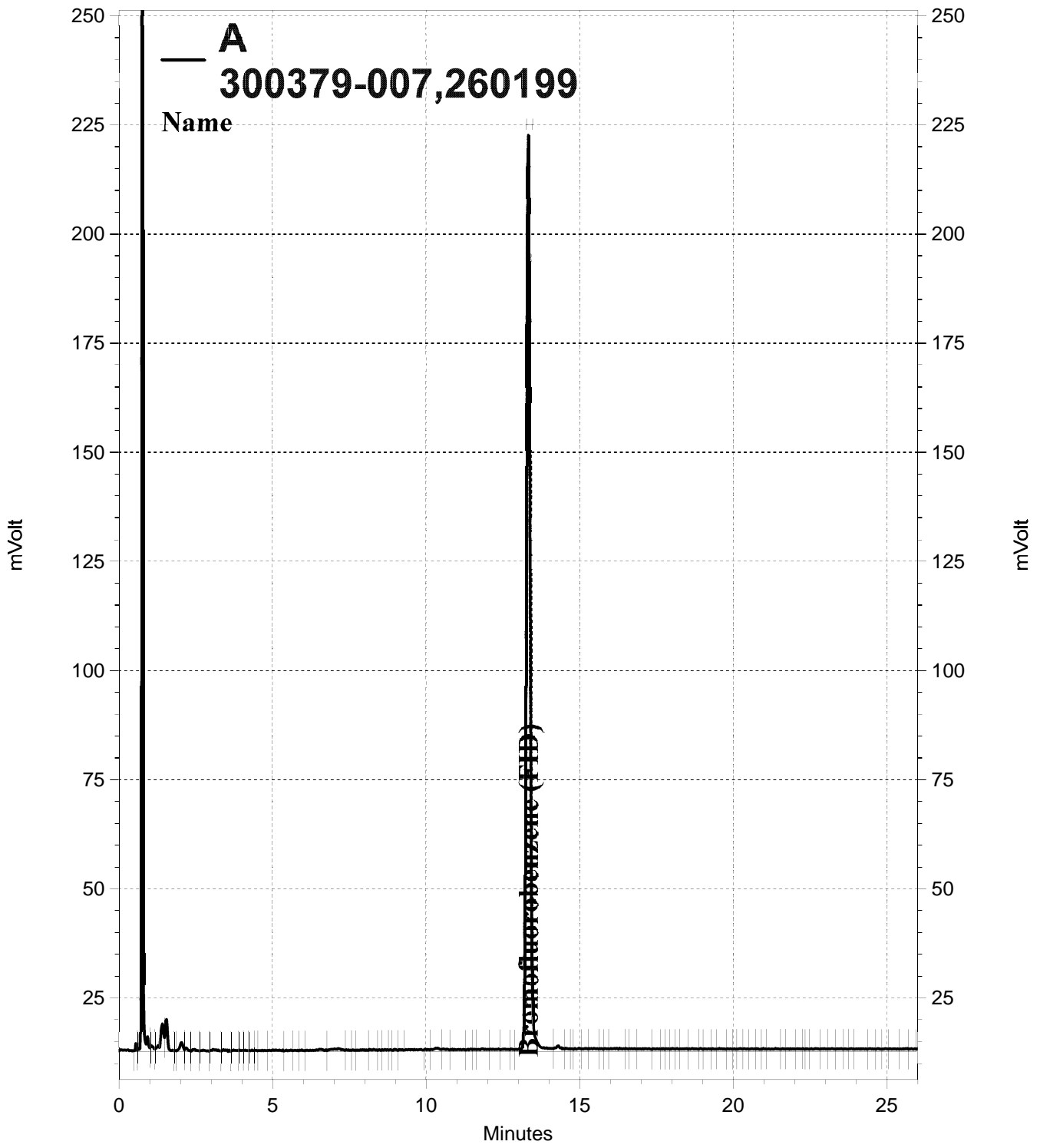
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-008, A



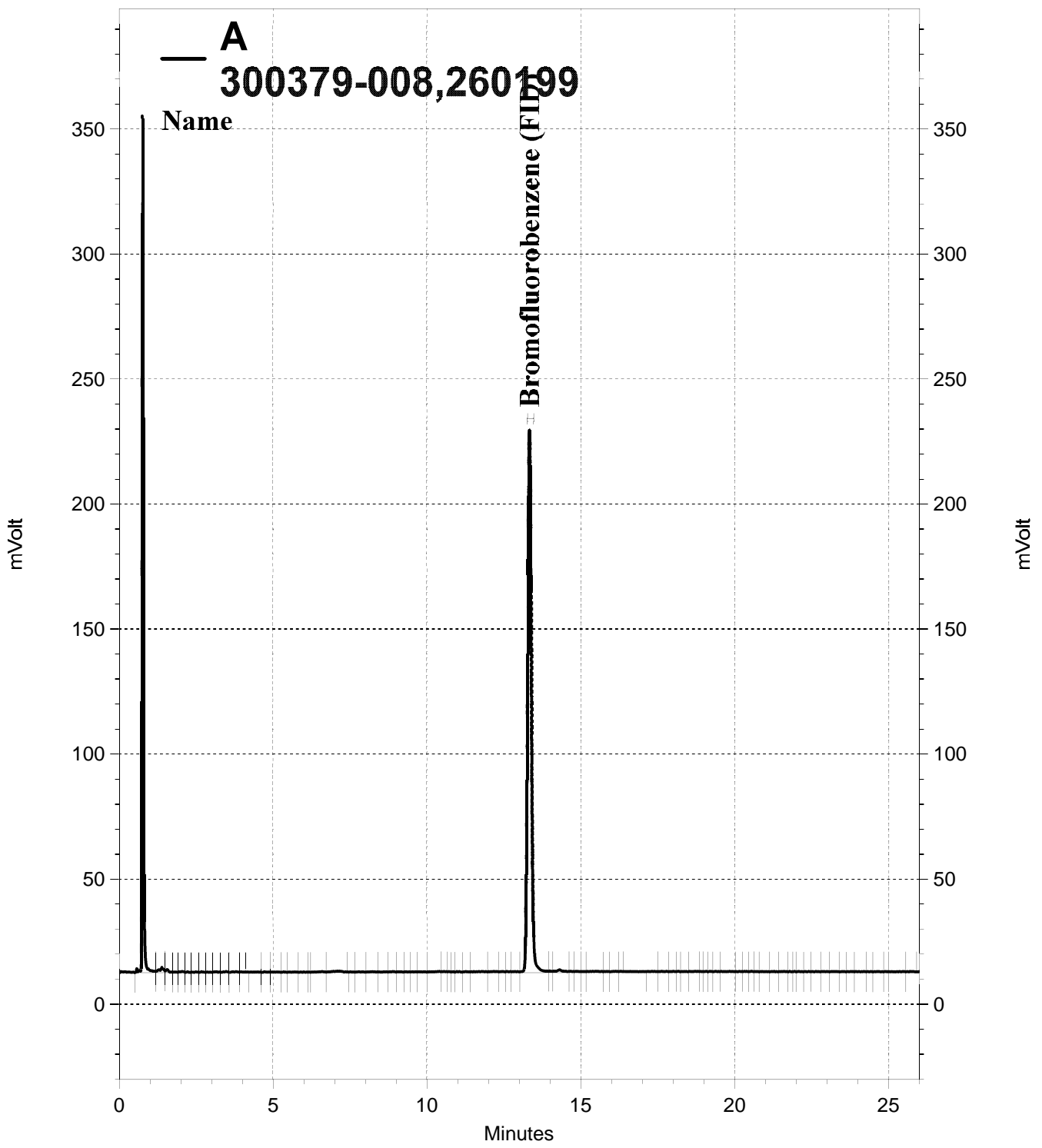
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-017, A



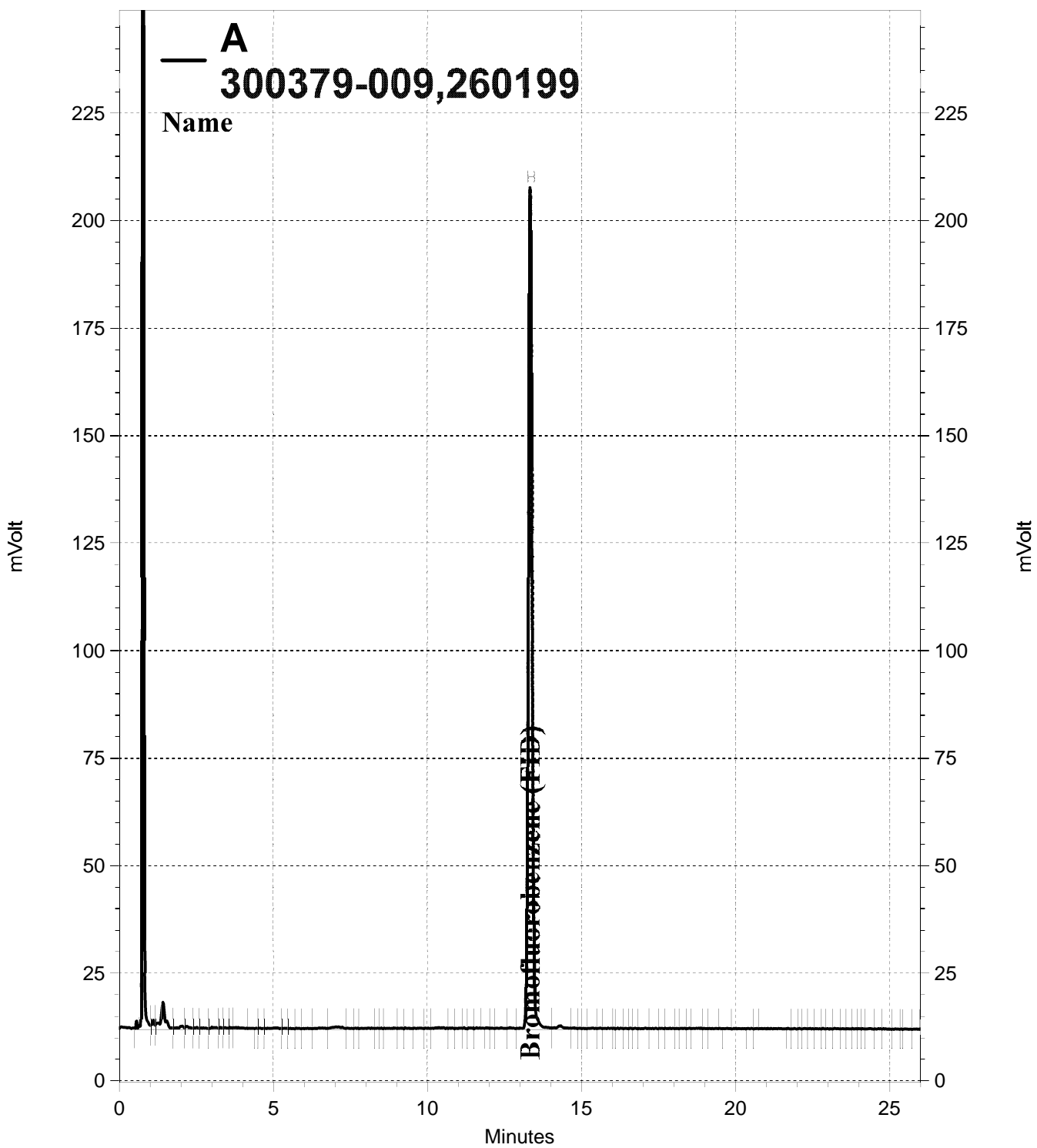
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-018, A



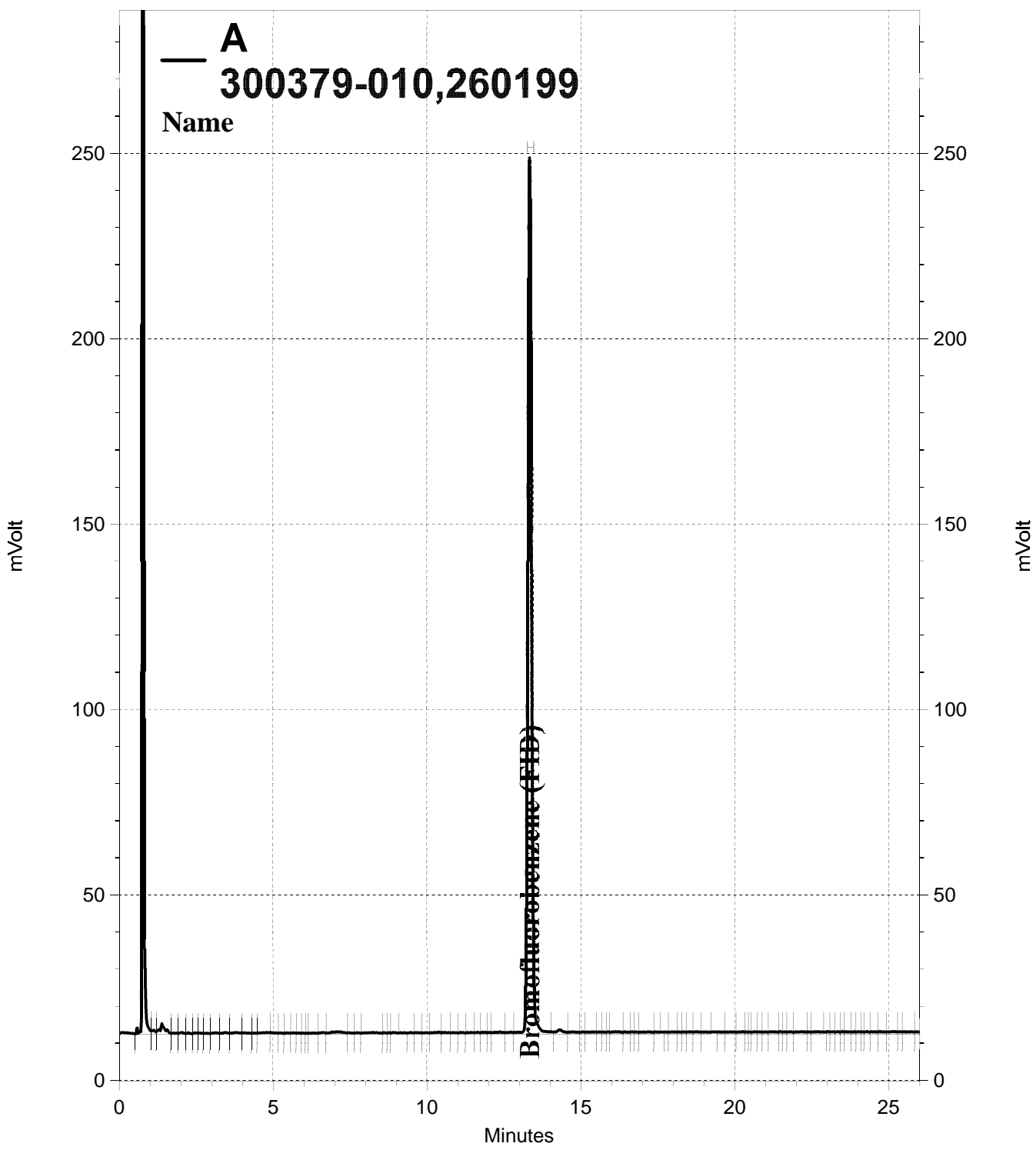
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-019, A



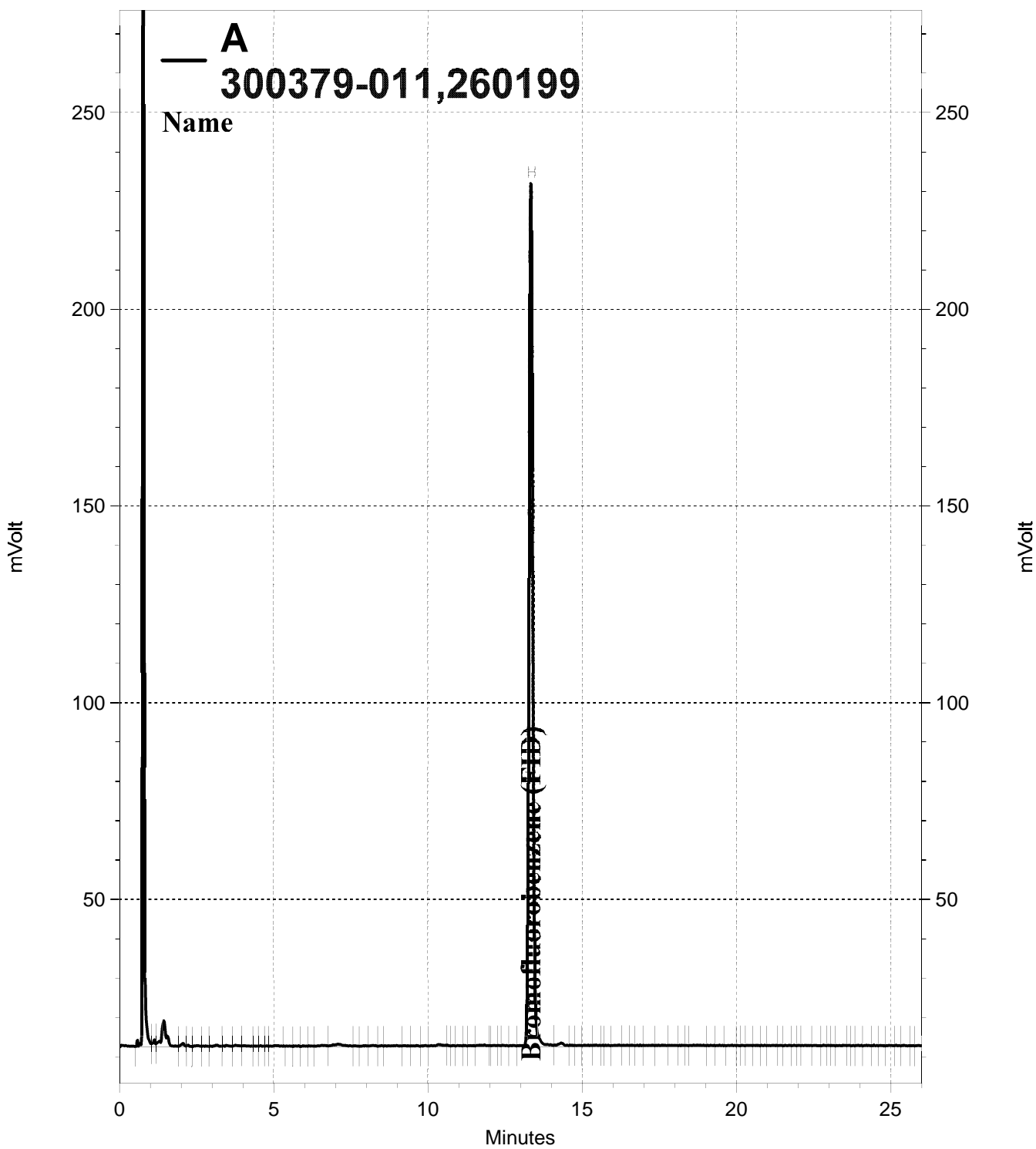
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-020, A



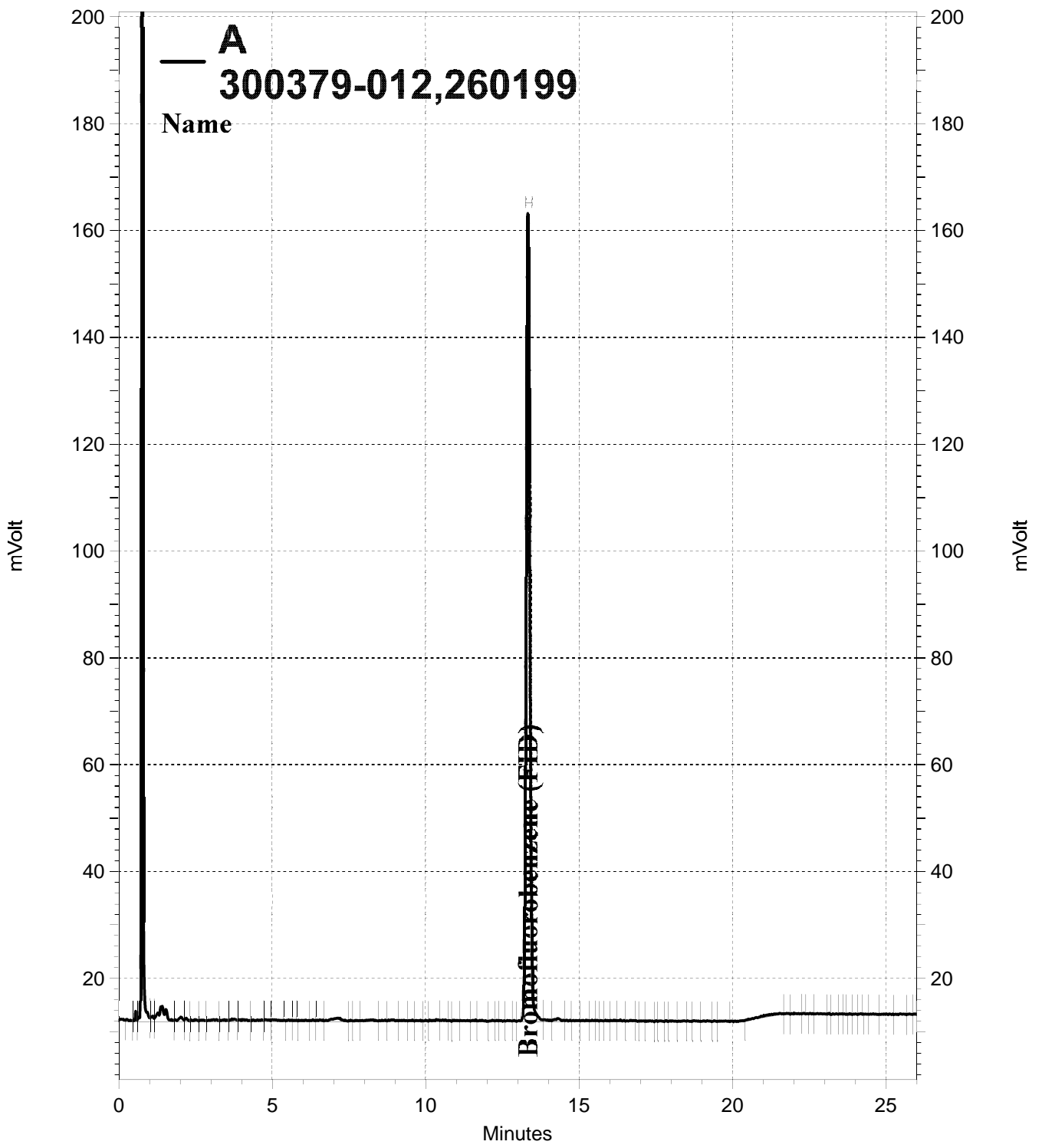
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-021, A



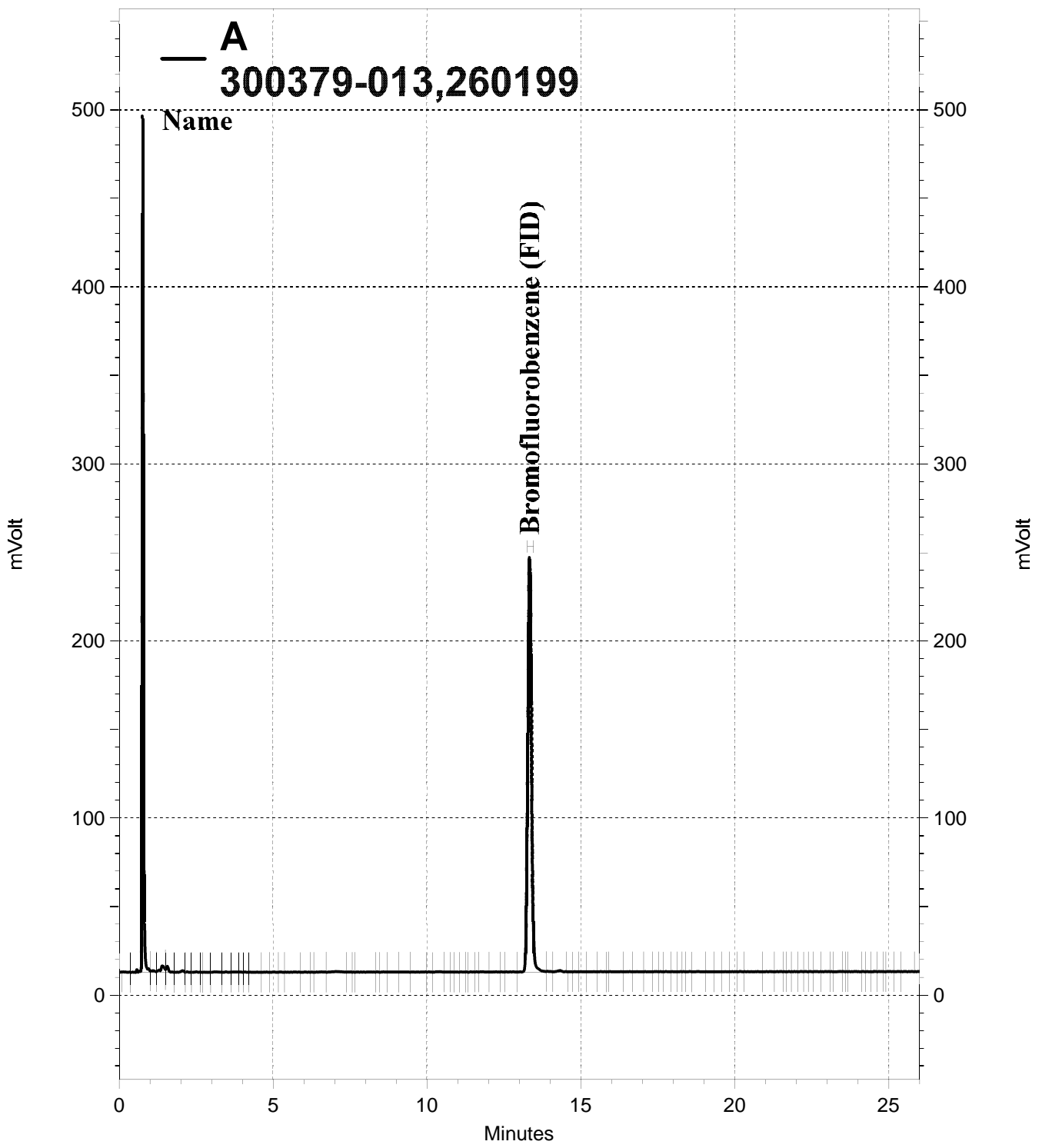
\\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-022, A



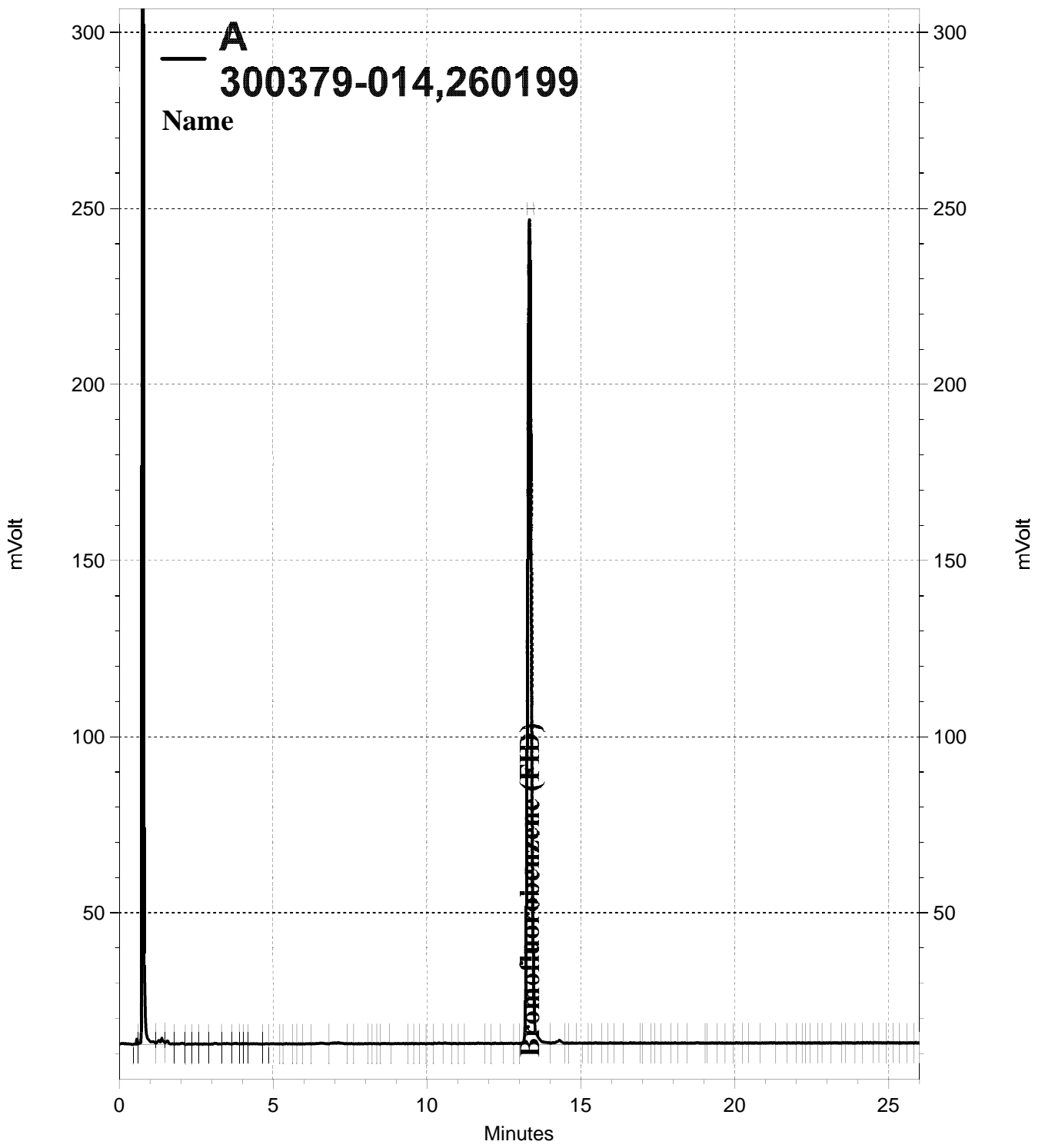
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-023, A



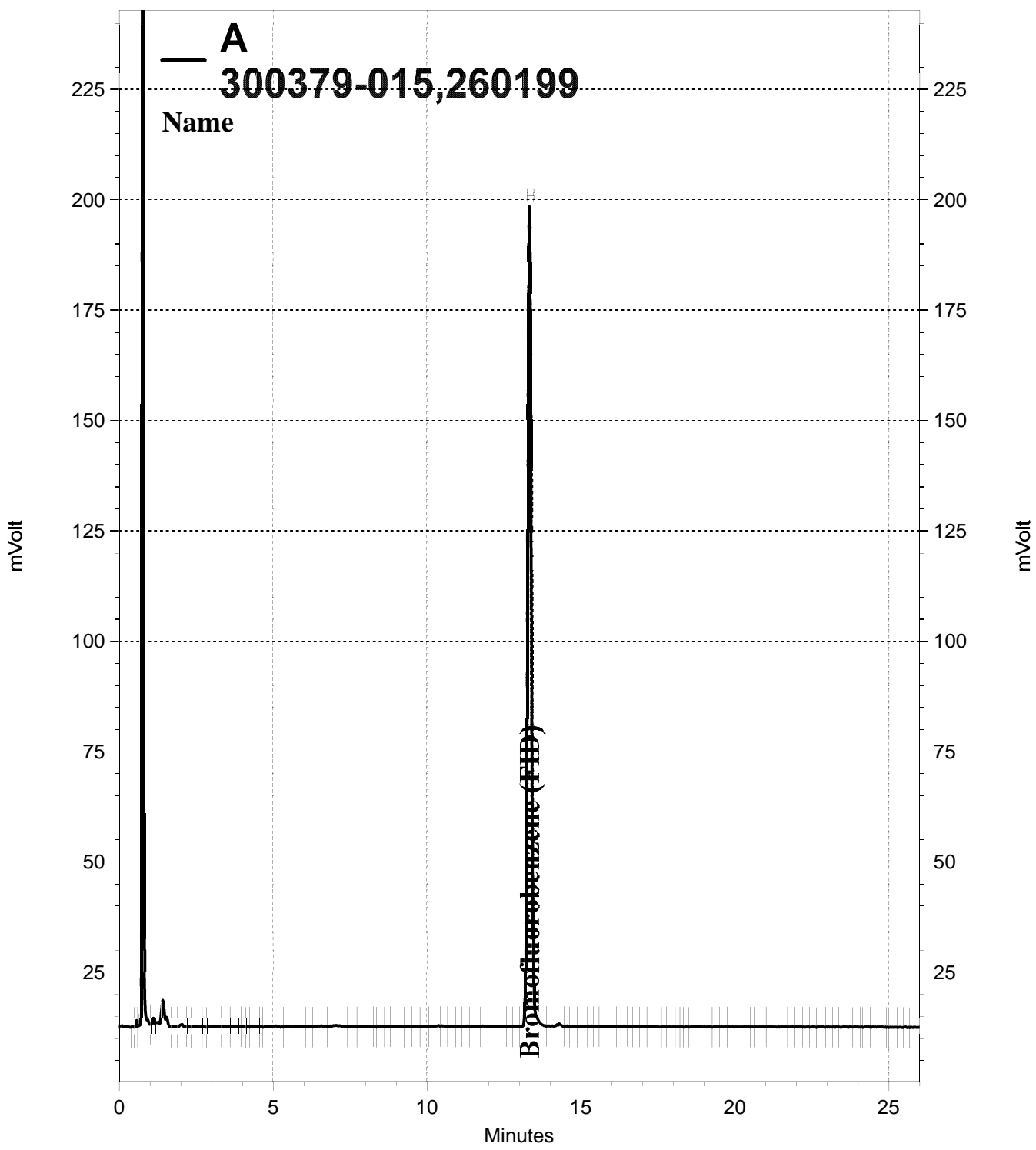
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-024, A



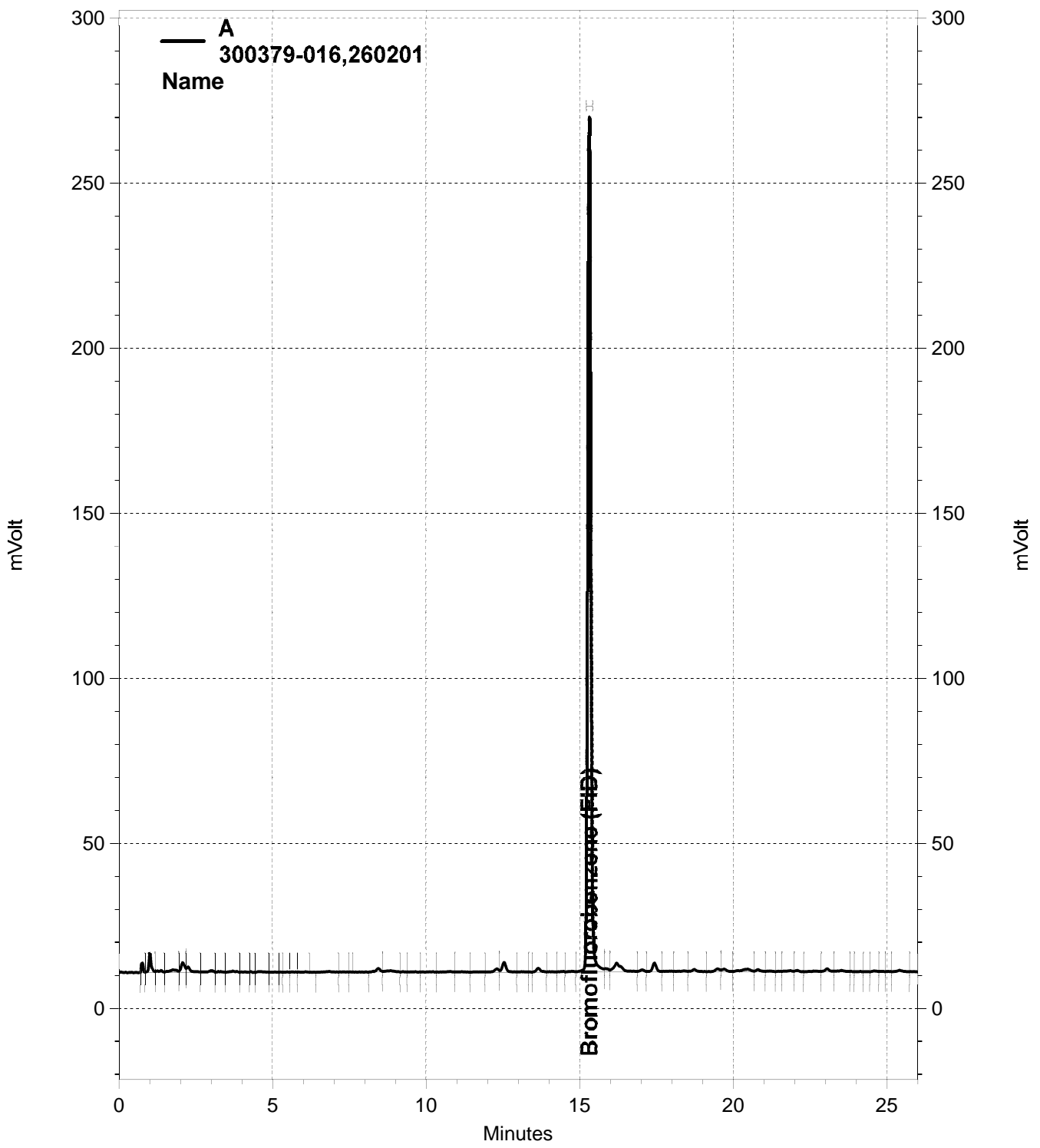
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-025, A



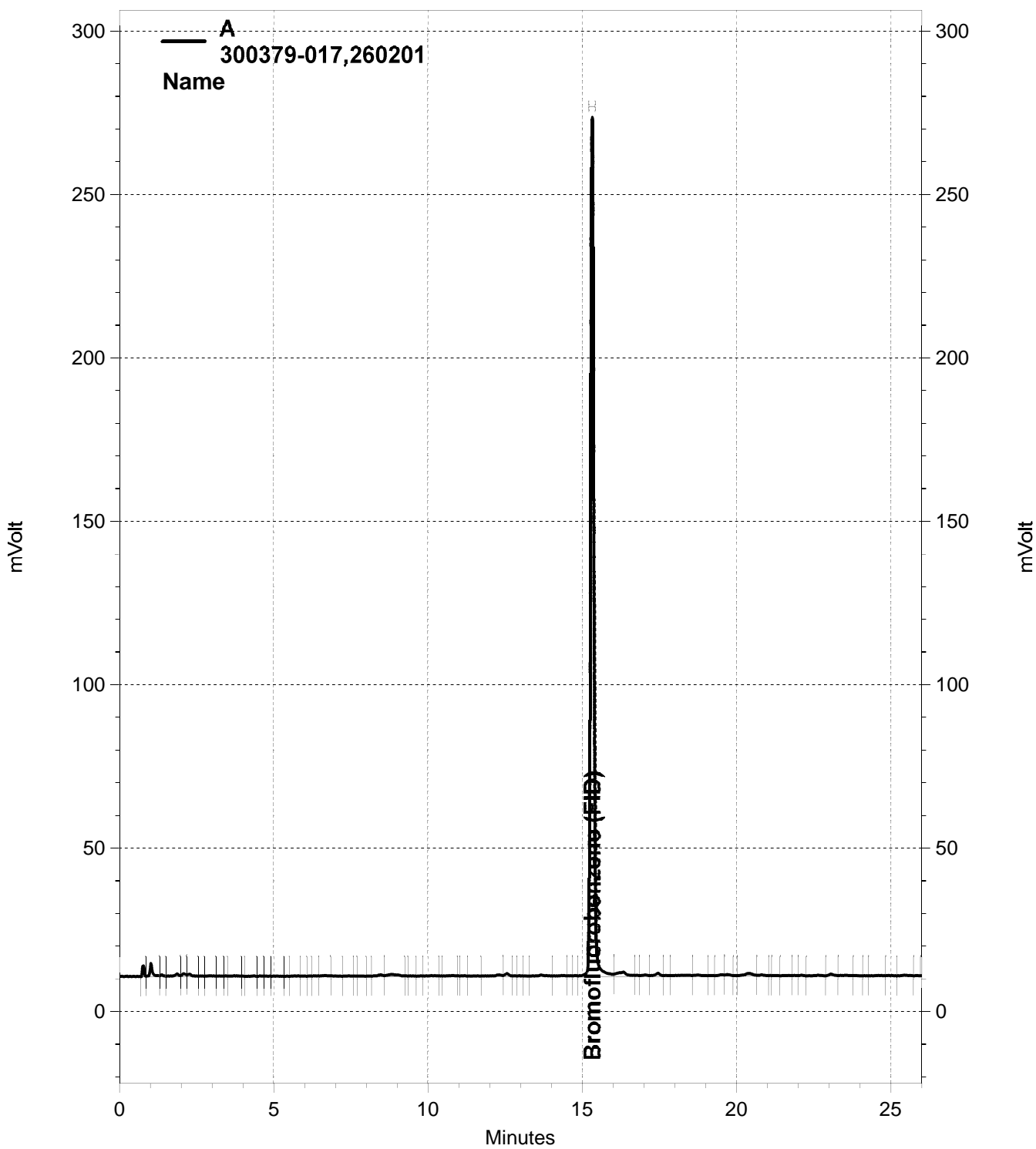
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-028, A



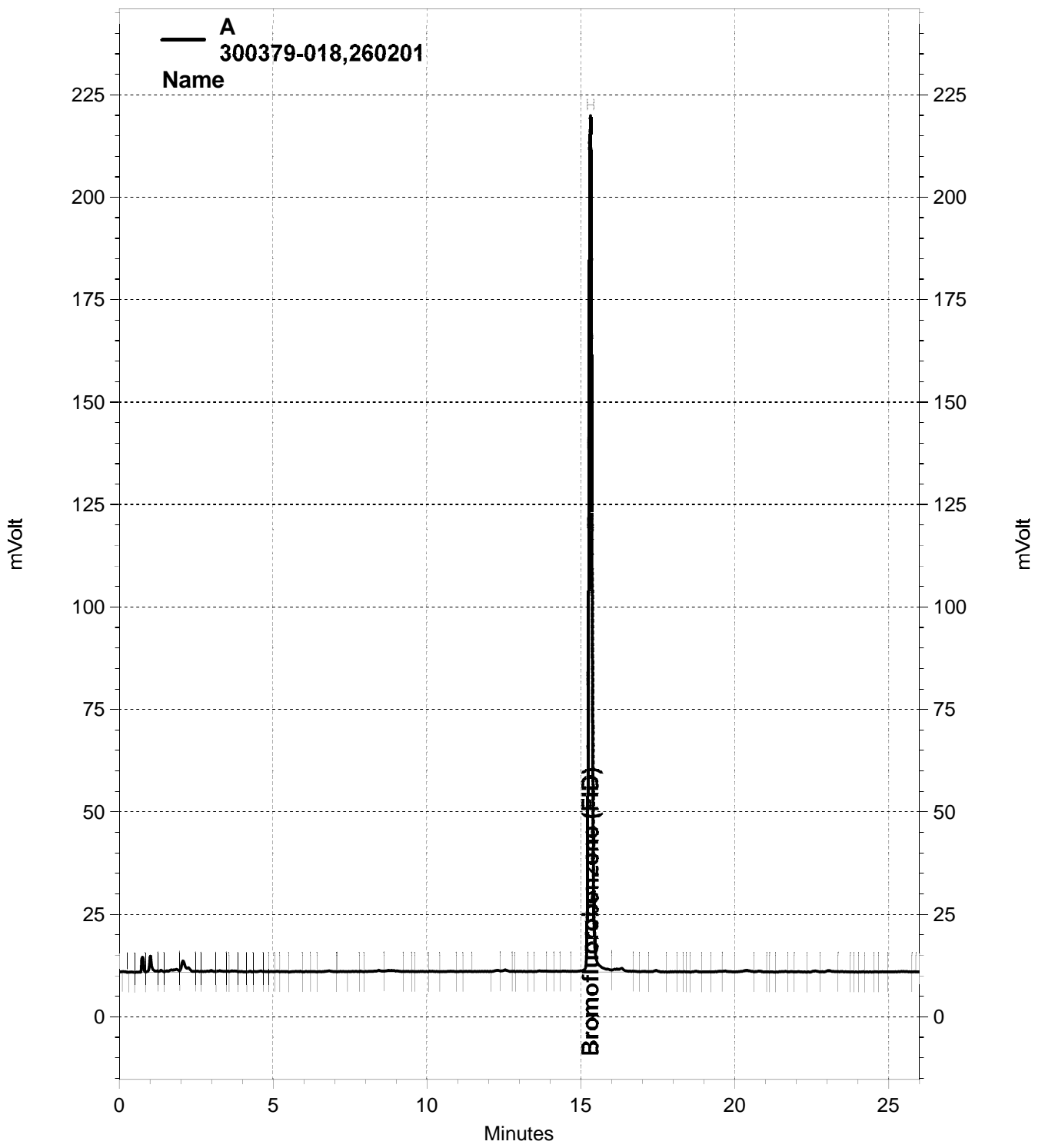
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-029, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\156-020, A

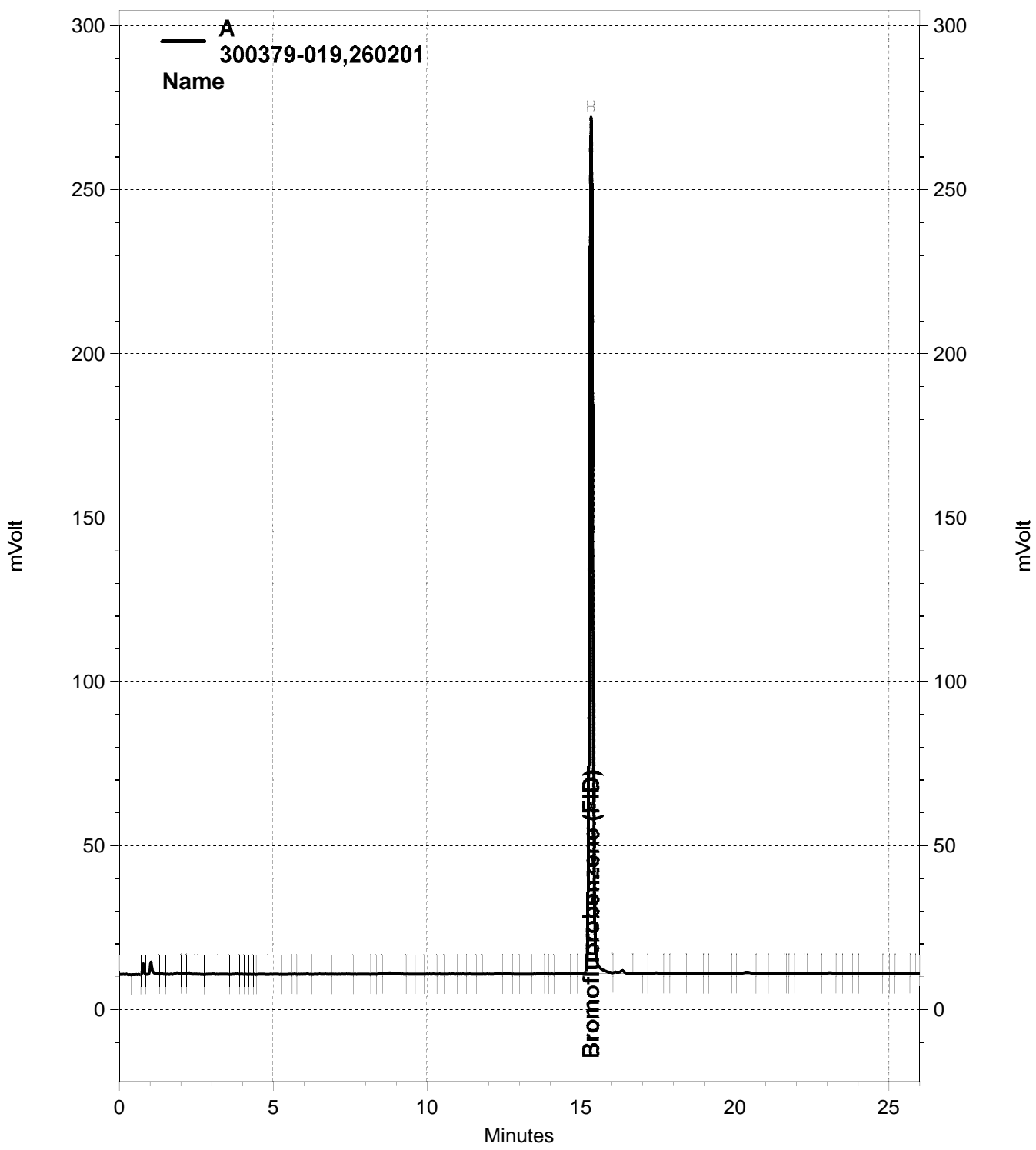


— \\Lims\gdrive\ezchrom\Projects\GC07\Data\156-021, A

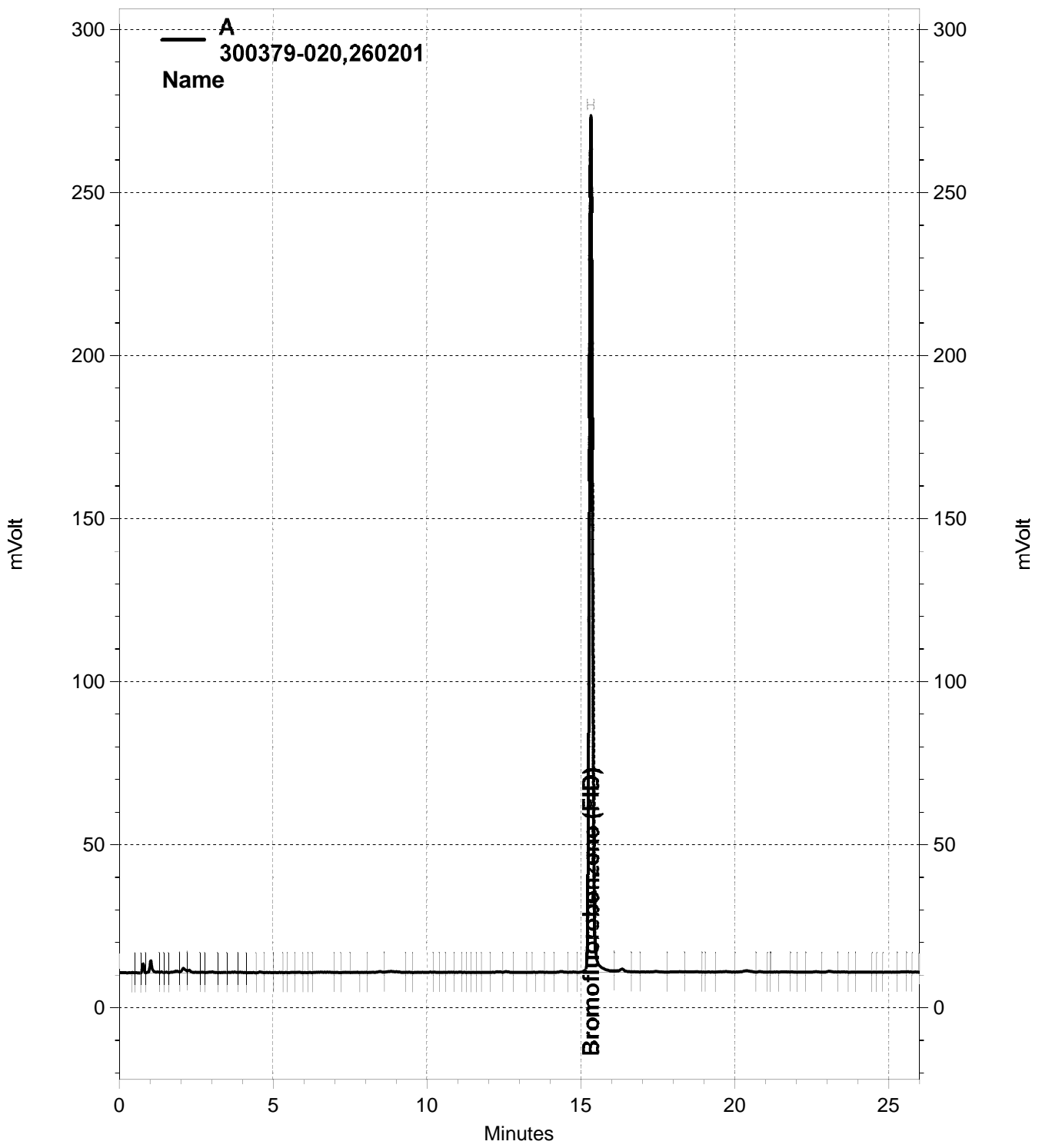


A
300379-018,260201
Name

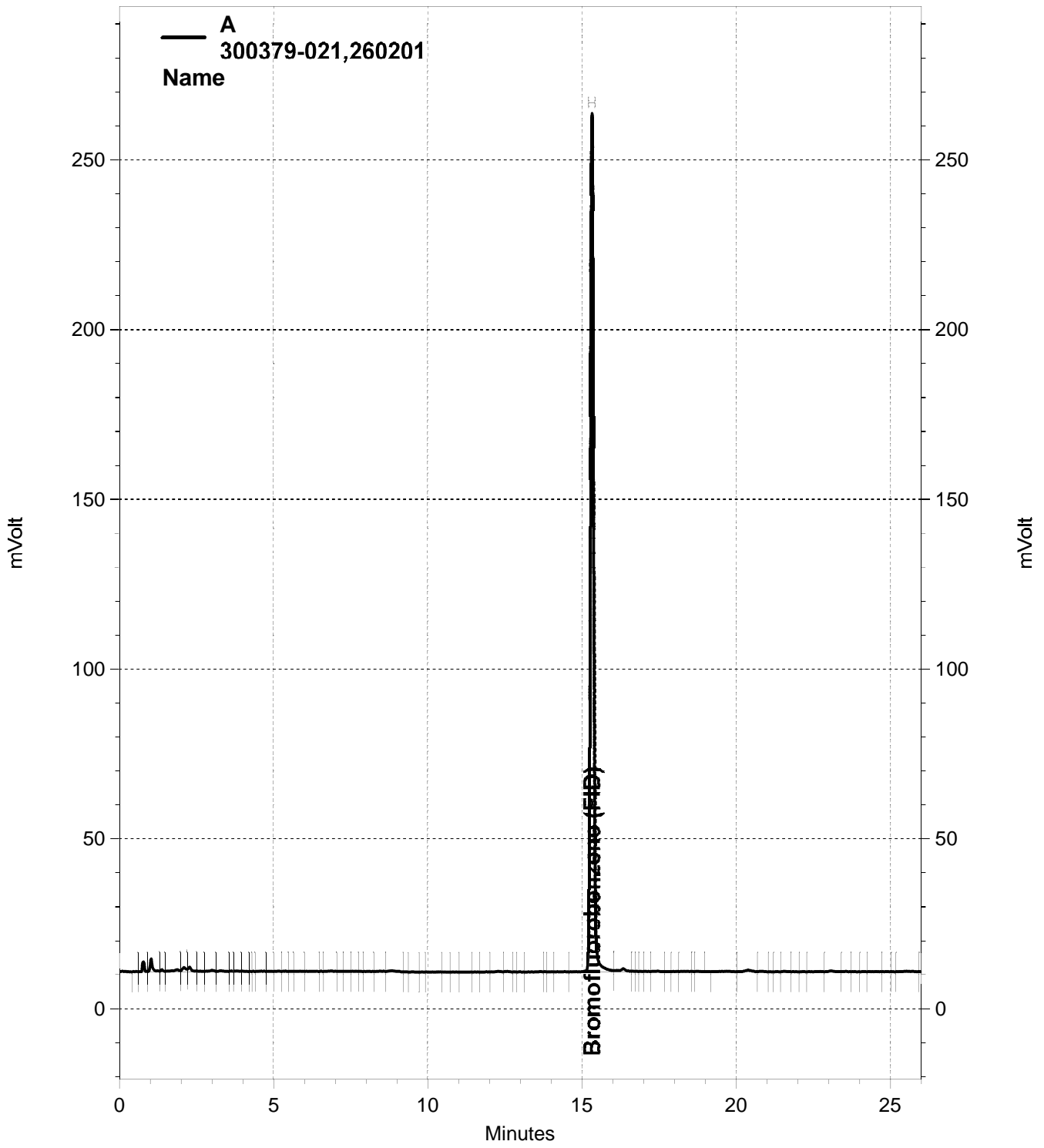
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\156-022, A



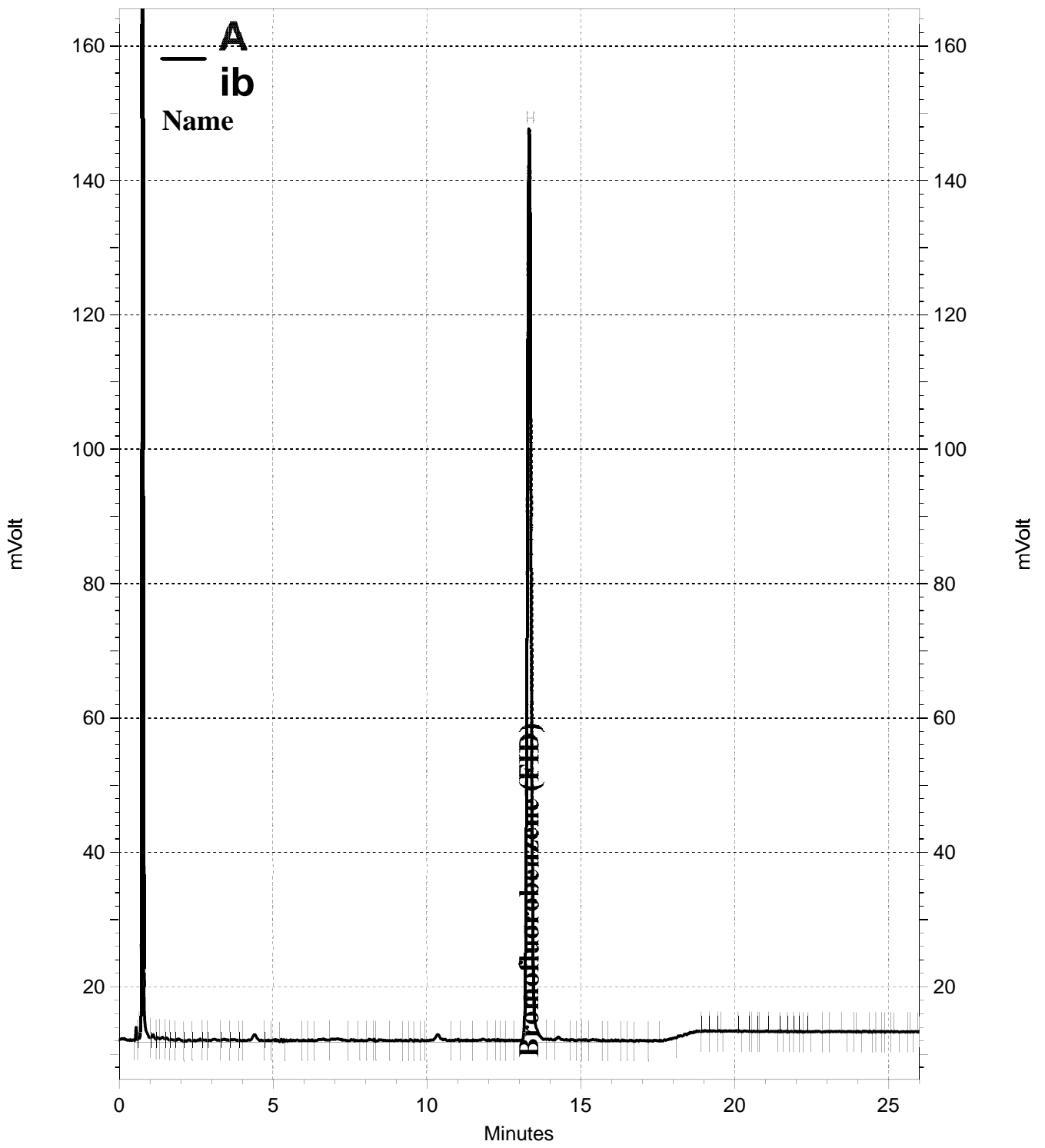
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\156-023, A



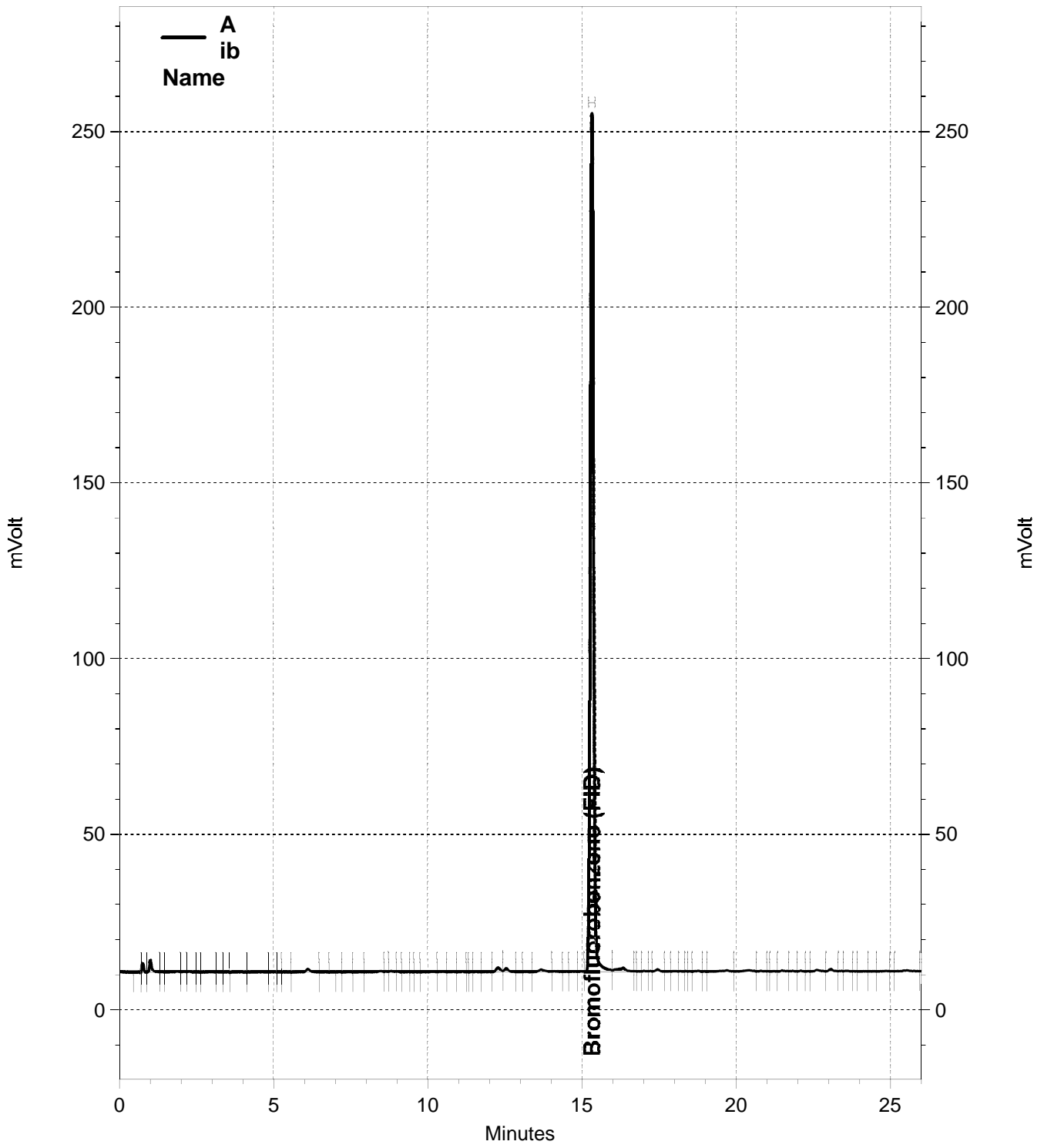
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\156-024, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\156-025, A



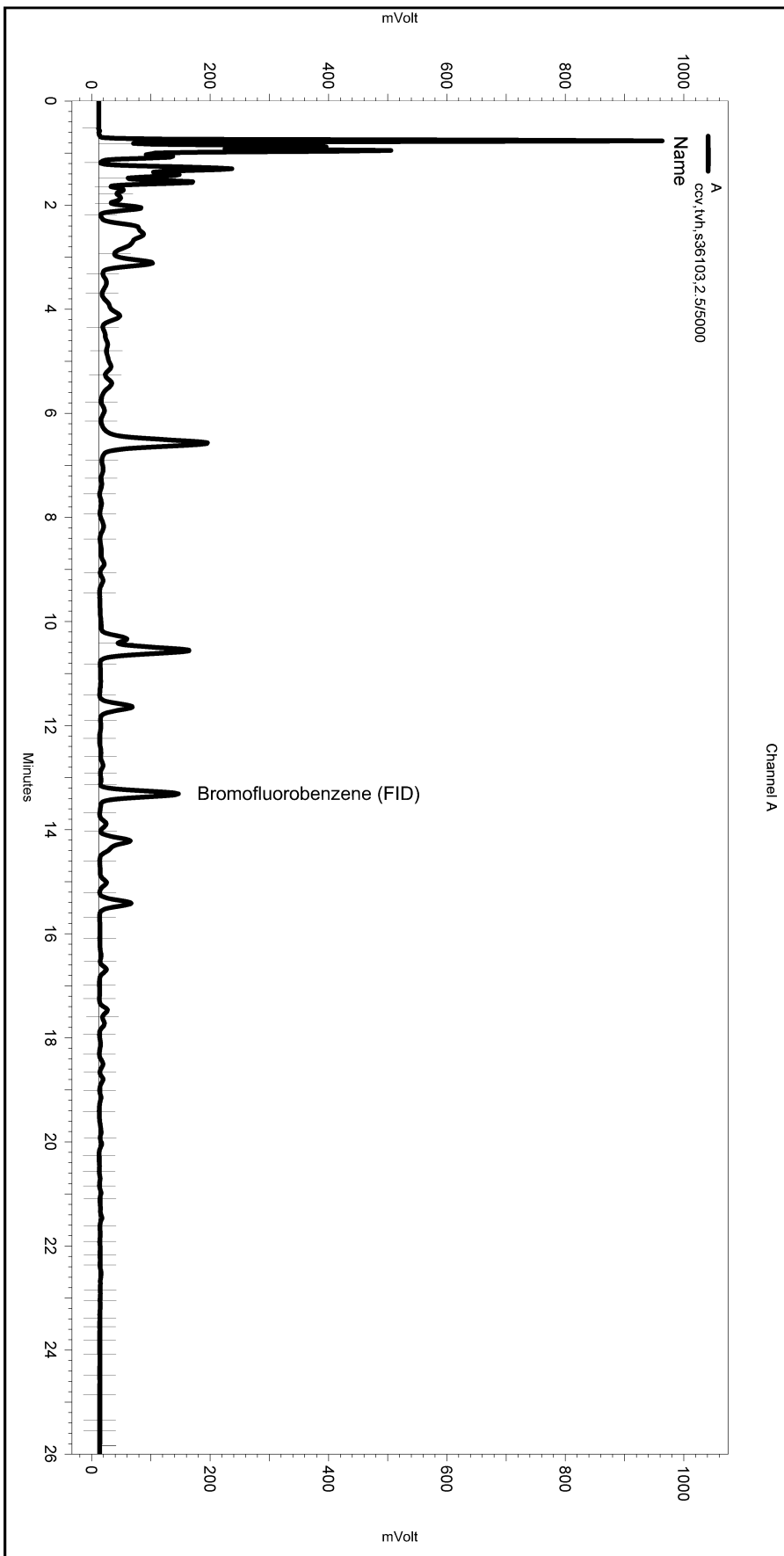
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\156-005, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\156-006, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2018\156.seq
 Sample Name: ccv,tvh,s36103,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data2018\156-002
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 6/5/2018 9:34:45 AM
 Analysis Date: 6/5/2018 10:03:30 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Lowest Point Horizontal Baseline	0	26.017	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\156-002_CDFC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 300379 GCVOA Soil: EPA 8015B

Inst : GC05
 Calnum : 318176372002
 Units : ng

Name : TVH_122
 Date : 02-MAY-2018 12:09
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_002	318176372002	TVH_14	02-MAY-2018 12:09	S36893 (1000X), S36233 (5000X)
L2	122_003	318176372003	TVH_15	02-MAY-2018 12:47	S36892 (1000X), S36233 (5000X)
L3	122_004	318176372004	TVH_16	02-MAY-2018 13:25	S36891 (1000X), S36233 (5000X)
L4	122_005	318176372005	TVH_17	02-MAY-2018 14:02	S36890 (2000X), S36233 (5000X)
L5	122_006	318176372006	TVH_18	02-MAY-2018 14:40	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	2961.4	2506.0	2455.4	2423.4	2633.8	AVRG		3.85E-4		2596.0	8	0.995	20	
Bromofluorobenzene (FID)	A	1639.9	1598.1	1644.8	2044.9	2307.4	AVRG		5.41E-4		1847.0	17	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	14	2500.0	-3	10000	-5	25000	-7	50000	1
Bromofluorobenzene (FID)	A	900.00	-11	900.00	-13	900.00	-11	900.00	11	900.00	25

CJN 05/02/18 : Corrected baseline noise or negative peak in TVH_14 (122_002).

Analyst: CJN

Date: 05/02/18

Reviewer: EAH

Date: 05/03/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC05
Calnum : 318176372002

Name : TVH_122
Cal Date : 02-MAY-2018

ICV 318176372008 (122_008 02-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8824	ng	-12	15	

Analyst: CJN

Date: 05/02/18

Reviewer: EAH

Date: 05/03/18

ENTHALPY INITIAL CALIBRATION FOR 300379 GCVOA Soil: EPA 8015B

Inst : GC07
 Calnum : 328184879001
 Units : ng

Name : TVH_129
 Date : 08-MAY-2018 21:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	128_017	328184879017	TVH_14	08-MAY-2018 21:46	S36893 (1000X), S36233 (5000X)
L2	128_018	328184879018	TVH_15	08-MAY-2018 22:25	S36892 (1000X), S36233 (5000X)
L3	128_019	328184879019	TVH_16	08-MAY-2018 23:03	S36891 (1000X), S36233 (5000X)
L4	128_020	328184879020	TVH_17	08-MAY-2018 23:42	S36890 (2000X), S36233 (5000X)
L5	128_021	328184879021	TVH_18	09-MAY-2018 00:20	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2551.5	2151.4	1868.7	2079.4	2113.6	AVRG		4.64E-4		2152.9	12	0.995	20	
Bromofluorobenzene (FID)	A	2209.5	2170.3	2197.1	2287.3	2435.2	AVRG		4.43E-4		2259.9	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	19	2500.0	0	10000	-13	25000	-3	50000	-2
Bromofluorobenzene (FID)	A	900.00	-2	900.00	-4	900.00	-3	900.00	1	900.00	8

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC07
Calnum : 328184879001

Name : TVH_129
Cal Date : 08-MAY-2018

ICV 328184879024 (128_024 09-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8973	ng	-10	15	

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318225177002 File : 156_002 Time : 05-JUN-2018 09:34
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36103 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2341.5	5000	4510	ng	-10	15	
Bromofluorobenzene (FID)	A	1847.0	1307.4	900.0	637.0	ng	-29	15	c-

JM2 06/13/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: JM2 Date: 06/06/18 Reviewer: EAH Date: 06/13/18

--low bias c=CCV

ENTHALPY SPIKE USER REPORT FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC934678 IDF : 1.0
 Seqnum : 318225177004.2 File : 156_004 Time : 05-JUN-2018 10:50
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36103 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2596.0	2795.4	5000	5384	ng	8	15	u
Bromofluorobenzene (FID)	A	1847.0	1711.8	900.0	834.1	ng	-7	15	u

Analyst: JM2 Date: 06/06/18 Reviewer: EAH Date: 06/13/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318225177014 File : 156_014 Time : 05-JUN-2018 19:52
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2539.4	10000	9782	ng	-2	15	
Bromofluorobenzene (FID)	A	1847.0	2133.0	900.0	1039	ng	15	15	

Analyst: CJN Date: 06/06/18 Reviewer: EAH Date: 06/06/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318225177026 File : 156_026 Time : 06-JUN-2018 03:23
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2734.8	15000	15800	ng	5	15	
Bromofluorobenzene (FID)	A	1847.0	2076.1	900.0	1012	ng	12	15	

Analyst: CJN Date: 06/06/18 Reviewer: EAH Date: 06/06/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318225177032 File : 156_032 Time : 06-JUN-2018 07:09
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2596.0	10000	10000	ng	0	15	
Bromofluorobenzene (FID)	A	1847.0	1890.5	900.0	921.2	ng	2	15	

Analyst: CJN Date: 06/06/18 Reviewer: EAH Date: 06/06/18

ENTHALPY SPIKE USER REPORT FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC934692 IDF : 1.0
 Seqnum : 328225176002.2 File : 156_002 Time : 05-JUN-2018 09:35
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36103 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2437.8	5000	5662	ng	13	15	
Bromofluorobenzene (FID)	A	2259.9	2086.9	900.0	831.1	ng	-8	15	

Analyst: JM2 Date: 06/06/18 Reviewer: _____ Date: _____

ENTHALPY SPIKE USER REPORT FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC934692 IDF : 1.0
 Seqnum : 328225176002.4 File : 156_002 Time : 05-JUN-2018 09:35
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36103 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2437.8	5000	5662	ng	13	15	u
Bromofluorobenzene (FID)	A	2259.9	2086.9	900.0	831.1	ng	-8	15	u

Analyst: JM2 Date: 06/06/18 Reviewer: EAH Date: 06/13/18

u=use

ENTHALPY SPIKE USER REPORT FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC934660 IDF : 1.0
 Seqnum : 328225176004.2 File : 156_004 Time : 05-JUN-2018 10:51
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36103 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2379.4	5000	5526	ng	11	15	u
Bromofluorobenzene (FID)	A	2259.9	2087.0	900.0	831.2	ng	-8	15	u

Analyst: JM2 Date: 06/06/18 Reviewer: EAH Date: 06/13/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328225176019 File : 156_019 Time : 05-JUN-2018 22:32
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2087.3	10000	9695	ng	-3	15	
Bromofluorobenzene (FID)	A	2259.9	2170.1	900.0	864.3	ng	-4	15	

Analyst: CJN Date: 06/06/18 Reviewer: EAH Date: 06/06/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328225176030 File : 156_030 Time : 06-JUN-2018 05:32
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	1996.8	15000	13910	ng	-7	15	
Bromofluorobenzene (FID)	A	2259.9	2206.4	900.0	878.7	ng	-2	15	

Analyst: CJN Date: 06/06/18 Reviewer: EAH Date: 06/06/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318176372

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 05/02/18 11:32
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	122_001	ICAL	CALIB			05/02/18 11:32	1.0	1
002	122_002	ICAL	TVH_14			05/02/18 12:09	1.0	2 1
003	122_003	ICAL	TVH_15			05/02/18 12:47	1.0	3 1
004	122_004	ICAL	TVH_16			05/02/18 13:25	1.0	4 1
005	122_005	ICAL	TVH_17			05/02/18 14:02	1.0	5 1
006	122_006	ICAL	TVH_18			05/02/18 14:40	1.0	5 1
007	122_007	IB				05/02/18 15:17	1.0	1
008	122_008	ICV	TVH			05/02/18 15:55	1.0	6 1
009	122_009	X	ICV			05/02/18 16:33	1.0	6 1
010	122_010	CMARKER	CMARKER			05/02/18 17:10	1.0	7 1

Reviewed by: _____ Date: _____

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S35319

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318225177

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 06/05/18 08:57
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std	Used
001	156_001	X	CMARKER			06/05/18 08:57	1.0	1	2
002	156_002	CCV	TVH			06/05/18 09:34	1.0	3	2
003	156_003	CCV	AVGAS			06/05/18 10:12	1.0	4	2
004	156_004	CCV/LCS	QC934678	Soil	260199	06/05/18 10:50	1.0	3	2
005	156_005	BLANK	QC934681	Soil	260199	06/05/18 11:27	1.0		2
006	156_006	SAMPLE	300379-001	Soil	260199	06/05/18 14:51	1.0		2
007	156_007	SAMPLE	300379-002	Soil	260199	06/05/18 15:29	1.0		2
008	156_008	SAMPLE	300379-003	Soil	260199	06/05/18 16:06	1.0		2
009	156_009	SAMPLE	300373-004	Soil	260199	06/05/18 16:44	1.0		2
010	156_010	SAMPLE	300373-009	Soil	260199	06/05/18 17:22	1.0		2
011	156_011	SAMPLE	300373-013	Soil	260199	06/05/18 17:59	1.0		2
012	156_012	SAMPLE	300373-018	Soil	260199	06/05/18 18:37	1.0		2
013	156_013	MSS	300373-021	Soil	260199	06/05/18 19:15	1.0		2
014	156_014	CCV	TVH			06/05/18 19:52	1.0	5	2
015	156_015	X	CMARKER			06/05/18 20:30	1.0	1	2
016	156_016	SAMPLE	300379-004	Soil	260199	06/05/18 21:07	1.0		2
017	156_017	SAMPLE	300379-005	Soil	260199	06/05/18 21:45	1.0		2
018	156_018	SAMPLE	300379-006	Soil	260199	06/05/18 22:23	1.0		2
019	156_019	SAMPLE	300379-007	Soil	260199	06/05/18 23:00	1.0		2
020	156_020	SAMPLE	300379-008	Soil	260199	06/05/18 23:38	1.0		2
021	156_021	SAMPLE	300379-009	Soil	260199	06/06/18 00:15	1.0		2
022	156_022	SAMPLE	300379-010	Soil	260199	06/06/18 00:53	1.0		2
023	156_023	SAMPLE	300379-011	Soil	260199	06/06/18 01:31	1.0		2
024	156_024	SAMPLE	300379-012	Soil	260199	06/06/18 02:08	1.0		2
025	156_025	SAMPLE	300379-013	Soil	260199	06/06/18 02:46	1.0		2
026	156_026	CCV	TVH			06/06/18 03:23	1.0	5	2
027	156_027	X	CMARKER			06/06/18 04:01	1.0	1	2
028	156_028	SAMPLE	300379-014	Soil	260199	06/06/18 04:38	1.0		2
029	156_029	SAMPLE	300379-015	Soil	260199	06/06/18 05:16	1.0		2
030	156_030	MS	QC934679	Soil	260199	06/06/18 05:54	1.0	5	2
031	156_031	MSD	QC934680	Soil	260199	06/06/18 06:31	1.0	5	2
032	156_032	CCV	TVH			06/06/18 07:09	1.0	5	2
033	156_033	X	CMARKER			06/06/18 07:46	1.0	1	2

CJN 06/06/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 33.

Reviewed by: CJN Date: 06/06/18

Standards used: 1=S36859 2=S37192 3=S36103 4=S36676 5=S36848

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328184879

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/08/18 09:19
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	128_001	X	CMARKER			05/08/18 09:19	1.0	1 2	
002	128_002	CCV	TVH			05/08/18 09:58	1.0	3 2	
003	128_003	CCV/LCS	QC931207	Water	259308	05/08/18 10:36	1.0	4 2	
004	128_004	CCV	TVH			05/08/18 11:15	1.0	3 2	
005	128_005	CCV	BTXE			05/08/18 11:53	1.0	4 2	
006	128_006	BLANK	QC931206	Water	259308	05/08/18 12:31	1.0	2	
007	128_007	MSS	299300-001	Water	259308	05/08/18 15:18	1.0	2	headspace > 1 mL
008	128_008	CCV	BTXE			05/08/18 15:57	1.0	4 2	
011	128_011	IB				05/08/18 17:57	1.0	2	
012	128_012	IB				05/08/18 18:35	1.0	2	
013	128_013	IB				05/08/18 19:13	1.0	2	
014	128_014	IB				05/08/18 19:51	1.0	2	
015	128_015	IB				05/08/18 20:30	1.0	2	
016	128_016	IB	CALIB			05/08/18 21:08	1.0	2	
017	128_017	ICAL	TVH_14			05/08/18 21:46	1.0	5 2	
018	128_018	ICAL	TVH_15			05/08/18 22:25	1.0	6 2	
019	128_019	ICAL	TVH_16			05/08/18 23:03	1.0	7 2	
020	128_020	ICAL	TVH_17			05/08/18 23:42	1.0	8 2	
021	128_021	ICAL	TVH_18			05/09/18 00:20	1.0	8 2	
022	128_022	IB				05/09/18 00:58	1.0	2	
023	128_023	X	ICV			05/09/18 01:37	1.0	9 2	
024	128_024	ICV	TVH			05/09/18 02:15	1.0	9 2	
025	128_025	CMARKER				05/09/18 02:54	1.0	1 2	

Reviewed by: _____ Date: _____

Standards used: 1=S35319 2=S36233 3=S36103 4=S36185 5=S36893 6=S36892 7=S36891 8=S36890 9=S36894

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328225176

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 06/05/18 08:56
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	156_001	X	CMARKER			06/05/18 08:56	1.0	1 2
002	156_002	CCV/BS	QC934692	Soil	260201	06/05/18 09:35	1.0	3 4
003	156_003	CCV/BS	QC934661	Water	260193	06/05/18 10:13	1.0	5 4
004	156_004	CCV/LCS	QC934660	Water	260193	06/05/18 10:51	1.0	3 4
005	156_005	BSD	QC934662	Water	260193	06/05/18 11:30	1.0	5 4
006	156_006	BLANK	QC934691	Soil	260201	06/05/18 12:08	1.0	4
007	156_007	BLANK	QC934659	Water	260193	06/05/18 14:41	1.0	4
008	156_008	PREPBLK	QC934665	Water	260193	06/05/18 15:32	1.0	4
009	156_009	MSS	300370-001	Water	260193	06/05/18 16:10	1.0	4
010	156_010	SAMPLE	300379-022	Water	260193	06/05/18 16:48	1.0	4
011	156_011	SAMPLE	300379-023	Water	260193	06/05/18 17:26	1.0	4
012	156_012	SAMPLE	300124-001	Water	260193	06/05/18 18:04	1.0	4
013	156_013	IB				06/05/18 18:43	1.0	4
014	156_014	MS	QC934663	Water	260193	06/05/18 19:21	1.0	6 4
015	156_015	MSD	QC934664	Water	260193	06/05/18 19:59	1.0	6 4
016	156_016	BSD	QC934693	Soil	260201	06/05/18 20:37	1.0	6 4
017	156_017	X	CMARKER			06/05/18 21:15	1.0	1 4
018	156_018	CCV	BTXE			06/05/18 21:54	1.0	5 4
019	156_019	CCV	TVH			06/05/18 22:32	1.0	6 4
020	156_020	SAMPLE	300379-016	Soil	260201	06/05/18 23:10	1.0	4
021	156_021	SAMPLE	300379-017	Soil	260201	06/05/18 23:49	1.0	4
022	156_022	SAMPLE	300379-018	Soil	260201	06/06/18 00:27	1.0	4
023	156_023	SAMPLE	300379-019	Soil	260201	06/06/18 01:05	1.0	4
024	156_024	SAMPLE	300379-020	Soil	260201	06/06/18 01:43	1.0	4
025	156_025	SAMPLE	300379-021	Soil	260201	06/06/18 02:21	1.0	4
026	156_026	SAMPLE	300394-020	Water	260193	06/06/18 02:59	50.0	4
027	156_027	SAMPLE	300394-021	Water	260193	06/06/18 03:37	1.0	4
028	156_028	SAMPLE	300394-022	Water	260193	06/06/18 04:16	5.0	4
029	156_029	SAMPLE	300394-023	Water	260193	06/06/18 04:54	1.0	4
030	156_030	CCV	TVH			06/06/18 05:32	1.0	6 4
031	156_031	X	CMARKER			06/06/18 06:10	1.0	1 4
032	156_032	SAMPLE	300394-024	Water	260193	06/06/18 06:49	1.0	4
033	156_033	SAMPLE	300394-025	Water	260193	06/06/18 07:27	1.0	4
034	156_034	CCV	TVH			06/06/18 08:05	1.0	6 4
035	156_035	X	CMARKER			06/06/18 08:43	1.0	1 4

CJN 06/06/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 35.

Reviewed by: CJN Date: 06/06/18

Standards used: 1=S36859 2=S36233 3=S36103 4=S37192 5=S36185 6=S36848

TITLE PROJECT DATE

Sample	ID	Weight (g)	NaHSO ₄	Comments: Initials	Anal. ID
300257-2	A	MeOH 200/5000	No	JMZ 6/1/18	B-6
-3					
-4					
-5					
-6					
300252-1	MS	0.97			
-1	MSD	0.93			
300260-1	MS	1.04			
-1	MSD	0.91			
300276-1	A	0.97	No	JMZ 6/7/18	B-6
-2		0.99			
-3		0.90			
-4		0.97			
-5		1.05			
-6		0.91			
-7		0.91			
-8		0.95			
-9		0.91			
-10		1.00			
-11		1.04			
-12		0.91			
-1	MS	0.97			
-1	MSD	0.91			
300369-1		1.09			
300373-4	A	1.06	No	JMZ 6/5/18 ^{copy of 373-(1-3)}	B-6
-9		0.95		copy of 373-(5-8)	
-13		0.97		-(10-12)	
-18		1.10		-(14-17)	
-21		0.91		-(19,20)	
-21	MS	1.07			
-21	MSD	0.96			
300379-1		36.38 - 30.589 - 0.2 = 5.59			
-2		37.17 - 30.560 - 0.2 = 6.41			
-3		38.22 - 30.580 - 0.2 = 7.44			
-4		38.06 - 30.864 - 0.2 = 7.00			
-5		38.45 - 30.731 - 0.2 = 7.52			
-6		36.12 - 30.570 - 0.2 = 5.35			
-7		37.34 - 30.461 - 0.2 = 6.68			
-8		35.24 - 30.727 - 0.2 = 4.41			
-9		37.89 - 30.559 - 0.2 = 7.13			
-10		37.21 - 30.627 - 0.2 = 6.38			
-11		37.51 - 30.739 - 0.2 = 6.57			
-12		35.66 - 30.429 - 0.2 = 5.03			

SIGNATURE

DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE PROJECT DATE

Continued from page	Sample	ID	Weight (g)	NaHSO ₃	Comments: Initials	Bal. ID
	300257-2	A	MeOH 200/5000	No	JMZ 6/1/18	B-6
5	-3					
	-4					
	-5					
	-6					
	300252-1	MS	0.97			
	-1	MSD	0.93			
10	300260-1	MS	1.04			
	-1	MSD	0.91			
	300276-1	A	0.97	No	JMZ 6/7/18	B-6
	-2		0.99			
	-3		0.90			
15	-4		0.97			
	-5		1.05			
	-6		0.91			
	-7		0.91			
	-8		0.95			
20	-9		0.91			
	-10		1.00			
	-11		1.04			
	-12		0.91			
	-1	MS	0.97			
25	-1	MSD	0.91			
	300369-1		1.09			
	300373-4	A	1.06	No	JMZ 6/5/18 ^{comp of 373-11-3}	B-6
	-9		0.95		comp of 373-15-8	
	-13		0.97		- (10-12)	
30	-18		1.10		- (14-17)	
	-21		0.91		- (19, 20)	
	-21	MS	1.07			
	-21	MSD	0.96			
35	300379-1		36.38 - 30,589 - 0.2 = 5.59			
	-2		37.17 - 30,560 - 0.2 = 6.41			
	-3		38.22 - 30,580 - 0.2 = 7.44			
	-4		38.06 - 30,864 - 0.2 = 7.00			
	-5		38.45 - 30,731 - 0.2 = 7.52			
	-6		36.32 - 30,570 - 0.2 = 5.35			
40	-7		37.34 - 30,461 - 0.2 = 6.68			
	-8		35.34 - 30,727 - 0.2 = 4.41			
	-9		37.89 - 30,559 - 0.2 = 7.13			
	-10		37.21 - 30,627 - 0.2 = 6.38			
	-11		37.51 - 30,739 - 0.2 = 6.57			
45	-12		35.66 - 30,429 - 0.2 = 5.03			

SIGNATURE

DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

Laboratory Job Number 300379

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Water

Total Extractable Hydrocarbons			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	BR11-1SB012[W]	Sampled:	06/04/18
Matrix:	Water	Received:	06/05/18
Units:	ug/L	Prepared:	06/11/18
Diln Fac:	1.000	Analyzed:	06/12/18
Batch#:	260379		

Type: SAMPLE Lab ID: 300379-022

Analyte	Result	RL	MDL
Diesel C10-C24	140 Y	50	16
Motor Oil C24-C36	110 J	300	96
Bunker C C12-C40	500 Y	300	

Surrogate	%REC	Limits
o-Terphenyl	90	58-123

Type: BLANK Lab ID: QC935403

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96
Bunker C C12-C40	ND	300	

Surrogate	%REC	Limits
o-Terphenyl	96	58-123

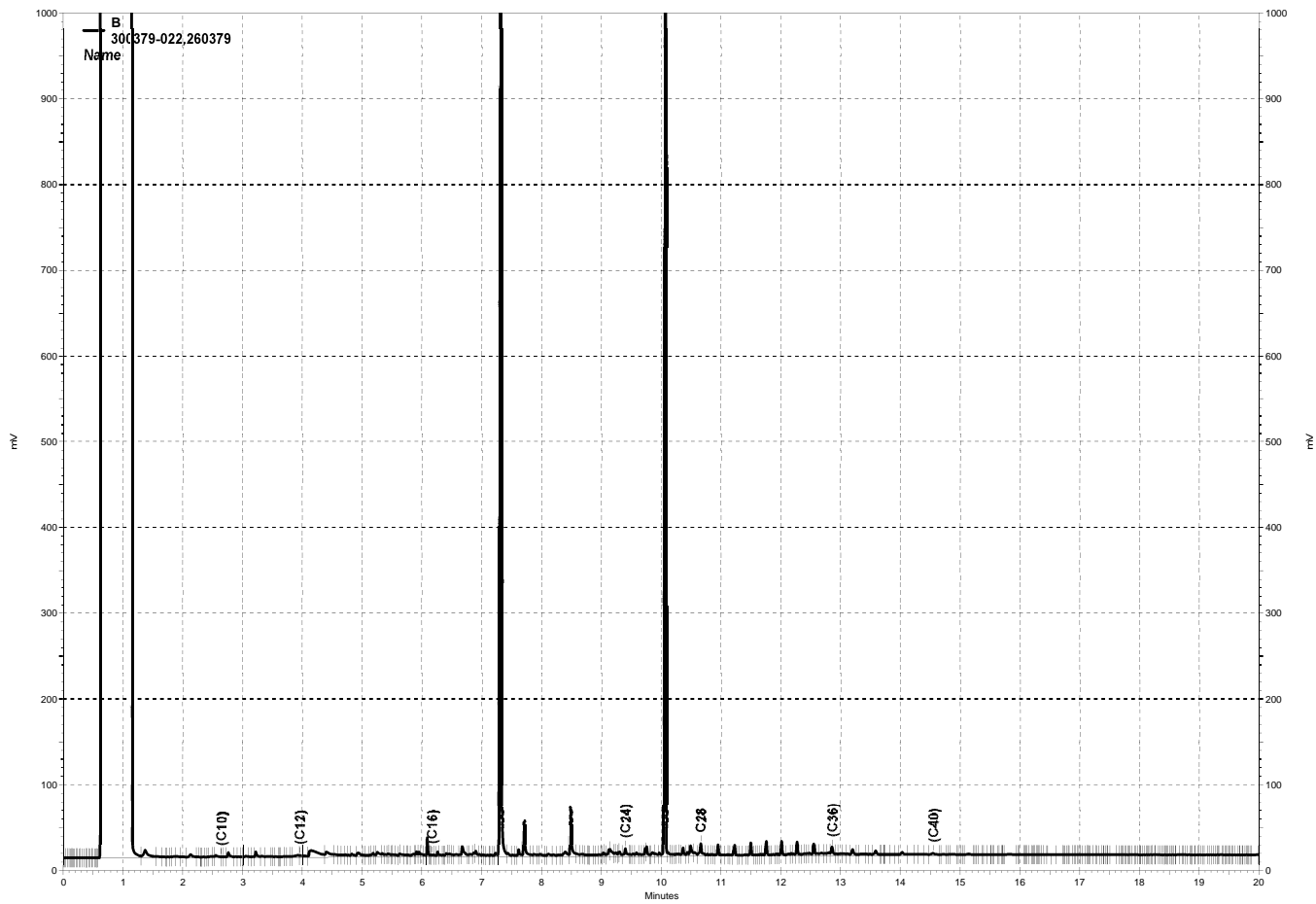
J= Estimated value

Y= Sample exhibits chromatographic pattern which does not resemble standard

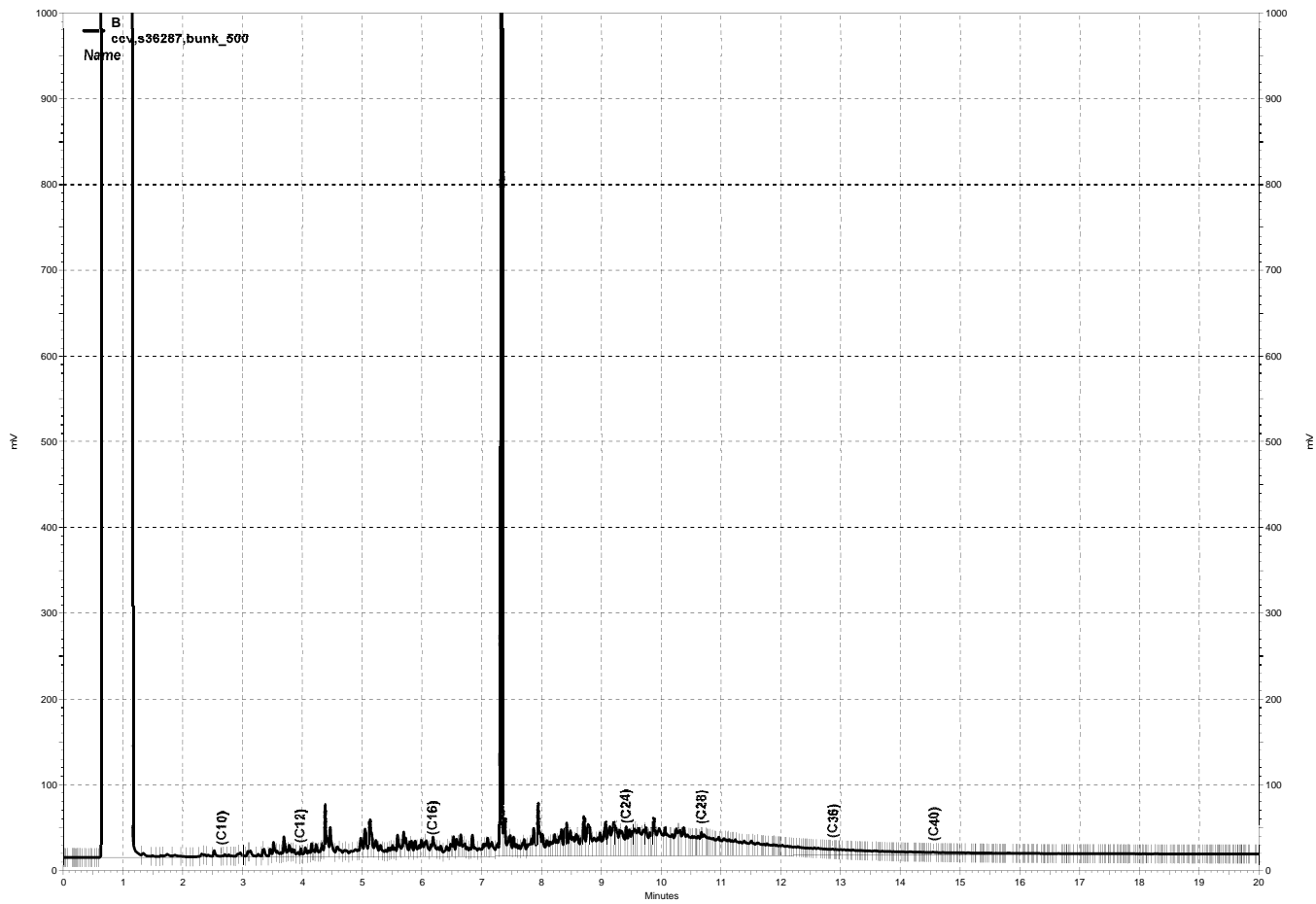
ND= Not Detected

RL= Reporting Limit

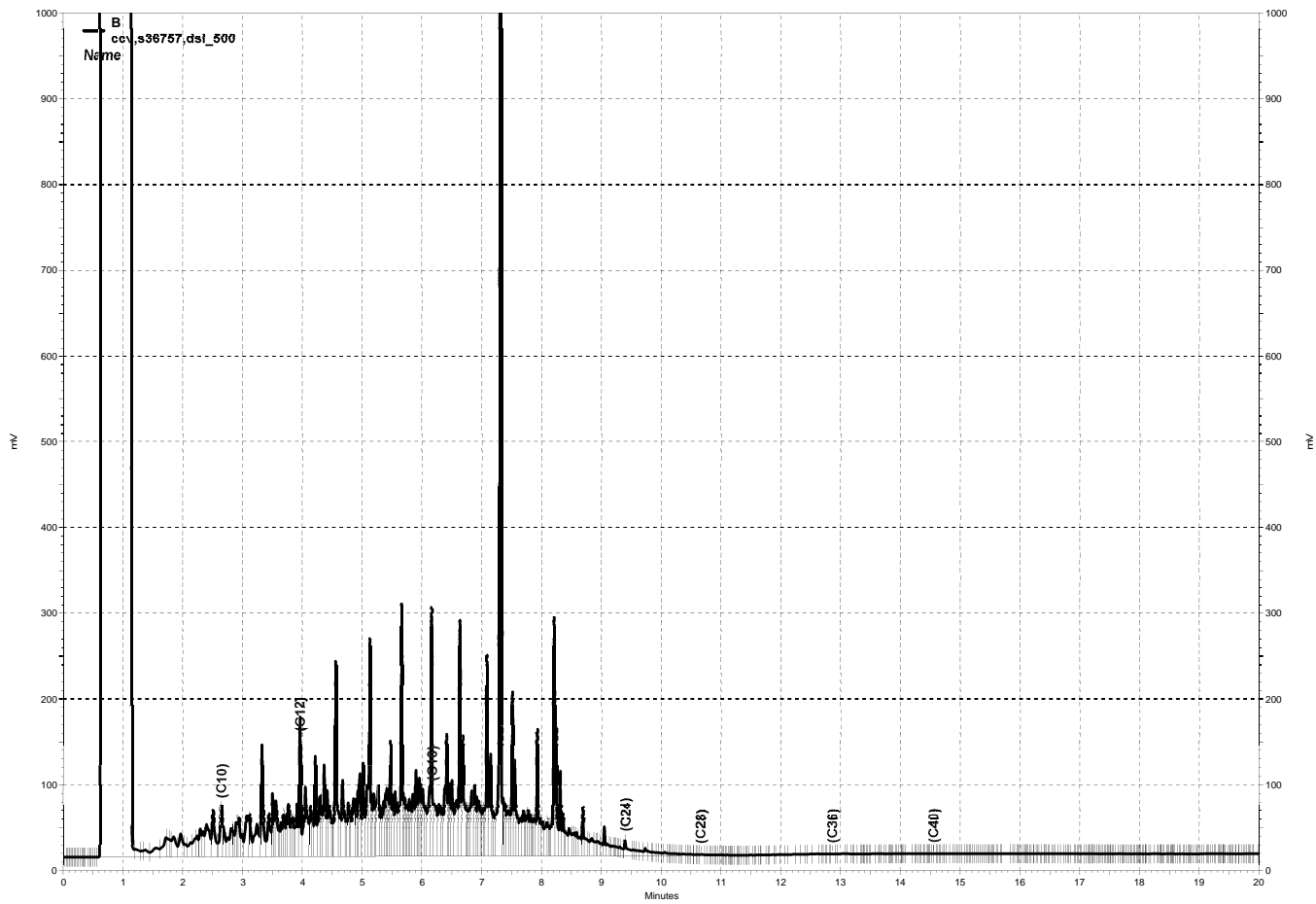
MDL= Method Detection Limit



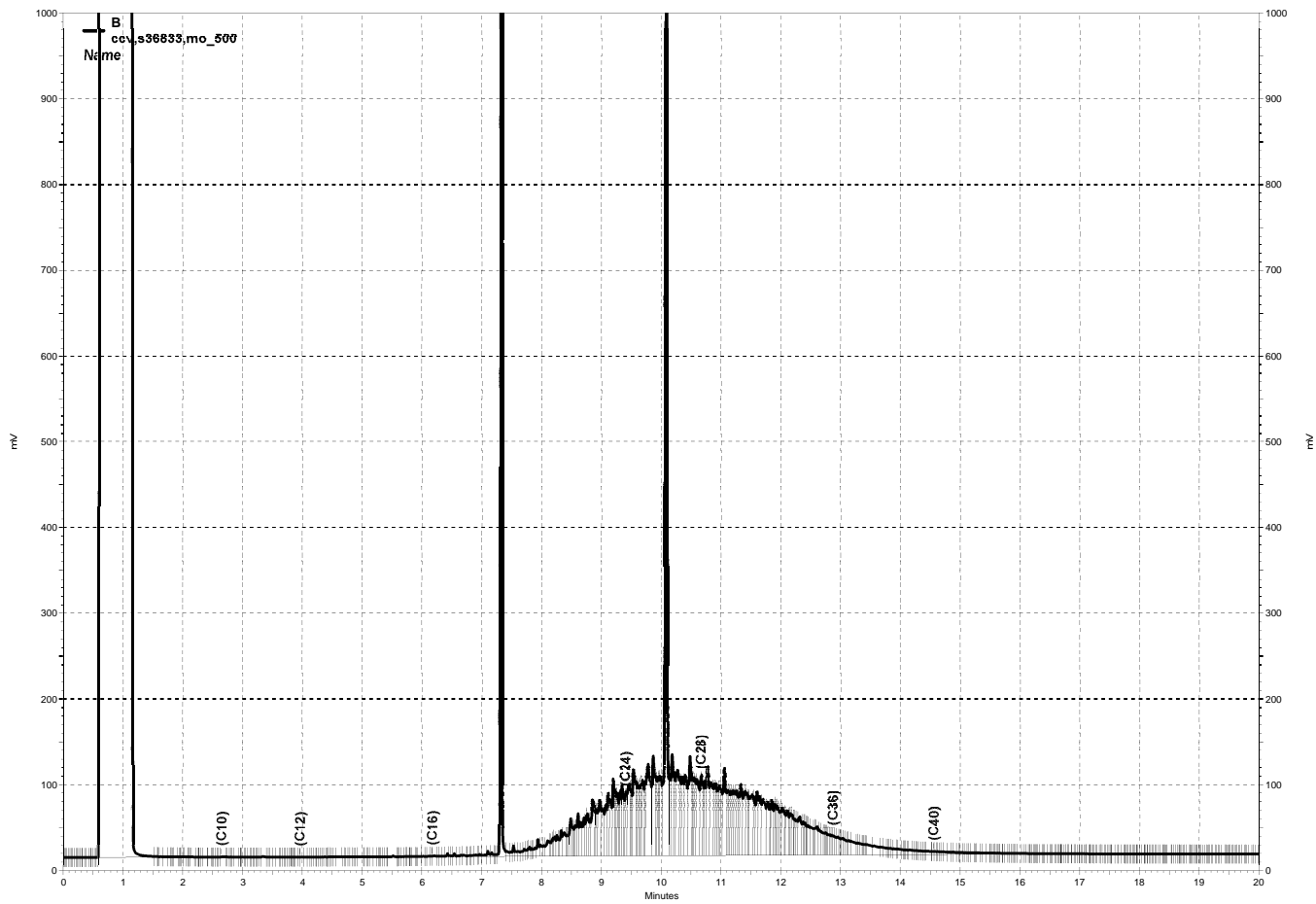
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\163b010, B



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\163b005, B



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\163b003, B



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\163b004, B

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 300379 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228112705001
 Units : mg/L

Name : BUNK_078 5 pt
 Date : 19-MAR-2018 18:08
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	078_015	228112705015	BUNK_50	19-MAR-2018 18:08	S35500
L2	078_016	228112705016	BUNK_250	19-MAR-2018 18:37	S35501
L3	078_017	228112705017	BUNK_500	19-MAR-2018 19:06	S35502
L4	078_018	228112705018	BUNK_1250	19-MAR-2018 19:35	S35503
L5	078_019	228112705019	BUNK_2500	19-MAR-2018 20:04	S35504
L6	078_020	228112705020	BUNK_5000	19-MAR-2018 20:34	S35499

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Bunker C C12-C40	B	16353	20860	21971	17514	21271	21612	AVRG		5.02E-5		19930	12	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Bunker C C12-C40	B	50.000	-18	250.00	5	500.00	10	1250.0	-12	2500.0	7	5000.0	8

WA1 03/20/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 03/20/18

Reviewer: EAH

Date: 03/20/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300379 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228163090001
 Units : mg/L

Name : HEXOTP_113
 Date : 24-APR-2018 17:47
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_058	228163090058	HEX OTP_5	24-APR-2018 17:47	S36499
L2	113_059	228163090059	HEX OTP_10	24-APR-2018 18:15	S36500
L3	113_060	228163090060	HEX OTP_25	24-APR-2018 18:43	S36501
L4	113_061	228163090061	HEX OTP_50	24-APR-2018 19:10	S36502
L5	113_062	228163090062	HEX OTP_100	24-APR-2018 19:38	S36503
L6	113_063	228163090063	HEX OTP_200	24-APR-2018 20:06	S36504

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	53564	53868	53293	52451	51731	53994	AVRG		1.88E-5		53150	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	5.0000	1	10.000	1	25.000	0	50.000	-1	100.00	-3	200.00	2

CB1 04/25/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300379 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300379 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

ENTHALPY INITIAL CALIBRATION FOR 300379 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228235022003 File : 163_003 Time : 12-JUN-2018 05:59
 Standards: S36757

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	42456	500.0	471.7	mg/L	-6	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	52656	50.00	49.54	mg/L	-1	15	

CB1 06/12/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228235022004 File : 163_004 Time : 12-JUN-2018 06:27
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	29065	500.0	489.1	mg/L	-2	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	50306	50.00	47.32	mg/L	-5	15	

CB1 06/12/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228235022012 File : 163_012 Time : 12-JUN-2018 13:33
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	40499	1000	900.0	mg/L	-10	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	51100	50.00	48.07	mg/L	-4	15	

WA1 06/12/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228235022013 File : 163_013 Time : 12-JUN-2018 14:02
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	27977	500.0	470.8	mg/L	-6	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	48614	50.00	45.73	mg/L	-9	15	

WA1 06/12/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 228235022014 File : 163_014 Time : 12-JUN-2018 14:30
 Standards: S36287

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	228112705001	19-MAR-2018	19930	16987	500.0	426.2	mg/L	-15	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	47660	50.00	44.84	mg/L	-10	15	

WA1 06/12/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/12/18 Reviewer: EAH Date: 06/12/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228112705

Instrument : GC14B
 Method : EPA 8015B

Begun : 03/19/18 06:25
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	078_001	IB				03/19/18 06:25	1.0	
002	078_002	IB				03/19/18 06:53	1.0	
003	078_003	X	CMARKER			03/19/18 07:21	1.0	1
004	078_004	CCV	DSL_500			03/19/18 07:50	1.0	2
005	078_005	CCV	MO_500			03/19/18 08:18	1.0	3
006	078_006	CCV	BUNK_500			03/19/18 08:47	1.0	4
007	078_007	IB				03/19/18 13:42	1.0	
008	078_008	X	CMARKER			03/19/18 14:11	1.0	1
009	078_009	XCCV	DSL_500			03/19/18 14:40	1.0	2
010	078_010	XCCV	MO_500			03/19/18 15:09	1.0	3
011	078_011	CCV	DSL_500			03/19/18 16:08	1.0	2
012	078_012	CCV	MO_500			03/19/18 16:37	1.0	3
013	078_013	IB				03/19/18 17:10	1.0	
014	078_014	IB	CALIB			03/19/18 17:39	1.0	
015	078_015	ICAL	BUNK_50			03/19/18 18:08	1.0	5
016	078_016	ICAL	BUNK_250			03/19/18 18:37	1.0	6
017	078_017	ICAL	BUNK_500			03/19/18 19:06	1.0	7
018	078_018	ICAL	BUNK_1250			03/19/18 19:35	1.0	8
019	078_019	ICAL	BUNK_2500			03/19/18 20:04	1.0	9
020	078_020	ICAL	BUNK_5000			03/19/18 20:34	1.0	10
021	078_021	IB	CALIB			03/19/18 21:03	1.0	
022	078_022	CMARKER	C8-C50			03/19/18 21:32	1.0	1
023	078_023	IB	CALIB			03/19/18 22:01	1.0	

CB1 03/19/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 7.

WA1 03/19/18 : X out CCV at position 9 and 10 due to lose glass connector.

WA1 03/20/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 8 through 23.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	113_001	IB					04/23/18 06:10	1.0	
002	113_002	IB					04/23/18 06:38	1.0	
003	113_003	X	CMARKER				04/23/18 07:06	1.0	1
004	113_004	CCV	DSL_500				04/23/18 07:34	1.0	2
005	113_005	CCV	MO_500				04/23/18 08:35	1.0	3
006	113_006	CCV	DSL_500				04/23/18 09:02	1.0	2
007	113_007	IB					04/23/18 12:40	1.0	
008	113_008	X	CMARKER				04/23/18 13:07	1.0	1
009	113_009	CCV	DSL_500				04/23/18 13:35	1.0	2
010	113_010	CCV	MO_500				04/23/18 14:03	1.0	3
012	113_012	IB					04/23/18 15:27	1.0	
013	113_013	SAMPLE	299115-001		Soil	258772	04/23/18 16:57	1.0	
014	113_014	SAMPLE	299115-002		Soil	258772	04/23/18 17:25	1.0	
015	113_015	SAMPLE	299115-003		Soil	258772	04/23/18 17:53	1.0	
016	113_016	SAMPLE	299115-004		Soil	258772	04/23/18 18:20	1.0	
017	113_017	SAMPLE	299056-001		Soil	258772	04/23/18 18:48	2.0	
018	113_018	IB					04/23/18 19:16	1.0	
019	113_019	SAMPLE	299117-001		Soil	258772	04/23/18 19:44	1.0	
020	113_020	SAMPLE	299117-002		Soil	258772	04/23/18 20:11	1.0	
021	113_021	MS	QC929007	S	Soil	258726	04/23/18 20:39	1.0	
022	113_022	MSD	QC929008	S	Soil	258726	04/23/18 21:07	1.0	
023	113_023	IB					04/23/18 21:35	1.0	
024	113_024	CCV	DSL_250				04/23/18 22:03	1.0	4
025	113_025	CCV	MO_500				04/23/18 22:31	1.0	3
026	113_026	X	CMARKER				04/23/18 22:59	1.0	1
027	113_027	BLANK	QC929171		Soil	258772	04/23/18 23:27	1.0	
028	113_028	LCS	QC929172		Soil	258772	04/23/18 23:55	1.0	
029	113_029	MSS	299056-002		Soil	258772	04/24/18 00:23	1.0	
030	113_030	MS	QC929173		Soil	258772	04/24/18 00:51	1.0	
031	113_031	MSD	QC929174		Soil	258772	04/24/18 01:19	1.0	
032	113_032	SAMPLE	299118-001		Soil	258772	04/24/18 01:47	1.0	
033	113_033	SAMPLE	299119-001		Soil	258772	04/24/18 02:14	1.0	
034	113_034	IB					04/24/18 02:42	1.0	
035	113_035	SAMPLE	299126-001		Soil	258772	04/24/18 03:10	1.0	
036	113_036	SAMPLE	299126-002		Soil	258772	04/24/18 03:38	1.0	
037	113_037	SAMPLE	299116-001		Soil	258772	04/24/18 04:06	1.0	
038	113_038	SAMPLE	299116-002		Soil	258772	04/24/18 04:34	1.0	
039	113_039	IB					04/24/18 05:02	1.0	
040	113_040	CCV	DSL_500				04/24/18 05:30	1.0	2
041	113_041	CCV	MO_500				04/24/18 05:58	1.0	3
042	113_042	X	CMARKER				04/24/18 06:26	1.0	1
043	113_043	SAMPLE	299056-005		Soil	258786	04/24/18 07:10	1.0	
044	113_044	SAMPLE	299056-006		Soil	258786	04/24/18 07:38	1.0	
045	113_045	SAMPLE	299055-001		Soil	258786	04/24/18 08:10	1.0	
046	113_046	SAMPLE	299055-002		Soil	258786	04/24/18 08:38	1.0	
047	113_047	SAMPLE	299055-004		Soil	258786	04/24/18 09:06	1.0	
048	113_048	SAMPLE	299055-005		Soil	258786	04/24/18 09:34	1.0	
049	113_049	SAMPLE	299055-006		Soil	258786	04/24/18 10:02	1.0	
050	113_050	SAMPLE	299055-007		Soil	258786	04/24/18 10:30	1.0	
051	113_051	CCV	DSL_1000				04/24/18 10:58	1.0	5
052	113_052	CCV	MO_500				04/24/18 11:26	1.0	3
053	113_053	X	CMARKER				04/24/18 11:54	1.0	1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B Begun : 04/23/18 06:10
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	113_054	CCV	DSL_1000				04/24/18 12:22	1.0	5
055	113_055	CCV	DSL_1000				04/24/18 12:50	1.0	5
056	113_056	IB					04/24/18 16:52	1.0	
057	113_057	IB	CALIB				04/24/18 17:20	1.0	
058	113_058	ICAL	HEX OTP_5				04/24/18 17:47	1.0	6
059	113_059	ICAL	HEX OTP_10				04/24/18 18:15	1.0	7
060	113_060	ICAL	HEX OTP_25				04/24/18 18:43	1.0	8
061	113_061	ICAL	HEX OTP_50				04/24/18 19:10	1.0	9
062	113_062	ICAL	HEX OTP_100				04/24/18 19:38	1.0	10
063	113_063	ICAL	HEX OTP_200				04/24/18 20:06	1.0	11
064	113_064	IB	CALIB				04/24/18 20:33	1.0	
065	113_065	ICAL	DSL_10				04/24/18 21:01	1.0	12
066	113_066	ICAL	DSL_100				04/24/18 21:29	1.0	13
067	113_067	ICAL	DSL_500				04/24/18 21:57	1.0	14
068	113_068	ICAL	DSL_1000				04/24/18 22:25	1.0	15
069	113_069	ICAL	DSL_5000				04/24/18 22:53	1.0	16
070	113_070	IB	CALIB				04/24/18 23:21	1.0	
071	113_071	ICV	DSL_500				04/24/18 23:49	1.0	17
072	113_072	IB	CALIB				04/25/18 00:17	1.0	
073	113_073	ICAL	MO_50				04/25/18 00:45	1.0	18
074	113_074	ICAL	MO_250				04/25/18 01:13	1.0	19
075	113_075	ICAL	MO_500				04/25/18 01:41	1.0	20
076	113_076	ICAL	MO_1000				04/25/18 02:09	1.0	21
077	113_077	ICAL	MO_2500				04/25/18 02:37	1.0	22
078	113_078	ICAL	MO_5000				04/25/18 03:05	1.0	22
079	113_079	IB	CALIB				04/25/18 03:33	1.0	
080	113_080	CMARKER	C8-C50				04/25/18 04:01	1.0	23
081	113_081	IB	CALIB				04/25/18 04:29	1.0	

CB1 04/25/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 81.

CB1 04/23/18 : Hardware failure (bent syringe) for run at position 4, RR DSL opening CCV.

WA1 04/23/18 : Position 11 was mis-injected.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S35149 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S36610 13=S36611 14=S36613 15=S36615 16=S36609 17=S35164 18=S34924 19=S34925 20=S34926 21=S34927 22=S34923
 23=S35483

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228223554

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/04/18 05:54
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	155_001	IB				06/04/18 05:54	1.0	
002	155_002	CCV	DSL_500			06/04/18 06:22	1.0	1
003	155_003	CCV	MO_500			06/04/18 06:51	1.0	2
004	155_004	X	CMARKER			06/04/18 07:19	1.0	3
005	155_005	CCV	JET_250			06/04/18 08:37	1.0	4
006	155_006	BLANK	QC934363	Water	260120	06/04/18 11:26	1.0	
007	155_007	BS	QC934364	Water	260120	06/04/18 11:54	1.0	
008	155_008	BSD	QC934365	Water	260120	06/04/18 12:23	1.0	
009	155_009	SAMPLE	300258-001	Water	260120	06/04/18 12:51	1.0	
010	155_010	CCV	DSL_1000			06/04/18 13:19	1.0	5
011	155_011	CCV	MO_500			06/04/18 14:54	1.0	2
012	155_012	CCV	JET_250			06/04/18 15:23	1.0	4
013	155_013	X	CMARKER			06/04/18 15:51	1.0	3
014	155_014	IB				06/04/18 16:20	1.0	
015	155_015	IB	CALIB			06/04/18 16:48	1.0	
016	155_016	ICAL	MO_50			06/04/18 17:17	1.0	6
017	155_017	ICAL	MO_250			06/04/18 17:45	1.0	7
018	155_018	ICAL	MO_500			06/04/18 18:14	1.0	8
019	155_019	ICAL	MO_1000			06/04/18 18:43	1.0	9
020	155_020	ICAL	MO_2500			06/04/18 19:11	1.0	10
021	155_021	ICAL	MO_5000			06/04/18 19:39	1.0	10
022	155_022	IB	CALIB			06/04/18 20:08	1.0	
023	155_023	CMARKER	C8-C40			06/04/18 20:36	1.0	3
024	155_024	IB	CALIB			06/04/18 21:04	1.0	

CB1 06/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228235022

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/12/18 05:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	163_001	IB					06/12/18 05:02	1.0	
002	163_002	X	CMARKER				06/12/18 05:30	1.0	1
003	163_003	CCV	DSL_500				06/12/18 05:59	1.0	2
004	163_004	CCV	MO_500				06/12/18 06:27	1.0	3
005	163_005	CCV	BUNK_500				06/12/18 06:56	1.0	4
006	163_006	BLANK	QC935403		Water	260379	06/12/18 10:41	1.0	
007	163_007	BS	QC935404		Water	260379	06/12/18 11:09	1.0	
008	163_008	BSD	QC935405		Water	260379	06/12/18 11:38	1.0	
009	163_009	SAMPLE	300507-001		Water	260379	06/12/18 12:06	1.0	
010	163_010	SAMPLE	300379-022		Water	260379	06/12/18 12:34	1.0	
011	163_011	SAMPLE	300519-003		Water	260379	06/12/18 13:03	1.0	
012	163_012	CCV	DSL_1000				06/12/18 13:33	1.0	5
013	163_013	CCV	MO_500				06/12/18 14:02	1.0	3
014	163_014	CCV	BUNK_500				06/12/18 14:30	1.0	4
015	163_015	X	CMARKER				06/12/18 15:01	1.0	1
016	163_016	BLANK	QC935201	S	Soil	260328	06/12/18 15:30	1.0	
017	163_017	BS	QC935202	S	Soil	260328	06/12/18 15:58	1.0	
018	163_018	XBSD	QC935203	S	Soil	260328	06/12/18 16:27	1.0	
019	163_019	SAMPLE	300523-001	S	Soil	260328	06/12/18 16:56	1.0	
020	163_020	SAMPLE	300523-002	S	Soil	260328	06/12/18 17:24	1.0	
021	163_021	SAMPLE	300523-003	S	Soil	260328	06/12/18 17:53	1.0	
022	163_022	SAMPLE	300439-006		Soil	260411	06/12/18 18:22	3.0	
023	163_023	SAMPLE	300439-007		Soil	260411	06/12/18 18:51	2.0	
024	163_024	IB					06/12/18 19:19	1.0	
025	163_025	BLANK	QC935537	S	Soil	260411	06/12/18 19:48	1.0	
026	163_026	LCS	QC935538	S	Soil	260411	06/12/18 20:16	1.0	
027	163_027	BSD	QC935203	S	Soil	260328	06/12/18 20:44	1.0	
028	163_028	SAMPLE	300455-003	S	Soil	260411	06/12/18 21:13	1.0	
029	163_029	SAMPLE	300455-006	S	Soil	260411	06/12/18 21:41	1.0	
030	163_030	SAMPLE	300455-012	S	Soil	260411	06/12/18 22:09	2.0	

CB1 06/13/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

CB1 06/13/18 : Instrument stopped due to inlet pressure failure after position 30. RR last bracket.

SAMPLE PREPARATION SUMMARY

Batch # : 260379
 Started By : ALE
 Method : 3520C
 Spike #1 ID : S36867

Prep Date : 11-JUN-2018 13:57
 SOP Version : TEH_3520_rv16
 Spike #2 ID : S36488

Analysis : TEH
 Finished By : JCT
 Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300379-022		Water	500	2.5	1	0.005	7	.5				TEHM	
300394-025		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	muddy
300444-001		Water	510	2.5	1	0.004902	7	.5				TEH	
300451-001		Water	500	2.5	1	0.005	7	.5				TEH	
300451-002		Water	500	2.5	1	0.005	7	.5				TEH	
300451-003		Water	510	2.5	1	0.004902	7	.5				TEH	
300451-004		Water	500	2.5	1	0.005	6	.5				TEH	
300453-013		Water	500	2.5	1	0.005	7	.5				TEHM	See comment 1 below
300453-014		Water	500	2.5	1	0.005	7	.5				TEHM	See comment 1 below
300453-025		Water	500	2.5	1	0.005	8	.5				TEHM	See comment 2 below
300471-001		Water	1000	5	1	0.005	9	1				TEHM	
300478-002		Water	510	2.5	1	0.004902	7	.5				TEH	See comment 2 below
300507-001		Water	1000	5	1	0.005	7	1				TEHM	
300519-003		Water	225	1	1	0.004444	7	.25				TEHM	
300540-001		Water	1020	5	1	0.004902	13	1				TEH	See comment 2 below
300560-001		Water	500	2.5	1	0.005	7	.5				TEH	See comment 2 below
300598-001		Water	520	2.5	1	0.004808	7	.5				TEH	See comment 3 below
QC935403	BLANK	Water	1000	5	1	0.005		1			3630C	TEH	
QC935404	BS	Water	1000	5	1	0.005		1	1		3630C	TEH	
QC935405	BSD	Water	1000	5	1	0.005		1	1		3630C	TEH	

Comment 1: Prepped 12-JUN-2018 12:32; A/O AS1, sediment layer
 Comment 2: Prepped 12-JUN-2018 12:32; A/O AS1
 Comment 3: Prepped 12-JUN-2018 17:27; A/O AS1

CB1 06/12/18 : Matrix spikes were not performed for this analysis in batch 260379 due to insufficient sample amount.

WA1 06/12/18 : Please review NSG QCs for rush 300507 and 300519. SG QCs are still running.

EAH 06/12/18 : Re viewed for 300507 and 300519.

CB1 06/13/18 : Batch paperwork is done and all QC are run, please fully review.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

TEH (8015) Water Prep Log

version 201801

Enthlapy Analytical LLC - Berkeley

LIMS Batch No: 260379
 LIMS Analysis: TEH/M
 Date Extracted: 6/11/18

Extraction Method:
 EPA 3520c cont. L/L

Page 13 BK 4262
 Cleanup Method (if needed):
 EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
300379-022	D	<input checked="" type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____		*
300394-025	G	<input checked="" type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	X	muddy
300444-001	H	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> S10	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____		
300451-001	G	<input checked="" type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____		
↓	2	F	<input checked="" type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	
↓	3	G	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> S10	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	
↓	4	F	<input checked="" type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 6	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	
300471-001	E	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> 9	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		
300507-001	F	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		
300519-003	K	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 925	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 1.0		225ml ◇
MB QC 935403	N/A	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0	X	
BS ↓	4	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0	X	
BSD ↓	S	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0	X	
300453-013	E	<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____		A/O ASI 6/12/18 12:52
↓	14	D	<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	Sediment layer
↓	25	D	<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> 8	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	± ASI 6/12/18
300478-002	H	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> S10	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5		AR6 6/13/18
300540-001	H	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1070	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> 13	<input checked="" type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5		
300560-001	K	<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____		
_____		<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input type="checkbox"/> _____		
_____		<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input type="checkbox"/> _____		
_____		<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input type="checkbox"/> _____		
_____		<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input type="checkbox"/> _____		
_____		<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input type="checkbox"/> _____		

BS/BSD-only (MS/MSD not included) due to: insufficient volume, or other (reason)

surrogate volume adjusted proportionally to sample volume

Checked pH with pH strips - lot #
 0.25/0.5/1.0 mL of TEH_SURR was added to all samples
 * 1.0 mL of TEH_SP was added to all spikes
 3520c: Samples were continually extracted about 450 mL of CH₂Cl₂
 Extraction Start Time: _____
 Extraction End Time: _____
 3510c: Samples were extracted 3 times with 60 mL of CH₂Cl₂
 Extracts filtered through baked, CH₂Cl₂-rinsed granular Na₂SO₄
 Concentrated to final volume in boiling water bath
 Relinquished to TEH Department

Mfg & Lot# / LIMS # / Tin	Date / Initials
0BDHS261	ALE 6/11/18
S36867C	
S36488E	
EMS8068	
13:57/12:37/1027	
8:00/67:59/1130	CRE 6/12/18
EMS8068	JCT 6/12/18
EM16T285202	
-	
-	

AR 6/11/18
 Extraction Chemist Date

Continued from Page _____
 Continued on Page 15

AR6 6/13/18
 C. Rushes 6/13/18
 C. Rushes 6/12/18 & Rushes
 Reviewed by Date

Laboratory Job Number 300379

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Soil

Total Extractable Hydrocarbons			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/04/18
Units:	mg/Kg	Received:	06/05/18
Basis:	dry	Prepared:	06/12/18
Diln Fac:	1.000		

Field ID: BR11-1SB012[3] Moisture: 19%
 Type: SAMPLE Batch#: 260411
 Lab ID: 300379-001 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.2 Y	1.2	0.38
Motor Oil C24-C36	6.5 Y	6.1	1.9

Surrogate	%REC	Limits
o-Terphenyl	115	59-130

Field ID: BR11-1SB012[5] Moisture: 16%
 Type: SAMPLE Batch#: 260411
 Lab ID: 300379-002 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.58 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	121	59-130

Field ID: BR11-1SB012[7] Moisture: 15%
 Type: SAMPLE Batch#: 260411
 Lab ID: 300379-003 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.43 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	116	59-130

Field ID: BR11-1SB012[10] Moisture: 16%
 Type: SAMPLE Batch#: 260411
 Lab ID: 300379-004 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.3 Y	1.2	0.36
Motor Oil C24-C36	3.9 J	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	115	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/04/18
Units:	mg/Kg	Received:	06/05/18
Basis:	dry	Prepared:	06/12/18
Diln Fac:	1.000		

Field ID: BR11-1SB012[15] Moisture: 15%
 Type: SAMPLE Batch#: 260411
 Lab ID: 300379-005 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	2.0 Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	112	59-130

Field ID: BR11-1SB012[20] Moisture: 15%
 Type: SAMPLE Batch#: 260411
 Lab ID: 300379-006 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.88 J Y	1.2	0.36
Motor Oil C24-C36	1.8 J	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	120	59-130

Field ID: BR11-1SB012[25] Moisture: 15%
 Type: SAMPLE Batch#: 260411
 Lab ID: 300379-007 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.90 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	102	59-130

Field ID: BR11-1SB012[30] Moisture: 13%
 Type: SAMPLE Batch#: 260411
 Lab ID: 300379-008 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.97 J Y	1.2	0.35
Motor Oil C24-C36	ND	5.8	1.7

Surrogate	%REC	Limits
o-Terphenyl	118	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/04/18
Units:	mg/Kg	Received:	06/05/18
Basis:	dry	Prepared:	06/12/18
Diln Fac:	1.000		

Field ID: BR11-1SB012[35] Moisture: 16%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-009 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.55 J Y	1.2	0.36
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	111	59-130

Field ID: BR11-1SB012[40] Moisture: 6%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-010 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	3.6 Y Z	1.1	0.33
Motor Oil C24-C36	ND	5.3	1.6

Surrogate	%REC	Limits
o-Terphenyl	112	59-130

Field ID: BR11-1SB012[45] Moisture: 8%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-011 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	4.0 Y Z	1.1	0.33
Motor Oil C24-C36	11	5.4	1.6

Surrogate	%REC	Limits
o-Terphenyl	109	59-130

Field ID: BR11-1SB012[50] Moisture: 10%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-012 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.9 Y Z	1.1	0.34
Motor Oil C24-C36	3.9 J	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	106	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/04/18
Units:	mg/Kg	Received:	06/05/18
Basis:	dry	Prepared:	06/12/18
Diln Fac:	1.000		

Field ID: DUP06042018-01 Moisture: 14%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-013 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.92 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	102	59-130

Field ID: BR11-1SB014[3] Moisture: 19%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-014 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.2 J Y	1.2	0.38
Motor Oil C24-C36	4.0 J	6.2	1.9

Surrogate	%REC	Limits
o-Terphenyl	114	59-130

Field ID: BR11-1SB014[5] Moisture: 18%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-015 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.66 J Y	1.2	0.37
Motor Oil C24-C36	ND	6.1	1.9

Surrogate	%REC	Limits
o-Terphenyl	103	59-130

Field ID: BR11-1SB014[7] Moisture: 15%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-016 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.72 J Y	1.2	0.36
Motor Oil C24-C36	2.0 J	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	101	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/04/18
Units:	mg/Kg	Received:	06/05/18
Basis:	dry	Prepared:	06/12/18
Diln Fac:	1.000		

Field ID: BR11-1SB014[10] Moisture: 13%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-017 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	28 Y	1.1	0.35
Motor Oil C24-C36	96	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	102	59-130

Field ID: BR11-1SB014[15] Moisture: 13%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-018 Analyzed: 06/13/18

Analyte	Result	RL	MDL
Diesel C10-C24	3.0 Y Z	1.2	0.35
Motor Oil C24-C36	ND	5.8	1.7

Surrogate	%REC	Limits
o-Terphenyl	110	59-130

Field ID: BR11-1SB014[20] Moisture: 17%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-019 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	2.9 Y Z	1.2	0.37
Motor Oil C24-C36	8.1	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	100	59-130

Field ID: BR11-1SB014[25] Moisture: 7%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-020 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.47 J Y	1.1	0.33
Motor Oil C24-C36	ND	5.4	1.6

Surrogate	%REC	Limits
o-Terphenyl	101	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/04/18
Units:	mg/Kg	Received:	06/05/18
Basis:	dry	Prepared:	06/12/18
Diln Fac:	1.000		

Field ID: DUP06042018-02 Moisture: 16%
 Type: SAMPLE Batch#: 260428
 Lab ID: 300379-021 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.46 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	107	59-130

Type: BLANK Batch#: 260411
 Lab ID: QC935537 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	116	59-130

Type: BLANK Batch#: 260428
 Lab ID: QC935613 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.36 J	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	110	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC935538	Batch#:	260411
Matrix:	Soil	Prepared:	06/12/18
Units:	mg/Kg	Analyzed:	06/12/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	53.35	107	56-137

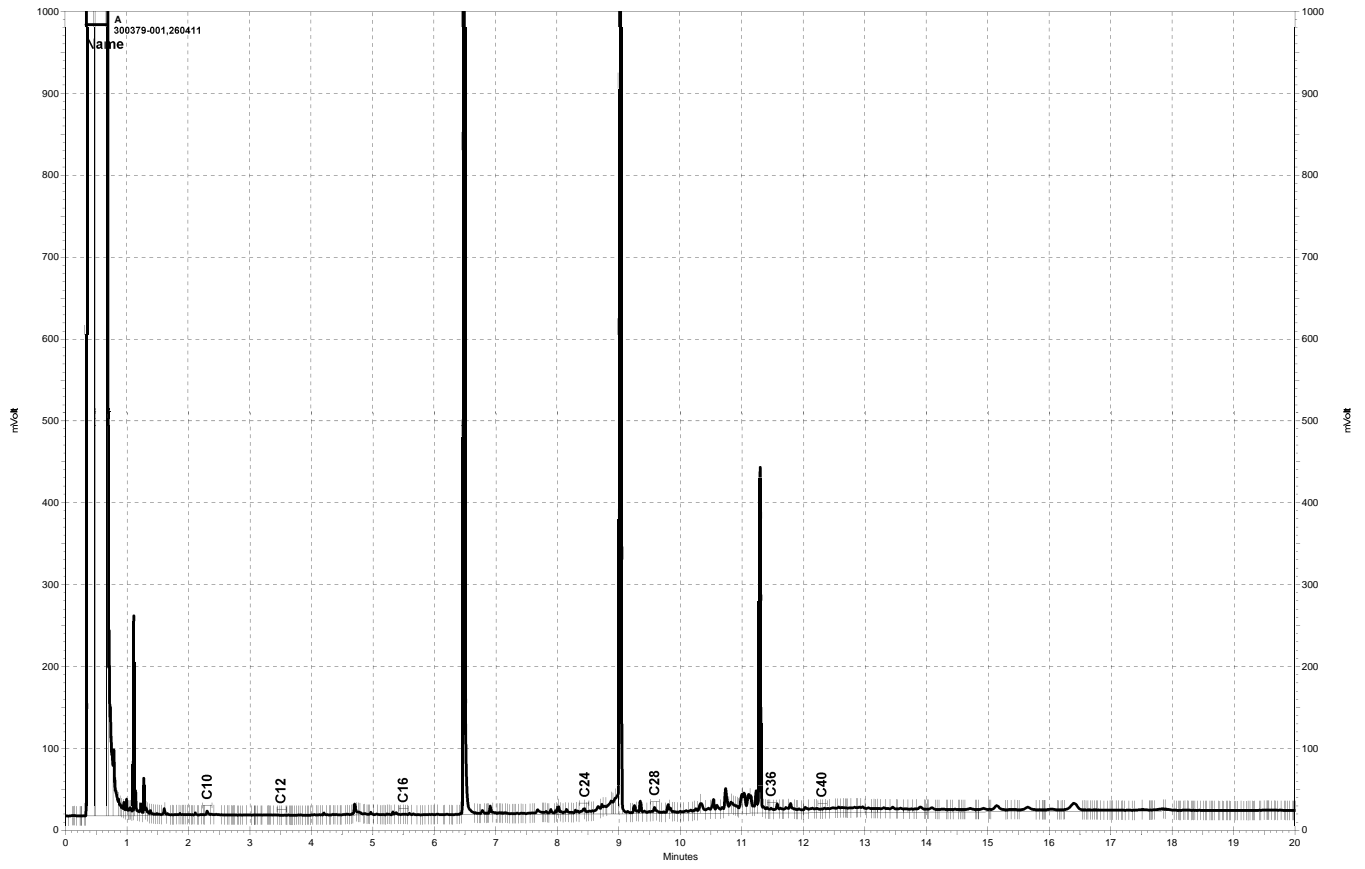
Surrogate	%REC	Limits
o-Terphenyl	127	59-130

Batch QC Report

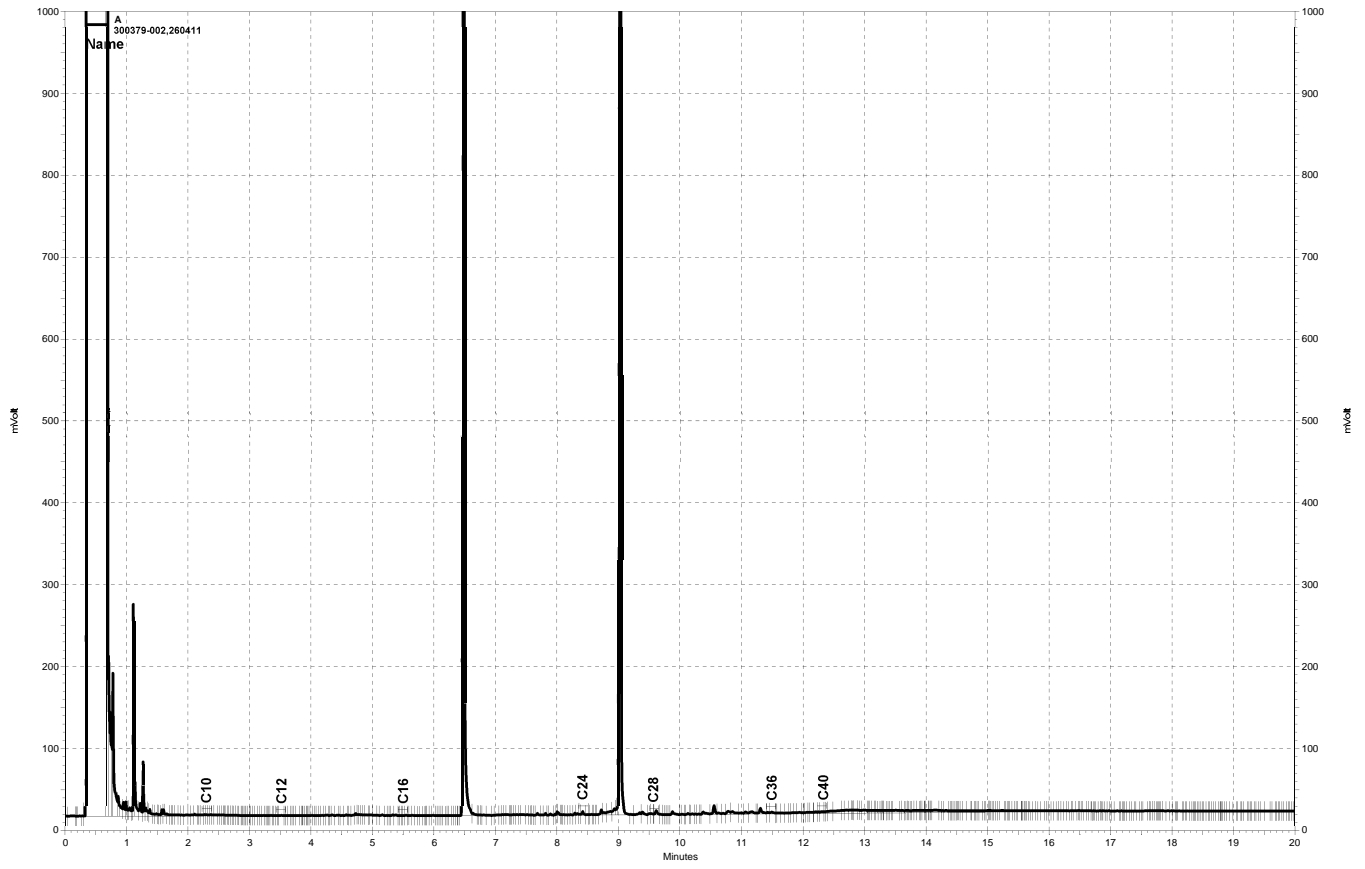
Total Extractable Hydrocarbons			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC935614	Batch#:	260428
Matrix:	Soil	Prepared:	06/12/18
Units:	mg/Kg	Analyzed:	06/12/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	49.75	100	56-137

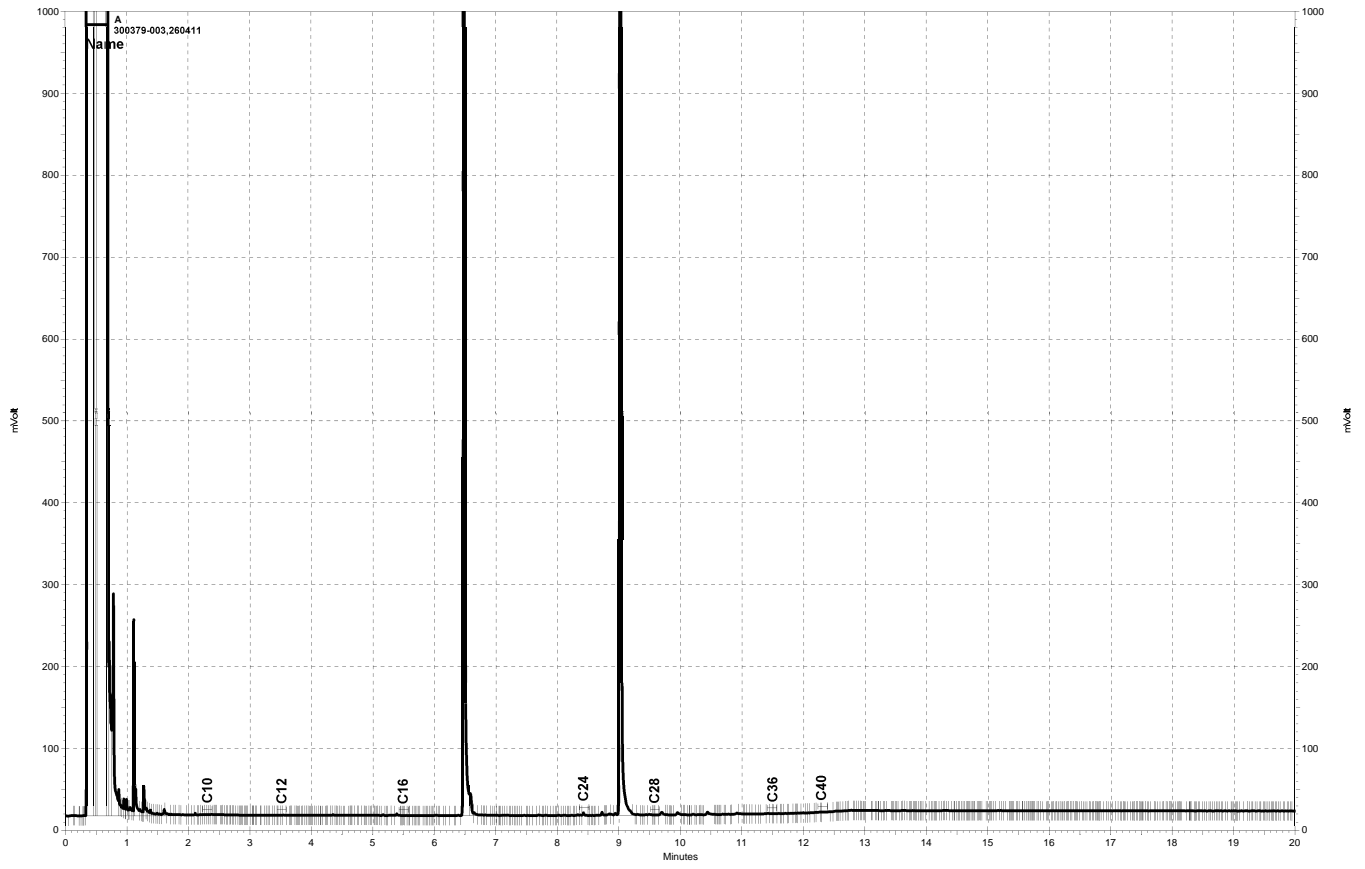
Surrogate	%REC	Limits
o-Terphenyl	119	59-130



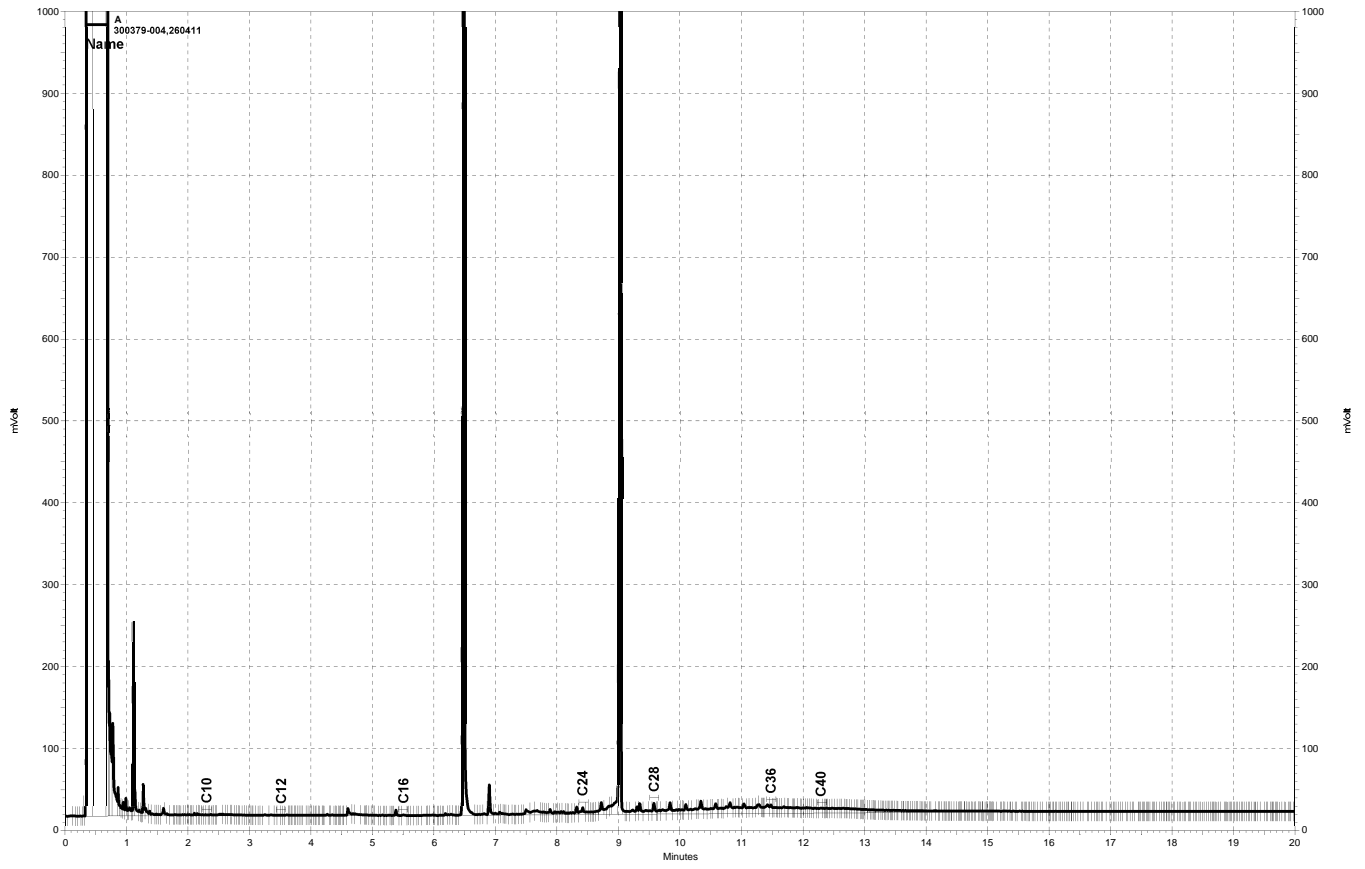
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\163a029, A



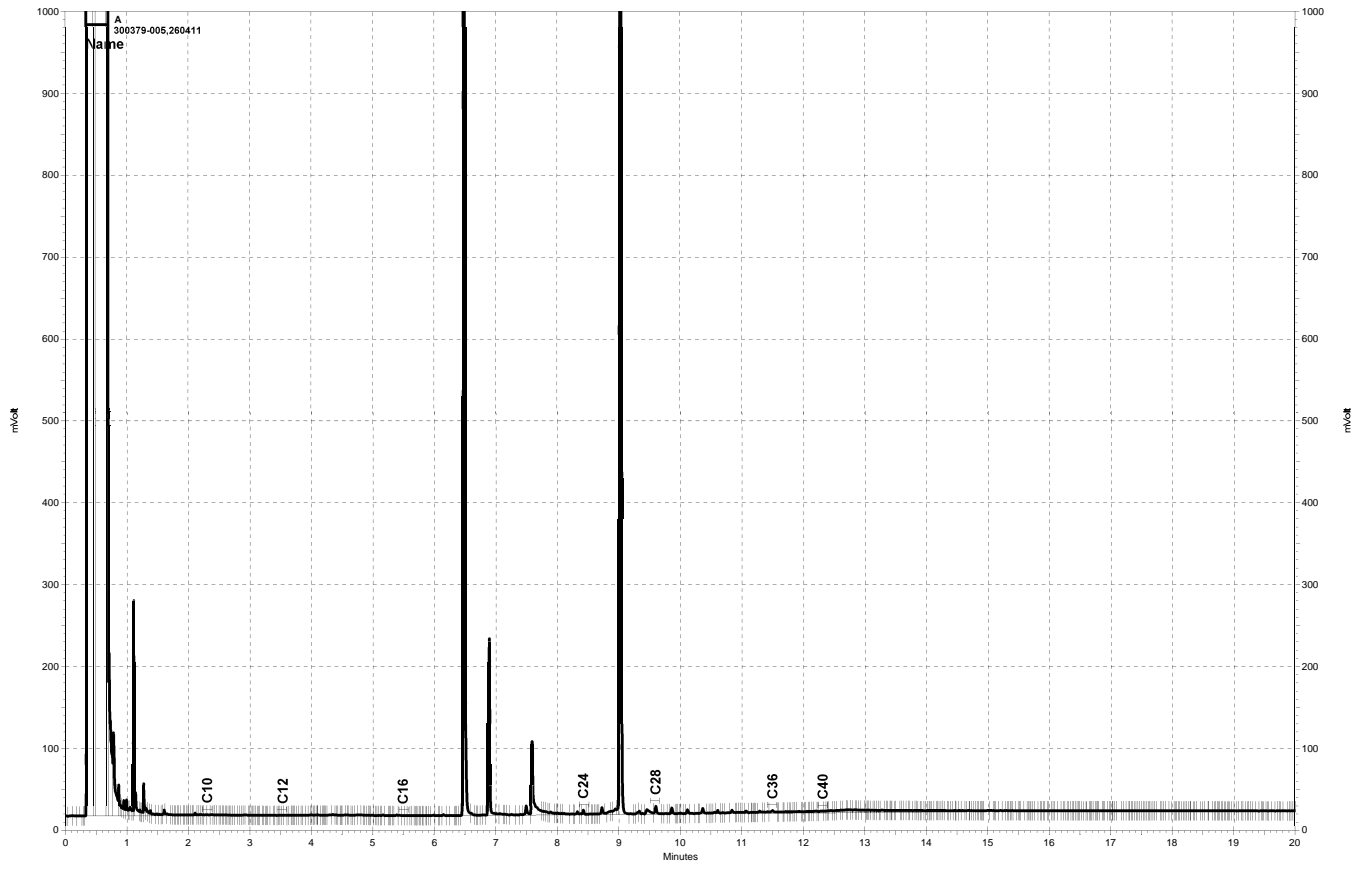
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\163a030, A



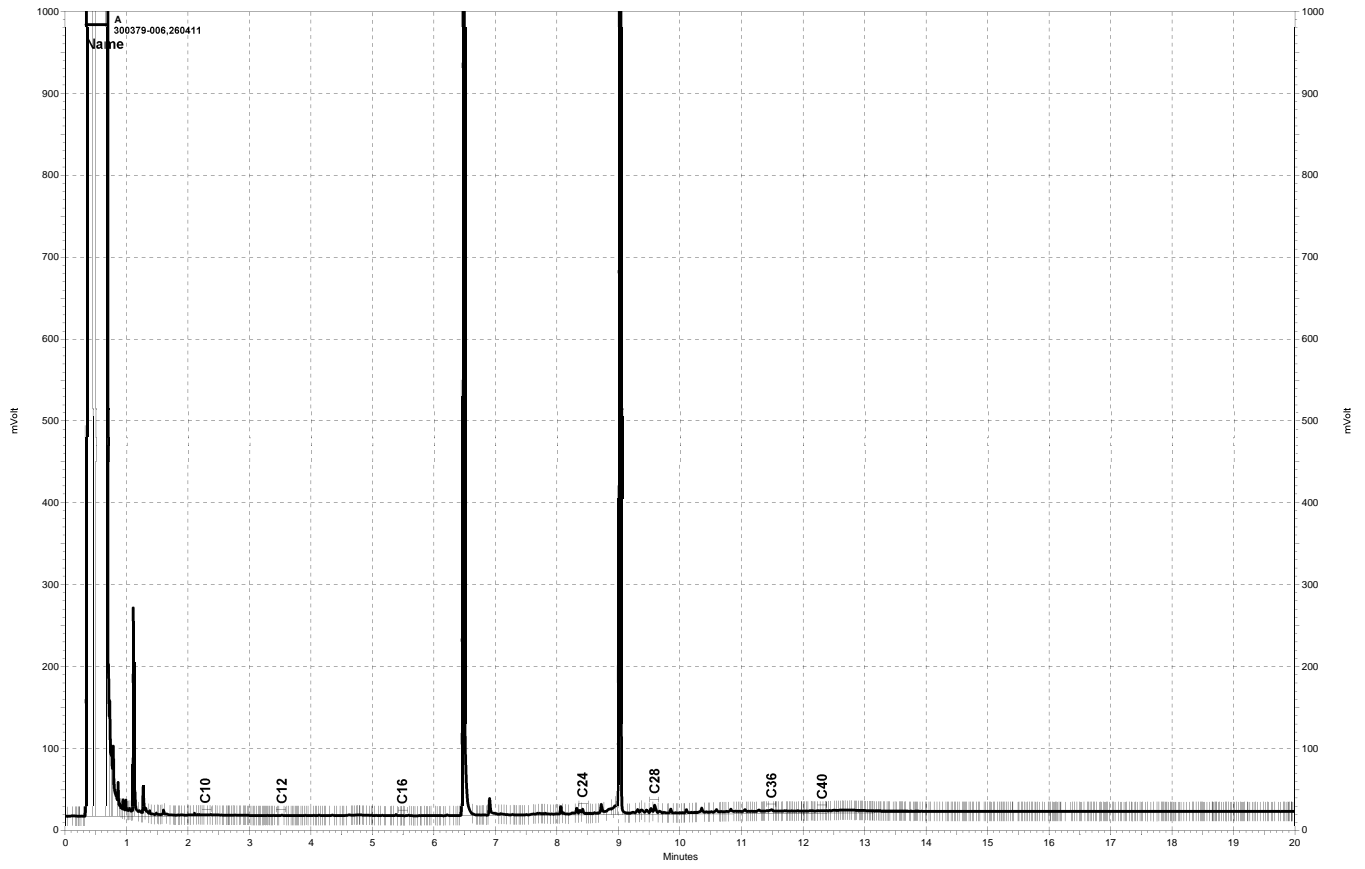
— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\163a032, A



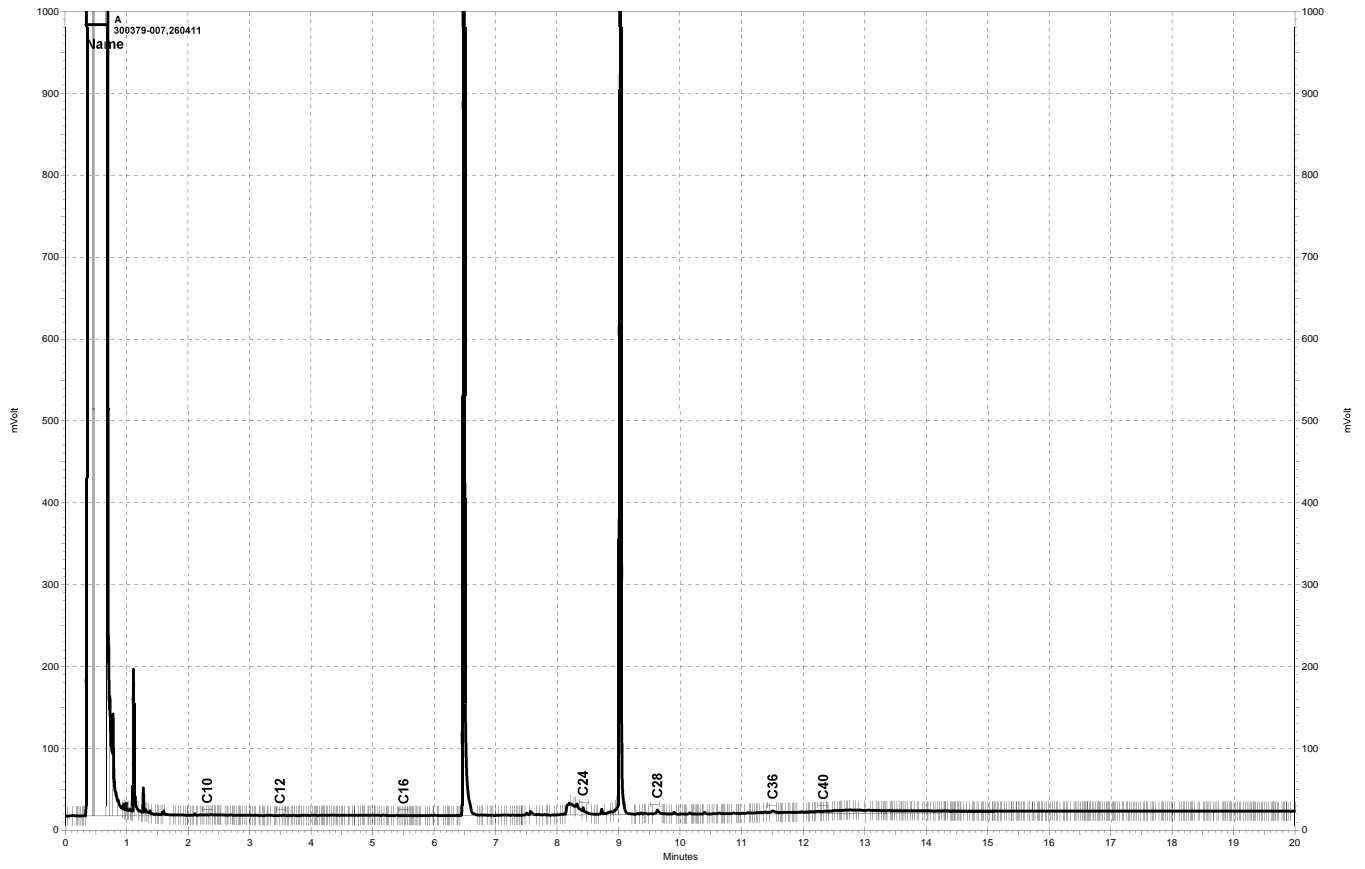
— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\163a033, A



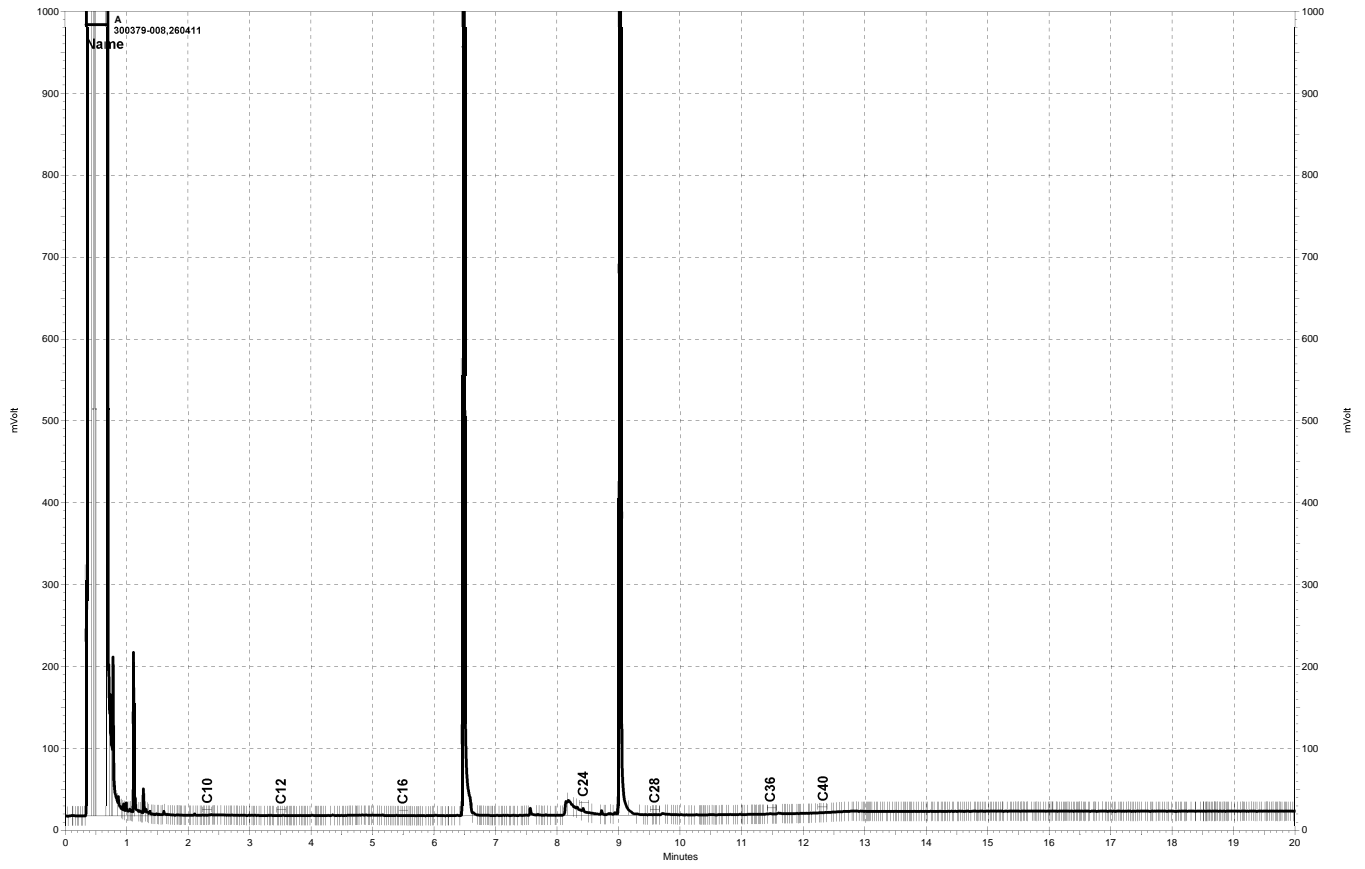
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\163a026, A



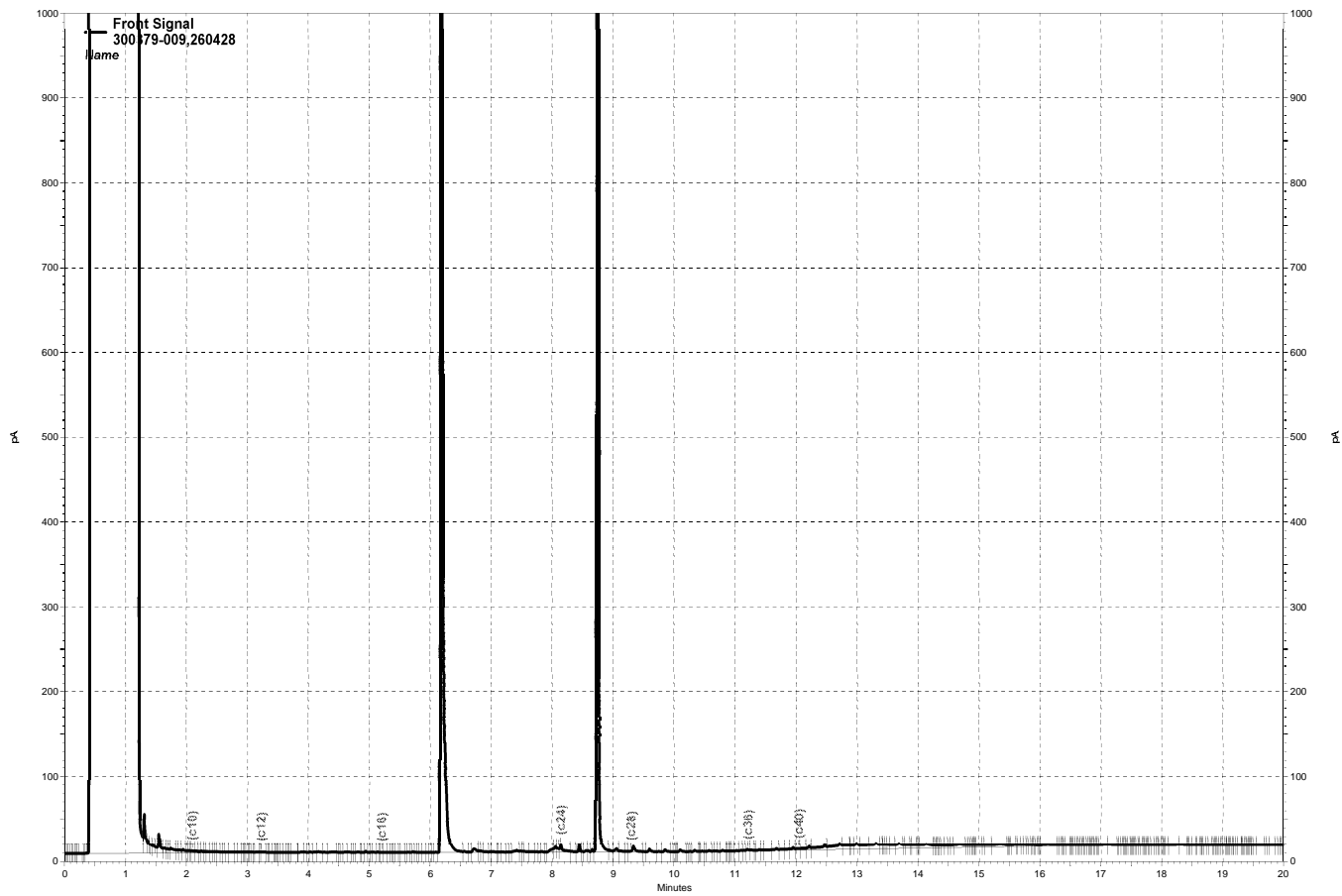
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\163a034, A



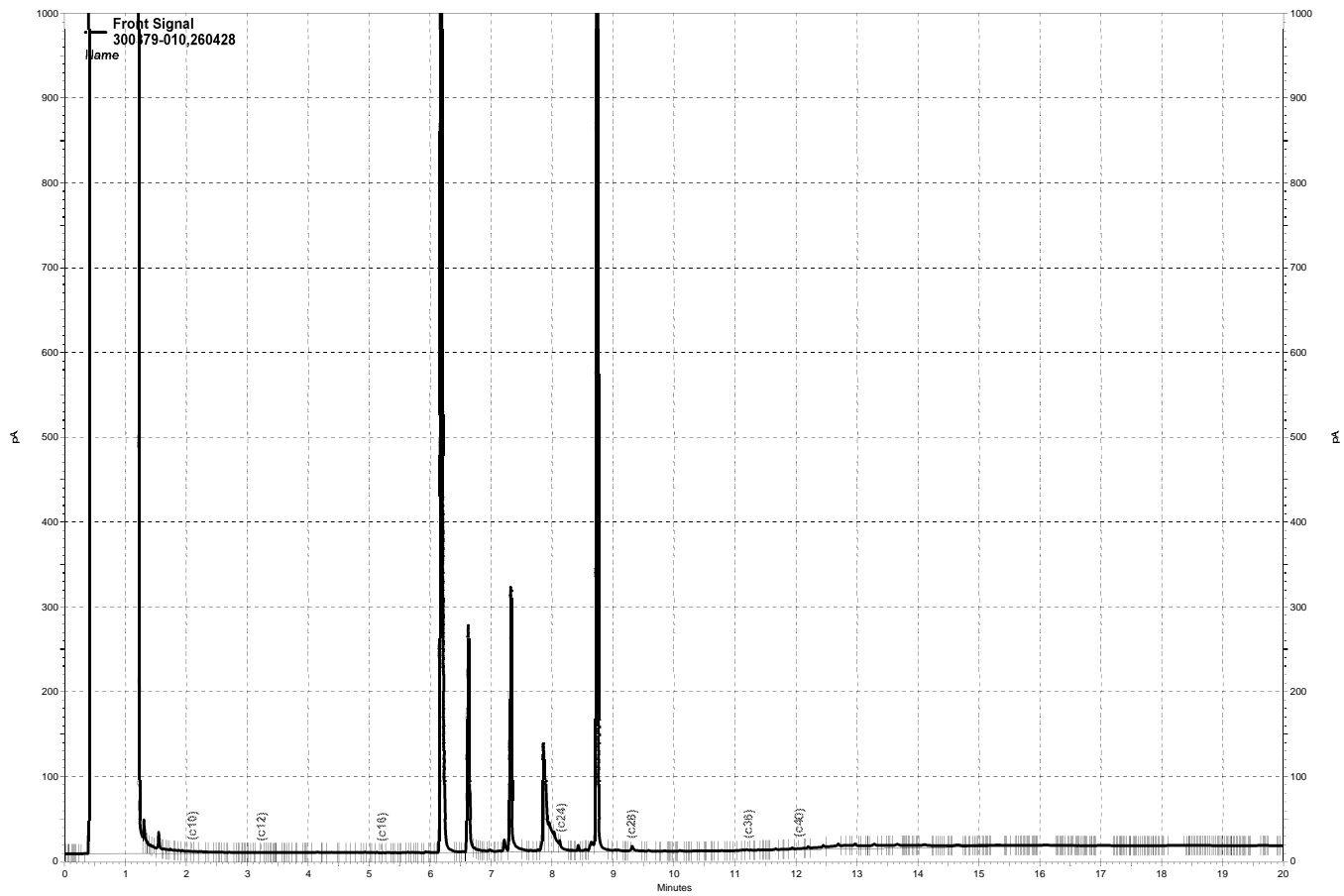
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\163a035, A



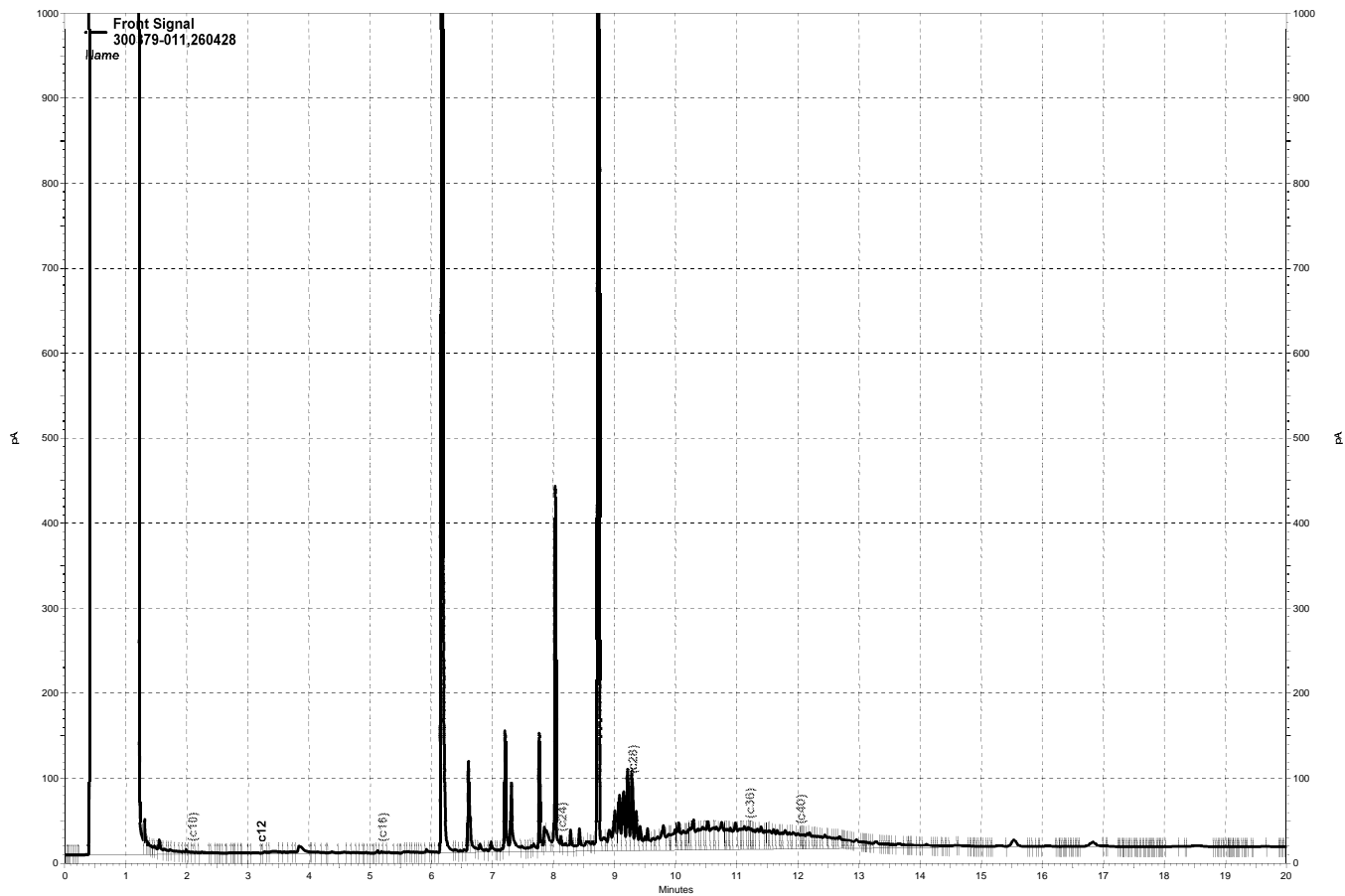
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\163a036, A



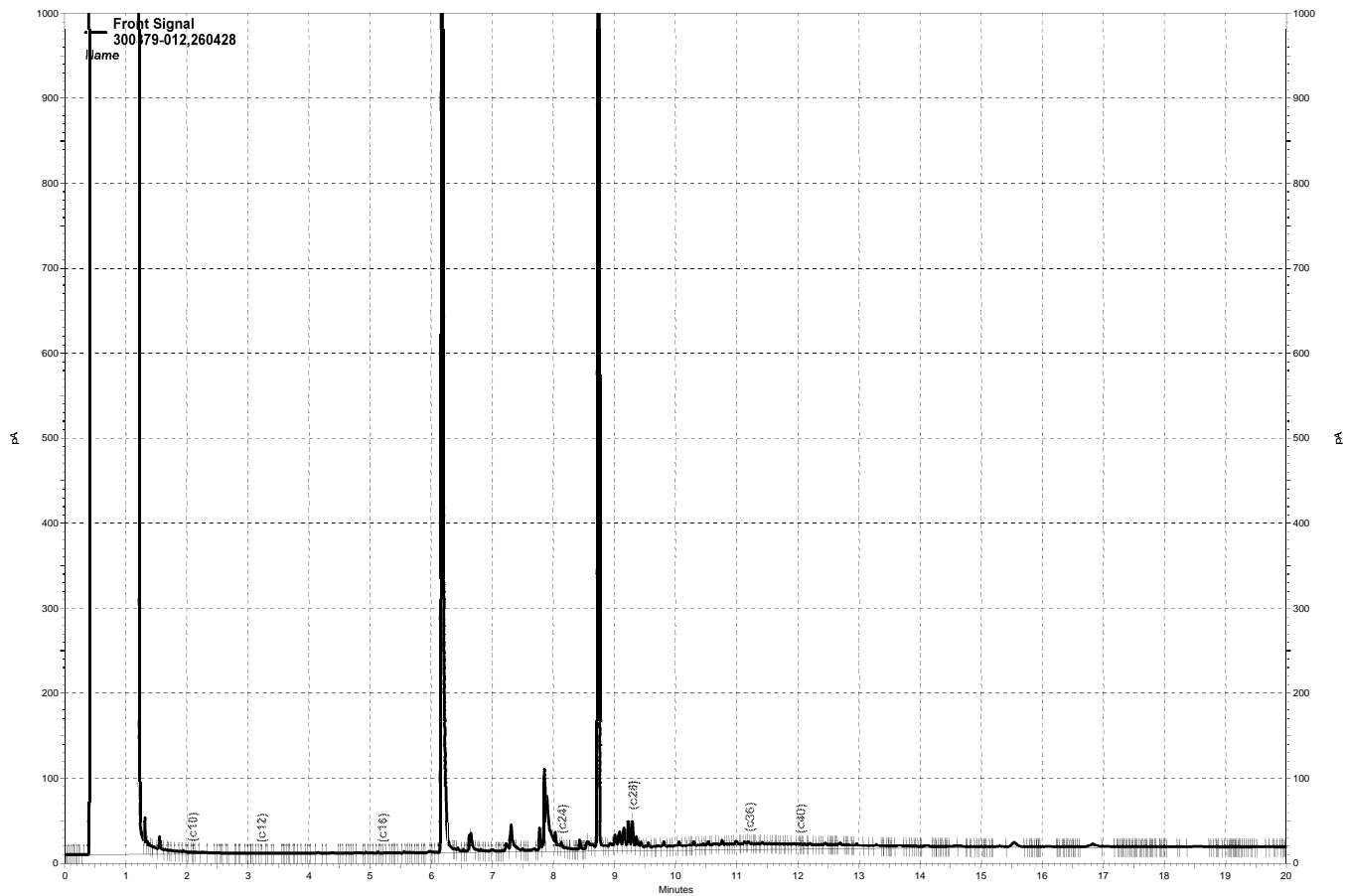
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a055.dat, Front Signal



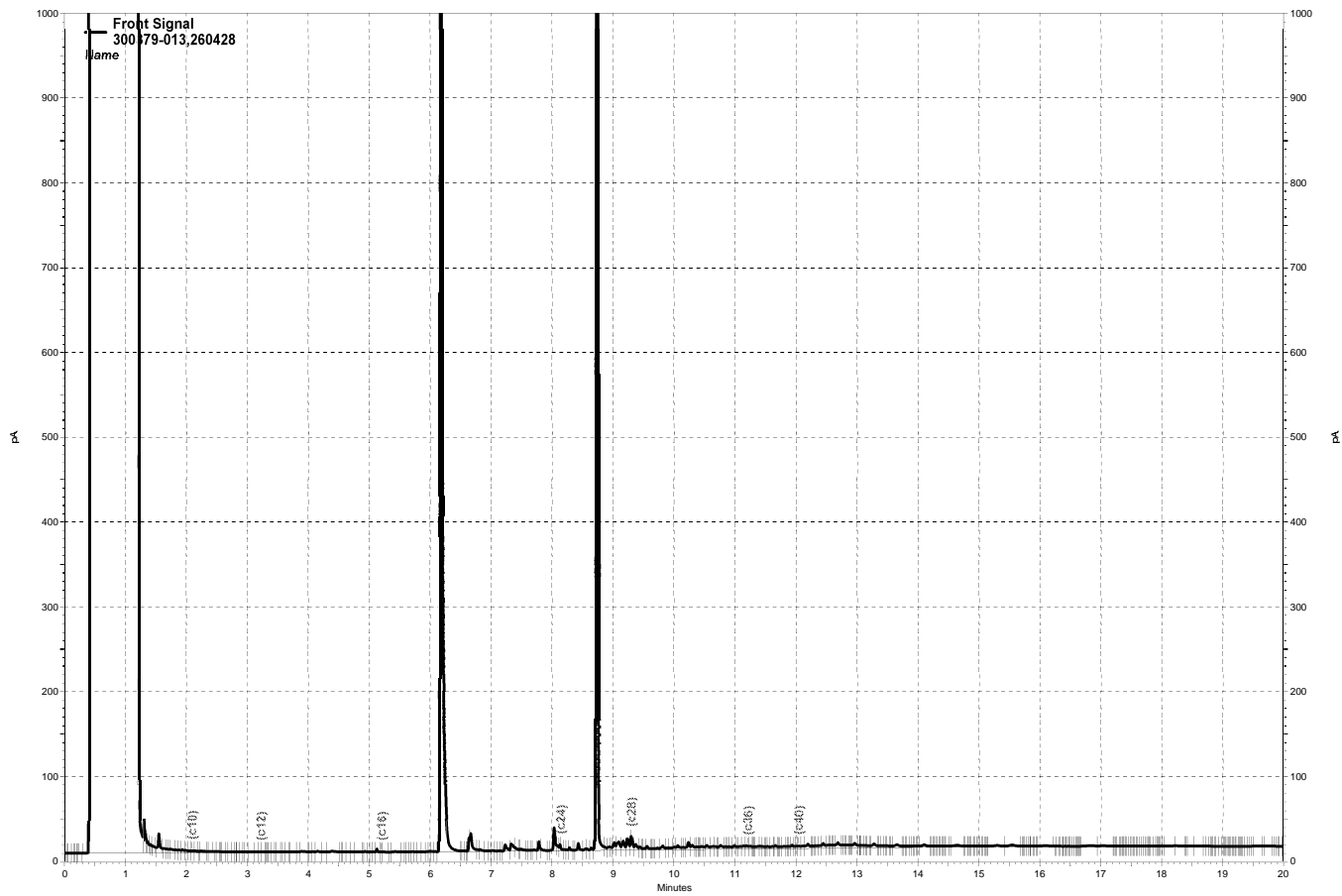
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a056.dat, Front Signal



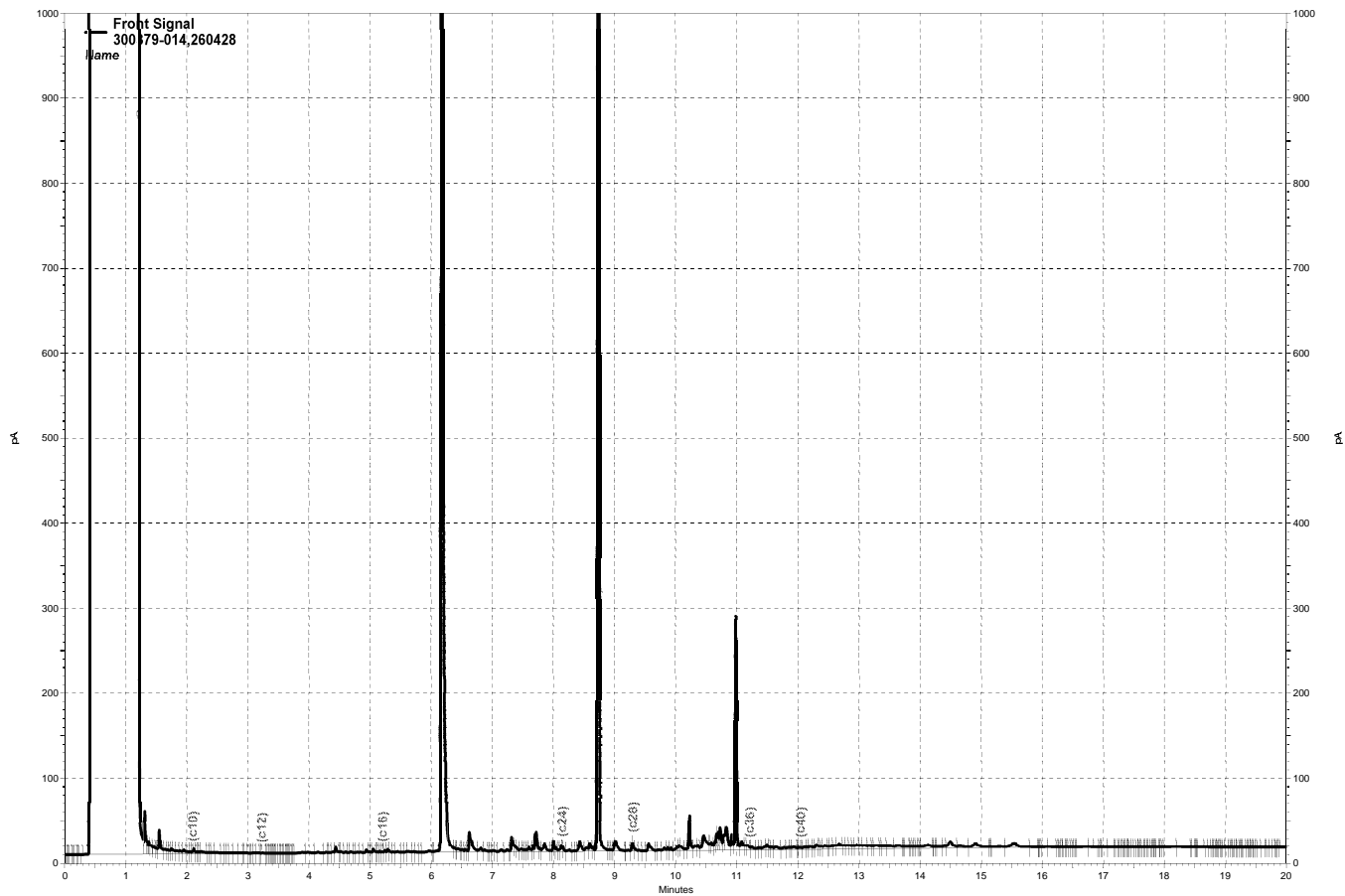
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a057.dat, Front Signal



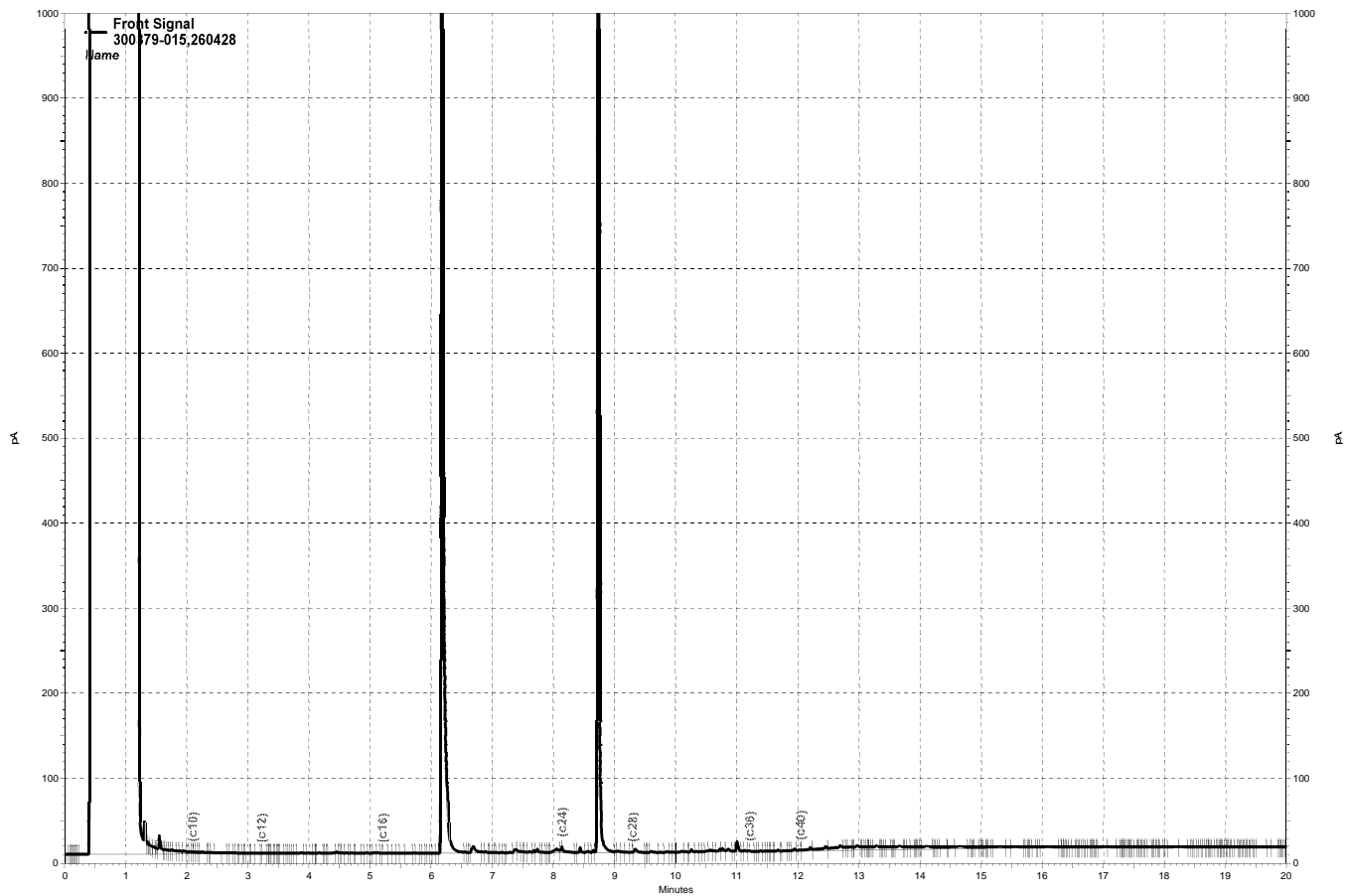
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a058.dat, Front Signal



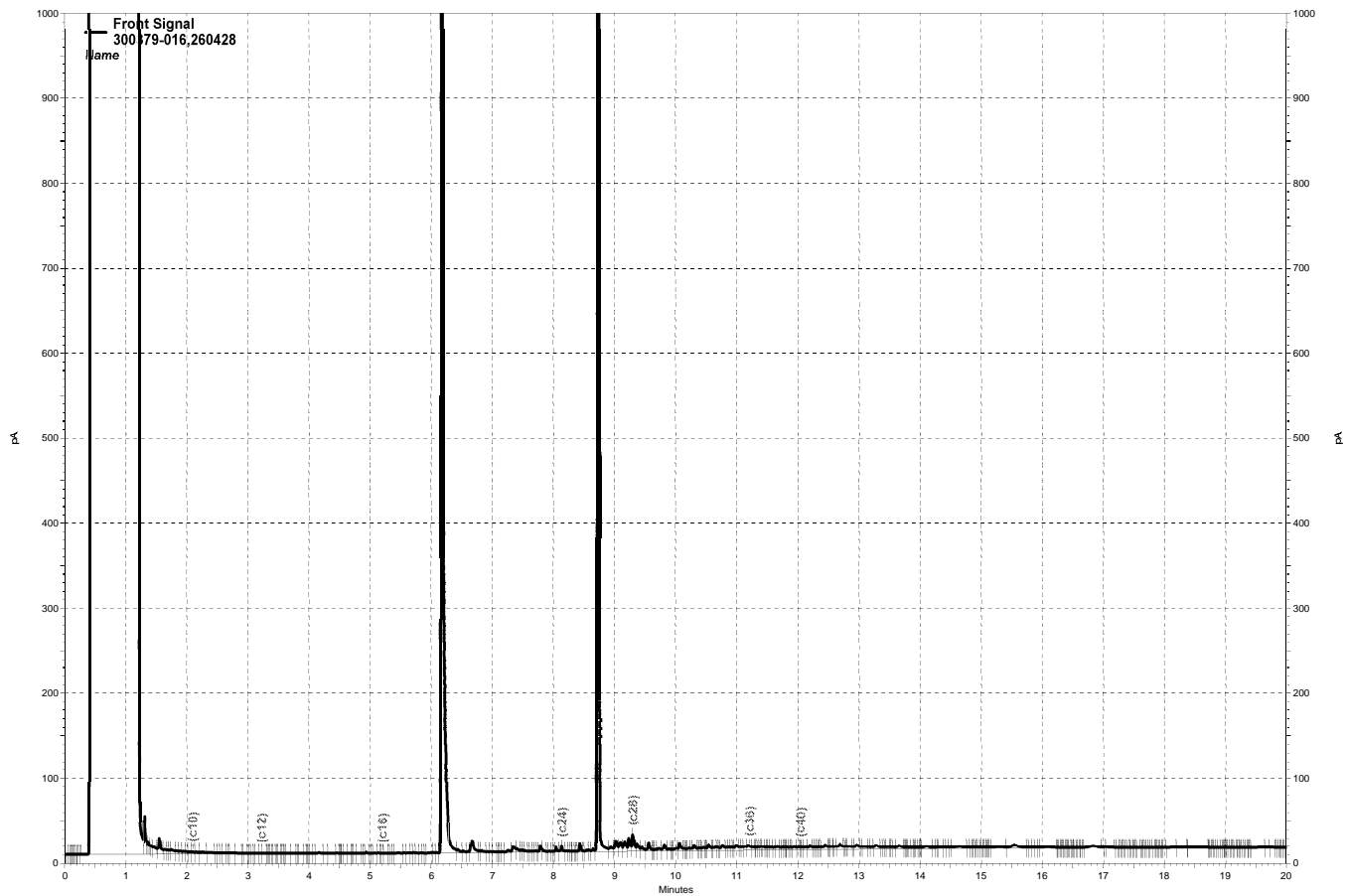
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a059.dat, Front Signal



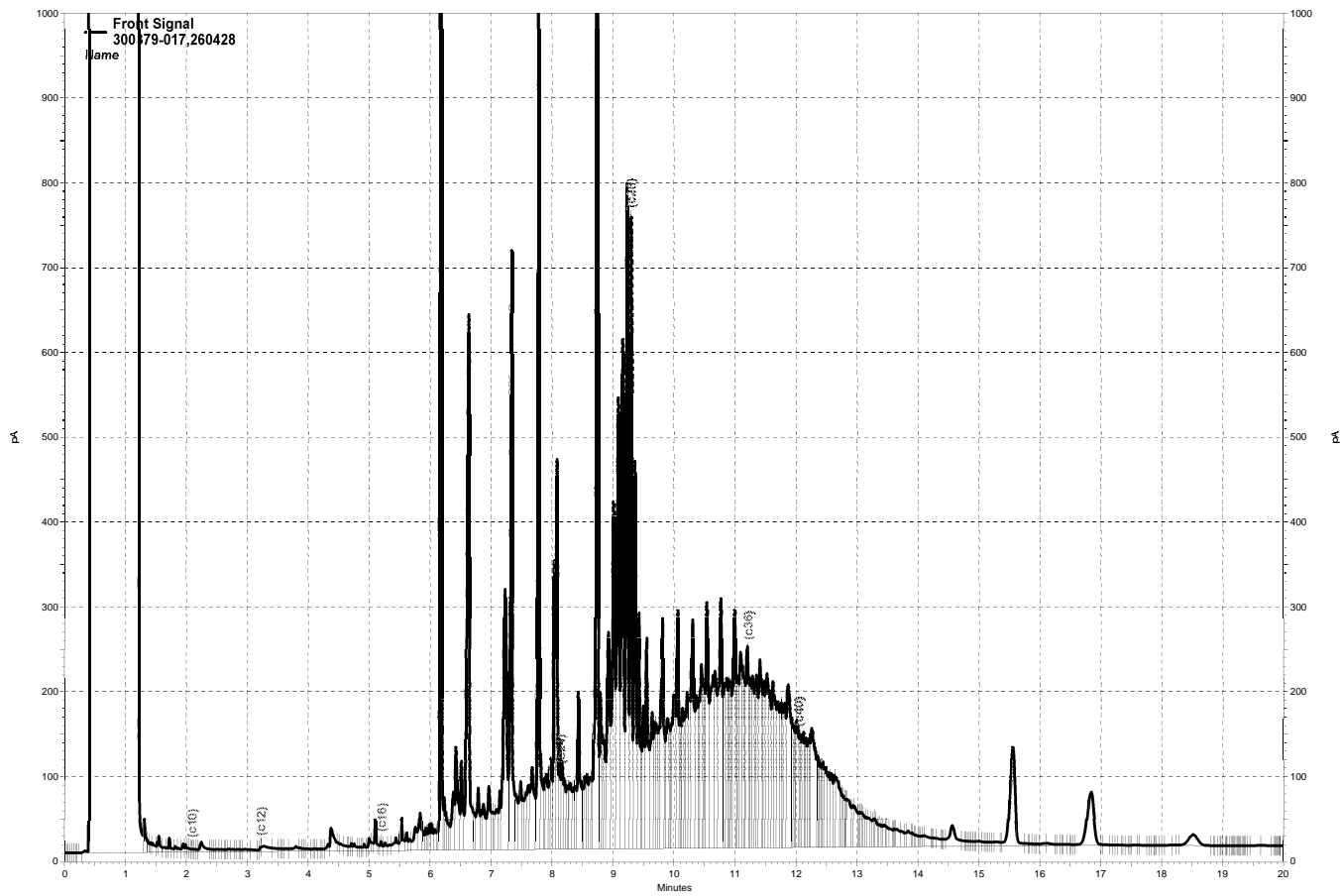
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a060.dat, Front Signal



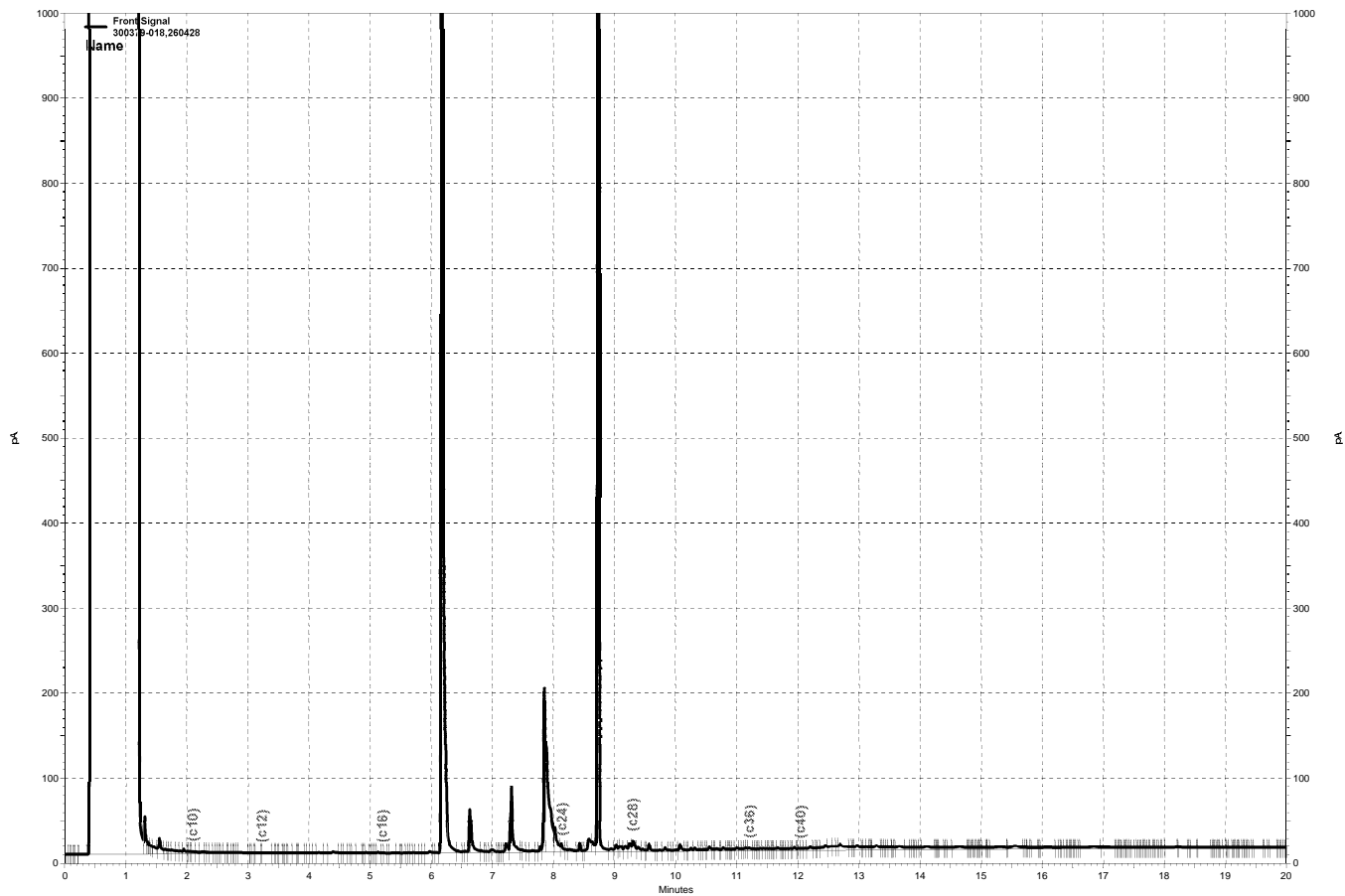
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a061.dat, Front Signal



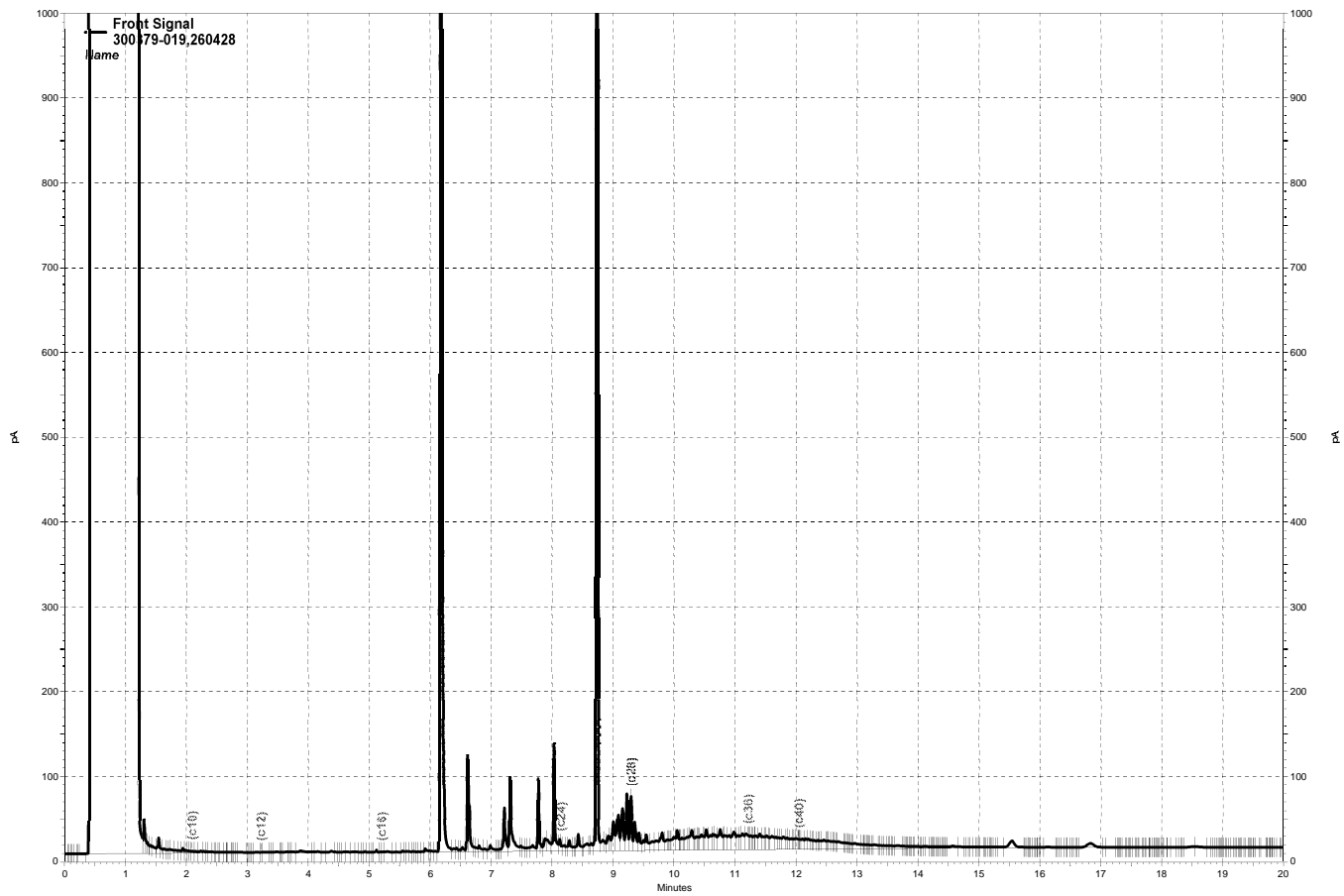
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a062.dat, Front Signal



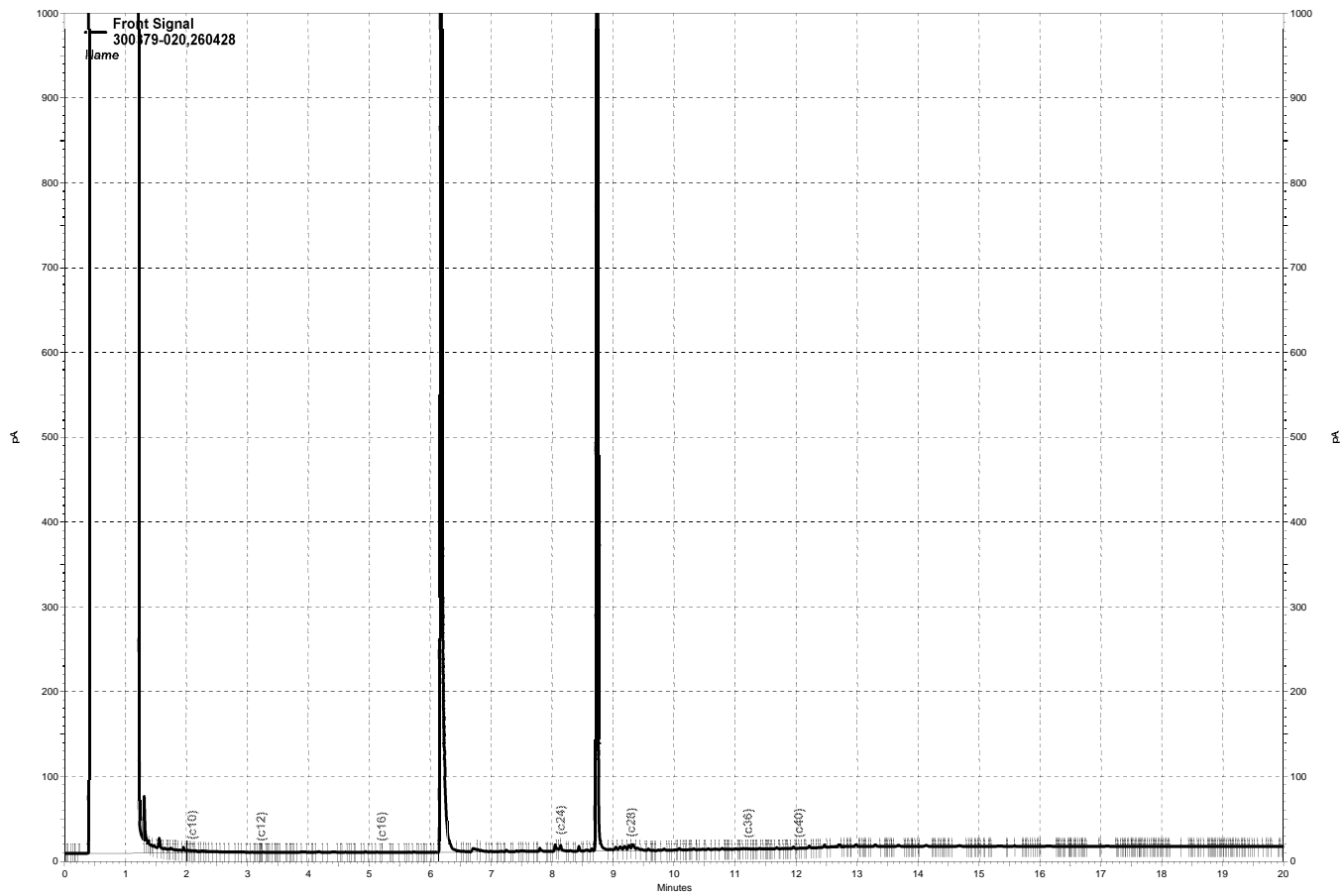
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a063.dat, Front Signal



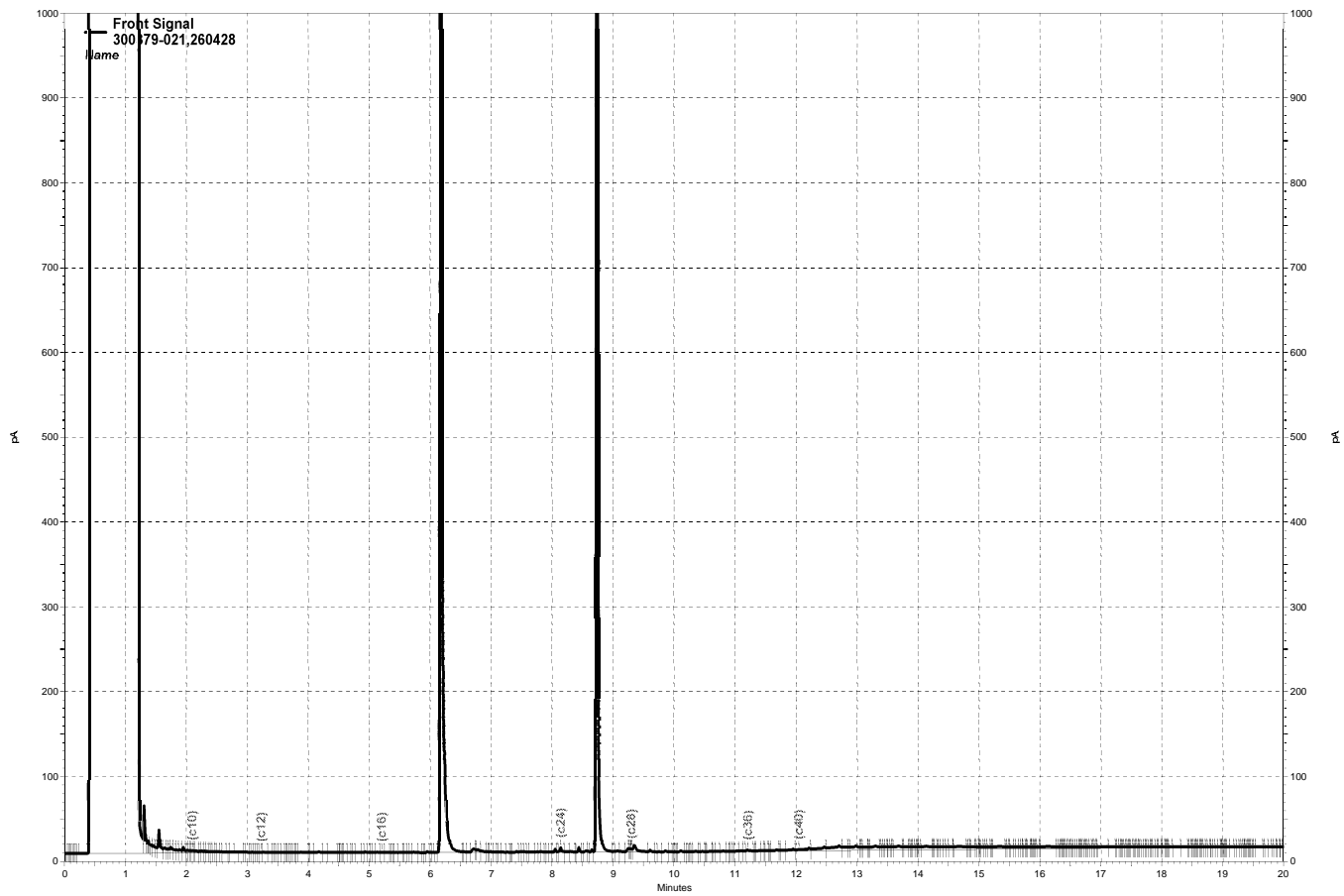
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a064.dat, Front Signal



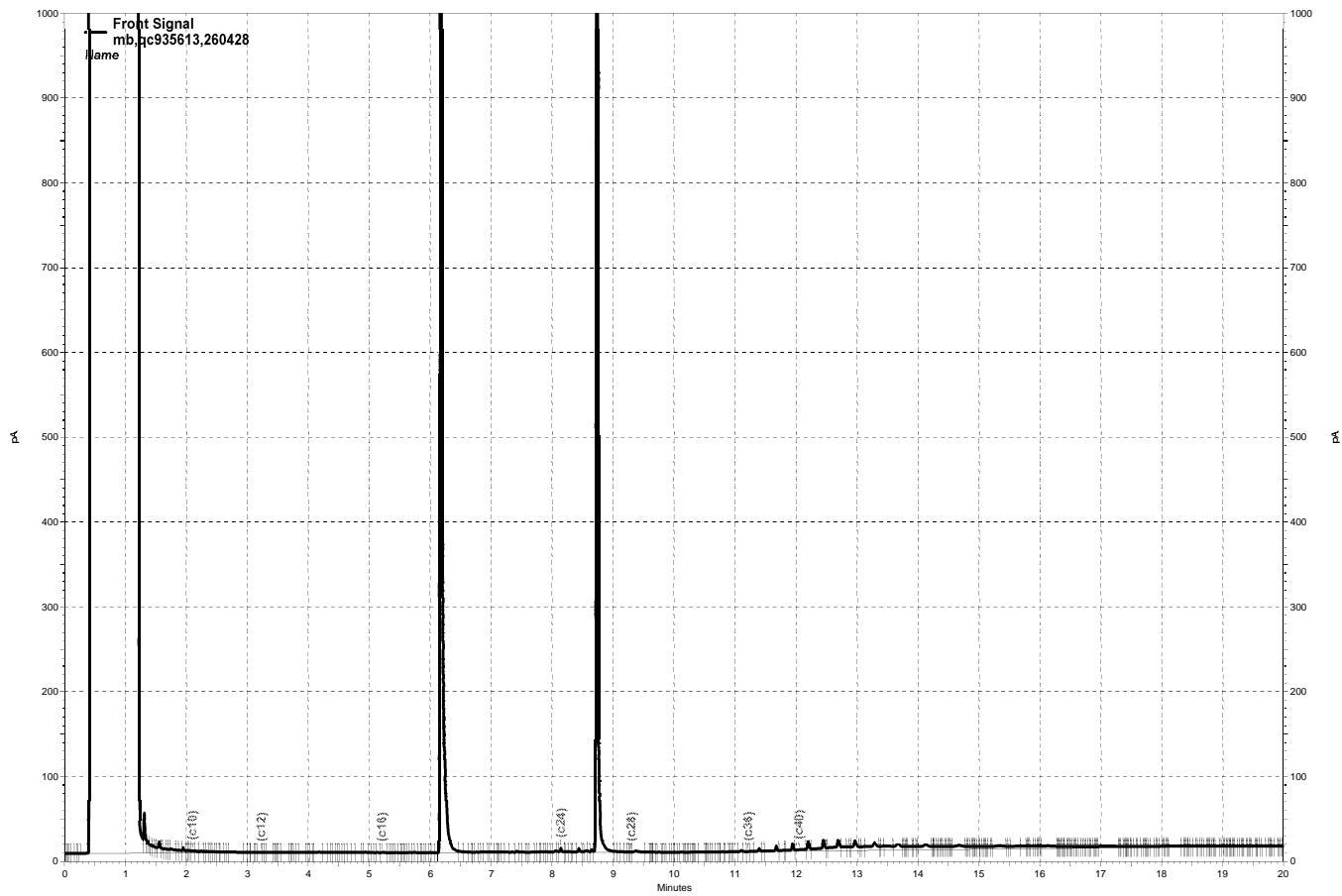
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a036.dat, Front Signal



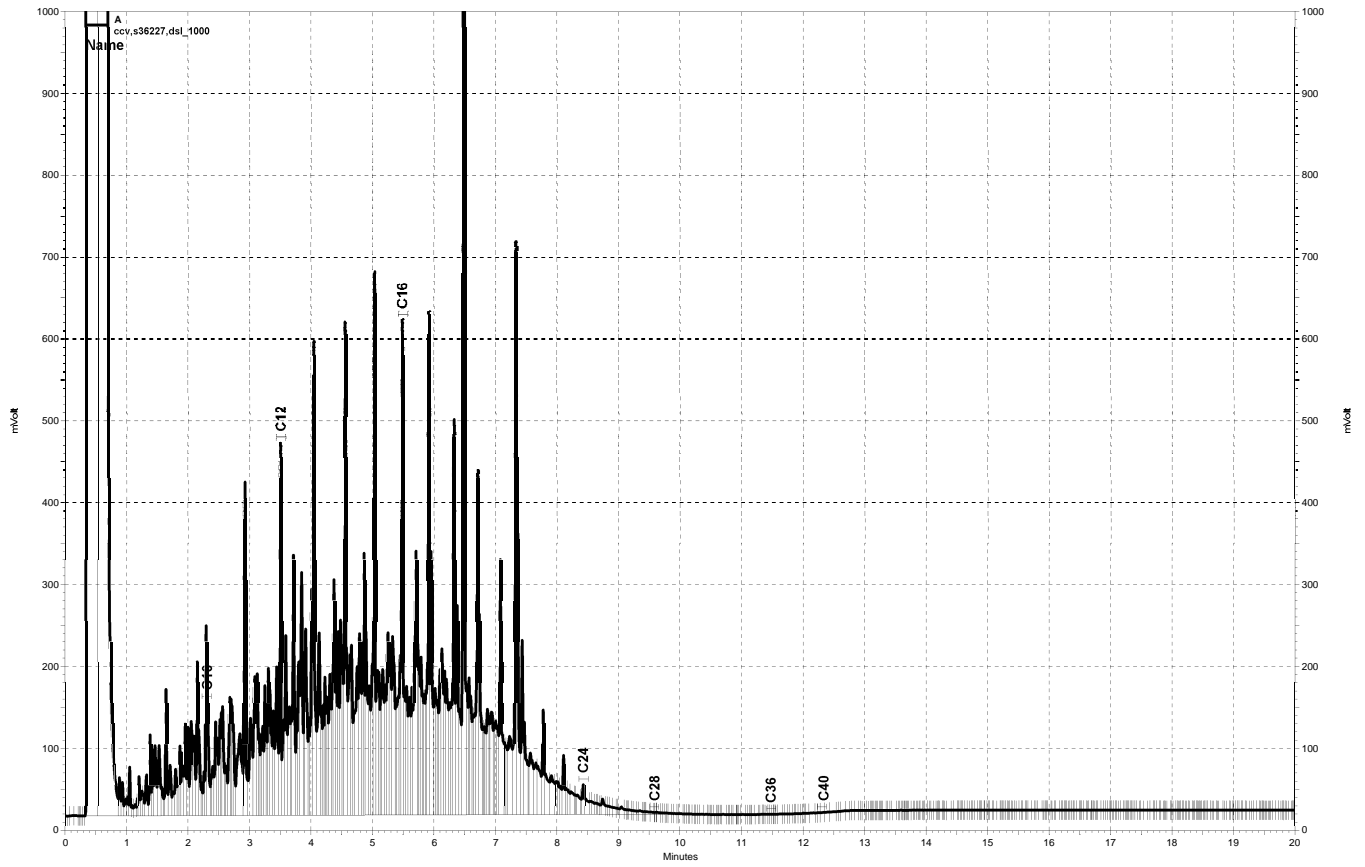
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a031.dat, Front Signal



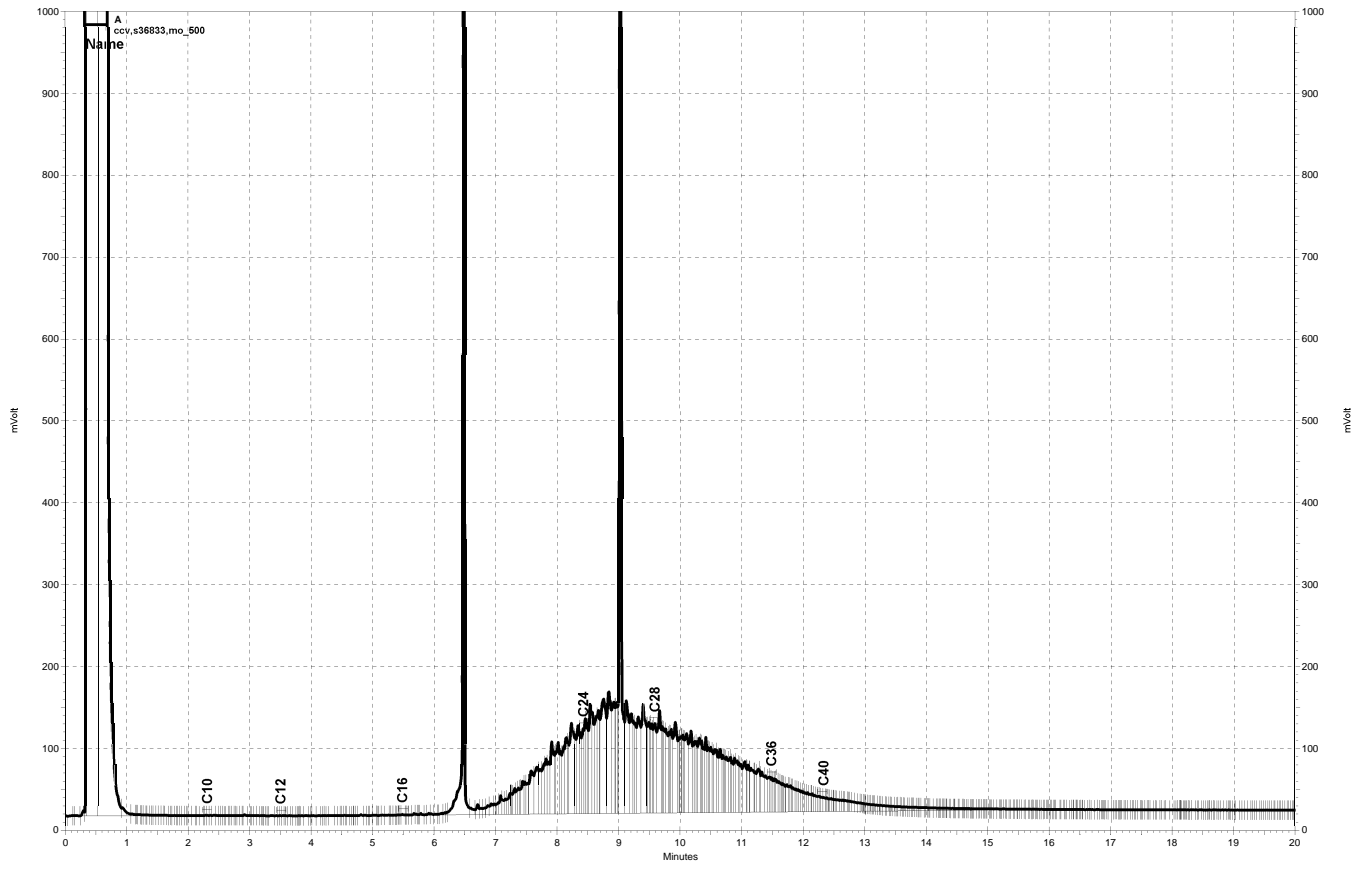
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a037.dat, Front Signal



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a029.dat, Front Signal



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\163a018, A



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\163a019, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 300379 GCSV Soil: EPA 8015B

Inst : GC26A
 Calnum : 868183255002
 Units : mg/L

Name : HEXOTP_127
 Date : 07-MAY-2018 09:35
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	127a007	868183255007	HEXOTP_5	07-MAY-2018 09:35	S36499
L2	127a008	868183255008	HEXOTP_10	07-MAY-2018 10:04	S36500
L3	127a009	868183255009	HEXOTP_25	07-MAY-2018 10:33	S36501
L4	127a010	868183255010	HEXOTP_50	07-MAY-2018 11:02	S36502
L5	127a011	868183255011	HEXOTP_100	07-MAY-2018 11:31	S36503
L6	127a012	868183255012	HEXOTP_200	07-MAY-2018 12:00	S36504

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
o-Terphenyl	51504	52818	52366	51353	49957	51322	AVRG		1.94E-5		51553	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.0000	0	10.000	2	25.000	2	50.000	0	100.00	-3	200.00	0

CB1 05/08/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 05/08/18

Reviewer: EAH

Date: 05/08/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300379 GCSV Soil: EPA 8015B

Inst : GC26A
 Calnum : 868183255001
 Units : mg/L

Name : MO_127
 Date : 07-MAY-2018 12:57
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	127a014	868183255014	MO_50	07-MAY-2018 12:57	S36946
L2	127a015	868183255015	MO_250	07-MAY-2018 13:26	S36948
L3	127a016	868183255016	MO_500	07-MAY-2018 13:54	S36949
L4	127a017	868183255017	MO_1000	07-MAY-2018 14:22	S36951
L5	127a018	868183255018	MO_2500	07-MAY-2018 14:51	S36926 (2X)
L6	127a019	868183255019	MO_5000	07-MAY-2018 15:19	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	29625	31690	31850	31577	30606	31761	AVRG		3.21E-5		31185	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-5	250.00	2	500.00	2	1000.0	1	2500.0	-2	5000.0	2

CB1 05/08/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 05/08/18

Reviewer: EAH

Date: 05/08/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300379 GCSV Soil: EPA 8015B

Inst : GC26A
 Calnum : 868219240001
 Units : mg/L

Name : DSL_152
 Date : 01-JUN-2018 09:14
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	152a006	868219240006	DSL_10	01-JUN-2018 09:14	S36610
L2	152a007	868219240007	DSL_100	01-JUN-2018 09:43	S36611
L3	152a008	868219240008	DSL_500	01-JUN-2018 10:11	S36613
L4	152a009	868219240009	DSL_1000	01-JUN-2018 10:39	S36615
L5	152a010	868219240010	DSL_5000	01-JUN-2018 11:07	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	52217	44927	47992	48618	47262	AVRG		2.07E-5		48203	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	8	100.00	-7	500.00	0	1000.0	1	5000.0	-2

CB1 06/01/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 06/01/18

Reviewer: EAH

Date: 06/01/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300379 GCSV Soil
EPA 8015B

Inst : GC26A
Calnum : 868219240001

Name : DSL_152
Cal Date : 01-JUN-2018

ICV 868219240012 (152a012 01-JUN-2018) stds: S35164

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	480.3	mg/L	-4	15	

Analyst: CB1

Date: 06/01/18

Reviewer: EAH

Date: 06/01/18

ENTHALPY INITIAL CALIBRATION FOR 300379 GCSV Soil: EPA 8015B

Inst : GC27A
 Calnum : 978075275001
 Units : mg/L

Name : HEXOTP_052
 Date : 21-FEB-2018 11:18
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	052a004	978075275004	HEX OTP_5	21-FEB-2018 11:18	S34657
L2	052a005	978075275005	HEX OTP_10	21-FEB-2018 11:43	S34659
L3	052a006	978075275006	HEX OTP_25	21-FEB-2018 12:08	S34661
L4	052a007	978075275007	HEX OTP_50	21-FEB-2018 12:33	S34663
L5	052a008	978075275008	HEX OTP_100	21-FEB-2018 12:59	S34664
L6	052a009	978075275009	HEX OTP_200	21-FEB-2018 13:24	S34665

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	526697	528936	536335	537130	539576	553234	AVRG		1.86E-6		536985	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.0000	-2	10.000	-1	25.000	0	50.000	0	100.00	0	200.00	3

WA1 02/22/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 02/22/18

Reviewer: EAH

Date: 02/22/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300379 GCSV Soil: EPA 8015B

Inst : GC27A
 Calnum : 978167410001
 Units : mg/L

Name : MO_116
 Date : 26-APR-2018 14:30
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	116a013	978167410013	MO_50	26-APR-2018 14:30	S34924
L2	116a014	978167410014	MO_250	26-APR-2018 14:56	S34925
L3	116a015	978167410015	MO_500	26-APR-2018 15:21	S34926
L4	116a016	978167410016	MO_1000	26-APR-2018 15:46	S34927
L5	116a019	978167410019	MO_2500	26-APR-2018 17:01	S34923 (2X)
L6	116a020	978167410020	MO_5000	26-APR-2018 17:26	S34923

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	277005	319984	324906	337867	337284	329366	AVRG		3.11E-6		321069	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-14	250.00	0	500.00	1	1000.0	5	2500.0	5	5000.0	3

WA1 04/27/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 04/27/18

Reviewer: EAH

Date: 04/27/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300379 GCSV Soil: EPA 8015B

Inst : GC27A
 Calnum : 978168840001
 Units : mg/L

Name : DSL_117
 Date : 27-APR-2018 11:21
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	117a006	978168840006	DSL_10	27-APR-2018 11:21	S36610
L2	117a007	978168840007	DSL_100	27-APR-2018 11:46	S36611
L3	117a008	978168840008	DSL_500	27-APR-2018 12:11	S36613
L4	117a009	978168840009	DSL_1000	27-APR-2018 12:36	S36615
L5	117a010	978168840010	DSL_5000	27-APR-2018 13:01	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	526583	461278	471305	470589	471567	AVRG		2.08E-6		480265	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	10	100.00	-4	500.00	-2	1000.0	-2	5000.0	-2

WA1 04/27/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 04/27/18

Reviewer: EAH

Date: 04/27/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300379 GCSV Soil
EPA 8015B

Inst : GC27A
Calnum : 978168840001

Name : DSL_117
Cal Date : 27-APR-2018

ICV 978168840012 (117a012 27-APR-2018) stds: S35164

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	476.1	mg/L	-5	15	

Analyst: WA1

Date: 04/27/18 *

Reviewer: EAH

Date: 04/27/18 *

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 868235022018 File : 163a018 Time : 12-JUN-2018 16:15
 Standards: S36227

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	868219240001	01-JUN-2018	48203	49279	1000	1022	mg/L	2	15	
o-Terphenyl	868183255002	07-MAY-2018	51553	61145	50.00	59.30	mg/L	19	15	c+

WA1 06/12/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/12/18 Reviewer: EAH Date: 06/13/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
 Seqnum : 868235022038 File : 163a038 Time : 13-JUN-2018 01:38
 Standards: S36757

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	868219240001	01-JUN-2018	48203	50171	500.0	520.4	mg/L	4	15	
o-Terphenyl	868183255002	07-MAY-2018	51553	61334	50.00	59.49	mg/L	19	15	c+

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
 Seqnum : 868235022039 File : 163a039 Time : 13-JUN-2018 02:06
 Standards: S36833

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	868183255001	07-MAY-2018	31185	34092	500.0	546.6	mg/L	9	15	
o-Terphenyl	868183255002	07-MAY-2018	51553	54742	50.00	53.09	mg/L	6	15	

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_250 IDF : 1.0
 Seqnum : 868236461009.1 File : 164a009 Time : 13-JUN-2018 09:42
 Standards: S36285

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868219240001	01-JUN-2018	48203	50234	250.0	260.5	mg/L	4	15	
o-Terphenyl	868183255002	07-MAY-2018	51553	59625	50.00	57.83	mg/L	16	15	c+

CB1 06/13/18 : Corrected automatically drawn baseline.

CB1: 06/13/18 * WA1: 06/13/18 EAH: 06/13/18

+ = high bias c = CCV

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
 Seqnum : 868236461020 File : 164a020 Time : 13-JUN-2018 15:05
 Standards: S36757

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	868219240001	01-JUN-2018	48203	50269	500.0	521.4	mg/L	4	15	
o-Terphenyl	868183255002	07-MAY-2018	51553	60442	50.00	58.62	mg/L	17	15	c+

WA1 06/13/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 978235089043 File : 163a043 Time : 13-JUN-2018 02:24
 Standards: S36227

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978168840001	27-APR-2018	480265	493679	1000	1028	mg/L	3	15	
o-Terphenyl	978075275001	21-FEB-2018	536985	627680	50.00	58.44	mg/L	17	15	c+

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978235089044 File : 163a044 Time : 13-JUN-2018 02:49
 Standards: S36833

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978167410001	26-APR-2018	321069	324946	500.0	506.0	mg/L	1	15	
o-Terphenyl	978075275001	21-FEB-2018	536985	587917	50.00	54.74	mg/L	9	15	

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : DSL_500 IDF : 1.0
 Seqnum : 978235089052 File : 163a052 Time : 13-JUN-2018 09:27
 Standards: S36757

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978168840001	27-APR-2018	480265	492863	500.0	513.1	mg/L	3	15	
o-Terphenyl	978075275001	21-FEB-2018	536985	609892	50.00	56.79	mg/L	14	15	

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : DSL_250 IDF : 1.0
 Seqnum : 978235089066 File : 163a066 Time : 13-JUN-2018 15:34
 Standards: S36285

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978168840001	27-APR-2018	480265	473439	250.0	246.4	mg/L	-1	15	
o-Terphenyl	978075275001	21-FEB-2018	536985	562633	50.00	52.39	mg/L	5	15	

WA1 06/13/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/13/18 Reviewer: EAH Date: 06/14/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978235089067 File : 163a067 Time : 13-JUN-2018 15:59
 Standards: S36833

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978167410001	26-APR-2018	321069	333215	500.0	518.9	mg/L	4	15	
o-Terphenyl	978075275001	21-FEB-2018	536985	597150	50.00	55.60	mg/L	11	15	

WA1 06/13/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/13/18 Reviewer: EAH Date: 06/14/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868183255

Instrument : GC26A Begun : 05/07/18 06:15
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	127a001	IB				05/07/18 06:15	1.0	
002	127a002	IB				05/07/18 06:43	1.0	
003	127a003	IB				05/07/18 07:11	1.0	
004	127a004	IB				05/07/18 07:39	1.0	
005	127a005	X	CMARKER			05/07/18 08:07	1.0	1
006	127a006	IB	CALIB			05/07/18 09:07	1.0	
007	127a007	ICAL	HEXOTP_5			05/07/18 09:35	1.0	2
008	127a008	ICAL	HEXOTP_10			05/07/18 10:04	1.0	3
009	127a009	ICAL	HEXOTP_25			05/07/18 10:33	1.0	4
010	127a010	ICAL	HEXOTP_50			05/07/18 11:02	1.0	5
011	127a011	ICAL	HEXOTP_100			05/07/18 11:31	1.0	6
012	127a012	ICAL	HEXOTP_200			05/07/18 12:00	1.0	7
013	127a013	IB	CALIB			05/07/18 12:28	1.0	
014	127a014	ICAL	MO_50			05/07/18 12:57	1.0	8
015	127a015	ICAL	MO_250			05/07/18 13:26	1.0	9
016	127a016	ICAL	MO_500			05/07/18 13:54	1.0	10
017	127a017	ICAL	MO_1000			05/07/18 14:22	1.0	11
018	127a018	ICAL	MO_2500			05/07/18 14:51	1.0	12
019	127a019	ICAL	MO_5000			05/07/18 15:19	1.0	12
020	127a020	IB	CALIB			05/07/18 15:47	1.0	
021	127a021	CMARKER	C8-C50			05/07/18 16:15	1.0	13
022	127a022	IB	CALIB			05/07/18 16:44	1.0	

CB1 05/08/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 22.

Standards used: 1=S36439 2=S36499 3=S36500 4=S36501 5=S36502 6=S36503 7=S36504 8=S36946 9=S36948 10=S36949 11=S36951
 12=S36926 13=S34578

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868235022

Instrument : GC26A
 Method : EPA 8015B

Begun : 06/12/18 05:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	163a001	IB					06/12/18 05:02	1.0	
002	163a002	X	CMARKER				06/12/18 05:29	1.0	1
003	163a003	CCV	DSL_500				06/12/18 05:57	1.0	2
004	163a004	CCV	MO_500				06/12/18 06:26	1.0	3
005	163a005	SAMPLE	300467-001		Soil	260369	06/12/18 07:15	1.0	
006	163a006	IB					06/12/18 07:44	1.0	
007	163a007	SAMPLE	300394-013	S	Soil	260369	06/12/18 10:26	1.0	
008	163a008	SAMPLE	300394-019	S	Soil	260369	06/12/18 10:53	1.0	
009	163a009	SAMPLE	300454-001	S	Soil	260369	06/12/18 11:21	1.0	
010	163a010	SAMPLE	300444-001		Water	260379	06/12/18 12:02	1.0	
011	163a011	SAMPLE	300471-001		Water	260379	06/12/18 12:30	1.0	
012	163a012	IB					06/12/18 13:27	1.0	
013	163a013	BLANK	QC935448		Water	260389	06/12/18 13:54	1.0	
014	163a014	BS	QC935449		Water	260389	06/12/18 14:23	1.0	
015	163a015	BSD	QC935450		Water	260389	06/12/18 14:51	1.0	
016	163a016	SAMPLE	300521-001		Water	260389	06/12/18 15:19	1.0	
017	163a017	BSD	QC935450	S	Water	260389	06/12/18 15:47	1.0	
018	163a018	CCV	DSL_1000				06/12/18 16:15	1.0	4
019	163a019	CCV	MO_500				06/12/18 16:43	1.0	3
020	163a020	X	CMARKER				06/12/18 17:12	1.0	1
021	163a021	BLANK	QC935448	S	Water	260389	06/12/18 17:40	1.0	
022	163a022	BS	QC935449	S	Water	260389	06/12/18 18:08	1.0	
023	163a023	SAMPLE	300521-001	S	Water	260389	06/12/18 18:37	1.0	
024	163a024	BLANK	QC935537		Soil	260411	06/12/18 19:05	1.0	
025	163a025	LCS	QC935538		Soil	260411	06/12/18 19:33	1.0	
026	163a026	MSS	300379-005		Soil	260411	06/12/18 20:01	1.0	
027	163a027	X	QC935539		Soil	260411	06/12/18 20:30	1.0	
028	163a028	MSD	QC935540		Soil	260411	06/12/18 20:58	1.0	
029	163a029	SAMPLE	300379-001		Soil	260411	06/12/18 21:26	1.0	
030	163a030	SAMPLE	300379-002		Soil	260411	06/12/18 21:54	1.0	
031	163a031	IB					06/12/18 22:22	1.0	
032	163a032	SAMPLE	300379-003		Soil	260411	06/12/18 22:50	1.0	
033	163a033	SAMPLE	300379-004		Soil	260411	06/12/18 23:18	1.0	
034	163a034	SAMPLE	300379-006		Soil	260411	06/12/18 23:46	1.0	
035	163a035	SAMPLE	300379-007		Soil	260411	06/13/18 00:15	1.0	
036	163a036	SAMPLE	300379-008		Soil	260411	06/13/18 00:43	1.0	
037	163a037	IB					06/13/18 01:10	1.0	
038	163a038	CCV	DSL_500				06/13/18 01:38	1.0	2
039	163a039	CCV	MO_500				06/13/18 02:06	1.0	3
040	163a040	X	CMARKER				06/13/18 02:34	1.0	1

CB1 06/12/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 13.

WA1 06/12/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 14 through 20.

CB1 06/13/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 21 through 40.

Standards used: 1=S36439 2=S36757 3=S36833 4=S36227

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868236461

Instrument : GC26A
 Method : EPA 8015B

Begun : 06/13/18 05:01
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	164a001	IB					06/13/18 05:01	1.0		
002	164a002	X	CMARKER				06/13/18 05:29	1.0	1	
003	164a003	CCV	DSL_500				06/13/18 05:58	1.0	2	
004	164a004	CCV	MO_500				06/13/18 06:26	1.0	3	
005	164a005	SAMPLE	300455-006	S	Soil	260411	06/13/18 07:46	1.0		3:BUNKC:12-40=11000
006	164a006	SAMPLE	300455-015	S	Soil	260411	06/13/18 08:14	3.0		2:BUNKC:12-40=6600
007	164a007	SAMPLE	300439-007		Soil	260411	06/13/18 08:43	2.0		
008	164a008	IB					06/13/18 09:14	1.0		
009	164a009	CCV	DSL_250				06/13/18 09:42	1.0	4	
010	164a010	CCV	MO_500				06/13/18 10:10	1.0	3	
011	164a011	X	CMARKER				06/13/18 10:38	1.0	1	
012	164a012	SAMPLE	300523-001	S	Soil	260328	06/13/18 11:07	1.0		
013	164a013	SAMPLE	300523-002	S	Soil	260328	06/13/18 11:36	1.0		
014	164a014	SAMPLE	300523-003	S	Soil	260328	06/13/18 12:05	1.0		
015	164a015	SAMPLE	300478-002		Water	260379	06/13/18 12:34	1.0		
016	164a016	SAMPLE	300540-001		Water	260379	06/13/18 13:04	1.0		
017	164a017	SAMPLE	300560-001		Water	260379	06/13/18 13:33	1.0		
018	164a018	SAMPLE	300598-001		Water	260379	06/13/18 14:03	1.0		
019	164a019	MS	QC935539		Soil	260411	06/13/18 14:30	1.0		
020	164a020	CCV	DSL_500				06/13/18 15:05	1.0	2	
021	164a021	CCV	MO_500				06/13/18 15:35	1.0	3	
022	164a022	X	CMARKER				06/13/18 16:03	1.0	1	
023	164a023	IB					06/13/18 18:28	1.0		
024	164a024	IB	CALIB				06/13/18 18:57	1.0		
025	164a025	ICAL	HEXOTP_5				06/13/18 19:26	1.0	5	
026	164a026	ICAL	HEXOTP_10				06/13/18 19:56	1.0	6	
027	164a027	ICAL	HEXOTP_25				06/13/18 20:25	1.0	7	
028	164a028	ICAL	HEXOTP_50				06/13/18 20:54	1.0	8	
029	164a029	ICAL	HEXOTP_100				06/13/18 21:23	1.0	9	
030	164a030	ICAL	HEXOTP_200				06/13/18 21:52	1.0	10	
031	164a031	IB	CALIB				06/13/18 22:20	1.0		
032	164a032	CMARKER	C8-C40				06/13/18 22:49	1.0	1	
033	164a033	IB	CALIB				06/13/18 23:18	1.0		

CB1 06/14/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 33.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978075275

Instrument : GC27A Begun : 02/21/18 06:35
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	052a001	IB				02/21/18 06:35	1.0		
002	052a002	IB				02/21/18 10:28	1.0		
003	052a003	IB	CALIB			02/21/18 10:53	1.0		
004	052a004	ICAL	HEX OTP_5			02/21/18 11:18	1.0	1	
005	052a005	ICAL	HEX OTP_10			02/21/18 11:43	1.0	2	
006	052a006	ICAL	HEX OTP_25			02/21/18 12:08	1.0	3	
007	052a007	ICAL	HEX OTP_50			02/21/18 12:33	1.0	4	
008	052a008	ICAL	HEX OTP_100			02/21/18 12:59	1.0	5	
009	052a009	ICAL	HEX OTP_200			02/21/18 13:24	1.0	6	
010	052a010	IB	CALIB			02/21/18 13:49	1.0		
011	052a011	ICAL	DSL_10			02/21/18 14:14	1.0	7	
012	052a012	ICAL	DSL_100			02/21/18 14:39	1.0	8	
013	052a013	ICAL	DSL_500			02/21/18 15:05	1.0	9	
014	052a014	ICAL	DSL_1000			02/21/18 15:30	1.0	10	
015	052a015	ICAL	DSL_5000			02/21/18 15:55	1.0	11	
016	052a016	IB	CALIB			02/21/18 16:20	1.0		
017	052a017	ICV	DSL_500			02/21/18 16:46	1.0	12	
018	052a018	IB	CALIB			02/21/18 17:11	1.0		
019	052a019	ICAL	MO_50			02/21/18 17:36	1.0	13	
020	052a020	ICAL	MO_250			02/21/18 18:01	1.0	14	
021	052a021	ICAL	MO_500			02/21/18 18:27	1.0	15	
022	052a022	ICAL	MO_1000			02/21/18 18:52	1.0	16	
023	052a023	ICAL	MO_2500			02/21/18 19:17	1.0	17	
024	052a024	ICAL	MO_5000			02/21/18 19:42	1.0	17	
025	052a025	IB	CALIB			02/21/18 20:08	1.0		
026	052a026	CMARKER	C8-C50			02/21/18 20:33	1.0	18	4:BUNKC:10-40=14000
027	052a027	IB	CALIB			02/21/18 20:58	1.0		

WA1 02/22/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 27.

Standards used: 1=S34657 2=S34659 3=S34661 4=S34663 5=S34664 6=S34665 7=S34580 8=S34581 9=S34582 10=S34583 11=S34579
 12=S35164 13=S34924 14=S34925 15=S34926 16=S34927 17=S34923 18=S34578

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978167410

Instrument : GC27A
 Method : EPA 8015B

Begun : 04/26/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	116a001	IB				04/26/18 06:10	1.0	
002	116a002	X	CMARKER			04/26/18 06:35	1.0	1
003	116a003	CCV	DSL_500			04/26/18 07:00	1.0	2
004	116a004	CCV	MO_500			04/26/18 07:26	1.0	3
005	116a005	MDL	298735-004	Soil	258375	04/26/18 11:08	1.0	
006	116a006	MDL	298735-005	Soil	258375	04/26/18 11:34	1.0	
007	116a007	MDL	298735-006	Soil	258375	04/26/18 11:59	1.0	
008	116a008	CCV	DSL_250			04/26/18 12:24	1.0	4
009	116a009	CCV	MO_500			04/26/18 12:50	1.0	3
010	116a010	X	CMARKER			04/26/18 13:15	1.0	1
011	116a011	IB				04/26/18 13:40	1.0	
012	116a012	IB	CALIB			04/26/18 14:05	1.0	
013	116a013	ICAL	MO_50			04/26/18 14:30	1.0	5
014	116a014	ICAL	MO_250			04/26/18 14:56	1.0	6
015	116a015	ICAL	MO_500			04/26/18 15:21	1.0	7
016	116a016	ICAL	MO_1000			04/26/18 15:46	1.0	8
017	116a017	XICAL	MO_2500			04/26/18 16:11	1.0	9
018	116a018	IB				04/26/18 16:36	1.0	
019	116a019	ICAL	MO_2500			04/26/18 17:01	1.0	9
020	116a020	ICAL	MO_5000			04/26/18 17:26	1.0	9
021	116a021	IB	CALIB			04/26/18 17:51	1.0	
022	116a022	CMARKER	C8-C50			04/26/18 18:33	1.0	10
023	116a023	IB	CALIB			04/26/18 18:58	1.0	

WA1 04/26/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 10.

CB1 04/27/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 11 through 23.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978168840

Instrument : GC27A
 Method : EPA 8015B

Begun : 04/27/18 06:00
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	117a001	IB				04/27/18 06:00	1.0	
002	117a002	X	CMARKER			04/27/18 06:26	1.0	1
003	117a003	CCV	DSL_500			04/27/18 06:51	1.0	2
004	117a004	CCV	MO_500			04/27/18 07:17	1.0	3
005	117a005	IB	CALIB			04/27/18 10:50	1.0	
006	117a006	ICAL	DSL_10			04/27/18 11:21	1.0	4
007	117a007	ICAL	DSL_100			04/27/18 11:46	1.0	5
008	117a008	ICAL	DSL_500			04/27/18 12:11	1.0	6
009	117a009	ICAL	DSL_1000			04/27/18 12:36	1.0	7
010	117a010	ICAL	DSL_5000			04/27/18 13:01	1.0	8
011	117a011	IB	CALIB			04/27/18 13:27	1.0	
012	117a012	ICV	DSL_500			04/27/18 13:52	1.0	9
013	117a013	IB	CALIB			04/27/18 14:17	1.0	
014	117a014	CMARKER	C8-C50			04/27/18 14:43	1.0	10
015	117a015	IB	CALIB			04/27/18 15:08	1.0	
016	117a016	IB				04/27/18 16:24	1.0	
017	117a017	CCV	DSL_1000			04/27/18 16:49	1.0	11
018	117a018	CCV	MO_500			04/27/18 17:14	1.0	3
019	117a019	X	CMARKER			04/27/18 17:39	1.0	1
020	117a020	MDL	298735-007	Soil	258428	04/27/18 18:04	1.0	
021	117a021	MDL	298735-008	Soil	258428	04/27/18 18:29	1.0	
022	117a022	CCV	DSL_500			04/27/18 18:55	1.0	2
023	117a023	CCV	MO_500			04/27/18 19:20	1.0	3
024	117a024	X	CMARKER			04/27/18 19:45	1.0	1

CB1 04/27/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 4.

WA1 04/27/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 5 through 15.

CB1 04/30/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 16 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978235089

Instrument : GC27A
 Method : EPA 8015B

Begun : 06/12/18 06:09
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	163a001	IB					06/12/18 06:09	1.0	
002	163a002	X	CMARKER				06/12/18 06:34	1.0	1
003	163a003	CCV	DSL_500				06/12/18 06:59	1.0	2
004	163a004	CCV	MO_500				06/12/18 07:25	1.0	3
005	163a005	BLANK	QC935363	S	Soil	260369	06/12/18 10:20	1.0	
006	163a006	LCS	QC935364	S	Soil	260369	06/12/18 10:45	1.0	
007	163a007	SAMPLE	300413-014	S	Soil	260369	06/12/18 11:10	1.0	
008	163a008	SAMPLE	300413-010	S	Soil	260369	06/12/18 11:35	1.0	3:BUNKC:12-40=7700
009	163a009	SAMPLE	300413-005	S	Soil	260369	06/12/18 12:01	2.0	2:BUNKC:12-40=6400
010	163a010	IB					06/12/18 12:28	1.0	
011	163a011	CCV	DSL_1000				06/12/18 12:53	1.0	4
012	163a012	CCV	MO_500				06/12/18 13:18	1.0	3
013	163a013	X	CMARKER				06/12/18 13:44	1.0	1
014	163a014	BLANK	QC935403	S	Water	260379	06/12/18 14:09	1.0	
015	163a015	BS	QC935404	S	Water	260379	06/12/18 14:34	1.0	
016	163a016	BSD	QC935405	S	Water	260379	06/12/18 15:00	1.0	
017	163a017	SAMPLE	300394-025	S	Water	260379	06/12/18 15:25	1.0	3:BUNKC:10-40=15000
018	163a018	IB					06/12/18 15:50	1.0	
019	163a019	SAMPLE	300449-001		Soil	260411	06/12/18 16:16	1.0	
020	163a020	SAMPLE	300449-002		Soil	260411	06/12/18 16:41	1.0	
021	163a021	SAMPLE	300449-003		Soil	260411	06/12/18 17:07	1.0	
022	163a022	SAMPLE	300449-004		Soil	260411	06/12/18 17:32	1.0	
023	163a023	SAMPLE	300449-005		Soil	260411	06/12/18 17:58	1.0	
024	163a024	SAMPLE	300449-006		Soil	260411	06/12/18 18:23	1.0	
025	163a025	IB					06/12/18 18:48	1.0	
026	163a026	CCV	DSL_500				06/12/18 19:14	1.0	2
027	163a027	CCV	MO_500				06/12/18 19:39	1.0	3
028	163a028	X	CMARKER				06/12/18 20:04	1.0	1
029	163a029	BLANK	QC935613		Soil	260428	06/12/18 20:30	1.0	
030	163a030	LCS	QC935614		Soil	260428	06/12/18 20:55	1.0	
031	163a031	MSS	300379-020		Soil	260428	06/12/18 21:20	1.0	
032	163a032	MS	QC935615		Soil	260428	06/12/18 21:45	1.0	
033	163a033	MSD	QC935616		Soil	260428	06/12/18 22:10	1.0	
034	163a034	SAMPLE	300565-001		Soil	260428	06/12/18 22:36	10.0	sh
035	163a035	IB					06/12/18 23:01	1.0	
036	163a036	SAMPLE	300379-019		Soil	260428	06/12/18 23:26	1.0	
037	163a037	SAMPLE	300379-021		Soil	260428	06/12/18 23:52	1.0	
038	163a038	SAMPLE	300412-001		Soil	260428	06/13/18 00:17	1.0	
039	163a039	SAMPLE	300412-002		Soil	260428	06/13/18 00:43	1.0	
040	163a040	SAMPLE	300412-003		Soil	260428	06/13/18 01:08	1.0	
041	163a041	SAMPLE	300412-004		Soil	260428	06/13/18 01:33	1.0	
042	163a042	IB					06/13/18 01:59	1.0	
043	163a043	CCV	DSL_1000				06/13/18 02:24	1.0	4
044	163a044	CCV	MO_500				06/13/18 02:49	1.0	3
045	163a045	X	CMARKER				06/13/18 03:14	1.0	1
046	163a046	BLANK	QC935537	S	Soil	260411	06/13/18 06:46	1.0	
047	163a047	LCS	QC935538	S	Soil	260411	06/13/18 07:11	1.0	
048	163a048	SAMPLE	300455-003	S	Soil	260411	06/13/18 07:45	1.0	
049	163a049	SAMPLE	300455-012	S	Soil	260411	06/13/18 08:11	2.0	3:BUNKC:12-40=12000
050	163a050	SAMPLE	300439-006		Soil	260411	06/13/18 08:36	3.0	
051	163a051	IB					06/13/18 09:02	1.0	
052	163a052	CCV	DSL_500				06/13/18 09:27	1.0	2

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978235089

Instrument : GC27A
 Method : EPA 8015B

Begun : 06/12/18 06:09
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	163a053	CCV	MO_500				06/13/18 09:52	1.0	3
054	163a054	X	CMARKER				06/13/18 10:18	1.0	1
055	163a055	SAMPLE	300379-009		Soil	260428	06/13/18 10:54	1.0	
056	163a056	SAMPLE	300379-010		Soil	260428	06/13/18 11:19	1.0	
057	163a057	SAMPLE	300379-011		Soil	260428	06/13/18 11:45	1.0	
058	163a058	SAMPLE	300379-012		Soil	260428	06/13/18 12:10	1.0	
059	163a059	SAMPLE	300379-013		Soil	260428	06/13/18 12:35	1.0	
060	163a060	SAMPLE	300379-014		Soil	260428	06/13/18 13:01	1.0	
061	163a061	SAMPLE	300379-015		Soil	260428	06/13/18 13:26	1.0	
062	163a062	SAMPLE	300379-016		Soil	260428	06/13/18 13:52	1.0	
063	163a063	SAMPLE	300379-017		Soil	260428	06/13/18 14:17	1.0	
064	163a064	SAMPLE	300379-018		Soil	260428	06/13/18 14:43	1.0	
065	163a065	IB					06/13/18 15:08	1.0	
066	163a066	CCV	DSL_250				06/13/18 15:34	1.0	5
067	163a067	CCV	MO_500				06/13/18 15:59	1.0	3
068	163a068	X	CMARKER				06/13/18 16:25	1.0	1
069	163a069	CHECK	TANK				06/13/18 17:44	1.0	
070	163a070	CHECK	TANK				06/13/18 18:09	1.0	
071	163a071	BLANK	QC935770		Soil	260465	06/13/18 18:35	1.0	
072	163a072	LCS	QC935771		Soil	260465	06/13/18 19:00	1.0	
073	163a073	SAMPLE	300497-033	S	Soil	260454	06/13/18 19:26	2.0	
074	163a074	SAMPLE	300497-034	S	Soil	260454	06/13/18 19:51	2.0	3:BUNKC:12-40=6500
075	163a075	MSS	300482-001		Soil	260465	06/13/18 20:17	3.0	2:BUNKC:12-40=10000
076	163a076	MS	QC935772		Soil	260465	06/13/18 20:42	3.0	2:BUNKC:12-40=10000
077	163a077	MSD	QC935773		Soil	260465	06/13/18 21:07	3.0	2:BUNKC:12-40=9600
078	163a078	IB					06/13/18 21:32	1.0	
079	163a079	BLANK	QC935770	S	Soil	260465	06/13/18 21:58	1.0	
080	163a080	LCS	QC935771	S	Soil	260465	06/13/18 22:23	1.0	
081	163a081	SAMPLE	300490-001	S	Miscell.	260465	06/13/18 22:48	1.0	
082	163a082	SAMPLE	300600-005		Soil	260465	06/13/18 23:14	1.0	
083	163a083	SAMPLE	300600-010		Soil	260465	06/13/18 23:39	1.0	
084	163a084	SAMPLE	300500-001		Soil	260465	06/14/18 00:05	2.0	
085	163a085	SAMPLE	300500-002		Soil	260465	06/14/18 00:30	10.0	
086	163a086	IB					06/14/18 00:56	1.0	
087	163a087	CCV	DSL_500				06/14/18 01:21	1.0	2
088	163a088	CCV	MO_500				06/14/18 01:47	1.0	3
089	163a089	X	CMARKER				06/14/18 02:12	1.0	1
090	163a090	IB					06/14/18 02:38	1.0	
091	163a091	IB	CALIB				06/14/18 03:03	1.0	
092	163a092	ICAL	HEX OTP_5				06/14/18 03:28	1.0	6
093	163a093	ICAL	HEX OTP_10				06/14/18 03:54	1.0	7
094	163a094	ICAL	HEX OTP_25				06/14/18 04:19	1.0	8
095	163a095	ICAL	HEX OTP_50				06/14/18 04:44	1.0	9
096	163a096	ICAL	HEX OTP_100				06/14/18 05:10	1.0	10
097	163a097	ICAL	HEX OTP_200				06/14/18 05:35	1.0	11
098	163a098	IB	CALIB				06/14/18 06:01	1.0	
099	163a099	CMARKER	C8-C50				06/14/18 06:27	1.0	12
100	163a100	IB	CALIB				06/14/18 06:52	1.0	
101	163a101	CCV	DSL_250				06/14/18 07:27	1.0	5
102	163a102	CCV	MO_500				06/14/18 07:53	1.0	3
103	163a103	SAMPLE	300487-001		Soil	260465	06/14/18 08:36	5.0	
104	163a104	SAMPLE	300476-001		Soil	260465	06/14/18 09:01	5.0	

SAMPLE PREPARATION SUMMARY

Batch # : 260411
 Started By : JCT
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 12-JUN-2018 09:43
 Spike #2 ID : S37163

Analysis : TEH
 Finished By : JCT
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300379-001		Soil	50.25	5	1	0.0995		1				TEHM	Transferred weight from SA2405
300379-002		Soil	50.22	5	1	0.09956		1				TEHM	Transferred weight from SA2406
300379-003		Soil	50.26	5	1	0.09948		1				TEHM	Transferred weight from SA2407
300379-004		Soil	50.18	5	1	0.09964		1				TEHM	Transferred weight from SA2408
300379-005		Soil	50	5	1	0.1000		1				TEHM	Transferred weight from SA2409
300379-006		Soil	49.91	5	1	0.1002		1				TEHM	Transferred weight from SA2412
300379-007		Soil	50.16	5	1	0.09968		1				TEHM	Transferred weight from SA2413
300379-008		Soil	49.82	5	1	0.1004		1				TEHM	Transferred weight from SA2414
300439-006		Soil	49.78	5	1	0.1004		1				TEHM	Transferred weight from SA2415
300439-007		Soil	49.75	5	1	0.1005		1				TEHM	Transferred weight from SA2416
300449-001		Soil	50.14	5	1	0.09972		1				TEHM	Transferred weight from SA2417
300449-002		Soil	49.86	5	1	0.1003		1				TEHM	Transferred weight from SA2418
300449-003		Soil	49.96	5	1	0.1001		1				TEHM	Transferred weight from SA2419
300449-004		Soil	49.94	5	1	0.1001		1				TEHM	Transferred weight from SA2420
300449-005		Soil	49.94	5	1	0.1001		1				TEHM	Transferred weight from SA2421
300449-006		Soil	49.91	5	1	0.1002		1				TEHM	Transferred weight from SA2422
300455-003		Soil	49.89	5	1	0.1002		1			3630	TEHM	See comment 1 below
300455-006		Soil	50.03	5	1	0.09994		1			3630	TEHM	comp of 300455-004, 5 @120g
300455-012		Soil	49.91	5	1	0.1002		1			3630	TEHM	comp of 300455-009-011 @ 80g
300455-015		Soil	49.95	5	1	0.1001		1			3630	TEHM	See comment 2 below
QC935537	BLANK	Soil	50	5	1	0.1000		1			3630		
QC935538	LCS	Soil	50	5	1	0.1000		1	1		3630		
QC935539	MS	Soil	49.88	5	1	0.1002		1	1				Transferred weight from SA2410
QC935540	MSD	Soil	50.29	5	1	0.09942		1	1				Transferred weight from SA2411

Comment 1: comp of 300455-001,2 @120g each
 Comment 2: comp of 300455-013, 14 @ 120g each

WA1 06/13/18 : OK to report jobs with high OTP MS per CAR.

Analyst: WA1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

LIMS Batch No: 260411
 LIMS Analysis TEHM
 Date Extracted: 6/12/13

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
300379-001	D	transferred	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
2		from scale	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
3		B-15	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
4			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
5			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		MSS
6			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
7			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
8			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
300439-006	F		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
7			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
300449-001			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
2			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
3			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
4			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
5			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
6			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
300455-003	comp	49.89	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____	X	comp of 300455-001, 2 @ 120g ea.
6		50.03	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____	X	comp of 300455-004, 5 @ 120g ea.
12		49.91	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____	X	comp of 300455-009-11 @ 80g ea.
15		49.95	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____	X	comp of 300455-013, 14 @ 120g ea.
MB QC 935537	NA	50.00	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____	X	
LCS	38	50.00	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____	X	
MS	39	49.88	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
MSD	40	50.29	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
			<input type="checkbox"/> 5.0 <input type="checkbox"/> _____		WMA 6/13/18

MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-15 Has been calibrated? Yes No

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄
1.0 mL of Surrogate solution was added to all samples
1.0 mL of Spike solution was added to all spikes
 1:1 CH₂Cl₂ (lot# EMS3063):Acetone (lot# FC131819) was added to all
 Solvent added at (time) 9:43
 Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to final volume in boiling H₂O bath
 Relinquished to TEH Department

Mfg & Lot # / LIMS # / Time	Date/Initials
EM16I285202	JCT 6/12/13
18B2156592	
S37162C	
S37163D	
EM18B2156592	

[Signature] 6/12/13 Continued from page 7
 Extraction Chemist / Date Continued on page

[Signature] 6/13/18
 Reviewed by / Date

Prep Chemist: JCT
 Cleanup Date: 6/12/18

Benchbook # **BK 4267**
 Page 19

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
300455-003	260411	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	
6		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	
12		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	
15		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	
5 MB QC935537		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	
LCS 1 8		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
10		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
15		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
20		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
25		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
30		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	WMA 6/13/18

Extracts were cleaned up using C&T assembled 1.0 g columns
 Extracts were cleaned up using g cartridges
 Extracts were eluted with 4.0 mL CH₂Cl₂
 Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
<u>4040640</u>	<u>JCT 6/12/18</u>
<u>EM58068</u>	<u>JCT</u>

[Signature] 6/12/18 Continued from page 7 [Signature] 6/13/18
 Extraction Chemist / Date Continued on page Reviewed by / Date

SAMPLE PREPARATION SUMMARY

Batch # : 260428
 Started By : AS1
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 12-JUN-2018 14:01
 Spike #2 ID : S37163

Analysis : TEHM
 Finished By : AS1
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300379-009		Soil	49.97	5	1	0.1001		1				TEHM	Transferred weight from SA2423
300379-010		Soil	50.01	5	1	0.09998		1				TEHM	Transferred weight from SA2424
300379-011		Soil	49.9	5	1	0.1002		1				TEHM	Transferred weight from SA2425
300379-012		Soil	49.9	5	1	0.1002		1				TEHM	Transferred weight from SA2426
300379-013		Soil	49.91	5	1	0.1002		1				TEHM	Transferred weight from SA2427
300379-014		Soil	50.16	5	1	0.09968		1				TEHM	Transferred weight from SA2428
300379-015		Soil	49.81	5	1	0.1004		1				TEHM	Transferred weight from SA2429
300379-016		Soil	49.96	5	1	0.1001		1				TEHM	Transferred weight from SA2430
300379-017		Soil	50.25	5	1	0.0995		1				TEHM	Transferred weight from SA2431
300379-018		Soil	49.82	5	1	0.1004		1				TEHM	Transferred weight from SA2432
300379-019		Soil	49.93	5	1	0.1001		1				TEHM	Transferred weight from SA2433
300379-020		Soil	49.9	5	1	0.1002		1				TEHM	Transferred weight from SA2434
300379-021		Soil	50.36	5	1	0.09929		1				TEHM	Transferred weight from SA2437
300412-001		Soil	50.14	5	1	0.09972		1				TEHM	Transferred weight from SA2438
300412-002		Soil	49.88	5	1	0.1002		1				TEHM	Transferred weight from SA2439
300412-003		Soil	50.24	5	1	0.09952		1				TEHM	Transferred weight from SA2440
300412-004		Soil	49.71	5	1	0.1006		1				TEHM	Transferred weight from SA2441
300565-001		Soil	50.09	5	1	0.09982		1				TEHM	Transferred weight from SA2442
QC935613	BLANK	Soil	50	5	1	0.1000		1				TEHM	
QC935614	LCS	Soil	50	5	1	0.1000		1	1			TEHM	
QC935615	MS	Soil	49.84	5	1	0.1003		1	1			TEHM	Transferred weight from SA2435
QC935616	MSD	Soil	50.03	5	1	0.09994		1	1			TEHM	Transferred weight from SA2436

Analyst: WA1

Date: 06/13/18

Reviewer: EAH

Date: 06/13/18

LIMS Batch No: 260428
 LIMS Analysis: TEHM
 Date Extracted: 6/12/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

LIM
 LI
 Da

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
300379-009	D	transferred from B-15	5.0 <input type="checkbox"/>		
10			5.0 <input type="checkbox"/>		
11			5.0 <input type="checkbox"/>		
12			5.0 <input type="checkbox"/>		
13			5.0 <input type="checkbox"/>		
14			5.0 <input type="checkbox"/>		
15			5.0 <input type="checkbox"/>		
16			5.0 <input type="checkbox"/>		
17			5.0 <input type="checkbox"/>		
18			5.0 <input type="checkbox"/>		
19			5.0 <input type="checkbox"/>		
20			5.0 <input type="checkbox"/>		MSS
21			5.0 <input type="checkbox"/>		
300412-001	D		5.0 <input type="checkbox"/>		
2			5.0 <input type="checkbox"/>		
3			5.0 <input type="checkbox"/>		
4			5.0 <input type="checkbox"/>		
300565-001	B		5.0 <input type="checkbox"/>		
MBQC935613	N/A	50.00	5.0 <input type="checkbox"/>		
20			5.0 <input type="checkbox"/>		
MS		50.00	5.0 <input type="checkbox"/>		
MSD		transferred from B-15	5.0 <input type="checkbox"/>		
			5.0 <input type="checkbox"/>		
			5.0 <input type="checkbox"/>		
			5.0 <input type="checkbox"/>		

MS/MSD not included due to: insufficient volume, or other (reason) _____

Balance ID: B-15 Has been calibrated? Yes No

Mfg & Lot # / LIMS # / Time Date/Initials

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄
 1.0 mL of Surrogate solution was added to all samples
 1.0 mL of Spike solution was added to all spikes
 1:1 CH₂Cl₂ (lot# EM58068):Acetone (lot# FC181819) was added to all
 Solvent added at (time) 140
 Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to final volume in boiling H₂O bath
 Relinquished to TEH Department

EM16I285202	ASI 6/12/18
EM18B2156592	
S37162C	
S37163D	
EM18B2156592	

[Signature] 6/12/18
 Extraction Chemist / Date

Continued from page 7
 Continued on page _____

[Signature] 6/13/18
 Reviewed by / Date

Laboratory Job Number 300379

ANALYTICAL REPORT

Semivolatile Organics by GC/MS SIM

Matrix: Water

Semivolatile Organics by GC/MS SIM

Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1SB012[W]	Batch#:	260372
Lab ID:	300379-022	Sampled:	06/04/18
Matrix:	Water	Received:	06/05/18
Units:	ug/L	Prepared:	06/11/18
Diln Fac:	1.000	Analyzed:	06/12/18

Analyte	Result	RL	MDL
Naphthalene	0.4	0.1	0.02
Acenaphthylene	ND	0.1	0.02
Acenaphthene	ND	0.1	0.02
Fluorene	0.04 J	0.1	0.02
Phenanthrene	0.1	0.1	0.02
Anthracene	0.03 J	0.1	0.02
Fluoranthene	0.02 J	0.1	0.02
Pyrene	0.03 J	0.1	0.02
Benzo(a)anthracene	ND	0.1	0.02
Chrysene	0.03 J	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.02
Benzo(a)pyrene	ND	0.1	0.02
Indeno(1,2,3-cd)pyrene	ND	0.1	0.02
Dibenz(a,h)anthracene	ND	0.1	0.02
Benzo(g,h,i)perylene	0.02 J	0.1	0.02

Surrogate	%REC	Limits
Nitrobenzene-d5	86	48-124
2-Fluorobiphenyl	80	51-120
Terphenyl-d14	26	25-120

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC935379	Batch#:	260372
Matrix:	Water	Prepared:	06/11/18
Units:	ug/L	Analyzed:	06/12/18

Analyte	Result	RL	MDL
Naphthalene	ND	0.1	0.02
Acenaphthylene	ND	0.1	0.02
Acenaphthene	ND	0.1	0.02
Fluorene	ND	0.1	0.02
Phenanthrene	ND	0.1	0.02
Anthracene	ND	0.1	0.02
Fluoranthene	ND	0.1	0.02
Pyrene	ND	0.1	0.02
Benzo(a)anthracene	ND	0.1	0.02
Chrysene	ND	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.02
Benzo(a)pyrene	ND	0.1	0.02
Indeno(1,2,3-cd)pyrene	ND	0.1	0.02
Dibenz(a,h)anthracene	ND	0.1	0.02
Benzo(g,h,i)perylene	ND	0.1	0.02

Surrogate	%REC	Limits
Nitrobenzene-d5	71	48-124
2-Fluorobiphenyl	88	51-120
Terphenyl-d14	94	25-120

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	300379	Location:	Riley Ave
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Matrix:	Water	Batch#:	260372
Units:	ug/L	Prepared:	06/11/18
Diln Fac:	1.000	Analyzed:	06/12/18

Type: BS Lab ID: QC935380

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	1.000	1.033	103	51-120
Pyrene	1.000	0.9142	91	60-120

Surrogate	%REC	Limits
Nitrobenzene-d5	83	48-124
2-Fluorobiphenyl	101	51-120
Terphenyl-d14	102	25-120

Type: BSD Lab ID: QC935381

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	1.000	1.048	105	51-120	1	48
Pyrene	1.000	0.9198	92	60-120	1	35

Surrogate	%REC	Limits
Nitrobenzene-d5	84	48-124
2-Fluorobiphenyl	101	51-120
Terphenyl-d14	101	25-120

RPD= Relative Percent Difference

Initial & Continuing Calibration Data

ENTHALPY DFTPP TUNE FOR 300379 MSSIM Water
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM IDF : 1.0
Seqnum : 528189186007 File : veb07 Time : 11-MAY-2018 11:43
Caltype : DFTPP/PEM

Standards: S36307

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	111070	38.21	
68	< 2% of mass 69	0	0.00	
69		125579	100.00	
70	< 2% of mass 69	667	0.53	
127	40% - 60% of mass 198	129032	44.39	
197	< 1% of mass 198	0	0.00	
198		290666	100.00	
199	5% - 9% of mass 198	19536	6.72	
275	10% - 30% of mass 198	77037	26.50	
365	> 1% of mass 198	7306	2.51	
441	Present, < mass 443	36554	75.77	
442	> 40% and < 100% of mass 198	247488	85.15	
443	17% - 23% of mass 442	48245	19.49	

JW1 05/11/18 [Decafluorotriphenylphosphine]: Picked or reassigned peak.

JW1 05/11/18 [4,4'-DDT]: Picked or reassigned peak.

Decafluorotriphenylphosphine: **m**

Analyst: JW1 Date: 05/11/18 Reviewer: TKM Date: 05/11/18

PEM Report

File Name : G:\msbna03\061218\VFC04.D
 Date Acquired : 12 Jun 2018 2:12 pm
 Sample Name : TUN,S36307
 Misc. Info : DFTPP/PEM
 Calib. Title : MSBNA03 BNA DFTPP/PEM
 Inst. Name : MSBNA03
 AcquisitionMeth: DFTPP03.M

Compound Name	Tailing Factor	RT	Area
Pentachlorophenol	1.820	5.13	495090
Benzidine	0.538	6.98	2431644
4,4'-DDT		7.99	1095167
% Breakdown: 4,4'-DDT	LIMIT <=20%	0%	PASS
Tailing: Pentachlorophenol	8270C <5.0	1.8	PASS
	8270D <=2	2	PASS
Tailing: Benzidine	8270C <3.0	0.5	PASS
	8270D <=2	1	PASS

ENTHALPY INITIAL CALIBRATION FOR 300379 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA03
 Calnum : 528189186001
 Units : ug/mL

Name : 3PAHSIM
 Date : 11-MAY-2018 12:02
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	veb08	528189186008	ICAL	11-MAY-2018 12:02	S36971
L2	veb09	528189186009	ICAL	11-MAY-2018 12:34	S36972
L3	veb10	528189186010	ICAL	11-MAY-2018 13:08	S36973
L4	veb11	528189186011	ICAL	11-MAY-2018 13:40	S36974
L5	veb12	528189186012	ICAL	11-MAY-2018 14:12	S36976
L6	veb13	528189186013	ICAL	11-MAY-2018 14:45	S36977
L7	veb14	528189186014	ICAL	11-MAY-2018 15:17	S36978

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r ² %RSD	Max %RSD	Min RF	Min r ²	Flg
Naphthalene	0.9309	0.9593	0.9775	0.9747	0.9430	0.8912	0.8908	AVRG		1.06590		0.9382	4	15	0.05	0.99	
Acenaphthylene	1.6081	1.6472	1.6759	1.6892	1.6573	1.5429	1.5049	AVRG		0.61807		1.6179	4	15	0.05	0.99	
Acenaphthene	0.9218	0.9535	0.9873	0.9877	0.9849	0.9161	0.9270	AVRG		1.04815		0.9541	3	15	0.05	0.99	
Fluorene	1.1744	1.2166	1.2535	1.2290	1.1967	1.1240	1.1008	AVRG		0.84389		1.1850	5	15	0.05	0.99	
Phenanthrene	0.9893	1.0001	1.0283	1.0273	0.9999	0.9087	0.9109	AVRG		1.01974		0.9806	5	15	0.05	0.99	
Anthracene	0.9811	0.9994	1.0239	1.0109	0.9819	0.9018	0.8967	AVRG		1.03006		0.9708	5	15	0.05	0.99	
Fluoranthene	1.1407	1.1541	1.1866	1.1836	1.1352	1.0251	1.0244	AVRG		0.89177		1.1214	6	15	0.05	0.99	
Pyrene	1.3486	1.3666	1.3972	1.3870	1.4018	1.2640	1.2723	AVRG		0.74171		1.3482	4	15	0.05	0.99	
Benzo(a)anthracene	1.2495	1.2430	1.2734	1.2935	1.2652	1.1310	1.1483	AVRG		0.81358		1.2291	5	15	0.05	0.99	
Chrysene	1.1114	1.1415	1.1963	1.2129	1.2146	1.0936	1.0886	AVRG		0.86861		1.1513	5	15	0.05	0.99	
Benzo(b)fluoranthene	1.2366	1.2524	1.2732	1.3173	1.2609	1.1568	1.1938	AVRG		0.80542		1.2416	4	15	0.05	0.99	
Benzo(k)fluoranthene	1.4264	1.4026	1.5105	1.4814	1.3485	1.3391	1.4312	AVRG		0.70425		1.4200	4	15	0.05	0.99	
Benzo(a)pyrene	1.0807	1.0909	1.1451	1.1967	1.1718	1.1043	1.1485	AVRG		0.88184		1.1340	4	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.1455	1.1766	1.2455	1.3118	1.3088	1.2674	1.3858	AVRG		0.79173		1.2631	7	15	0.05	0.99	
Dibenz(a,h)anthracene	0.8063	0.8173	0.8683	0.9193	0.9258	0.9174	1.0417	AVRG		1.11181		0.8994	9	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9563	0.9696	1.0090	1.0676	1.0536	1.0046	1.0554	AVRG		0.98367		1.0166	4	15	0.05	0.99	
Nitrobenzene-d5	0.4025	0.4184	0.4335	0.4369	0.4325	0.4115	0.4195	AVRG		2.36897		0.4221	3	15	0.05	0.99	
2-Fluorobiphenyl	1.4635	1.4653	1.4934	1.4884	1.4329	1.3234	1.2965	AVRG		0.70257		1.4233	6	15	0.05	0.99	
Terphenyl-d14	1.0908	1.1058	1.1503	1.1543	1.1561	1.0722	1.0917	AVRG		0.89500		1.1173	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.1000	-1	0.2000	2	0.5000	4	1.0000	4	2.0000	1	5.0000	-5	10.000	-5
Acenaphthylene	0.1000	-1	0.2000	2	0.5000	4	1.0000	4	2.0000	2	5.0000	-5	10.000	-7
Acenaphthene	0.1000	-3	0.2000	0	0.5000	3	1.0000	4	2.0000	3	5.0000	-4	10.000	-3
Fluorene	0.1000	-1	0.2000	3	0.5000	6	1.0000	4	2.0000	1	5.0000	-5	10.000	-7
Phenanthrene	0.1000	1	0.2000	2	0.5000	5	1.0000	5	2.0000	2	5.0000	-7	10.000	-7
Anthracene	0.1000	1	0.2000	3	0.5000	5	1.0000	4	2.0000	1	5.0000	-7	10.000	-8
Fluoranthene	0.1000	2	0.2000	3	0.5000	6	1.0000	6	2.0000	1	5.0000	-9	10.000	-9
Pyrene	0.1000	0	0.2000	1	0.5000	4	1.0000	3	2.0000	4	5.0000	-6	10.000	-6
Benzo(a)anthracene	0.1000	2	0.2000	1	0.5000	4	1.0000	5	2.0000	3	5.0000	-8	10.000	-7
Chrysene	0.1000	-3	0.2000	-1	0.5000	4	1.0000	5	2.0000	6	5.0000	-5	10.000	-5
Benzo(b)fluoranthene	0.1000	0	0.2000	1	0.5000	3	1.0000	6	2.0000	2	5.0000	-7	10.000	-4
Benzo(k)fluoranthene	0.1000	0	0.2000	-1	0.5000	6	1.0000	4	2.0000	-5	5.0000	-6	10.000	1
Benzo(a)pyrene	0.1000	-5	0.2000	-4	0.5000	1	1.0000	6	2.0000	3	5.0000	-3	10.000	1
Indeno(1,2,3-cd)pyrene	0.1000	-9	0.2000	-7	0.5000	-1	1.0000	4	2.0000	4	5.0000	0	10.000	10
Dibenz(a,h)anthracene	0.1000	-10	0.2000	-9	0.5000	-3	1.0000	2	2.0000	3	5.0000	2	10.000	16
Benzo(g,h,i)perylene	0.1000	-6	0.2000	-5	0.5000	-1	1.0000	5	2.0000	4	5.0000	-1	10.000	4
Nitrobenzene-d5	0.1000	-5	0.2000	-1	0.5000	3	1.0000	3	2.0000	2	5.0000	-3	10.000	-1
2-Fluorobiphenyl	0.1000	3	0.2000	3	0.5000	5	1.0000	5	2.0000	1	5.0000	-7	10.000	-9
Terphenyl-d14	0.1000	-2	0.2000	-1	0.5000	3	1.0000	3	2.0000	3	5.0000	-4	10.000	-2

JW1 05/11/18 [1,4-Dioxane]: Corrected automatically drawn baseline in all levels.

Analyst: JW1

Date: 05/11/18

Reviewer: TKM

Date: 05/11/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRGE=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300379 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528189186001

Name : 3PAHSIM
Cal Date : 11-MAY-2018

ICV 528189186015 (veb15 11-MAY-2018) stds: S36862

Analyte	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.000	1.045	ug/mL	5	30	
Acenaphthylene	1.000	1.121	ug/mL	12	30	
Acenaphthene	1.000	1.048	ug/mL	5	20	
Fluorene	1.000	1.088	ug/mL	9	30	
Phenanthrene	1.000	1.095	ug/mL	9	30	
Anthracene	1.000	1.063	ug/mL	6	30	
Fluoranthene	1.000	1.092	ug/mL	9	20	
Pyrene	1.000	1.108	ug/mL	11	30	
Benzo(a)anthracene	1.000	1.046	ug/mL	5	30	
Chrysene	1.000	1.055	ug/mL	6	30	
Benzo(b)fluoranthene	1.000	0.9943	ug/mL	-1	30	
Benzo(k)fluoranthene	1.000	1.021	ug/mL	2	30	
Benzo(a)pyrene	1.000	1.089	ug/mL	9	20	
Indeno(1,2,3-cd)pyrene	1.000	1.038	ug/mL	4	30	
Dibenz(a,h)anthracene	1.000	1.041	ug/mL	4	30	
Benzo(g,h,i)perylene	1.000	1.114	ug/mL	11	30	

Analyst: JW1

Date: 05/11/18

Reviewer: TKM

Date: 05/11/18

ENTHALPY CONTINUING CALIBRATION FOR 300379 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528235374005 File : vfc05 Time : 12-JUN-2018 14:29
 Cal : 528189186001 Caldate : 11-MAY-2018
 Standards: S36974

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	0.9382	0.9413	1.000	1.003	ug/mL	0	30	0.0500	
Acenaphthylene	1.6179	1.6749	1.000	1.035	ug/mL	4	30	0.0500	
Acenaphthene	0.9541	1.0948	1.000	1.148	ug/mL	15	20	0.0500	
Fluorene	1.1850	1.3046	1.000	1.101	ug/mL	10	30	0.0500	
Phenanthrene	0.9806	1.0426	1.000	1.063	ug/mL	6	30	0.0500	
Anthracene	0.9708	1.0080	1.000	1.038	ug/mL	4	30	0.0500	
Fluoranthene	1.1214	1.1996	1.000	1.070	ug/mL	7	20	0.0500	
Pyrene	1.3482	1.3297	1.000	0.9862	ug/mL	-1	30	0.0500	
Benzo(a)anthracene	1.2291	1.1991	1.000	0.9755	ug/mL	-2	30	0.0500	
Chrysene	1.1513	1.1596	1.000	1.007	ug/mL	1	30	0.0500	
Benzo(b)fluoranthene	1.2416	1.2212	1.000	0.9836	ug/mL	-2	30	0.0500	
Benzo(k)fluoranthene	1.4200	1.3703	1.000	0.9650	ug/mL	-3	30	0.0500	
Benzo(a)pyrene	1.1340	1.1100	1.000	0.9788	ug/mL	-2	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2631	1.3105	1.000	1.038	ug/mL	4	30	0.0500	
Dibenz(a,h)anthracene	0.8994	1.0548	1.000	1.173	ug/mL	17	30	0.0500	
Benzo(g,h,i)perylene	1.0166	1.0684	1.000	1.051	ug/mL	5	30	0.0500	
Nitrobenzene-d5	0.4221	0.3730	1.000	0.8835	ug/mL	-12	30	0.0500	
2-Fluorobiphenyl	1.4233	1.6163	1.000	1.136	ug/mL	14	30	0.0500	
Terphenyl-d14	1.1173	1.1068	1.000	0.9906	ug/mL	-1	30	0.0500	

JW1 06/12/18 [1,4-Dioxane]: Corrected automatically drawn baseline.

Analyst: JW1 Date: 06/12/18 Reviewer: LW Date: 06/12/18

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528235374

Date : 06/12/18
 Sequence : MSBNA03 vfc

Reference : vfc05
 Analyzed : 06/12/18 14:29

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+CCV/BS+CCV/LCS+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	25290	7.48	92963	9.12	53384	11.43	99409	13.39	90051	16.87	88403	18.61
		LOWER LIMIT	12645	6.98	46482	8.62	26692	10.93	49705	12.89	45026	16.37	44202	18.11
		UPPER LIMIT	50580	7.98	185926	9.62	106768	11.93	198818	13.89	180102	17.37	176806	19.11
005	CCV	CCV	25290	7.48	92963	9.12	53384	11.43	99409	13.39	90051	16.87	88403	18.61
006	SAMPLE	300409-008	22419	7.48	81818	9.11	48719	11.43	90910	13.39	87542	16.87	83846	18.61
007	SAMPLE	300409-009	21607	7.48	80429	9.11	48613	11.43	90148	13.39	85673	16.86	84364	18.61
008	SAMPLE	300491-005	22100	7.48	80904	9.12	50080	11.43	91266	13.39	84060	16.87	81614	18.61
009	BLANK	QC935379	23360	7.48	87128	9.11	53212	11.43	97027	13.39	90451	16.87	91239	18.61
010	BS	QC935380	23423	7.48	85929	9.11	50683	11.42	94176	13.38	86014	16.86	85914	18.61
011	BSD	QC935381	23145	7.48	84490	9.11	49934	11.43	92824	13.39	84959	16.86	85984	18.61
012	SAMPLE	300379-022	22894	7.48	82371	9.11	51407	11.43	91608	13.39	79258	16.86	79624	18.61
013	SAMPLE	300480-005	22706	7.48	83868	9.11	52323	11.42	93366	13.38	88355	16.87	81337	18.61

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528189186

Instrument : MSBNA03 Begun : 05/11/18 09:06
 Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv6, bna_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	veb01	IB	IB			05/11/18 09:06	1.0		?t
003	veb03	IB	IB			05/11/18 10:15	1.0		?t
004	veb04	TUN	DFTPP/PEM			05/11/18 10:40	1.0	1	
005	veb05	CCV	RTCHECK			05/11/18 11:00	1.0	2	1:BZBF=2.3
006	veb06	TUN	DFTPP/PEM			05/11/18 11:28	1.0	1	t
007	veb07	TUN	DFTPP/PEM			05/11/18 11:43	1.0	1	
008	veb08	ICAL	ICAL			05/11/18 12:02	1.0	3	
009	veb09	ICAL	ICAL			05/11/18 12:34	1.0	4	
010	veb10	ICAL	ICAL			05/11/18 13:08	1.0	5	
011	veb11	ICAL	ICAL			05/11/18 13:40	1.0	6	
012	veb12	ICAL	ICAL			05/11/18 14:12	1.0	2	
013	veb13	ICAL	ICAL			05/11/18 14:45	1.0	7	
014	veb14	ICAL	ICAL			05/11/18 15:17	1.0	8	
015	veb15	ICV	ICV			05/11/18 15:50	1.0	9	
016	veb16	TUN	DFTPP/PEM			05/11/18 16:24	1.0	1	
017	veb17	CCV	CCV			05/11/18 16:42	1.0	6	
018	veb18	LOD	218623-089	Water	258368	05/11/18 17:21	1.0	10	
019	veb19	LOD	218623-088	Water	258368	05/11/18 17:53	1.0	10	
020	veb20	LOD	209076-102	Soil	258329	05/11/18 18:25	1.0	10	
021	veb21	LOD	209076-103	Soil	258329	05/11/18 18:58	1.0	10	
022	veb22	LOD	209076-104	Soil	258329	05/11/18 19:30	1.0	10	
023	veb23	BLANK	QC926890	Soil	258206	05/11/18 20:02	1.0	10	
024	veb24	LOQ	298551-006	Soil	258047	05/11/18 20:35	1.0	10	
025	veb25	LOQ	298551-001	Water	258124	05/11/18 21:08	1.0	10	
026	veb26	MDL	298632-001	Soil	258206	05/11/18 21:41	1.0	10	
027	veb27	BLANK	QC931341	Soil	259346	05/11/18 22:14	1.0	10	
028	veb28	LCS	QC931342	Soil	259346	05/11/18 22:47	1.0	10	
029	veb29	BLANK	QC931546	Water	259395	05/11/18 23:20	1.0	10	
030	veb30	BS	QC931547	Water	259395	05/11/18 23:54	1.0	10	spk
031	veb31	BSD	QC931548	Water	259395	05/12/18 00:27	1.0	10	
032	veb32	SAMPLE	299490-005	Soil	259346	05/12/18 01:01	50.0	10	
033	veb33	MSS	299573-002	Soil	259346	05/12/18 01:34	10.0	10	
034	veb34	SAMPLE	299651-001	Water	259395	05/12/18 02:07	1.0	10	
035	veb35	SAMPLE	299360-008	Water	259109	05/12/18 02:42	2.0	10	high NT
036	veb36	SAMPLE	299348-005	Water	259020	05/12/18 03:14	4.0	10	high NT
037	veb37	CCV	CCV			05/12/18 03:49	1.0	6	

JW1 05/11/18 : Chemstation crashed, run 2 was lost.

JW1 05/11/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 15.

JW1 05/14/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 16 through 37.

Standards used: 1=S36307 2=S36976 3=S36971 4=S36972 5=S36973 6=S36974 7=S36977 8=S36978 9=S36862 10=S36018

Flags used: ?t=missing tune spk=5% spike rule t=tune failure

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528235374

Instrument : MSBNA03 Begun : 06/12/18 10:54
 Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv6, bna_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vfc01	IB	IB			06/12/18 10:54	1.0		?t
002	vfc02	IB	IB			06/12/18 11:27	1.0		?t
003	vfc03	TUN	DFTPP/PEM			06/12/18 11:52	1.0	1	t
004	vfc04	TUN	DFTPP/PEM			06/12/18 14:12	1.0	1	
005	vfc05	CCV	CCV			06/12/18 14:29	1.0	2	
006	vfc06	SAMPLE	300409-008	Soil	260362	06/12/18 15:06	1.0	3	
007	vfc07	SAMPLE	300409-009	Soil	260362	06/12/18 15:38	1.0	3	
008	vfc08	SAMPLE	300491-005	Soil	260362	06/12/18 16:10	1.0	3	
009	vfc09	BLANK	QC935379	Water	260372	06/12/18 16:42	1.0	3	
010	vfc10	BS	QC935380	Water	260372	06/12/18 17:14	1.0	3	
011	vfc11	BSD	QC935381	Water	260372	06/12/18 17:46	1.0	3	
012	vfc12	SAMPLE	300379-022	Water	260372	06/12/18 18:18	1.0	3	
013	vfc13	SAMPLE	300480-005	Soil	260362	06/12/18 18:50	500.0	3	high NT
014	vfc14	CCV	CCV			06/12/18 19:21	1.0	2	

JW1 06/13/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 14.

Standards used: 1=S36307 2=S36974 3=S36018

Flags used: ?t=missing tune t=tune failure

SAMPLE PREPARATION SUMMARY

Batch #	: 260372		Analysis	: 8270-SIM	
Started By	: RD1	Prep Date	: 11-JUN-2018 12:59	Finished By	: RD1
Method	: 3520C	SOP Version	: 8270-SIM_3520_rv7	Units	: mL
Spike #1 ID	: S36715	Spike #2 ID	: S37283		

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300379-022		Water	1050	1	1	0.0009524	7	1				8270-SIM	See comment 1 below
300453-013		Water	850	1	1	0.001176	7	1				8270-SIM	See comment 2 below
300453-014		Water	1000	1	1	0.001	7	1				8270-SIM	See comment 3 below
300560-001		Water	1000	1	1	0.001	7	1				8270-SIM	Prepped 12-JUN-2018 12:53
QC935379	BLANK	Water	1000	1	1	0.001		1				8270-SIM	
QC935380	BS	Water	1000	1	1	0.001		1	1			8270-SIM	
QC935381	BSD	Water	1000	1	1	0.001		1	1			8270-SIM	

Comment 1: ~4cm of sediment, very cloudy sample
 Comment 2: Prepped 12-JUN-2018 12:53; 1/4 inch sediment
 Comment 3: Prepped 12-JUN-2018 12:53; 1 inch sediment

JW1 06/13/18 : Matrix spikes were not performed for this analysis in batch 260372 due to insufficient sample amount.

Analyst: JW1 Date: 06/13/18 Reviewer: LW Date: 06/13/18

Laboratory Job Number 300379

ANALYTICAL REPORT

Wet Chemistry

Matrix: Soil

Percent Moisture Summary Report

Batch: 260351
 Date: 06/11/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
300379-021	11.28	17.96	16.88	84	16
300412-021	11.37	16.92	16.06	85	15
300412-022	11.31	18.40	17.39	86	14
300412-023	11.34	18.12	16.80	81	19
300412-025	11.05	17.35	16.37	84	16
300453-023	11.20	17.16	16.29	85	15
300453-024	11.06	17.59	16.58	85	15
300455-003	10.83	16.12	15.52	89	11
300455-006	11.24	16.62	16.11	91	9
300455-012	11.24	16.47	15.97	90	10
300455-015	10.85	16.31	15.75	90	10
300473-001	11.05	17.19	16.20	84	16
300473-002	10.86	16.85	16.08	87	13
300473-003	11.28	17.14	16.45	88	12
300482-001	11.05	18.04	17.26	89	11
300487-001	11.04	16.91	16.43	92	8
300508-001	11.35	17.64	17.23	93	7
300508-002	11.29	17.52	16.94	91	9
300508-003	10.89	17.06	16.37	89	11
QC935298	11.35	17.25	16.63	89	11
of 300508-003			RPD:	0.8%	6.2%

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

LIMS Batch #: 260351
 Date: 6-11-18

Page: 41
 Benchbook#: BK 4277

Balance ID: B-13
 calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLK	66	11.59	∅	11.59	
300379-021 D	70	11.28	17.96	16.88	
300412-021	16	11.37	16.92	16.06	
↓ -022	35	11.31	18.40	17.39	
↓ -023	84	11.34	18.12	16.80	
↓ -025	55	11.05	17.35	16.37	
300455-003 A	90	10.83	16.12	15.52	300455-192 (5000)
↓ -006	59	11.24	16.62	16.11	↓ -445
↓ -012	44	11.24	16.47	15.97	↓ -911
↓ -015	76	10.85	16.31	15.75	↓ -13914
300473-001	60	11.05	17.19	16.20	
↓ -002	63	10.86	16.85	16.08	
↓ -003	25	11.28	17.14	16.45	
300482-001 B	80	11.05	18.04	17.26	
300487-001 ↓	14	11.04	16.91	16.43	
300508-001 A	5	11.35	17.64	17.28 ³	
↓ -002	12	11.29	17.52	16.94	
↓ -003	72	10.89	17.06	16.37	
SDUP ↓ -003 ↓	37	11.35	17.25	16.63	
300453-023 D	85	11.20	17.16	16.29	
↓ -024 D	38	11.06	17.59	16.58	
6-11-18					

	In	Out	In-2	Out-2
Date:	6-11-18	6-11-18		
Time:	0250	2231		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MN	MN		

MN 6-11-18
 Analyst Initials / Date

Reviewed Online / See LIMS

Percent Moisture Summary Report

Batch: 260349
 Date: 06/11/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
300379-001	11.31	17.91	16.68	81	19
300379-002	11.01	17.40	16.40	84	16
300379-003	11.25	17.32	16.41	85	15
300379-004	11.23	17.62	16.58	84	16
300379-005	11.35	18.20	17.17	85	15
300379-006	11.31	17.13	16.25	85	15
300379-007	11.33	17.37	16.45	85	15
300379-008	11.36	18.57	17.60	87	13
300379-009	11.35	16.71	15.86	84	16
300379-010	11.40	17.64	17.27	94	6
300379-011	11.63	17.08	16.65	92	8
300379-012	11.26	18.13	17.47	90	10
300379-013	11.12	18.49	17.47	86	14
300379-014	11.03	17.02	15.86	81	19
300379-015	11.62	17.60	16.54	82	18
300379-016	11.06	17.11	16.20	85	15
300379-017	11.33	19.39	18.31	87	13
300379-018	11.37	18.98	17.98	87	13
300379-019	11.21	18.95	17.66	83	17
300379-020	11.11	17.64	17.18	93	7
QC935296	11.33	17.16	16.72	92	8
of 300379-020			RPD:	0.5%	6.9%

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

LIMS Batch #: 260349
 Date: 6-11-18

Page: **39**
 Benchbook#: **BK 4277**

Balance ID: B-13
 calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLK	74	11.35	Ø	11.35	
300379-001 D	95	11.31	17.91	16.68	
-002	23	11.01	17.40	16.40	
-003	58	11.25	17.32	16.41	
-004	51	11.23	17.62	16.58	
-005	26	11.35	18.20	17.17	
-006	87	11.31	17.13	16.25	
-007	19	11.33	17.37	16.45	
-008	92	11.36	18.57	17.60	
-009	81	11.35	16.71	15.86	
-010	45	11.40	17.64	17.27	
-011	31	11.63	17.08	16.65	
-012	27	11.26	18.13	17.47	
-013	79	11.12	18.49	17.47	
-014	34	11.03	17.02	15.86	
-015	15	11.62	17.60	16.54	
-016	28	11.06	17.11	16.20	
-017	82	11.33	19.39	18.31	
-018	71	11.37	18.98	17.98	
-019	69	11.21	18.95	17.66	
-020	46	11.11	17.64	17.18	
SDOF -020	2	11.33	17.16	16.72	

11/6-11-18

	In	Out	In-2	Out-2
Date:	6-11-18	6-11-18		
Time:	0030	2135		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MN	MN		

MN
 6-11-18

MN 6-11-18
 Analyst Initials / Date

Reviewed Online / See LIMS



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 300412 ANALYTICAL REPORT

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Avenue
Level : III

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
BR11-1SB013[3]	300412-001	BR11-1SB017[3]	300412-014
BR11-1SB013[5]	300412-002	BR11-1SB017[5]	300412-015
BR11-1SB013[7]	300412-003	BR11-1SB017[7]	300412-016
BR11-1SB013[10]	300412-004	BR11-1SB017[10]	300412-017
BR11-1SB013[15]	300412-005	BR11-1SB017[15]	300412-018
BR11-1SB013[20]	300412-006	BR11-1SB017[20]	300412-019
BR11-1SB013[25]	300412-007	BR11-1SB017[25]	300412-020
BR11-1SB013[30]	300412-008	BR11-1SB017[30]	300412-021
BR11-1SB013[35]	300412-009	BR11-1SB017[35]	300412-022
BR11-1SB013[40]	300412-010	BR11-1SB017[40]	300412-023
BR11-1SB013[45]	300412-011	TB06052018	300412-024
BR11-1SB013[50]	300412-012	DUP06052018-02	300412-025
DUP06052018-01	300412-013		

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Mike Dahlquist
Project Manager

mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

Date: 06/18/2018

CASE NARRATIVE

Laboratory number: 300412
Client: TRC Solutions
Project: 285830.02.01
Location: Riley Avenue
Request Date: 06/05/18
Samples Received: 06/05/18

This data package contains sample and QC results for twenty four soil samples and one water sample, requested for the above referenced project on 06/05/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B) Water:

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260228; this analyte was not detected in the sample at or above the RL.

No other analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:

Matrix spikes were not performed for this analysis in batch 260273 due to insufficient sample amount.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260234; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260273; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260314; this analyte was not detected in the sample at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260383; this analyte was not detected in the sample at or above the RL.

No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 260428; this analyte was not detected in samples at or above the RL.

Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 260530.

No other analytical problems were encountered.

CASE NARRATIVE

Laboratory number: 300412
Client: TRC Solutions
Project: 285830.02.01
Location: Riley Avenue
Request Date: 06/05/18
Samples Received: 06/05/18

Moisture (ASTM D2216-98/CLP):

No analytical problems were encountered.

Chain of Custody

Enthalpy Analytical LLC
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900 Phone
 (510) 486-0532 Fax

CHAIN OF CUSTODY

Page 1 of 2
 Chain of Custody #:

C&T LOGIN # 300412

Project No: 285830.02.01
 Project Name: Riley Avenue
 EDD Format: TRCEQUIS Rpt Level: II III IV
 Turnaround Time: RUSH Standard
 Sampler: Kevin Li, Nate Berube
 Report To: Alfonso Ang
 Company: TRC Solutions
 Telephone: 415-786-7830
 Email: aang@trcsolutions.com

Lab No.	Sample ID.	Date	Time	Water	Soil	# of Containers	HCl	H ₂ SO ₄	HNO ₃	NaOH	MeOH	Moisture	TPH-g, TPH-d (No SGC), TPH-mo. - 8015	Analytical Request
	BR11-1SB013[3]	6/5/18	8:20	X		4					X	X	X	
	BR11-1SB013[5]		8:25	X		4					X	X	X	
	BR11-1SB013[7]		8:32	X		4					X	X	X	
	BR11-1SB013[10]		8:35	X		4					X	X	X	
	BR11-1SB013[15]		8:41	X		4					X	X	X	
	BR11-1SB013[20]		8:44	X		4					X	X	X	
	BR11-1SB013[25]		8:54	X		4					X	X	X	
	BR11-1SB013[30]		9:20	X		4					X	X	X	
	BR11-1SB013[35]		9:33	X		4					X	X	X	
	BR11-1SB013[40]		10:17	X		4					X	X	X	
	BR11-1SB013[45]		10:23	X		4					X	X	X	
	BR11-1SB013[50]		10:40	X		4					X	X	X	
	DUP06052018-01		10:18	X		4					X	X	X	

Notes: Include Geotracker EDF

All results to be reported on a dry weight basis. No silica gel cleanup

Please email cc the following:
 jhancel-durbin@trcsolutions.com, kli@trcsolutions.com
 mpatinkin@trcsolutions.com, nberube@trcsolutions.com
 smilcan@trcsolutions.com

RELINQUISHED BY: Kevin Li 6/5/18 15:50 DATE/TIME
Tobey Priest 6/5/18 17:30 DATE/TIME

RECEIVED BY: Kevin Li 6/5/18 15:50 DATE/TIME
Tobey Priest 6/5/18 17:30 DATE/TIME

Enthalpy Analytical LLC
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900 Phone
 (510) 486-0532 Fax

CHAIN OF CUSTODY

Page 2 of 2
 Chain of Custody #:

C&T LOGIN # 300412

Project No: 285830.02.01
 Project Name: Riley Avenue
 EDD Format: TRCEQUIS Rpt Level: II III IV
 Turnaround Time: RUSH Standard
 Sampler: Kevin Li, Nate Berube
 Report To: Alfonso Ang
 Company: TRC Solutions
 Telephone: 415-786-7830
 Email: aang@trcsolutions.com

Lab No.	Sample ID.	Sampling		Matrix			Chemical Preservative					Containers # of	Moisture	Analytical Request
		Date	Time	Water	Soil		HCl	H ₂ SO ₄	HNO ₃	NaOH	MeOH			
	BR11-1SB017[3]	6/5/18	11:13	X	X							4	X	
	BR11-1SB017[5]		11:16	X	X							4	X	
	BR11-1SB017[7]		12:25	X	X							4	X	
	BR11-1SB017[10]		12:27	X	X							4	X	
	BR11-1SB017[15]		12:35	X	X							4	X	
	BR11-1SB017[20]		12:57	X	X							4	X	
	BR11-1SB017[25]		13:12	X	X							4	X	
	BR11-1SB017[30]		13:20	X	X							4	X	
	BR11-1SB017[35]		13:45	X	X							4	X	
	BR11-1SB017[40]		14:00	X	X							4	X	
	BR11-1SB017[46]		15:45	X	X						1	KL	X	TPH-g + BTEX - EPA 8015+8021
	BR11-1SB017[50]			X	X						4	KL	X	
	Dup06052018 - 02	6/5/18	12:59	X	X							4	X	

Notes: Include Geotracker EDF

RECEIVED BY: Tobey Prasad 6/5/18 15:50 DATE/TIME

RELINQUISHED BY: Kevin Li 6/5/18 15:50 DATE/TIME

RECEIVED BY: KL 6-5-18 1730 DATE/TIME

RELINQUISHED BY: Tobey Prasad 6/5/18 1735 DATE/TIME

Notes: All results to be reported on a dry weight basis. No silica gel cleanup
 Please email cc the following:
 jhanzel-durbin@trcsolutions.com, kli@trcsolutions.com
 mpatinkin@trcsolutions.com, nberube@trcsolutions.com
 smilcan@trcsolutions.com

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 300412
Date Received: 6-5-18

Client: TRC
Project: Kiley Avenue

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # A, or B

Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 6-5-18 By (print) SP (sign) SP

Shipping info (if applicable) _____

Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package

Date: _____ How many _____ Signature, Initials, None

Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important : Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

Samples received on ice directly from the field. Cooling process had begun

Type of ice used : Wet, Blue/Gel, None Temperature blank(s) included? Yes, No

Temperature measured using Thermometer ID: _____ or IR Gun # A B

Cooler Temp (°C): #1: 5.4, #2: 5.6, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?	<input checked="" type="checkbox"/>		
If YES, what time were they transferred to freezer? <u>13:10 6-6-18</u>			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?			<input checked="" type="checkbox"/>
Did you change the hold time in LIMS for preserved terracores?	<input checked="" type="checkbox"/>		
Are bubbles > 6mm absent in VOA samples?		<input checked="" type="checkbox"/>	
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			<input checked="" type="checkbox"/>
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

H2SO4 lot# _____ added to samples _____ on/at _____

HCL lot# _____ added to samples _____ on/at _____

HNO3 lot# _____ added to samples _____ on/at _____

NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: sample 24 - 1/2 VOA arrived containing bubble

Date Logged in 6/6/18

By (print) VSR (sign) VSR

Date Labeled 6-6-18

By (print) TKY (sign) TKY

Detections Summary for 300412

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions
 Project : 285830.02.01
 Location : Riley Avenue

Client Sample ID : BR11-1SB013[3] Laboratory Sample ID : 300412-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.014	J	0.16	0.0085	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.84	J,Y,Z	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	17		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB013[5] Laboratory Sample ID : 300412-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.017	J	0.22	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.67	J,Y,Z	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	17		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB013[7] Laboratory Sample ID : 300412-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.013	J	0.17	0.0092	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.48	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	15		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB013[10] Laboratory Sample ID : 300412-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.022	J	0.16	0.0087	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.80	J,Y,Z	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	14		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB013[15] Laboratory Sample ID : 300412-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.0084	J	0.16	0.0084	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.93	J,Y,Z	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	14		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB013[20]

Laboratory Sample ID : 300412-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.0099	J	0.15	0.0080	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.99	J,Y,Z	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	17		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB013[25]

Laboratory Sample ID : 300412-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.015	J	0.18	0.0098	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.82	J,Y,Z	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	15		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB013[30]

Laboratory Sample ID : 300412-008

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.022	J	0.15	0.0097	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.39	J,Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	10		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB013[35]

Laboratory Sample ID : 300412-009

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.020	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.2	Y,Z	1.1	0.33	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	7.0	Y,Z	5.4	1.6	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	8		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB013[40]

Laboratory Sample ID : 300412-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.021	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.4	Y,Z	1.1	0.33	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	1.7	J,Y,Z	5.5	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	8		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB013[45]

Laboratory Sample ID : 300412-011

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.021	J	0.15	0.0093	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Moisture, Percent	10		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB013[50]

Laboratory Sample ID : 300412-012

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.030	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.69	J,Y,Z	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	13		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : DUP06052018-01

Laboratory Sample ID : 300412-013

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.029	J	0.15	0.0099	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.40	J,Y	1.1	0.33	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	8		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB017[3]

Laboratory Sample ID : 300412-014

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.020	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	9.9	Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	20		5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	14		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB017[5]

Laboratory Sample ID : 300412-015

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.020	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.2	Y,Z	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	5.5	J,Y,Z	6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	17		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB017[7]

Laboratory Sample ID : 300412-016

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.022	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.83	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	15		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB017[10]

Laboratory Sample ID : 300412-017

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.011	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.97	J,Y,Z	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	16		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB017[15]

Laboratory Sample ID : 300412-018

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.9	Y,Z	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	15		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB017[20]

Laboratory Sample ID : 300412-019

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.030	J	0.16	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.57	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	15		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB017[25]

Laboratory Sample ID : 300412-020

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.015	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.56	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	16		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB017[30]

Laboratory Sample ID : 300412-021

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.24	J	1.3	0.082	mg/Kg	Dry	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	0.47	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	15		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB017[35]

Laboratory Sample ID : 300412-022

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.026	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Moisture, Percent	14		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB017[40]

Laboratory Sample ID : 300412-023

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.029	J	0.18	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.45	J,Y	1.2	0.38	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	19		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : TB06052018

Laboratory Sample ID :

300412-024

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	26	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Toluene	0.19	J	0.50	0.11	ug/L	As Recd	1.000	EPA 8021B	EPA 5030B
Ethylbenzene	0.83	C	0.50	0.10	ug/L	As Recd	1.000	EPA 8021B	EPA 5030B
m,p-Xylenes	0.34	C,J	0.50	0.13	ug/L	As Recd	1.000	EPA 8021B	EPA 5030B
o-Xylene	0.30	C,J	0.50	0.14	ug/L	As Recd	1.000	EPA 8021B	EPA 5030B

Client Sample ID : DUP06052018-02

Laboratory Sample ID :

300412-025

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.034	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.0	J,Y,Z	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	16		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

C = Presence confirmed, but RPD between columns exceeds 40%

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Z = Sample exhibits unknown single peak or peaks

Laboratory Job Number 300412

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Water

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01		
Field ID:	TB06052018	Batch#:	260228
Matrix:	Water	Sampled:	06/05/18
Units:	ug/L	Received:	06/05/18
Diln Fac:	1.000	Analyzed:	06/06/18

Type: SAMPLE Lab ID: 300412-024

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	26 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	0.19 J	0.50	0.11	EPA 8021B
Ethylbenzene	0.83 C	0.50	0.10	EPA 8021B
m,p-Xylenes	0.34 C J	0.50	0.13	EPA 8021B
o-Xylene	0.30 C J	0.50	0.14	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	96	79-120	EPA 8015B
Bromofluorobenzene (PID)	94	71-127	EPA 8021B

Type: BLANK Lab ID: QC934795

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	18 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.10	EPA 8021B
Ethylbenzene	ND	0.50	0.10	EPA 8021B
m,p-Xylenes	ND	0.50	0.13	EPA 8021B
o-Xylene	ND	0.50	0.14	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	94	79-120	EPA 8015B
Bromofluorobenzene (PID)	92	71-127	EPA 8021B

C= Presence confirmed, but RPD between columns exceeds 40%
 J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC934792	Batch#:	260228
Matrix:	Water	Analyzed:	06/06/18
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,106	111	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	79-120

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8021B
Matrix:	Water	Batch#:	260228
Units:	ug/L	Analyzed:	06/06/18
Diln Fac:	1.000		

Type: BS Lab ID: QC934793

Analyte	Spiked	Result	%REC	Limits
Benzene	10.00	9.523	95	80-120
Toluene	10.00	9.427	94	80-120
Ethylbenzene	10.00	9.606	96	79-120
m,p-Xylenes	10.00	9.622	96	79-120
o-Xylene	10.00	9.262	93	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	82	71-127

Type: BSD Lab ID: QC934794

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	10.00	10.08	101	80-120	6	20
Toluene	10.00	9.845	98	80-120	4	20
Ethylbenzene	10.00	9.729	97	79-120	1	20
m,p-Xylenes	10.00	10.09	101	79-120	5	20
o-Xylene	10.00	10.14	101	80-120	9	20

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	89	71-127

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	260228
MSS Lab ID:	300441-001	Sampled:	06/06/18
Matrix:	Water	Received:	06/06/18
Units:	ug/L	Analyzed:	06/06/18
Diln Fac:	1.000		

Type: MS Lab ID: QC934796

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	45.83	2,000	2,166	106	80-120

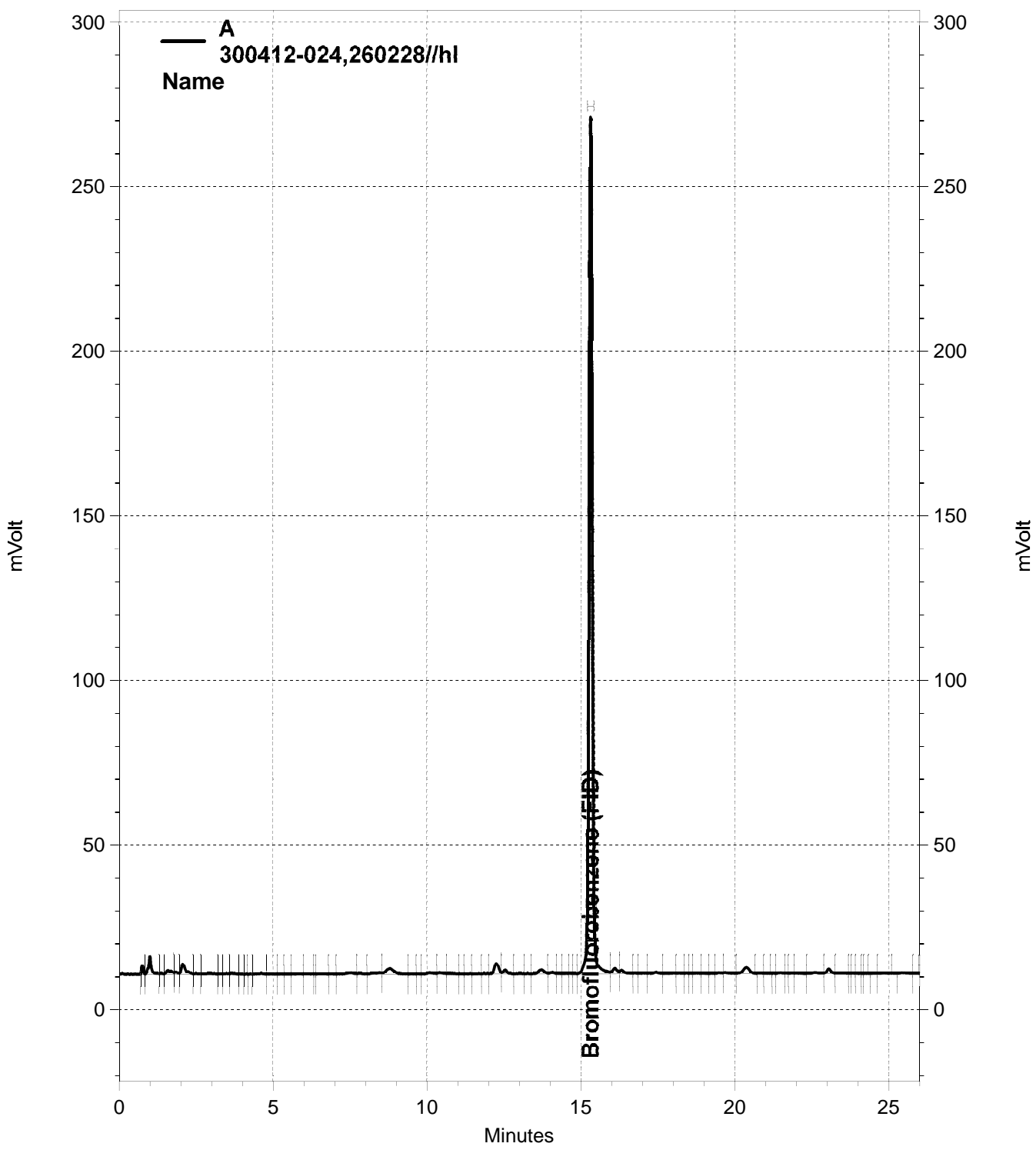
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	79-120

Type: MSD Lab ID: QC934797

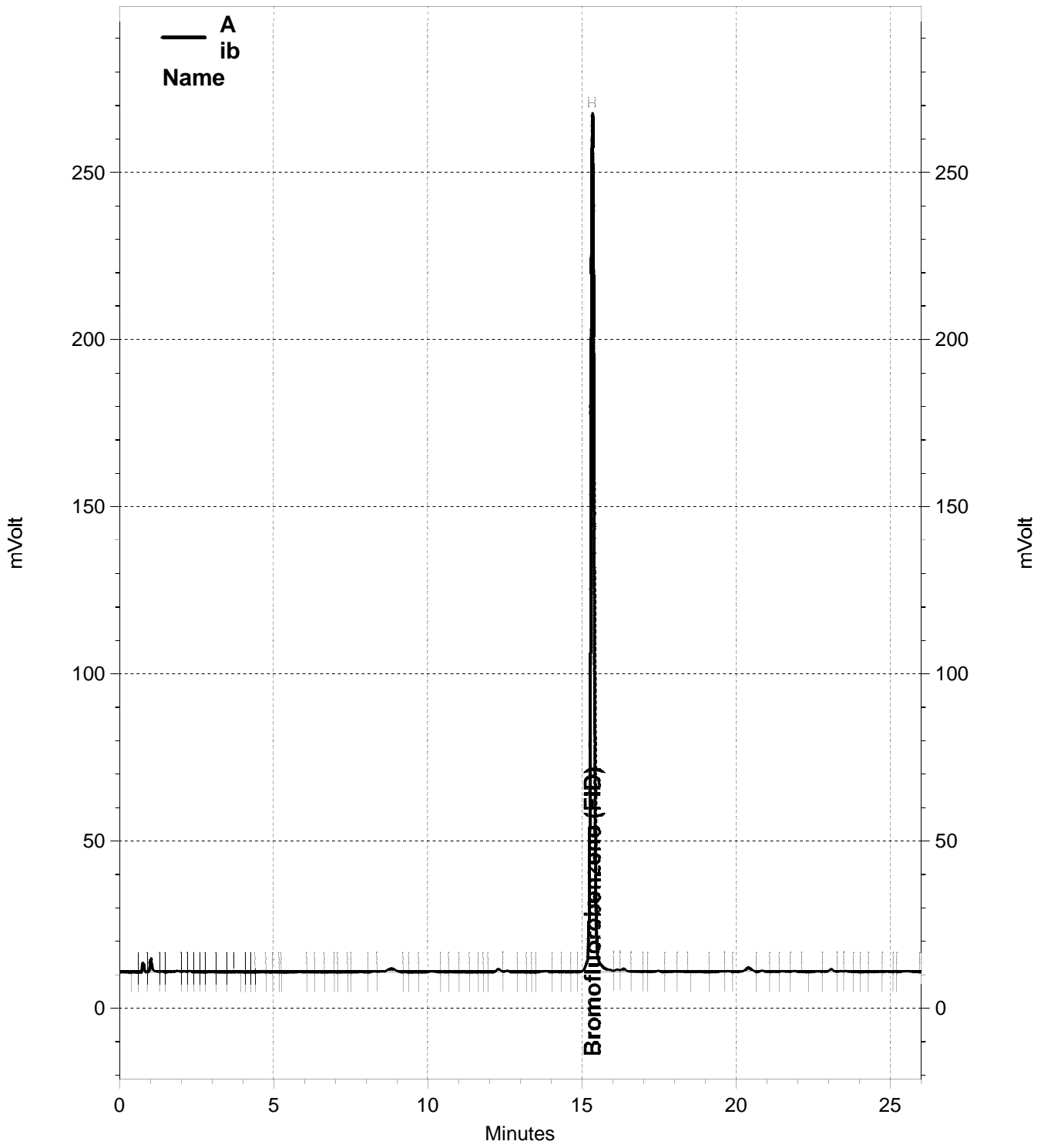
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,155	105	80-120	1	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	79-120

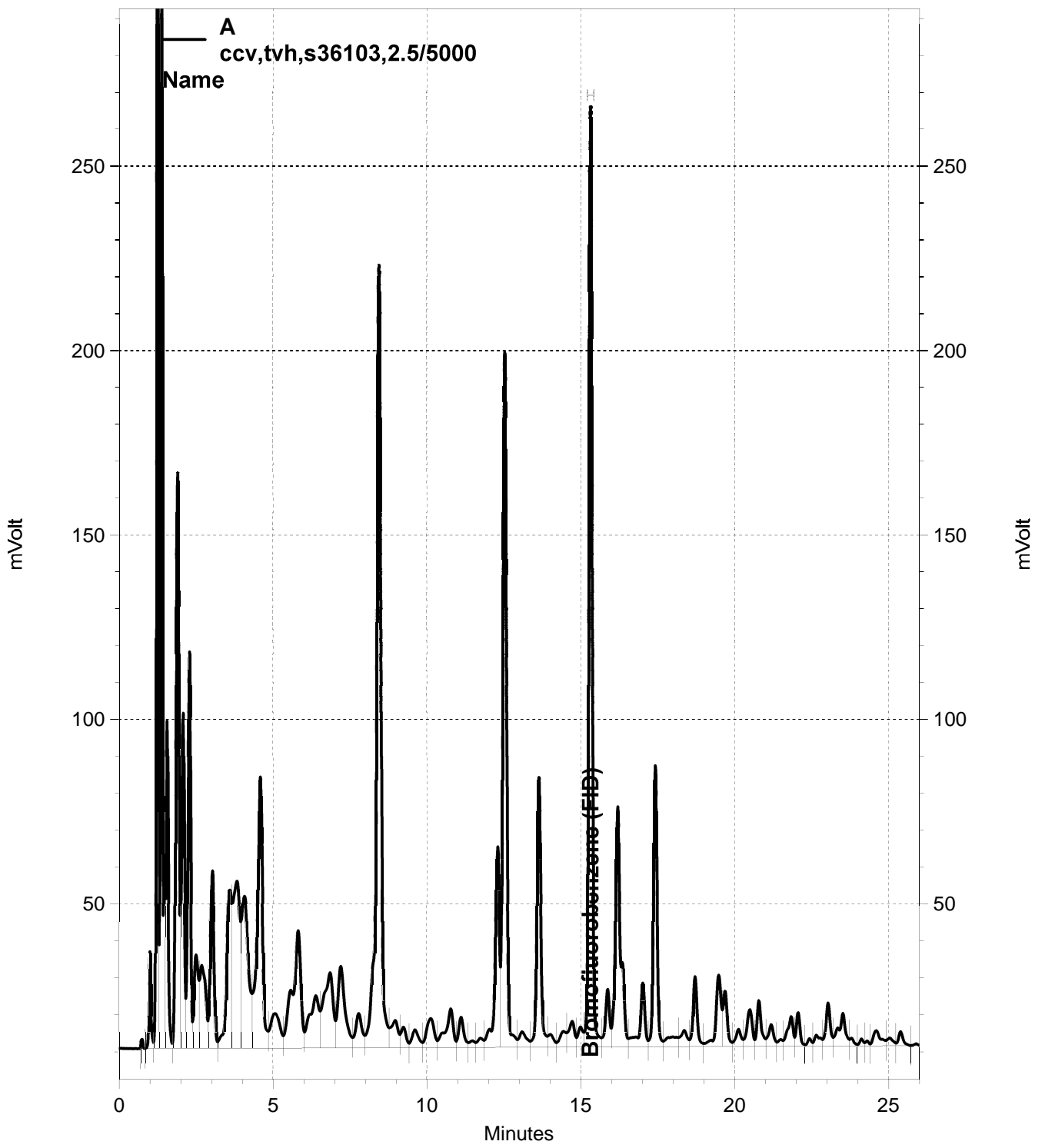
RPD= Relative Percent Difference



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-015, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-007, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-002, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 300412 GCVOA Water: EPA 8021B

Inst : GC07
 Calnum : 328176634001
 Units : ng

Name : MBTXE_122
 Date : 02-MAY-2018 22:56
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_012	328176634012	BTXE_1	02-MAY-2018 22:56	S35889 (1000X), S36233 (5000X)
L2	122_013	328176634013	MBTXE_2	02-MAY-2018 23:34	S36294 (1250X), S36233 (5000X)
L3	122_014	328176634014	MBTXE_3	03-MAY-2018 00:12	S36294 (500X), S36233 (5000X)
L4	122_015	328176634015	MBTXE_4	03-MAY-2018 00:50	S36294 (125X), S36233 (5000X)
L5	122_016	328176634016	MBTXE_5	03-MAY-2018 01:28	S35887 (1000X), S36233 (5000X)
L6	122_017	328176634017	MBTXE_6	03-MAY-2018 02:07	S35887 (500X), S36233 (5000X)
L7	122_018	328176634018	MBTXE_7	03-MAY-2018 02:45	S35887 (250X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzene	B	32661	28967	33865	33045	35530	36077	35842	AVRG		2.97E-5		33713	7	0.995	20	
Toluene	B	35850	27715	30543	29993	32299	32713	32236	AVRG		3.16E-5		31621	8	0.995	20	
Ethylbenzene	B	33834	24137	26923	25828	27555	27919	26928	AVRG		3.62E-5		27589	11	0.995	20	
m,p-Xylenes	B	45518	30761	32393	32140	33095	33659	33242	AVRG		2.91E-5		34401	15	0.995	20	
o-Xylene	B	31247	24358	27258	27337	28898	29291	28661	AVRG		3.55E-5		28150	8	0.995	20	
Bromofluorobenzene (PID)	B	25488	25061	24534	24811	25891	26143	26329	AVRG		3.93E-5		25465	3	0.995	20	
Benzene	C	1703.2	1706.2	2146.8	2247.1	2460.9	2462.7	2389.3	AVRG		4.63E-4		2159.5	15	0.995	20	
Toluene	C	1753.6	1588.0	1890.6	2016.8	2223.6	2231.7	2170.5	AVRG		5.05E-4		1982.1	13	0.995	20	
Ethylbenzene	C	1289.2	1252.0	1570.5	1706.8	1871.4	1900.9	1843.8	AVRG		6.12E-4		1633.5	17	0.995	20	
m,p-Xylenes	C	2560.8	1850.1	2117.0	2173.8	2306.7	2311.8	2234.5	AVRG		4.50E-4		2222.1	10	0.995	20	
o-Xylene	C	2204.0	1604.0	1849.9	1872.5	1984.5	1988.5	1930.9	AVRG		5.21E-4		1919.2	9	0.995	20	
Bromofluorobenzene (PID)	C	1775.8	1741.0	1701.0	1707.9	1749.9	1734.9	1719.7	AVRG		5.77E-4		1732.9	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Benzene	B	2.5000	-3	10.000	-14	25.000	0	100.00	-2	500.00	5	1000.0	7	2000.0	6
Toluene	B	2.5000	13	10.000	-12	25.000	-3	100.00	-5	500.00	2	1000.0	3	2000.0	2
Ethylbenzene	B	2.5000	23	10.000	-13	25.000	-2	100.00	-6	500.00	0	1000.0	1	2000.0	-2
m,p-Xylenes	B	2.5000	32	10.000	-11	25.000	-6	100.00	-7	500.00	-4	1000.0	-2	2000.0	-3
o-Xylene	B	2.5000	11	10.000	-13	25.000	-3	100.00	-3	500.00	3	1000.0	4	2000.0	2
Bromofluorobenzene (PID)	B	900.00	0	900.00	-2	900.00	-4	900.00	-3	900.00	2	900.00	3	900.00	3
Benzene	C	2.5000	-21	10.000	-21	25.000	-1	100.00	4	500.00	14	1000.0	14	2000.0	11
Toluene	C	2.5000	-12	10.000	-20	25.000	-5	100.00	2	500.00	12	1000.0	13	2000.0	10
Ethylbenzene	C	2.5000	-21	10.000	-23	25.000	-4	100.00	4	500.00	15	1000.0	16	2000.0	13
m,p-Xylenes	C	2.5000	15	10.000	-17	25.000	-5	100.00	-2	500.00	4	1000.0	4	2000.0	1
o-Xylene	C	2.5000	15	10.000	-16	25.000	-4	100.00	-2	500.00	3	1000.0	4	2000.0	1
Bromofluorobenzene (PID)	C	900.00	2	900.00	0	900.00	-2	900.00	-1	900.00	1	900.00	0	900.00	-1

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVR=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300412 GCVOA Water
EPA 8021B

Inst : GC07
Calnum : 328176634001

Name : MBTXE_122
Cal Date : 02-MAY-2018

ICV 328176634020 (122_020 03-MAY-2018) stds: S36861 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	100.0	95.41	ng	-5	15	
Toluene	B	100.0	92.97	ng	-7	15	
Ethylbenzene	B	100.0	92.82	ng	-7	15	
m,p-Xylenes	B	200.0	181.8	ng	-9	15	
o-Xylene	B	100.0	98.35	ng	-2	15	
Benzene	C	100.0	104.6	ng	5	15	
Toluene	C	100.0	102.9	ng	3	15	
Ethylbenzene	C	100.0	108.3	ng	8	15	
m,p-Xylenes	C	200.0	196.8	ng	-2	15	
o-Xylene	C	100.0	101.6	ng	2	15	

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

ENTHALPY INITIAL CALIBRATION FOR 300412 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 328184879001
 Units : ng

Name : TVH_129
 Date : 08-MAY-2018 21:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	128_017	328184879017	TVH_14	08-MAY-2018 21:46	S36893 (1000X), S36233 (5000X)
L2	128_018	328184879018	TVH_15	08-MAY-2018 22:25	S36892 (1000X), S36233 (5000X)
L3	128_019	328184879019	TVH_16	08-MAY-2018 23:03	S36891 (1000X), S36233 (5000X)
L4	128_020	328184879020	TVH_17	08-MAY-2018 23:42	S36890 (2000X), S36233 (5000X)
L5	128_021	328184879021	TVH_18	09-MAY-2018 00:20	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	2551.5	2151.4	1868.7	2079.4	2113.6	AVRG		4.64E-4		2152.9	12	0.995	20	
Bromofluorobenzene (FID)	A	2209.5	2170.3	2197.1	2287.3	2435.2	AVRG		4.43E-4		2259.9	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	19	2500.0	0	10000	-13	25000	-3	50000	-2
Bromofluorobenzene (FID)	A	900.00	-2	900.00	-4	900.00	-3	900.00	1	900.00	8

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300412 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 328184879001

Name : TVH_129
Cal Date : 08-MAY-2018

ICV 328184879024 (128_024 09-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8973	ng	-10	15	

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

ENTHALPY SPIKE USER REPORT FOR 300412 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC07 Run Name : QC934819 IDF : 1.0
 Seqnum : 328226642002.8 File : 157_002 Time : 06-JUN-2018 10:00
 Standards: S36103 (2000X), S37192 (5000X)

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Gasoline C7-C12	A	328184879001	08-MAY-2018	2152.9	2427.8	5000	5638	ng	13	15	u
Benzene	C	328176634001	02-MAY-2018	2159.5			51.65	ng		15	c- ***
Benzene	B	328176634001	02-MAY-2018	33713			60.24	ng		15	c- ***
Toluene	C	328176634001	02-MAY-2018	1982.1			337.4	ng		15	c- ***
Toluene	B	328176634001	02-MAY-2018	31621			333.0	ng		15	c- ***
Ethylbenzene	C	328176634001	02-MAY-2018	1633.5			72.62	ng		15	c- ***
Ethylbenzene	B	328176634001	02-MAY-2018	27589			74.60	ng		15	c- ***
m,p-Xylenes	C	328176634001	02-MAY-2018	2222.1			255.8	ng		15	c- ***
m,p-Xylenes	B	328176634001	02-MAY-2018	34401			256.5	ng		15	c- ***
o-Xylene	C	328176634001	02-MAY-2018	1919.2			107.1	ng		15	c- ***
o-Xylene	B	328176634001	02-MAY-2018	28150			108.5	ng		15	c- ***
Bromofluorobenzene (FID)	A	328184879001	08-MAY-2018	2259.9	2095.4	900.0	834.5	ng	-7	15	u

Analyst: JM2 Date: 06/07/18 Reviewer: EAH Date: 06/13/18

--low bias c=CCV u=use

ENTHALPY SPIKE USER REPORT FOR 300412 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : QC934793 IDF : 1.0
 Seqnum : 328226642003.5 File : 157_003 Time : 06-JUN-2018 10:38
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	C	2159.5	2056.5	50.00	47.62	ng	-5	15	u
Benzene	B	33713	34196	50.00	50.72	ng	1	15	
Toluene	C	1982.1	1868.6	50.00	47.14	ng	-6	15	u
Toluene	B	31621	31429	50.00	49.70	ng	-1	15	
Ethylbenzene	C	1633.5	1569.1	50.00	48.03	ng	-4	15	u
Ethylbenzene	B	27589	27045	50.00	49.01	ng	-2	15	
m,p-Xylenes	C	2222.1	2138.0	50.00	48.11	ng	-4	15	u
m,p-Xylenes	B	34401	35073	50.00	50.98	ng	2	15	
o-Xylene	C	1919.2	1777.5	50.00	46.31	ng	-7	15	u
o-Xylene	B	28150	28546	50.00	50.70	ng	1	15	
Bromofluorobenzene (PID)	C	1732.9	1417.6	900.0	736.3	ng	-18	15	c- u
Bromofluorobenzene (PID)	B	25465	22563	900.0	797.4	ng	-11	15	

Analyst: JM2 Date: 06/07/18 Reviewer: EAH Date: 06/13/18

--low bias c=CCV u=use

ENTHALPY SPIKE USER REPORT FOR 300412 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC934792 IDF : 1.0
 Seqnum : 328226642004.7 File : 157_004 Time : 06-JUN-2018 11:17
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36103 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2381.9	5000	5532	ng	11	15	u
Bromofluorobenzene (FID)	A	2259.9	2135.6	900.0	850.5	ng	-5	15	u

Analyst: JM2 Date: 06/07/18 Reviewer: EAH Date: 06/13/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328226642012 File : 157_012 Time : 06-JUN-2018 17:08
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2127.1	10000	9880	ng	-1	15	
Bromofluorobenzene (FID)	A	2259.9	2180.3	900.0	868.3	ng	-4	15	

Analyst: CJN Date: 06/07/18 Reviewer: EAH Date: 06/07/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328226642014 File : 157_014 Time : 06-JUN-2018 18:24
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	B	33713	31467	100.0	93.34	ng	-7	15	
Toluene	B	31621	28604	100.0	90.46	ng	-10	15	
Ethylbenzene	B	27589	24845	100.0	90.05	ng	-10	15	
m,p-Xylenes	B	34401	30318	100.0	88.13	ng	-12	15	
o-Xylene	B	28150	26320	100.0	93.50	ng	-6	15	
Bromofluorobenzene (PID)	B	25465	23465	900.0	829.3	ng	-8	15	
Benzene	C	2159.5	1909.7	100.0	88.44	ng	-12	15	
Toluene	C	1982.1	1712.9	100.0	86.42	ng	-14	15	
Ethylbenzene	C	1633.5	1439.9	100.0	88.15	ng	-12	15	
m,p-Xylenes	C	2222.1	1856.1	100.0	83.53	ng	-16	15	c- ***
o-Xylene	C	1919.2	1612.1	100.0	84.00	ng	-16	15	c- ***
Bromofluorobenzene (PID)	C	1732.9	1449.0	900.0	752.6	ng	-16	15	c-

CJN 06/07/18 : m,p-Xylenes and o-Xylenes out low, reporting from ch B, using ch C as confirmation.

CJN 06/07/18 [Bromofluorobenzene (PID) C]: Passes control limits.

Analyst: CJN Date: 06/07/18 Reviewer: EAH Date: 06/07/18

--low bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328226642021 File : 157_021 Time : 06-JUN-2018 23:19
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2051.0	15000	14290	ng	-5	15	
Bromofluorobenzene (FID)	A	2259.9	2129.6	900.0	848.1	ng	-6	15	

Analyst: CJN Date: 06/07/18 Reviewer: EAH Date: 06/07/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328226642023 File : 157_023 Time : 07-JUN-2018 00:36
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	B	33713	31350	150.0	139.5	ng	-7	15	
Toluene	B	31621	28517	150.0	135.3	ng	-10	15	
Ethylbenzene	B	27589	24804	150.0	134.9	ng	-10	15	
m,p-Xylenes	B	34401	30137	150.0	131.4	ng	-12	15	
o-Xylene	B	28150	26293	150.0	140.1	ng	-7	15	
Bromofluorobenzene (PID)	B	25465	22577	900.0	797.9	ng	-11	15	
Benzene	C	2159.5	1983.4	150.0	137.8	ng	-8	15	
Toluene	C	1982.1	1779.4	150.0	134.7	ng	-10	15	
Ethylbenzene	C	1633.5	1496.2	150.0	137.4	ng	-8	15	
m,p-Xylenes	C	2222.1	1899.5	150.0	128.2	ng	-15	15	
o-Xylene	C	1919.2	1668.5	150.0	130.4	ng	-13	15	
Bromofluorobenzene (PID)	C	1732.9	1428.3	900.0	741.8	ng	-18	15	c-

CJN 06/07/18 [Bromofluorobenzene (PID) C]: Passes control limits.

Analyst: CJN Date: 06/07/18 Reviewer: EAH Date: 06/07/18

--low bias c=CCV

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328176634

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/02/18 15:54
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std	Used
001	122_001	IB	CALIB			05/02/18 15:54	1.0	1	
002	122_002	ICAL	TVH_14			05/02/18 16:33	1.0	2	1
003	122_003	ICAL	TVH_15			05/02/18 17:11	1.0	3	1
004	122_004	ICAL	TVH_16			05/02/18 17:49	1.0	4	1
005	122_005	ICAL	TVH_17			05/02/18 18:28	1.0	5	1
006	122_006	ICAL	TVH_18			05/02/18 19:06	1.0	5	1
007	122_007	IB				05/02/18 19:44	1.0	1	
008	122_008	ICV	TVH			05/02/18 20:23	1.0	6	1
009	122_009	X	ICV			05/02/18 21:00	1.0	6	1
010	122_010	CMARKER				05/02/18 21:39	1.0	7	1
011	122_011	IB	CALIB			05/02/18 22:17	1.0	1	
012	122_012	ICAL	BTXE_1			05/02/18 22:56	1.0	8	1
013	122_013	ICAL	MBTXE_2			05/02/18 23:34	1.0	9	1
014	122_014	ICAL	MBTXE_3			05/03/18 00:12	1.0	9	1
015	122_015	ICAL	MBTXE_4			05/03/18 00:50	1.0	9	1
016	122_016	ICAL	MBTXE_5			05/03/18 01:28	1.0	10	1
017	122_017	ICAL	MBTXE_6			05/03/18 02:07	1.0	10	1
018	122_018	ICAL	MBTXE_7			05/03/18 02:45	1.0	10	1
019	122_019	IB				05/03/18 03:23	1.0	1	
020	122_020	ICV	MBTXE			05/03/18 04:01	1.0	11	1
021	122_021	X	ICV			05/03/18 04:40	1.0	11	1

PAW 05/04/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 21.

Reviewed by: PAW Date: 05/04/18

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S35319 8=S35889 9=S36294 10=S35887 11=S36861

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328184879

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/08/18 09:19
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	128_001	X	CMARKER			05/08/18 09:19	1.0	1 2	
002	128_002	CCV	TVH			05/08/18 09:58	1.0	3 2	
003	128_003	CCV/LCS	QC931207	Water	259308	05/08/18 10:36	1.0	4 2	
004	128_004	CCV	TVH			05/08/18 11:15	1.0	3 2	
005	128_005	CCV	BTXE			05/08/18 11:53	1.0	4 2	
006	128_006	BLANK	QC931206	Water	259308	05/08/18 12:31	1.0	2	
007	128_007	MSS	299300-001	Water	259308	05/08/18 15:18	1.0	2	headspace > 1 mL
008	128_008	CCV	BTXE			05/08/18 15:57	1.0	4 2	
011	128_011	IB				05/08/18 17:57	1.0	2	
012	128_012	IB				05/08/18 18:35	1.0	2	
013	128_013	IB				05/08/18 19:13	1.0	2	
014	128_014	IB				05/08/18 19:51	1.0	2	
015	128_015	IB				05/08/18 20:30	1.0	2	
016	128_016	IB	CALIB			05/08/18 21:08	1.0	2	
017	128_017	ICAL	TVH_14			05/08/18 21:46	1.0	5 2	
018	128_018	ICAL	TVH_15			05/08/18 22:25	1.0	6 2	
019	128_019	ICAL	TVH_16			05/08/18 23:03	1.0	7 2	
020	128_020	ICAL	TVH_17			05/08/18 23:42	1.0	8 2	
021	128_021	ICAL	TVH_18			05/09/18 00:20	1.0	8 2	
022	128_022	IB				05/09/18 00:58	1.0	2	
023	128_023	X	ICV			05/09/18 01:37	1.0	9 2	
024	128_024	ICV	TVH			05/09/18 02:15	1.0	9 2	
025	128_025	CMARKER				05/09/18 02:54	1.0	1 2	

Reviewed by: _____ Date: _____

Standards used: 1=S35319 2=S36233 3=S36103 4=S36185 5=S36893 6=S36892 7=S36891 8=S36890 9=S36894

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328226642

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 06/06/18 09:22
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	157_001	X	CMARKER			06/06/18 09:22	1.0	1 2	
002	157_002	CCV/LCS	QC934819	Soil	260234	06/06/18 10:00	1.0	3 2	
003	157_003	CCV/BS	QC934793	Water	260228	06/06/18 10:38	1.0	4 2	
004	157_004	CCV/LCS	QC934792	Water	260228	06/06/18 11:17	1.0	3 2	
005	157_005	BSD	QC934794	Water	260228	06/06/18 11:55	1.0	4 2	
006	157_006	BLANK	QC934820	Soil	260234	06/06/18 12:33	1.0	2	
007	157_007	BLANK	QC934795	Water	260228	06/06/18 13:45	1.0	2	
008	157_008	SAMPLE	300379-023	Water	260228	06/06/18 14:34	1.0	2	headspace > 1 mL
009	157_009	SAMPLE	300370-001	Water	260228	06/06/18 15:13	1.0	2	
010	157_010	SAMPLE	300379-022	Water	260228	06/06/18 15:51	5.0	2	
011	157_011	SAMPLE	300394-022	Water	260228	06/06/18 16:30	1.0	2	
012	157_012	CCV	TVH			06/06/18 17:08	1.0	5 2	
013	157_013	X	CMARKER			06/06/18 17:46	1.0	1 2	
014	157_014	CCV	BTXE			06/06/18 18:24	1.0	4 2	
015	157_015	SAMPLE	300412-024	Water	260228	06/06/18 19:30	1.0	2	headspace <= 1 mL
016	157_016	MSS	300441-001	Water	260228	06/06/18 20:08	1.0	2	
017	157_017	SAMPLE	300444-001	Water	260228	06/06/18 20:46	5.0	2	diluted (odor)
018	157_018	SAMPLE	300408-001	Water	260228	06/06/18 21:25	1.0	2	headspace > 1 mL
019	157_019	MS	QC934796	Water	260228	06/06/18 22:03	1.0	5 2	
020	157_020	MSD	QC934797	Water	260228	06/06/18 22:41	1.0	5 2	
021	157_021	CCV	TVH			06/06/18 23:19	1.0	5 2	
022	157_022	X	CMARKER			06/06/18 23:58	1.0	1 2	
023	157_023	CCV	BTXE			06/07/18 00:36	1.0	4 2	
024	157_024	SAMPLE	300412-001	Soil	260234	06/07/18 01:14	1.0	2	
025	157_025	SAMPLE	300412-002	Soil	260234	06/07/18 01:52	1.0	2	
026	157_026	SAMPLE	300412-003	Soil	260234	06/07/18 02:31	1.0	2	
027	157_027	SAMPLE	300412-004	Soil	260234	06/07/18 03:09	1.0	2	
028	157_028	SAMPLE	300412-005	Soil	260234	06/07/18 03:47	1.0	2	
029	157_029	SAMPLE	300412-006	Soil	260234	06/07/18 04:25	1.0	2	
030	157_030	SAMPLE	300412-007	Soil	260234	06/07/18 05:03	1.0	2	
031	157_031	MSS	300413-005	Soil	260234	06/07/18 05:42	1.0	2	
032	157_032	SAMPLE	300413-010	Soil	260234	06/07/18 06:20	1.0	2	
033	157_033	SAMPLE	300413-014	Soil	260234	06/07/18 06:58	1.0	2	
034	157_034	CCV	TVH			06/07/18 07:36	1.0	5 2	
035	157_035	X	CMARKER			06/07/18 08:14	1.0	1 2	
036	157_036	SAMPLE	300446-001	Soil	260234	06/07/18 08:52	1.0	2	
037	157_037	MS	QC934821	Soil	260234	06/07/18 09:31	1.0	5 2	
038	157_038	MSD	QC934822	Soil	260234	06/07/18 10:09	1.0	5 2	
039	157_039	CCV	TVH			06/07/18 10:47	1.0	5 2	
040	157_040	X	CMARKER			06/07/18 11:25	1.0	1 2	

CJN 06/07/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

Reviewed by: CJN Date: 06/07/18

Standards used: 1=S36859 2=S37192 3=S36103 4=S36185 5=S36848

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_r3.xls

5mL disposable pipettes, lot #: 06-15-2017

pH paper (<2.55U), lot: 230315

pH paper (0-14SU), lot: 10B24H1271

Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSVQA?	# unused vials remaining	RR #	DF	Comments	hold	due	Initial/Date
300230-1	B	Y										JM2 5/31/18
↓ -2	↓	↓										↓
↓ -3	F	↓										↓
↓ -4	E	↓										↓
300239-13	B	Y										↓
↓ -13 MS	↓	↓										↓
↓ -13 MSD	↓	↓										↓
300270-1	A	Y										JM2 6/1/18
↓ -1 MS	↓	↓										↓
↓ -1 MSD	↓	↓										↓
300370-1	A	Y										JM2 6/5/18
↓ -1 MS	↓	↓										↓
↓ -1 MSD	↓	↓										↓
300124-1	A	N	7						↑ tested w/ hydroxamine lot # BPH1587C S10			↓
Preobk	-	N	6						↓			↓
300379-22	A	Y						1000/5000	diluted due to matrix			↓
↓ -23	↓	↓		Y					HL			↓
300394-20	B	N	3					JM2 100/5000 6/5/18 1000/5000	Solid layer of sludge covering liquid portion			↓
↓ -21	A	Y										↓
↓ -22	↓	N	7					1000/5000	diluted due to matrix			↓
↓ -23	E	Y										↓
↓ -24	B	↓										↓
↓ -25	E	↓										↓
300394-22	B	Y										JM2 6/8/18
300370-1	C	↓										JM2 6/1/18
300379-22	↓	↓						1000/5000	diluted due to matrix			↓
↓ -23	A	↓		Y					HM			↓

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

06-15-2017
 5mL disposable pipettes, lot #: ~~06-245~~ 772 pH paper (<2.5SU), lot: 230715
~~6/6/18~~ 6/6/18 pH paper (0-14SU), lot: 1080 H271

	Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSV/OA?	# unused vials remaining	RR #	DF	Comments	hold	due	Rush \$	Initial/Date
1	300408-1	A	Y		Y					H/M				JMC 6/6/18
2	300441-1	D												
3	300444-1	B			Y				1000/5000	H/M, odor				
4	300412-24	A			Y					HL				
5	300441-1 MS D	D												
6	I -1 MSD I	I												
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														

TITLE	PROJECT	DATE
Continued from page		
Sample	Weight (g)	Comments: Initials
300379-13	A 37.59 - 30.508 - 0.2 = 6.88	No JMZ 6/5/18 B-6
↓ -14	↓ 37.67 - 30.600 - 0.2 = 6.87	↓ ↓ ↓
5 ↓ -15	↓ 37.63 - 30.510 - 0.2 = 6.92	
300379-16	A 38.60 - 30.561 - 0.2 = 7.84	No JMZ 6/5/18 B-6
↓ -17	↓ 38.32 - 30.627 - 0.2 = 7.49	↓ ↓ ↓
↓ -18	↓ 38.38 - 30.678 - 0.2 = 7.50	
↓ -19	↓ 38.26 - 30.588 - 0.2 = 7.47	
10 ↓ -20	↓ 35.97 - 30.619 - 0.2 = 5.15	
↓ -21	↓ 38.12 - 30.538 - 0.2 = 7.38	
300394-1	B 0.91	No CJN 6/6/18 B-6
↓ -2	↓ 0.93	
↓ -3	↓ 1.07	
15 ↓ -4	↓ 0.97	
↓ -5	↓ 1.04	
↓ -6	↓ 0.93	
↓ -7	↓ 1.06	
↓ -8	↓ 1.00	
20 ↓ -9	↓ 0.96	
↓ -10	↓ 1.01	
↓ -10 MS	↓ 0.98	
↓ -10 MSD	↓ 0.99	
↓ -11	↓ 1.00	
25 ↓ -12	↓ 0.93	
↓ -13	↓ 0.99	
↓ -14	↓ 1.03	
↓ -15	↓ 1.02	
↓ -16	↓ 0.92	
30 ↓ -17	↓ 1.00	
↓ -18	↓ 1.00	
↓ -19	↓ 0.90	
300442-1	A 0.95	No JMZ 6/6/18 B-6
300413-5	A 0.92	comp of 413-(1-4)
↓ -10	↓ 0.94	↓ -(6-9)
↓ -14	↓ 1.04	↓ -(11-13)
300412-1	A 38.23 - 30.522 - 0.2 = 7.51	
↓ -2	↓ 36.35 - 30.728 - 0.2 = 5.42	
↓ -3	↓ 37.65 - 30.672 - 0.2 = 6.78	
40 ↓ -4	↓ 38.13 - 30.843 - 0.2 = 7.09	
↓ -5	↓ 38.40 - 30.875 - 0.2 = 7.33	
↓ -6	↓ 38.63 - 30.490 - 0.2 = 7.94	
↓ -7	↓ 37.40 - 30.842 - 0.2 = 6.36	
300413-5 MS	1.04	
45 ↓ -5 MSD	↓ 0.99	
SIGNATURE		DATE
DISCLOSED TO AND UNDERSTOOD BY	DATE	PROPRIETARY INFORMATION

Continued to page

REPORTING SUMMARY FOR 300412 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
300412-024	Gasoline C7-C12	GC07	A	06/06/18 19:30
300412-024	Benzene	GC07	B	06/06/18 19:30
300412-024	Toluene	GC07	C	06/06/18 19:30
300412-024	Ethylbenzene	GC07	B	06/06/18 19:30
300412-024	m,p-Xylenes	GC07	B	06/06/18 19:30
300412-024	o-Xylene	GC07	B	06/06/18 19:30
300412-024	Bromofluorobenzene (FID)	GC07	A	06/06/18 19:30
300412-024	Bromofluorobenzene (PID)	GC07	B	06/06/18 19:30
QC934795	Gasoline C7-C12	GC07	A	06/06/18 13:45
QC934795	Benzene	GC07	B	06/06/18 13:45
QC934795	Toluene	GC07	B	06/06/18 13:45
QC934795	Ethylbenzene	GC07	B	06/06/18 13:45
QC934795	m,p-Xylenes	GC07	B	06/06/18 13:45
QC934795	o-Xylene	GC07	B	06/06/18 13:45
QC934795	Bromofluorobenzene (FID)	GC07	A	06/06/18 13:45
QC934795	Bromofluorobenzene (PID)	GC07	B	06/06/18 13:45
QC934792	Gasoline C7-C12	GC07	A	06/06/18 11:17
QC934792	Bromofluorobenzene (FID)	GC07	A	06/06/18 11:17
QC934793	Benzene	GC07	C	06/06/18 10:38
QC934793	Toluene	GC07	C	06/06/18 10:38
QC934793	Ethylbenzene	GC07	C	06/06/18 10:38
QC934793	m,p-Xylenes	GC07	C	06/06/18 10:38
QC934793	o-Xylene	GC07	C	06/06/18 10:38
QC934793	Bromofluorobenzene (PID)	GC07	C	06/06/18 10:38
QC934794	Benzene	GC07	B	06/06/18 11:55
QC934794	Toluene	GC07	B	06/06/18 11:55
QC934794	Ethylbenzene	GC07	B	06/06/18 11:55
QC934794	m,p-Xylenes	GC07	B	06/06/18 11:55
QC934794	o-Xylene	GC07	B	06/06/18 11:55
QC934794	Bromofluorobenzene (PID)	GC07	B	06/06/18 11:55
QC934796	Gasoline C7-C12	GC07	A	06/06/18 22:03
QC934796	Bromofluorobenzene (FID)	GC07	A	06/06/18 22:03
QC934797	Gasoline C7-C12	GC07	A	06/06/18 22:41
QC934797	Bromofluorobenzene (FID)	GC07	A	06/06/18 22:41

Laboratory Job Number 300412

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Soil

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID:	BR11-1SB013[3]	Batch#:	260234
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-001	Prep:	EPA 5035
Moisture:	17%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.014 J	0.16	0.0085

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	80	64-134

Field ID:	BR11-1SB013[5]	Batch#:	260234
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-002	Prep:	EPA 5035
Moisture:	17%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.017 J	0.22	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Field ID:	BR11-1SB013[7]	Batch#:	260234
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-003	Prep:	EPA 5035
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.013 J	0.17	0.0092

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-134

Field ID:	BR11-1SB013[10]	Batch#:	260234
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-004	Prep:	EPA 5035
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.16	0.0087

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID:	BR11-1SB013[15]	Batch#:	260234
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-005	Prep:	EPA 5035
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.0084 J	0.16	0.0084

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-134

Field ID:	BR11-1SB013[20]	Batch#:	260234
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-006	Prep:	EPA 5035
Moisture:	17%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.0099 J	0.15	0.0080

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-134

Field ID:	BR11-1SB013[25]	Batch#:	260234
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-007	Prep:	EPA 5035
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.015 J	0.18	0.0098

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-134

Field ID:	BR11-1SB013[30]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-008	Prep:	EPA 5035
Moisture:	10%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.15	0.0097

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	121	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID:	BR11-1SB013[35]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-009	Prep:	EPA 5035
Moisture:	8%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	64-134

Field ID:	BR11-1SB013[40]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-010	Prep:	EPA 5035
Moisture:	8%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.021 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	121	64-134

Field ID:	BR11-1SB013[45]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-011	Prep:	EPA 5035
Moisture:	10%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.021 J	0.15	0.0093

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-134

Field ID:	BR11-1SB013[50]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-012	Prep:	EPA 5035
Moisture:	13%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.030 J	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID:	DUP06052018-01	Batch#:	260314
Type:	SAMPLE	Analyzed:	06/08/18
Lab ID:	300412-013	Prep:	EPA 5035
Moisture:	8%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.029 J	0.15	0.0099

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	64-134

Field ID:	BR11-1SB017[3]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-014	Prep:	EPA 5035
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.19	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	64-134

Field ID:	BR11-1SB017[5]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/07/18
Lab ID:	300412-015	Prep:	EPA 5035
Moisture:	17%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	64-134

Field ID:	BR11-1SB017[7]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/08/18
Lab ID:	300412-016	Prep:	EPA 5035
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID:	BR11-1SB017[10]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/08/18
Lab ID:	300412-017	Prep:	EPA 5035
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.011 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	122	64-134

Field ID:	BR11-1SB017[15]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/08/18
Lab ID:	300412-018	Prep:	EPA 5035
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	0.15	0.0098

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	64-134

Field ID:	BR11-1SB017[20]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/08/18
Lab ID:	300412-019	Prep:	EPA 5035
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.030 J	0.16	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	119	64-134

Field ID:	BR11-1SB017[25]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/08/18
Lab ID:	300412-020	Prep:	EPA 5035
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.015 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID:	BR11-1SB017[30]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/12/18
Lab ID:	300412-021	Prep:	EPA 5030B
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.24 J	1.3	0.082

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	64-134

Field ID:	BR11-1SB017[35]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/08/18
Lab ID:	300412-022	Prep:	EPA 5035
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.026 J	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	64-134

Field ID:	BR11-1SB017[40]	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/08/18
Lab ID:	300412-023	Prep:	EPA 5035
Moisture:	19%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.029 J	0.18	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	64-134

Field ID:	DUP06052018-02	Batch#:	260273
Type:	SAMPLE	Analyzed:	06/08/18
Lab ID:	300412-025	Prep:	EPA 5035
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.034 J	0.19	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Type: BLANK Analyzed: 06/06/18
 Lab ID: QC934820 Prep: EPA 5035
 Batch#: 260234

Analyte	Result	RL	MDL
Gasoline C7-C12	0.019 J	0.20	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

Type: BLANK Analyzed: 06/07/18
 Lab ID: QC934971 Prep: EPA 5035
 Batch#: 260273

Analyte	Result	RL	MDL
Gasoline C7-C12	0.028 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	64-134

Type: BLANK Analyzed: 06/08/18
 Lab ID: QC935156 Prep: EPA 5035
 Batch#: 260314

Analyte	Result	RL	MDL
Gasoline C7-C12	0.039 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	79	64-134

Type: BLANK Analyzed: 06/11/18
 Lab ID: QC935426 Prep: EPA 5035
 Batch#: 260383

Analyte	Result	RL	MDL
Gasoline C7-C12	0.046 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	88	64-134

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC934819	Batch#:	260234
Matrix:	Soil	Analyzed:	06/06/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.128	113	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	260273
Units:	mg/Kg	Analyzed:	06/07/18
Diln Fac:	1.000		

Type: BS Lab ID: QC934969

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.147	115	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	64-134

Type: BSD Lab ID: QC934970

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2.000	1.901	95	80-120	19	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	64-134

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	260314
Units:	mg/Kg	Analyzed:	06/08/18
Diln Fac:	1.000		

Type: BS Lab ID: QC935154

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9946	99	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	64-134

Type: BSD Lab ID: QC935155

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.060	106	80-120	6	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-134

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC935423	Batch#:	260383
Matrix:	Soil	Analyzed:	06/11/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.101	110	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	64-134

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	300497-034	Batch#:	260383
Matrix:	Soil	Sampled:	06/07/18
Units:	mg/Kg	Received:	06/07/18
Basis:	as received	Analyzed:	06/11/18

Type: MS Lab ID: QC935424

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1410	10.10	8.742	85	46-120

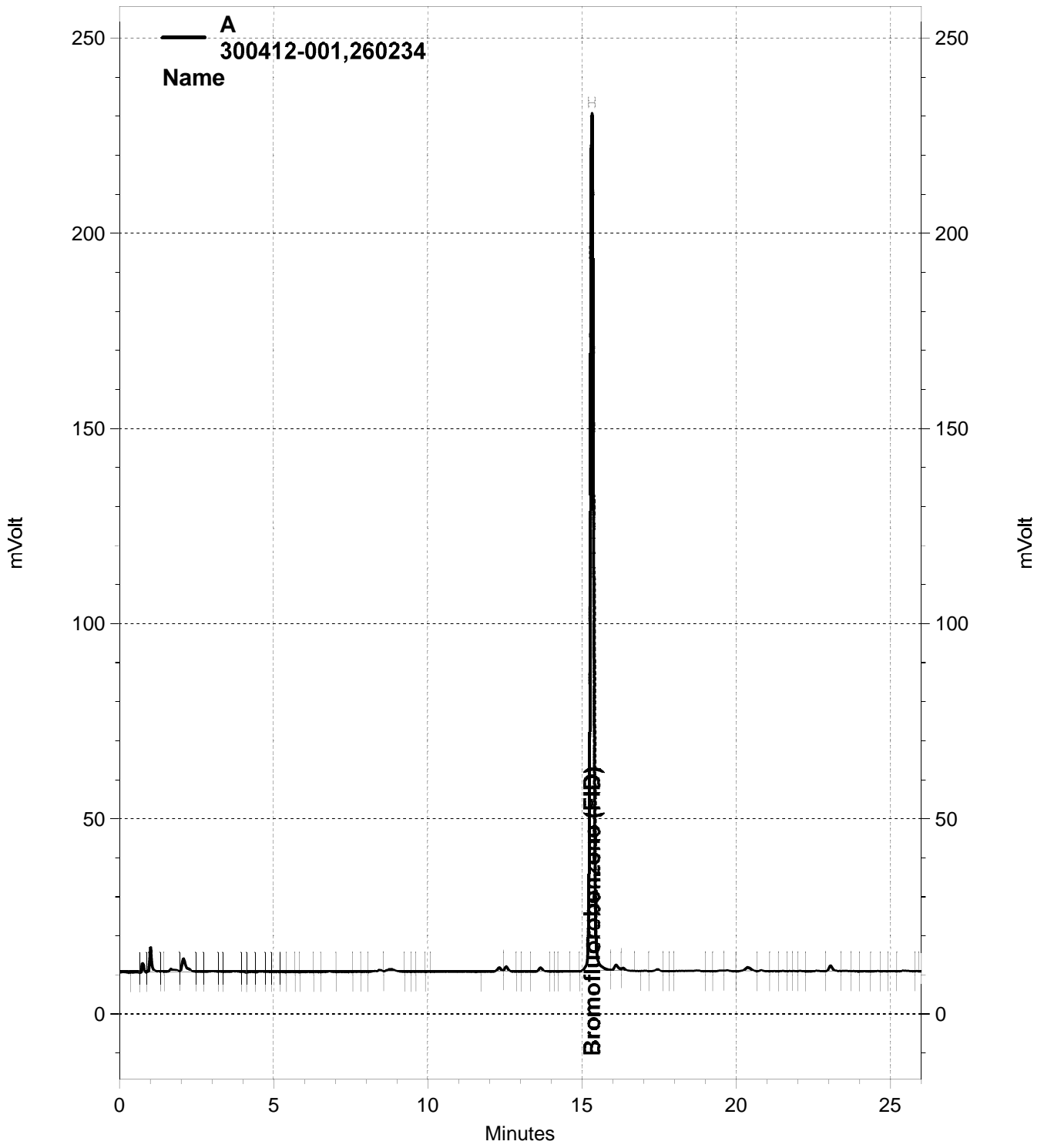
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	64-134

Type: MSD Lab ID: QC935425

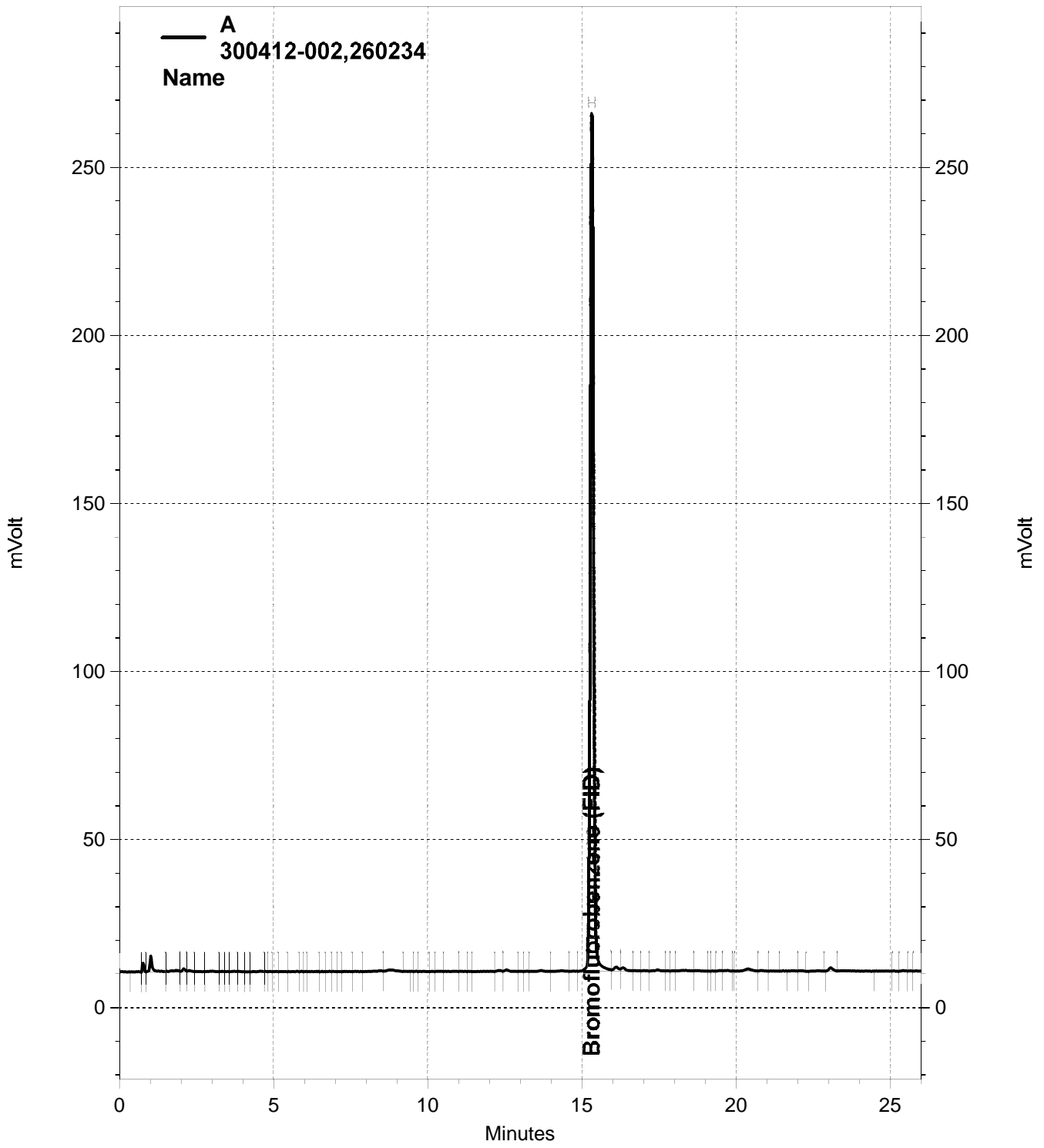
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.99	11.05	99	46-120	15	33

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	64-134

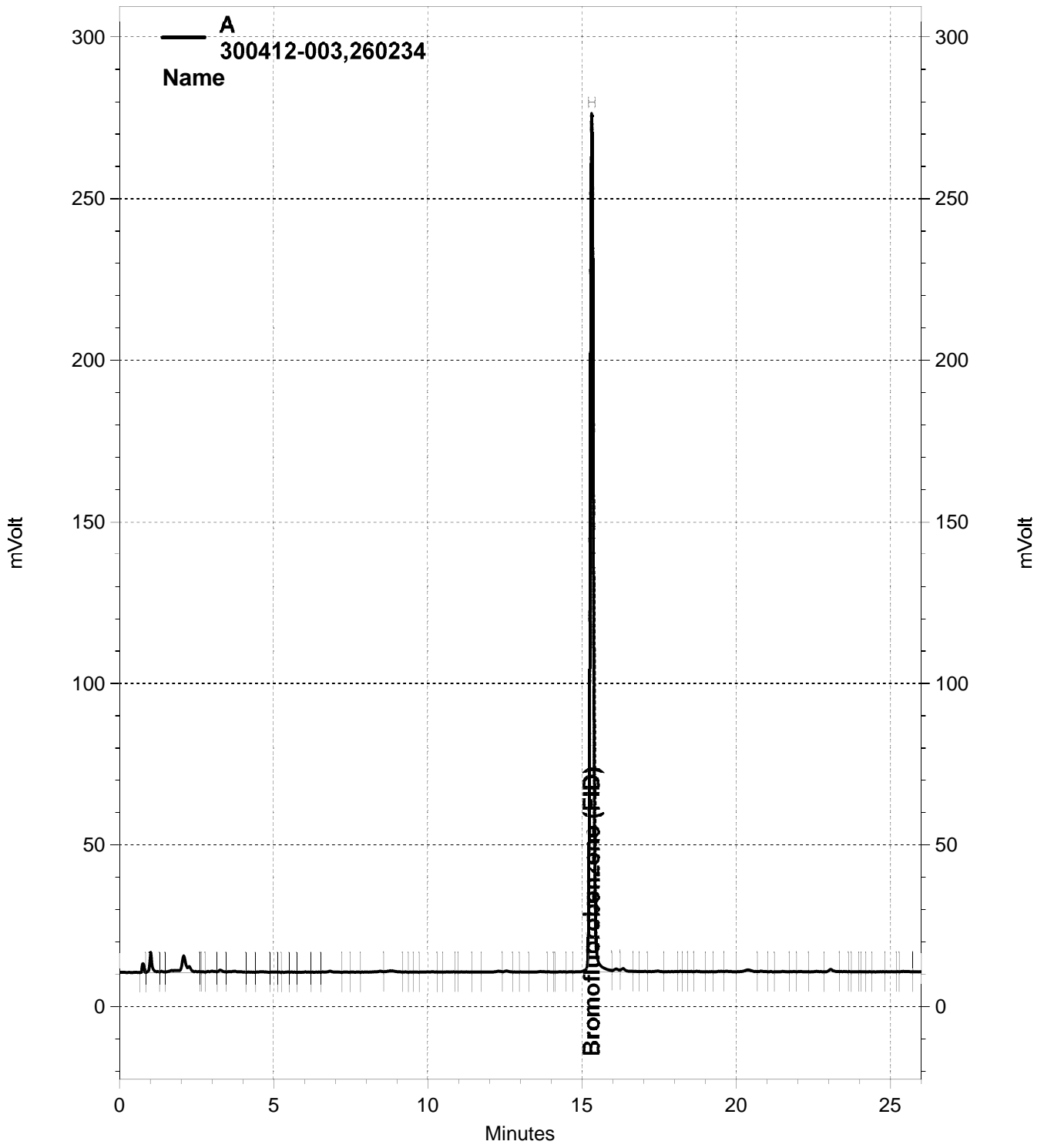
RPD= Relative Percent Difference



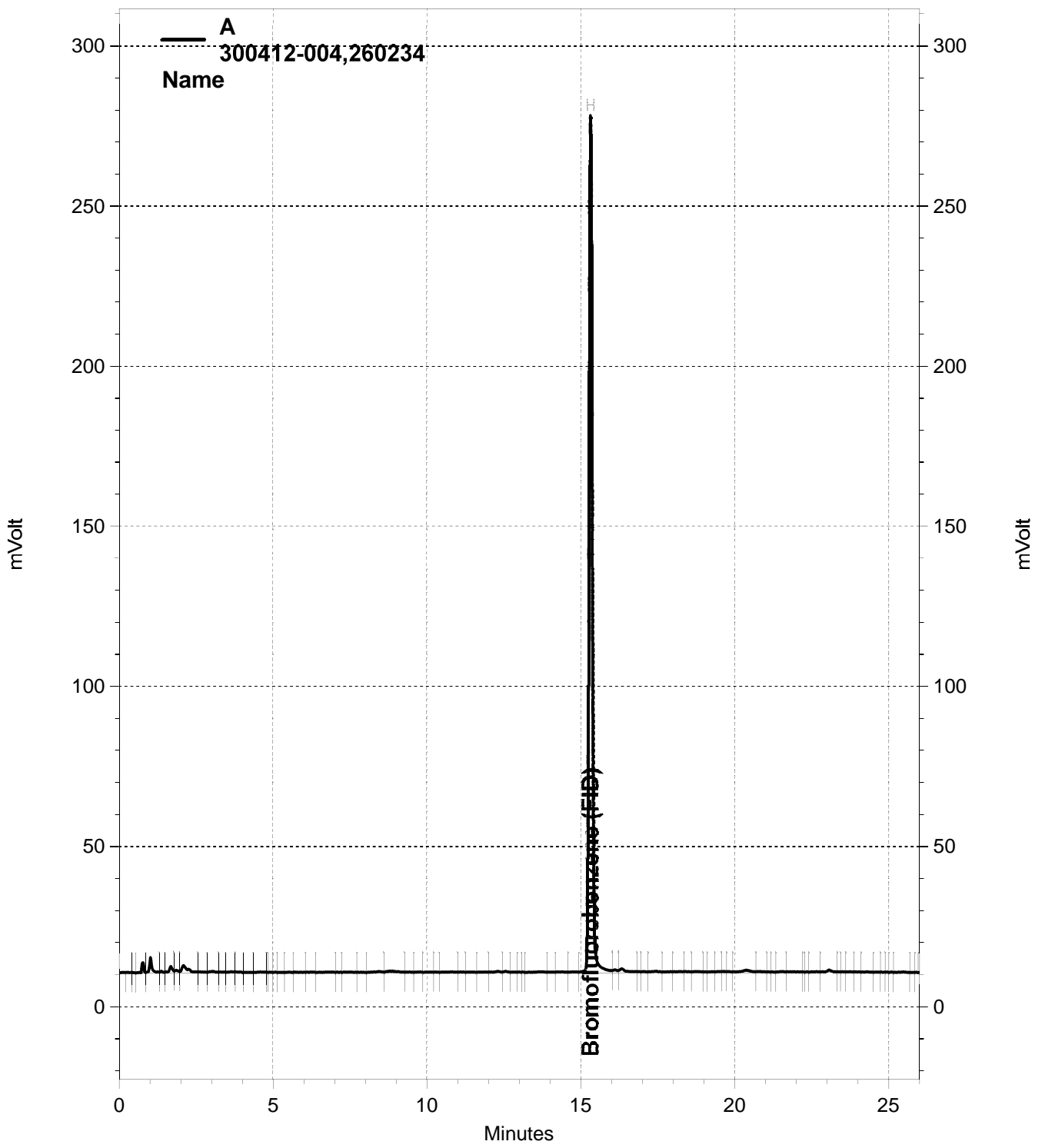
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-024, A



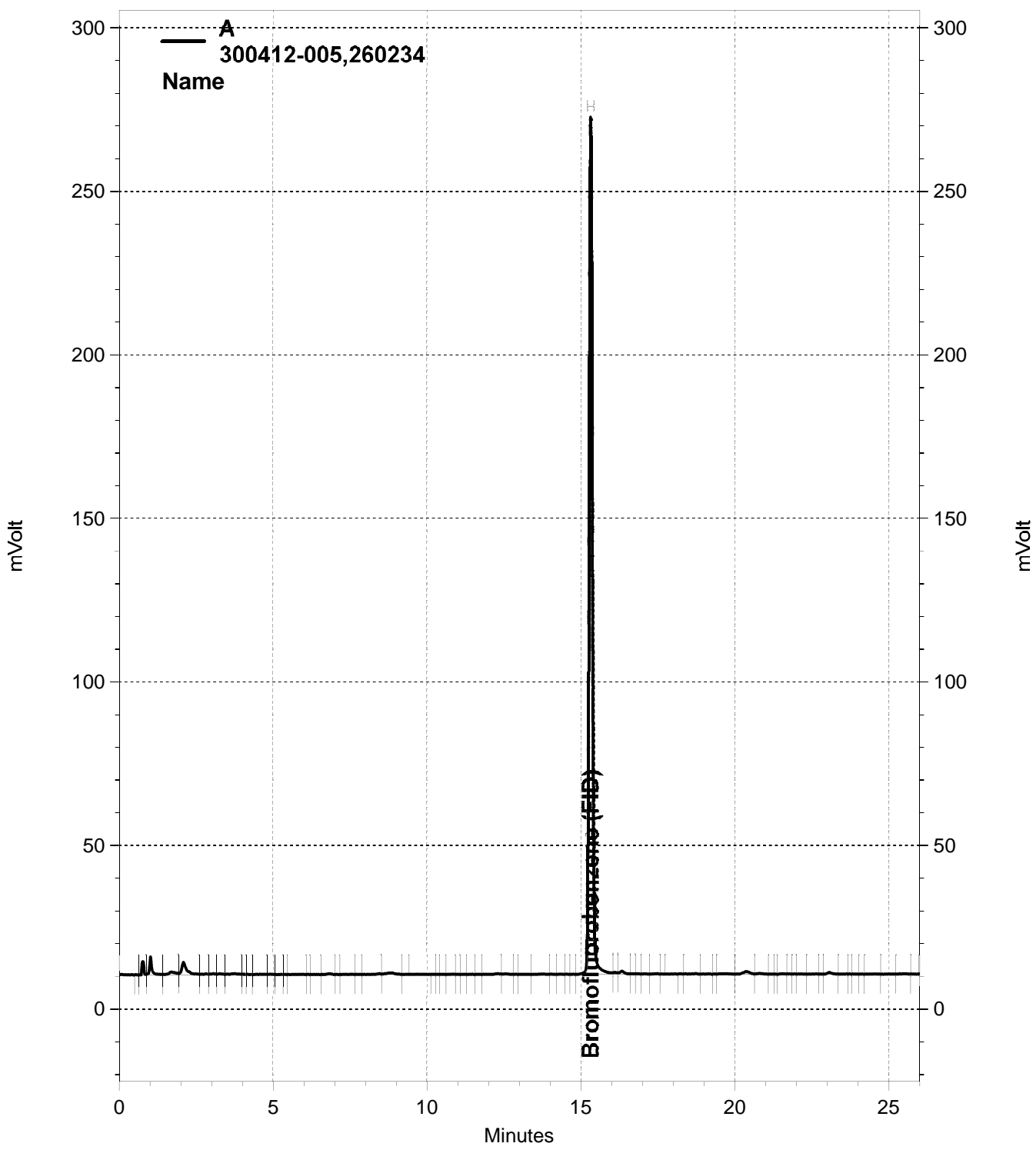
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-025, A



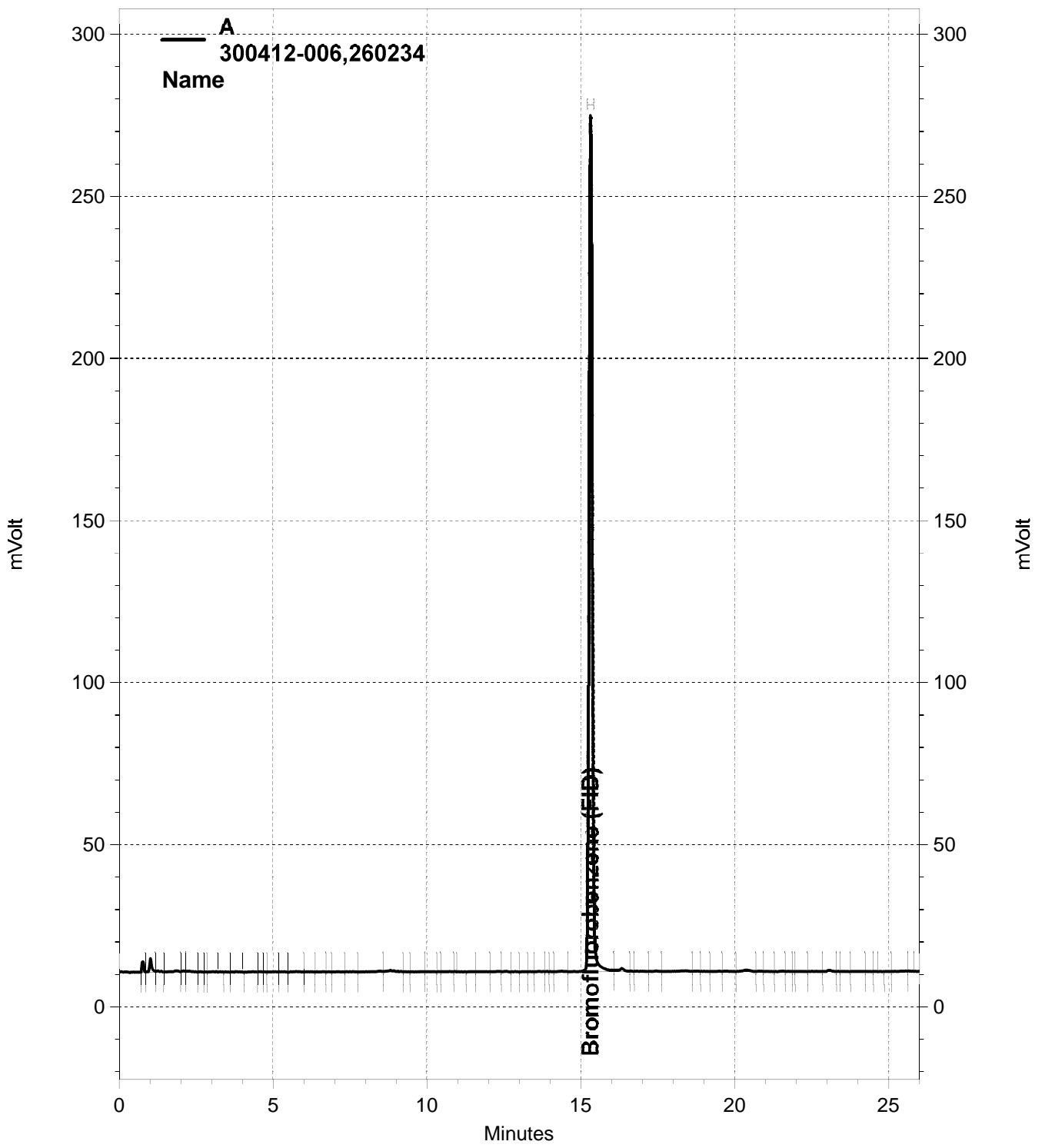
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-026, A



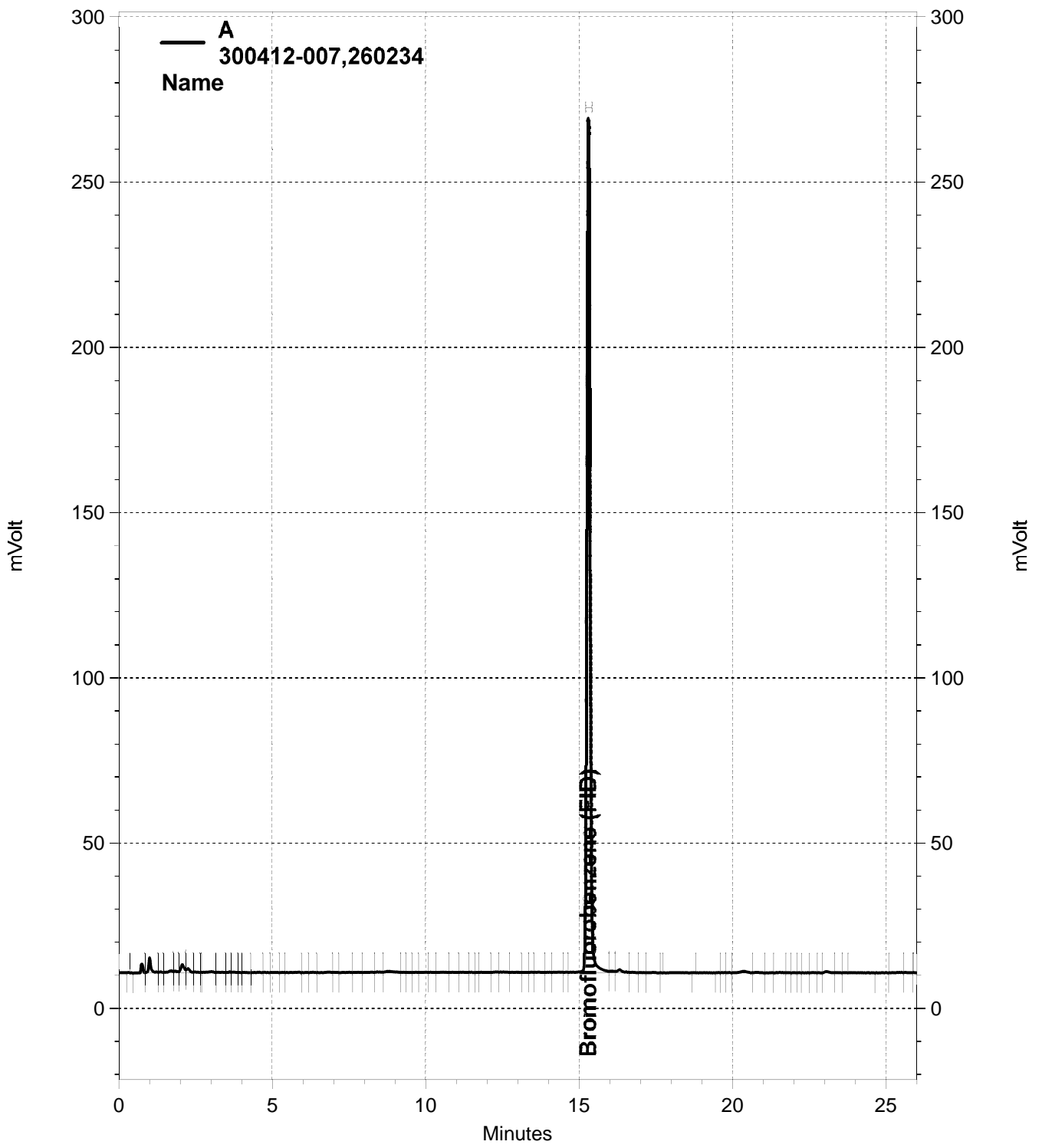
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-027, A



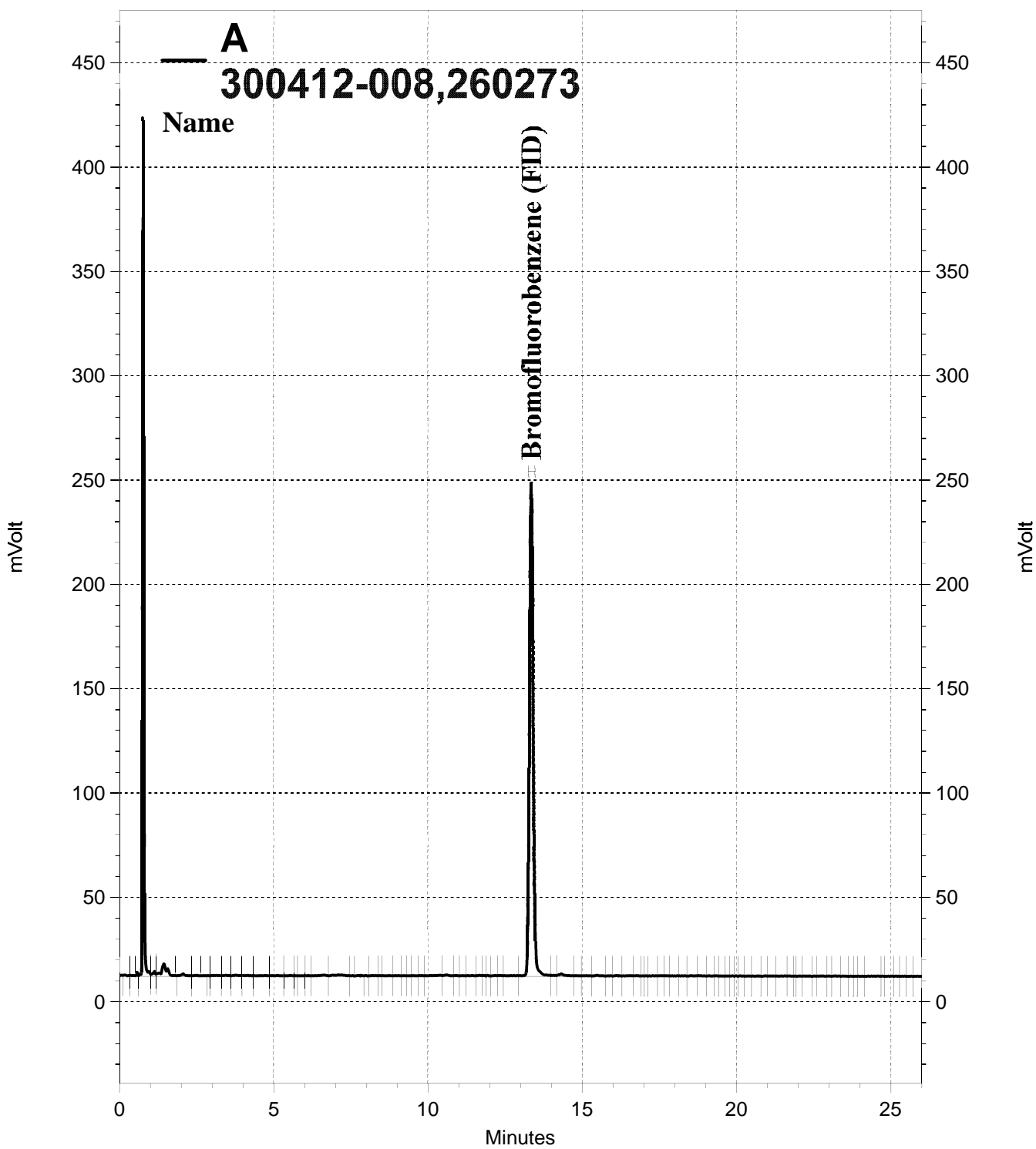
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-028, A



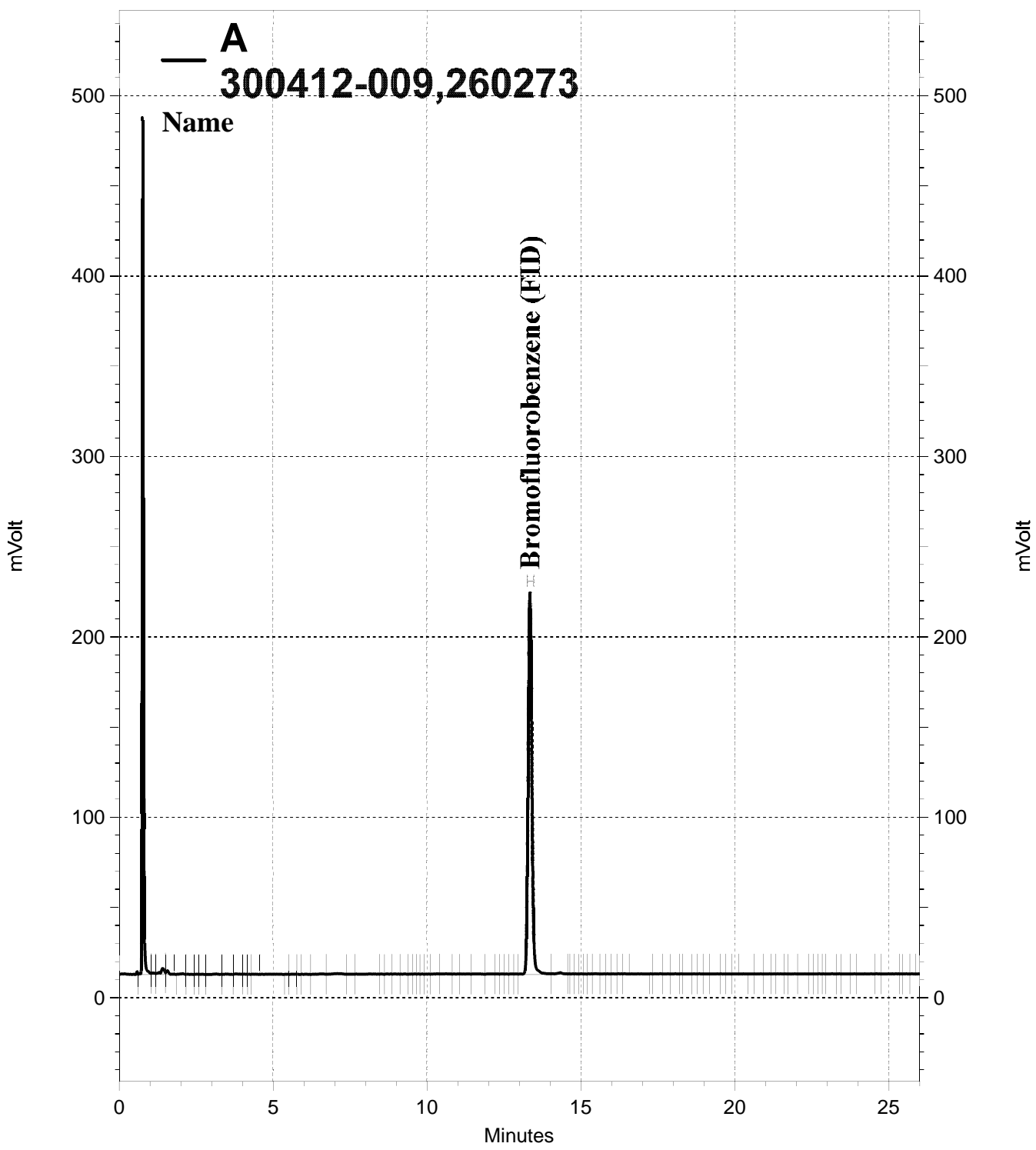
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-029, A



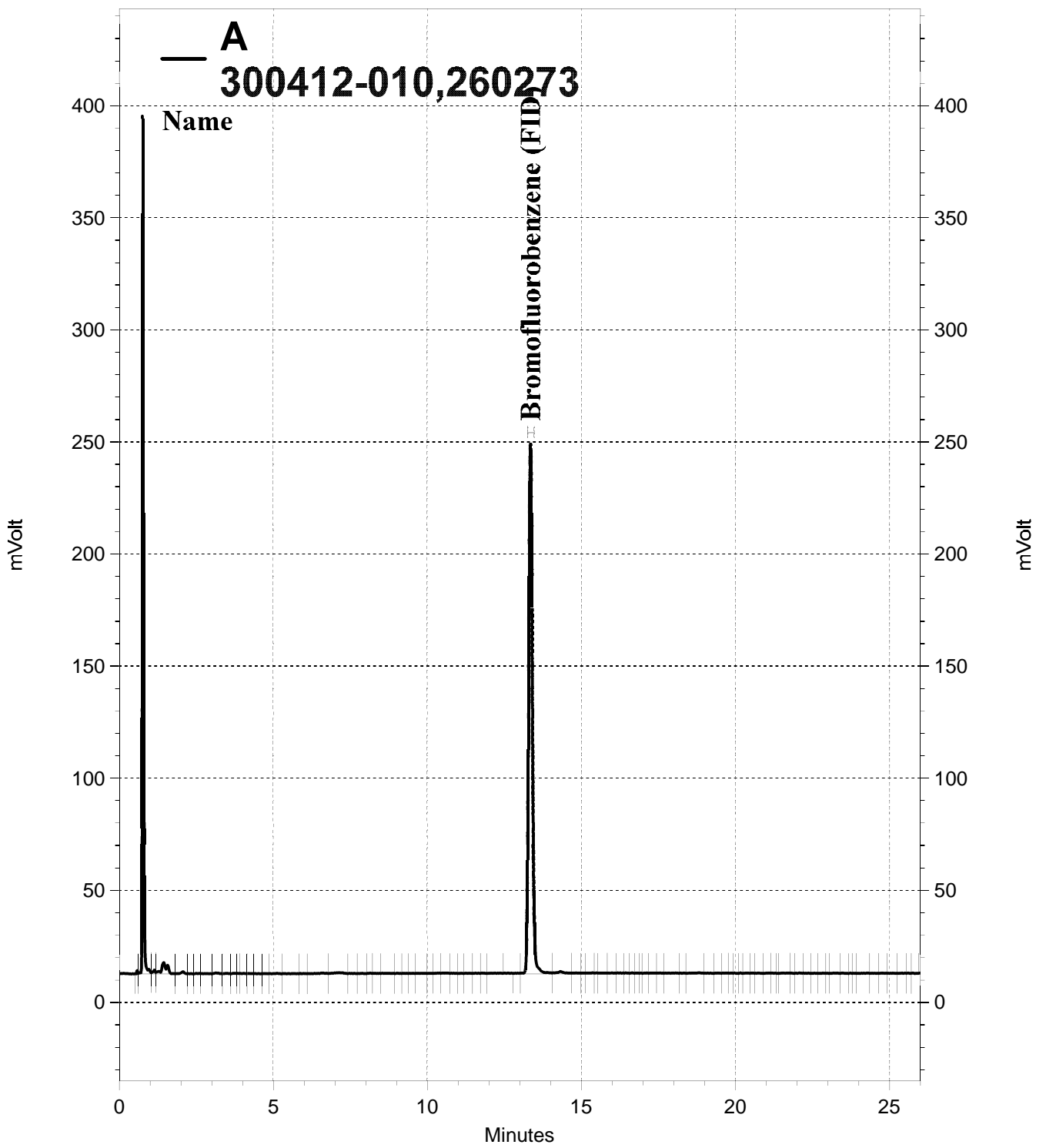
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-030, A



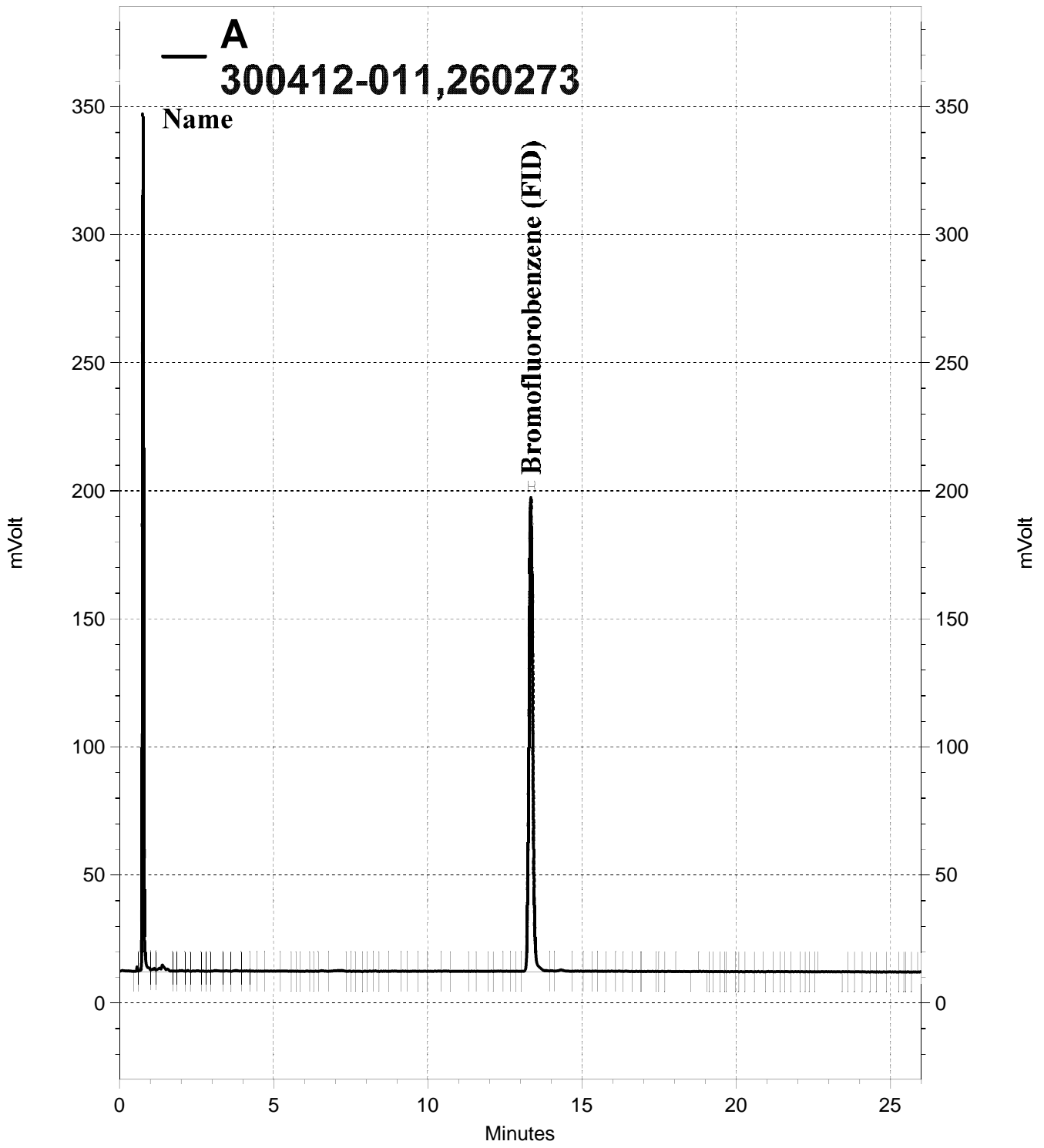
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-016, A



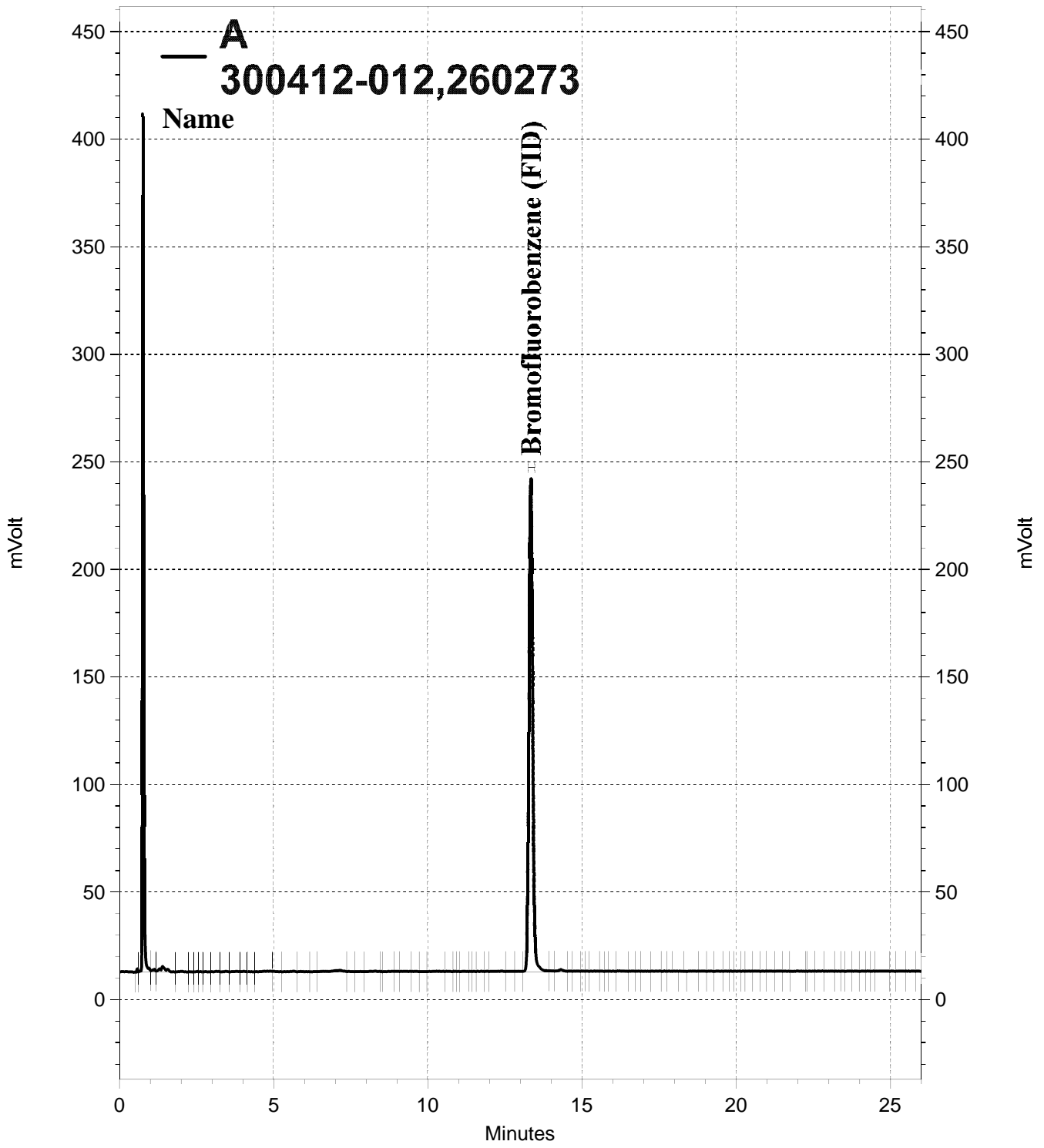
\\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-017, A



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-018, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-019, A

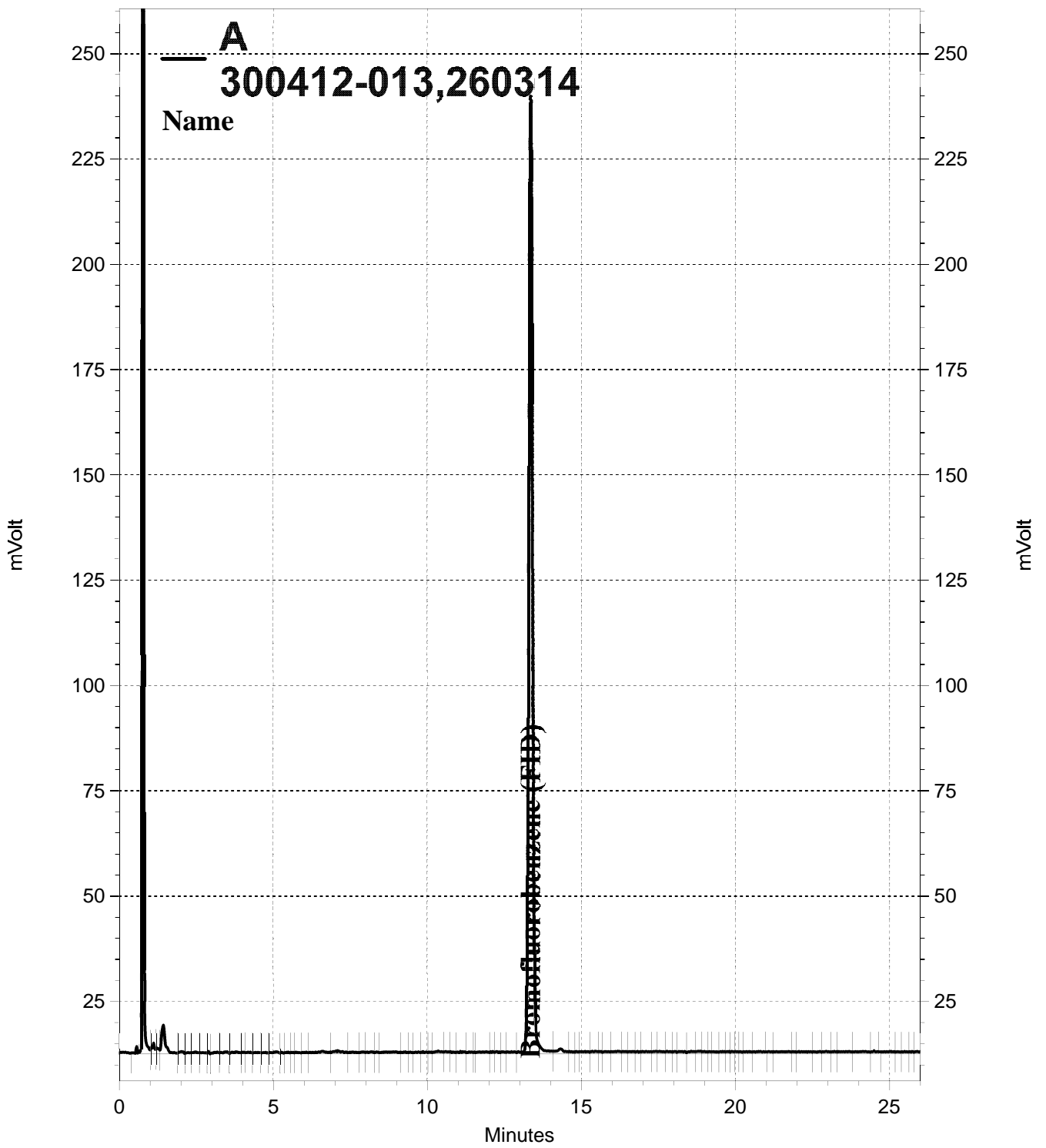


A
300412-012,260273

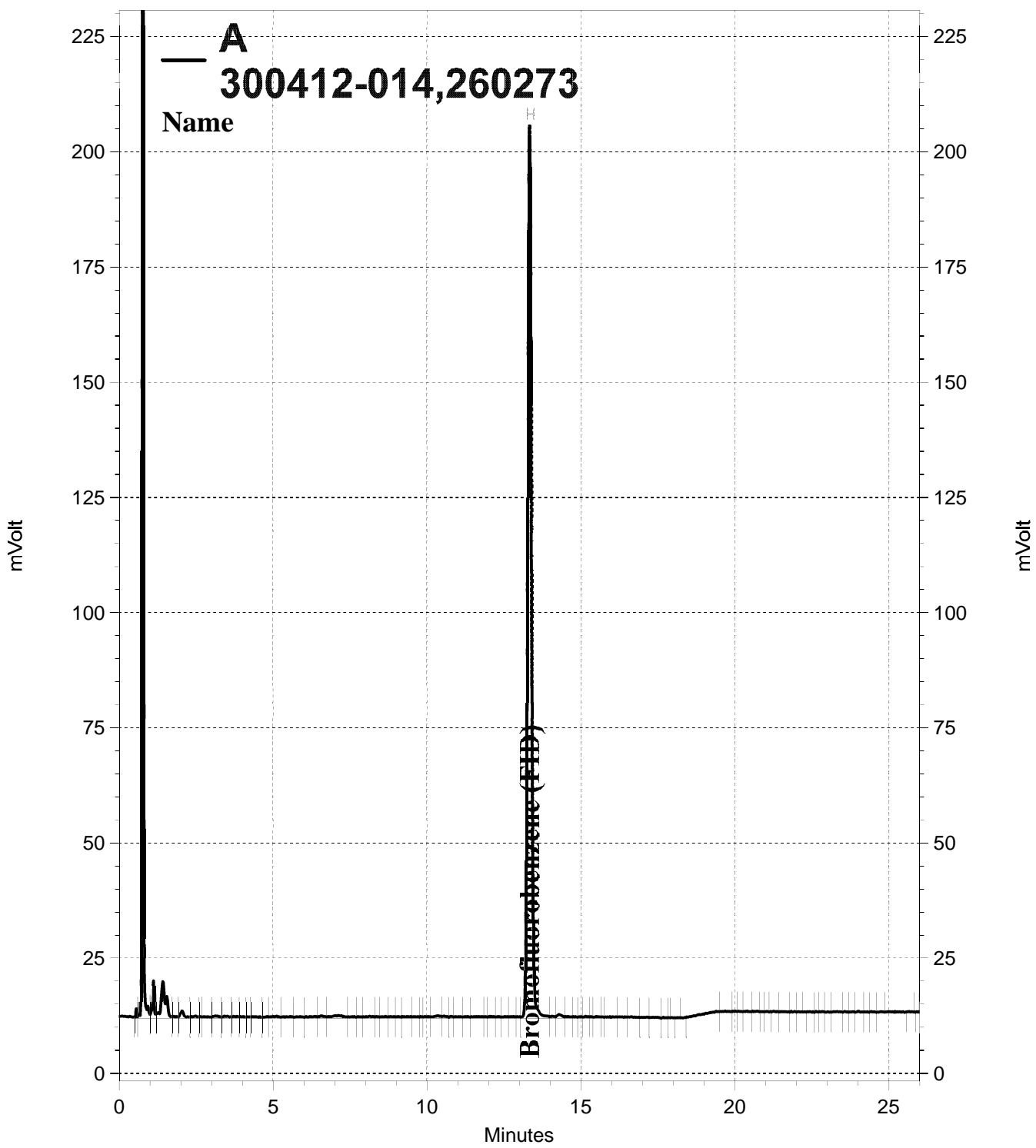
Name

Bromofluorobenzene (FID)

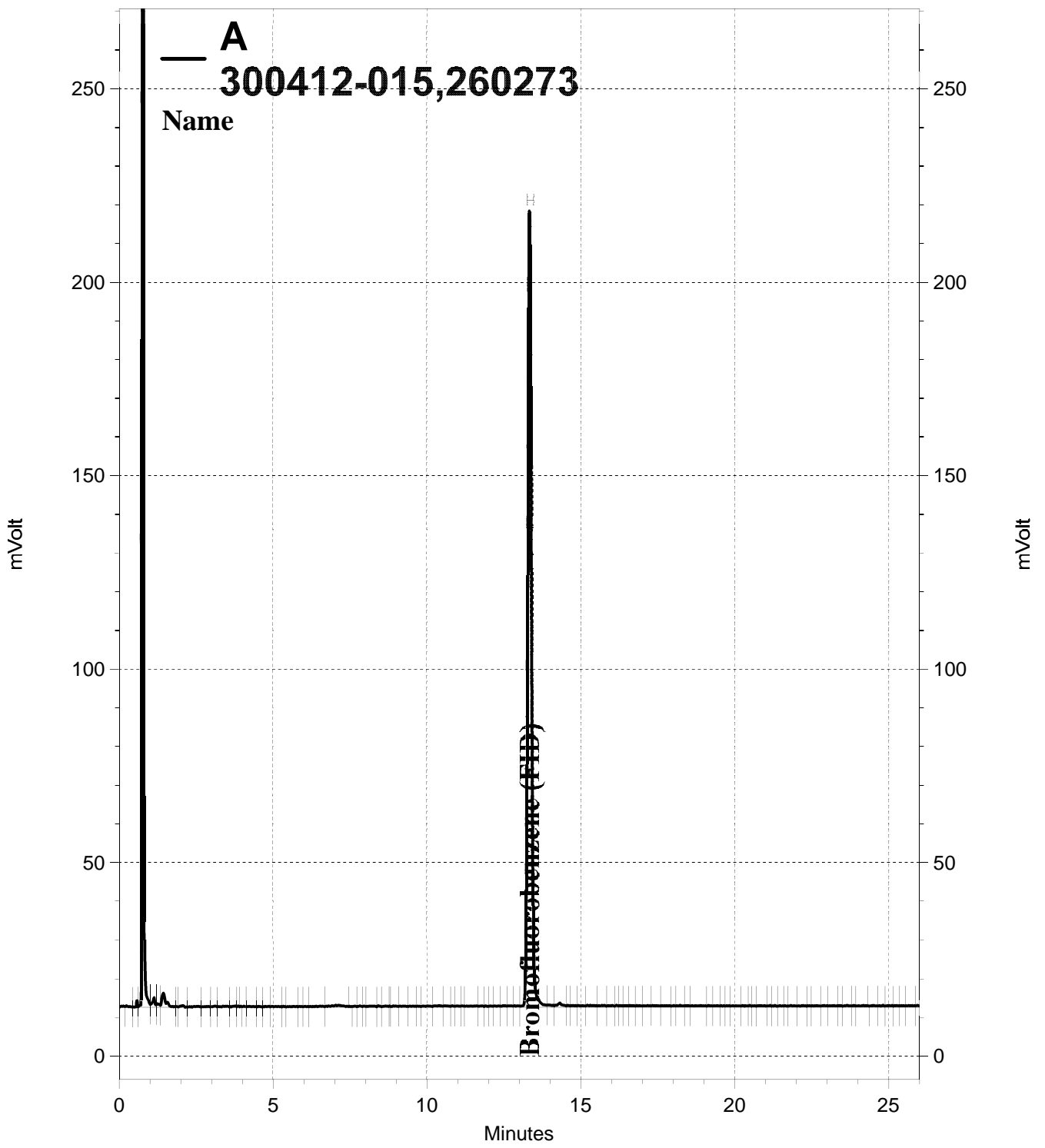
\\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-020, A



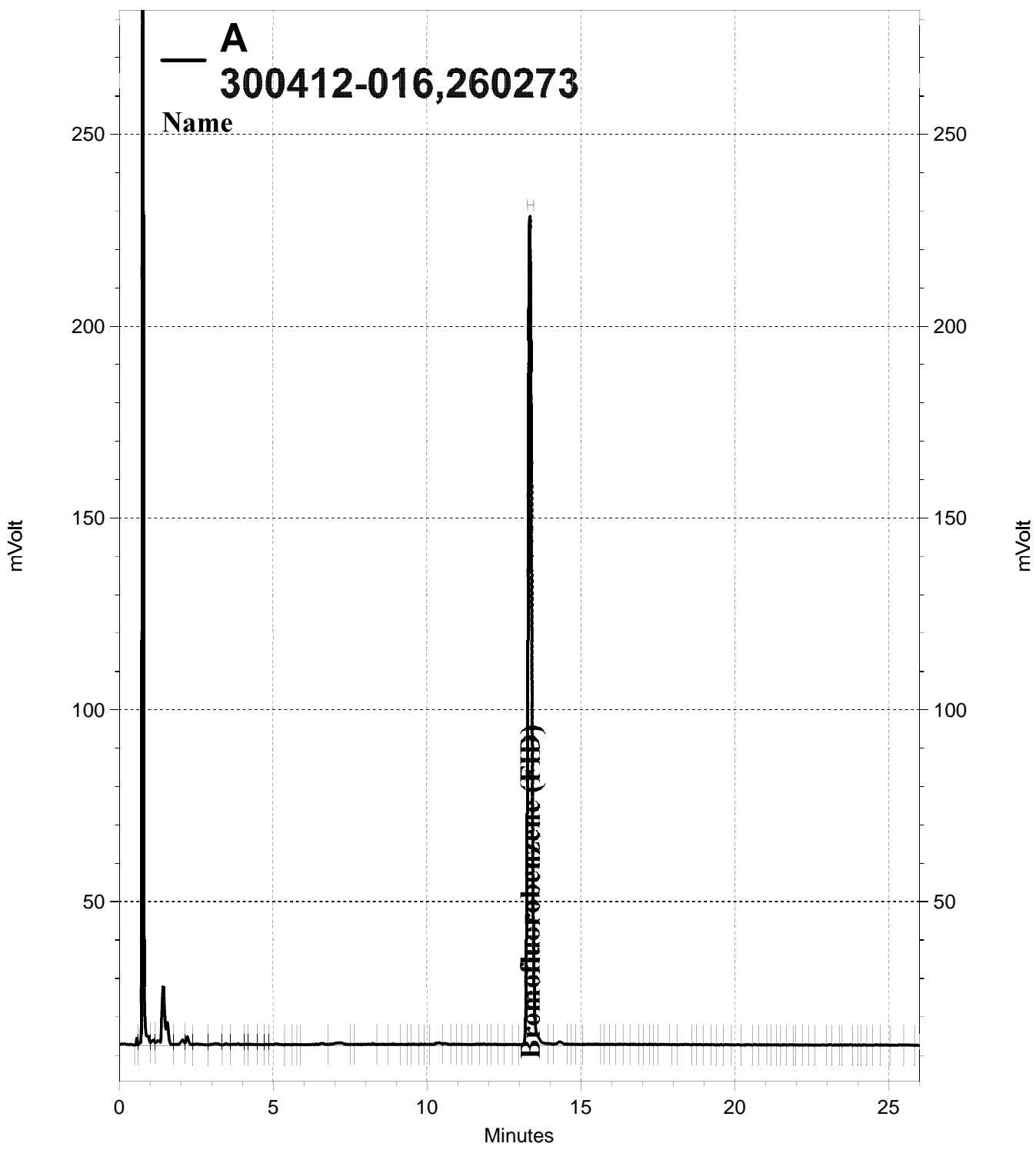
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\159-018, A



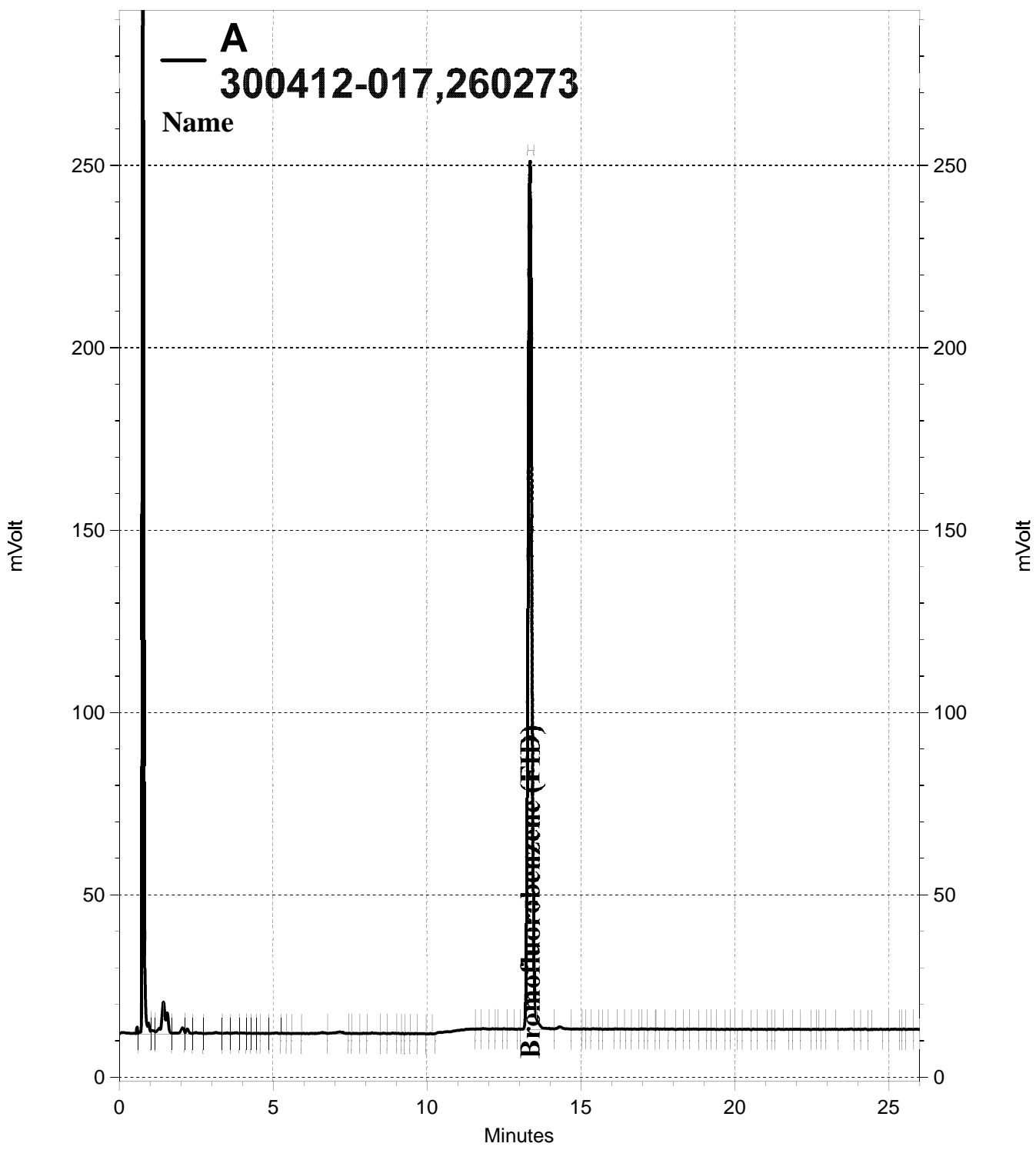
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-022, A



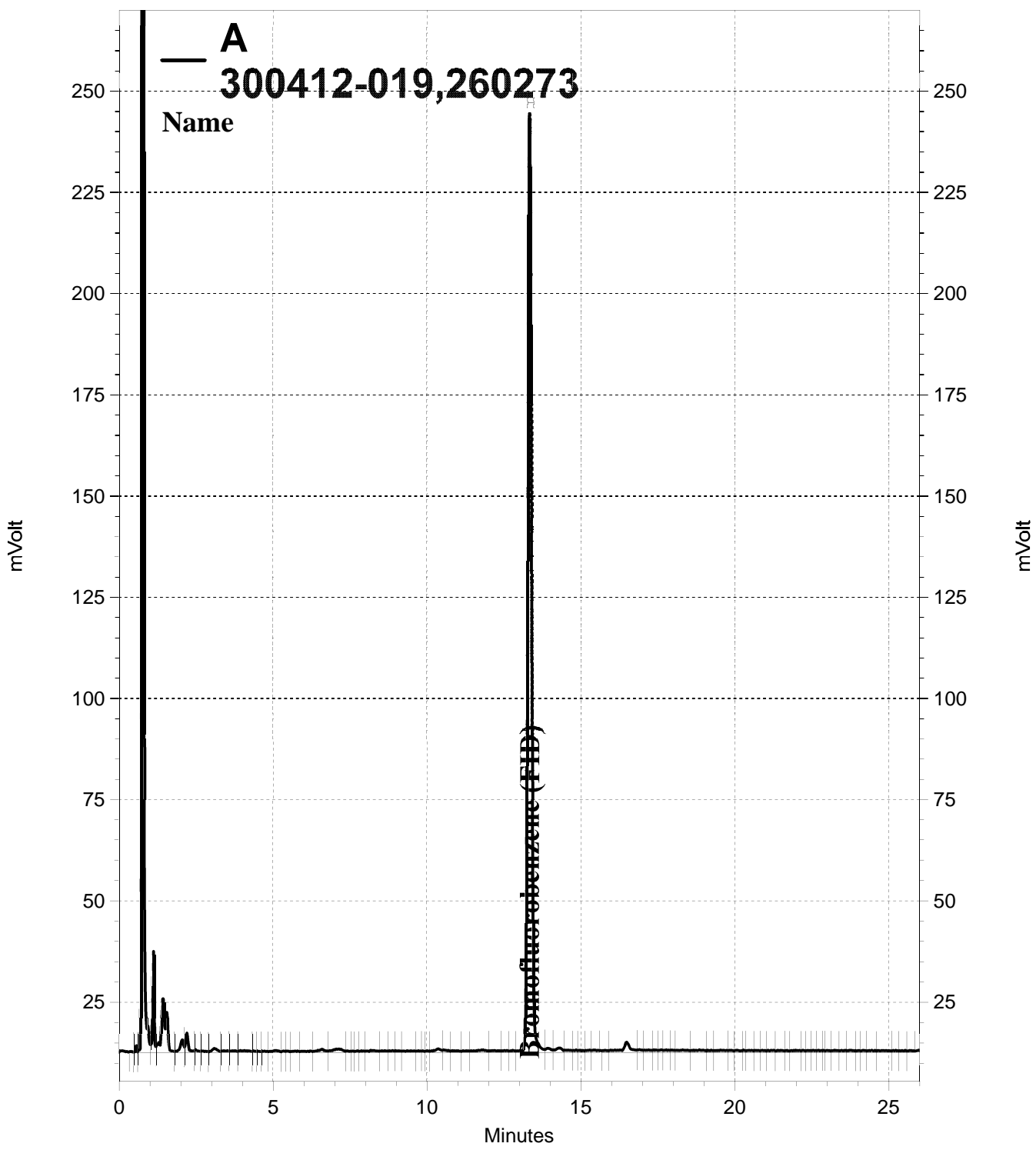
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-023, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-024, A

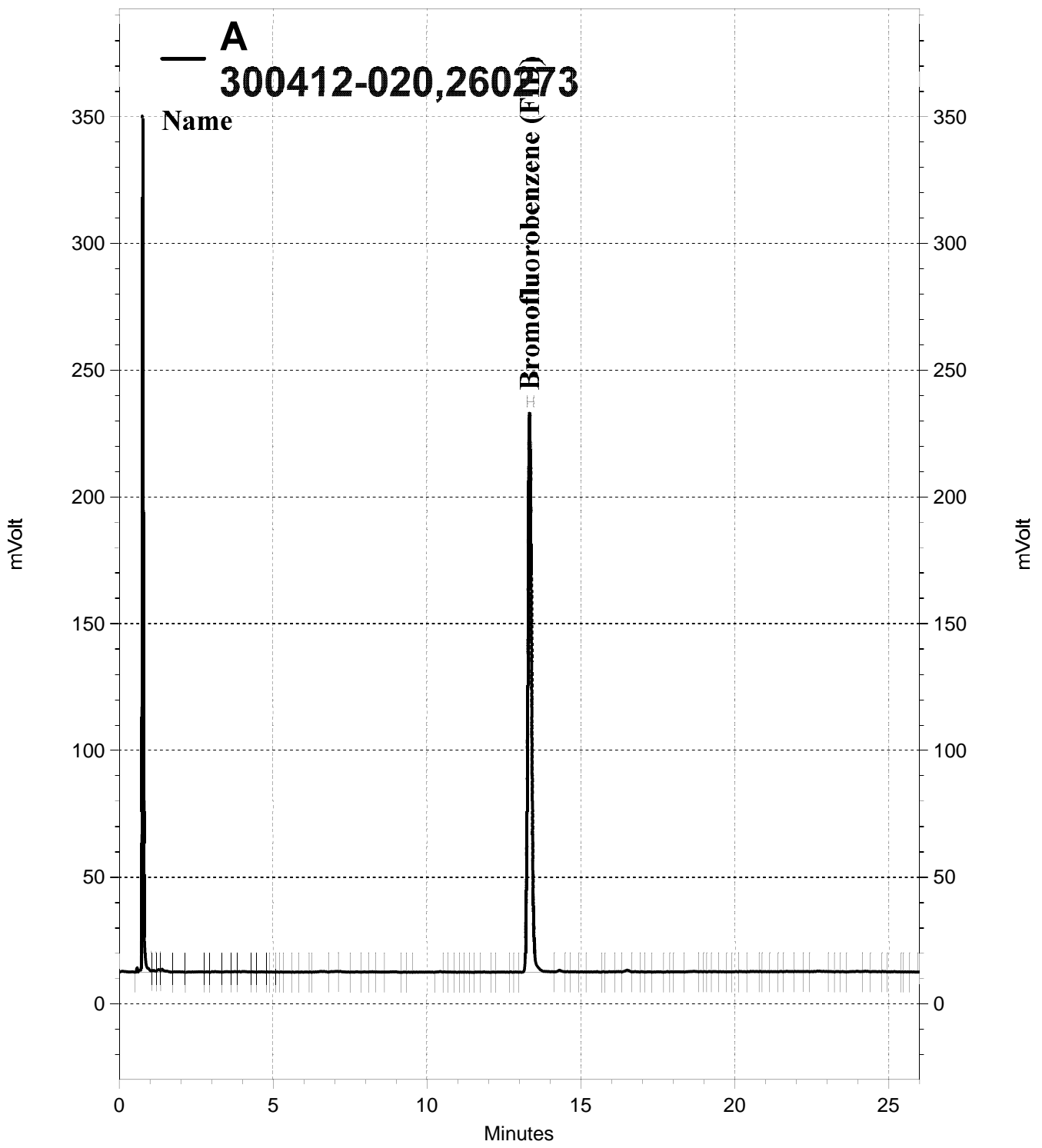


— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-025, A

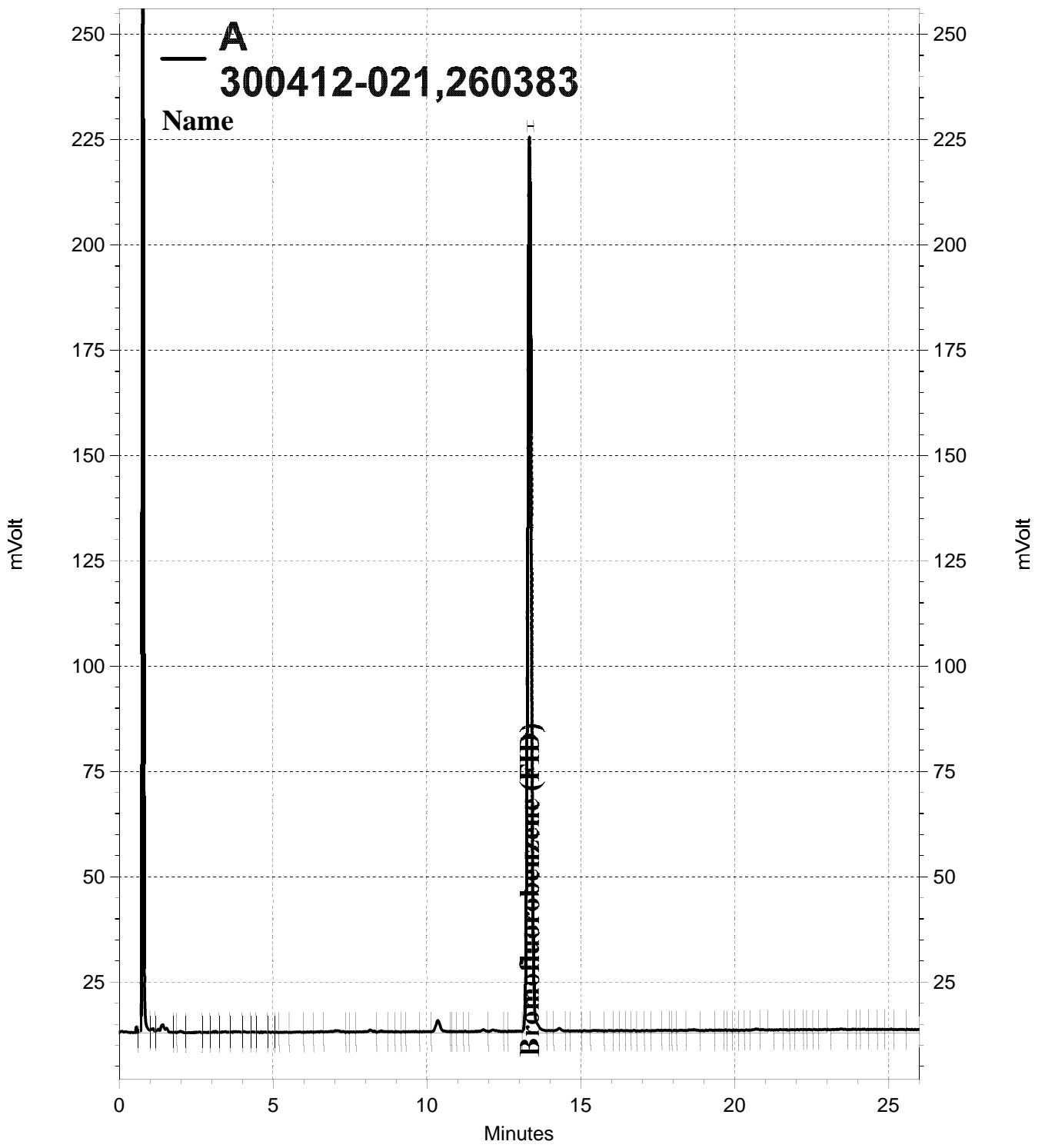


A
300412-019,260273
Name

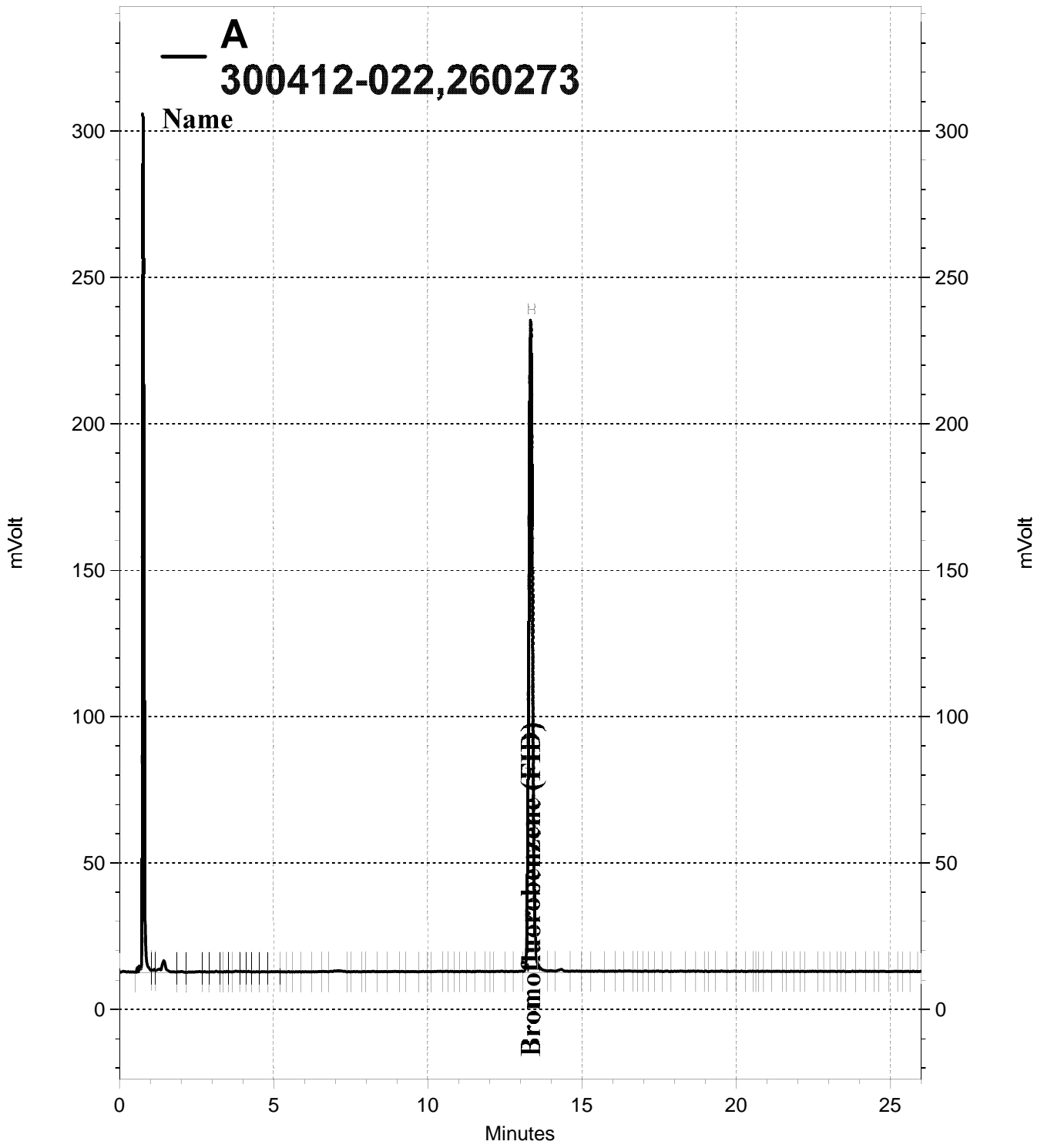
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-029, A



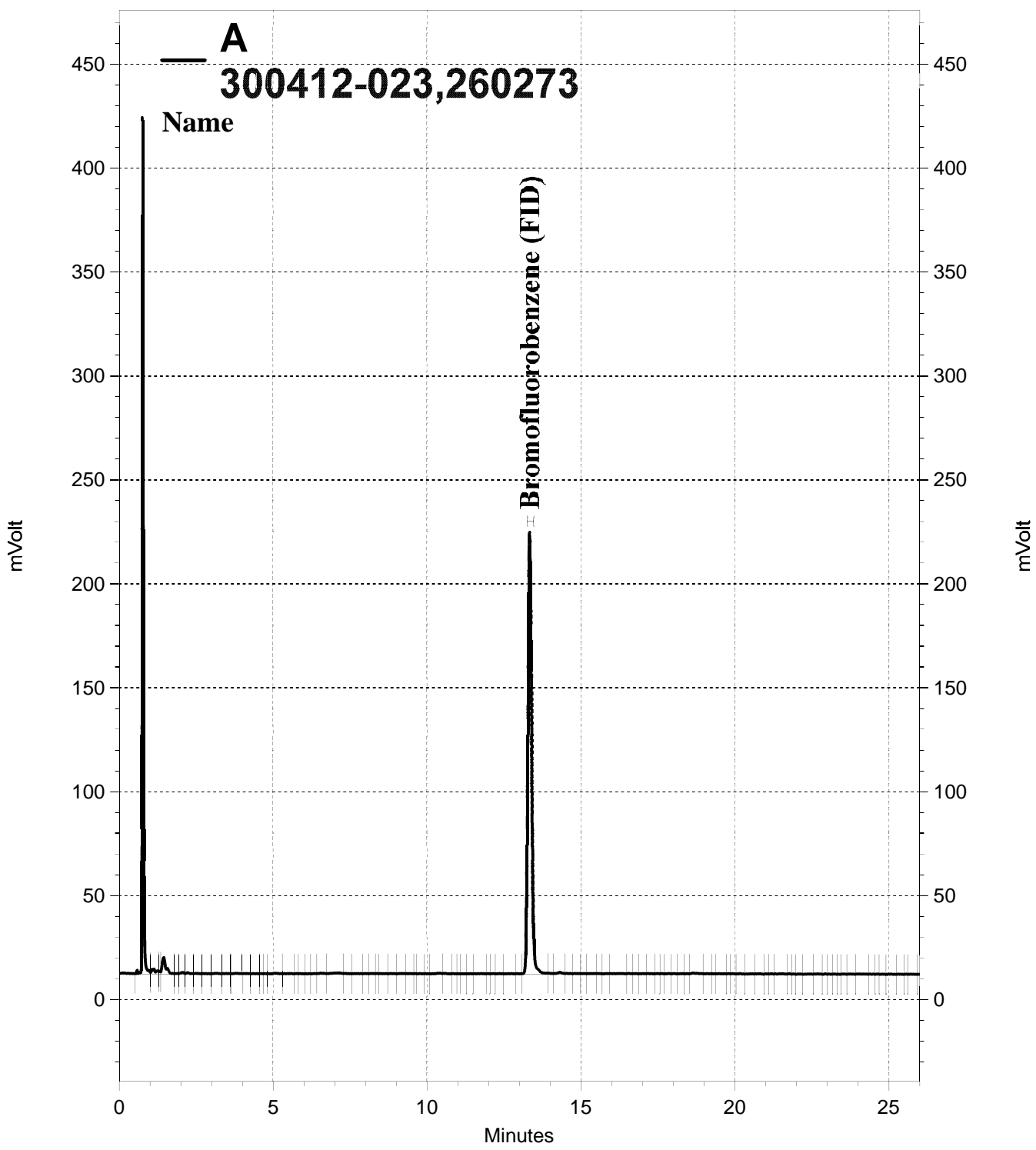
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-030, A



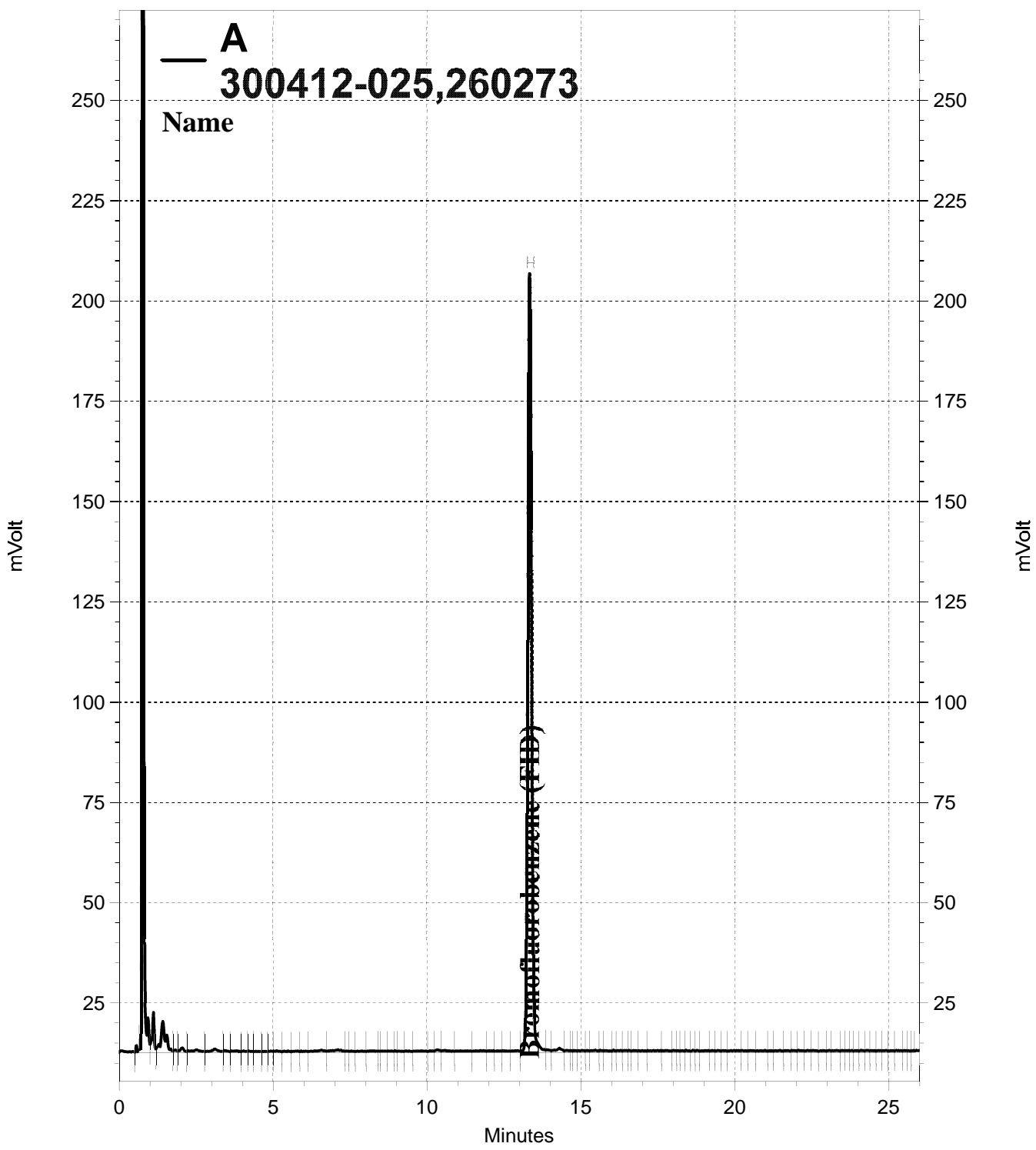
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-030, A



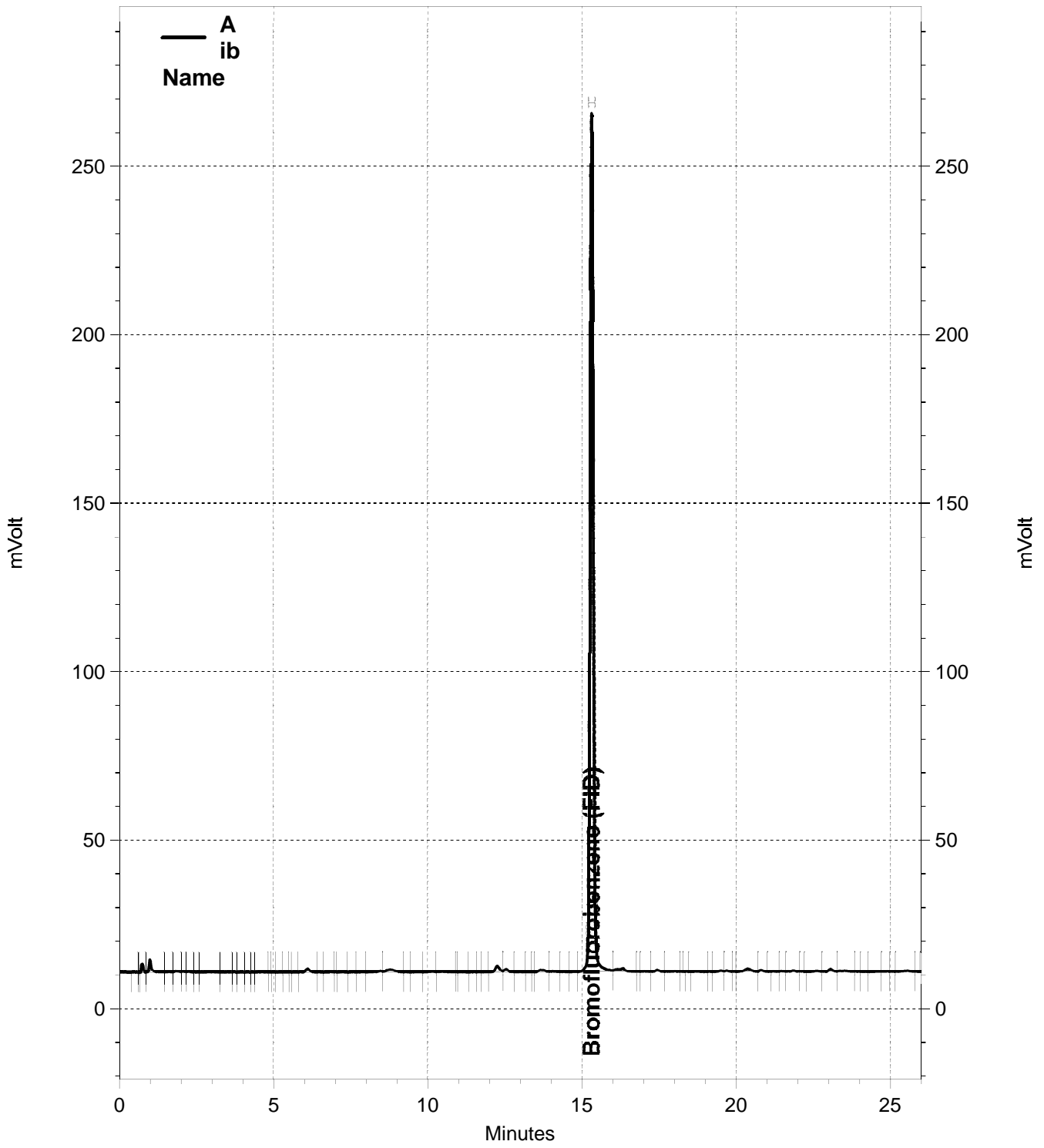
\\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-032, A



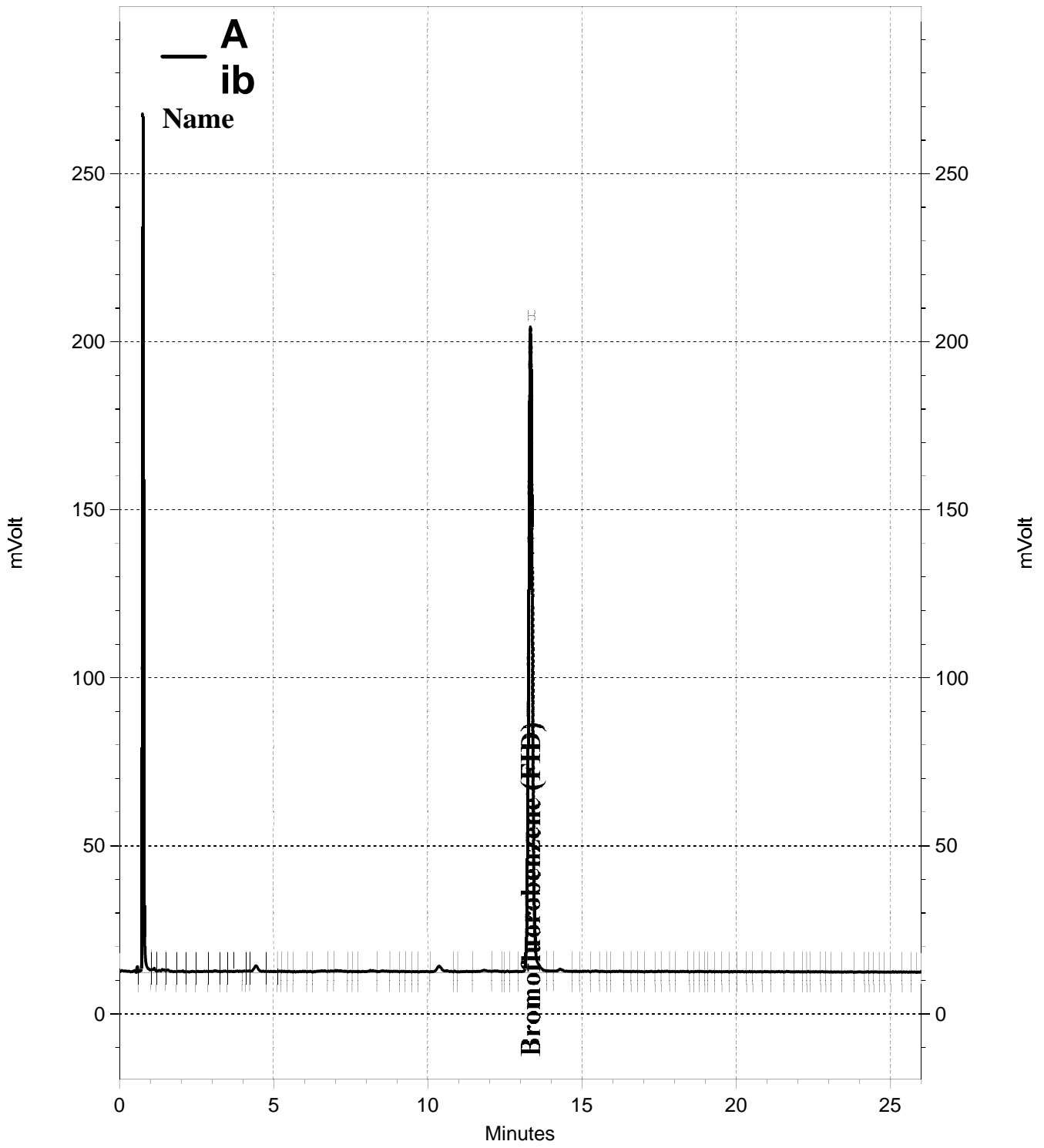
\\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-033, A



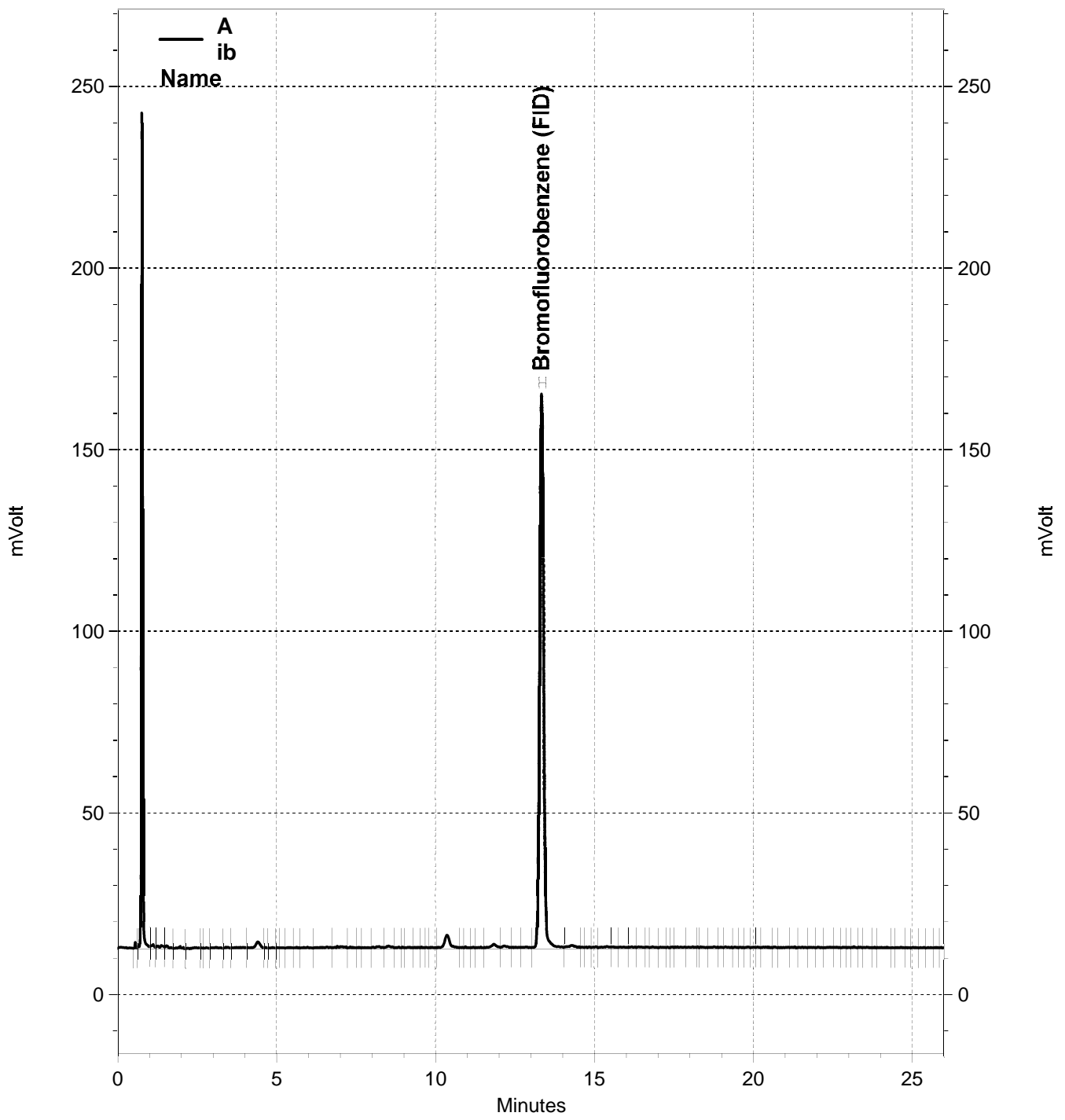
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-034, A



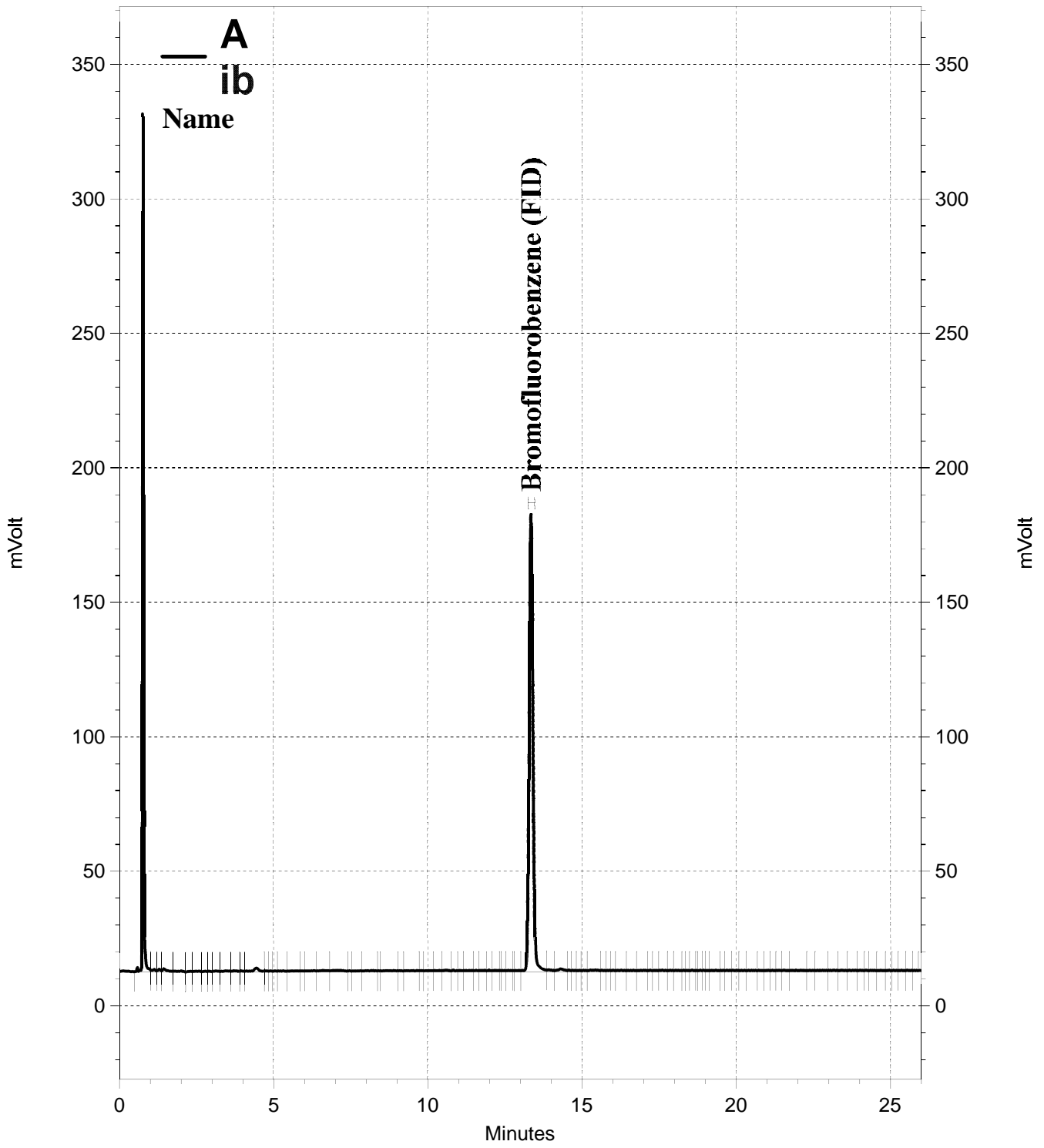
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\157-006, A



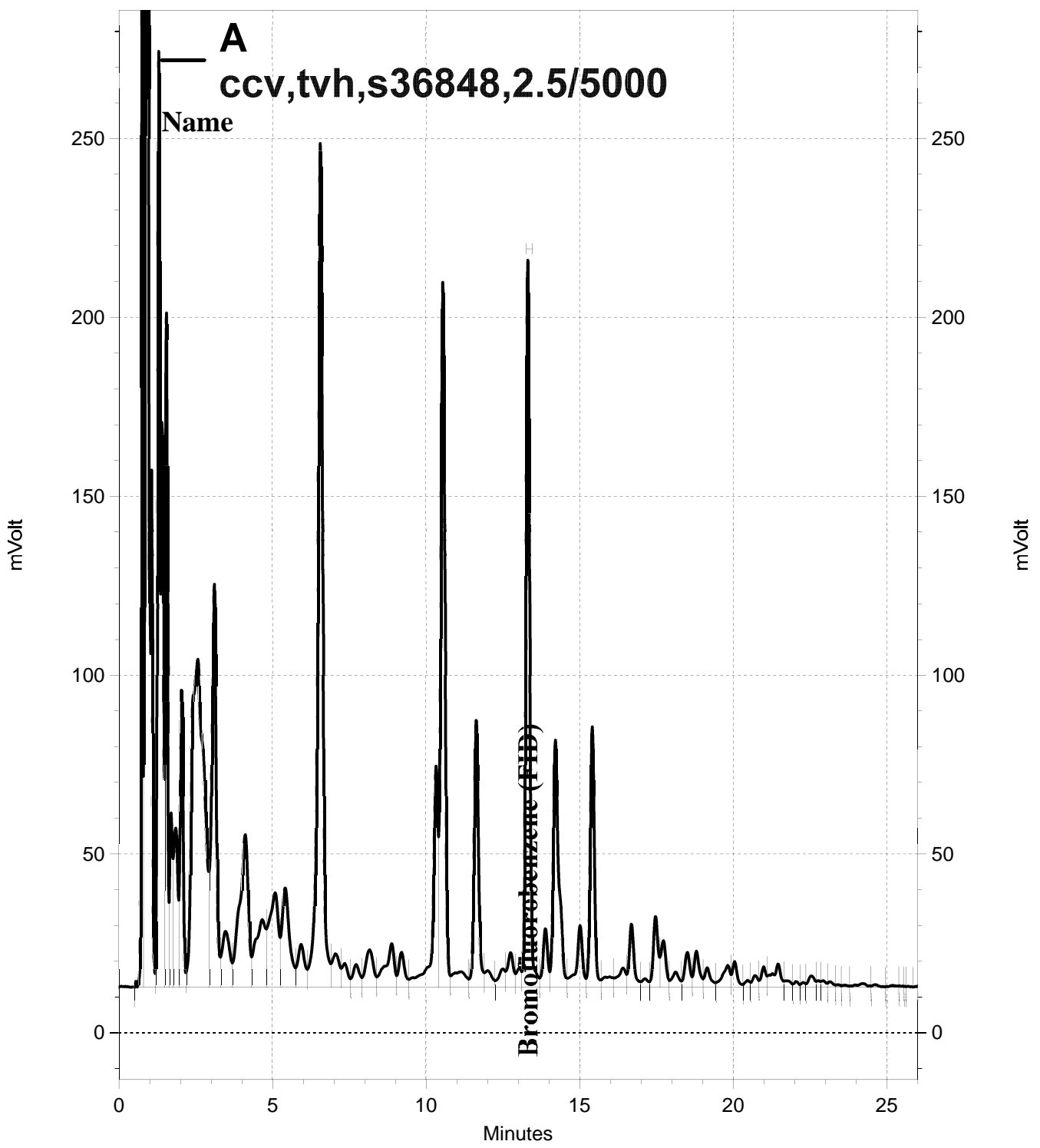
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\158-005, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\159-004, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-004, A



— \\Lims\drive\ezchrom\Projects\GC05\Data\2018\158-002, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 300412 GCVOA Soil: EPA 8015B

Inst : GC05
 Calnum : 318176372002
 Units : ng

Name : TVH_122
 Date : 02-MAY-2018 12:09
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_002	318176372002	TVH_14	02-MAY-2018 12:09	S36893 (1000X), S36233 (5000X)
L2	122_003	318176372003	TVH_15	02-MAY-2018 12:47	S36892 (1000X), S36233 (5000X)
L3	122_004	318176372004	TVH_16	02-MAY-2018 13:25	S36891 (1000X), S36233 (5000X)
L4	122_005	318176372005	TVH_17	02-MAY-2018 14:02	S36890 (2000X), S36233 (5000X)
L5	122_006	318176372006	TVH_18	02-MAY-2018 14:40	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	2961.4	2506.0	2455.4	2423.4	2633.8	AVRG		3.85E-4		2596.0	8	0.995	20	
Bromofluorobenzene (FID)	A	1639.9	1598.1	1644.8	2044.9	2307.4	AVRG		5.41E-4		1847.0	17	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	14	2500.0	-3	10000	-5	25000	-7	50000	1
Bromofluorobenzene (FID)	A	900.00	-11	900.00	-13	900.00	-11	900.00	11	900.00	25

CJN 05/02/18 : Corrected baseline noise or negative peak in TVH_14 (122_002).

Analyst: CJN

Date: 05/02/18

Reviewer: EAH

Date: 05/03/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05
Calnum : 318176372002

Name : TVH_122
Cal Date : 02-MAY-2018

ICV 318176372008 (122_008 02-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8824	ng	-12	15	

Analyst: CJN

Date: 05/02/18

Reviewer: EAH

Date: 05/03/18

ENTHALPY INITIAL CALIBRATION FOR 300412 GCVOA Soil: EPA 8015B

Inst : GC07
 Calnum : 328184879001
 Units : ng

Name : TVH_129
 Date : 08-MAY-2018 21:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	128_017	328184879017	TVH_14	08-MAY-2018 21:46	S36893 (1000X), S36233 (5000X)
L2	128_018	328184879018	TVH_15	08-MAY-2018 22:25	S36892 (1000X), S36233 (5000X)
L3	128_019	328184879019	TVH_16	08-MAY-2018 23:03	S36891 (1000X), S36233 (5000X)
L4	128_020	328184879020	TVH_17	08-MAY-2018 23:42	S36890 (2000X), S36233 (5000X)
L5	128_021	328184879021	TVH_18	09-MAY-2018 00:20	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	2551.5	2151.4	1868.7	2079.4	2113.6	AVRG		4.64E-4		2152.9	12	0.995	20	
Bromofluorobenzene (FID)	A	2209.5	2170.3	2197.1	2287.3	2435.2	AVRG		4.43E-4		2259.9	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	19	2500.0	0	10000	-13	25000	-3	50000	-2
Bromofluorobenzene (FID)	A	900.00	-2	900.00	-4	900.00	-3	900.00	1	900.00	8

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC07
Calnum : 328184879001

Name : TVH_129
Cal Date : 08-MAY-2018

ICV 328184879024 (128_024 09-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8973	ng	-10	15	

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

ENTHALPY SPIKE USER REPORT FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC934969 IDF : 1.0
 Seqnum : 318228070002.1 File : 158_002 Time : 07-JUN-2018 09:48
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2978.3	5000	5736	ng	15	15	u
Bromofluorobenzene (FID)	A	1847.0	1967.6	900.0	958.8	ng	7	15	u

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/13/18

u=use

ENTHALPY SPIKE USER REPORT FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC934957 IDF : 1.0
 Seqnum : 318228070004.2 File : 158_004 Time : 07-JUN-2018 11:03
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2937.5	5000	5658	ng	13	15	u
Bromofluorobenzene (FID)	A	1847.0	2032.2	900.0	990.2	ng	10	15	u

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/13/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : AVGAS IDF : 1.0
 Seqnum : 318228070012 File : 158_012 Time : 07-JUN-2018 16:37
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36676 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Bromofluorobenzene (FID)	A	1847.0	2064.9	900.0	1006	ng	12	15	

Analyst: CJN

Date: 06/08/18

Reviewer: LW

Date: 06/08/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318228070015 File : 158_015 Time : 07-JUN-2018 18:30
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2700.6	10000	10400	ng	4	15	
Bromofluorobenzene (FID)	A	1847.0	2117.0	900.0	1032	ng	15	15	

Analyst: CJN Date: 06/08/18 Reviewer: LW Date: 06/08/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318228070026 File : 158_026 Time : 08-JUN-2018 01:23
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2692.4	15000	15560	ng	4	15	
Bromofluorobenzene (FID)	A	1847.0	2158.1	900.0	1052	ng	17	15	c+

CJN 06/08/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 06/08/18 Reviewer: LW Date: 06/08/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318228070035 File : 158_035 Time : 08-JUN-2018 07:02
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2546.5	10000	9809	ng	-2	15	
Bromofluorobenzene (FID)	A	1847.0	2125.7	900.0	1036	ng	15	15	

Analyst: CJN Date: 06/08/18 Reviewer: LW Date: 06/08/18

ENTHALPY SPIKE USER REPORT FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC935154 IDF : 1.0
 Seqnum : 318229496002.4 File : 159_002 Time : 08-JUN-2018 09:34
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2581.9	5000	4973	ng	-1	15	u
Bromofluorobenzene (FID)	A	1847.0	1640.8	900.0	799.5	ng	-11	15	u

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/13/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318229496012 File : 159_012 Time : 08-JUN-2018 16:47
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2279.6	10000	8781	ng	-12	15	
Bromofluorobenzene (FID)	A	1847.0	1604.3	900.0	781.7	ng	-13	15	

Analyst: JM2 Date: 06/08/18 Reviewer: LW Date: 06/08/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318229496025 File : 159_025 Time : 09-JUN-2018 01:35
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2327.8	15000	13450	ng	-10	15	
Bromofluorobenzene (FID)	A	1847.0	2126.2	900.0	1036	ng	15	15	

Analyst: CJN Date: 06/11/18 Reviewer: TKM Date: 06/11/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
Seqnum : 318233848002 File : 162_002 Time : 11-JUN-2018 10:06
Cal : 318176372002 Caldate : 02-MAY-2018
Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2645.5	5000	5095	ng	2	15	
Bromofluorobenzene (FID)	A	1847.0	1889.7	900.0	920.8	ng	2	15	

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY SPIKE USER REPORT FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC935423 IDF : 1.0
 Seqnum : 318233848003.2 File : 162_003 Time : 11-JUN-2018 10:44
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2859.4	5000	5507	ng	10	15	u
Bromofluorobenzene (FID)	A	1847.0	1936.2	900.0	943.5	ng	5	15	u

CJN: 06/12/18 JM2: 06/12/18 EAH: 06/13/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318233848008 File : 162_008 Time : 11-JUN-2018 17:06
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2741.4	10000	10560	ng	6	15	
Bromofluorobenzene (FID)	A	1847.0	2174.0	900.0	1059	ng	18	15	c+

CJN 06/12/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318233848020 File : 162_020 Time : 12-JUN-2018 00:37
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2594.1	15000	14990	ng	0	15	
Bromofluorobenzene (FID)	A	1847.0	2229.3	900.0	1086	ng	21	15	c+

CJN 06/12/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318233848031 File : 162_031 Time : 12-JUN-2018 07:31
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2584.2	10000	9955	ng	0	15	
Bromofluorobenzene (FID)	A	1847.0	2110.8	900.0	1029	ng	14	15	

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY SPIKE USER REPORT FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC934819 IDF : 1.0
 Seqnum : 328226642002.1 File : 157_002 Time : 06-JUN-2018 10:00
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36103 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2427.8	5000	5638	ng	13	15	u
Bromofluorobenzene (FID)	A	2259.9	2095.4	900.0	834.5	ng	-7	15	u

Analyst: JM2 Date: 06/07/18 Reviewer: EAH Date: 06/13/18

u=use

ENTHALPY SPIKE USER REPORT FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC934792 IDF : 1.0
 Seqnum : 328226642004.10 File : 157_004 Time : 06-JUN-2018 11:17
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36103 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2381.9	5000	5532	ng	11	15	u
Bromofluorobenzene (FID)	A	2259.9	2135.6	900.0	850.5	ng	-5	15	u

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/13/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328226642012 File : 157_012 Time : 06-JUN-2018 17:08
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2127.1	10000	9880	ng	-1	15	
Bromofluorobenzene (FID)	A	2259.9	2180.3	900.0	868.3	ng	-4	15	

Analyst: CJN Date: 06/07/18 Reviewer: EAH Date: 06/07/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328226642021 File : 157_021 Time : 06-JUN-2018 23:19
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2051.0	15000	14290	ng	-5	15	
Bromofluorobenzene (FID)	A	2259.9	2129.6	900.0	848.1	ng	-6	15	

Analyst: CJN Date: 06/07/18 Reviewer: EAH Date: 06/07/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328226642034 File : 157_034 Time : 07-JUN-2018 07:36
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	1993.4	10000	9259	ng	-7	15	
Bromofluorobenzene (FID)	A	2259.9	2063.4	900.0	821.8	ng	-9	15	

Analyst: CJN Date: 06/07/18 Reviewer: EAH Date: 06/07/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328226642039 File : 157_039 Time : 07-JUN-2018 10:47
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	1993.4	15000	13890	ng	-7	15	
Bromofluorobenzene (FID)	A	2259.9	2099.5	900.0	836.1	ng	-7	15	

Analyst: JM2 Date: 06/07/18 Reviewer: EAH Date: 06/07/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318176372

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 05/02/18 11:32
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	122_001	ICAL	CALIB			05/02/18 11:32	1.0	1
002	122_002	ICAL	TVH_14			05/02/18 12:09	1.0	2 1
003	122_003	ICAL	TVH_15			05/02/18 12:47	1.0	3 1
004	122_004	ICAL	TVH_16			05/02/18 13:25	1.0	4 1
005	122_005	ICAL	TVH_17			05/02/18 14:02	1.0	5 1
006	122_006	ICAL	TVH_18			05/02/18 14:40	1.0	5 1
007	122_007	IB				05/02/18 15:17	1.0	1
008	122_008	ICV	TVH			05/02/18 15:55	1.0	6 1
009	122_009	X	ICV			05/02/18 16:33	1.0	6 1
010	122_010	CMARKER	CMARKER			05/02/18 17:10	1.0	7 1

Reviewed by: _____ Date: _____

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S35319

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318228070

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 06/07/18 09:10
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std	Used
001	158_001	X	CMARKER			06/07/18 09:10	1.0	1	2
002	158_002	CCV/BS	QC934969	Soil	260273	06/07/18 09:48	1.0	3	2
003	158_003	CCV	AVGAS			06/07/18 10:26	1.0	4	2
004	158_004	CCV/LCS	QC934957	Water	260268	06/07/18 11:03	1.0	3	2
005	158_005	BLANK	QC934971	Soil	260273	06/07/18 11:41	1.0		2
006	158_006	BLANK	QC934960	Water	260268	06/07/18 12:31	1.0		2
007	158_007	MSS	300363-001	Water	260268	06/07/18 13:29	1.0		2
008	158_008	SAMPLE	300363-002	Water	260268	06/07/18 14:06	1.0		2
009	158_009	SAMPLE	300363-003	Water	260268	06/07/18 14:44	1.0		2
010	158_010	MS	QC934958	Water	260268	06/07/18 15:22	1.0	3	2
011	158_011	MSD	QC934959	Water	260268	06/07/18 15:59	1.0	3	2
012	158_012	CCV	AVGAS			06/07/18 16:37	1.0	4	2
013	158_013	BSD	QC934970	Soil	260273	06/07/18 17:15	1.0	3	2
014	158_014	X	CMARKER			06/07/18 17:52	1.0	1	2
015	158_015	CCV	TVH			06/07/18 18:30	1.0	3	2
016	158_016	SAMPLE	300412-008	Soil	260273	06/07/18 19:07	1.0		2
017	158_017	SAMPLE	300412-009	Soil	260273	06/07/18 19:45	1.0		2
018	158_018	SAMPLE	300412-010	Soil	260273	06/07/18 20:23	1.0		2
019	158_019	SAMPLE	300412-011	Soil	260273	06/07/18 21:00	1.0		2
020	158_020	SAMPLE	300412-012	Soil	260273	06/07/18 21:38	1.0		2
021	158_021	SAMPLE	300412-013	Soil	260273	06/07/18 22:16	1.0		2
022	158_022	SAMPLE	300412-014	Soil	260273	06/07/18 22:53	1.0		2
023	158_023	SAMPLE	300412-015	Soil	260273	06/07/18 23:31	1.0		2
024	158_024	SAMPLE	300412-016	Soil	260273	06/08/18 00:08	1.0		2
025	158_025	SAMPLE	300412-017	Soil	260273	06/08/18 00:46	1.0		2
026	158_026	CCV	TVH			06/08/18 01:23	1.0	3	2
027	158_027	X	CMARKER			06/08/18 02:01	1.0	1	2
028	158_028	SAMPLE	300412-018	Soil	260273	06/08/18 02:39	1.0		2
029	158_029	SAMPLE	300412-019	Soil	260273	06/08/18 03:16	1.0		2
030	158_030	SAMPLE	300412-020	Soil	260273	06/08/18 03:54	1.0		2
031	158_031	SAMPLE	300412-021	Soil	260273	06/08/18 04:31	1.0		2
032	158_032	SAMPLE	300412-022	Soil	260273	06/08/18 05:09	1.0		2
033	158_033	SAMPLE	300412-023	Soil	260273	06/08/18 05:46	1.0		2
034	158_034	SAMPLE	300412-025	Soil	260273	06/08/18 06:24	1.0		2
035	158_035	CCV	TVH			06/08/18 07:02	1.0	3	2
036	158_036	X	CMARKER			06/08/18 07:39	1.0	1	2

CJN 06/08/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 36.

CJN 06/08/18 : Matrix spikes were not performed for this analysis in batch 260273 due to insufficient sample amount.

Reviewed by: CJN Date: 06/08/18

Standards used: 1=S36859 2=S37192 3=S36848 4=S36676

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318229496

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 06/08/18 08:56
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	159_001	X	CMARKER				06/08/18 08:56	1.0	1 2
002	159_002	CCV/BS	QC935154		Soil	260314	06/08/18 09:34	1.0	3 2
003	159_003	BSD	QC935155		Soil	260314	06/08/18 10:12	1.0	3 2
004	159_004	BLANK	QC935156		Soil	260314	06/08/18 10:49	1.0	2
005	159_005	X	300480-002	M	Soil	260314	06/08/18 11:55	25.0	2 5:GAS:7-12=77000
006	159_006	SAMPLE	300480-008	M	Soil	260314	06/08/18 12:33	25.0	2
007	159_007	X	300480-002	M	Soil	260314	06/08/18 13:39	200.0	2
008	159_008	SAMPLE	300480-008	M	Soil	260314	06/08/18 14:16	25.0	2
009	159_009	SAMPLE	300480-001	M	Soil	260314	06/08/18 14:54	100.0	2
010	159_010	SAMPLE	300480-010	M	Soil	260314	06/08/18 15:32	66.67	2
011	159_011	SAMPLE	300480-005	M	Soil	260314	06/08/18 16:09	166.7	2 2:AVGAS:7-12=37000
012	159_012	CCV	TVH				06/08/18 16:47	1.0	3 2
014	159_014	X	CMARKER				06/08/18 18:34	1.0	1 2
015	159_015	SAMPLE	300523-001		Soil	260314	06/08/18 19:19	1.0	2 sh
016	159_016	SAMPLE	300523-002		Soil	260314	06/08/18 19:57	1.0	2 sh
017	159_017	SAMPLE	300523-003		Soil	260314	06/08/18 20:34	1.0	2 sh
018	159_018	SAMPLE	300412-013		Soil	260314	06/08/18 21:12	1.0	2
019	159_019	SAMPLE	300412-021		Soil	260314	06/08/18 21:49	1.0	2
020	159_020	SAMPLE	300499-001		Soil	260314	06/08/18 22:27	1.0	2
021	159_021	SAMPLE	300499-002		Soil	260314	06/08/18 23:05	1.0	2
022	159_022	SAMPLE	300499-003		Soil	260314	06/08/18 23:42	1.0	2
023	159_023	SAMPLE	300499-004		Soil	260314	06/09/18 00:20	1.0	2
024	159_024	SAMPLE	300499-005		Soil	260314	06/09/18 00:57	1.0	2 1:AVGAS:7-12=15000
025	159_025	CCV	TVH				06/09/18 01:35	1.0	3 2
026	159_026	X	CMARKER				06/09/18 02:13	1.0	1 2
027	159_027	SAMPLE	300449-001		Soil	260314	06/09/18 02:50	1.0	2
028	159_028	SAMPLE	300449-002		Soil	260314	06/09/18 03:28	1.0	2
029	159_029	SAMPLE	300449-003		Soil	260314	06/09/18 04:05	1.0	2
030	159_030	SAMPLE	300449-004		Soil	260314	06/09/18 04:43	1.0	2
031	159_031	SAMPLE	300449-005		Soil	260314	06/09/18 05:21	1.0	2
032	159_032	SAMPLE	300449-006		Soil	260314	06/09/18 05:58	1.0	2
033	159_033	CCV	TVH				06/09/18 06:36	1.0	3 2
034	159_034	X	CMARKER				06/09/18 07:13	1.0	1 2

JM2 06/08/18 : Voided runs 5,7, removed samples from the batch.

JM2 06/08/18 : Partial sequence for 300480.

JM2 06/08/18 : All pdfs and idfs accounted for.

JM2 06/08/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 12.

LW 06/08/18 : Reviewed through file 12

CJN 06/11/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 13 through 34.

Reviewed by: CJN Date: 06/11/18

Standards used: 1=S36859 2=S37192 3=S36848

Flags used: sh=out of sample hold

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318233848

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 06/11/18 09:28
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	162_001	X	CMARKER			06/11/18 09:28	1.0	1 2	
002	162_002	CCV	TVH			06/11/18 10:06	1.0	3 2	
003	162_003	CCV/LCS	QC935423	Soil	260383	06/11/18 10:44	1.0	3 2	
004	162_004	BLANK	QC935426	Soil	260383	06/11/18 11:21	1.0	2	
005	162_005	MSS	300497-034	Soil	260383	06/11/18 15:13	1.0	2	
006	162_006	MS	QC935424	Soil	260383	06/11/18 15:51	1.0	3 2	
007	162_007	MSD	QC935425	Soil	260383	06/11/18 16:28	1.0	3 2	
008	162_008	CCV	TVH			06/11/18 17:06	1.0	3 2	
009	162_009	X	CMARKER			06/11/18 17:43	1.0	1 2	
010	162_010	SAMPLE	300453-003	Soil	260383	06/11/18 18:21	1.0	2	
011	162_011	SAMPLE	300453-004	Soil	260383	06/11/18 18:59	1.0	2	
012	162_012	SAMPLE	300453-006	Soil	260383	06/11/18 19:37	1.0	2	
013	162_013	SAMPLE	300453-008	Soil	260383	06/11/18 20:14	1.0	2	
014	162_014	SAMPLE	300453-009	Soil	260383	06/11/18 20:52	1.0	2	
015	162_015	SAMPLE	300453-010	Soil	260383	06/11/18 21:29	1.0	2	
016	162_016	SAMPLE	300453-011	Soil	260383	06/11/18 22:07	1.0	2	
017	162_017	SAMPLE	300453-012	Soil	260383	06/11/18 22:45	1.0	2	
018	162_018	SAMPLE	300453-015	Soil	260383	06/11/18 23:22	1.0	2	
019	162_019	SAMPLE	300453-016	Soil	260383	06/12/18 00:00	1.0	2	
020	162_020	CCV	TVH			06/12/18 00:37	1.0	3 2	
021	162_021	X	CMARKER			06/12/18 01:15	1.0	1 2	
022	162_022	SAMPLE	300453-017	Soil	260383	06/12/18 01:53	1.0	2	
023	162_023	SAMPLE	300453-018	Soil	260383	06/12/18 02:30	1.0	2	
024	162_024	SAMPLE	300453-019	Soil	260383	06/12/18 03:08	1.0	2	1:AVGAS:7-12=26000
025	162_025	SAMPLE	300453-020	Soil	260383	06/12/18 03:45	1.0	2	
026	162_026	SAMPLE	300453-021	Soil	260383	06/12/18 04:23	1.0	2	
027	162_027	SAMPLE	300453-022	Soil	260383	06/12/18 05:01	1.0	2	
028	162_028	SAMPLE	300453-023	Soil	260383	06/12/18 05:38	1.0	2	
029	162_029	SAMPLE	300453-024	Soil	260383	06/12/18 06:16	1.0	2	
030	162_030	SAMPLE	300412-021	Soil	260383	06/12/18 06:53	1.0	2	
031	162_031	CCV	TVH			06/12/18 07:31	1.0	3 2	
032	162_032	X	CMARKER			06/12/18 08:08	1.0	1 2	

CJN 06/12/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

Reviewed by: CJN Date: 06/12/18

Standards used: 1=S36859 2=S37192 3=S36848

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328184879

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/08/18 09:19
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	128_001	X	CMARKER			05/08/18 09:19	1.0	1 2	
002	128_002	CCV	TVH			05/08/18 09:58	1.0	3 2	
003	128_003	CCV/LCS	QC931207	Water	259308	05/08/18 10:36	1.0	4 2	
004	128_004	CCV	TVH			05/08/18 11:15	1.0	3 2	
005	128_005	CCV	BTXE			05/08/18 11:53	1.0	4 2	
006	128_006	BLANK	QC931206	Water	259308	05/08/18 12:31	1.0	2	
007	128_007	MSS	299300-001	Water	259308	05/08/18 15:18	1.0	2	headspace > 1 mL
008	128_008	CCV	BTXE			05/08/18 15:57	1.0	4 2	
011	128_011	IB				05/08/18 17:57	1.0	2	
012	128_012	IB				05/08/18 18:35	1.0	2	
013	128_013	IB				05/08/18 19:13	1.0	2	
014	128_014	IB				05/08/18 19:51	1.0	2	
015	128_015	IB				05/08/18 20:30	1.0	2	
016	128_016	IB	CALIB			05/08/18 21:08	1.0	2	
017	128_017	ICAL	TVH_14			05/08/18 21:46	1.0	5 2	
018	128_018	ICAL	TVH_15			05/08/18 22:25	1.0	6 2	
019	128_019	ICAL	TVH_16			05/08/18 23:03	1.0	7 2	
020	128_020	ICAL	TVH_17			05/08/18 23:42	1.0	8 2	
021	128_021	ICAL	TVH_18			05/09/18 00:20	1.0	8 2	
022	128_022	IB				05/09/18 00:58	1.0	2	
023	128_023	X	ICV			05/09/18 01:37	1.0	9 2	
024	128_024	ICV	TVH			05/09/18 02:15	1.0	9 2	
025	128_025	CMARKER				05/09/18 02:54	1.0	1 2	

Reviewed by: _____ Date: _____

Standards used: 1=S35319 2=S36233 3=S36103 4=S36185 5=S36893 6=S36892 7=S36891 8=S36890 9=S36894

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328226642

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 06/06/18 09:22
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std's Used	
001	157_001	X	CMARKER			06/06/18 09:22	1.0	1 2	
002	157_002	CCV/LCS	QC934819	Soil	260234	06/06/18 10:00	1.0	3 2	
003	157_003	CCV/BS	QC934793	Water	260228	06/06/18 10:38	1.0	4 2	
004	157_004	CCV/LCS	QC934792	Water	260228	06/06/18 11:17	1.0	3 2	
005	157_005	BSD	QC934794	Water	260228	06/06/18 11:55	1.0	4 2	
006	157_006	BLANK	QC934820	Soil	260234	06/06/18 12:33	1.0	2	
007	157_007	BLANK	QC934795	Water	260228	06/06/18 13:45	1.0	2	
008	157_008	SAMPLE	300379-023	Water	260228	06/06/18 14:34	1.0	2	headspace > 1 mL
009	157_009	SAMPLE	300370-001	Water	260228	06/06/18 15:13	1.0	2	
010	157_010	SAMPLE	300379-022	Water	260228	06/06/18 15:51	5.0	2	
011	157_011	SAMPLE	300394-022	Water	260228	06/06/18 16:30	1.0	2	
012	157_012	CCV	TVH			06/06/18 17:08	1.0	5 2	
013	157_013	X	CMARKER			06/06/18 17:46	1.0	1 2	
014	157_014	CCV	BTXE			06/06/18 18:24	1.0	4 2	
015	157_015	SAMPLE	300412-024	Water	260228	06/06/18 19:30	1.0	2	headspace <= 1 mL
016	157_016	MSS	300441-001	Water	260228	06/06/18 20:08	1.0	2	
017	157_017	SAMPLE	300444-001	Water	260228	06/06/18 20:46	5.0	2	diluted (odor)
018	157_018	SAMPLE	300408-001	Water	260228	06/06/18 21:25	1.0	2	headspace > 1 mL
019	157_019	MS	QC934796	Water	260228	06/06/18 22:03	1.0	5 2	
020	157_020	MSD	QC934797	Water	260228	06/06/18 22:41	1.0	5 2	
021	157_021	CCV	TVH			06/06/18 23:19	1.0	5 2	
022	157_022	X	CMARKER			06/06/18 23:58	1.0	1 2	
023	157_023	CCV	BTXE			06/07/18 00:36	1.0	4 2	
024	157_024	SAMPLE	300412-001	Soil	260234	06/07/18 01:14	1.0	2	
025	157_025	SAMPLE	300412-002	Soil	260234	06/07/18 01:52	1.0	2	
026	157_026	SAMPLE	300412-003	Soil	260234	06/07/18 02:31	1.0	2	
027	157_027	SAMPLE	300412-004	Soil	260234	06/07/18 03:09	1.0	2	
028	157_028	SAMPLE	300412-005	Soil	260234	06/07/18 03:47	1.0	2	
029	157_029	SAMPLE	300412-006	Soil	260234	06/07/18 04:25	1.0	2	
030	157_030	SAMPLE	300412-007	Soil	260234	06/07/18 05:03	1.0	2	
031	157_031	MSS	300413-005	Soil	260234	06/07/18 05:42	1.0	2	
032	157_032	SAMPLE	300413-010	Soil	260234	06/07/18 06:20	1.0	2	
033	157_033	SAMPLE	300413-014	Soil	260234	06/07/18 06:58	1.0	2	
034	157_034	CCV	TVH			06/07/18 07:36	1.0	5 2	
035	157_035	X	CMARKER			06/07/18 08:14	1.0	1 2	
036	157_036	SAMPLE	300446-001	Soil	260234	06/07/18 08:52	1.0	2	
037	157_037	MS	QC934821	Soil	260234	06/07/18 09:31	1.0	5 2	
038	157_038	MSD	QC934822	Soil	260234	06/07/18 10:09	1.0	5 2	
039	157_039	CCV	TVH			06/07/18 10:47	1.0	5 2	
040	157_040	X	CMARKER			06/07/18 11:25	1.0	1 2	

CJN 06/07/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

Reviewed by: CJN Date: 06/07/18

Standards used: 1=S36859 2=S37192 3=S36103 4=S36185 5=S36848

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #: 06-15-2017

pH paper (<2.55U), lot: 230315

pH paper (0-14SU), lot: 10B24H1271

Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSVQA?	# unused vials remaining	RR #	DF	Comments	hold	due	Initial/Date
300230-1	B	Y										JM2 5/31/18
↓ -2	J	I										
↓ -3	F	I										
↓ -4	E	I										
300239-13	B	Y										
↓ -13 MS	J	I										
↓ -13 MSD	J	I										
300270-1	A	Y										JM2 6/1/18
↓ -1 MS	J	I										
↓ -1 MSD	J	I										
300370-1	A	Y										JM2 6/5/18
↓ -1 MS	J	I										
↓ -1 MSD	J	I										
300124-1	A	N	7						↑ tested w/ hydroxylamine lot # BPH1587C S10			
Preobk	-	N	6						↓			
300379-22	A	Y						1000/5000	diluted due to matrix			
↓ -23	J	I		Y					HL			
300394-20	B	N	3					JM2 100/5000 6/5/18 1000/5000	Solid layer of sludge covering liquid portion			
↓ -21	A	Y										
↓ -22	J	N	7					1000/5000	diluted due to matrix			
↓ -23	E	Y										
↓ -24	B	I										
↓ -25	E	I										
300394-22	B	Y										JM2 6/8/18
300370-1	C	I										JM2 6/1/18
300379-22	J	I						1000/5000	diluted due to matrix			
↓ -23	A	I		Y					HM			

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

06-15-2017
 5mL disposable pipettes, lot #: ~~06-245~~ 772 pH paper (<2.5SU), lot: 230715
~~6/6/18~~ 6/6/18 pH paper (0-14SU), lot: 1080 H271

	Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSV/OA?	# unused vials remaining	RR #	DF	Comments	hold	due	Rush	Initial/Date
1	300408-1	A	Y		Y					H/M				JMC 6/6/18
2	300441-1	D												
3	300444-1	B			Y				1000/5000	H/M, odor				
4	300412-24	A			Y					HL				
5	300441-1 MS D	D												
6	I -1 MSD I	I												
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														

TITLE	PROJECT	DATE
Continued from page		
Sample	Weight (g)	Comments: Initials
300379-13	A 37.59 - 30.508 - 0.2 = 6.88	No JMZ 6/5/18 B-6
↓ -14	↓ 37.67 - 30.600 - 0.2 = 6.87	↓ ↓ ↓
5 ↓ -15	↓ 37.63 - 30.510 - 0.2 = 6.92	
300379-16	A 38.60 - 30.561 - 0.2 = 7.84	No JMZ 6/5/18 B-6
↓ -17	↓ 38.32 - 30.627 - 0.2 = 7.49	↓ ↓ ↓
↓ -18	↓ 38.38 - 30.678 - 0.2 = 7.50	
↓ -19	↓ 38.26 - 30.588 - 0.2 = 7.47	
10 ↓ -20	↓ 35.97 - 30.619 - 0.2 = 5.15	
↓ -21	↓ 38.12 - 30.538 - 0.2 = 7.38	
300394-1	B 0.91	No CJN 6/6/18 B-6
↓ -2	↓ 0.93	
↓ -3	↓ 1.07	
15 ↓ -4	↓ 0.97	
↓ -5	↓ 1.04	
↓ -6	↓ 0.93	
↓ -7	↓ 1.06	
↓ -8	↓ 1.00	
20 ↓ -9	↓ 0.96	
↓ -10	↓ 1.01	
↓ -10 MS	↓ 0.98	
↓ -10 MSD	↓ 0.99	
↓ -11	↓ 1.00	
25 ↓ -12	↓ 0.93	
↓ -13	↓ 0.99	
↓ -14	↓ 1.03	
↓ -15	↓ 1.02	
↓ -16	↓ 0.92	
30 ↓ -17	↓ 1.00	
↓ -18	↓ 1.00	
↓ -19	↓ 0.90	
300442-1	A 0.95	No JMZ 6/6/18 B-6
300413-5	A 0.92	comp of 413-(1-4)
↓ -10	↓ 0.94	↓ -(6-9)
↓ -14	↓ 1.04	↓ -(11-13)
300412-1	A 38.23 - 30.522 - 0.2 = 7.51	
↓ -2	↓ 36.35 - 30.728 - 0.2 = 5.42	
↓ -3	↓ 37.65 - 30.672 - 0.2 = 6.78	
40 ↓ -4	↓ 38.13 - 30.843 - 0.2 = 7.09	
↓ -5	↓ 38.40 - 30.875 - 0.2 = 7.33	
↓ -6	↓ 38.63 - 30.490 - 0.2 = 7.94	
↓ -7	↓ 37.40 - 30.842 - 0.2 = 6.36	
300413-5 MS	1.04	
45 ↓ -5 MSD	↓ 0.99	
SIGNATURE		DATE
DISCLOSED TO AND UNDERSTOOD BY	DATE	PROPRIETARY INFORMATION

Continued to page

Sample Run Log

(w)

Date: 6/7/18		Instrument: GC 05	Batch#(s): 260268, 260273 (s)			Analyst(s): CJN, JMR	
Julian Date	File #	Sample Name	Amount	Units	Comments	QC Type	QC#
158	01	✓ CM					
	02	✓ G2					
	03	✓ AVG					260268 (w)
	04	✓ G2				LCS	QC 934957
	05	✓ MB				BS	QC
	06	✓ MB				BSD	QC
	07	✓ 363-1	5	ML	B 1.0	MS	QC 934958
	08	✓ | -2	|	|	|	MSD	QC 934959
	09	✓ | -3	|	|	C 1.0	BLANK	QC 934960
	10	✓ | -1 MS	|	|	B 1.0		
	11	✓ | -1 MSD	|	|	|		260273 (s)
	12	✓ AVG				LCS	QC
	13	✓ G5				BS	QC 934969
	14	✓ CM				BSD	QC 934970
	15	✓ G5				MS	QC
	16	✓ 412-8	7.31	g	A	MSD	QC
	17	✓ | -9	6.71	|	|	BLANK	QC 934971
	18	✓ | -10	6.82	|	|		
	19	✓ | -11	7.63	|	|		
	20	✓ | -12	6.89	|	|		
	21	✓ | -13	5.87	|	|		
	22	✓ | -14	6.28	|	|		
	23	✓ | -15	7.62	|	|		
	24	✓ | -16	7.22	|	B		
	25	✓ | -17	7.37	|	A		
	26	✓ G7					
	27	✓ CM					
	28	✓ 412-18	7.66	g	A		
	29	✓ | -19	7.17	|	|		
	30	✓ | -20	7.31	|	|		
	31	✓ | -21	6.34	|	|		
	32	✓ | -22	6.67	|	|		
	33	✓ | -23	7.00	|	|		
	34	✓ | -25	6.16	|	|		
	35	✓ G5					
	36	✓ CM					
	37						
	38						
	39						
	40						
	41						
	42						
	43						
	44						
	45						
	46						
	47						
	48						
	49						
	50						

Standards & spikes prepared following C&T SOP # VOC 7.1, revision # 23

Includes Solid Samples? yes no

Solid QC Matrix, Reagent ID: Glass bead/BEAD-2000

~~CJN 6/18/18~~

Sample Run Log

(w)

Rev.3, Effective 7/01/17, F:\home\TVH\TVH run log template_rv3.xls

Date: 6/7/18		Instrument: GC 05	Batch#(s): 260268, 260273 (s)			Analyst(s): CJN, JMR	
Julian Date	File #	Sample Name	Amount	Units	Comments	QC Type	QC#
158	01	✓ CM					
	02	✓ G2					
	03	✓ AVG					260268 (w)
	04	✓ G2				LCS	QC 934957
	05	✓ MB				BS	QC
	06	✓ MB				BSD	QC
	07	✓ 363-1	5	ML	B 1.0	MS	QC 934958
	08	✓ -2	|	|	|	MSD	QC 934959
	09	✓ -3	|	|	C 1.0	BLANK	QC 934960
	10	✓ -1 MS	|	|	B 1.0		
	11	✓ -1 MSD	|	|	|		260273 (s)
	12	✓ AVG				LCS	QC
	13	✓ G5				BS	QC 934969
	14	✓ CM				BSD	QC 934970
	15	✓ G5				MS	QC
	16	✓ 412-8	7.31	g	A	MSD	QC
	17	✓ -9	6.71	|	|	BLANK	QC 934971
	18	✓ -10	6.82	|	|		
	19	✓ -11	7.63	|	|		
	20	✓ -12	6.89	|	|		
	21	✓ -13	5.87	|	|		
	22	✓ -14	6.28	|	|		
	23	✓ -15	7.62	|	|		
	24	✓ -16	7.22	|	B		
	25	✓ -17	7.37	|	A		
	26	✓ G7					
	27	✓ CM					
	28	✓ 412-18	7.66	g	A		
	29	✓ -19	7.17	|	|		
	30	✓ -20	7.31	|	|		
	31	✓ -21	6.34	|	|		
	32	✓ -22	6.67	|	|		
	33	✓ -23	7.00	|	|		
	34	✓ -25	6.16	|	|		
	35	✓ G5					
	36	✓ CM					
	37						
	38						
	39						
	40						
	41						
	42						
	43						
	44						
	45						
	46						
	47						
	48						
	49						
	50						

Standards & spikes prepared following C&T SOP # VOC 7.1, revision # 23

Includes Solid Samples? yes no

Solid QC Matrix, Reagent ID: Glass bead/BEAD-2000

~~CJN 6/18/18~~

TITLE PROJECT DATE

Continued from page	Sample	TA	Weight (g)	Wt/Std	Comments: Initials	Anal ID
	300379-13	A	37.59 - 30,508 - 0.2 = 6.88	No	JMZ 6/5/18	B-6
5	↓ -14	↓	37.67 - 30,600 - 0.2 = 6.87	↓	↓	↓
	↓ -15	↓	37.63 - 30,510 - 0.2 = 6.92			
	300379-16	A	38.60 - 30,561 - 0.2 = 7.84	No	JMZ 6/5/18	B-6
	↓ -17	↓	38.32 - 30,627 - 0.2 = 7.49	↓	↓	↓
	↓ -18	↓	38.38 - 30,678 - 0.2 = 7.50	↓	↓	↓
10	↓ -19	↓	38.26 - 30,588 - 0.2 = 7.47	↓	↓	↓
	↓ -20	↓	35.97 - 30,619 - 0.2 = 5.15	↓	↓	↓
	↓ -21	↓	38.12 - 30,538 - 0.2 = 7.38	↓	↓	↓
	300394-1	B	0.91	No	CJN 6/6/18	B-6
	↓ -2	↓	0.93	↓	↓	↓
15	↓ -3	↓	1.07	↓	↓	↓
	↓ -4	↓	0.97	↓	↓	↓
	↓ -5	↓	1.04	↓	↓	↓
	↓ -6	↓	0.93	↓	↓	↓
	↓ -7	↓	1.06	↓	↓	↓
	↓ -8	↓	1.00	↓	↓	↓
20	↓ -9	↓	0.96	↓	↓	↓
	↓ -10	↓	1.01	↓	↓	↓
	↓ -10 MS	↓	0.98	↓	↓	↓
	↓ -10 MSD	↓	0.99	↓	↓	↓
25	↓ -11	↓	1.00	↓	↓	↓
	↓ -12	↓	0.93	↓	↓	↓
	↓ -13	↓	0.99	↓	↓	↓
	↓ -14	↓	1.03	↓	↓	↓
	↓ -15	↓	1.02	↓	↓	↓
30	↓ -16	↓	0.92	↓	↓	↓
	↓ -17	↓	1.00	↓	↓	↓
	↓ -18	↓	1.00	↓	↓	↓
	↓ -19	↓	0.90	↓	↓	↓
	300442-1	A	0.95	No	JMZ 6/6/18	B-6
35	300413-5	A	0.92	↓	comp of 413-(1-9)	↓
	↓ -10	↓	0.94	↓	↓ - (6-9)	↓
	↓ -14	↓	1.04	↓	↓ - (11-13)	↓
	300412-1	A	38.23 - 30,522 - 0.2 = 7.51	↓	↓	↓
	↓ -2	↓	36.35 - 30,728 - 0.2 = 5.42	↓	↓	↓
40	↓ -3	↓	37.65 - 30,642 - 0.2 = 6.78	↓	↓	↓
	↓ -4	↓	38.13 - 30,843 - 0.2 = 7.09	↓	↓	↓
	↓ -5	↓	38.40 - 30,875 - 0.2 = 7.33	↓	↓	↓
	↓ -6	↓	38.63 - 30,490 - 0.2 = 7.94	↓	↓	↓
	↓ -7	↓	37.40 - 30,842 - 0.2 = 6.36	↓	↓	↓
45	300413-5 MS	↓	1.04	↓	↓	↓
	↓ -5 MSD	↓	0.99	↓	↓	↓

Continued to page

SIGNATURE _____ DATE _____

DISCLOSED TO AND UNDERSTOOD BY _____ DATE _____

PROPRIETARY INFORMATION

TITLE PROJECT DATE

Sample	IA	Weight (g)	Nulls	Comments: Initials	Bal. ID
300446-1	A	36.77 - 30.369 - 0.2 = 6.20	No	JMZ 6/6/18	B-6
300394-15	B	MeOH 95/5000	No	JMZ 6/7/18	B-6
↓ -18	↓	↓ 125/5000	↓	↓	↓
300412-8	A	38.41 - 30.897 - 0.2 = 7.31	No		
↓ -9		37.31 - 30.397 - 0.2 = 6.71			
↓ -10		37.06 - 30.639 - 0.2 = 6.82			
↓ -11		38.36 - 30.532 - 0.2 = 7.63			
↓ -12		37.68 - 30.595 - 0.2 = 6.89			
↓ -13		36.66 - 30.739 - 0.2 = 5.87			
↓ -14		36.99 - 30.513 - 0.2 = 6.28			
↓ -15		38.77 - 30.947 - 0.2 = 7.62			
↓ -16	B	37.94 - 30.516 - 0.2 = 7.22			
↓ -17	A	38.00 - 30.428 - 0.2 = 7.37			
↓ -18		38.72 - 30.863 - 0.2 = 7.66			
↓ -19		37.98 - 30.607 - 0.2 = 7.17			
↓ -20		38.12 - 30.611 - 0.2 = 7.31			
↓ -21		37.24 - 30.699 - 0.2 = 6.34			
↓ -22		37.26 - 30.389 - 0.2 = 6.67			
↓ -23		37.97 - 30.767 - 0.2 = 7.00			
↓ -25		37.05 - 30.686 - 0.2 = 6.16			
300394-15	B	MeOH 8/5000			
↓ -18	↓	↓ 9/5000			
300480-1	A	37.60 - 30.548 - 0.2 = 6.85			
↓ -2		38.41 - 30.587 - 0.2 = 7.62			
↓ -3		38.47 - 30.805 - 0.2 = 7.47			
↓ -4		36.74 - 30.135 - 0.2 = 6.41			
↓ -5		38.13 - 30.637 - 0.2 = 7.29			
↓ -6		37.75 - 30.527 - 0.2 = 7.02			
↓ -7		37.55 - 30.297 - 0.2 = 7.10			
↓ -8		38.52 - 30.890 - 0.2 = 7.48			
↓ -9		38.14 - 30.934 - 0.2 = 7.01			
↓ -10		38.58 - 30.871 - 0.2 = 7.51			
↓ -11		38.07 - 31.015 - 0.2 = 6.86			
↓ -12		38.55 - 31.083 - 0.2 = 7.27			
↓ -13		38.71 - 31.166 - 0.2 = 7.34			
300454-1	A	1.03			
300474-1		0.92			
↓ -2		0.93			
300475-1		1.00			
↓ -2		1.05			
300449-1	A	37.09 - 30.943 - 0.2 = 5.95			
↓ -2	↓	36.04 - 30.836 - 0.2 = 5.00			
300474-1	MS A	1.02			

Continued to page

DATE

SIGNATURE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE TVH/BTXE SOIL ALIQUOT PROJECT

DATE

Continued from page		ID	Weight (g)	Method	Comments: Initials	Bal. ID
Sample						
300474-1	MSD	A	0.98		JMZ 6/7/18	B-6
300452-1		↓	1.08			
5 300467-1		D	1.02			
300455-3		A	0.94			
↓ -6		↓	0.97		corp of 455-(1,2)	
↓ -12		↓	1.03		↓ -(4,5)	
↓ -15		↓	1.07		↓ -(9-11)	
10 300476-1		A	1.01			
300452-1	MS	↓	1.04			
↓ -1	MSD	↓	1.05			
300482-1		↓	0.90			
300487-1		↓	0.93			
15 300480-1		C	MeOH 100 / 200 5000	CON 6/8/18	NO CON 6/8/18	B-6
↓ -2		↓	200 / 5000			
↓ -3		↓	50 / 15000			
↓ -4		B	38.00 - 30.629 - 0.20 = 7.17			
↓ -5		C	MeOH 60 / 15000			
20 ↓ -6		C	30 / 15000			
↓ -7		B	38.30 - 30.646 - 0.20 = 7.45			
↓ -8		C	MeOH 200 / 15000			
↓ -9		↓	75 / 15000			
25 ↓ -10		↓	150 / 15000			
↓ -11		↓	90 / 15000			
↓ -12		B	38.75 - 31.079 - 0.20 = 7.47			
↓ -13		↓	38.22 - 30.784 - 0.20 = 7.24			
300480-3		C	MeOH 25 / 5000		NO JMZ 6/8/18	B-6
↓ -6		↓	15 / 5000			
30 ↓ -9		↓	30 / 5000			
300480-1		C	MeOH 50 / 15000		NO CON 6/8/18	B-6
↓ -3		↓	25 / 15000			
↓ -5		↓	30 / 5000			
↓ -6		↓	15 / 5000			
35 ↓ -8		↓	200 / 15000			
↓ -9		↓	30 / 15000			
↓ -10		↓	75 / 15000			
↓ -11		↓	45 / 15000			
300467-1		A	0.95		NO JMZ 6/8/18	B-6
40 300523-1		↓	38.08 - 30.632 - 0.2 = 7.25		corp of 467-(C,D)	
↓ -2		↓	36.44 - 30.759 - 0.2 = 5.48			
↓ -3		↓	38.05 - 30.595 - 0.2 = 7.26			
300474-1		A	0.96			
↓ -1	MS	↓	1.05			
45 ↓ -1	MSD	↓	1.03			

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE TVH/BTXE SOIL ALIQUOT PROJECT DATE

Continued from page	Sample	ID	Weight (g)	Notes	Comments: Particles	Bot. ID
	300479-2	A	0.92	No	JMZ 6/8/18	B-6
	300475-1	I	0.90			
5	I -2	I	1.08			
	300412-13	B	38.17 - 30.901 - 0.2 = 7.07			
	I -21	I	37.89 - 30.605 - 0.2 = 7.09			
	300449-1	B	36.72 - 30.998 - 0.2 = 5.57			
	I -2	I	37.22 - 30.945 - 0.2 = 6.08			
10	I -3	A	37.13 - 30.977 - 0.2 = 5.95			
	I -4	I	37.55 - 30.983 - 0.2 = 6.34			
	I -5	I	35.67 - 30.639 - 0.2 = 4.83			
	I -6	I	35.81 - 30.680 - 0.2 = 4.93			
	300454-1	A	0.90			
15	300480-2	C	MeOH 25/5000			
	300499-1	A	38.26 - 30.911 - 0.2 = 7.15	No	JMZ 4/8/18	B-6
	I -2	I	38.74 - 30.840 - 0.2 = 7.70			
	I -3	I	38.41 - 30.755 - 0.2 = 7.46			
20	I -4	I	38.76 - 30.802 - 0.2 = 7.76			
	I -5	I	35.98 - 30.534 - 0.2 = 5.25			
	300491-1	B	36.63 - 30.424 - 0.2 = 6.01			
	300501-1	A	0.91			
	300525-1	C	35.04 - 30.592 - 0.2 = 4.25			
	300520-1	A	0.95			
25	I -1 MS	I	0.92			
	I -1 MSD	I	0.91			
	300500-1	B	1.03			
	I -2	C	1.04			
	300497-5	A	1.04		comp of 497 - (1-4)	
30	I -8	I	1.02		I - (6,7)	
	I -12	I	0.94		I - (9-11)	
	I -13	B	0.90			
	I -18	A	0.96		comp of 497 - (14-17)	
	I -19	B	1.04			
35	I -23	A	1.10		comp of 497 - (20-22)	
	I -27	I	1.06		I - (24-26)	
	I -30	I	0.99		I - (28,29)	
	I -33	I	0.94		comp of 497 - (31), 435-7	
	I -34	I	1.05		I -32, 435-8	
40	300453-1 JMZ MS	A	37.87 - 30.514 - 0.2 = 7.16	No	JMZ 6/8/18	B-6
	I -2 6RM MSD	I	37.24 - 30.819 - 0.2 = 6.22			
	I -3	I	37.85 - 30.502 - 0.2 = 7.15			
	I -4	I	37.43 - 30.606 - 0.2 = 6.62			
	I -5	I	37.84 - 30.441 - 0.2 = 7.20			
45	I -6	I	38.30 - 30.827 - 0.2 = 7.27			

SIGNATURE

DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

PROJECT S035 MeOH Prep Log

Continued from Page

Bal. ID	Date & initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments	Bal. ID
	5/25/18 AMF	300019-8 E	6.38	10.0	DP303	38.40-31.825	-0.20	client prepped	B-8
	↓	↓ -10 ↓	6.10	↓	↓	38.15-31.855	↓	↓	↓
	5/25/18 JH2	300019-2 E	7.09	5.0	DP303	39.45-32.16	-0.2	client prepped	B-6
	↓	↓	↓	↓	↓	↓	↓	↓	↓
	5/29/18 Zia	300118-1 E	6.26	5.0	DQ538	35.36-28.54	-0.56	client prepped	B-8
	5/29/18 JH2	300019-2 E	3.17	10.0	DP303	35.53-32.16	-0.2	client prepped	B-6
	5/30/18 Zia	300177-1 C	5.71	5.0	DP303	33.78-27.867	-0.2	client prepped	B-8
	↓	↓ -2 ↓	6.08	↓	↓	34.15-27.874	↓	↓	↓
	↓	↓ -3 ↓	5.40	↓	↓	34.16-28.558	↓	↓	↓
	↓	↓ -4 ↓	5.78	↓	↓	34.34-28.359	↓	↓	↓
	5/30/18 JH2	300139-1 JH2 300118-5/31 E	6.95	5.0	DQ538	35.70-28.559	-0.2	client prepped	B-6
	↓	300177-7 C	7.32	↓	↓	35.65-28.135	-0.2	client prepped	↓
	5/31/18 AMT	300223-3C	7.06	5.0	↓	35.78-28.522	-0.2	↓	B-8
	↓	↓ -4 C	6.06	↓	↓	34.58-28.324	-0.2	↓	↓
	6/7/18 Zia	300446-1 E	4.85	5.0	DJ239	33.29-28.239	-0.2	↓	↓
	6/8/18 AMF	300480-1 C	6.19 6.07 7.14	5.0	DQ538	35.20-28.807 35.63-28.286	-0.20	client prepped	B-8
	↓	↓ -2 ↓	7.14	↓	↓	35.63-28.286	↓	↓	↓
	↓	↓ -3 ↓	7.1	↓	↓	35.85-28.54	↓	↓	↓
	↓	↓ -4 ↓	6.86	↓	↓	35.34-28.285	↓	↓	↓
	↓	↓ -5 ↓	6.29	↓	↓	34.84-28.349	↓	↓	↓
	↓	↓ -6 ↓	6.98	↓	↓	35.43-28.247	↓	↓	↓
	↓	↓ -7 ↓	7.39	↓	↓	36.07-28.482	↓	↓	↓
	↓	↓ -8 ↓	7.06	↓	↓	35.47-28.214	↓	↓	↓
	↓	↓ -9 ↓	6.39	↓	↓	34.95-28.360	↓	↓	↓
	↓	↓ -10 ↓	7.06	↓	↓	35.62-28.357	↓	↓	↓
	↓	↓ -11 ↓	6.78	↓	↓	35.57-28.591	↓	↓	↓
	↓	↓ -12 ↓	6.69	↓	↓	35.26-28.368	↓	↓	↓
	↓	↓ -13 ↓	6.86	↓	↓	35.48-28.422	↓	↓	↓

Continued on Page

Read and Understood By

Signed

Date

Signed

Date

TITLE	Sample	ID	Weight (g)	PROJECT	MHS04	Comments: Initials	DATE
Continued from page							
	300453-7	A	38.29 - 30.871 - 0.2 = 7.22		No	JM2 6/8/18	B-6
	↓ -8	↓	37.81 - 30.734 - 0.2 = 6.88		↓	↓	↓
	Prep Blk	-	MeOH		↓	PAW 6/10/18	B-8
5	300519-2	A	↓ ^{PAW} 200/5000 ^{5/5000} 10/5000		↓	↓	↓
	300497-34	A	0.95		No	JM2 6/11/18	Comp of 497-32, 455-8 B-6
	300500-1	B	1.08				
	↓ -2	C	0.91				
	300490-1	A	1.09				
10	300497-34 MS	↓	0.99			Comp of 497-32, 455-8	
	↓ -34 MSD	↓	0.91			↓	
	300400-1	A	MeOH 1/5000				
	↓ -2	↓	↓				
	↓ -3	↓	↓				
15	300453-3	B	38.21 - 30.742 - 0.2 = 7.27				
	↓ -4	↓	38.59 - 30.777 - 0.2 = 7.61				
	↓ -6	↓	36.84 - 30.689 - 0.2 = 5.95				
	↓ -8	↓	37.57 - 30.866 - 0.2 = 6.50				
	↓ -9	A	36.21 - 30.686 - 0.2 = 5.32				
20	↓ -10	↓	38.08 - 30.764 - 0.2 = 7.12				
	↓ -11	↓	37.87 - 30.757 - 0.2 = 6.91				
	↓ -12	↓	38.40 - 30.942 - 0.2 = 7.26				
	↓ -15	↓	38.18 - 30.599 - 0.2 = 7.38				
	↓ -16	↓	38.70 - 30.778 - 0.2 = 7.72				
25	↓ -17	↓	38.26 - 30.708 - 0.2 = 7.35				
	↓ -18	↓	38.08 - 30.859 - 0.2 = 7.02				
	↓ -19	↓	37.89 - 30.351 - 0.2 = 7.34				
	↓ -20	↓	38.03 - 30.660 - 0.2 = 7.17				
	↓ -21	↓	37.91 - 30.990 - 0.2 = 6.72				
30	↓ -22	↓	38.97 - 30.893 - 0.2 = 7.38				
	↓ -23	↓	38.02 - 30.846 - 0.2 = 6.97				
	↓ -24	↓	37.86 - 30.979 - 0.2 = 6.68				
	300412-21	E	0.92				
	300490-1 MS	A	0.97				
35	↓ -1 MSD	↓	1.06				
	300565-1	A	0.95				
	300540-2	A	1.05			Comp Containers C+D	
	300543-1	A	0.98				
	300559-3	A	1.03			Comp 559-(1,2)	
40	300542-5	↓	1.00			542-(1-4)	
	↓ -10	↓	1.02			↓ - (6-9)	
	↓ -15	↓	1.02			↓ - (11-14)	
	↓ -18	↓	1.09			↓ - (16,17)	
	300574-4	↓	0.96			544-(1-3)	
45	↓ -8	↓	1.02			↓	
SIGNATURE					DATE		
DISCLOSED TO AND UNDERSTOOD BY				DATE		PROPRIETARY INFORMATION	

Laboratory Job Number 300412

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Soil

Total Extractable Hydrocarbons			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID: BR11-1SB013[3] Batch#: 260428
 Type: SAMPLE Prepared: 06/12/18
 Lab ID: 300412-001 Analyzed: 06/13/18
 Moisture: 17%

Analyte	Result	RL	MDL
Diesel C10-C24	0.84 J Y Z	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	99	59-130

Field ID: BR11-1SB013[5] Batch#: 260428
 Type: SAMPLE Prepared: 06/12/18
 Lab ID: 300412-002 Analyzed: 06/13/18
 Moisture: 17%

Analyte	Result	RL	MDL
Diesel C10-C24	0.67 J Y Z	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	106	59-130

Field ID: BR11-1SB013[7] Batch#: 260428
 Type: SAMPLE Prepared: 06/12/18
 Lab ID: 300412-003 Analyzed: 06/13/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	0.48 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	99	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID: BR11-1SB013[10] Batch#: 260428
 Type: SAMPLE Prepared: 06/12/18
 Lab ID: 300412-004 Analyzed: 06/13/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	0.80 J Y Z	1.2	0.36
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	105	59-130

Field ID: BR11-1SB013[15] Batch#: 260454
 Type: SAMPLE Prepared: 06/13/18
 Lab ID: 300412-005 Analyzed: 06/13/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	0.93 J Y Z	1.2	0.35
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	81	59-130

Field ID: BR11-1SB013[20] Batch#: 260454
 Type: SAMPLE Prepared: 06/13/18
 Lab ID: 300412-006 Analyzed: 06/13/18
 Moisture: 17%

Analyte	Result	RL	MDL
Diesel C10-C24	0.99 J Y Z	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	84	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID: BR11-1SB013[25] Batch#: 260454
 Type: SAMPLE Prepared: 06/13/18
 Lab ID: 300412-007 Analyzed: 06/13/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	0.82 J Y Z	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	85	59-130

Field ID: BR11-1SB013[30] Batch#: 260454
 Type: SAMPLE Prepared: 06/13/18
 Lab ID: 300412-008 Analyzed: 06/13/18
 Moisture: 10%

Analyte	Result	RL	MDL
Diesel C10-C24	0.39 J Y	1.1	0.34
Motor Oil C24-C36	ND	5.5	1.7

Surrogate	%REC	Limits
o-Terphenyl	95	59-130

Field ID: BR11-1SB013[35] Batch#: 260454
 Type: SAMPLE Prepared: 06/13/18
 Lab ID: 300412-009 Analyzed: 06/13/18
 Moisture: 8%

Analyte	Result	RL	MDL
Diesel C10-C24	2.2 Y Z	1.1	0.33
Motor Oil C24-C36	7.0 Y Z	5.4	1.6

Surrogate	%REC	Limits
o-Terphenyl	92	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID: BR11-1SB013[40] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-010 Analyzed: 06/15/18
 Moisture: 8%

Analyte	Result	RL	MDL
Diesel C10-C24	1.4 Y Z	1.1	0.33
Motor Oil C24-C36	1.7 J Y Z	5.5	1.7

Surrogate	%REC	Limits
o-Terphenyl	102	59-130

Field ID: BR11-1SB013[45] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-011 Analyzed: 06/15/18
 Moisture: 10%

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.1	0.34
Motor Oil C24-C36	ND	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	105	59-130

Field ID: BR11-1SB013[50] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-012 Analyzed: 06/15/18
 Moisture: 13%

Analyte	Result	RL	MDL
Diesel C10-C24	0.69 J Y Z	1.2	0.35
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	104	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID: DUP06052018-01 Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-013 Analyzed: 06/15/18
 Moisture: 8%

Analyte	Result	RL	MDL
Diesel C10-C24	0.40 J Y	1.1	0.33
Motor Oil C24-C36	ND	5.4	1.6

Surrogate	%REC	Limits
o-Terphenyl	106	59-130

Field ID: BR11-1SB017[3] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-014 Analyzed: 06/15/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	9.9 Y	1.2	0.35
Motor Oil C24-C36	20	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	105	59-130

Field ID: BR11-1SB017[5] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-015 Analyzed: 06/15/18
 Moisture: 17%

Analyte	Result	RL	MDL
Diesel C10-C24	1.2 Y Z	1.2	0.37
Motor Oil C24-C36	5.5 J Y Z	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	109	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID: BR11-1SB017[7] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-016 Analyzed: 06/15/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	0.83 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	97	59-130

Field ID: BR11-1SB017[10] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-017 Analyzed: 06/15/18
 Moisture: 16%

Analyte	Result	RL	MDL
Diesel C10-C24	0.97 J Y Z	1.2	0.36
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	99	59-130

Field ID: BR11-1SB017[15] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-018 Analyzed: 06/15/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	1.9 Y Z	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	103	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID: BR11-1SB017[20] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-019 Analyzed: 06/15/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	0.57 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	98	59-130

Field ID: BR11-1SB017[25] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-020 Analyzed: 06/15/18
 Moisture: 16%

Analyte	Result	RL	MDL
Diesel C10-C24	0.56 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	98	59-130

Field ID: BR11-1SB017[30] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-021 Analyzed: 06/15/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	0.47 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	101	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/05/18
Basis:	dry	Received:	06/05/18

Field ID: BR11-1SB017[35] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-022 Analyzed: 06/15/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.2	0.35
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	97	59-130

Field ID: BR11-1SB017[40] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-023 Analyzed: 06/15/18
 Moisture: 19%

Analyte	Result	RL	MDL
Diesel C10-C24	0.45 J Y	1.2	0.38
Motor Oil C24-C36	ND	6.2	1.9

Surrogate	%REC	Limits
o-Terphenyl	99	59-130

Field ID: DUP06052018-02 Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300412-025 Analyzed: 06/15/18
 Moisture: 16%

Analyte	Result	RL	MDL
Diesel C10-C24	1.0 J Y Z	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	90	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC935614	Batch#:	260428
Matrix:	Soil	Prepared:	06/12/18
Units:	mg/Kg	Analyzed:	06/12/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	49.75	100	56-137

Surrogate	%REC	Limits
o-Terphenyl	119	59-130

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC935724	Batch#:	260454
Matrix:	Soil	Prepared:	06/13/18
Units:	mg/Kg	Analyzed:	06/13/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	45.13	90	56-137

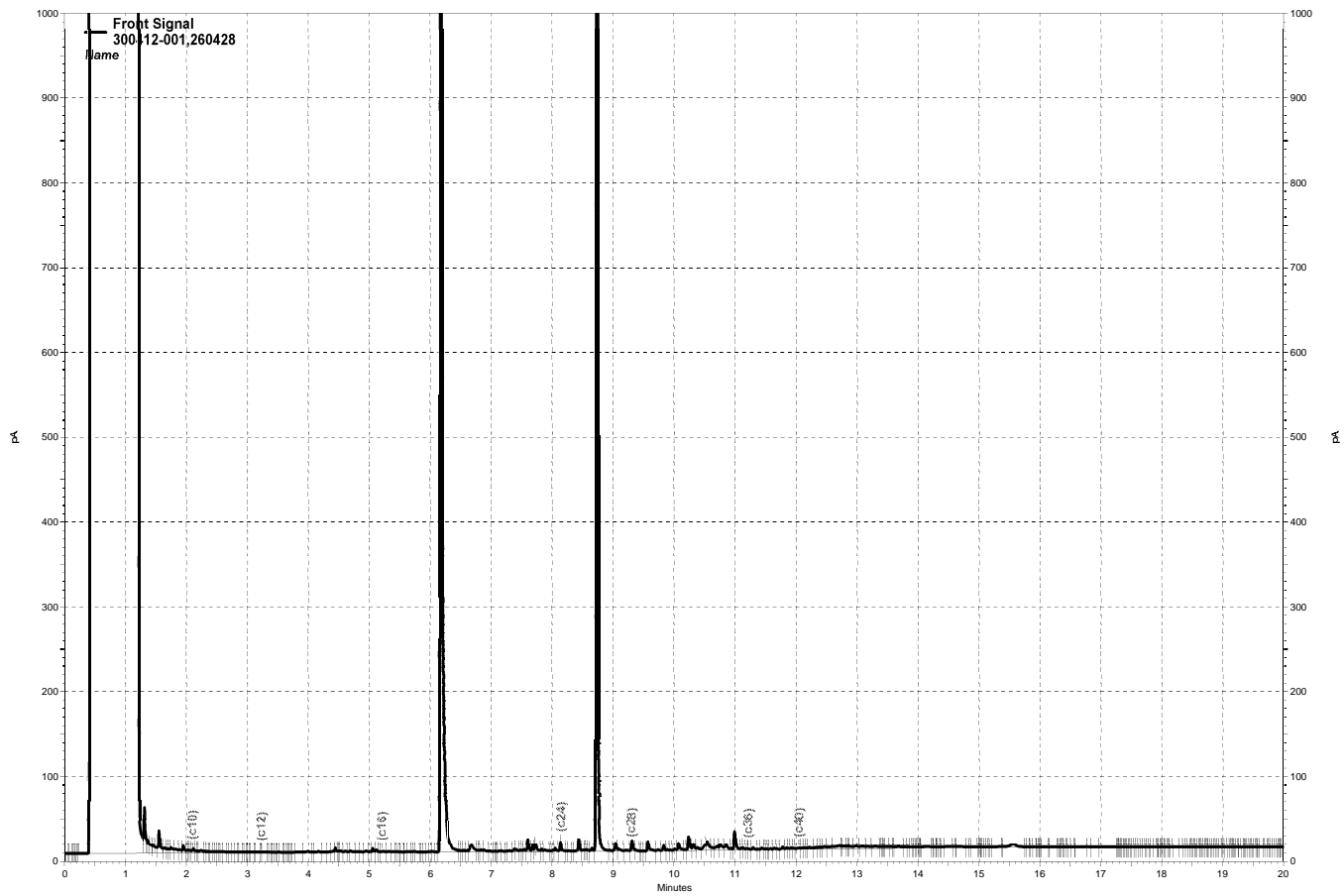
Surrogate	%REC	Limits
o-Terphenyl	98	59-130

Batch QC Report

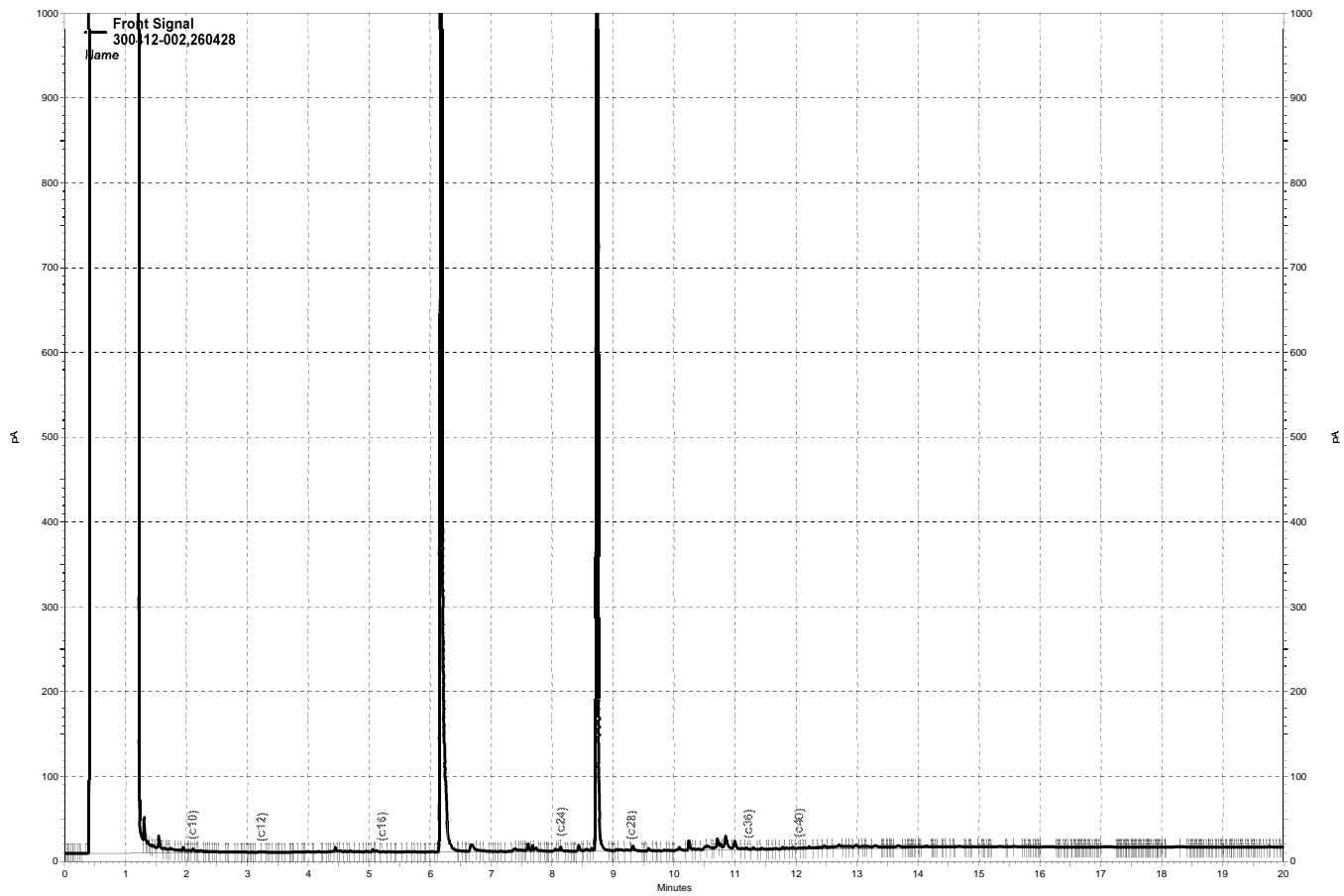
Total Extractable Hydrocarbons			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC936031	Batch#:	260530
Matrix:	Soil	Prepared:	06/15/18
Units:	mg/Kg	Analyzed:	06/15/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	47.93	96	56-137

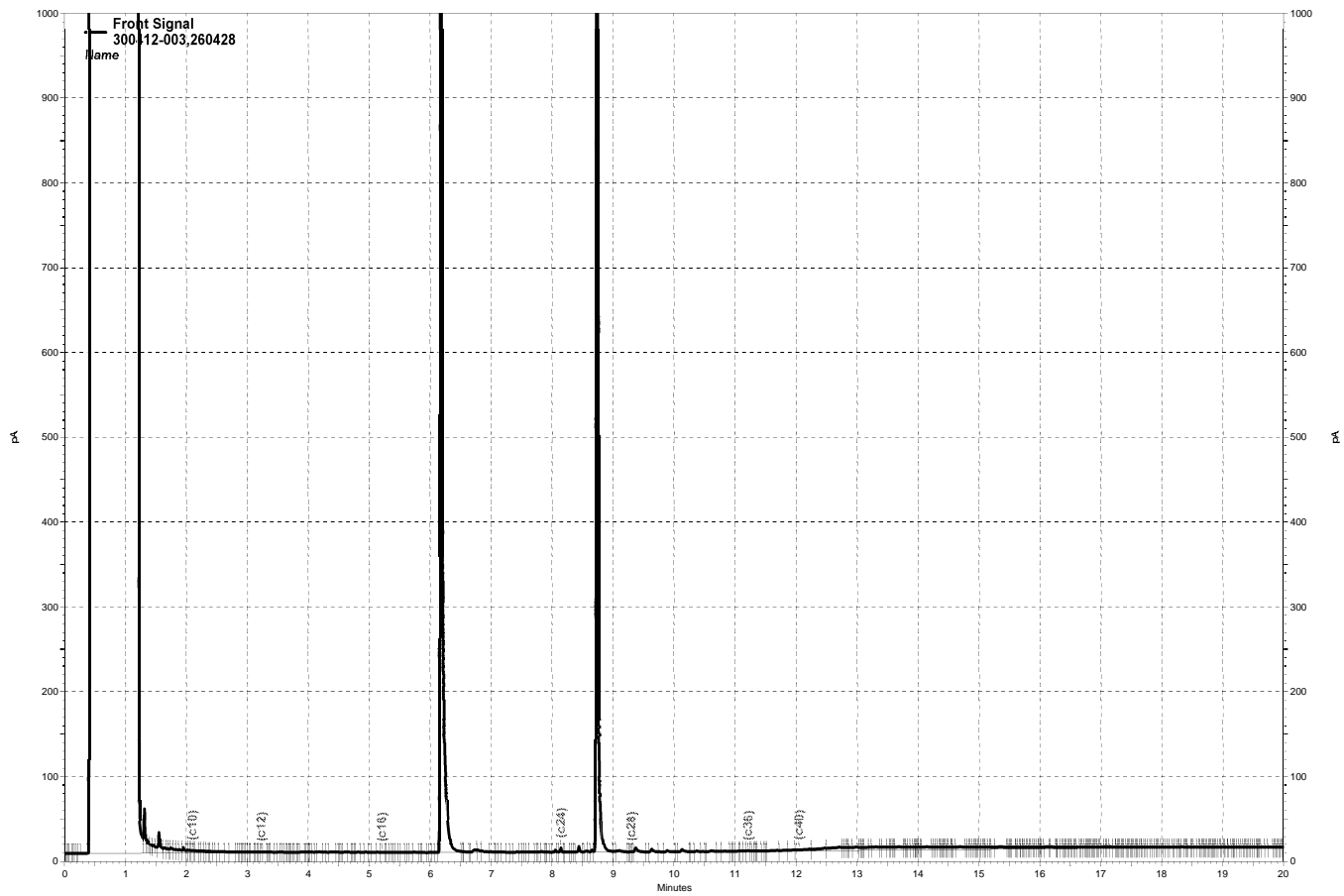
Surrogate	%REC	Limits
o-Terphenyl	103	59-130



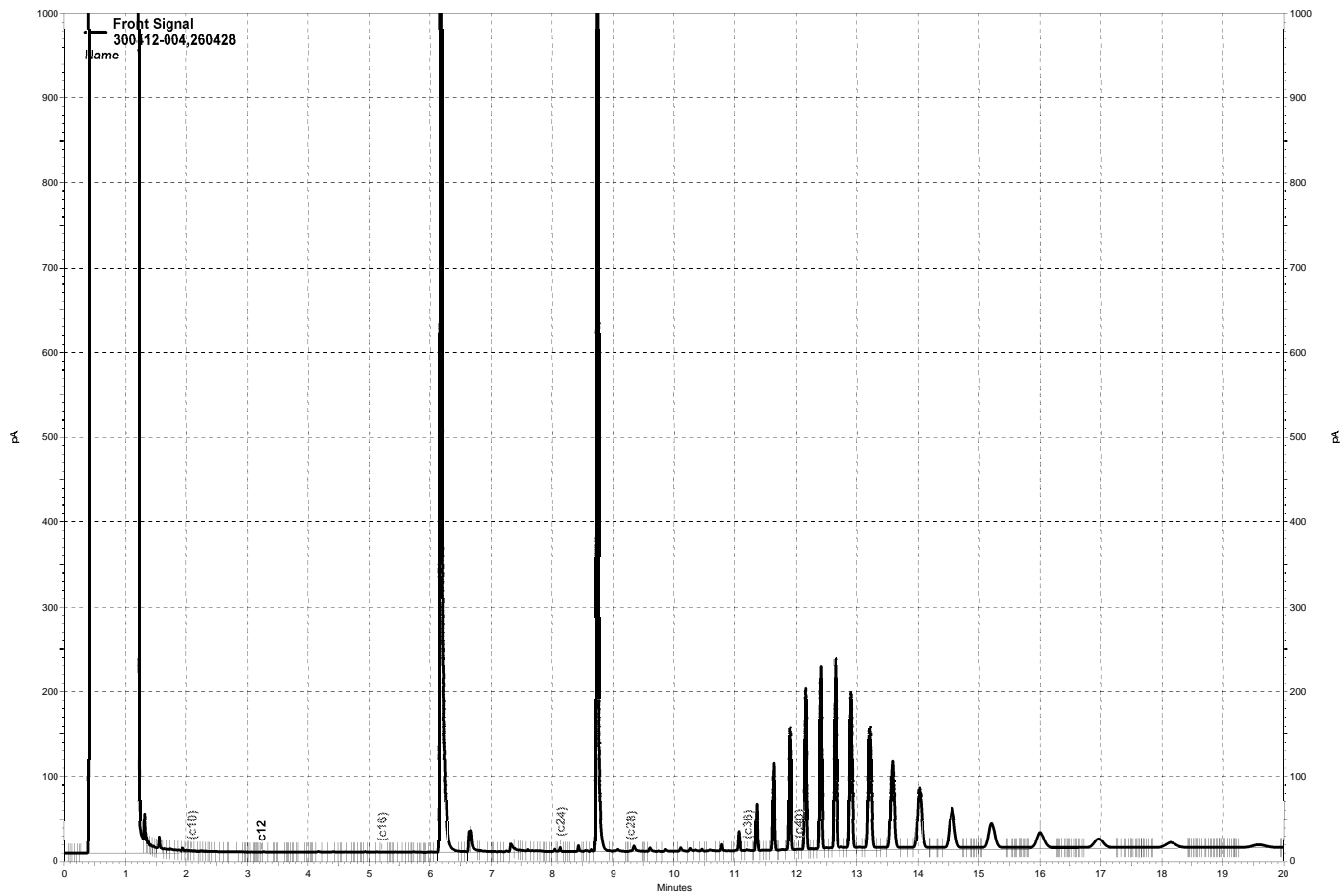
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a038.dat, Front Signal



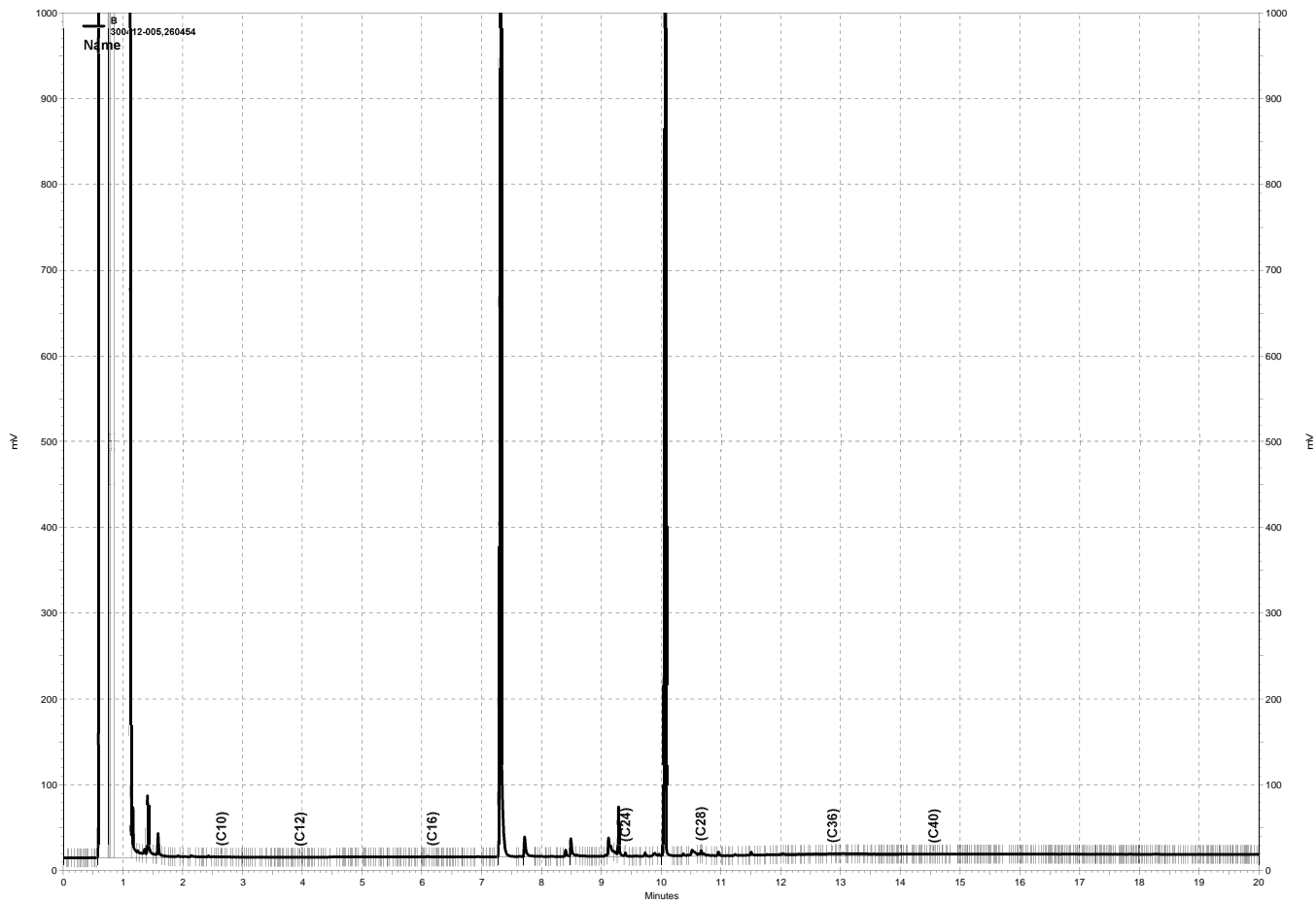
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a039.dat, Front Signal



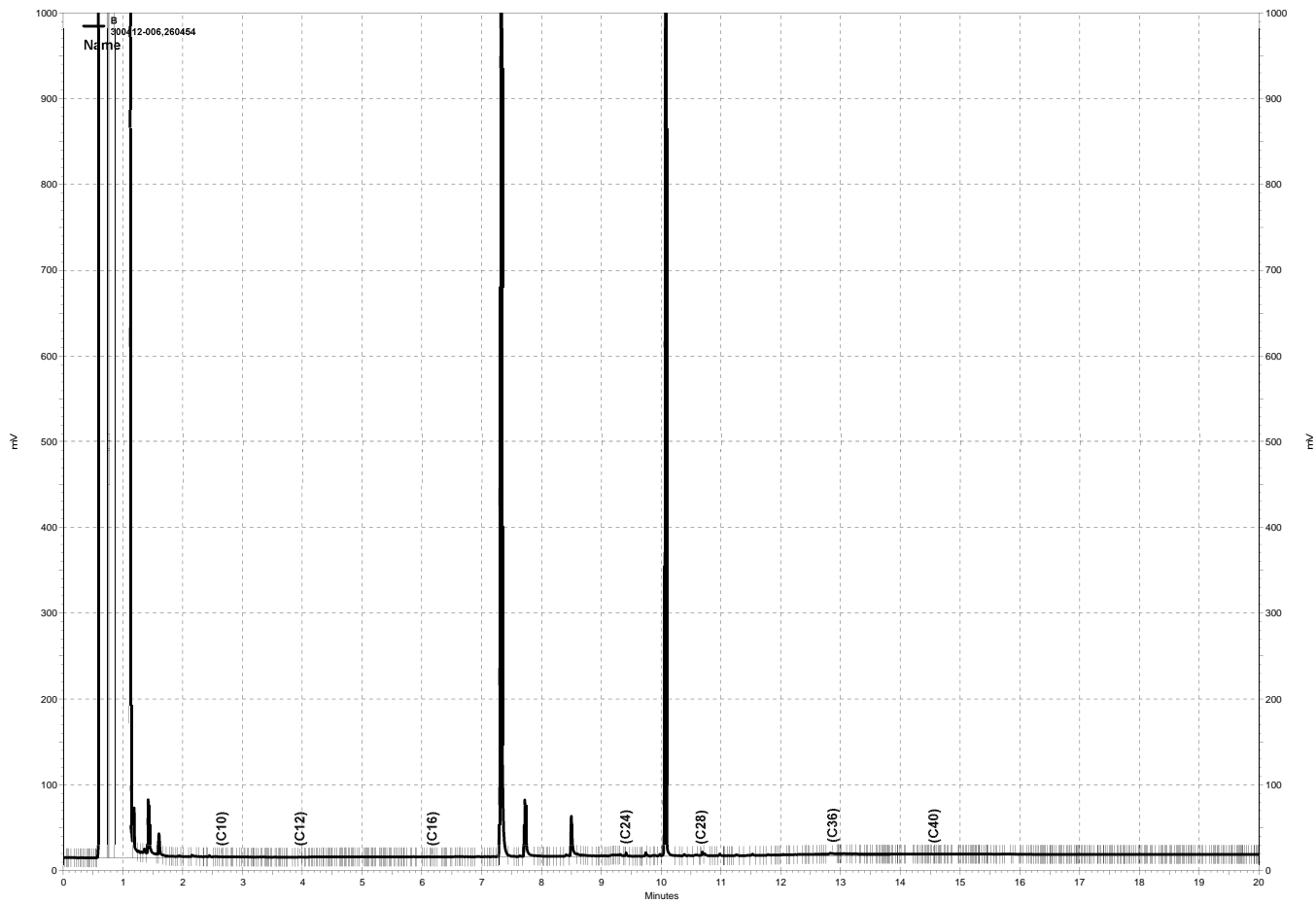
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a040.dat, Front Signal



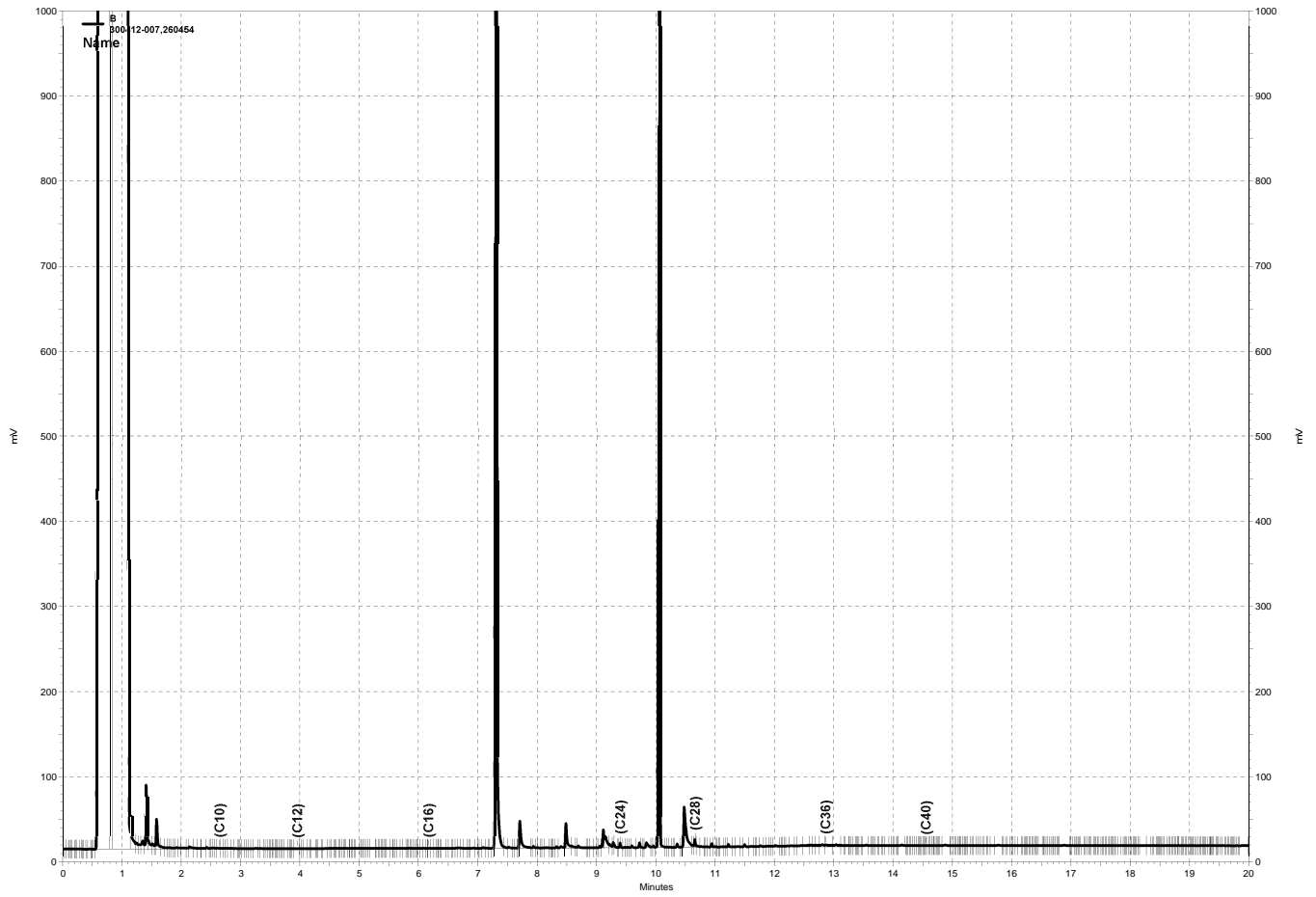
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a041.dat, Front Signal



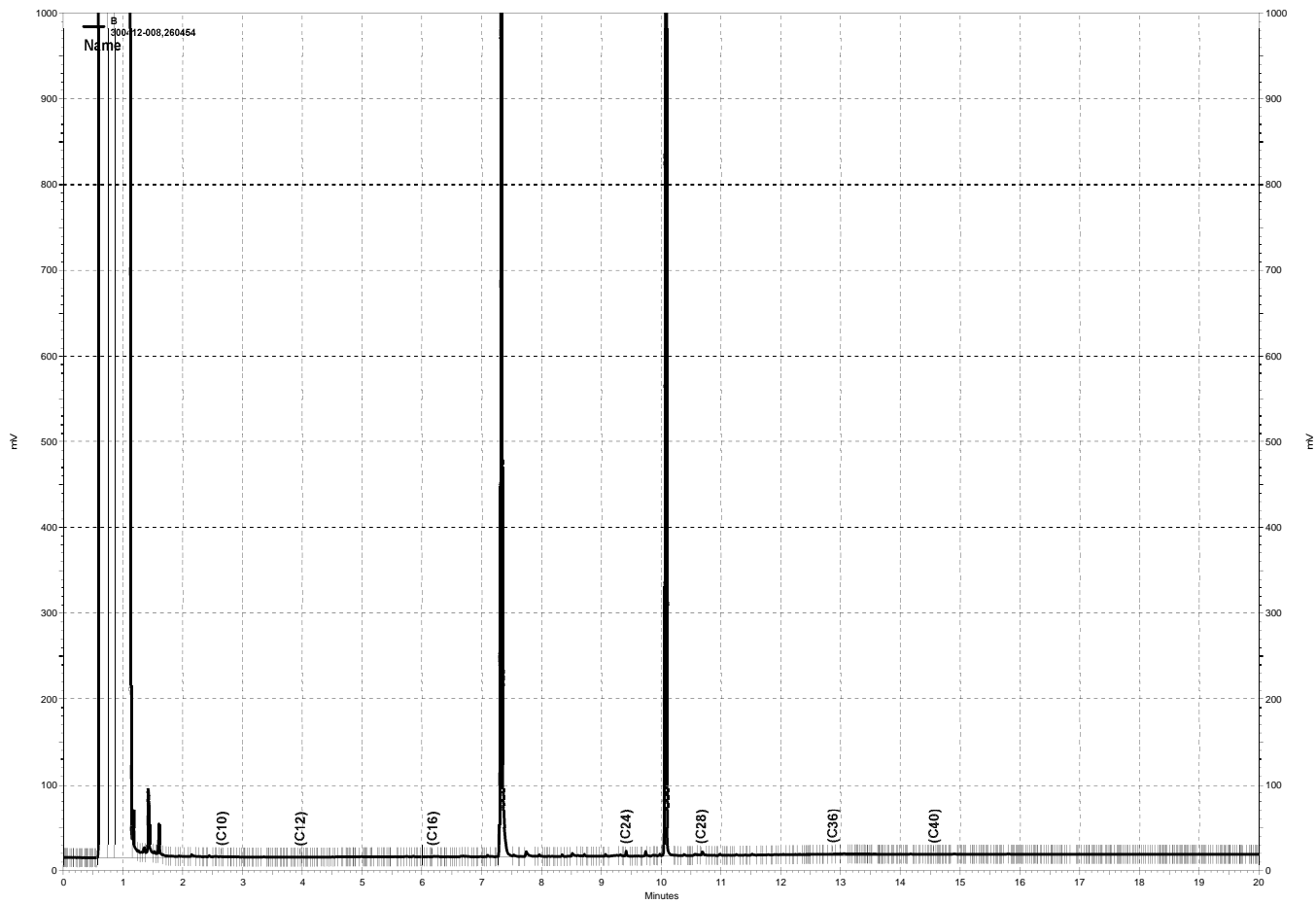
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\164b025, B



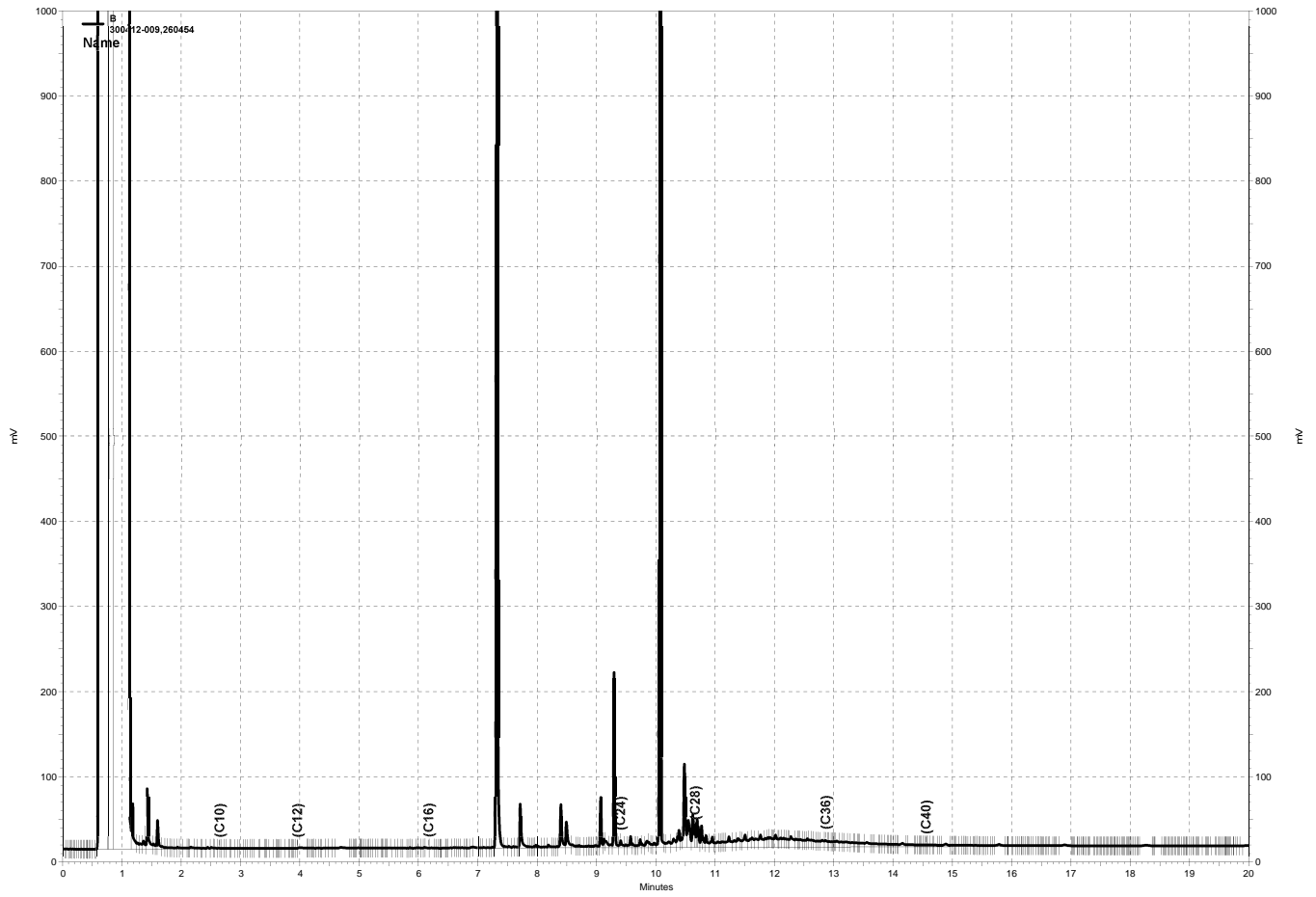
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\164b026, B



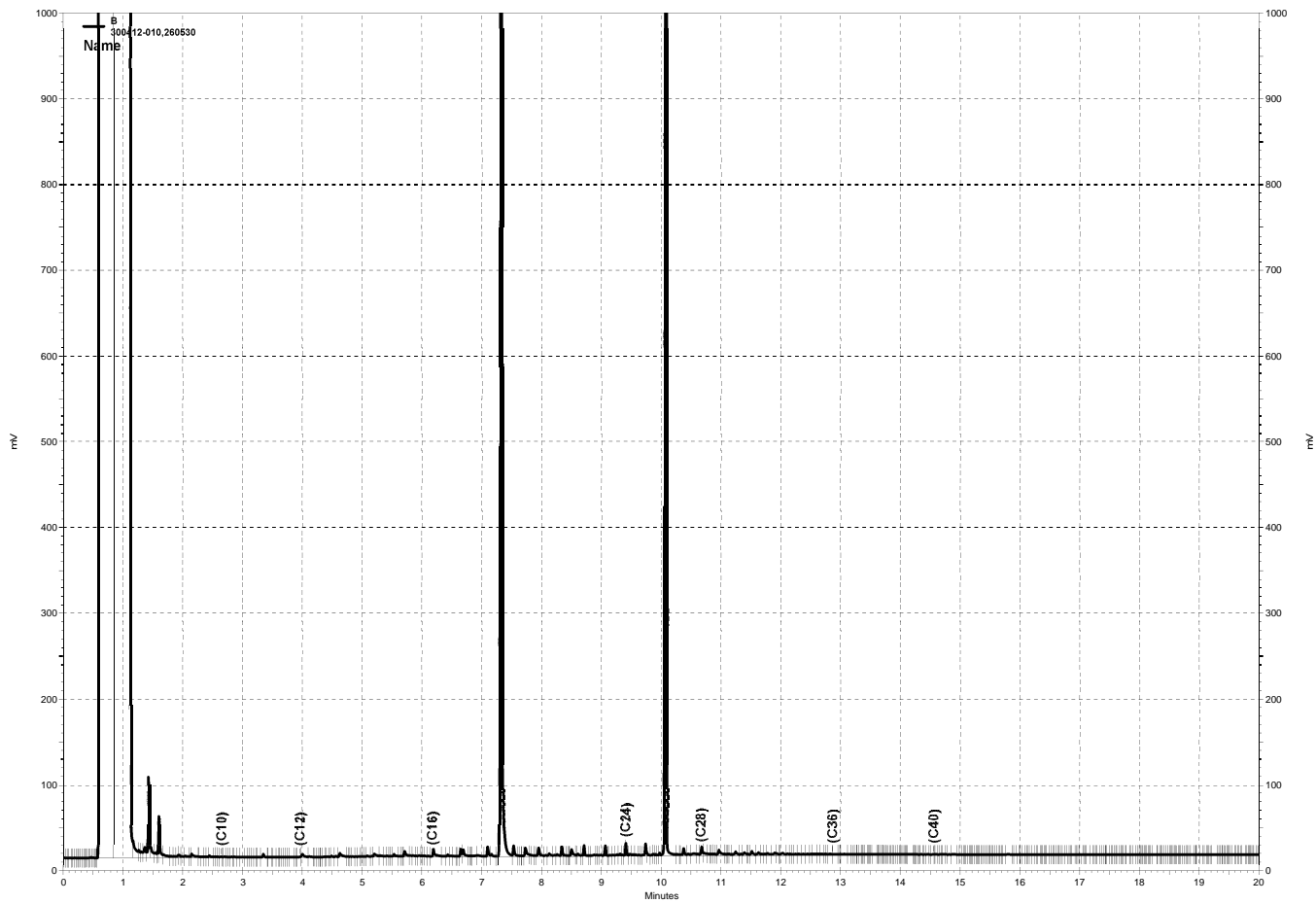
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\164b019, B



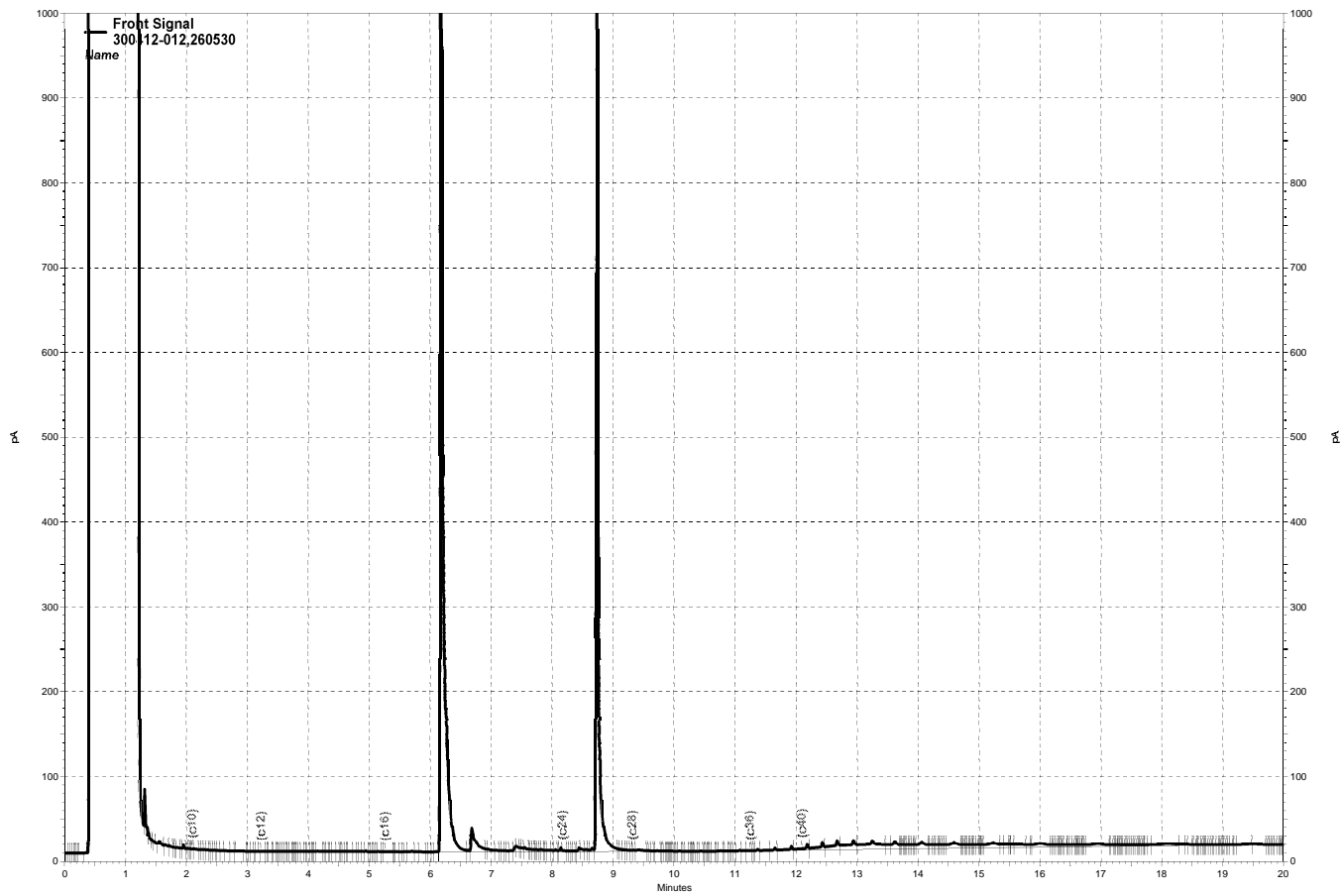
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\164b027, B



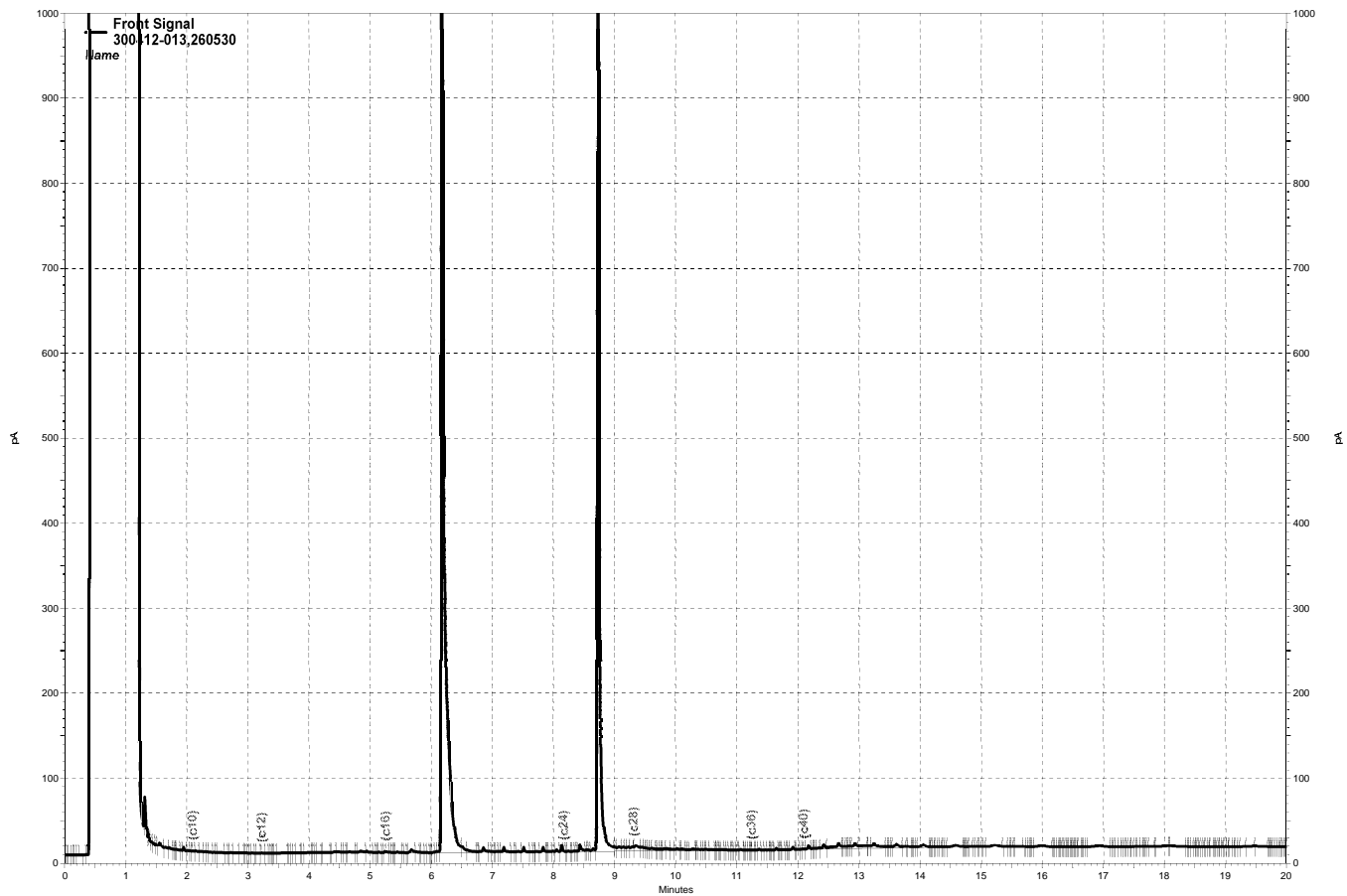
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\164b028, B



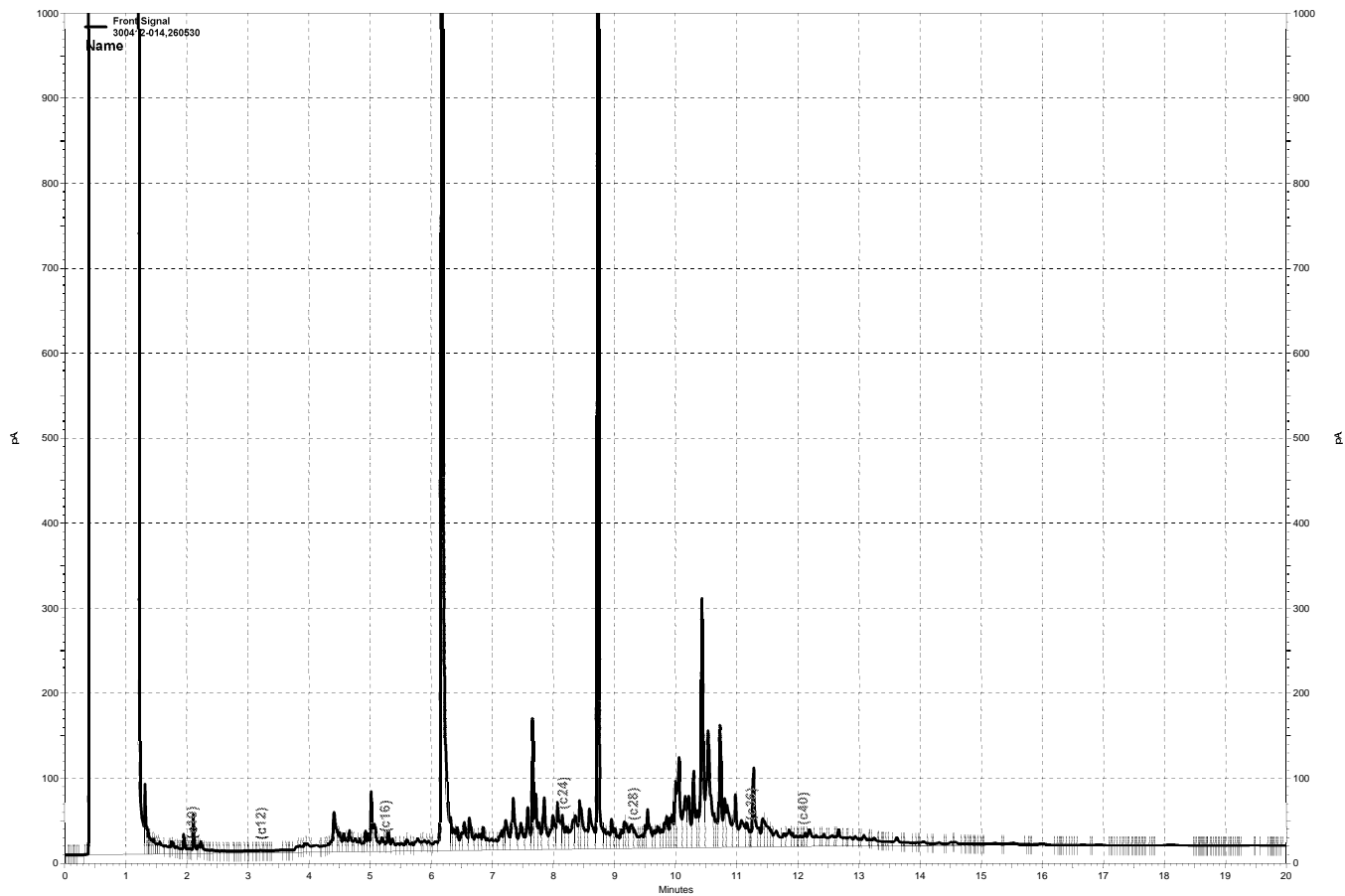
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\166b010, B



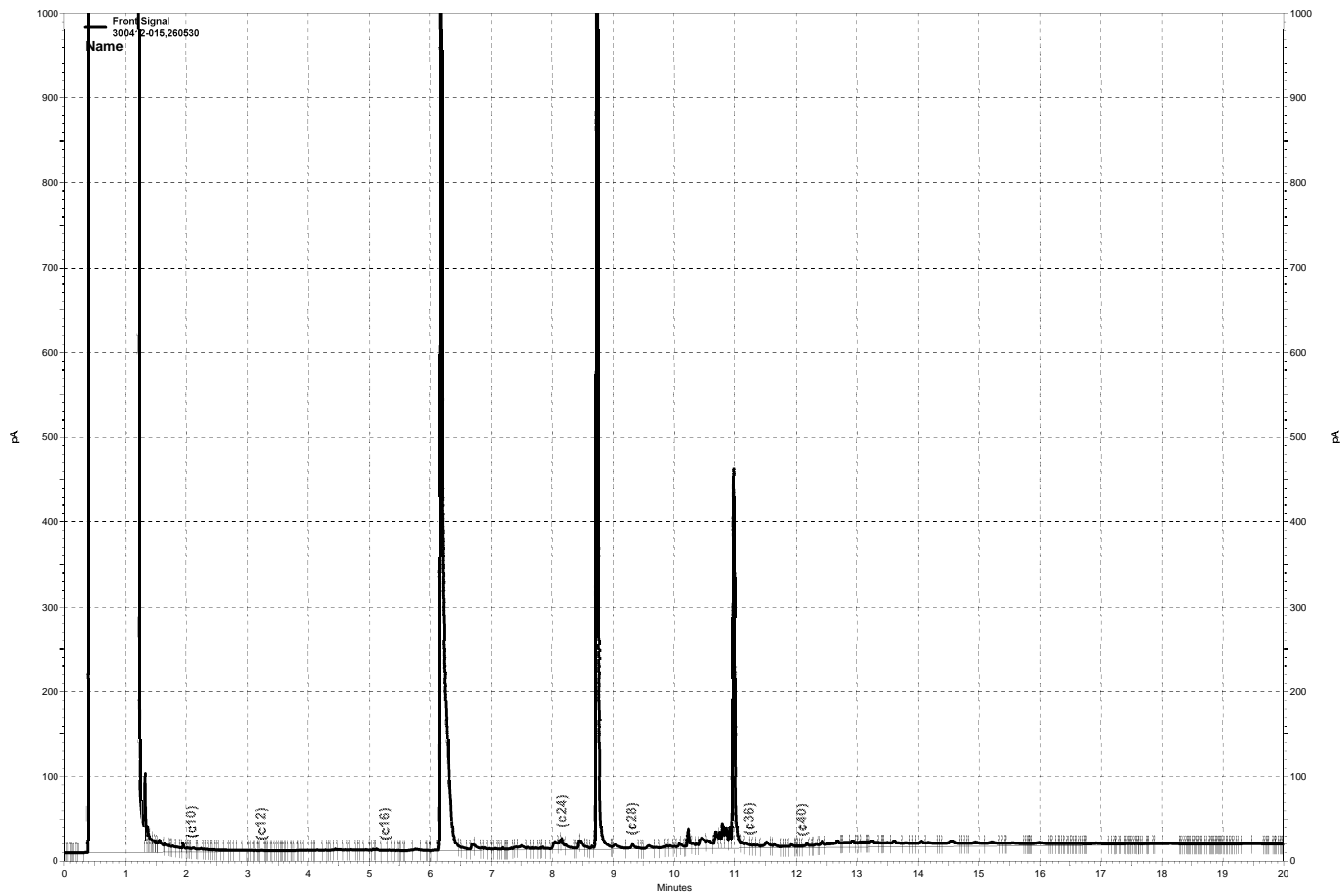
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\166a006.dat, Front Signal



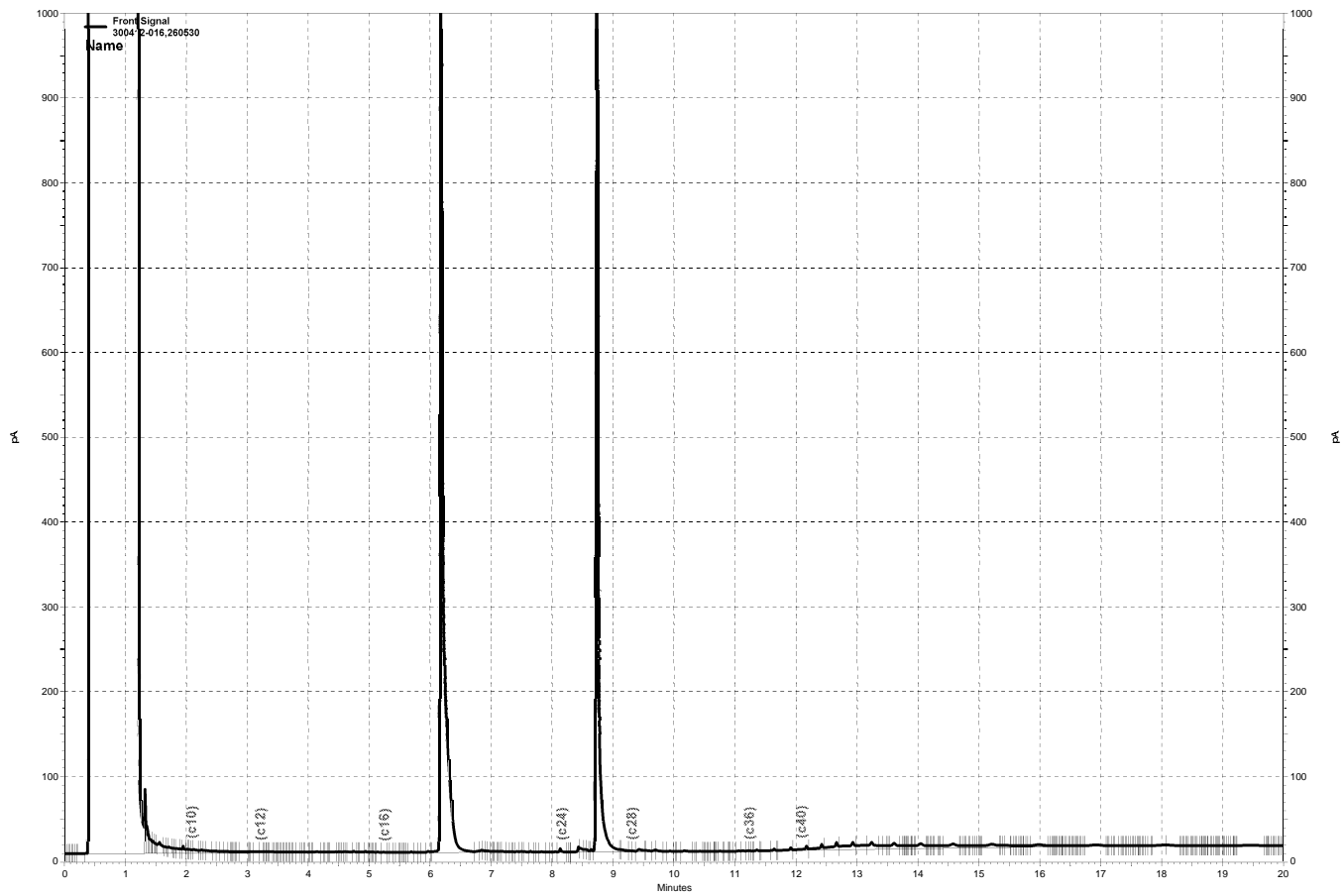
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\166a007.dat, Front Signal



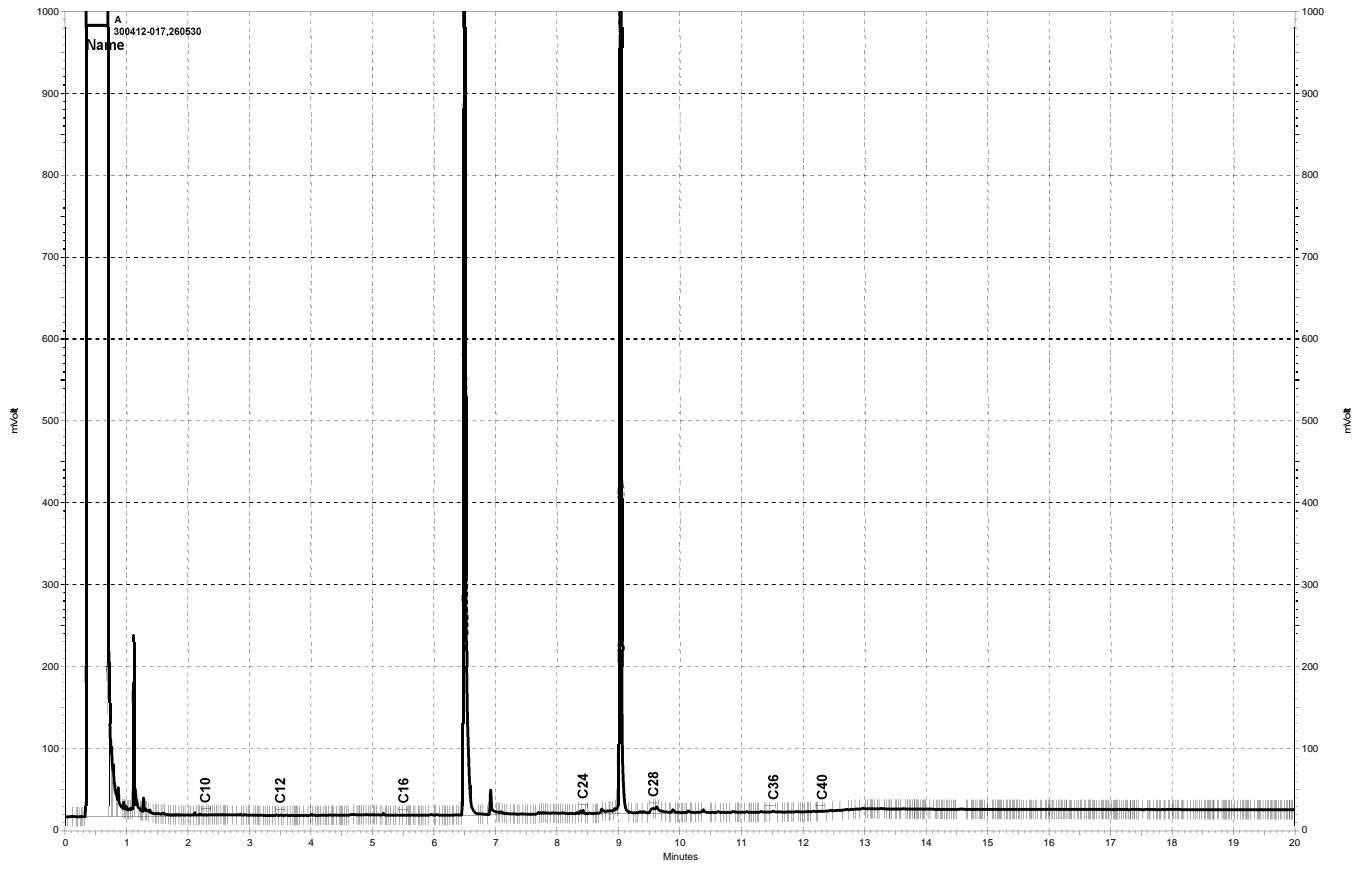
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\166a008.dat, Front Signal



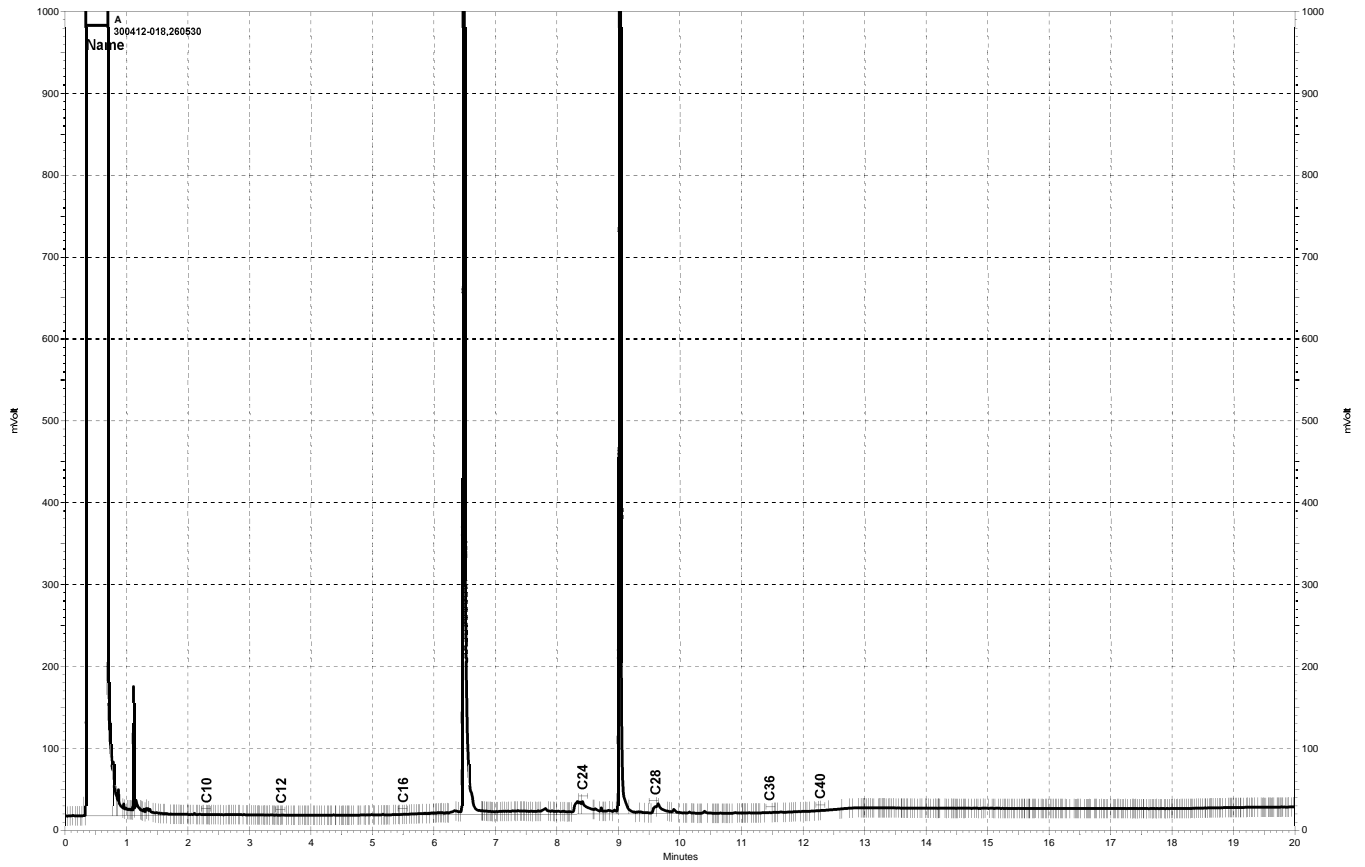
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\166a009.dat, Front Signal



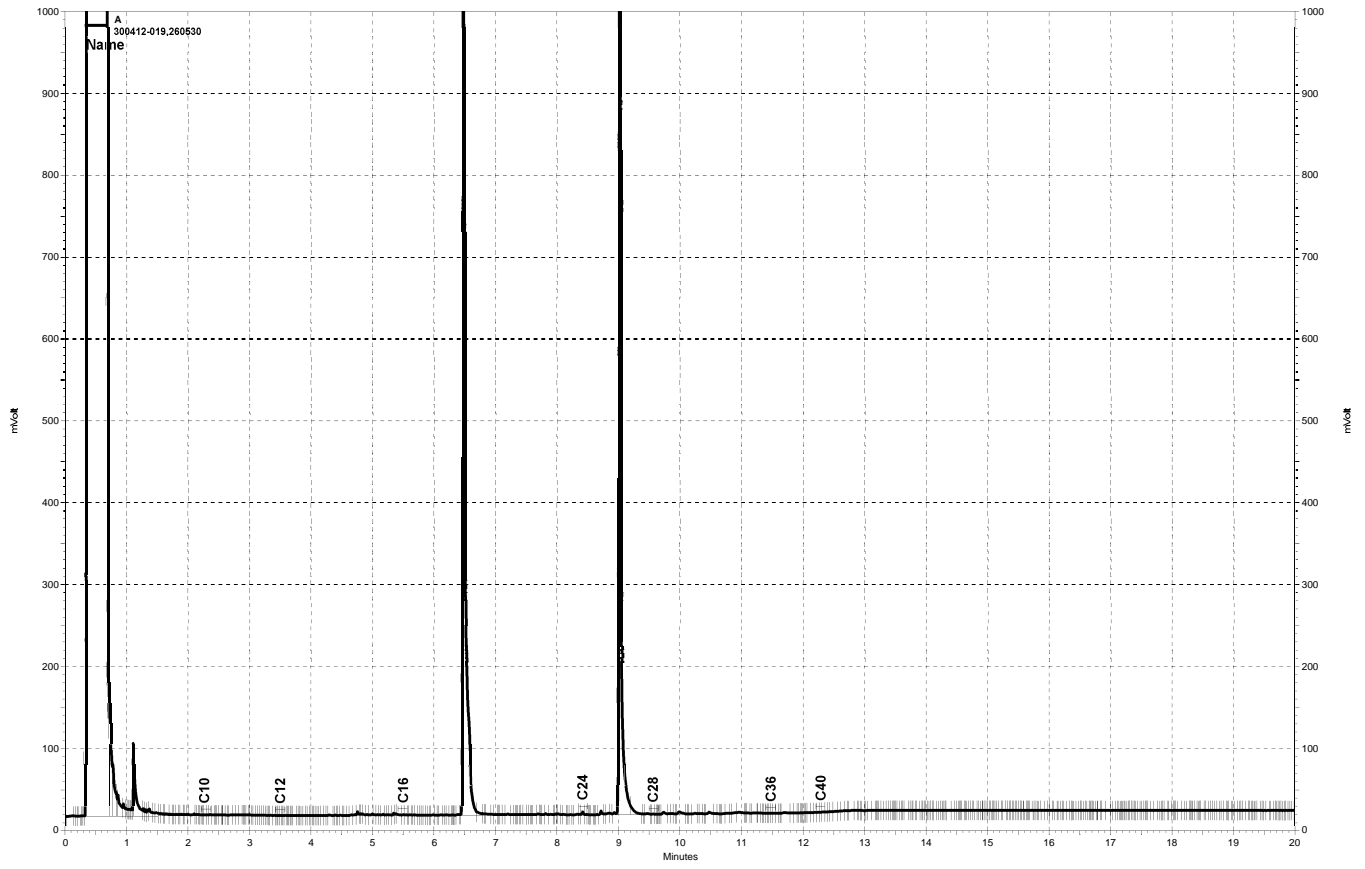
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\166a010.dat, Front Signal



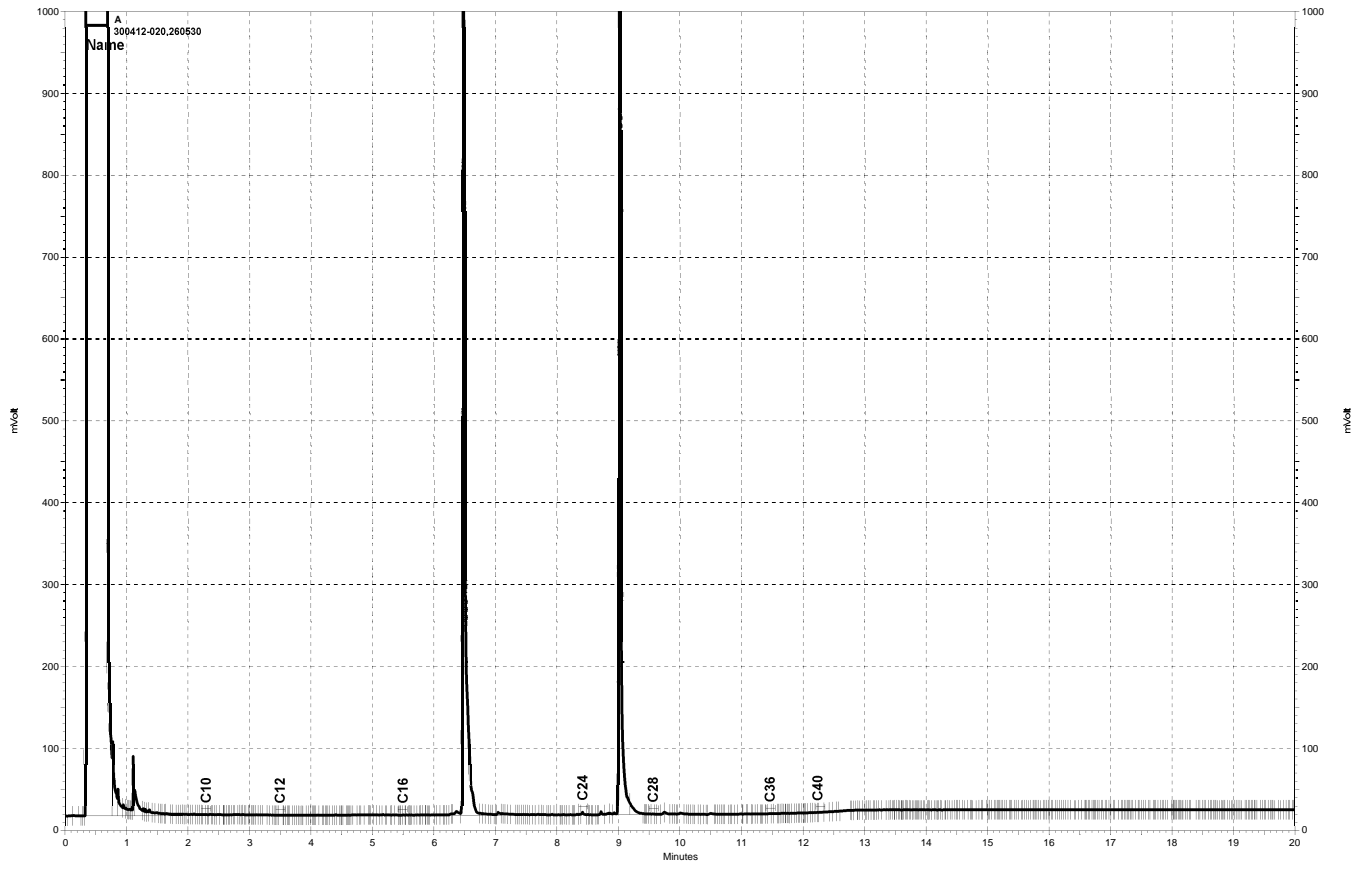
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\166a006, A



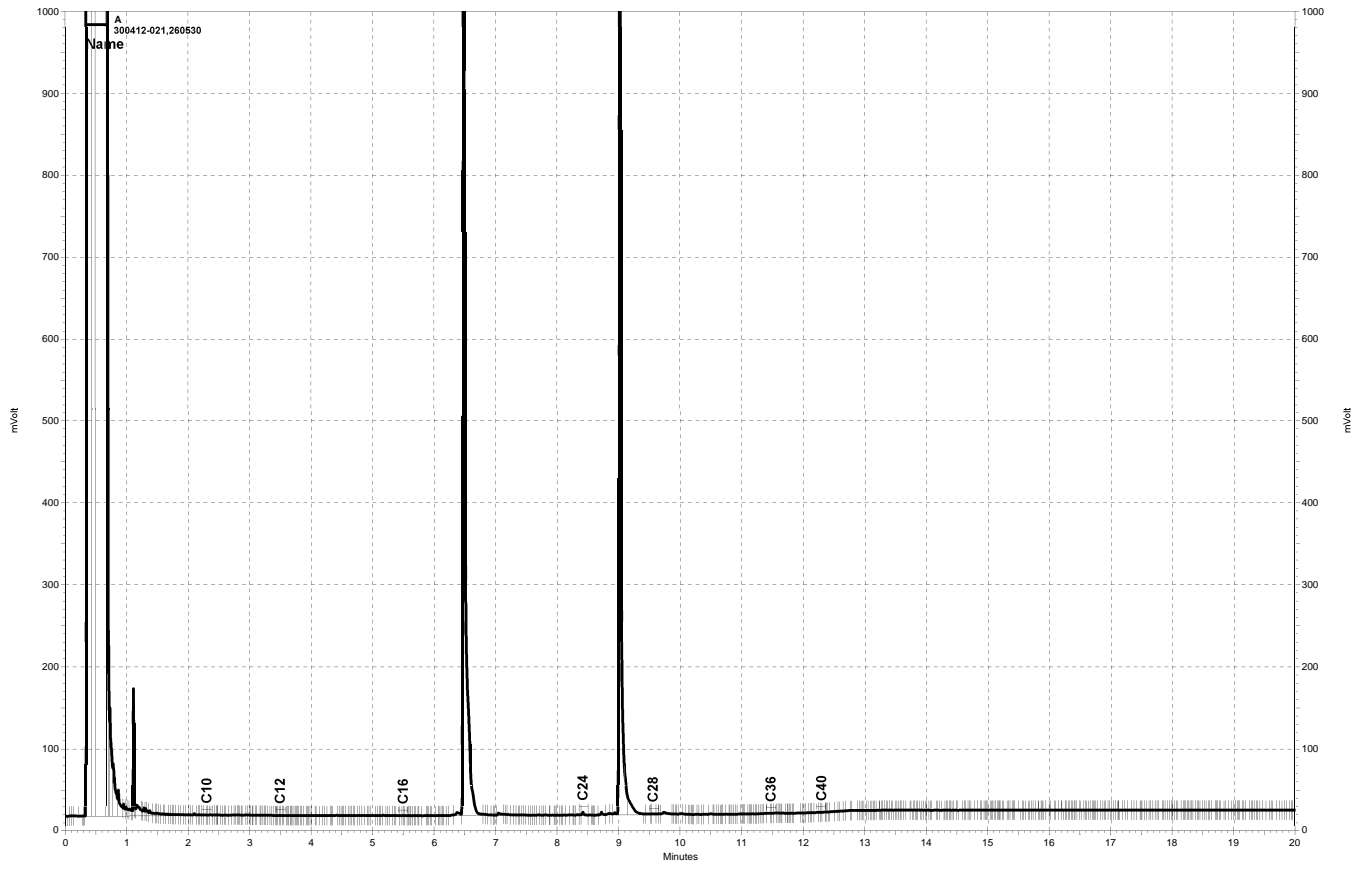
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\166a007, A



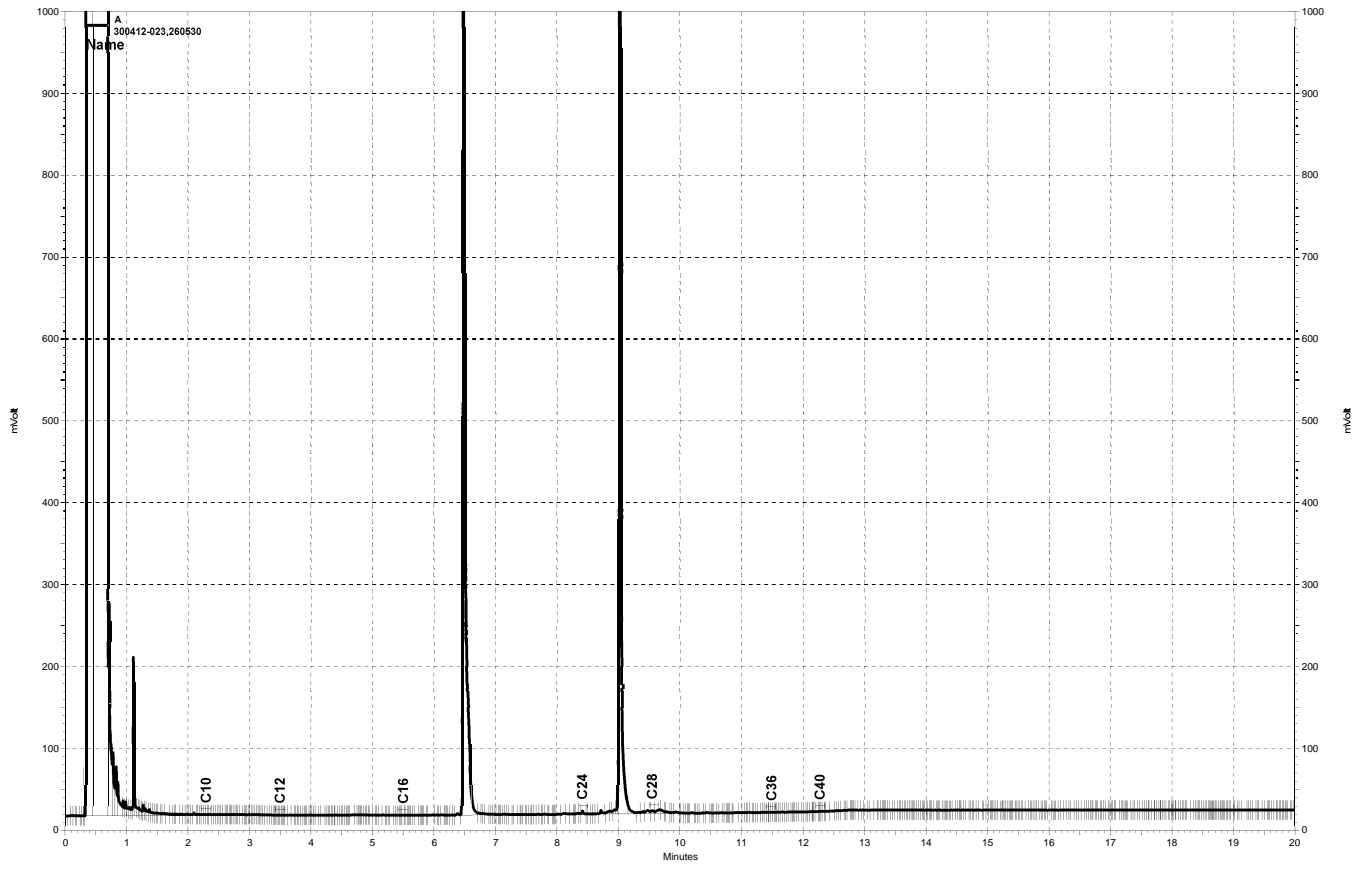
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\166a013, A



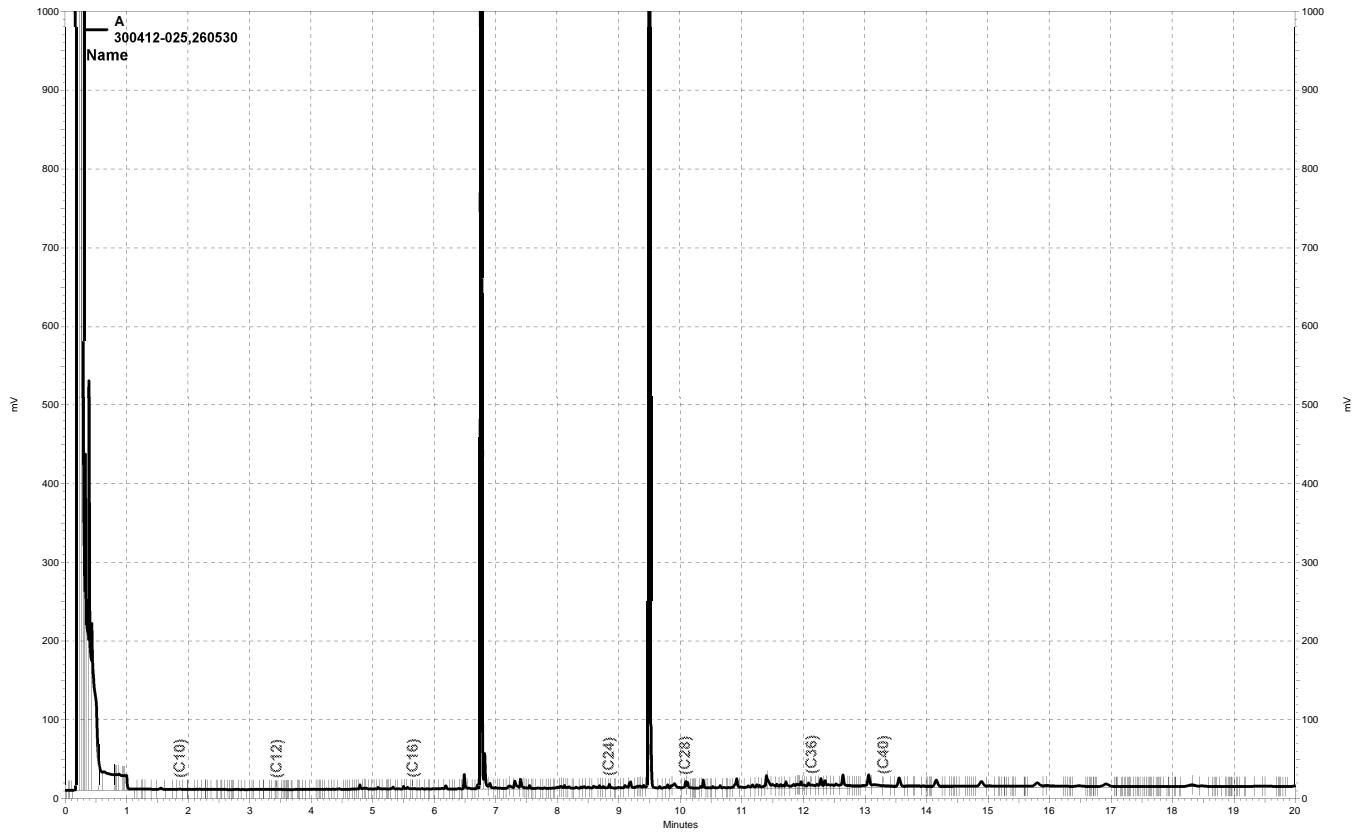
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\166a010, A



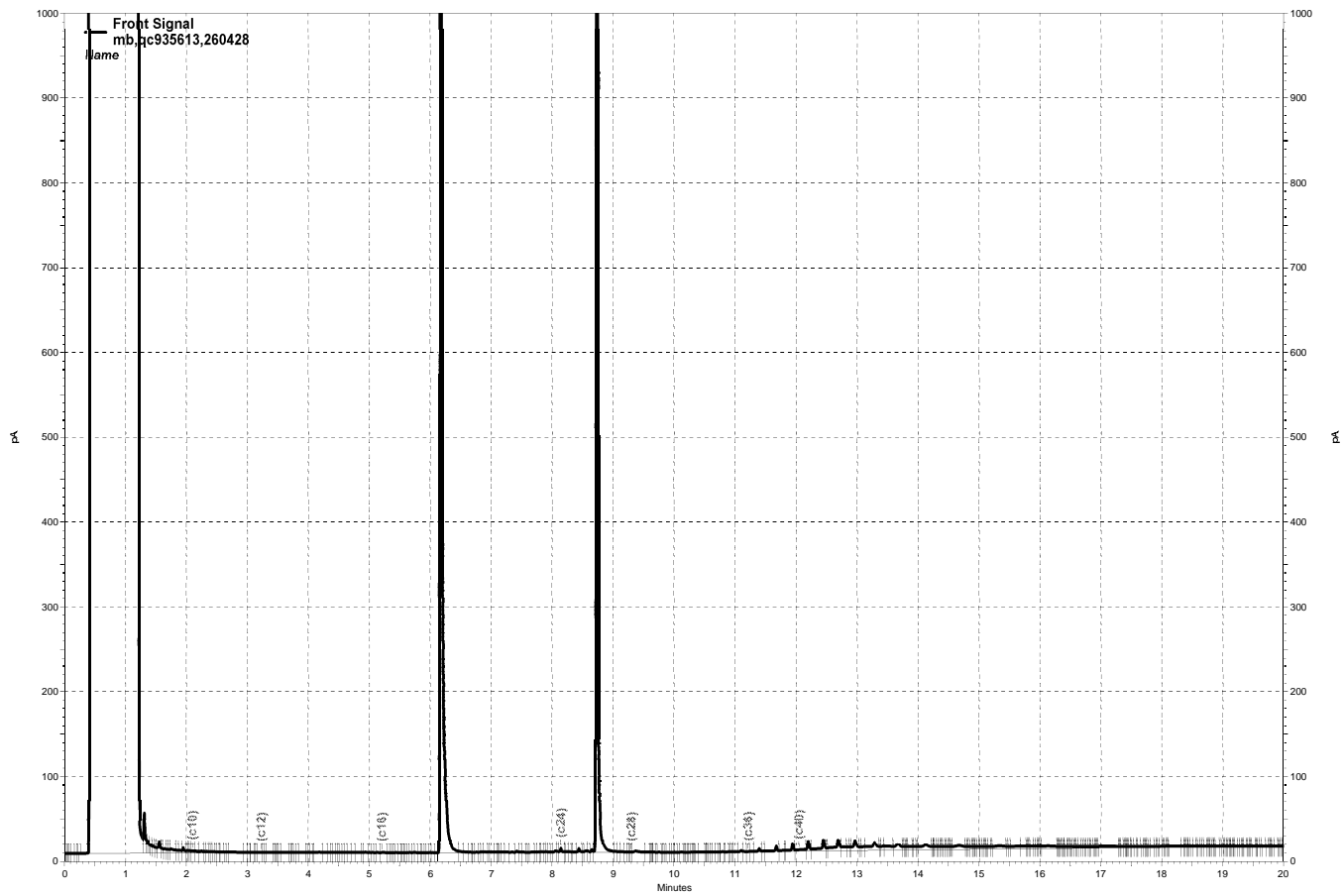
— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\166a011, A



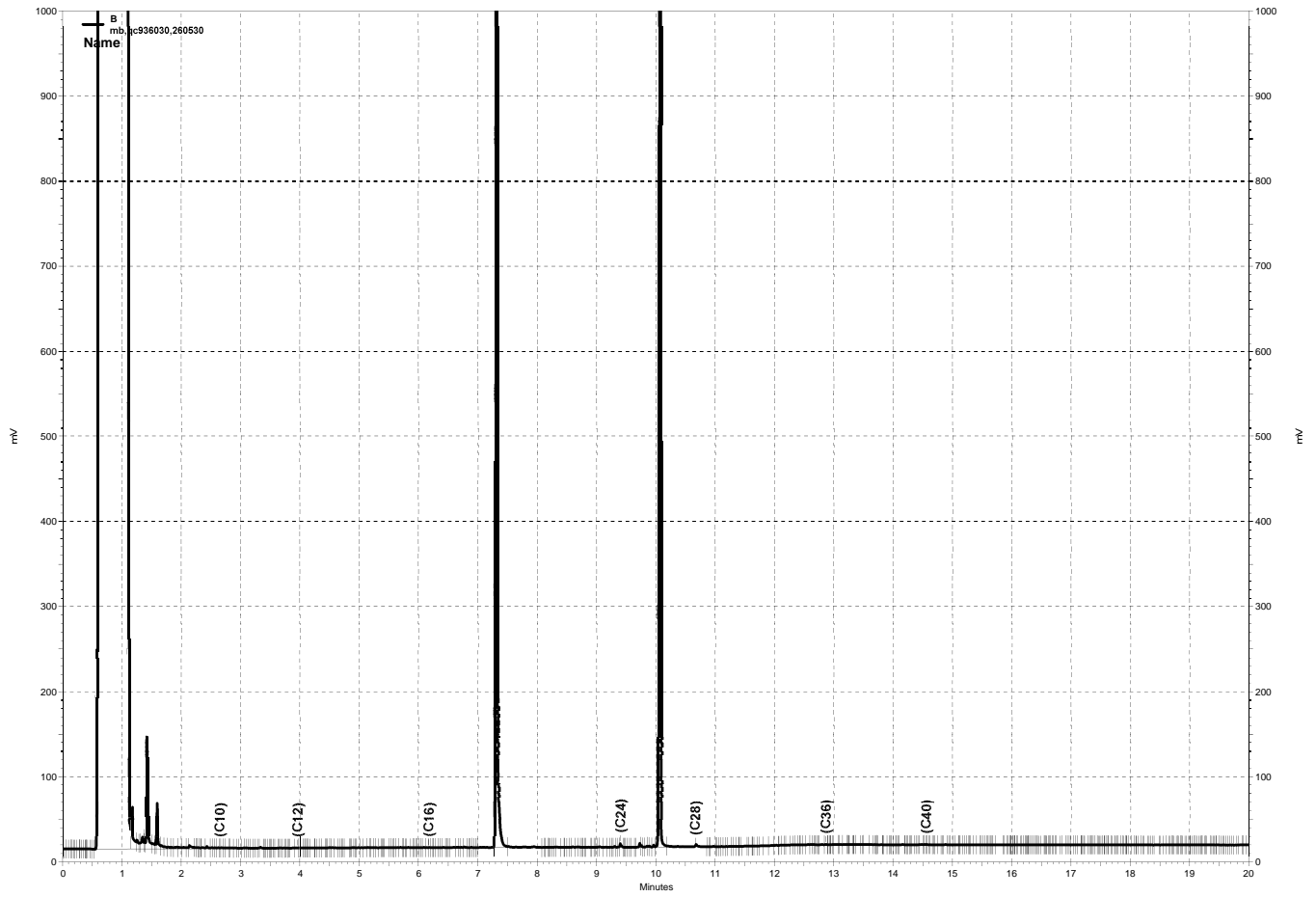
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\166a012, A



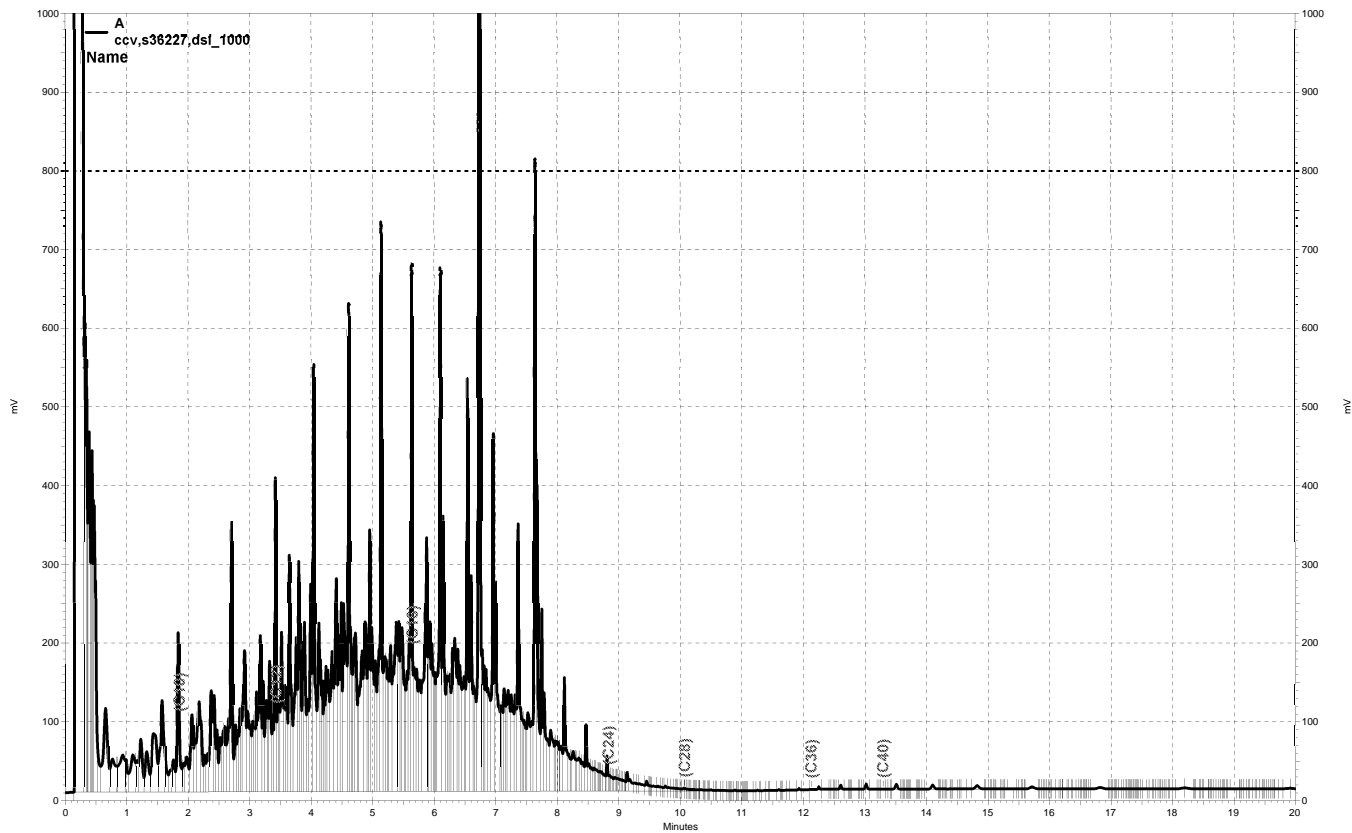
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a039, A



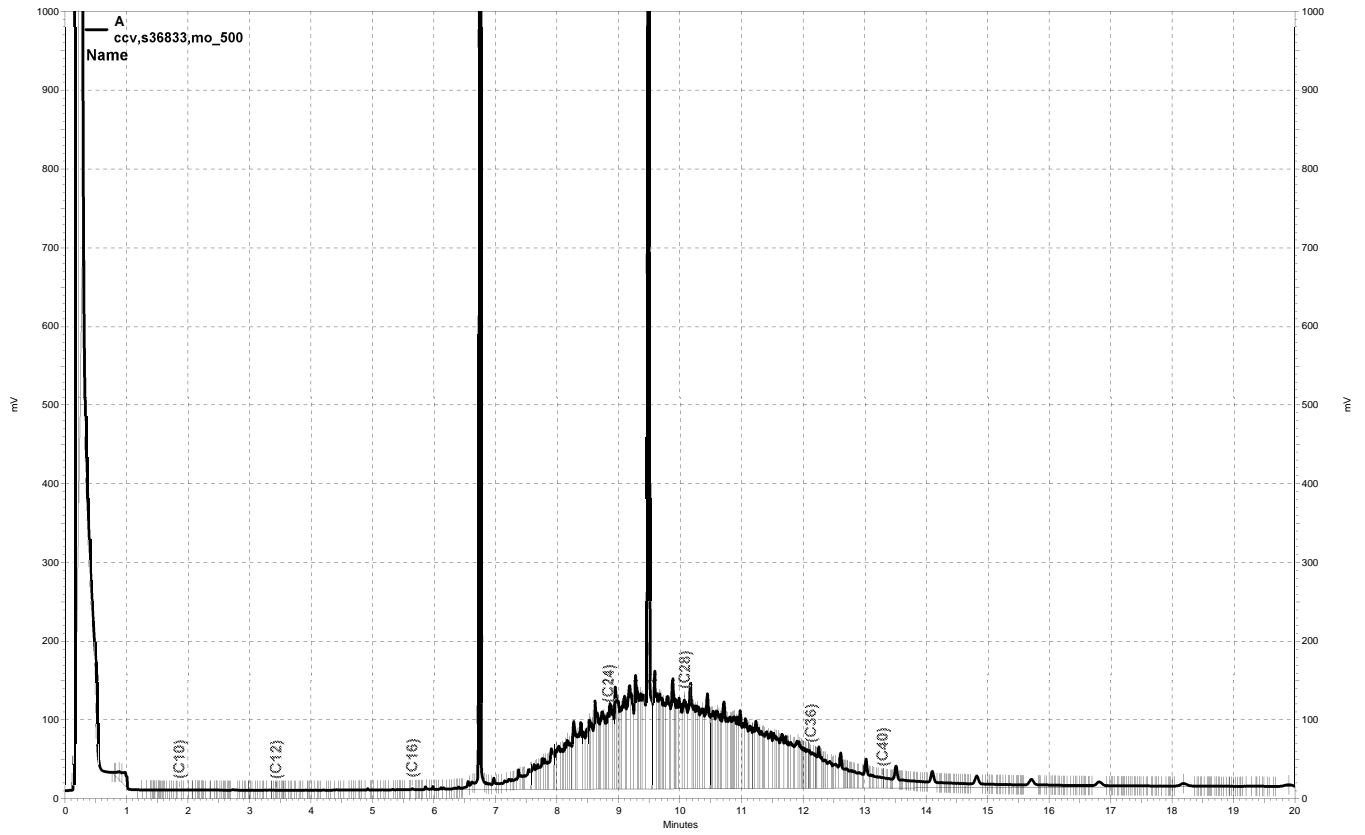
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\163a029.dat, Front Signal



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\166b005, B



— \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a037, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a038, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228163090001
 Units : mg/L

Name : HEXOTP_113
 Date : 24-APR-2018 17:47
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_058	228163090058	HEX OTP_5	24-APR-2018 17:47	S36499
L2	113_059	228163090059	HEX OTP_10	24-APR-2018 18:15	S36500
L3	113_060	228163090060	HEX OTP_25	24-APR-2018 18:43	S36501
L4	113_061	228163090061	HEX OTP_50	24-APR-2018 19:10	S36502
L5	113_062	228163090062	HEX OTP_100	24-APR-2018 19:38	S36503
L6	113_063	228163090063	HEX OTP_200	24-APR-2018 20:06	S36504

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	53564	53868	53293	52451	51731	53994	AVRG		1.88E-5		53150	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	5.0000	1	10.000	1	25.000	0	50.000	-1	100.00	-3	200.00	2

CB1 04/25/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300412 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178237902003
 Units : mg/L

Name : HEXOTP_165
 Date : 14-JUN-2018 20:26
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	165a013	178237902013	HEXOTP_5	14-JUN-2018 20:26	S36499
L2	165a014	178237902014	HEXOTP_10	14-JUN-2018 20:53	S36500
L3	165a015	178237902015	HEXOTP_25	14-JUN-2018 21:21	S36501
L4	165a016	178237902016	HEXOTP_50	14-JUN-2018 21:48	S36502
L5	165a017	178237902017	HEXOTP_100	14-JUN-2018 22:16	S36503
L6	165a018	178237902018	HEXOTP_200	14-JUN-2018 22:44	S36504

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	67256	70054	67812	66803	66618	66840	AVRG		1.48E-5		67564	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.0000	0	10.000	4	25.000	0	50.000	-1	100.00	-1	200.00	-1

CB1 06/15/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 06/15/18

Reviewer: EAH

Date: 06/15/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178237902001
 Units : mg/L

Name : DSL_165
 Date : 14-JUN-2018 23:40
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	165a020	178237902020	DSL_10	14-JUN-2018 23:40	S36610
L2	165a021	178237902021	DSL_100	15-JUN-2018 00:08	S36611
L3	165a022	178237902022	DSL_500	15-JUN-2018 00:36	S36613
L4	165a023	178237902023	DSL_1000	15-JUN-2018 01:04	S36615
L5	165a024	178237902024	DSL_5000	15-JUN-2018 01:31	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	54554	57021	59236	58840	56181	AVRG		1.75E-5		57167	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-5	100.00	0	500.00	4	1000.0	3	5000.0	-2

CB1 06/15/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 06/15/18

Reviewer: EAH

Date: 06/15/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300412 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178237902001

Name : DSL_165
Cal Date : 14-JUN-2018

ICV 178237902026 (165a026 15-JUN-2018) stds: S35844

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	472.0	mg/L	-6	15	

Analyst: CB1

Date: 06/15/18

Reviewer: EAH

Date: 06/15/18

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178237902002
 Units : mg/L

Name : MO_165
 Date : 15-JUN-2018 03:22
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	165a028	178237902028	MO_50	15-JUN-2018 03:22	S36946
L2	165a029	178237902029	MO_250	15-JUN-2018 03:50	S36948
L3	165a030	178237902030	MO_500	15-JUN-2018 04:18	S36949
L4	165a031	178237902031	MO_1000	15-JUN-2018 04:46	S36951
L5	165a032	178237902032	MO_2500	15-JUN-2018 05:13	S36926 (2X)
L6	165a033	178237902033	MO_5000	15-JUN-2018 05:41	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	37919	39557	38252	38537	36728	37146	AVRG		2.63E-5		38023	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	0	250.00	4	500.00	1	1000.0	1	2500.0	-3	5000.0	-2

CB1 06/15/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/15/18

Reviewer: EAH

Date: 06/15/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC26A
 Calnum : 868183255001
 Units : mg/L

Name : MO_127
 Date : 07-MAY-2018 12:57
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	127a014	868183255014	MO_50	07-MAY-2018 12:57	S36946
L2	127a015	868183255015	MO_250	07-MAY-2018 13:26	S36948
L3	127a016	868183255016	MO_500	07-MAY-2018 13:54	S36949
L4	127a017	868183255017	MO_1000	07-MAY-2018 14:22	S36951
L5	127a018	868183255018	MO_2500	07-MAY-2018 14:51	S36926 (2X)
L6	127a019	868183255019	MO_5000	07-MAY-2018 15:19	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	29625	31690	31850	31577	30606	31761	AVRG		3.21E-5		31185	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-5	250.00	2	500.00	2	1000.0	1	2500.0	-2	5000.0	2

CB1 05/08/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 05/08/18

Reviewer: EAH

Date: 05/08/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC26A
 Calnum : 868219240001
 Units : mg/L

Name : DSL_152
 Date : 01-JUN-2018 09:14
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	152a006	868219240006	DSL_10	01-JUN-2018 09:14	S36610
L2	152a007	868219240007	DSL_100	01-JUN-2018 09:43	S36611
L3	152a008	868219240008	DSL_500	01-JUN-2018 10:11	S36613
L4	152a009	868219240009	DSL_1000	01-JUN-2018 10:39	S36615
L5	152a010	868219240010	DSL_5000	01-JUN-2018 11:07	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	52217	44927	47992	48618	47262	AVRG		2.07E-5		48203	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	8	100.00	-7	500.00	0	1000.0	1	5000.0	-2

CB1 06/01/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 06/01/18

Reviewer: EAH

Date: 06/01/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300412 GCSV Soil
EPA 8015B

Inst : GC26A
Calnum : 868219240001

Name : DSL_152
Cal Date : 01-JUN-2018

ICV 868219240012 (152a012 01-JUN-2018) stds: S35164

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	480.3	mg/L	-4	15	

Analyst: CB1

Date: 06/01/18

Reviewer: EAH

Date: 06/01/18

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC26A
 Calnum : 868236461001
 Units : mg/L

Name : HEXOTP_164
 Date : 13-JUN-2018 19:26
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	164a025	868236461025	HEXOTP_5	13-JUN-2018 19:26	S36499
L2	164a026	868236461026	HEXOTP_10	13-JUN-2018 19:56	S36500
L3	164a027	868236461027	HEXOTP_25	13-JUN-2018 20:25	S36501
L4	164a028	868236461028	HEXOTP_50	13-JUN-2018 20:54	S36502
L5	164a029	868236461029	HEXOTP_100	13-JUN-2018 21:23	S36503
L6	164a030	868236461030	HEXOTP_200	13-JUN-2018 21:52	S36504

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	59226	59716	62861	60226	57645	57300	AVRG		1.68E-5		59496	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.0000	0	10.000	0	25.000	6	50.000	1	100.00	-3	200.00	-4

CB1 06/14/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 06/14/18

Reviewer: EAH

Date: 06/14/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC27A
 Calnum : 978075275001
 Units : mg/L

Name : HEXOTP_052
 Date : 21-FEB-2018 11:18
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	052a004	978075275004	HEX OTP_5	21-FEB-2018 11:18	S34657
L2	052a005	978075275005	HEX OTP_10	21-FEB-2018 11:43	S34659
L3	052a006	978075275006	HEX OTP_25	21-FEB-2018 12:08	S34661
L4	052a007	978075275007	HEX OTP_50	21-FEB-2018 12:33	S34663
L5	052a008	978075275008	HEX OTP_100	21-FEB-2018 12:59	S34664
L6	052a009	978075275009	HEX OTP_200	21-FEB-2018 13:24	S34665

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	526697	528936	536335	537130	539576	553234	AVRG		1.86E-6		536985	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.0000	-2	10.000	-1	25.000	0	50.000	0	100.00	0	200.00	3

WA1 02/22/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 02/22/18

Reviewer: EAH

Date: 02/22/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC27A
 Calnum : 978167410001
 Units : mg/L

Name : MO_116
 Date : 26-APR-2018 14:30
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	116a013	978167410013	MO_50	26-APR-2018 14:30	S34924
L2	116a014	978167410014	MO_250	26-APR-2018 14:56	S34925
L3	116a015	978167410015	MO_500	26-APR-2018 15:21	S34926
L4	116a016	978167410016	MO_1000	26-APR-2018 15:46	S34927
L5	116a019	978167410019	MO_2500	26-APR-2018 17:01	S34923 (2X)
L6	116a020	978167410020	MO_5000	26-APR-2018 17:26	S34923

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	277005	319984	324906	337867	337284	329366	AVRG		3.11E-6		321069	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-14	250.00	0	500.00	1	1000.0	5	2500.0	5	5000.0	3

WA1 04/27/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 04/27/18

Reviewer: EAH

Date: 04/27/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC27A
 Calnum : 978168840001
 Units : mg/L

Name : DSL_117
 Date : 27-APR-2018 11:21
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	117a006	978168840006	DSL_10	27-APR-2018 11:21	S36610
L2	117a007	978168840007	DSL_100	27-APR-2018 11:46	S36611
L3	117a008	978168840008	DSL_500	27-APR-2018 12:11	S36613
L4	117a009	978168840009	DSL_1000	27-APR-2018 12:36	S36615
L5	117a010	978168840010	DSL_5000	27-APR-2018 13:01	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Diesel C10-C24	526583	461278	471305	470589	471567	AVRG		2.08E-6		480265	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	10	100.00	-4	500.00	-2	1000.0	-2	5000.0	-2

WA1 04/27/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 04/27/18

Reviewer: EAH

Date: 04/27/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300412 GCSV Soil
EPA 8015B

Inst : GC27A
Calnum : 978168840001

Name : DSL_117
Cal Date : 27-APR-2018

ICV 978168840012 (117a012 27-APR-2018) stds: S35164

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	476.1	mg/L	-5	15	

Analyst: WA1

Date: 04/27/18 *

Reviewer: EAH

Date: 04/27/18 *

ENTHALPY INITIAL CALIBRATION FOR 300412 GCSV Soil: EPA 8015B

Inst : GC27A
 Calnum : 978235089001
 Units : mg/L

Name : HEXOTP_163
 Date : 14-JUN-2018 03:28
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	163a092	978235089092	HEX OTP_5	14-JUN-2018 03:28	S36499
L2	163a093	978235089093	HEX OTP_10	14-JUN-2018 03:54	S36500
L3	163a094	978235089094	HEX OTP_25	14-JUN-2018 04:19	S36501
L4	163a095	978235089095	HEX OTP_50	14-JUN-2018 04:44	S36502
L5	163a096	978235089096	HEX OTP_100	14-JUN-2018 05:10	S36503
L6	163a097	978235089097	HEX OTP_200	14-JUN-2018 05:35	S36504

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	540827	564698	573092	576254	579271	592138	AVRG		1.75E-6		571047	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.0000	-5	10.000	-1	25.000	0	50.000	1	100.00	1	200.00	4

CB1 06/14/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 06/14/18

Reviewer: EAH

Date: 06/14/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228236556012 File : 164_012 Time : 13-JUN-2018 12:23
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	41667	1000	925.9	mg/L	-7	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	52819	50.00	49.69	mg/L	-1	15	

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/14/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228236556013 File : 164_013 Time : 13-JUN-2018 12:52
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	28840	500.0	485.3	mg/L	-3	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	50119	50.00	47.15	mg/L	-6	15	

WA1 06/13/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/13/18 Reviewer: EAH Date: 06/14/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228236556031 File : 164_031 Time : 13-JUN-2018 23:22
 Standards: S36757

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	42777	500.0	475.3	mg/L	-5	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	52907	50.00	49.77	mg/L	0	15	

CB1 06/14/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/14/18 Reviewer: EAH Date: 06/14/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228239402003 File : 166_003 Time : 15-JUN-2018 06:59
 Standards: S36757

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	44034	500.0	489.3	mg/L	-2	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	54348	50.00	51.13	mg/L	2	15	

CB1 06/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228239402004 File : 166_004 Time : 15-JUN-2018 07:28
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	29012	500.0	488.2	mg/L	-2	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	51742	50.00	48.67	mg/L	-3	15	

CB1 06/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228239402012 File : 166_012 Time : 15-JUN-2018 15:59
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	40755	1000	905.7	mg/L	-9	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	51884	50.00	48.81	mg/L	-2	15	

WA1 06/15/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228239402013 File : 166_013 Time : 15-JUN-2018 16:27
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	27997	500.0	471.1	mg/L	-6	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	50499	50.00	47.51	mg/L	-5	15	

WA1 06/15/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 178237902037 File : 165a037 Time : 15-JUN-2018 07:33
 Standards: S36227

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178237902001	14-JUN-2018	57167	54688	1000	956.6	mg/L	-4	15	
o-Terphenyl	178237902003	14-JUN-2018	67564	66720	50.00	49.38	mg/L	-1	15	

CB1 06/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178237902038 File : 165a038 Time : 15-JUN-2018 08:01
 Standards: S36833

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	178237902002	15-JUN-2018	38023	37073	500.0	487.5	mg/L	-2	15	
o-Terphenyl	178237902003	14-JUN-2018	67564	62621	50.00	46.34	mg/L	-7	15	

CB1 06/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
 Seqnum : 868239402004 File : 166a004 Time : 15-JUN-2018 07:26
 Standards: S36833

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	868183255001	07-MAY-2018	31185	33167	500.0	531.8	mg/L	6	15	
o-Terphenyl	868236461001	13-JUN-2018	59496	54680	50.00	45.95	mg/L	-8	15	

CB1 06/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 868239402015 File : 166a015 Time : 15-JUN-2018 16:20
 Standards: S36227

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868219240001	01-JUN-2018	48203	49412	1000	1025	mg/L	3	15	
o-Terphenyl	868236461001	13-JUN-2018	59496	60590	50.00	50.92	mg/L	2	15	

WA1 06/15/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
 Seqnum : 868239402016 File : 166a016 Time : 15-JUN-2018 16:48
 Standards: S36833

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	868183255001	07-MAY-2018	31185	31565	500.0	506.1	mg/L	1	15	
o-Terphenyl	868236461001	13-JUN-2018	59496	57810	50.00	48.58	mg/L	-3	15	

WA1 06/15/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : DSL_500 IDF : 1.0
 Seqnum : 978235089026 File : 163a026 Time : 12-JUN-2018 19:14
 Standards: S36757

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978168840001	27-APR-2018	480265	489601	500.0	509.7	mg/L	2	15	
o-Terphenyl	978075275001	21-FEB-2018	536985	606039	50.00	56.43	mg/L	13	15	

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978235089027 File : 163a027 Time : 12-JUN-2018 19:39
 Standards: S36833

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978167410001	26-APR-2018	321069	327695	500.0	510.3	mg/L	2	15	
o-Terphenyl	978075275001	21-FEB-2018	536985	585216	50.00	54.49	mg/L	9	15	

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 978235089043 File : 163a043 Time : 13-JUN-2018 02:24
 Standards: S36227

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978168840001	27-APR-2018	480265	493679	1000	1028	mg/L	3	15	
o-Terphenyl	978075275001	21-FEB-2018	536985	627680	50.00	58.44	mg/L	17	15	c+

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978235089044 File : 163a044 Time : 13-JUN-2018 02:49
 Standards: S36833

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978167410001	26-APR-2018	321069	324946	500.0	506.0	mg/L	1	15	
o-Terphenyl	978075275001	21-FEB-2018	536985	587917	50.00	54.74	mg/L	9	15	

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978239394004 File : 166a004 Time : 15-JUN-2018 07:10
 Standards: S36833

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978167410001	26-APR-2018	321069	304795	500.0	474.7	mg/L	-5	15	
o-Terphenyl	978235089001	14-JUN-2018	571047	568762	50.00	49.80	mg/L	0	15	

CB1 06/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300412 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : DSL_500 IDF : 1.0
 Seqnum : 978239394012 File : 166a012 Time : 15-JUN-2018 17:01
 Standards: S36757

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978168840001	27-APR-2018	480265	483549	500.0	503.4	mg/L	1	15	
o-Terphenyl	978235089001	14-JUN-2018	571047	564857	50.00	49.46	mg/L	-1	15	

WA1 06/15/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178237902

Instrument : GC17A
 Method : EPA 8015B

Begun : 06/14/18 05:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	165a001	IB				06/14/18 05:02	1.0	
002	165a002	X	CMARKER			06/14/18 05:29	1.0	1
003	165a003	CCV	DSL_500			06/14/18 05:57	1.0	2
004	165a004	IB				06/14/18 06:45	1.0	
005	165a005	XCMARKER	C8-C40			06/14/18 07:13	1.0	1
006	165a006	CCV	DSL_500			06/14/18 07:42	1.0	2
007	165a007	CCV	MO_500			06/14/18 08:10	1.0	3
008	165a008	CCV	MO_500			06/14/18 08:53	1.0	3
009	165a009	CCV	MO_500			06/14/18 09:21	1.0	3
010	165a010	IB				06/14/18 17:28	1.0	
011	165a011	IB				06/14/18 19:31	1.0	
012	165a012	IB	CALIB			06/14/18 19:59	1.0	
013	165a013	ICAL	HEXOTP_5			06/14/18 20:26	1.0	4
014	165a014	ICAL	HEXOTP_10			06/14/18 20:53	1.0	5
015	165a015	ICAL	HEXOTP_25			06/14/18 21:21	1.0	6
016	165a016	ICAL	HEXOTP_50			06/14/18 21:48	1.0	7
017	165a017	ICAL	HEXOTP_100			06/14/18 22:16	1.0	8
018	165a018	ICAL	HEXOTP_200			06/14/18 22:44	1.0	9
019	165a019	IB	CALIB			06/14/18 23:12	1.0	
020	165a020	ICAL	DSL_10			06/14/18 23:40	1.0	10
021	165a021	ICAL	DSL_100			06/15/18 00:08	1.0	11
022	165a022	ICAL	DSL_500			06/15/18 00:36	1.0	12
023	165a023	ICAL	DSL_1000			06/15/18 01:04	1.0	13
024	165a024	ICAL	DSL_5000			06/15/18 01:31	1.0	14
025	165a025	IB	CALIB			06/15/18 01:59	1.0	
026	165a026	ICV	DSL_500			06/15/18 02:27	1.0	15
027	165a027	IB	CALIB			06/15/18 02:55	1.0	
028	165a028	ICAL	MO_50			06/15/18 03:22	1.0	16
029	165a029	ICAL	MO_250			06/15/18 03:50	1.0	17
030	165a030	ICAL	MO_500			06/15/18 04:18	1.0	18
031	165a031	ICAL	MO_1000			06/15/18 04:46	1.0	19
032	165a032	ICAL	MO_2500			06/15/18 05:13	1.0	20
033	165a033	ICAL	MO_5000			06/15/18 05:41	1.0	20
034	165a034	IB	CALIB			06/15/18 06:09	1.0	
035	165a035	CMARKER	C8-C40			06/15/18 06:37	1.0	1
036	165a036	IB	CALIB			06/15/18 07:05	1.0	
037	165a037	CCV	DSL_1000			06/15/18 07:33	1.0	21
038	165a038	CCV	MO_500			06/15/18 08:01	1.0	3
039	165a039	SAMPLE	300412-025	Soil	260530	06/15/18 12:09	1.0	
040	165a040	SAMPLE	300453-001	Soil	260530	06/15/18 12:37	1.0	
041	165a041	SAMPLE	300453-002	Soil	260530	06/15/18 13:04	1.0	
042	165a042	SAMPLE	300453-003	Soil	260530	06/15/18 13:32	1.0	
043	165a043	SAMPLE	300453-004	Soil	260530	06/15/18 14:00	1.0	
044	165a044	SAMPLE	300453-005	Soil	260530	06/15/18 14:27	1.0	
045	165a045	IB				06/15/18 15:58	1.0	
046	165a046	CCV	DSL_250			06/15/18 16:25	1.0	22
047	165a047	CCV	MO_500			06/15/18 16:53	1.0	3
048	165a048	X	CMARKER			06/15/18 17:21	1.0	1
049	165a049	SAMPLE	300453-006	Soil	260555	06/15/18 18:16	1.0	
050	165a050	SAMPLE	300453-007	Soil	260555	06/15/18 18:44	1.0	
051	165a051	SAMPLE	300453-008	Soil	260555	06/15/18 19:12	1.0	
052	165a052	SAMPLE	300453-009	Soil	260555	06/15/18 19:39	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	113_001	IB					04/23/18 06:10	1.0	
002	113_002	IB					04/23/18 06:38	1.0	
003	113_003	X	CMARKER				04/23/18 07:06	1.0	1
004	113_004	CCV	DSL_500				04/23/18 07:34	1.0	2
005	113_005	CCV	MO_500				04/23/18 08:35	1.0	3
006	113_006	CCV	DSL_500				04/23/18 09:02	1.0	2
007	113_007	IB					04/23/18 12:40	1.0	
008	113_008	X	CMARKER				04/23/18 13:07	1.0	1
009	113_009	CCV	DSL_500				04/23/18 13:35	1.0	2
010	113_010	CCV	MO_500				04/23/18 14:03	1.0	3
012	113_012	IB					04/23/18 15:27	1.0	
013	113_013	SAMPLE	299115-001		Soil	258772	04/23/18 16:57	1.0	
014	113_014	SAMPLE	299115-002		Soil	258772	04/23/18 17:25	1.0	
015	113_015	SAMPLE	299115-003		Soil	258772	04/23/18 17:53	1.0	
016	113_016	SAMPLE	299115-004		Soil	258772	04/23/18 18:20	1.0	
017	113_017	SAMPLE	299056-001		Soil	258772	04/23/18 18:48	2.0	
018	113_018	IB					04/23/18 19:16	1.0	
019	113_019	SAMPLE	299117-001		Soil	258772	04/23/18 19:44	1.0	
020	113_020	SAMPLE	299117-002		Soil	258772	04/23/18 20:11	1.0	
021	113_021	MS	QC929007	S	Soil	258726	04/23/18 20:39	1.0	
022	113_022	MSD	QC929008	S	Soil	258726	04/23/18 21:07	1.0	
023	113_023	IB					04/23/18 21:35	1.0	
024	113_024	CCV	DSL_250				04/23/18 22:03	1.0	4
025	113_025	CCV	MO_500				04/23/18 22:31	1.0	3
026	113_026	X	CMARKER				04/23/18 22:59	1.0	1
027	113_027	BLANK	QC929171		Soil	258772	04/23/18 23:27	1.0	
028	113_028	LCS	QC929172		Soil	258772	04/23/18 23:55	1.0	
029	113_029	MSS	299056-002		Soil	258772	04/24/18 00:23	1.0	
030	113_030	MS	QC929173		Soil	258772	04/24/18 00:51	1.0	
031	113_031	MSD	QC929174		Soil	258772	04/24/18 01:19	1.0	
032	113_032	SAMPLE	299118-001		Soil	258772	04/24/18 01:47	1.0	
033	113_033	SAMPLE	299119-001		Soil	258772	04/24/18 02:14	1.0	
034	113_034	IB					04/24/18 02:42	1.0	
035	113_035	SAMPLE	299126-001		Soil	258772	04/24/18 03:10	1.0	
036	113_036	SAMPLE	299126-002		Soil	258772	04/24/18 03:38	1.0	
037	113_037	SAMPLE	299116-001		Soil	258772	04/24/18 04:06	1.0	
038	113_038	SAMPLE	299116-002		Soil	258772	04/24/18 04:34	1.0	
039	113_039	IB					04/24/18 05:02	1.0	
040	113_040	CCV	DSL_500				04/24/18 05:30	1.0	2
041	113_041	CCV	MO_500				04/24/18 05:58	1.0	3
042	113_042	X	CMARKER				04/24/18 06:26	1.0	1
043	113_043	SAMPLE	299056-005		Soil	258786	04/24/18 07:10	1.0	
044	113_044	SAMPLE	299056-006		Soil	258786	04/24/18 07:38	1.0	
045	113_045	SAMPLE	299055-001		Soil	258786	04/24/18 08:10	1.0	
046	113_046	SAMPLE	299055-002		Soil	258786	04/24/18 08:38	1.0	
047	113_047	SAMPLE	299055-004		Soil	258786	04/24/18 09:06	1.0	
048	113_048	SAMPLE	299055-005		Soil	258786	04/24/18 09:34	1.0	
049	113_049	SAMPLE	299055-006		Soil	258786	04/24/18 10:02	1.0	
050	113_050	SAMPLE	299055-007		Soil	258786	04/24/18 10:30	1.0	
051	113_051	CCV	DSL_1000				04/24/18 10:58	1.0	5
052	113_052	CCV	MO_500				04/24/18 11:26	1.0	3
053	113_053	X	CMARKER				04/24/18 11:54	1.0	1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B Begun : 04/23/18 06:10
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	113_054	CCV	DSL_1000				04/24/18 12:22	1.0	5
055	113_055	CCV	DSL_1000				04/24/18 12:50	1.0	5
056	113_056	IB					04/24/18 16:52	1.0	
057	113_057	IB	CALIB				04/24/18 17:20	1.0	
058	113_058	ICAL	HEX OTP_5				04/24/18 17:47	1.0	6
059	113_059	ICAL	HEX OTP_10				04/24/18 18:15	1.0	7
060	113_060	ICAL	HEX OTP_25				04/24/18 18:43	1.0	8
061	113_061	ICAL	HEX OTP_50				04/24/18 19:10	1.0	9
062	113_062	ICAL	HEX OTP_100				04/24/18 19:38	1.0	10
063	113_063	ICAL	HEX OTP_200				04/24/18 20:06	1.0	11
064	113_064	IB	CALIB				04/24/18 20:33	1.0	
065	113_065	ICAL	DSL_10				04/24/18 21:01	1.0	12
066	113_066	ICAL	DSL_100				04/24/18 21:29	1.0	13
067	113_067	ICAL	DSL_500				04/24/18 21:57	1.0	14
068	113_068	ICAL	DSL_1000				04/24/18 22:25	1.0	15
069	113_069	ICAL	DSL_5000				04/24/18 22:53	1.0	16
070	113_070	IB	CALIB				04/24/18 23:21	1.0	
071	113_071	ICV	DSL_500				04/24/18 23:49	1.0	17
072	113_072	IB	CALIB				04/25/18 00:17	1.0	
073	113_073	ICAL	MO_50				04/25/18 00:45	1.0	18
074	113_074	ICAL	MO_250				04/25/18 01:13	1.0	19
075	113_075	ICAL	MO_500				04/25/18 01:41	1.0	20
076	113_076	ICAL	MO_1000				04/25/18 02:09	1.0	21
077	113_077	ICAL	MO_2500				04/25/18 02:37	1.0	22
078	113_078	ICAL	MO_5000				04/25/18 03:05	1.0	22
079	113_079	IB	CALIB				04/25/18 03:33	1.0	
080	113_080	CMARKER	C8-C50				04/25/18 04:01	1.0	23
081	113_081	IB	CALIB				04/25/18 04:29	1.0	

CB1 04/25/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 81.

CB1 04/23/18 : Hardware failure (bent syringe) for run at position 4, RR DSL opening CCV.

WA1 04/23/18 : Position 11 was mis-injected.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S35149 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S36610 13=S36611 14=S36613 15=S36615 16=S36609 17=S35164 18=S34924 19=S34925 20=S34926 21=S34927 22=S34923
 23=S35483

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228223554

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/04/18 05:54
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	155_001	IB				06/04/18 05:54	1.0	
002	155_002	CCV	DSL_500			06/04/18 06:22	1.0	1
003	155_003	CCV	MO_500			06/04/18 06:51	1.0	2
004	155_004	X	CMARKER			06/04/18 07:19	1.0	3
005	155_005	CCV	JET_250			06/04/18 08:37	1.0	4
006	155_006	BLANK	QC934363	Water	260120	06/04/18 11:26	1.0	
007	155_007	BS	QC934364	Water	260120	06/04/18 11:54	1.0	
008	155_008	BSD	QC934365	Water	260120	06/04/18 12:23	1.0	
009	155_009	SAMPLE	300258-001	Water	260120	06/04/18 12:51	1.0	
010	155_010	CCV	DSL_1000			06/04/18 13:19	1.0	5
011	155_011	CCV	MO_500			06/04/18 14:54	1.0	2
012	155_012	CCV	JET_250			06/04/18 15:23	1.0	4
013	155_013	X	CMARKER			06/04/18 15:51	1.0	3
014	155_014	IB				06/04/18 16:20	1.0	
015	155_015	IB	CALIB			06/04/18 16:48	1.0	
016	155_016	ICAL	MO_50			06/04/18 17:17	1.0	6
017	155_017	ICAL	MO_250			06/04/18 17:45	1.0	7
018	155_018	ICAL	MO_500			06/04/18 18:14	1.0	8
019	155_019	ICAL	MO_1000			06/04/18 18:43	1.0	9
020	155_020	ICAL	MO_2500			06/04/18 19:11	1.0	10
021	155_021	ICAL	MO_5000			06/04/18 19:39	1.0	10
022	155_022	IB	CALIB			06/04/18 20:08	1.0	
023	155_023	CMARKER	C8-C40			06/04/18 20:36	1.0	3
024	155_024	IB	CALIB			06/04/18 21:04	1.0	

CB1 06/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228236556

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/13/18 06:36
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	164_001	IB					06/13/18 06:36	1.0	
002	164_002	X	CMARKER				06/13/18 07:05	1.0	1
003	164_003	CCV	DSL_500				06/13/18 07:33	1.0	2
004	164_004	CCV	MO_500				06/13/18 08:02	1.0	3
005	164_005	CCV	BUNK_500				06/13/18 08:31	1.0	4
006	164_006	BLANK	QC935201	S	Soil	260328	06/13/18 09:05	1.0	
007	164_007	BS	QC935202	S	Soil	260328	06/13/18 09:33	1.0	
008	164_008	BSD	QC935203	S	Soil	260328	06/13/18 10:02	1.0	
009	164_009	SAMPLE	300453-013		Water	260379	06/13/18 10:51	1.0	
010	164_010	SAMPLE	300453-014		Water	260379	06/13/18 11:20	1.0	
011	164_011	SAMPLE	300453-025		Water	260379	06/13/18 11:49	1.0	
012	164_012	CCV	DSL_1000				06/13/18 12:23	1.0	5
013	164_013	CCV	MO_500				06/13/18 12:52	1.0	3
014	164_014	CCV	BUNK_500				06/13/18 13:21	1.0	4
015	164_015	X	CMARKER				06/13/18 13:50	1.0	1
016	164_016	CHECK	DCM TANK				06/13/18 14:18	1.0	
017	164_017	BLANK	QC935723		Soil	260454	06/13/18 16:37	1.0	
018	164_018	LCS	QC935724		Soil	260454	06/13/18 17:06	1.0	
019	164_019	MSS	300412-007		Soil	260454	06/13/18 17:35	1.0	
020	164_020	MS	QC935725		Soil	260454	06/13/18 18:04	1.0	
021	164_021	MSD	QC935726		Soil	260454	06/13/18 18:33	1.0	
022	164_022	SAMPLE	300463-001		Soil	260454	06/13/18 19:02	1.0	
023	164_023	SAMPLE	300463-002		Soil	260454	06/13/18 19:32	1.0	
024	164_024	IB					06/13/18 20:01	1.0	
025	164_025	SAMPLE	300412-005		Soil	260454	06/13/18 20:29	1.0	
026	164_026	SAMPLE	300412-006		Soil	260454	06/13/18 20:58	1.0	
027	164_027	SAMPLE	300412-008		Soil	260454	06/13/18 21:27	1.0	
028	164_028	SAMPLE	300412-009		Soil	260454	06/13/18 21:56	1.0	
029	164_029	SAMPLE	300559-003		Soil	260454	06/13/18 22:24	1.0	
030	164_030	IB					06/13/18 22:53	1.0	
031	164_031	CCV	DSL_500				06/13/18 23:22	1.0	2
032	164_032	CCV	MO_500				06/13/18 23:51	1.0	3
033	164_033	X	CMARKER				06/14/18 00:20	1.0	1
034	164_034	BLANK	QC935723	S	Soil	260454	06/14/18 00:48	1.0	
035	164_035	LCS	QC935724	S	Soil	260454	06/14/18 01:17	1.0	
036	164_036	SAMPLE	300497-013	S	Soil	260454	06/14/18 01:46	1.0	
037	164_037	SAMPLE	300497-005	S	Soil	260454	06/14/18 02:14	1.0	
038	164_038	SAMPLE	300497-008	S	Soil	260454	06/14/18 02:43	1.0	
039	164_039	SAMPLE	300497-012	S	Soil	260454	06/14/18 03:12	1.0	
040	164_040	SAMPLE	300497-018	S	Soil	260454	06/14/18 03:40	1.0	
041	164_041	IB					06/14/18 04:09	1.0	
042	164_042	SAMPLE	300491-005	S	Soil	260454	06/14/18 04:38	1.0	
043	164_043	SAMPLE	300497-027	S	Soil	260454	06/14/18 05:06	1.0	
044	164_044	SAMPLE	300497-030	S	Soil	260454	06/14/18 05:35	1.0	
045	164_045	SAMPLE	300497-019	S	Soil	260454	06/14/18 06:04	1.0	
046	164_046	SAMPLE	300497-023	S	Soil	260454	06/14/18 06:33	1.0	
047	164_047	IB					06/14/18 07:02	1.0	
048	164_048	CCV	DSL_1000				06/14/18 07:31	1.0	5
049	164_049	CCV	MO_500				06/14/18 08:00	1.0	3
050	164_050	X	CMARKER				06/14/18 08:29	1.0	1
051	164_051	BLANK	QC935864		Soil	260485	06/14/18 09:31	1.0	
052	164_052	BS	QC935865		Soil	260485	06/14/18 09:59	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228236556

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/13/18 06:36
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	164_053	BSD	QC935866		Soil	260485	06/14/18 10:28	1.0	
054	164_054	SAMPLE	300629-005		Soil	260485	06/14/18 10:56	1.0	
055	164_055	IB					06/14/18 11:24	1.0	
056	164_056	CCV	DSL_250				06/14/18 11:52	1.0	6
057	164_057	CCV	MO_500				06/14/18 12:21	1.0	3
058	164_058	X	CMARKER				06/14/18 12:49	1.0	1
059	164_059	BLANK	QC935864	S	Soil	260485	06/14/18 15:23	1.0	
060	164_060	BS	QC935865	S	Soil	260485	06/14/18 15:51	1.0	
061	164_061	BSD	QC935866	S	Soil	260485	06/14/18 16:19	1.0	
062	164_062	SAMPLE	300542-005	S	Soil	260485	06/14/18 16:48	1.0	
063	164_063	SAMPLE	300542-010	S	Soil	260485	06/14/18 17:16	1.0	
064	164_064	SAMPLE	300542-015	S	Soil	260485	06/14/18 17:45	2.0	
065	164_065	SAMPLE	300542-018	S	Soil	260485	06/14/18 18:13	1.0	
066	164_066	IB					06/14/18 18:41	1.0	
067	164_067	CCV	DSL_500				06/14/18 19:10	1.0	2
068	164_068	CCV	MO_500				06/14/18 19:38	1.0	3
069	164_069	X	CMARKER				06/14/18 20:07	1.0	1
070	164_070	CHECK	TANK				06/14/18 20:35	1.0	

CB1 06/14/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 58.

WA1 06/14/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 59 through 69.

CB1 06/15/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 70 through 70.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228239402

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/15/18 06:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	166_001	IB				06/15/18 06:02	1.0	
002	166_002	X	CMARKER			06/15/18 06:30	1.0	1
003	166_003	CCV	DSL_500			06/15/18 06:59	1.0	2
004	166_004	CCV	MO_500			06/15/18 07:28	1.0	3
005	166_005	BLANK	QC936030	Soil	260530	06/15/18 12:09	1.0	
006	166_006	LCS	QC936031	Soil	260530	06/15/18 12:37	1.0	
007	166_007	MSS	300412-022	Soil	260530	06/15/18 13:06	1.0	
008	166_008	MS	QC936032	Soil	260530	06/15/18 13:34	1.0	
009	166_009	MSD	QC936033	Soil	260530	06/15/18 14:02	1.0	
010	166_010	SAMPLE	300412-010	Soil	260530	06/15/18 14:31	1.0	
011	166_011	IB				06/15/18 15:31	1.0	
012	166_012	CCV	DSL_1000			06/15/18 15:59	1.0	4
013	166_013	CCV	MO_500			06/15/18 16:27	1.0	3
014	166_014	X	CMARKER			06/15/18 16:55	1.0	1
015	166_015	CHECK	CCV			06/15/18 17:24	1.0	5
016	166_016	BLANK	QC936141	Soil	260555	06/15/18 18:13	1.0	
017	166_017	LCS	QC936142	Soil	260555	06/15/18 18:41	1.0	
018	166_018	MSS	300453-012	Soil	260555	06/15/18 19:09	1.0	
019	166_019	MS	QC936143	Soil	260555	06/15/18 19:38	1.0	
020	166_020	MSD	QC936144	Soil	260555	06/15/18 20:06	1.0	
021	166_021	SAMPLE	300660-001	Soil	260555	06/15/18 20:34	1.0	
022	166_022	IB				06/15/18 21:02	1.0	
023	166_023	SAMPLE	300639-031	Soil	260555	06/15/18 21:31	1.0	
024	166_024	SAMPLE	300639-032	Soil	260555	06/15/18 21:59	1.0	
025	166_025	SAMPLE	300639-036	Soil	260555	06/15/18 22:28	1.0	
026	166_026	SAMPLE	300639-035	Soil	260555	06/15/18 22:56	1.0	
027	166_027	SAMPLE	300639-033	Soil	260555	06/15/18 23:25	1.0	
028	166_028	SAMPLE	300639-034	Soil	260555	06/15/18 23:54	1.0	
029	166_029	IB				06/16/18 00:23	1.0	
030	166_030	CCV	DSL_500			06/16/18 00:51	1.0	2
031	166_031	CCV	MO_500			06/16/18 01:20	1.0	3
032	166_032	X	CMARKER			06/16/18 01:48	1.0	1

CB1 06/18/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868183255

Instrument : GC26A
 Method : EPA 8015B

Begun : 05/07/18 06:15
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	127a001	IB				05/07/18 06:15	1.0	
002	127a002	IB				05/07/18 06:43	1.0	
003	127a003	IB				05/07/18 07:11	1.0	
004	127a004	IB				05/07/18 07:39	1.0	
005	127a005	X	CMARKER			05/07/18 08:07	1.0	1
006	127a006	IB	CALIB			05/07/18 09:07	1.0	
007	127a007	ICAL	HEXOTP_5			05/07/18 09:35	1.0	2
008	127a008	ICAL	HEXOTP_10			05/07/18 10:04	1.0	3
009	127a009	ICAL	HEXOTP_25			05/07/18 10:33	1.0	4
010	127a010	ICAL	HEXOTP_50			05/07/18 11:02	1.0	5
011	127a011	ICAL	HEXOTP_100			05/07/18 11:31	1.0	6
012	127a012	ICAL	HEXOTP_200			05/07/18 12:00	1.0	7
013	127a013	IB	CALIB			05/07/18 12:28	1.0	
014	127a014	ICAL	MO_50			05/07/18 12:57	1.0	8
015	127a015	ICAL	MO_250			05/07/18 13:26	1.0	9
016	127a016	ICAL	MO_500			05/07/18 13:54	1.0	10
017	127a017	ICAL	MO_1000			05/07/18 14:22	1.0	11
018	127a018	ICAL	MO_2500			05/07/18 14:51	1.0	12
019	127a019	ICAL	MO_5000			05/07/18 15:19	1.0	12
020	127a020	IB	CALIB			05/07/18 15:47	1.0	
021	127a021	CMARKER	C8-C50			05/07/18 16:15	1.0	13
022	127a022	IB	CALIB			05/07/18 16:44	1.0	

CB1 05/08/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 22.

Standards used: 1=S36439 2=S36499 3=S36500 4=S36501 5=S36502 6=S36503 7=S36504 8=S36946 9=S36948 10=S36949 11=S36951
 12=S36926 13=S34578

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868236461

Instrument : GC26A Begun : 06/13/18 05:01
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	164a001	IB					06/13/18 05:01	1.0		
002	164a002	X	CMARKER				06/13/18 05:29	1.0	1	
003	164a003	CCV	DSL_500				06/13/18 05:58	1.0	2	
004	164a004	CCV	MO_500				06/13/18 06:26	1.0	3	
005	164a005	SAMPLE	300455-006	S	Soil	260411	06/13/18 07:46	1.0		3:BUNKC:12-40=11000
006	164a006	SAMPLE	300455-015	S	Soil	260411	06/13/18 08:14	3.0		2:BUNKC:12-40=6600
007	164a007	SAMPLE	300439-007		Soil	260411	06/13/18 08:43	2.0		
008	164a008	IB					06/13/18 09:14	1.0		
009	164a009	CCV	DSL_250				06/13/18 09:42	1.0	4	
010	164a010	CCV	MO_500				06/13/18 10:10	1.0	3	
011	164a011	X	CMARKER				06/13/18 10:38	1.0	1	
012	164a012	SAMPLE	300523-001	S	Soil	260328	06/13/18 11:07	1.0		
013	164a013	SAMPLE	300523-002	S	Soil	260328	06/13/18 11:36	1.0		
014	164a014	SAMPLE	300523-003	S	Soil	260328	06/13/18 12:05	1.0		
015	164a015	SAMPLE	300478-002		Water	260379	06/13/18 12:34	1.0		
016	164a016	SAMPLE	300540-001		Water	260379	06/13/18 13:04	1.0		
017	164a017	SAMPLE	300560-001		Water	260379	06/13/18 13:33	1.0		
018	164a018	SAMPLE	300598-001		Water	260379	06/13/18 14:03	1.0		
019	164a019	MS	QC935539		Soil	260411	06/13/18 14:30	1.0		
020	164a020	CCV	DSL_500				06/13/18 15:05	1.0	2	
021	164a021	CCV	MO_500				06/13/18 15:35	1.0	3	
022	164a022	X	CMARKER				06/13/18 16:03	1.0	1	
023	164a023	IB					06/13/18 18:28	1.0		
024	164a024	IB	CALIB				06/13/18 18:57	1.0		
025	164a025	ICAL	HEXOTP_5				06/13/18 19:26	1.0	5	
026	164a026	ICAL	HEXOTP_10				06/13/18 19:56	1.0	6	
027	164a027	ICAL	HEXOTP_25				06/13/18 20:25	1.0	7	
028	164a028	ICAL	HEXOTP_50				06/13/18 20:54	1.0	8	
029	164a029	ICAL	HEXOTP_100				06/13/18 21:23	1.0	9	
030	164a030	ICAL	HEXOTP_200				06/13/18 21:52	1.0	10	
031	164a031	IB	CALIB				06/13/18 22:20	1.0		
032	164a032	CMARKER	C8-C40				06/13/18 22:49	1.0	1	
033	164a033	IB	CALIB				06/13/18 23:18	1.0		

CB1 06/14/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 33.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978075275

Instrument : GC27A Begun : 02/21/18 06:35
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	052a001	IB				02/21/18 06:35	1.0		
002	052a002	IB				02/21/18 10:28	1.0		
003	052a003	IB	CALIB			02/21/18 10:53	1.0		
004	052a004	ICAL	HEX OTP_5			02/21/18 11:18	1.0	1	
005	052a005	ICAL	HEX OTP_10			02/21/18 11:43	1.0	2	
006	052a006	ICAL	HEX OTP_25			02/21/18 12:08	1.0	3	
007	052a007	ICAL	HEX OTP_50			02/21/18 12:33	1.0	4	
008	052a008	ICAL	HEX OTP_100			02/21/18 12:59	1.0	5	
009	052a009	ICAL	HEX OTP_200			02/21/18 13:24	1.0	6	
010	052a010	IB	CALIB			02/21/18 13:49	1.0		
011	052a011	ICAL	DSL_10			02/21/18 14:14	1.0	7	
012	052a012	ICAL	DSL_100			02/21/18 14:39	1.0	8	
013	052a013	ICAL	DSL_500			02/21/18 15:05	1.0	9	
014	052a014	ICAL	DSL_1000			02/21/18 15:30	1.0	10	
015	052a015	ICAL	DSL_5000			02/21/18 15:55	1.0	11	
016	052a016	IB	CALIB			02/21/18 16:20	1.0		
017	052a017	ICV	DSL_500			02/21/18 16:46	1.0	12	
018	052a018	IB	CALIB			02/21/18 17:11	1.0		
019	052a019	ICAL	MO_50			02/21/18 17:36	1.0	13	
020	052a020	ICAL	MO_250			02/21/18 18:01	1.0	14	
021	052a021	ICAL	MO_500			02/21/18 18:27	1.0	15	
022	052a022	ICAL	MO_1000			02/21/18 18:52	1.0	16	
023	052a023	ICAL	MO_2500			02/21/18 19:17	1.0	17	
024	052a024	ICAL	MO_5000			02/21/18 19:42	1.0	17	
025	052a025	IB	CALIB			02/21/18 20:08	1.0		
026	052a026	CMARKER	C8-C50			02/21/18 20:33	1.0	18	4:BUNKC:10-40=14000
027	052a027	IB	CALIB			02/21/18 20:58	1.0		

WA1 02/22/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 27.

Standards used: 1=S34657 2=S34659 3=S34661 4=S34663 5=S34664 6=S34665 7=S34580 8=S34581 9=S34582 10=S34583 11=S34579
 12=S35164 13=S34924 14=S34925 15=S34926 16=S34927 17=S34923 18=S34578

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978167410

Instrument : GC27A
 Method : EPA 8015B

Begun : 04/26/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	116a001	IB				04/26/18 06:10	1.0	
002	116a002	X	CMARKER			04/26/18 06:35	1.0	1
003	116a003	CCV	DSL_500			04/26/18 07:00	1.0	2
004	116a004	CCV	MO_500			04/26/18 07:26	1.0	3
005	116a005	MDL	298735-004	Soil	258375	04/26/18 11:08	1.0	
006	116a006	MDL	298735-005	Soil	258375	04/26/18 11:34	1.0	
007	116a007	MDL	298735-006	Soil	258375	04/26/18 11:59	1.0	
008	116a008	CCV	DSL_250			04/26/18 12:24	1.0	4
009	116a009	CCV	MO_500			04/26/18 12:50	1.0	3
010	116a010	X	CMARKER			04/26/18 13:15	1.0	1
011	116a011	IB				04/26/18 13:40	1.0	
012	116a012	IB	CALIB			04/26/18 14:05	1.0	
013	116a013	ICAL	MO_50			04/26/18 14:30	1.0	5
014	116a014	ICAL	MO_250			04/26/18 14:56	1.0	6
015	116a015	ICAL	MO_500			04/26/18 15:21	1.0	7
016	116a016	ICAL	MO_1000			04/26/18 15:46	1.0	8
017	116a017	XICAL	MO_2500			04/26/18 16:11	1.0	9
018	116a018	IB				04/26/18 16:36	1.0	
019	116a019	ICAL	MO_2500			04/26/18 17:01	1.0	9
020	116a020	ICAL	MO_5000			04/26/18 17:26	1.0	9
021	116a021	IB	CALIB			04/26/18 17:51	1.0	
022	116a022	CMARKER	C8-C50			04/26/18 18:33	1.0	10
023	116a023	IB	CALIB			04/26/18 18:58	1.0	

WA1 04/26/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 10.

CB1 04/27/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 11 through 23.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S34924 6=S34925 7=S34926 8=S34927 9=S34923 10=S34578

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978168840

Instrument : GC27A
 Method : EPA 8015B

Begun : 04/27/18 06:00
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	117a001	IB				04/27/18 06:00	1.0	
002	117a002	X	CMARKER			04/27/18 06:26	1.0	1
003	117a003	CCV	DSL_500			04/27/18 06:51	1.0	2
004	117a004	CCV	MO_500			04/27/18 07:17	1.0	3
005	117a005	IB	CALIB			04/27/18 10:50	1.0	
006	117a006	ICAL	DSL_10			04/27/18 11:21	1.0	4
007	117a007	ICAL	DSL_100			04/27/18 11:46	1.0	5
008	117a008	ICAL	DSL_500			04/27/18 12:11	1.0	6
009	117a009	ICAL	DSL_1000			04/27/18 12:36	1.0	7
010	117a010	ICAL	DSL_5000			04/27/18 13:01	1.0	8
011	117a011	IB	CALIB			04/27/18 13:27	1.0	
012	117a012	ICV	DSL_500			04/27/18 13:52	1.0	9
013	117a013	IB	CALIB			04/27/18 14:17	1.0	
014	117a014	CMARKER	C8-C50			04/27/18 14:43	1.0	10
015	117a015	IB	CALIB			04/27/18 15:08	1.0	
016	117a016	IB				04/27/18 16:24	1.0	
017	117a017	CCV	DSL_1000			04/27/18 16:49	1.0	11
018	117a018	CCV	MO_500			04/27/18 17:14	1.0	3
019	117a019	X	CMARKER			04/27/18 17:39	1.0	1
020	117a020	MDL	298735-007	Soil	258428	04/27/18 18:04	1.0	
021	117a021	MDL	298735-008	Soil	258428	04/27/18 18:29	1.0	
022	117a022	CCV	DSL_500			04/27/18 18:55	1.0	2
023	117a023	CCV	MO_500			04/27/18 19:20	1.0	3
024	117a024	X	CMARKER			04/27/18 19:45	1.0	1

CB1 04/27/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 4.

WA1 04/27/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 5 through 15.

CB1 04/30/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 16 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978235089

Instrument : GC27A
 Method : EPA 8015B

Begun : 06/12/18 06:09
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	163a001	IB					06/12/18 06:09	1.0	
002	163a002	X	CMARKER				06/12/18 06:34	1.0	1
003	163a003	CCV	DSL_500				06/12/18 06:59	1.0	2
004	163a004	CCV	MO_500				06/12/18 07:25	1.0	3
005	163a005	BLANK	QC935363	S	Soil	260369	06/12/18 10:20	1.0	
006	163a006	LCS	QC935364	S	Soil	260369	06/12/18 10:45	1.0	
007	163a007	SAMPLE	300413-014	S	Soil	260369	06/12/18 11:10	1.0	
008	163a008	SAMPLE	300413-010	S	Soil	260369	06/12/18 11:35	1.0	3:BUNKC:12-40=7700
009	163a009	SAMPLE	300413-005	S	Soil	260369	06/12/18 12:01	2.0	2:BUNKC:12-40=6400
010	163a010	IB					06/12/18 12:28	1.0	
011	163a011	CCV	DSL_1000				06/12/18 12:53	1.0	4
012	163a012	CCV	MO_500				06/12/18 13:18	1.0	3
013	163a013	X	CMARKER				06/12/18 13:44	1.0	1
014	163a014	BLANK	QC935403	S	Water	260379	06/12/18 14:09	1.0	
015	163a015	BS	QC935404	S	Water	260379	06/12/18 14:34	1.0	
016	163a016	BSD	QC935405	S	Water	260379	06/12/18 15:00	1.0	
017	163a017	SAMPLE	300394-025	S	Water	260379	06/12/18 15:25	1.0	3:BUNKC:10-40=15000
018	163a018	IB					06/12/18 15:50	1.0	
019	163a019	SAMPLE	300449-001		Soil	260411	06/12/18 16:16	1.0	
020	163a020	SAMPLE	300449-002		Soil	260411	06/12/18 16:41	1.0	
021	163a021	SAMPLE	300449-003		Soil	260411	06/12/18 17:07	1.0	
022	163a022	SAMPLE	300449-004		Soil	260411	06/12/18 17:32	1.0	
023	163a023	SAMPLE	300449-005		Soil	260411	06/12/18 17:58	1.0	
024	163a024	SAMPLE	300449-006		Soil	260411	06/12/18 18:23	1.0	
025	163a025	IB					06/12/18 18:48	1.0	
026	163a026	CCV	DSL_500				06/12/18 19:14	1.0	2
027	163a027	CCV	MO_500				06/12/18 19:39	1.0	3
028	163a028	X	CMARKER				06/12/18 20:04	1.0	1
029	163a029	BLANK	QC935613		Soil	260428	06/12/18 20:30	1.0	
030	163a030	LCS	QC935614		Soil	260428	06/12/18 20:55	1.0	
031	163a031	MSS	300379-020		Soil	260428	06/12/18 21:20	1.0	
032	163a032	MS	QC935615		Soil	260428	06/12/18 21:45	1.0	
033	163a033	MSD	QC935616		Soil	260428	06/12/18 22:10	1.0	
034	163a034	SAMPLE	300565-001		Soil	260428	06/12/18 22:36	10.0	sh
035	163a035	IB					06/12/18 23:01	1.0	
036	163a036	SAMPLE	300379-019		Soil	260428	06/12/18 23:26	1.0	
037	163a037	SAMPLE	300379-021		Soil	260428	06/12/18 23:52	1.0	
038	163a038	SAMPLE	300412-001		Soil	260428	06/13/18 00:17	1.0	
039	163a039	SAMPLE	300412-002		Soil	260428	06/13/18 00:43	1.0	
040	163a040	SAMPLE	300412-003		Soil	260428	06/13/18 01:08	1.0	
041	163a041	SAMPLE	300412-004		Soil	260428	06/13/18 01:33	1.0	
042	163a042	IB					06/13/18 01:59	1.0	
043	163a043	CCV	DSL_1000				06/13/18 02:24	1.0	4
044	163a044	CCV	MO_500				06/13/18 02:49	1.0	3
045	163a045	X	CMARKER				06/13/18 03:14	1.0	1
046	163a046	BLANK	QC935537	S	Soil	260411	06/13/18 06:46	1.0	
047	163a047	LCS	QC935538	S	Soil	260411	06/13/18 07:11	1.0	
048	163a048	SAMPLE	300455-003	S	Soil	260411	06/13/18 07:45	1.0	
049	163a049	SAMPLE	300455-012	S	Soil	260411	06/13/18 08:11	2.0	3:BUNKC:12-40=12000
050	163a050	SAMPLE	300439-006		Soil	260411	06/13/18 08:36	3.0	
051	163a051	IB					06/13/18 09:02	1.0	
052	163a052	CCV	DSL_500				06/13/18 09:27	1.0	2

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978235089

Instrument : GC27A
 Method : EPA 8015B

Begun : 06/12/18 06:09
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	163a053	CCV	MO_500				06/13/18 09:52	1.0	3	
054	163a054	X	CMARKER				06/13/18 10:18	1.0	1	
055	163a055	SAMPLE	300379-009		Soil	260428	06/13/18 10:54	1.0		
056	163a056	SAMPLE	300379-010		Soil	260428	06/13/18 11:19	1.0		
057	163a057	SAMPLE	300379-011		Soil	260428	06/13/18 11:45	1.0		
058	163a058	SAMPLE	300379-012		Soil	260428	06/13/18 12:10	1.0		
059	163a059	SAMPLE	300379-013		Soil	260428	06/13/18 12:35	1.0		
060	163a060	SAMPLE	300379-014		Soil	260428	06/13/18 13:01	1.0		
061	163a061	SAMPLE	300379-015		Soil	260428	06/13/18 13:26	1.0		
062	163a062	SAMPLE	300379-016		Soil	260428	06/13/18 13:52	1.0		
063	163a063	SAMPLE	300379-017		Soil	260428	06/13/18 14:17	1.0		
064	163a064	SAMPLE	300379-018		Soil	260428	06/13/18 14:43	1.0		
065	163a065	IB					06/13/18 15:08	1.0		
066	163a066	CCV	DSL_250				06/13/18 15:34	1.0	5	
067	163a067	CCV	MO_500				06/13/18 15:59	1.0	3	
068	163a068	X	CMARKER				06/13/18 16:25	1.0	1	
069	163a069	CHECK	TANK				06/13/18 17:44	1.0		
070	163a070	CHECK	TANK				06/13/18 18:09	1.0		
071	163a071	BLANK	QC935770		Soil	260465	06/13/18 18:35	1.0		
072	163a072	LCS	QC935771		Soil	260465	06/13/18 19:00	1.0		
073	163a073	SAMPLE	300497-033	S	Soil	260454	06/13/18 19:26	2.0		
074	163a074	SAMPLE	300497-034	S	Soil	260454	06/13/18 19:51	2.0		3:BUNKC:12-40=6500
075	163a075	MSS	300482-001		Soil	260465	06/13/18 20:17	3.0		2:BUNKC:12-40=10000
076	163a076	MS	QC935772		Soil	260465	06/13/18 20:42	3.0		2:BUNKC:12-40=10000
077	163a077	MSD	QC935773		Soil	260465	06/13/18 21:07	3.0		2:BUNKC:12-40=9600
078	163a078	IB					06/13/18 21:32	1.0		
079	163a079	BLANK	QC935770	S	Soil	260465	06/13/18 21:58	1.0		
080	163a080	LCS	QC935771	S	Soil	260465	06/13/18 22:23	1.0		
081	163a081	SAMPLE	300490-001	S	Miscell.	260465	06/13/18 22:48	1.0		
082	163a082	SAMPLE	300600-005		Soil	260465	06/13/18 23:14	1.0		
083	163a083	SAMPLE	300600-010		Soil	260465	06/13/18 23:39	1.0		
084	163a084	SAMPLE	300500-001		Soil	260465	06/14/18 00:05	2.0		
085	163a085	SAMPLE	300500-002		Soil	260465	06/14/18 00:30	10.0		
086	163a086	IB					06/14/18 00:56	1.0		
087	163a087	CCV	DSL_500				06/14/18 01:21	1.0	2	
088	163a088	CCV	MO_500				06/14/18 01:47	1.0	3	
089	163a089	X	CMARKER				06/14/18 02:12	1.0	1	
090	163a090	IB					06/14/18 02:38	1.0		
091	163a091	IB	CALIB				06/14/18 03:03	1.0		
092	163a092	ICAL	HEX OTP_5				06/14/18 03:28	1.0	6	
093	163a093	ICAL	HEX OTP_10				06/14/18 03:54	1.0	7	
094	163a094	ICAL	HEX OTP_25				06/14/18 04:19	1.0	8	
095	163a095	ICAL	HEX OTP_50				06/14/18 04:44	1.0	9	
096	163a096	ICAL	HEX OTP_100				06/14/18 05:10	1.0	10	
097	163a097	ICAL	HEX OTP_200				06/14/18 05:35	1.0	11	
098	163a098	IB	CALIB				06/14/18 06:01	1.0		
099	163a099	CMARKER	C8-C50				06/14/18 06:27	1.0	12	
100	163a100	IB	CALIB				06/14/18 06:52	1.0		
101	163a101	CCV	DSL_250				06/14/18 07:27	1.0	5	
102	163a102	CCV	MO_500				06/14/18 07:53	1.0	3	
103	163a103	SAMPLE	300487-001		Soil	260465	06/14/18 08:36	5.0		
104	163a104	SAMPLE	300476-001		Soil	260465	06/14/18 09:01	5.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978235089

Instrument : GC27A Begun : 06/12/18 06:09
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
105	163a105	SAMPLE	300629-006		Soil	260485	06/14/18 09:30	1.0	
106	163a106	SAMPLE	300629-007		Soil	260485	06/14/18 09:56	1.0	
107	163a107	SAMPLE	300629-008		Soil	260485	06/14/18 10:21	1.0	
108	163a108	SAMPLE	300629-009		Soil	260485	06/14/18 10:46	1.0	
109	163a109	IB					06/14/18 11:11	1.0	
110	163a110	CCV	DSL_1000				06/14/18 11:37	1.0	4
111	163a111	CCV	MO_500				06/14/18 12:02	1.0	3
112	163a112	X	CMARKER				06/14/18 12:27	1.0	1
113	163a113	SAMPLE	300544-004	S	Soil	260485	06/14/18 15:31	2.0	3:BUNKC:12-40=12000
114	163a114	SAMPLE	300544-008	S	Soil	260485	06/14/18 15:56	2.0	4:BUNKC:12-40=12000
115	163a115	SAMPLE	300544-012	S	Soil	260485	06/14/18 16:21	2.0	2:BUNKC:12-40=5900
116	163a116	SAMPLE	300603-001	S	Soil	260485	06/14/18 16:46	1.0	2:BUNKC:12-40=6800
117	163a117	SAMPLE	300603-002	S	Soil	260485	06/14/18 17:12	1.0	6:BUNKC:12-40=22000
118	163a118	IB					06/14/18 17:37	1.0	
119	163a119	SAMPLE	300544-008	S	Soil	260485	06/14/18 18:02	5.0	
120	163a120	SAMPLE	300603-002	S	Soil	260485	06/14/18 18:27	5.0	
121	163a121	IB					06/14/18 18:53	1.0	
122	163a122	CCV	DSL_500				06/14/18 19:18	1.0	2
123	163a123	CCV	MO_500				06/14/18 19:43	1.0	3
124	163a124	X	CMARKER				06/14/18 20:08	1.0	1

CB1 06/12/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 13.

WA1 06/12/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 14 through 23.

CB1 06/15/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 24 through 124.

Standards used: 1=S36439 2=S36757 3=S36833 4=S36227 5=S36285 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S34578

Flags used: sh=out of sample hold

SAMPLE PREPARATION SUMMARY

Batch # : 260428
 Started By : AS1
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 12-JUN-2018 14:01
 Spike #2 ID : S37163

Analysis : TEHM
 Finished By : AS1
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300379-009		Soil	49.97	5	1	0.1001		1				TEHM	Transferred weight from SA2423
300379-010		Soil	50.01	5	1	0.09998		1				TEHM	Transferred weight from SA2424
300379-011		Soil	49.9	5	1	0.1002		1				TEHM	Transferred weight from SA2425
300379-012		Soil	49.9	5	1	0.1002		1				TEHM	Transferred weight from SA2426
300379-013		Soil	49.91	5	1	0.1002		1				TEHM	Transferred weight from SA2427
300379-014		Soil	50.16	5	1	0.09968		1				TEHM	Transferred weight from SA2428
300379-015		Soil	49.81	5	1	0.1004		1				TEHM	Transferred weight from SA2429
300379-016		Soil	49.96	5	1	0.1001		1				TEHM	Transferred weight from SA2430
300379-017		Soil	50.25	5	1	0.0995		1				TEHM	Transferred weight from SA2431
300379-018		Soil	49.82	5	1	0.1004		1				TEHM	Transferred weight from SA2432
300379-019		Soil	49.93	5	1	0.1001		1				TEHM	Transferred weight from SA2433
300379-020		Soil	49.9	5	1	0.1002		1				TEHM	Transferred weight from SA2434
300379-021		Soil	50.36	5	1	0.09929		1				TEHM	Transferred weight from SA2437
300412-001		Soil	50.14	5	1	0.09972		1				TEHM	Transferred weight from SA2438
300412-002		Soil	49.88	5	1	0.1002		1				TEHM	Transferred weight from SA2439
300412-003		Soil	50.24	5	1	0.09952		1				TEHM	Transferred weight from SA2440
300412-004		Soil	49.71	5	1	0.1006		1				TEHM	Transferred weight from SA2441
300565-001		Soil	50.09	5	1	0.09982		1				TEHM	Transferred weight from SA2442
QC935613	BLANK	Soil	50	5	1	0.1000		1				TEHM	
QC935614	LCS	Soil	50	5	1	0.1000		1	1			TEHM	
QC935615	MS	Soil	49.84	5	1	0.1003		1	1			TEHM	Transferred weight from SA2435
QC935616	MSD	Soil	50.03	5	1	0.09994		1	1			TEHM	Transferred weight from SA2436

Analyst: WA1

Date: 06/13/18

Reviewer: EAH

Date: 06/13/18

LIMS Batch No: 260428
 LIMS Analysis: TEHM
 Date Extracted: 6/12/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

LIM
 LI
 Da

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
300379-009	D	transferred from B-15	5.0 <input type="checkbox"/>		
10			5.0 <input type="checkbox"/>		
11			5.0 <input type="checkbox"/>		
12			5.0 <input type="checkbox"/>		
13			5.0 <input type="checkbox"/>		
14			5.0 <input type="checkbox"/>		
15			5.0 <input type="checkbox"/>		
16			5.0 <input type="checkbox"/>		
17			5.0 <input type="checkbox"/>		
18			5.0 <input type="checkbox"/>		
19			5.0 <input type="checkbox"/>		
20			5.0 <input type="checkbox"/>		MSS
21			5.0 <input type="checkbox"/>		
300412-001	D		5.0 <input type="checkbox"/>		
2			5.0 <input type="checkbox"/>		
3			5.0 <input type="checkbox"/>		
4			5.0 <input type="checkbox"/>		
300565-001	B		5.0 <input type="checkbox"/>		
MBQC935613	N/A	50.00	5.0 <input type="checkbox"/>		
10			5.0 <input type="checkbox"/>		
MS		50.00	5.0 <input type="checkbox"/>		
MS		transferred from B-15	5.0 <input type="checkbox"/>		
MSD			5.0 <input type="checkbox"/>		
			5.0 <input type="checkbox"/>		
			5.0 <input type="checkbox"/>		
			5.0 <input type="checkbox"/>		

MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-15 Has been calibrated? Yes No

Mfg & Lot # / LIMS # / Time Date/Initials

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄
 1.0 mL of Surrogate solution was added to all samples
 1.0 mL of Spike solution was added to all spikes
 1:1 CH₂Cl₂ (lot# FM58068):Acetone (lot# FC181819) was added to all
 Solvent added at (time) 140
 Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to final volume in boiling H₂O bath
 Relinquished to TEH Department

FM16I285202	ASI 6/12/18
FM18B2156592	
S37162C	
S37163D	
FM18B2156592	

[Signature] 6/12/18
 Extraction Chemist / Date

Continued from page 7
 Continued on page _____

[Signature] 6/13/18
 Reviewed by / Date

SAMPLE PREPARATION SUMMARY

Batch # : 260454
 Started By : ALE
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 13-JUN-2018 12:13
 Spike #2 ID : S37163

Analysis : TEHM
 Finished By : ALE
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300412-005		Soil	50.23	5	1	0.09954		1				TEHM	Transferred weight from SA2467
300412-006		Soil	50.33	5	1	0.09934		1				TEHM	Transferred weight from SA2468
300412-007		Soil	49.75	5	1	0.1005		1				TEHM	Transferred weight from SA2469
300412-008		Soil	50.4	5	1	0.09921		1				TEHM	Transferred weight from SA2472
300412-009		Soil	50.22	5	1	0.09956		1				TEHM	Transferred weight from SA2473
300463-001		Soil	50.12	5	1	0.09976		1				TEHM	See comment 1 below
300463-002		Soil	49.98	5	1	0.1000		1				TEHM	See comment 2 below
300491-005		Soil	49.8	5	1	0.1004		1			3630	TEHM	See comment 3 below
300497-005		Soil	50.17	5	1	0.09966		1			3630	TEHM	See comment 4 below
300497-008		Soil	50.28	5	1	0.09944		1			3630	TEHM	See comment 5 below
300497-012		Soil	50.13	5	1	0.09974		1			3630	TEHM	See comment 6 below
300497-013		Soil	49.84	5	1	0.1003		1			3630	TEHM	See comment 7 below
300497-018		Soil	50.11	5	1	0.09978		1			3630	TEHM	See comment 7 below
300497-019		Soil	50.18	5	1	0.09964		1			3630	TEHM	See comment 7 below
300497-023		Soil	49.67	5	1	0.1007		1			3630	TEHM	See comment 8 below
300497-027		Soil	49.99	5	1	0.1000		1			3630	TEHM	See comment 9 below
300497-030		Soil	49.79	5	1	0.1004		1			3630	TEHM	See comment 10 below
300497-033		Soil	49.83	5	1	0.1003		1			3630	TEHM	See comment 11 below
300497-034		Soil	49.85	5	1	0.1003		1			3630	TEHM	See comment 12 below
300559-003		Soil	49.75	5	1	0.1005		1				TEHM	comp 559 (1,2) @ 80 g ea
QC935723	BLANK	Soil	50	5	1	0.1000		1			3630	TEHM	
QC935724	LCS	Soil	50	5	1	0.1000		1	1		3630	TEHM	
QC935725	MS	Soil	49.92	5	1	0.1002		1	1			TEHM	Transferred weight from SA2470
QC935726	MSD	Soil	50.25	5	1	0.0995		1	1			TEHM	Transferred weight from SA2471

Comment 1: Prepped 13-JUN-2018 12:35; Transferred weight from SA2474; A/O ALE
 Comment 2: Prepped 13-JUN-2018 12:35; Transferred weight from SA2475; A/O ALE
 Comment 3: Prepped 13-JUN-2018 12:35; A/O ALE comp 300491(1-4) @100g ea
 Comment 4: Prepped 13-JUN-2018 12:35; A/O ALE comp 300497 (1-4) @30g ea
 Comment 5: Prepped 13-JUN-2018 12:35; A/O ALE comp 300497 6,7 @ 50g ea
 Comment 6: Prepped 13-JUN-2018 12:35; A/O ALE comp 300497 (9-11) @30g ea
 Comment 7: Prepped 13-JUN-2018 12:35; A/O ALE
 Comment 8: Prepped 13-JUN-2018 12:35; A/O ALE comp 300497 (20-22) @30g ea
 Comment 9: Prepped 13-JUN-2018 12:35; A/O ALE comp 300497 (24-26) @50g ea
 Comment 10: Prepped 13-JUN-2018 12:35; A/O ALE comp 300497 (28,29) @50g ea
 Comment 11: comp 300497-031, 300455-007 @50g ea
 Comment 12: comp 300497-032, 300455-008 @80 g ea

Analyst: CB1 Date: 06/14/18 Reviewer: EAH Date: 06/14/18

LIMS Batch No: 260454
 LIMS Analysis: TEHM
 Date Extracted: 6/13/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
300412-005	D	transferred	✓ 5.0 <input type="checkbox"/>		
6	D		✓ 5.0 <input type="checkbox"/>		
7	D		✓ 5.0 <input type="checkbox"/>		
8	D		✓ 5.0 <input type="checkbox"/>		
9	D		✓ 5.0 <input type="checkbox"/>		
300463-001	B		✓ 5.0 <input type="checkbox"/>		
2	B		✓ 5.0 <input type="checkbox"/>		A/ONE 6/13/18 12:35
300491-005	N/A	49.80	✓ 5.0 <input type="checkbox"/>	X	comp. 1-4 @ 100g ea.
300497-005		50.17	✓ 5.0 <input type="checkbox"/>	X	1-4 @ 30g ea.
08		50.28	✓ 5.0 <input type="checkbox"/>	X	6,7 @ 30g ea.
12		50.13	✓ 5.0 <input type="checkbox"/>	X	9,10,11 @ 30g ea.
13	A	49.84	✓ 5.0 <input type="checkbox"/>	X	ID:A
18	N/A	50.11	✓ 5.0 <input type="checkbox"/>	X	comp. 14,15,16,17 @ 30g ea.
19	A	50.18	✓ 5.0 <input type="checkbox"/>	X	ID:A
23	N/A	49.67	✓ 5.0 <input type="checkbox"/>	X	comp. 20,21,22 @ 30g ea.
27		49.99	✓ 5.0 <input type="checkbox"/>	X	24,25,26 @ 30g ea.
30		49.79	✓ 5.0 <input type="checkbox"/>	X	28,29 @ 30g ea.
33		49.83	✓ 5.0 <input type="checkbox"/>	X	300497-031 + 300455-007, 80g ea.
34		49.85	✓ 5.0 <input type="checkbox"/>	X	300497-032 + 300455-008, 80g ea.
300559-003		49.75	✓ 5.0 <input type="checkbox"/>		comp. 1,2 @ 80g ea.
MB QC935723	N/A	50.00	✓ 5.0 <input type="checkbox"/>	X	
LCS	4	N/A	✓ 5.0 <input type="checkbox"/>	X	
MS	S	D	transferred	✓ 5.0 <input type="checkbox"/>	
MSD	6	D	transferred	✓ 5.0 <input type="checkbox"/>	
			5.0 <input type="checkbox"/>		

MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-15 Has been calibrated? Yes No

Mfg & Lot # / LIMS # / Time Date/Initials

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples

Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄

1.0 mL of Surrogate solution was added to all samples

1.0 mL of Spike solution was added to all spikes

1:1 CH₂Cl₂ (lot# EM8068):Acetone (lot# FC181819) was added to all

Solvent added at (time)

Sonicated 3 times w/ >100mL 1:1 DCM:Acetone

Extracts filtered through baked, rinsed powdered Na₂SO₄

Concentrated to final volume in boiling H₂O bath

Relinquished to TEH Department

EM16128S202	6-12-18	ALE6/13/18
8B21565A2	6-12-18/6-5-18	
S37162C		
S37163D		
	12:13/12:35	
EM0677C502	6-12-18	
EM0677C502	6-12-18	

A2 6/13/18
 Extraction Chemist / Date

Continued from page
 Continued on page

[Signature] 6/14/18
 Reviewed by / Date

SAMPLE PREPARATION SUMMARY

Batch # : 260530
 Started By : JCT
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 15-JUN-2018 09:56
 Spike #2 ID : S37163

Analysis : TEH
 Finished By : JCT
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300412-010		Soil	49.82	5	1	0.1004		1				TEHM	Transferred weight from SA2539
300412-011		Soil	49.91	5	1	0.1002		1				TEHM	Transferred weight from SA2540
300412-012		Soil	49.72	5	1	0.1006		1				TEHM	Transferred weight from SA2541
300412-013		Soil	50	5	1	0.1000		1				TEHM	Transferred weight from SA2542
300412-014		Soil	50.2	5	1	0.0996		1				TEHM	Transferred weight from SA2543
300412-015		Soil	50.18	5	1	0.09964		1				TEHM	Transferred weight from SA2544
300412-016		Soil	49.84	5	1	0.1003		1				TEHM	Transferred weight from SA2545
300412-017		Soil	50.02	5	1	0.09996		1				TEHM	Transferred weight from SA2546
300412-018		Soil	49.95	5	1	0.1001		1				TEHM	Transferred weight from SA2547
300412-019		Soil	50	5	1	0.1000		1				TEHM	Transferred weight from SA2548
300412-020		Soil	50.31	5	1	0.09938		1				TEHM	Transferred weight from SA2549
300412-021		Soil	49.87	5	1	0.1003		1				TEHM	Transferred weight from SA2550
300412-022		Soil	50.24	5	1	0.09952		1				TEHM	Transferred weight from SA2551
300412-023		Soil	50.17	5	1	0.09966		1				TEHM	Transferred weight from SA2554
300412-025		Soil	50.48	5	1	0.09905		1				TEHM	Transferred weight from SA2555
300453-001		Soil	50.02	5	1	0.09996		1				TEHM	Transferred weight from SA2556
300453-002		Soil	49.95	5	1	0.1001		1				TEHM	Transferred weight from SA2557
300453-003		Soil	49.91	5	1	0.1002		1				TEHM	Transferred weight from SA2558
300453-004		Soil	49.96	5	1	0.1001		1				TEHM	Transferred weight from SA2559
300453-005		Soil	49.73	5	1	0.1005		1				TEHM	Transferred weight from SA2560
QC936030	BLANK	Soil	50	5	1	0.1000		1					
QC936031	LCS	Soil	50	5	1	0.1000		1	1				
QC936032	MS	Soil	49.91	5	1	0.1002		1	1				Transferred weight from SA2552
QC936033	MSD	Soil	49.97	5	1	0.1001		1	1				Transferred weight from SA2553

Analyst: WA1

Date: 06/15/18

Reviewer: EAH

Date: 06/18/18

LIMS Batch No: 260530
 LIMS Analysis: TEHM
 Date Extracted: 6/15/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

LIM
 LI
 Dat

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
300412-010	D	transferred	5.0		
11		from scale	5.0		
12		B-15	5.0		
13			5.0		
14			5.0		
15			5.0		
16			5.0		
17			5.0		
18			5.0		
19			5.0		
20			5.0		
21			5.0		
22			5.0		MSS
23			5.0		
24			5.0		not in batch per 6/15/18
25			5.0		
300453-001			5.0		
2			5.0		
3			5.0		
4			5.0		
5			5.0		
MB QC 936030	N/A	50.00	5.0		
LCS	1	50.00	5.0		
MS	2	transferred	5.0		
MSD	3	from B-15	5.0		

MS/MSD not included due to: insufficient volume, or other (reason) _____

Balance ID: B-15 Has been calibrated? Yes No

Mfg & Lot # / LIMS # / Time Date/Initials

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄
1.0 mL of Surrogate solution was added to all samples
1.0 mL of Spike solution was added to all spikes
 1:1 CH₂Cl₂ (lot# EMS8068):Acetone (lot# FC181819) was added to all
 Solvent added at (time) 9:56
 Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to final volume in boiling H₂O bath
 Relinquished to TEH Department

EM16I285202	JCI 6/15/18
S371626	
S37162C	
S37163D	
-	
9:56	
-	
EM18B2156592	
✓	
✓	

[Signature] 6/15/18 Extraction Chemist / Date
 Continued from page 7
 Continued on page 7

[Signature] 6/15/18
 Reviewed by / Date

Laboratory Job Number 300412

ANALYTICAL REPORT

Wet Chemistry

Matrix: Soil

Moisture			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	METHOD
Project#:	285830.02.01	Analysis:	ASTM D2216-98/CLP
Analyte:	Moisture, Percent	Sampled:	06/05/18
Matrix:	Soil	Received:	06/05/18
Units:	%	Analyzed:	06/11/18
Diln Fac:	1.000		

Field ID	Lab ID	Result	RL	Batch#
BR11-1SB013[3]	300412-001	17	1	260350
BR11-1SB013[5]	300412-002	17	1	260350
BR11-1SB013[7]	300412-003	15	1	260350
BR11-1SB013[10]	300412-004	14	1	260350
BR11-1SB013[15]	300412-005	14	1	260350
BR11-1SB013[20]	300412-006	17	1	260350
BR11-1SB013[25]	300412-007	15	1	260350
BR11-1SB013[30]	300412-008	10	1	260350
BR11-1SB013[35]	300412-009	8	1	260350
BR11-1SB013[40]	300412-010	8	1	260350
BR11-1SB013[45]	300412-011	10	1	260350
BR11-1SB013[50]	300412-012	13	1	260350
DUP06052018-01	300412-013	8	1	260350
BR11-1SB017[3]	300412-014	14	1	260350
BR11-1SB017[5]	300412-015	17	1	260350
BR11-1SB017[7]	300412-016	15	1	260350
BR11-1SB017[10]	300412-017	16	1	260350
BR11-1SB017[15]	300412-018	15	1	260350
BR11-1SB017[20]	300412-019	15	1	260350
BR11-1SB017[25]	300412-020	16	1	260350
BR11-1SB017[30]	300412-021	15	1	260351
BR11-1SB017[35]	300412-022	14	1	260351
BR11-1SB017[40]	300412-023	19	1	260351
DUP06052018-02	300412-025	16	1	260351

RL= Reporting Limit

Batch QC Report

Moisture			
Lab #:	300412	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	METHOD
Project#:	285830.02.01	Analysis:	ASTM D2216-98/CLP
Analyte:	Moisture, Percent	Units:	%
Type:	SDUP	Diln Fac:	1.000
Matrix:	Soil	Analyzed:	06/11/18

Field ID	MSS Lab ID	Lab ID	MSS Result	Result	RL	RPD	Lim	Batch#	Sampled	Received
BR11-1SB013[30]	300412-008	QC935297	10.48	10.38	1.000	1	26	260350	06/05/18	06/05/18
ZZZZZZZZZZ	300508-003	QC935298	11.18	10.51	1.000	6	26	260351	06/06/18	06/08/18

RL= Reporting Limit

RPD= Relative Percent Difference

Percent Moisture Summary Report

Batch: 260351
 Date: 06/11/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
300379-021	11.28	17.96	16.88	84	16
300412-021	11.37	16.92	16.06	85	15
300412-022	11.31	18.40	17.39	86	14
300412-023	11.34	18.12	16.80	81	19
300412-025	11.05	17.35	16.37	84	16
300453-023	11.20	17.16	16.29	85	15
300453-024	11.06	17.59	16.58	85	15
300455-003	10.83	16.12	15.52	89	11
300455-006	11.24	16.62	16.11	91	9
300455-012	11.24	16.47	15.97	90	10
300455-015	10.85	16.31	15.75	90	10
300473-001	11.05	17.19	16.20	84	16
300473-002	10.86	16.85	16.08	87	13
300473-003	11.28	17.14	16.45	88	12
300482-001	11.05	18.04	17.26	89	11
300487-001	11.04	16.91	16.43	92	8
300508-001	11.35	17.64	17.23	93	7
300508-002	11.29	17.52	16.94	91	9
300508-003	10.89	17.06	16.37	89	11
QC935298	11.35	17.25	16.63	89	11
of 300508-003			RPD:	0.8%	6.2%

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

LIMS Batch #: 260351
 Date: 6-11-18

Page: 41
 Benchbook#: BK 4277

Balance ID: B-13
 calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLK	66	11.59	∅	11.59	
300379-021 D	70	11.28	17.96	16.88	
300412-021	16	11.37	16.92	16.06	
↓ -022	35	11.31	18.40	17.39	
↓ -023	84	11.34	18.12	16.80	
↓ -025	55	11.05	17.35	16.37	
300455-003 A	90	10.83	16.12	15.52	300455-192 (5000)
↓ -006	59	11.24	16.62	16.11	↓ -445
↓ -012	44	11.24	16.47	15.97	↓ -911
↓ -015	76	10.85	16.31	15.75	↓ -13914
300473-001	60	11.05	17.19	16.20	
↓ -002	63	10.86	16.85	16.08	
↓ -003	25	11.28	17.14	16.45	
300482-001 B	80	11.05	18.04	17.26	
300487-001 ↓	14	11.04	16.91	16.43	
300508-001 A	5	11.35	17.64	17.28 ³	
↓ -002	12	11.29	17.52	16.94	
↓ -003	72	10.89	17.06	16.37	
SDUP ↓ -003 ↓	37	11.35	17.25	16.63	
300453-023 D	85	11.20	17.16	16.29	
↓ -024 D	38	11.06	17.59	16.58	
6-11-18					

	In	Out	In-2	Out-2
Date:	6-11-18	6-11-18		
Time:	0250	2231		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MN	MN		

MN 6-11-18
 Analyst Initials / Date

Reviewed Online / See LIMS

Percent Moisture Summary Report

Batch: 260350
 Date: 06/11/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
300412-001	11.22	17.30	16.28	83	17
300412-002	11.20	16.77	15.83	83	17
300412-003	11.26	16.96	16.11	85	15
300412-004	11.11	17.50	16.63	86	14
300412-005	10.91	16.46	15.71	86	14
300412-006	11.40	17.14	16.15	83	17
300412-007	11.34	17.47	16.56	85	15
300412-008	10.97	16.79	16.18	90	10
300412-009	11.30	18.12	17.57	92	8
300412-010	11.30	17.46	16.96	92	8
300412-011	10.89	18.24	17.52	90	10
300412-012	11.41	18.27	17.35	87	13
300412-013	11.14	17.52	17.00	92	8
300412-014	11.30	17.73	16.80	86	14
300412-015	11.09	18.03	16.84	83	17
300412-016	11.30	17.89	16.92	85	15
300412-017	11.32	19.47	18.14	84	16
300412-018	11.30	18.78	17.65	85	15
300412-019	11.30	16.95	16.10	85	15
300412-020	10.94	17.96	16.84	84	16
QC935297	11.13	16.91	16.31	90	10
of 300412-008			RPD:	0.1%	1.0%

117

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

77

LIMS Batch #: 260350

Date: 6-11-18

Page: 40

Benchbook#: BK 4277

Balance ID: B-13

calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLK	10	11.04	∅	11.04	
300412-001 D	67	11.22	17.30	16.28	
-002	6	11.20	16.77	15.83	
-003	52	11.26	16.96	16.11	
-004	78	11.11	17.50	16.63	
-005	20	10.91	16.46	15.71	
-006	65	11.40	17.14	16.15	
-007	50	11.34	17.47	16.56	
-008	7	10.97	16.79	16.18	
-009	91	11.30	18.12	17.57	
-010	17	11.30	17.46	16.96	
-011	21	10.89	18.24	17.52	
-012	29	11.41	18.27	17.35	
-013	48	11.14	17.52	17.00	
-014	61	11.30	17.73	16.80	
-015	40	11.09	18.03	16.84	
-016	9	11.30	17.89	16.92	
-017	57	11.32	19.47	18.14	
-018	88	11.30	18.78	17.65	
-019	54	11.30	16.95	16.10	
-020	8	10.94	17.96	16.84	
3008 -008 ✓	47	11.13	16.91	16.31	

2016-11-18

	In	Out	In-2	Out-2
Date:	6-11-18	6-11-18		
Time:	0130	2135		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MV	MV		

MV 6-11-18
Analyst Initials / Date

Reviewed Online / See LIMS



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 300453 ANALYTICAL REPORT

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Avenue
Level : III

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
BR11-1SB015[3]	300453-001	BR11-1SB015[W]	300453-014
BR11-1SB015[5]	300453-002	BR11-1SB016[3]	300453-015
BR11-1SB015[7]	300453-003	BR11-1SB016[5]	300453-016
BR11-1SB015[10]	300453-004	BR11-1SB016[7]	300453-017
BR11-1SB015[15]	300453-005	BR11-1SB016[10]	300453-018
BR11-1SB015[20]	300453-006	BR11-1SB016[15]	300453-019
BR11-1SB015[25]	300453-007	BR11-1SB016[20]	300453-020
BR11-1SB015[30]	300453-008	BR11-1SB016[25]	300453-021
BR11-1SB015[35]	300453-009	BR11-1SB016[30]	300453-022
BR11-1SB015[40]	300453-010	BR11-1SB016[35]	300453-023
BR11-1SB015[45]	300453-011	DUP06062018-01	300453-024
DUP06052018-03	300453-012	BR11-1SB018[3]RB018[5]	300453-025
BR11-1SB017[W]	300453-013		

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Mike Dahlquist
Project Manager

mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

Date: 06/19/2018

CASE NARRATIVE

Laboratory number: 300453
Client: TRC Solutions
Project: 285830.02.01
Location: Riley Avenue
Request Date: 06/06/18
Samples Received: 06/06/18

This data package contains sample and QC results for twenty two soil samples and three water samples, requested for the above referenced project on 06/06/18. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B) Water:

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260388; this analyte was not detected in samples at or above the RL.

No other analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:

High surrogate recoveries were observed for bromofluorobenzene (FID) in BR11-1SB016[15] (lab # 300453-019) and DUP06062018-01 (lab # 300453-024).

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260316; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260383.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260513; this analyte was not detected in samples at or above the RL.

No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 260530; this analyte was not detected in samples at or above the RL.

No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

No analytical problems were encountered.

Moisture (ASTM D2216-98/CLP):

No analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 300453
Date Received: 6-6-18

Client: TRC
Project: Piley Avenue

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # A, or B

Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 6-6-18 By (print) [Signature] (sign) [Signature]

Shipping info (if applicable) _____

Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package

Date: _____ How many _____ Signature, Initials, None

Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important : Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

Samples received on ice directly from the field. Cooling process had begun

Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No

Temperature measured using Thermometer ID: _____, or IR Gun # A B

Cooler Temp (°C): #1: 1.6, #2: 4.0, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?	<input checked="" type="checkbox"/>		
If YES, what time were they transferred to freezer? <u>15:40</u>			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?			<input checked="" type="checkbox"/>
Did you change the hold time in LIMS for preserved terracores?	<input checked="" type="checkbox"/>		
Are bubbles > 6mm absent in VOA samples?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			<input checked="" type="checkbox"/>
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

H2SO4 lot# _____ added to samples _____ on/at _____

HCL lot# _____ added to samples _____ on/at _____

HNO3 lot# _____ added to samples _____ on/at _____

NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 6-6-18 By (print) TKY (sign) [Signature]

Date Labeled 6-7-18 By (print) TKY (sign) [Signature]

Detections Summary for 300453

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions
 Project : 285830.02.01
 Location : Riley Avenue

Client Sample ID : BR11-1SB015[3] Laboratory Sample ID : 300453-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.018	J	0.16	0.0087	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.45	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB015[5] Laboratory Sample ID : 300453-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.022	J	0.19	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.47	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB015[7] Laboratory Sample ID : 300453-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.024	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.53	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB015[10] Laboratory Sample ID : 300453-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.017	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035

Client Sample ID : BR11-1SB015[15] Laboratory Sample ID : 300453-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.011	J	0.16	0.0086	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.49	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB015[20] Laboratory Sample ID : 300453-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.21	J	1.1	0.072	mg/Kg	Dry	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	1.9	Y,Z	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	8.5		5.7	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB015[25]

Laboratory Sample ID : 300453-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.013	J	0.16	0.0085	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.5	Y,Z	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	12		5.8	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB015[30]

Laboratory Sample ID : 300453-008

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.028	J	0.18	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.1	Y,Z	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	8.7		5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB015[35]

Laboratory Sample ID : 300453-009

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.032	J	0.23	0.015	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.0	J,Y,Z	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	2.8	J	6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB015[40]

Laboratory Sample ID : 300453-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	0.86	J,Y,Z	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB015[45]

Laboratory Sample ID : 300453-011

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.025	J	0.18	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.39	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : DUP06052018-03

Laboratory Sample ID : 300453-012

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.027	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.42	J,Y	1.2	0.38	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB017[W]

Laboratory Sample ID : 300453-013

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	33	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	470	Y,Z	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	360	Y,Z	300	96	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Bunker C C12-C40	1,600		300		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Naphthalene	0.2		0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C
Phenanthrene	0.05	J	0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C

Client Sample ID : BR11-1SB015[W]

Laboratory Sample ID : 300453-014

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	29	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	130	Y	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	120	J,Y,Z	300	96	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Bunker C C12-C40	520	Y	300		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Naphthalene	0.04	J	0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C
Phenanthrene	0.03	J	0.1	0.02	ug/L	As Recd	1.000	EPA 8270C-SIM	EPA 3520C

Client Sample ID : BR11-1SB016[3]

Laboratory Sample ID : 300453-015

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	0.78	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB016[5]

Laboratory Sample ID : 300453-016

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.020	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.5	Y,Z	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB016[7]

Laboratory Sample ID : 300453-017

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.024	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.8	Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB016[10]

Laboratory Sample ID : 300453-018

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.27	Y	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	23	Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	3.5	J,Y	6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB016[15]

Laboratory Sample ID : 300453-019

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	5.7	Y	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	290		1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	34		6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB016[20]

Laboratory Sample ID : 300453-020

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.18	J	1.1	0.072	mg/Kg	Dry	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	0.82	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	2.5	J	5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB016[25]

Laboratory Sample ID : 300453-021

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.013	J	0.18	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.5	Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	3.3	J	5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB016[30]

Laboratory Sample ID : 300453-022

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.028	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	4.0	Y,Z	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	14		5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB016[35]

Laboratory Sample ID : 300453-023

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.023	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.58	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : DUP06062018-01

Laboratory Sample ID : 300453-024

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.64	Y	0.18	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	120		1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	16		5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB018[3]RB018[5]

Laboratory Sample ID : 300453-025

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	22	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	18	J,Y	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C

J = Estimated value
Y = Sample exhibits chromatographic pattern which does not resemble standard
Z = Sample exhibits unknown single peak or peaks

Laboratory Job Number 300453

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Water

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01		
Matrix:	Water	Sampled:	06/06/18
Units:	ug/L	Received:	06/06/18
Diln Fac:	1.000	Analyzed:	06/11/18
Batch#:	260388		

Field ID: BR11-1SB017[W] Lab ID: 300453-013
 Type: SAMPLE

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	33 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.11	EPA 8021B
Ethylbenzene	ND	0.50	0.10	EPA 8021B
m,p-Xylenes	ND	0.50	0.13	EPA 8021B
o-Xylene	ND	0.50	0.14	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	98	79-120	EPA 8015B
Bromofluorobenzene (PID)	90	71-127	EPA 8021B

Field ID: BR11-1SB015[W] Lab ID: 300453-014
 Type: SAMPLE

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	29 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.11	EPA 8021B
Ethylbenzene	ND	0.50	0.10	EPA 8021B
m,p-Xylenes	ND	0.50	0.13	EPA 8021B
o-Xylene	ND	0.50	0.14	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	97	79-120	EPA 8015B
Bromofluorobenzene (PID)	87	71-127	EPA 8021B

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01		
Matrix:	Water	Sampled:	06/06/18
Units:	ug/L	Received:	06/06/18
Diln Fac:	1.000	Analyzed:	06/11/18
Batch#:	260388		

Field ID: BR11-1SB018[3]RB018[5] Lab ID: 300453-025
 Type: SAMPLE

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	22 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.11	EPA 8021B
Ethylbenzene	ND	0.50	0.10	EPA 8021B
m,p-Xylenes	ND	0.50	0.13	EPA 8021B
o-Xylene	ND	0.50	0.14	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	96	79-120	EPA 8015B
Bromofluorobenzene (PID)	87	71-127	EPA 8021B

Type: BLANK Lab ID: QC935447

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	21 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.10	EPA 8021B
Ethylbenzene	ND	0.50	0.10	EPA 8021B
m,p-Xylenes	ND	0.50	0.13	EPA 8021B
o-Xylene	ND	0.50	0.14	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	90	79-120	EPA 8015B
Bromofluorobenzene (PID)	96	71-127	EPA 8021B

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC935442	Batch#:	260388
Matrix:	Water	Analyzed:	06/11/18
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,076	108	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	79-120

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8021B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Batch#:	260388

Type: BS Analyzed: 06/11/18
 Lab ID: QC935443

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	18.42	92	80-120
Toluene	20.00	17.80	89	80-120
Ethylbenzene	20.00	17.62	88	79-120
m,p-Xylenes	20.00	17.69	88	79-120
o-Xylene	20.00	18.00	90	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	91	71-127

Type: BSD Analyzed: 06/12/18
 Lab ID: QC935444

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	17.80	89	80-120	3	20
Toluene	20.00	17.09	85	80-120	4	20
Ethylbenzene	20.00	16.70	83	79-120	5	20
m,p-Xylenes	20.00	17.06	85	79-120	4	20
o-Xylene	20.00	17.52	88	80-120	3	20

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	95	71-127

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	260388
MSS Lab ID:	300519-003	Sampled:	06/08/18
Matrix:	Water	Received:	06/08/18
Units:	ug/L	Analyzed:	06/12/18
Diln Fac:	1.000		

Type: MS Lab ID: QC935445

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	48.53	2,000	1,757	85	80-120

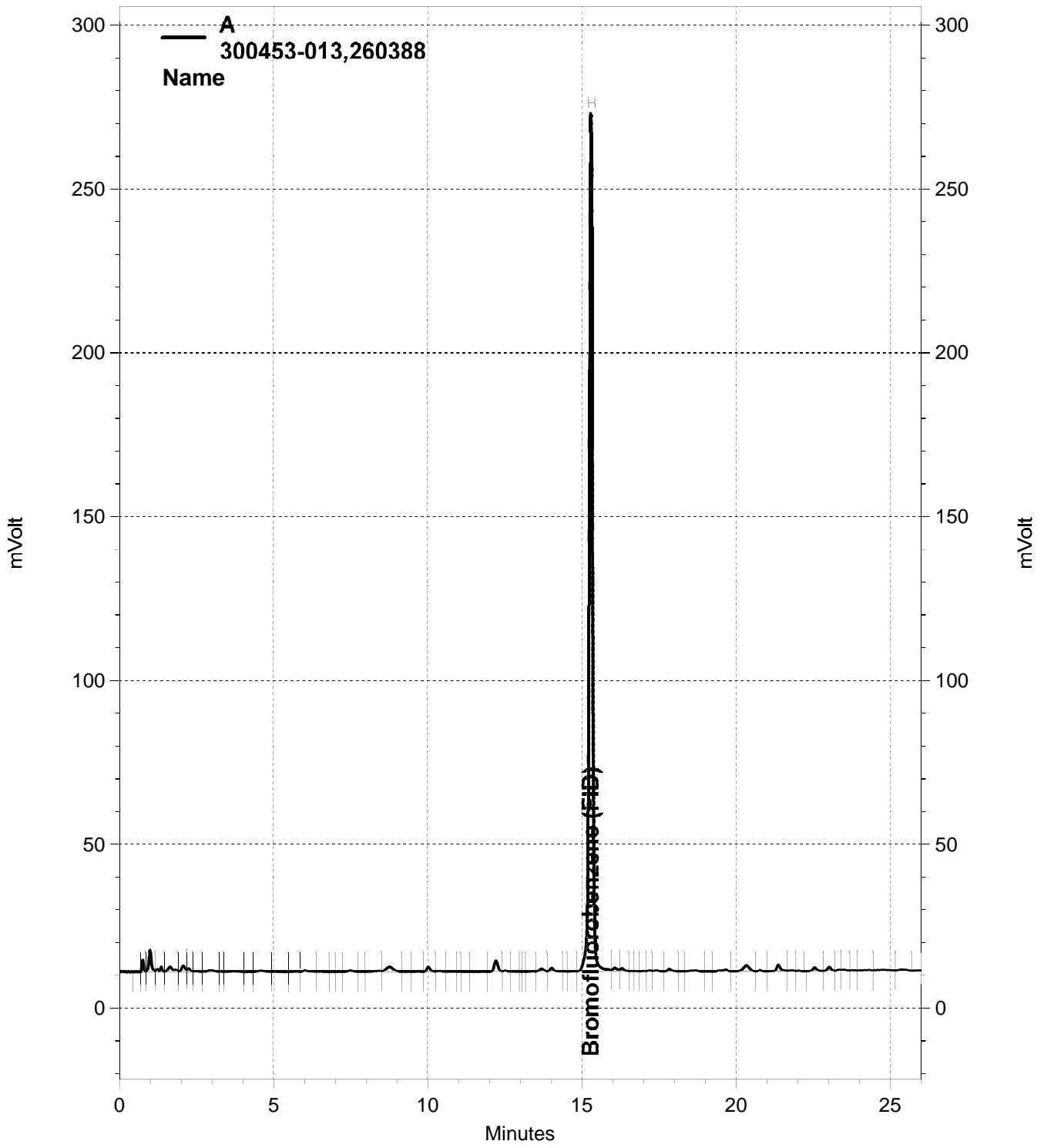
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	79-120

Type: MSD Lab ID: QC935446

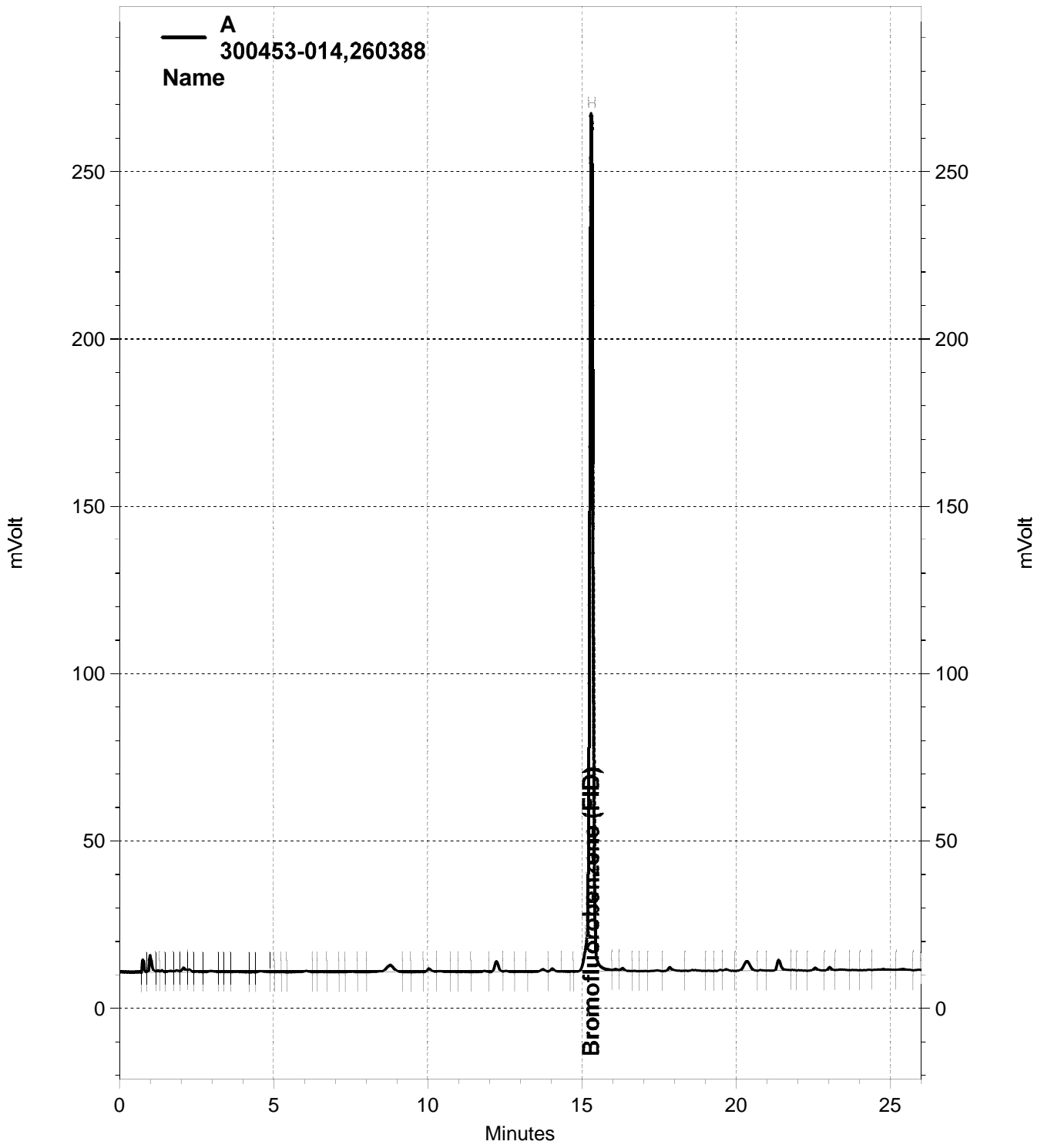
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,792	87	80-120	2	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	79-120

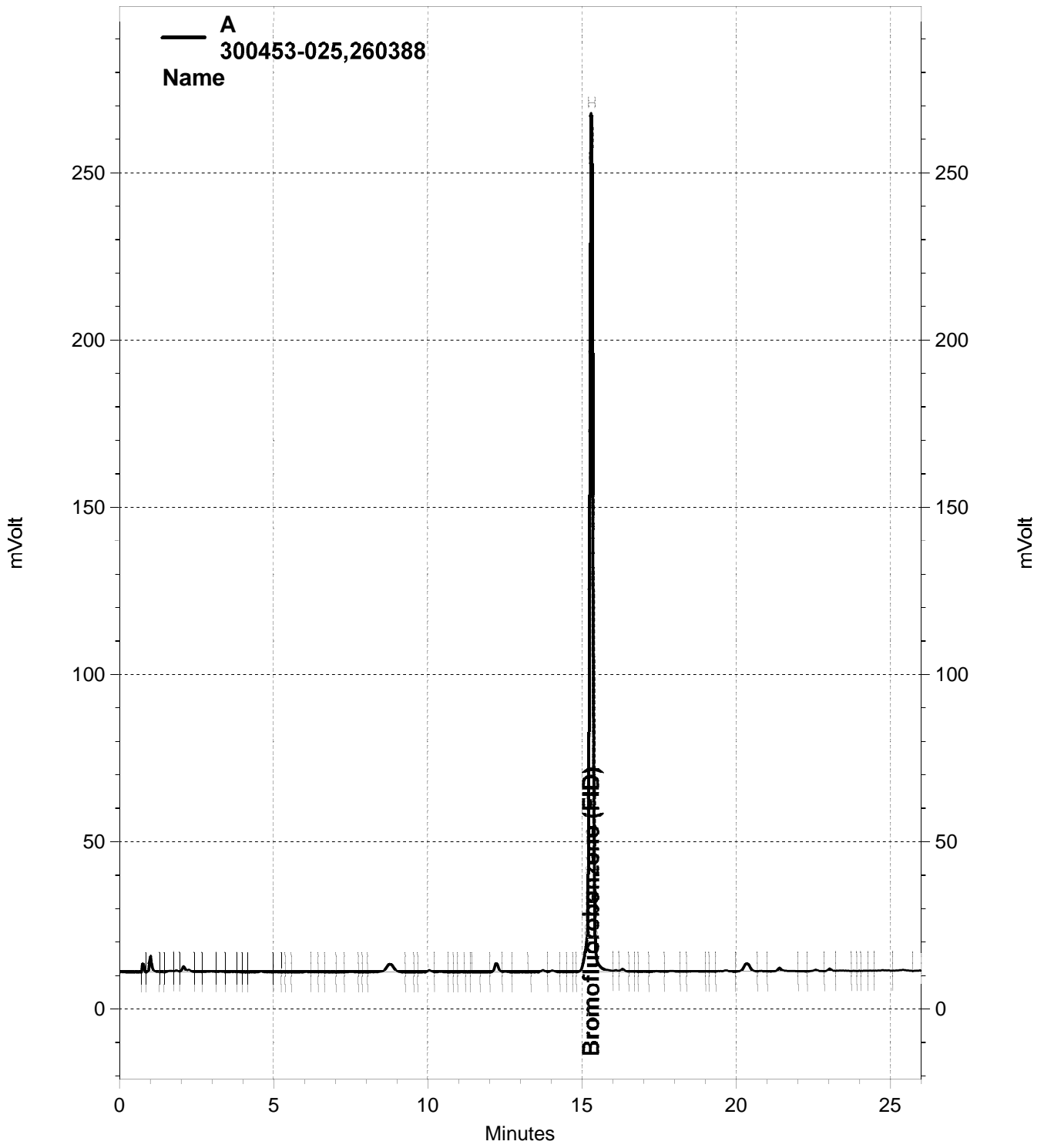
RPD= Relative Percent Difference



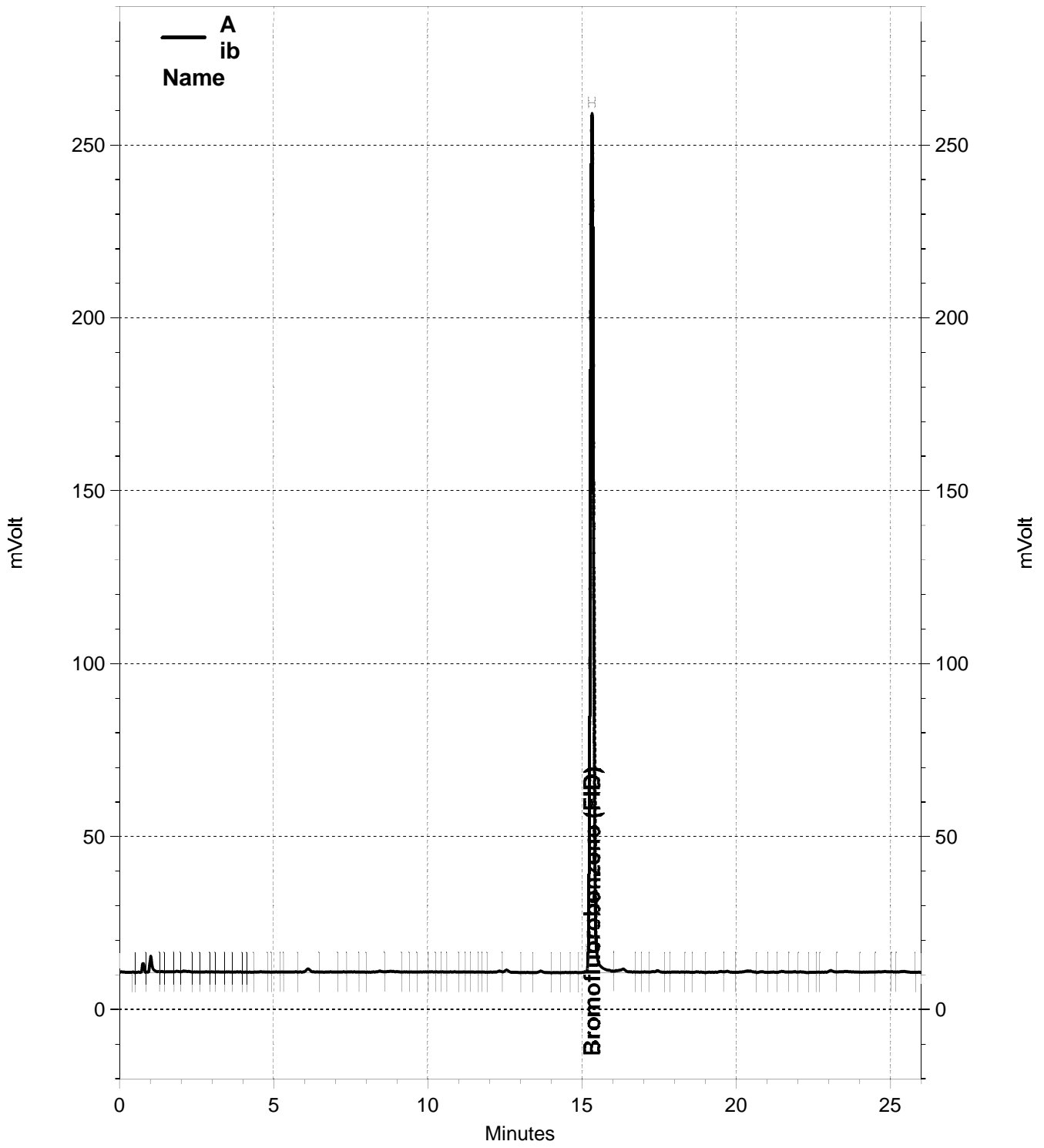
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\162-016, A



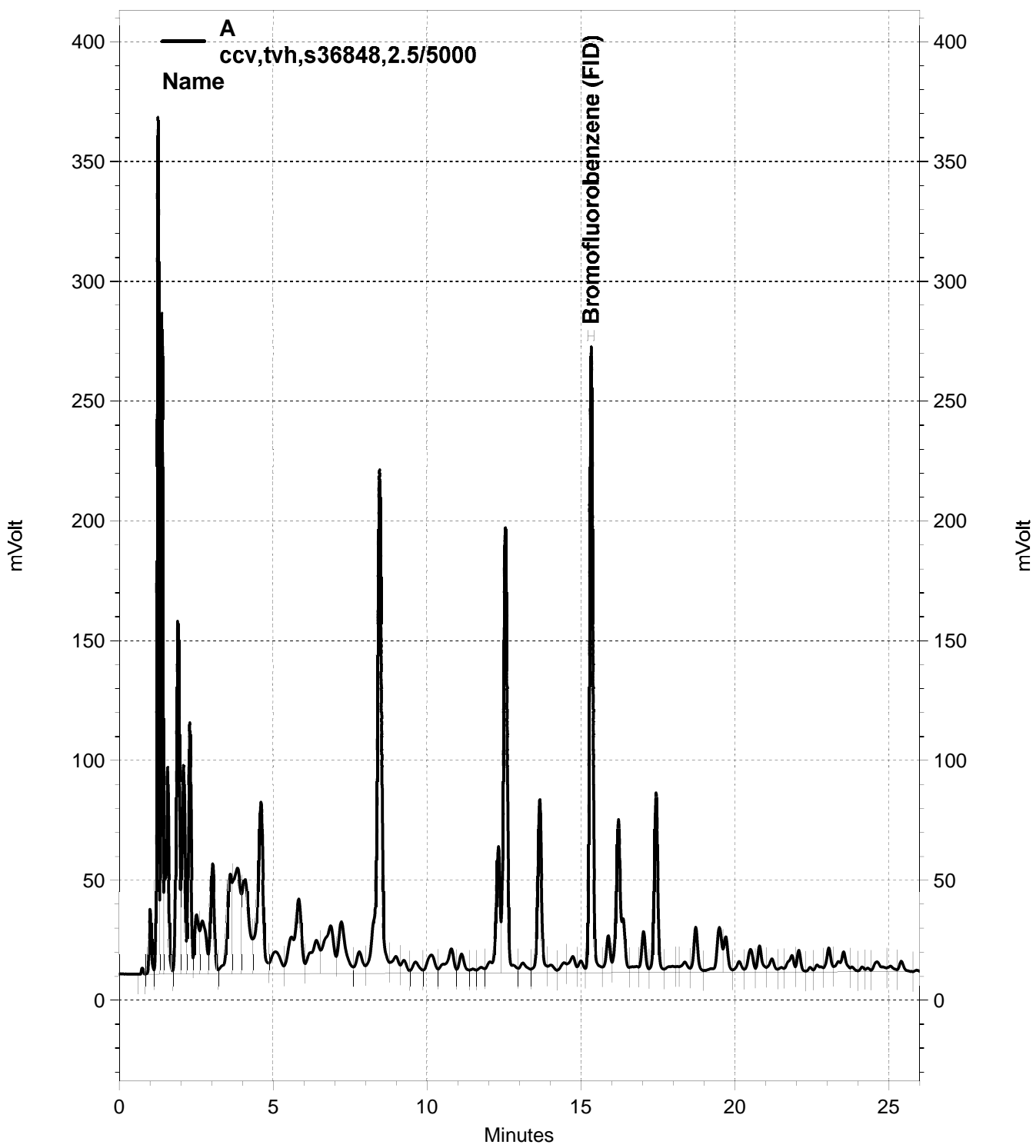
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\162-017, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\162-018, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\162-006, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\162-002, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 300453 GCVOA Water: EPA 8021B

Inst : GC07
 Calnum : 328176634001
 Units : ng

Name : MBTXE_122
 Date : 02-MAY-2018 22:56
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_012	328176634012	BTXE_1	02-MAY-2018 22:56	S35889 (1000X), S36233 (5000X)
L2	122_013	328176634013	MBTXE_2	02-MAY-2018 23:34	S36294 (1250X), S36233 (5000X)
L3	122_014	328176634014	MBTXE_3	03-MAY-2018 00:12	S36294 (500X), S36233 (5000X)
L4	122_015	328176634015	MBTXE_4	03-MAY-2018 00:50	S36294 (125X), S36233 (5000X)
L5	122_016	328176634016	MBTXE_5	03-MAY-2018 01:28	S35887 (1000X), S36233 (5000X)
L6	122_017	328176634017	MBTXE_6	03-MAY-2018 02:07	S35887 (500X), S36233 (5000X)
L7	122_018	328176634018	MBTXE_7	03-MAY-2018 02:45	S35887 (250X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzene	B	32661	28967	33865	33045	35530	36077	35842	AVRG		2.97E-5		33713	7	0.995	20	
Toluene	B	35850	27715	30543	29993	32299	32713	32236	AVRG		3.16E-5		31621	8	0.995	20	
Ethylbenzene	B	33834	24137	26923	25828	27555	27919	26928	AVRG		3.62E-5		27589	11	0.995	20	
m,p-Xylenes	B	45518	30761	32393	32140	33095	33659	33242	AVRG		2.91E-5		34401	15	0.995	20	
o-Xylene	B	31247	24358	27258	27337	28898	29291	28661	AVRG		3.55E-5		28150	8	0.995	20	
Bromofluorobenzene (PID)	B	25488	25061	24534	24811	25891	26143	26329	AVRG		3.93E-5		25465	3	0.995	20	
Benzene	C	1703.2	1706.2	2146.8	2247.1	2460.9	2462.7	2389.3	AVRG		4.63E-4		2159.5	15	0.995	20	
Toluene	C	1753.6	1588.0	1890.6	2016.8	2223.6	2231.7	2170.5	AVRG		5.05E-4		1982.1	13	0.995	20	
Ethylbenzene	C	1289.2	1252.0	1570.5	1706.8	1871.4	1900.9	1843.8	AVRG		6.12E-4		1633.5	17	0.995	20	
m,p-Xylenes	C	2560.8	1850.1	2117.0	2173.8	2306.7	2311.8	2234.5	AVRG		4.50E-4		2222.1	10	0.995	20	
o-Xylene	C	2204.0	1604.0	1849.9	1872.5	1984.5	1988.5	1930.9	AVRG		5.21E-4		1919.2	9	0.995	20	
Bromofluorobenzene (PID)	C	1775.8	1741.0	1701.0	1707.9	1749.9	1734.9	1719.7	AVRG		5.77E-4		1732.9	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Benzene	B	2.5000	-3	10.000	-14	25.000	0	100.00	-2	500.00	5	1000.0	7	2000.0	6
Toluene	B	2.5000	13	10.000	-12	25.000	-3	100.00	-5	500.00	2	1000.0	3	2000.0	2
Ethylbenzene	B	2.5000	23	10.000	-13	25.000	-2	100.00	-6	500.00	0	1000.0	1	2000.0	-2
m,p-Xylenes	B	2.5000	32	10.000	-11	25.000	-6	100.00	-7	500.00	-4	1000.0	-2	2000.0	-3
o-Xylene	B	2.5000	11	10.000	-13	25.000	-3	100.00	-3	500.00	3	1000.0	4	2000.0	2
Bromofluorobenzene (PID)	B	900.00	0	900.00	-2	900.00	-4	900.00	-3	900.00	2	900.00	3	900.00	3
Benzene	C	2.5000	-21	10.000	-21	25.000	-1	100.00	4	500.00	14	1000.0	14	2000.0	11
Toluene	C	2.5000	-12	10.000	-20	25.000	-5	100.00	2	500.00	12	1000.0	13	2000.0	10
Ethylbenzene	C	2.5000	-21	10.000	-23	25.000	-4	100.00	4	500.00	15	1000.0	16	2000.0	13
m,p-Xylenes	C	2.5000	15	10.000	-17	25.000	-5	100.00	-2	500.00	4	1000.0	4	2000.0	1
o-Xylene	C	2.5000	15	10.000	-16	25.000	-4	100.00	-2	500.00	3	1000.0	4	2000.0	1
Bromofluorobenzene (PID)	C	900.00	2	900.00	0	900.00	-2	900.00	-1	900.00	1	900.00	0	900.00	-1

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300453 GCVOA Water
EPA 8021B

Inst : GC07
Calnum : 328176634001

Name : MBTXE_122
Cal Date : 02-MAY-2018

ICV 328176634020 (122_020 03-MAY-2018) stds: S36861 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	100.0	95.41	ng	-5	15	
Toluene	B	100.0	92.97	ng	-7	15	
Ethylbenzene	B	100.0	92.82	ng	-7	15	
m,p-Xylenes	B	200.0	181.8	ng	-9	15	
o-Xylene	B	100.0	98.35	ng	-2	15	
Benzene	C	100.0	104.6	ng	5	15	
Toluene	C	100.0	102.9	ng	3	15	
Ethylbenzene	C	100.0	108.3	ng	8	15	
m,p-Xylenes	C	200.0	196.8	ng	-2	15	
o-Xylene	C	100.0	101.6	ng	2	15	

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

ENTHALPY INITIAL CALIBRATION FOR 300453 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 328184879001
 Units : ng

Name : TVH_129
 Date : 08-MAY-2018 21:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	128_017	328184879017	TVH_14	08-MAY-2018 21:46	S36893 (1000X), S36233 (5000X)
L2	128_018	328184879018	TVH_15	08-MAY-2018 22:25	S36892 (1000X), S36233 (5000X)
L3	128_019	328184879019	TVH_16	08-MAY-2018 23:03	S36891 (1000X), S36233 (5000X)
L4	128_020	328184879020	TVH_17	08-MAY-2018 23:42	S36890 (2000X), S36233 (5000X)
L5	128_021	328184879021	TVH_18	09-MAY-2018 00:20	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2551.5	2151.4	1868.7	2079.4	2113.6	AVRG		4.64E-4		2152.9	12	0.995	20	
Bromofluorobenzene (FID)	A	2209.5	2170.3	2197.1	2287.3	2435.2	AVRG		4.43E-4		2259.9	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	19	2500.0	0	10000	-13	25000	-3	50000	-2
Bromofluorobenzene (FID)	A	900.00	-2	900.00	-4	900.00	-3	900.00	1	900.00	8

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300453 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 328184879001

Name : TVH_129
Cal Date : 08-MAY-2018

ICV 328184879024 (128_024 09-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8973	ng	-10	15	

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328233842002 File : 162_002 Time : 11-JUN-2018 10:01
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2359.5	5000	5480	ng	10	15	
Bromofluorobenzene (FID)	A	2259.9	2115.4	900.0	842.4	ng	-6	15	

Analyst: CJN

Date: 06/12/18

Reviewer: EAH

Date: 06/12/18

ENTHALPY SPIKE USER REPORT FOR 300453 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC935442 IDF : 1.0
 Seqnum : 328233842004.4 File : 162_004 Time : 11-JUN-2018 11:17
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2315.7	5000	5378	ng	8	15	u
Bromofluorobenzene (FID)	A	2259.9	2094.6	900.0	834.2	ng	-7	15	u

Analyst: JM2 Date: 06/12/18 Reviewer: EAH Date: 06/14/18

u=use

ENTHALPY SPIKE USER REPORT FOR 300453 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : QC935443 IDF : 1.0
 Seqnum : 328233842012.4 File : 162_012 Time : 11-JUN-2018 17:07
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	B	33713	31052	100.0	92.11	ng	-8	15	u
Benzene	C	2159.5	1876.2	100.0	86.88	ng	-13	15	
Toluene	B	31621	28139	100.0	88.99	ng	-11	15	u
Toluene	C	1982.1	1692.8	100.0	85.40	ng	-15	15	
Ethylbenzene	B	27589	24302	100.0	88.09	ng	-12	15	u
Ethylbenzene	C	1633.5	1443.5	100.0	88.37	ng	-12	15	
m,p-Xylenes	B	34401	30433	100.0	88.47	ng	-12	15	u
m,p-Xylenes	C	2222.1	1854.0	100.0	83.43	ng	-17	15	c- ***
o-Xylene	B	28150	25336	100.0	90.01	ng	-10	15	u
o-Xylene	C	1919.2	1592.8	100.0	82.99	ng	-17	15	c- ***
Bromofluorobenzene (PID)	B	25465	23144	900.0	818.0	ng	-9	15	u
Bromofluorobenzene (PID)	C	1732.9	1446.5	900.0	751.3	ng	-17	15	c-

Analyst: JM2 Date: 06/12/18 Reviewer: EAH Date: 06/14/18

--low bias c=CCV u=use

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328233842013 File : 162_013 Time : 11-JUN-2018 17:45
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2018.8	10000	9377	ng	-6	15	
Bromofluorobenzene (FID)	A	2259.9	2131.8	900.0	849.0	ng	-6	15	

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328233842026 File : 162_026 Time : 12-JUN-2018 02:03
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	1881.7	15000	13110	ng	-13	15	
Bromofluorobenzene (FID)	A	2259.9	2165.9	900.0	862.6	ng	-4	15	

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328233842028 File : 162_028 Time : 12-JUN-2018 03:20
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (666.7X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	B	33713	30838	150.0	137.2	ng	-9	15	
Toluene	B	31621	27710	150.0	131.4	ng	-12	15	
Ethylbenzene	B	27589	23396	150.0	127.2	ng	-15	15	
m,p-Xylenes	B	34401	29746	150.0	129.7	ng	-14	15	
o-Xylene	B	28150	25288	150.0	134.7	ng	-10	15	
Bromofluorobenzene (PID)	B	25465	24744	900.0	874.5	ng	-3	15	
Benzene	C	2159.5	1963.0	150.0	136.4	ng	-9	15	
Toluene	C	1982.1	1744.1	150.0	132.0	ng	-12	15	
Ethylbenzene	C	1633.5	1458.9	150.0	134.0	ng	-11	15	
m,p-Xylenes	C	2222.1	1864.1	150.0	125.8	ng	-16	15	c- ***
o-Xylene	C	1919.2	1642.8	150.0	128.4	ng	-14	15	
Bromofluorobenzene (PID)	C	1732.9	1574.7	900.0	817.8	ng	-9	15	

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

--low bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328233842033 File : 162_033 Time : 12-JUN-2018 06:31
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	1856.6	10000	8624	ng	-14	15	
Bromofluorobenzene (FID)	A	2259.9	2152.6	900.0	857.3	ng	-5	15	

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328176634

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/02/18 15:54
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	122_001	IB	CALIB			05/02/18 15:54	1.0	1
002	122_002	ICAL	TVH_14			05/02/18 16:33	1.0	2 1
003	122_003	ICAL	TVH_15			05/02/18 17:11	1.0	3 1
004	122_004	ICAL	TVH_16			05/02/18 17:49	1.0	4 1
005	122_005	ICAL	TVH_17			05/02/18 18:28	1.0	5 1
006	122_006	ICAL	TVH_18			05/02/18 19:06	1.0	5 1
007	122_007	IB				05/02/18 19:44	1.0	1
008	122_008	ICV	TVH			05/02/18 20:23	1.0	6 1
009	122_009	X	ICV			05/02/18 21:00	1.0	6 1
010	122_010	CMARKER				05/02/18 21:39	1.0	7 1
011	122_011	IB	CALIB			05/02/18 22:17	1.0	1
012	122_012	ICAL	BTXE_1			05/02/18 22:56	1.0	8 1
013	122_013	ICAL	MBTXE_2			05/02/18 23:34	1.0	9 1
014	122_014	ICAL	MBTXE_3			05/03/18 00:12	1.0	9 1
015	122_015	ICAL	MBTXE_4			05/03/18 00:50	1.0	9 1
016	122_016	ICAL	MBTXE_5			05/03/18 01:28	1.0	10 1
017	122_017	ICAL	MBTXE_6			05/03/18 02:07	1.0	10 1
018	122_018	ICAL	MBTXE_7			05/03/18 02:45	1.0	10 1
019	122_019	IB				05/03/18 03:23	1.0	1
020	122_020	ICV	MBTXE			05/03/18 04:01	1.0	11 1
021	122_021	X	ICV			05/03/18 04:40	1.0	11 1

PAW 05/04/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 21.

Reviewed by: PAW Date: 05/04/18

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S35319 8=S35889 9=S36294 10=S35887 11=S36861

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328184879

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/08/18 09:19
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	128_001	X	CMARKER			05/08/18 09:19	1.0	1 2	
002	128_002	CCV	TVH			05/08/18 09:58	1.0	3 2	
003	128_003	CCV/LCS	QC931207	Water	259308	05/08/18 10:36	1.0	4 2	
004	128_004	CCV	TVH			05/08/18 11:15	1.0	3 2	
005	128_005	CCV	BTXE			05/08/18 11:53	1.0	4 2	
006	128_006	BLANK	QC931206	Water	259308	05/08/18 12:31	1.0	2	
007	128_007	MSS	299300-001	Water	259308	05/08/18 15:18	1.0	2	headspace > 1 mL
008	128_008	CCV	BTXE			05/08/18 15:57	1.0	4 2	
011	128_011	IB				05/08/18 17:57	1.0	2	
012	128_012	IB				05/08/18 18:35	1.0	2	
013	128_013	IB				05/08/18 19:13	1.0	2	
014	128_014	IB				05/08/18 19:51	1.0	2	
015	128_015	IB				05/08/18 20:30	1.0	2	
016	128_016	IB	CALIB			05/08/18 21:08	1.0	2	
017	128_017	ICAL	TVH_14			05/08/18 21:46	1.0	5 2	
018	128_018	ICAL	TVH_15			05/08/18 22:25	1.0	6 2	
019	128_019	ICAL	TVH_16			05/08/18 23:03	1.0	7 2	
020	128_020	ICAL	TVH_17			05/08/18 23:42	1.0	8 2	
021	128_021	ICAL	TVH_18			05/09/18 00:20	1.0	8 2	
022	128_022	IB				05/09/18 00:58	1.0	2	
023	128_023	X	ICV			05/09/18 01:37	1.0	9 2	
024	128_024	ICV	TVH			05/09/18 02:15	1.0	9 2	
025	128_025	CMARKER				05/09/18 02:54	1.0	1 2	

Reviewed by: EAH Date: 06/19/18

Standards used: 1=S35319 2=S36233 3=S36103 4=S36185 5=S36893 6=S36892 7=S36891 8=S36890 9=S36894

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328233842

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 06/11/18 09:22
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	162_001	X	CMARKER				06/11/18 09:22	1.0	1 2	
002	162_002	CCV	TVH				06/11/18 10:01	1.0	3 2	
003	162_003	CCV/BS	QC935414		Miscell.	260381	06/11/18 10:39	1.0	4 2	
004	162_004	CCV/LCS	QC935442		Water	260388	06/11/18 11:17	1.0	3 2	
005	162_005	BSD	QC935415		Miscell.	260381	06/11/18 11:55	1.0	4 2	
006	162_006	BLANK	QC935447		Water	260388	06/11/18 12:34	1.0	2	
007	162_007	BLANK	QC935416		Miscell.	260381	06/11/18 13:38	1.0	2	
008	162_008	PREPBLK	QC935417	M	Miscell.	260381	06/11/18 14:34	25.0	2	
009	162_009	SAMPLE	300400-001	M	Miscell.	260381	06/11/18 15:12	5000	2	
010	162_010	SAMPLE	300400-002	M	Miscell.	260381	06/11/18 15:51	5000	2	
011	162_011	SAMPLE	300400-003	M	Miscell.	260381	06/11/18 16:29	5000	2	
012	162_012	CCV/BS	QC935443		Water	260388	06/11/18 17:07	1.0	4 2	
013	162_013	CCV	TVH				06/11/18 17:45	1.0	3 2	
014	162_014	X	CMARKER				06/11/18 18:24	1.0	1 2	
015	162_015	SAMPLE	300507-001		Water	260388	06/11/18 19:02	1.0	2	
016	162_016	SAMPLE	300453-013		Water	260388	06/11/18 19:40	1.0	2	
017	162_017	SAMPLE	300453-014		Water	260388	06/11/18 20:18	1.0	2	
018	162_018	SAMPLE	300453-025		Water	260388	06/11/18 20:57	1.0	2	
019	162_019	SAMPLE	300451-001		Water	260388	06/11/18 21:35	1.0	2	
020	162_020	SAMPLE	300451-002		Water	260388	06/11/18 22:14	1.0	2	1:MTBE=1500
021	162_021	SAMPLE	300451-003		Water	260388	06/11/18 22:52	1.0	2	
022	162_022	SAMPLE	300451-004		Water	260388	06/11/18 23:30	5.0	2	diluted (odor), 8:GAS:7-12=90000
023	162_023	SAMPLE	300451-005		Water	260388	06/12/18 00:08	1.0	2	
024	162_024	MSS	300519-003		Water	260388	06/12/18 00:47	1.0	2	
025	162_025	BSD	QC935444		Water	260388	06/12/18 01:25	1.0	4 2	
026	162_026	CCV	TVH				06/12/18 02:03	1.0	3 2	
027	162_027	X	CMARKER				06/12/18 02:41	1.0	1 2	
028	162_028	CCV	BTXE				06/12/18 03:20	1.0	4 2	
029	162_029	SAMPLE	300471-001		Water	260388	06/12/18 03:58	1.0	2	headspace > 1 mL
030	162_030	SAMPLE	300521-001		Water	260388	06/12/18 04:36	1.0	2	
031	162_031	MS	QC935445		Water	260388	06/12/18 05:14	1.0	3 2	
032	162_032	MSD	QC935446		Water	260388	06/12/18 05:52	1.0	3 2	
033	162_033	CCV	TVH				06/12/18 06:31	1.0	3 2	
034	162_034	X	CMARKER				06/12/18 07:09	1.0	1 2	

CJN 06/12/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 34.

Reviewed by: CJN Date: 06/12/18

Standards used: 1=S36859 2=S37192 3=S36848 4=S36185

TITLE	Sample	ID	Weight (g)	PROJECT	NaHSO ₄	Comments: Initials	DATE
Continued from page							
300453-7		A	38.29 - 30.871 - 0.2 = 7.22		No	JM2 6/8/18	B-6
↓ -8		↓	37.81 - 30.734 - 0.2 = 6.88		↓	↓	↓
Prep Blk		-	MeOH		↓	PAW 6/10/18	B-8
5 300519-2		A	↓ ^{PAW} 280/5000 5/5000 10/5000		↓	↓	↓
300497-34		A	0.95		No	JM2 6/11/18 ^{Comp of 497-32, 455-8}	B-6
300500-1		B	1.08				
↓ -2		C	0.91				
300490-1		A	1.09				
10 300497-34 MS		↓	0.99			Comp of 497-32, 455-8	
↓ -34 MSD		↓	0.91			↓	
300400-1		A	MeOH 1/5000				
↓ -2		↓	↓				
↓ -3		↓	↓				
15 300453-3		B	38.21 - 30.742 - 0.2 = 7.27				
↓ -4		↓	38.59 - 30.777 - 0.2 = 7.61				
↓ -6		↓	36.84 - 30.689 - 0.2 = 5.95				
↓ -8		↓	37.57 - 30.866 - 0.2 = 6.50				
↓ -9		A	36.21 - 30.686 - 0.2 = 5.32				
20 ↓ -10		↓	38.08 - 30.764 - 0.2 = 7.12				
↓ -11		↓	37.87 - 30.757 - 0.2 = 6.91				
↓ -12		↓	38.40 - 30.942 - 0.2 = 7.26				
↓ -15		↓	38.18 - 30.599 - 0.2 = 7.38				
25 ↓ -16		↓	38.70 - 30.778 - 0.2 = 7.72				
↓ -17		↓	38.26 - 30.708 - 0.2 = 7.35				
↓ -18		↓	38.08 - 30.859 - 0.2 = 7.02				
↓ -19		↓	37.89 - 30.351 - 0.2 = 7.34				
↓ -20		↓	38.03 - 30.660 - 0.2 = 7.17				
↓ -21		↓	37.91 - 30.990 - 0.2 = 6.72				
30 ↓ -22		↓	38.97 - 30.893 - 0.2 = 7.38				
↓ -23		↓	38.02 - 30.846 - 0.2 = 6.97				
↓ -24		↓	37.86 - 30.979 - 0.2 = 6.68				
300412-21		E	0.92				
300490-1 MS		A	0.97				
35 ↓ -1 MSD		↓	1.06				
300565-1		A	0.95				
300540-2		A	1.05			Comp containers C+D	
300543-1		A	0.98				
300559-3		A	1.03			Comp 559 - (1,2)	
40 300542-5		↓	1.00			542 - (1-4)	
↓ -10		↓	1.02			↓ - (6-9)	
↓ -15		↓	1.02			↓ - (11-14)	
↓ -18		↓	1.09			↓ - (16,17)	
300574-4		↓	0.96			544 - (1-3)	
45 ↓ -8		↓	1.02			↓ - (5-7)	
SIGNATURE					DATE		
DISCLOSED TO AND UNDERSTOOD BY				DATE		PROPRIETARY INFORMATION	

Sample	ID	Weight (g)	MeOH Lot #	MeOH vol. (ml)	Bal ID	Pipette Lot	Comments & Initials
Prep Blk	-	5.00	173605TF	5.0	B-8	06-15-2017	PAW 6/10/18
300519-2	A	0.53	|	|	B-6	|	↓ oil layer on water JHZ for PAW 6/11/18
300400-1	A	0.98	|	|	|	|	JHZ 6/11/18
↓ -2	↓	0.94	|	|	|	|	|
↓ -3	↓	1.20	|	|	|	|	|
Prep Blk	-	5.00	|	|	|	|	|

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #: 06~15-2017

pH paper (<2.5SU), lot: 236315

pH paper (0-14SU), lot: 1080H1271

Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSVOA?	# unused vials remaining	RR #	DF	Comments	hold	due	used by	Initial/Date
300451-5	B	Y											JM 6/11/18
300471-1	A			Y					HM				
300453-13													
↓ -14													
↓ -25													
300496-1	E	Y		Y				1000/5000	HL, odor				JM 6/11/18
↓ -2	B												
↓ -3	C												
↓ -4	B			Y					HM				
↓ -5	C			↓					HL				
↓ -6	D												
↓ -8	E			Y					HM				
↓ -9	F			↓									
↓ -10	C												
300496-1	E	Y		Y					HL				CM 6/11/18
↓ -2	B	Y											
↓ -3	C	Y											
↓ -4	B	Y		Y					HM				
↓ -5	C	Y		Y					HL				
↓ -6	D	Y						200/5000	CL				
↓ -7	D	Y		Y				100/5000	CL				
↓ -8	E	Y		Y				1000/5000	HM //Foam				
↓ -9	F	Y		Y					HM				

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

06-15-2017
 5mL disposable pipettes, lot #: ~~06-2015~~ ^{JM2} pH paper (<2.5SU), lot: ~~230315~~ ^{6/6/18}
~~6/6/18~~ ^{JM2} pH paper (0-14SU), lot: ~~1050 H271~~

Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSVOA?	# unused vials remaining	RR #	DF	Comments	hold	due	Initial/Date
300408-1	A	Y		Y					HM			JM2 6/6/18
300441-1	D											
300444-1	B			Y								
300412-24	A			Y				1000/5000	HM, odor			
300441-1 MS D	D								HL			
↓ -1 MSD												
300363-1	B	Y										JM2 6/7/18
↓ -2												
↓ -3	C											
↓ -1 MS B	B											
↓ -1 MSD												
300451-1	B	Y										JM2 6/8/18
↓ -2												
↓ -3												
↓ -4												
↓ -5	C											
↓ -1 MS B	B											
↓ -1 MSD												
300507-1	A	Y										JM2 6/6/18
300519-3	B											
300521-1	L											
300519-3 MS B	B											
↓ -3 MS D												
300451-1	E	Y										JM2 6/6/18
↓ -2												
↓ -3												
↓ -4								1000/5000	odor			

REPORTING SUMMARY FOR 300453 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
300453-013	Gasoline C7-C12	GC07	A	06/11/18 19:40
300453-013	Benzene	GC07	C	06/11/18 19:40
300453-013	Toluene	GC07	C	06/11/18 19:40
300453-013	Ethylbenzene	GC07	C	06/11/18 19:40
300453-013	m,p-Xylenes	GC07	B	06/11/18 19:40
300453-013	o-Xylene	GC07	B	06/11/18 19:40
300453-013	Bromofluorobenzene (FID)	GC07	A	06/11/18 19:40
300453-013	Bromofluorobenzene (PID)	GC07	C	06/11/18 19:40
300453-014	Gasoline C7-C12	GC07	A	06/11/18 20:18
300453-014	Benzene	GC07	C	06/11/18 20:18
300453-014	Toluene	GC07	C	06/11/18 20:18
300453-014	Ethylbenzene	GC07	C	06/11/18 20:18
300453-014	m,p-Xylenes	GC07	B	06/11/18 20:18
300453-014	o-Xylene	GC07	B	06/11/18 20:18
300453-014	Bromofluorobenzene (FID)	GC07	A	06/11/18 20:18
300453-014	Bromofluorobenzene (PID)	GC07	C	06/11/18 20:18
300453-025	Gasoline C7-C12	GC07	A	06/11/18 20:57
300453-025	Benzene	GC07	C	06/11/18 20:57
300453-025	Toluene	GC07	C	06/11/18 20:57
300453-025	Ethylbenzene	GC07	C	06/11/18 20:57
300453-025	m,p-Xylenes	GC07	B	06/11/18 20:57
300453-025	o-Xylene	GC07	B	06/11/18 20:57
300453-025	Bromofluorobenzene (FID)	GC07	A	06/11/18 20:57
300453-025	Bromofluorobenzene (PID)	GC07	C	06/11/18 20:57
QC935447	Gasoline C7-C12	GC07	A	06/11/18 12:34
QC935447	Benzene	GC07	C	06/11/18 12:34
QC935447	Toluene	GC07	B	06/11/18 12:34
QC935447	Ethylbenzene	GC07	B	06/11/18 12:34
QC935447	m,p-Xylenes	GC07	B	06/11/18 12:34
QC935447	o-Xylene	GC07	B	06/11/18 12:34
QC935447	Bromofluorobenzene (FID)	GC07	A	06/11/18 12:34
QC935447	Bromofluorobenzene (PID)	GC07	B	06/11/18 12:34
QC935442	Gasoline C7-C12	GC07	A	06/11/18 11:17
QC935442	Bromofluorobenzene (FID)	GC07	A	06/11/18 11:17
QC935443	Benzene	GC07	B	06/11/18 17:07
QC935443	Toluene	GC07	B	06/11/18 17:07
QC935443	Ethylbenzene	GC07	B	06/11/18 17:07
QC935443	m,p-Xylenes	GC07	B	06/11/18 17:07
QC935443	o-Xylene	GC07	B	06/11/18 17:07
QC935443	Bromofluorobenzene (PID)	GC07	B	06/11/18 17:07
QC935444	Benzene	GC07	B	06/12/18 01:25
QC935444	Toluene	GC07	B	06/12/18 01:25
QC935444	Ethylbenzene	GC07	B	06/12/18 01:25
QC935444	m,p-Xylenes	GC07	B	06/12/18 01:25
QC935444	o-Xylene	GC07	B	06/12/18 01:25
QC935444	Bromofluorobenzene (PID)	GC07	B	06/12/18 01:25
QC935445	Gasoline C7-C12	GC07	A	06/12/18 05:14

REPORTING SUMMARY FOR 300453 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC935445	Bromofluorobenzene (FID)	GC07	A	06/12/18 05:14
QC935446	Gasoline C7-C12	GC07	A	06/12/18 05:52
QC935446	Bromofluorobenzene (FID)	GC07	A	06/12/18 05:52

Laboratory Job Number 300453

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Soil

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID:	BR11-1SB015[3]	Batch#:	260316
Type:	SAMPLE	Analyzed:	06/08/18
Lab ID:	300453-001	Prep:	EPA 5035
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.018 J	0.16	0.0087

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Field ID:	BR11-1SB015[5]	Batch#:	260316
Type:	SAMPLE	Analyzed:	06/09/18
Lab ID:	300453-002	Prep:	EPA 5035
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.19	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Field ID:	BR11-1SB015[7]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/11/18
Lab ID:	300453-003	Prep:	EPA 5035
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.024 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	125	64-134

Field ID:	BR11-1SB015[10]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/11/18
Lab ID:	300453-004	Prep:	EPA 5035
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.017 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID:	BR11-1SB015[15]	Batch#:	260316
Type:	SAMPLE	Analyzed:	06/09/18
Lab ID:	300453-005	Prep:	EPA 5035
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.011 J	0.16	0.0086

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Field ID:	BR11-1SB015[20]	Batch#:	260513
Type:	SAMPLE	Analyzed:	06/14/18
Lab ID:	300453-006	Prep:	EPA 5030B
Moisture:	13%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.21 J	1.1	0.072

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	64-134

Field ID:	BR11-1SB015[25]	Batch#:	260316
Type:	SAMPLE	Analyzed:	06/09/18
Lab ID:	300453-007	Prep:	EPA 5035
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.013 J	0.16	0.0085

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	64-134

Field ID:	BR11-1SB015[30]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/11/18
Lab ID:	300453-008	Prep:	EPA 5035
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.028 J	0.18	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	122	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID:	BR11-1SB015[35]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/11/18
Lab ID:	300453-009	Prep:	EPA 5035
Moisture:	17%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.032 J	0.23	0.015

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	64-134

Field ID:	BR11-1SB015[40]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/11/18
Lab ID:	300453-010	Prep:	EPA 5035
Moisture:	17%		

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	120	64-134

Field ID:	BR11-1SB015[45]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/11/18
Lab ID:	300453-011	Prep:	EPA 5035
Moisture:	18%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.025 J	0.18	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	124	64-134

Field ID:	DUP06052018-03	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/11/18
Lab ID:	300453-012	Prep:	EPA 5035
Moisture:	19%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.027 J	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID:	BR11-1SB016[3]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/11/18
Lab ID:	300453-015	Prep:	EPA 5035
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	64-134

Field ID:	BR11-1SB016[5]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/12/18
Lab ID:	300453-016	Prep:	EPA 5035
Moisture:	17%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	129	64-134

Field ID:	BR11-1SB016[7]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/12/18
Lab ID:	300453-017	Prep:	EPA 5035
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.024 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	122	64-134

Field ID:	BR11-1SB016[10]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/12/18
Lab ID:	300453-018	Prep:	EPA 5035
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.27 Y	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	123	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID:	BR11-1SB016[15]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/12/18
Lab ID:	300453-019	Prep:	EPA 5035
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	5.7 Y	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	178 *	64-134

Field ID:	BR11-1SB016[20]	Batch#:	260513
Type:	SAMPLE	Analyzed:	06/14/18
Lab ID:	300453-020	Prep:	EPA 5030B
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.18 J	1.1	0.072

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	64-134

Field ID:	BR11-1SB016[25]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/12/18
Lab ID:	300453-021	Prep:	EPA 5035
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.013 J	0.18	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	64-134

Field ID:	BR11-1SB016[30]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/12/18
Lab ID:	300453-022	Prep:	EPA 5035
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.028 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID:	BR11-1SB016[35]	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/12/18
Lab ID:	300453-023	Prep:	EPA 5035
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.023 J	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	64-134

Field ID:	DUP06062018-01	Batch#:	260383
Type:	SAMPLE	Analyzed:	06/12/18
Lab ID:	300453-024	Prep:	EPA 5035
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.64 Y	0.18	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	135 *	64-134

Type:	BLANK	Analyzed:	06/08/18
Lab ID:	QC935162	Prep:	EPA 5035
Batch#:	260316		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.033 J	0.20	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	64-134

Type:	BLANK	Analyzed:	06/11/18
Lab ID:	QC935426	Prep:	EPA 5035
Batch#:	260383		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.046 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	88	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Analysis:	EPA 8015B
Project#:	285830.02.01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Type:	BLANK	Analyzed:	06/14/18
Lab ID:	QC935977	Prep:	EPA 5035
Batch#:	260513		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.090 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	260316
Units:	mg/Kg	Analyzed:	06/08/18
Diln Fac:	1.000		

Type: BS Lab ID: QC935160

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.149	115	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

Type: BSD Lab ID: QC935161

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.070	107	80-120	7	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	64-134

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	300474-001	Batch#:	260316
Matrix:	Soil	Sampled:	06/01/18
Units:	mg/Kg	Received:	06/07/18
Basis:	as received	Analyzed:	06/09/18

Type: MS Lab ID: QC935226

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.08652	9.524	8.372	87	46-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Type: MSD Lab ID: QC935227

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.709	8.275	84	46-120	3	33

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-134

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC935423	Batch#:	260383
Matrix:	Soil	Analyzed:	06/11/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.101	110	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	64-134

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	260513
Units:	mg/Kg	Analyzed:	06/14/18
Diln Fac:	1.000		

Type: BS Lab ID: QC935975

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.110	111	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	64-134

Type: BSD Lab ID: QC935976

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.088	109	80-120	2	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	64-134

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	300561-006	Batch#:	260513
Matrix:	Soil	Sampled:	06/11/18
Units:	mg/Kg	Received:	06/11/18
Basis:	as received	Analyzed:	06/15/18

Type: MS Lab ID: QC935996

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1478	10.87	10.60	96	46-120

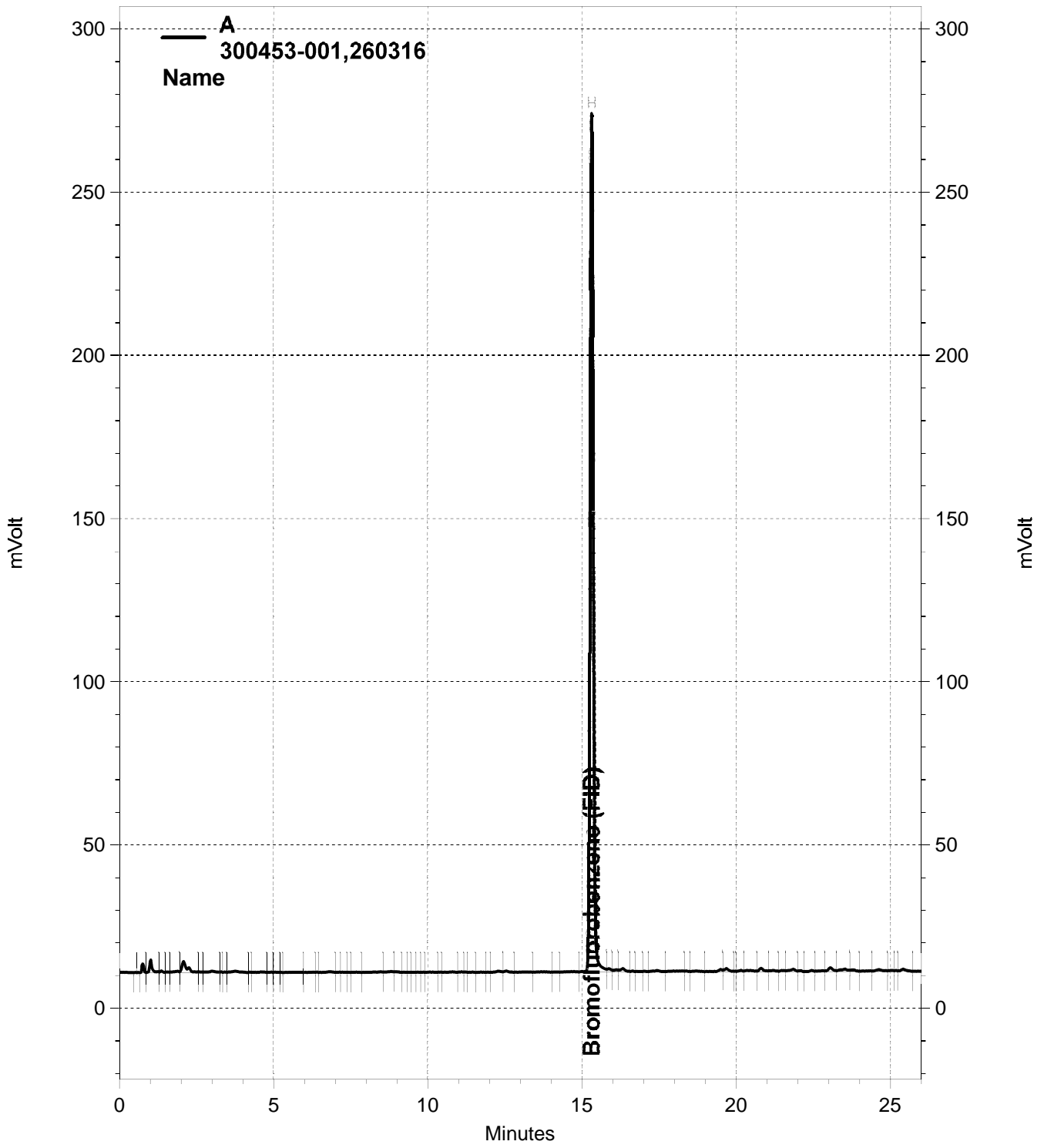
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	64-134

Type: MSD Lab ID: QC935997

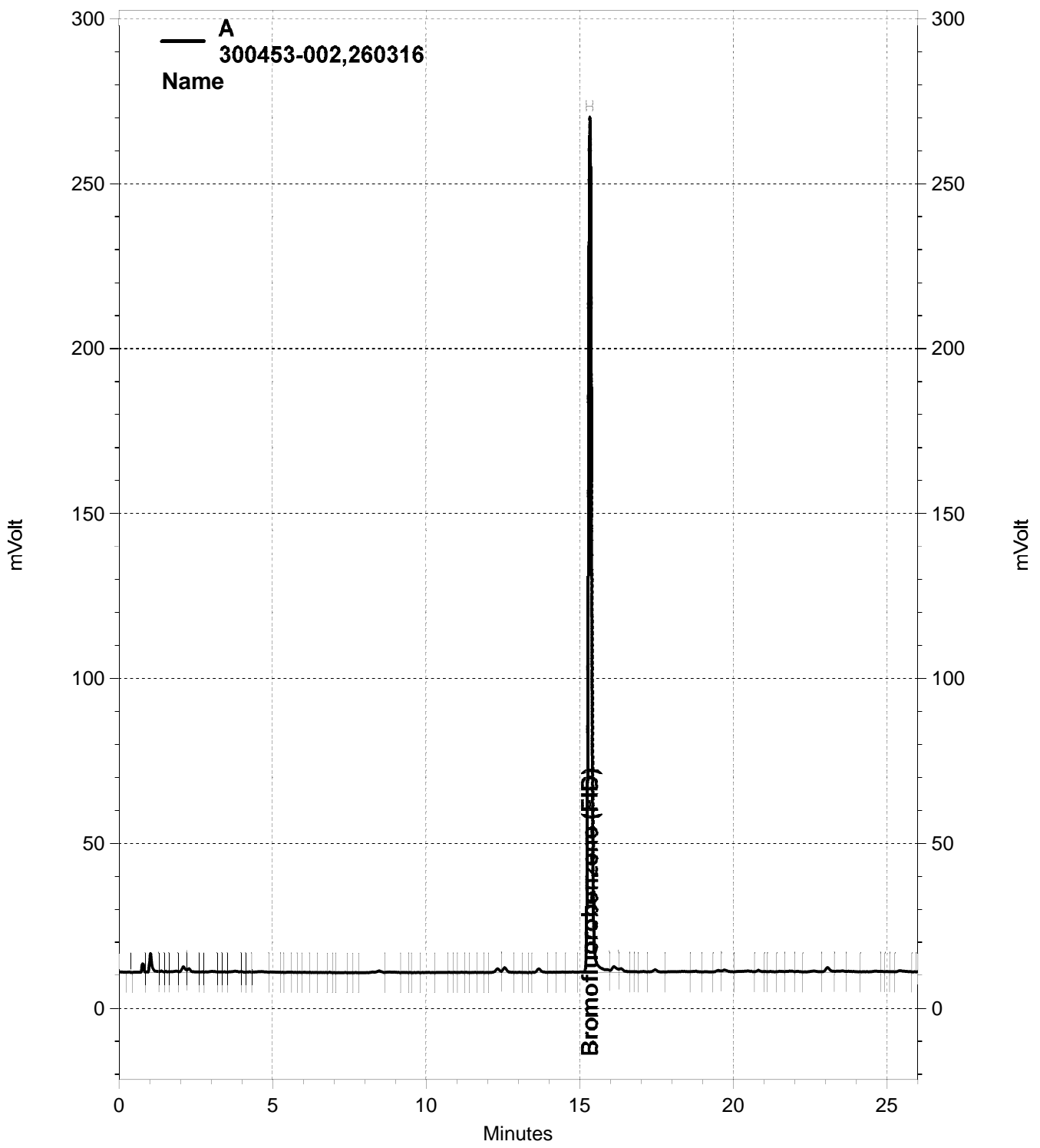
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.615	8.984	92	46-120	4	33

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	64-134

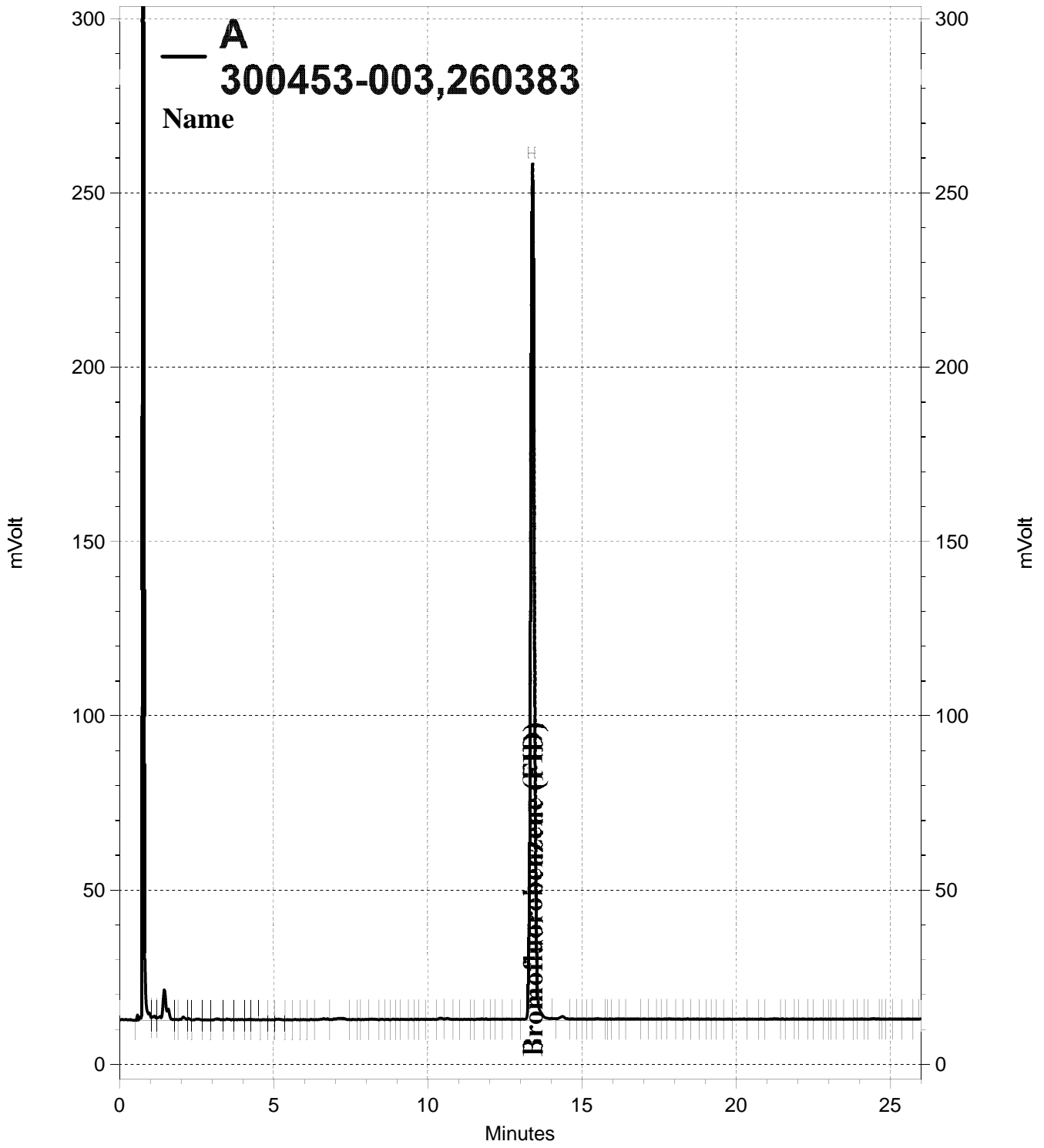
RPD= Relative Percent Difference



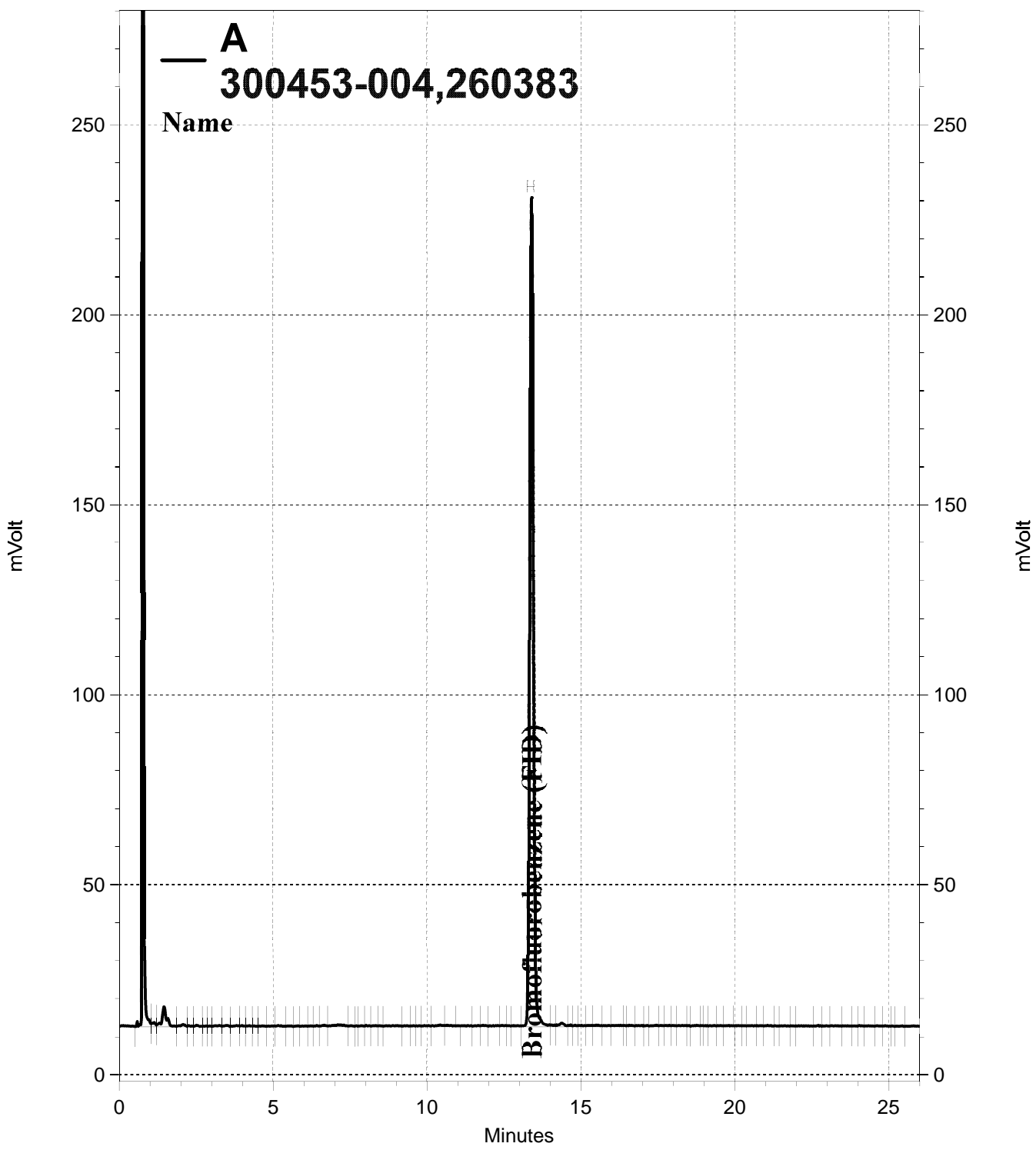
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\159-016, A



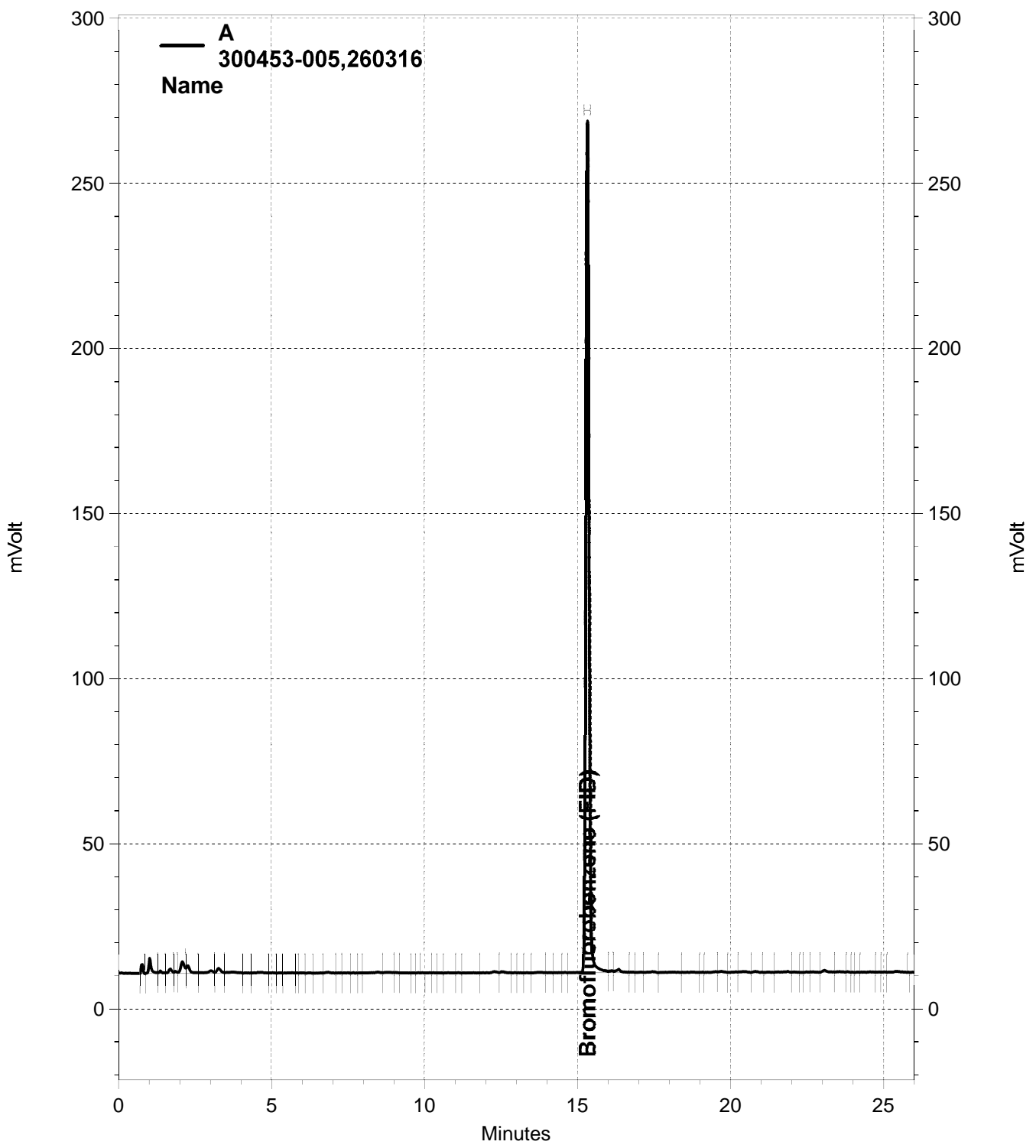
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\159-028, A



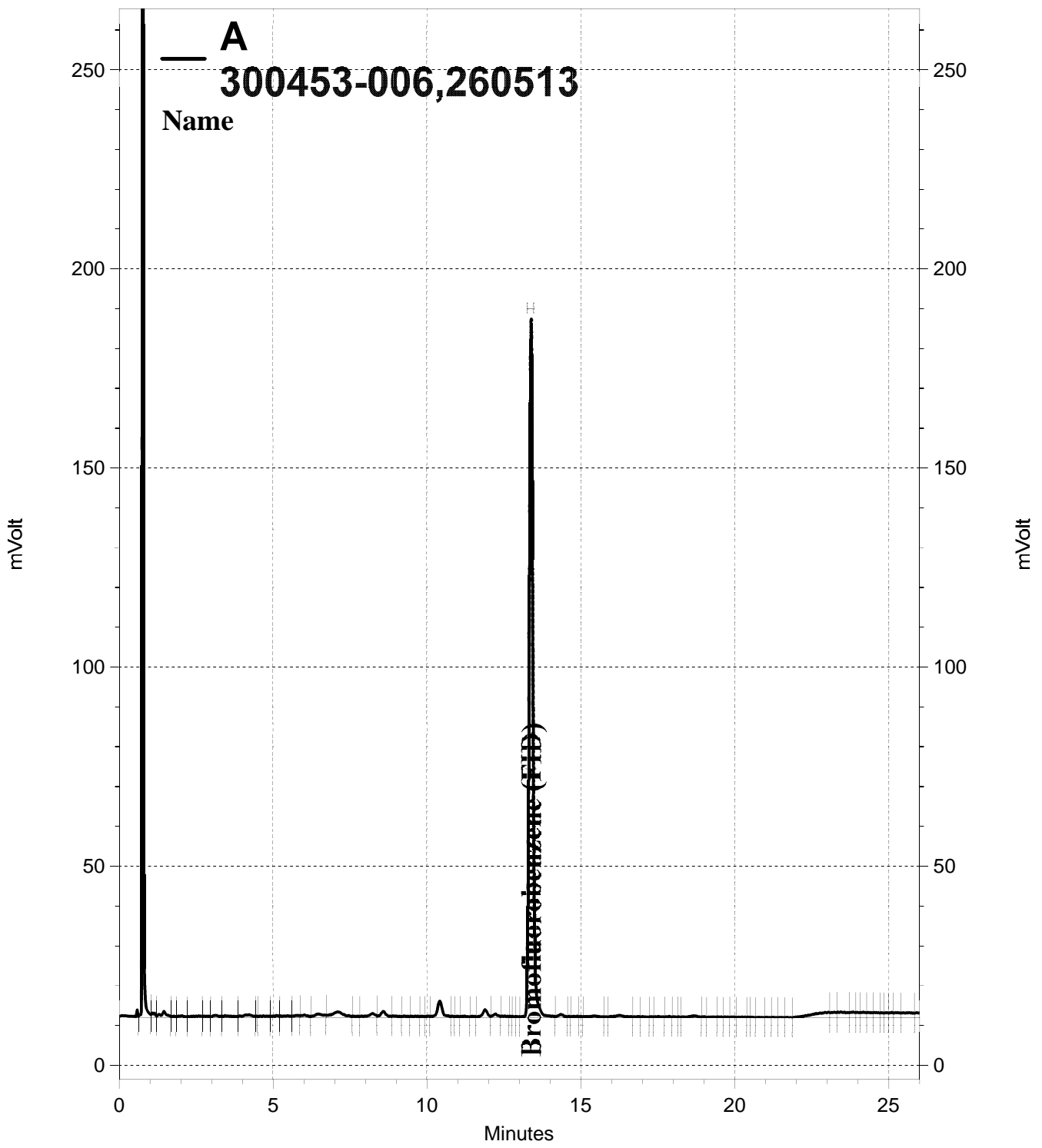
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-010, A



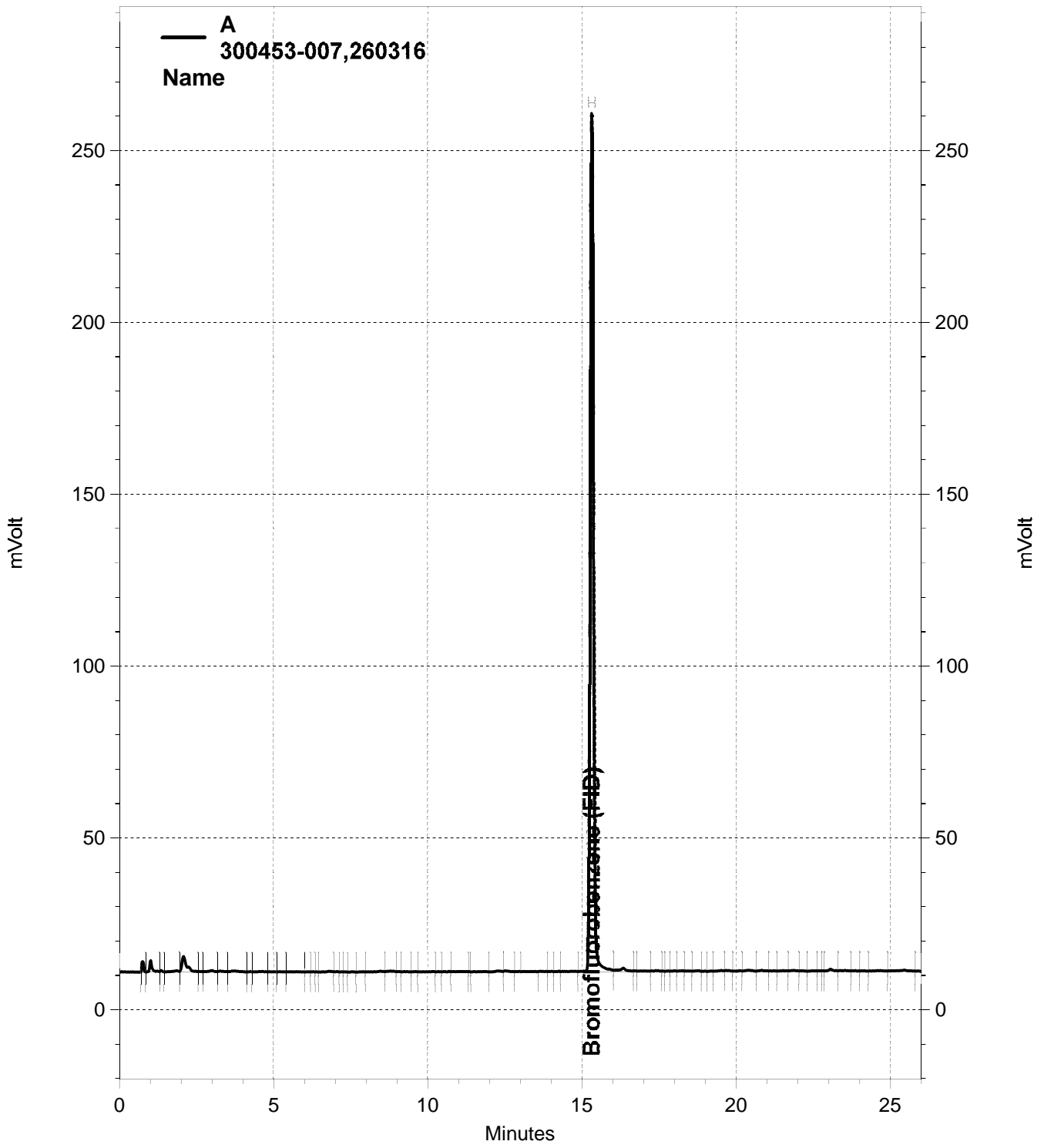
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-011, A



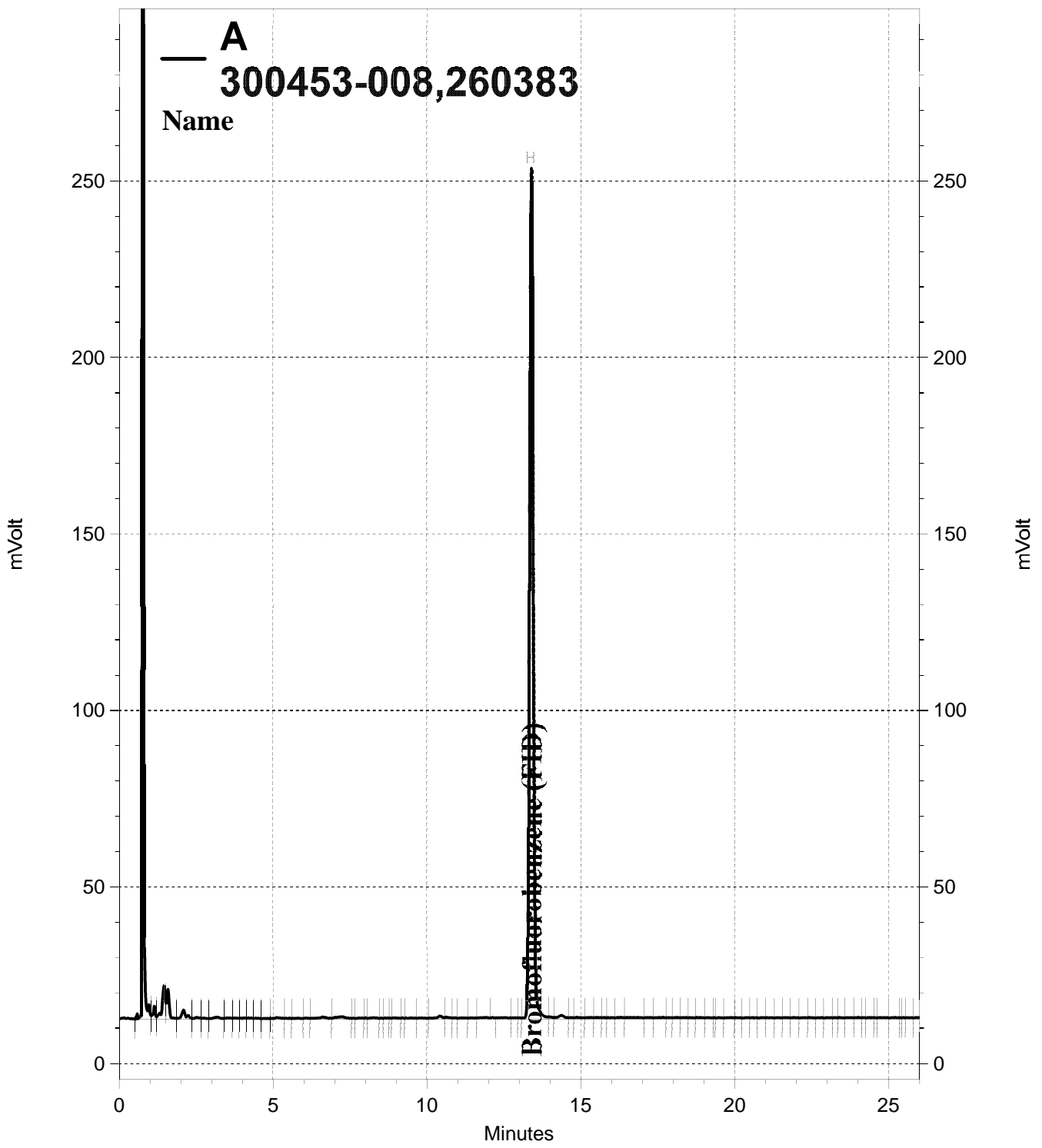
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\159-031, A



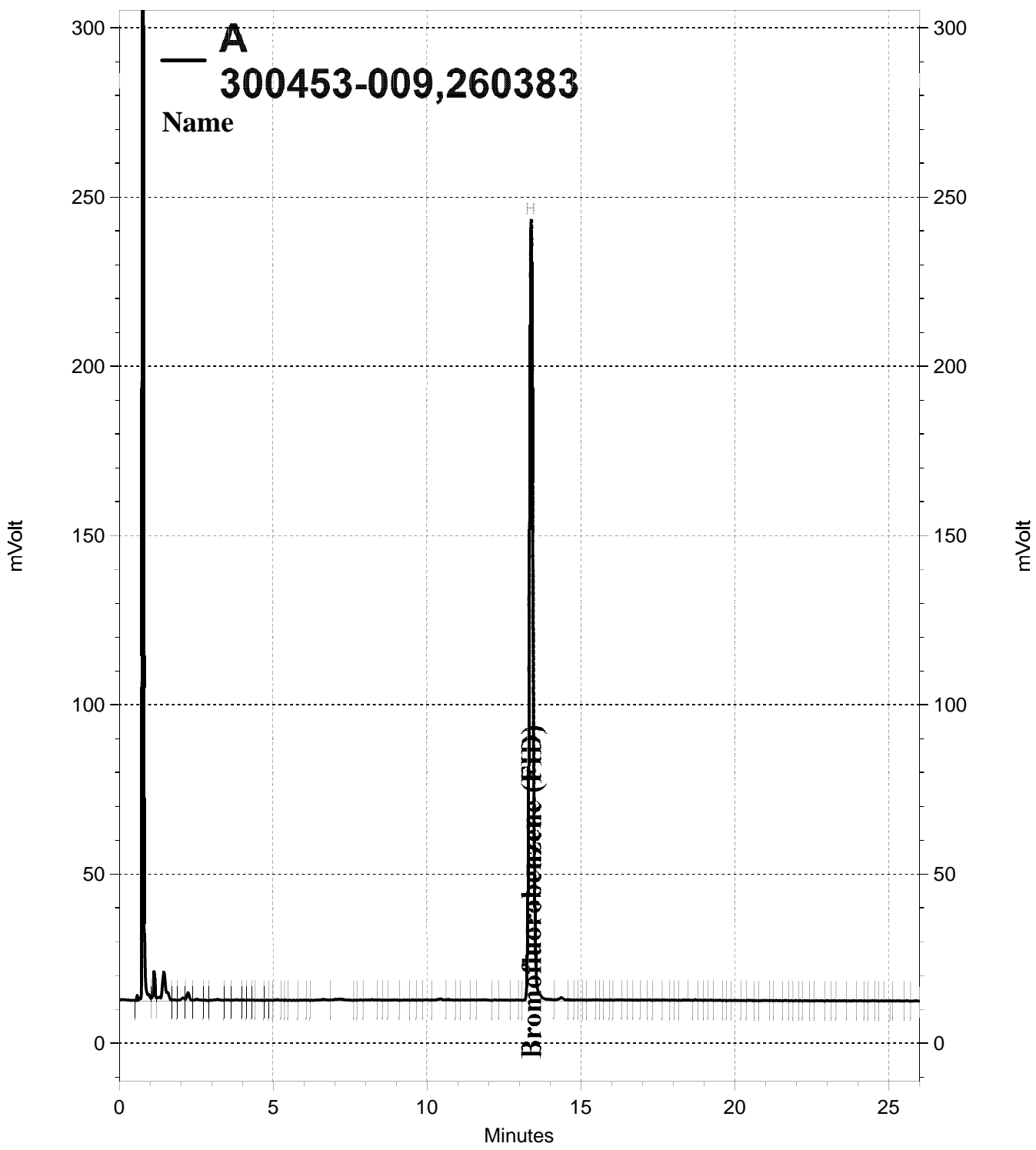
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\165-014, A



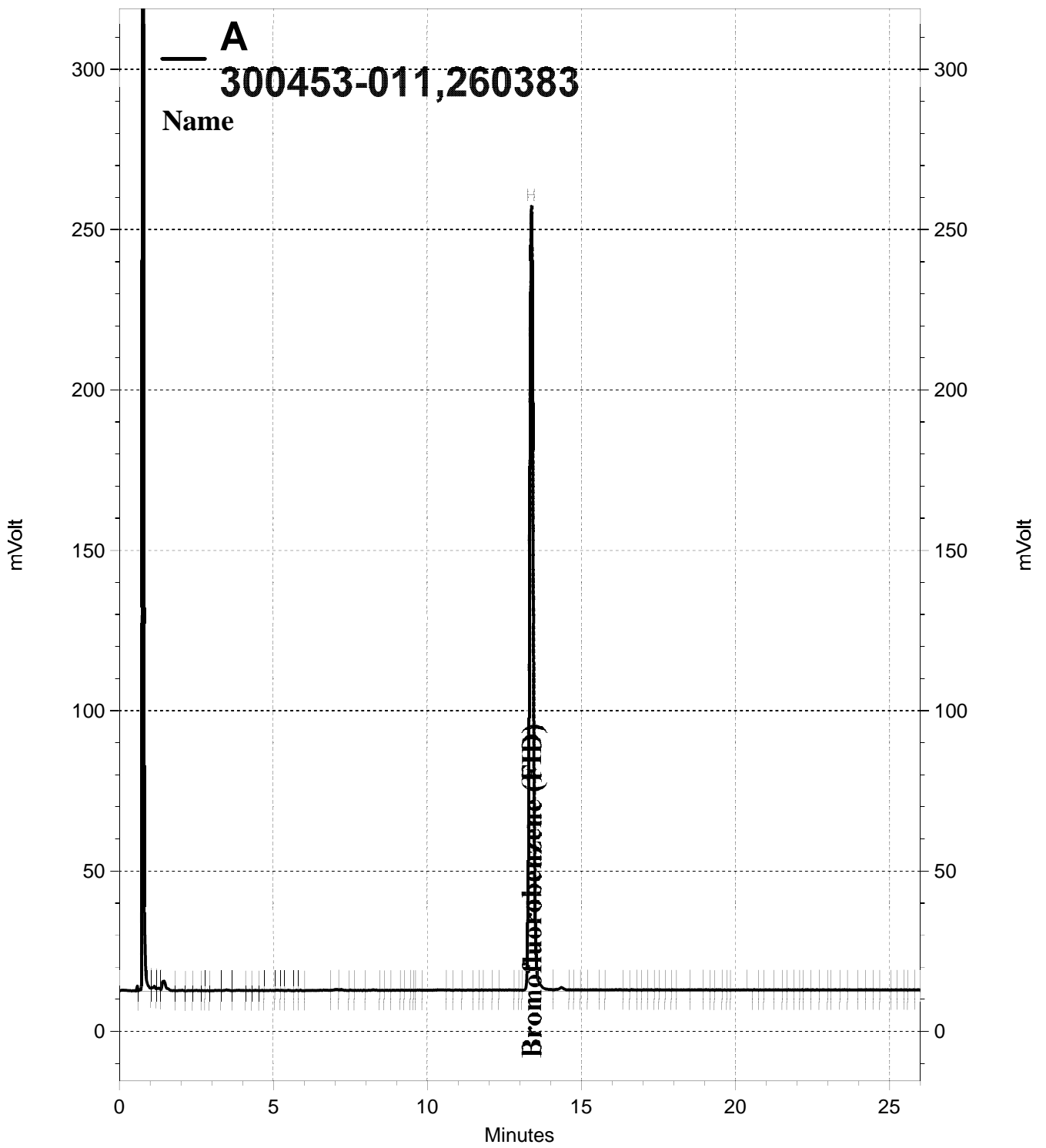
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\159-033, A



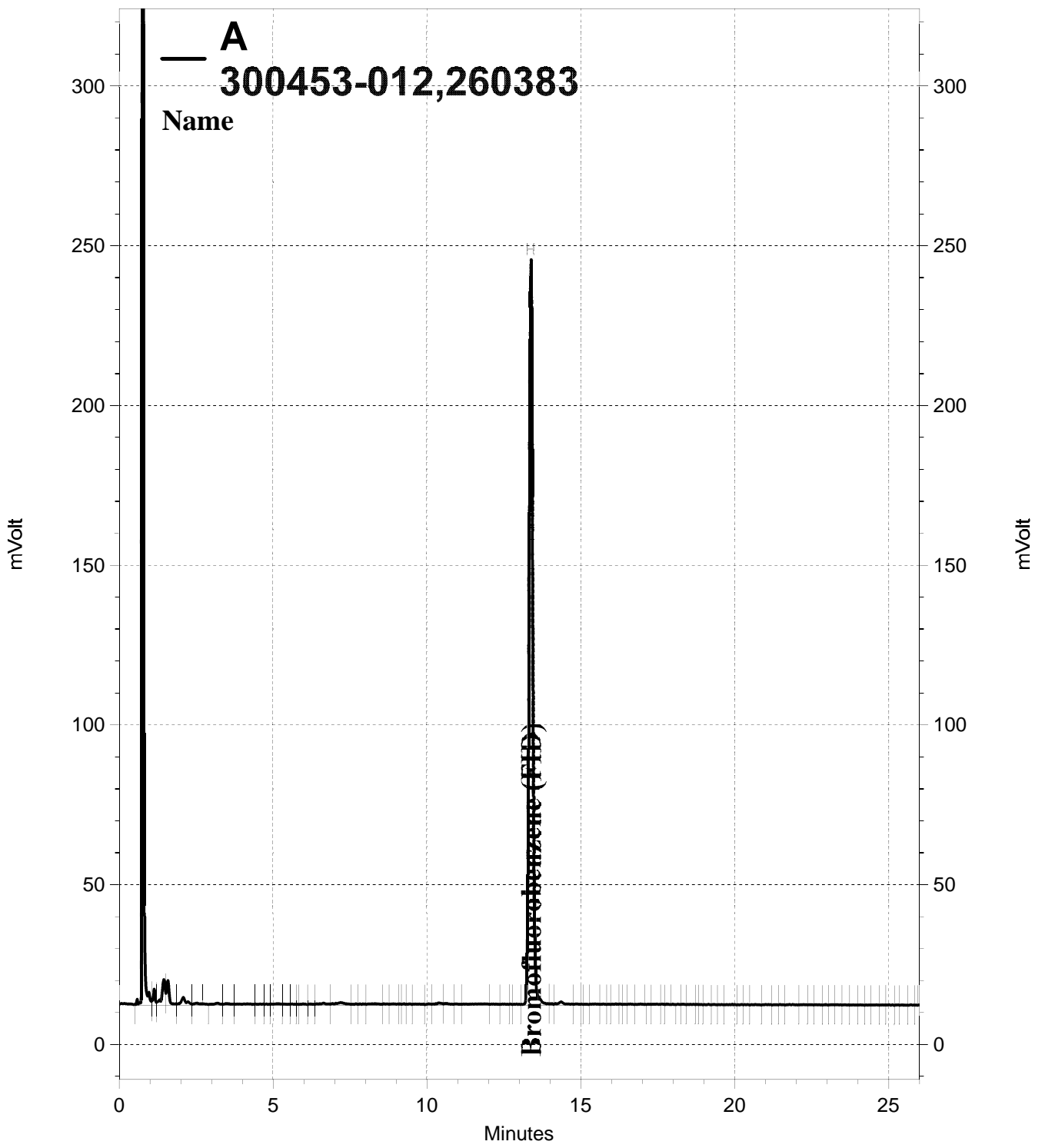
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-013, A



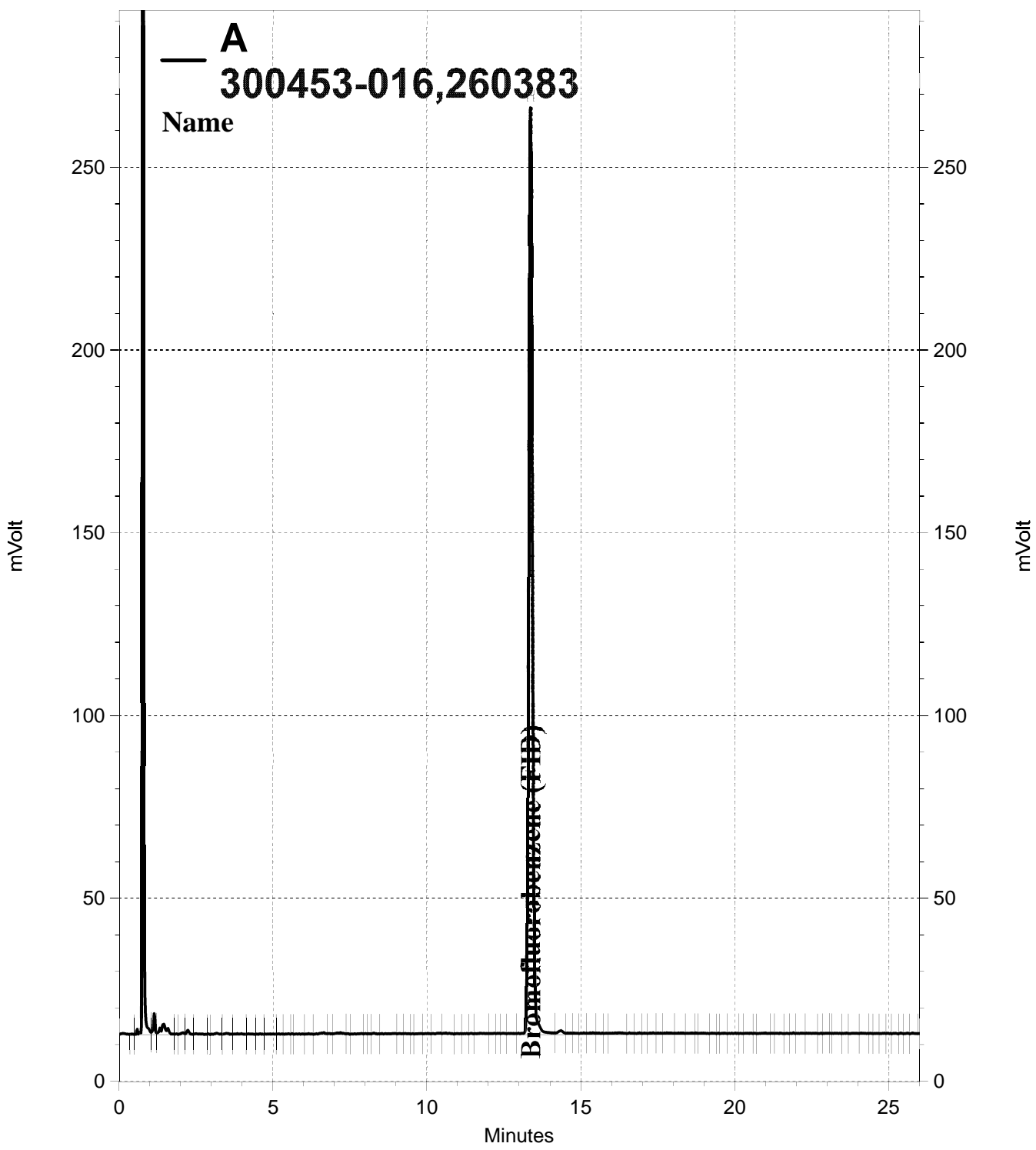
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-014, A



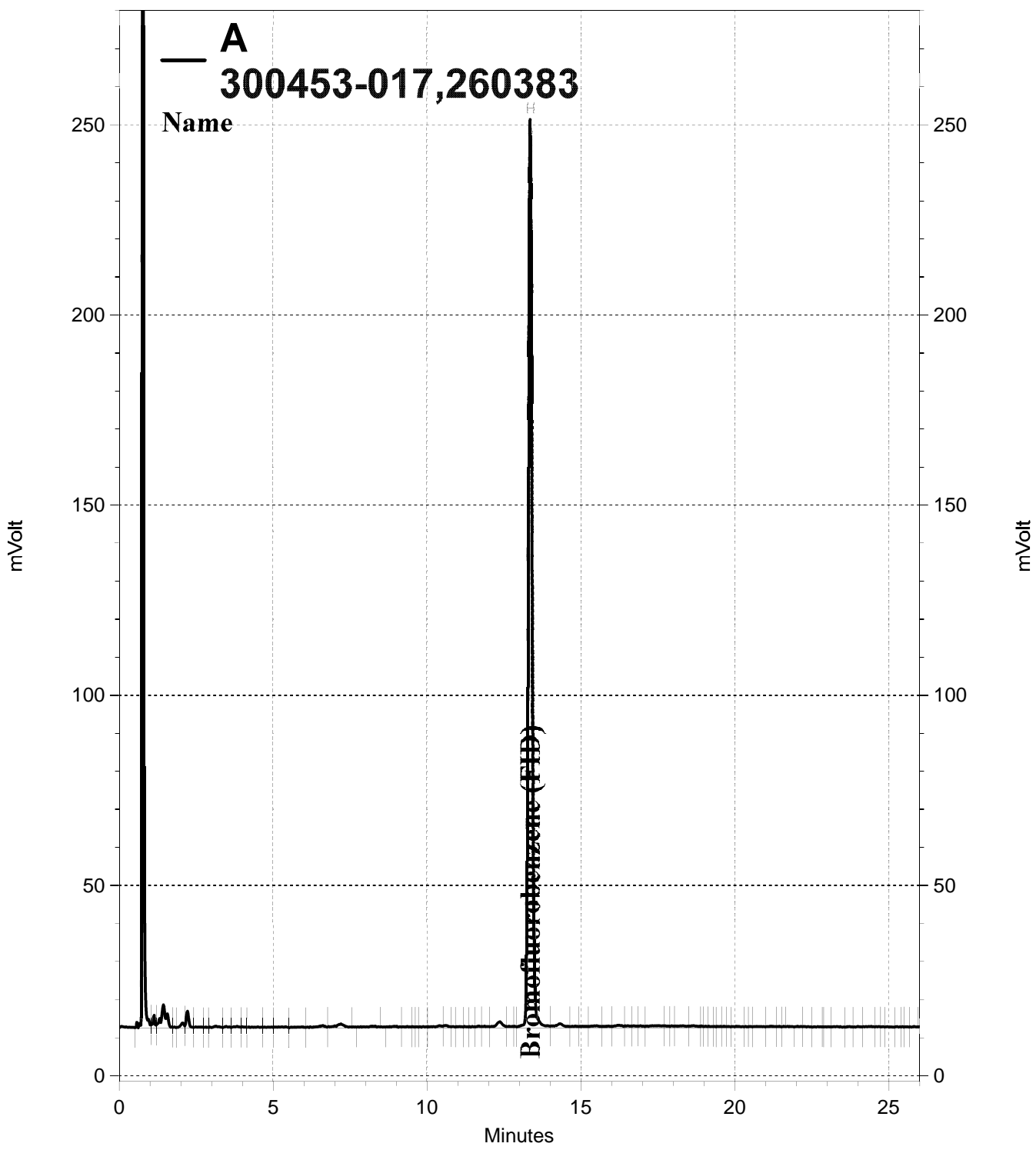
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-016, A



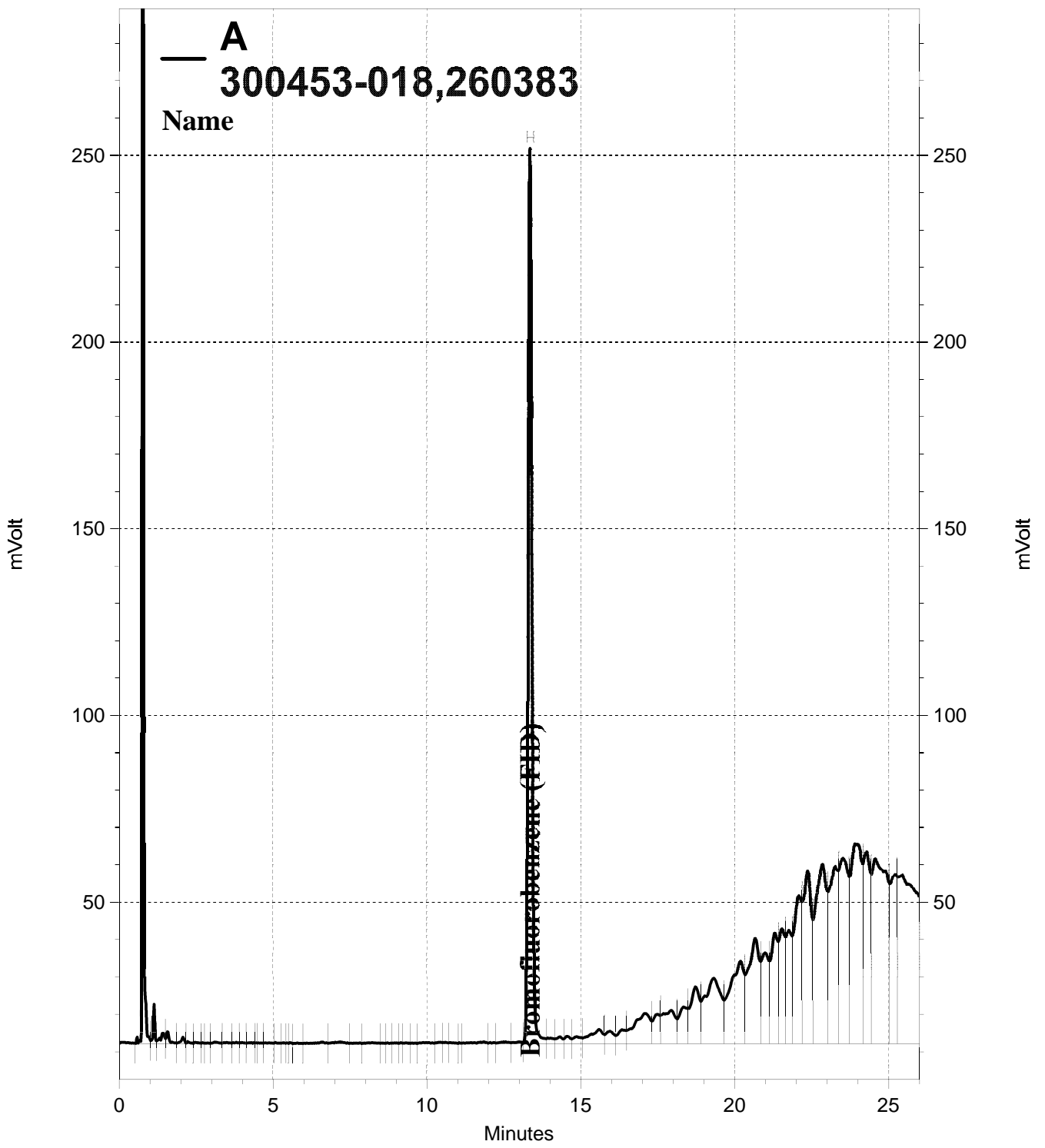
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-017, A



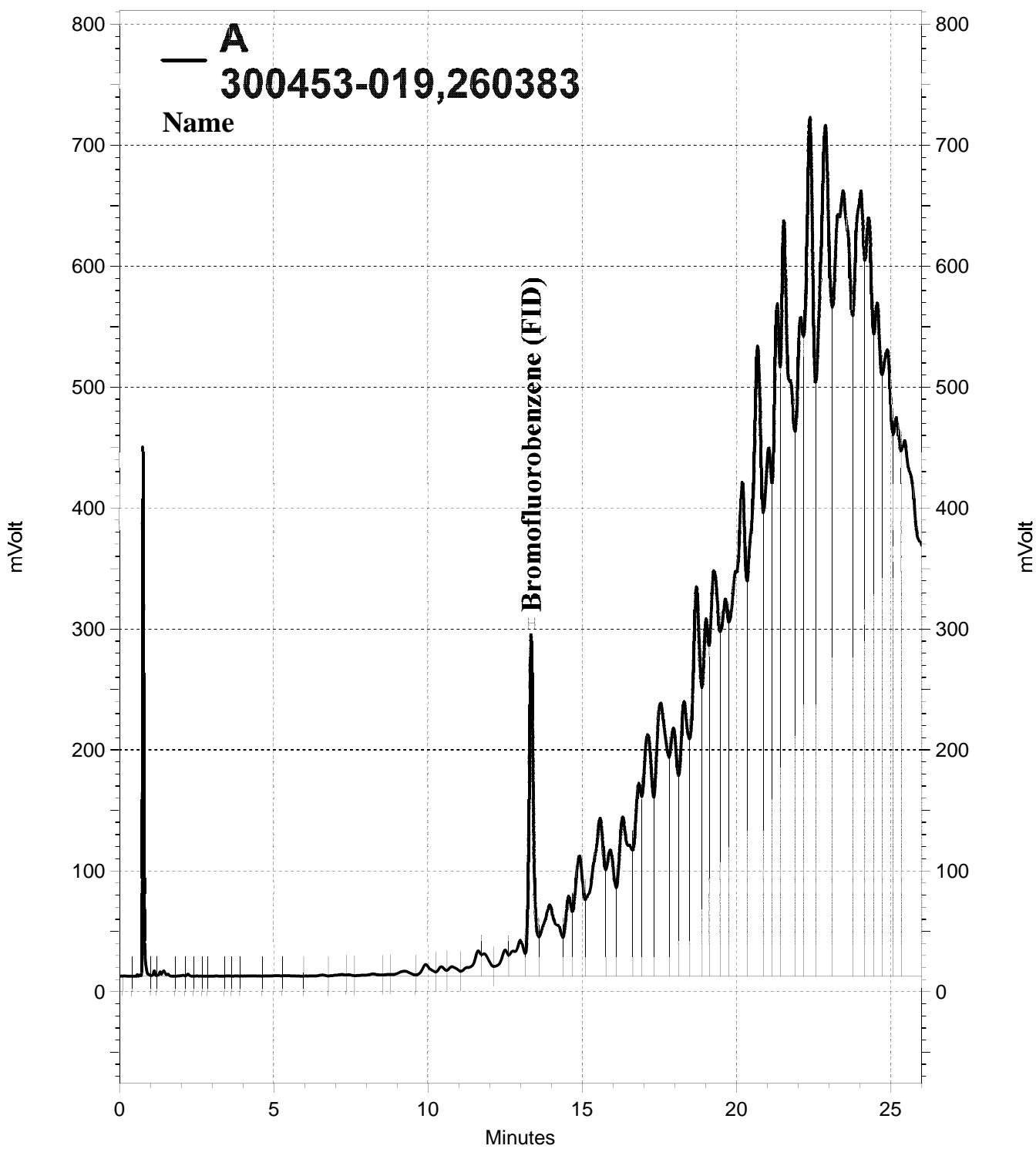
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-019, A



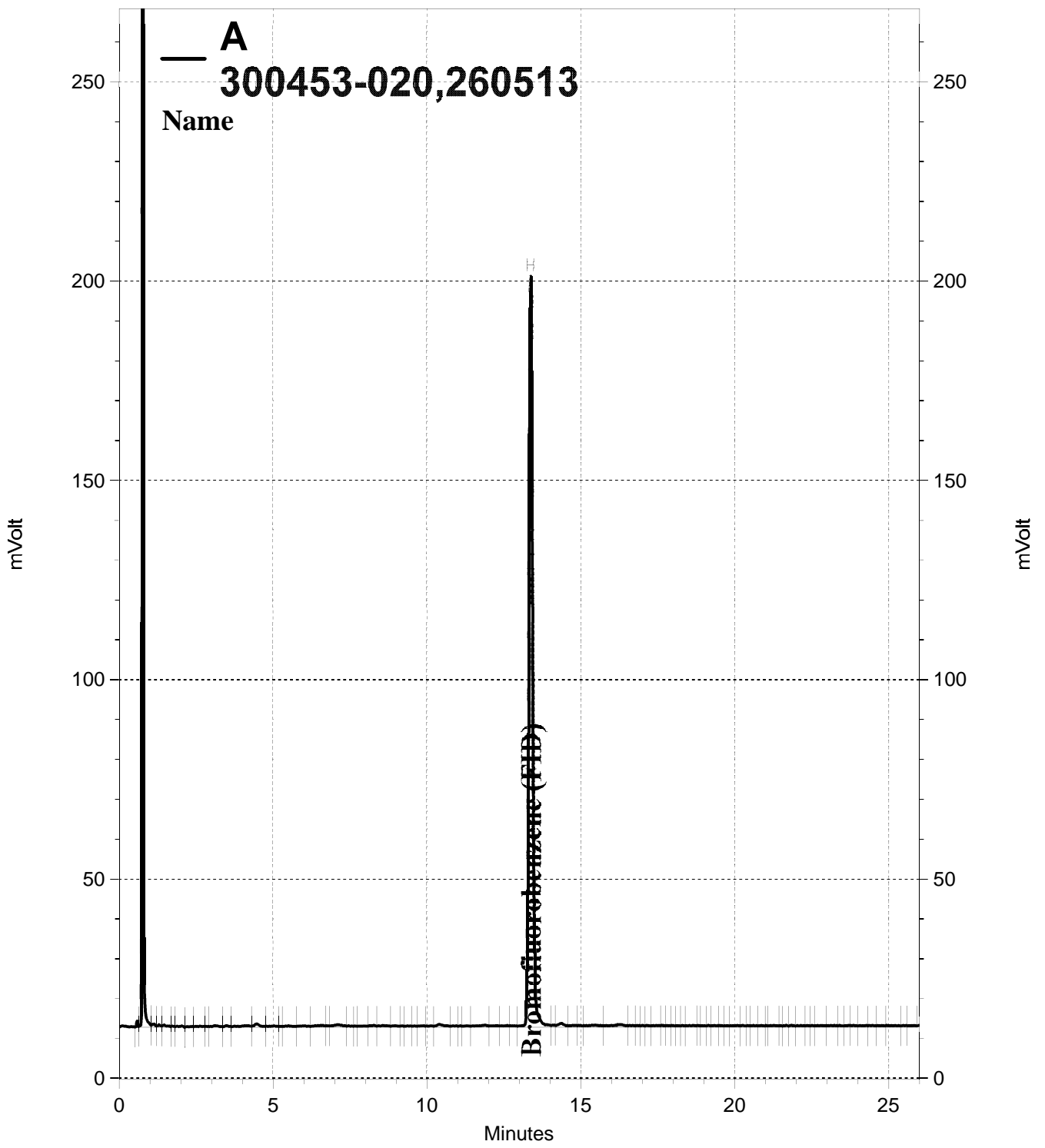
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-022, A



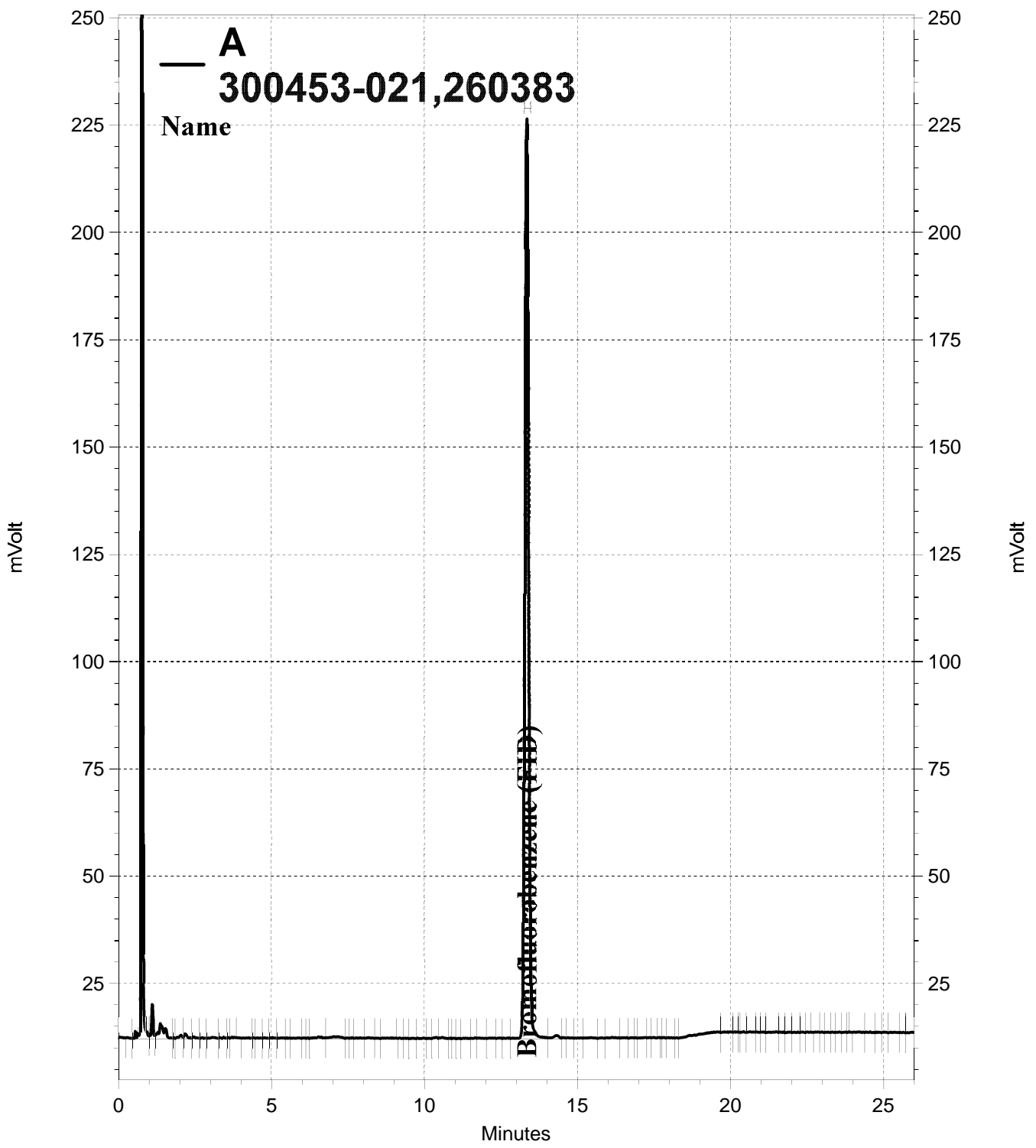
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-023, A



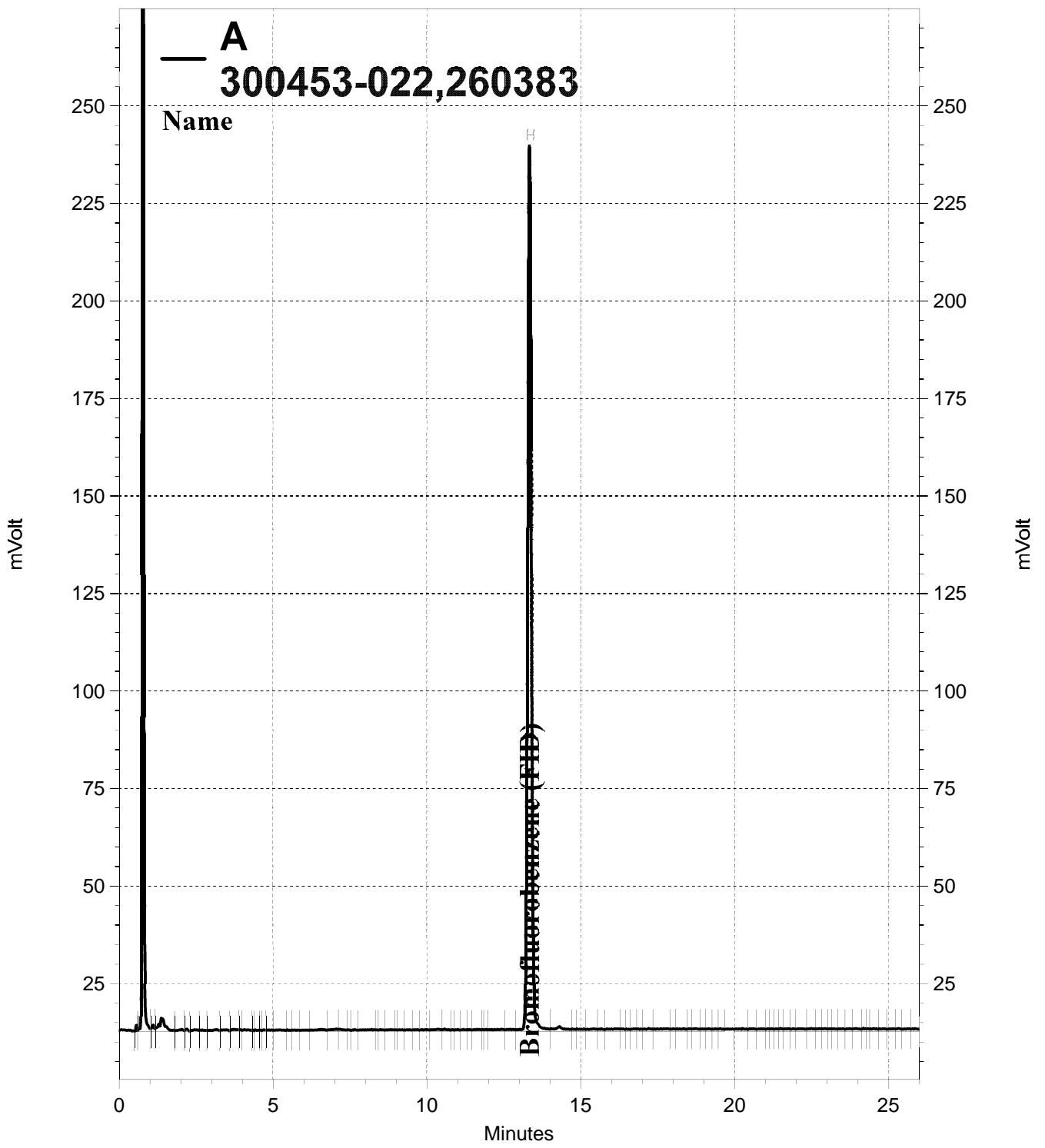
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-024, A



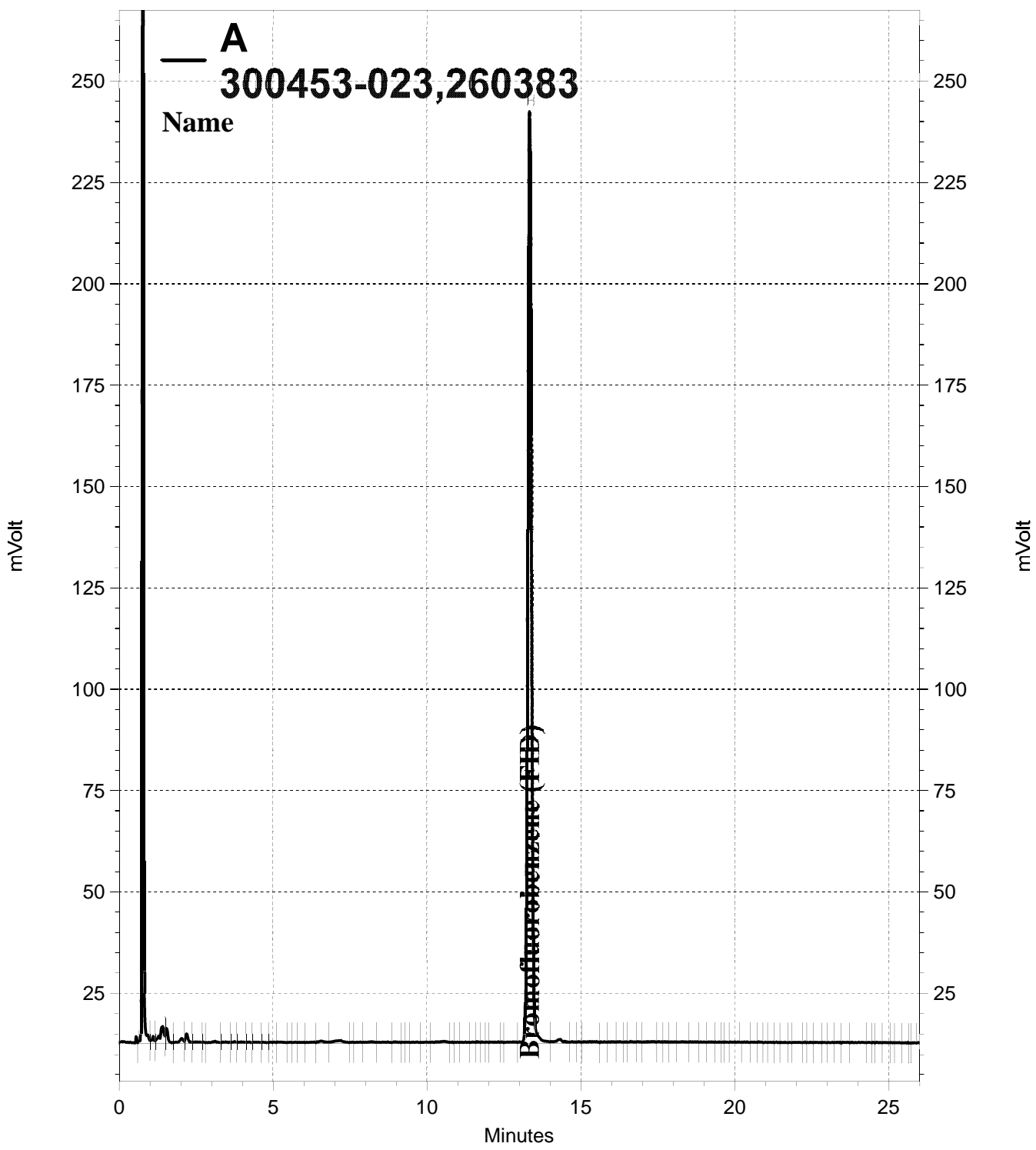
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\165-015, A



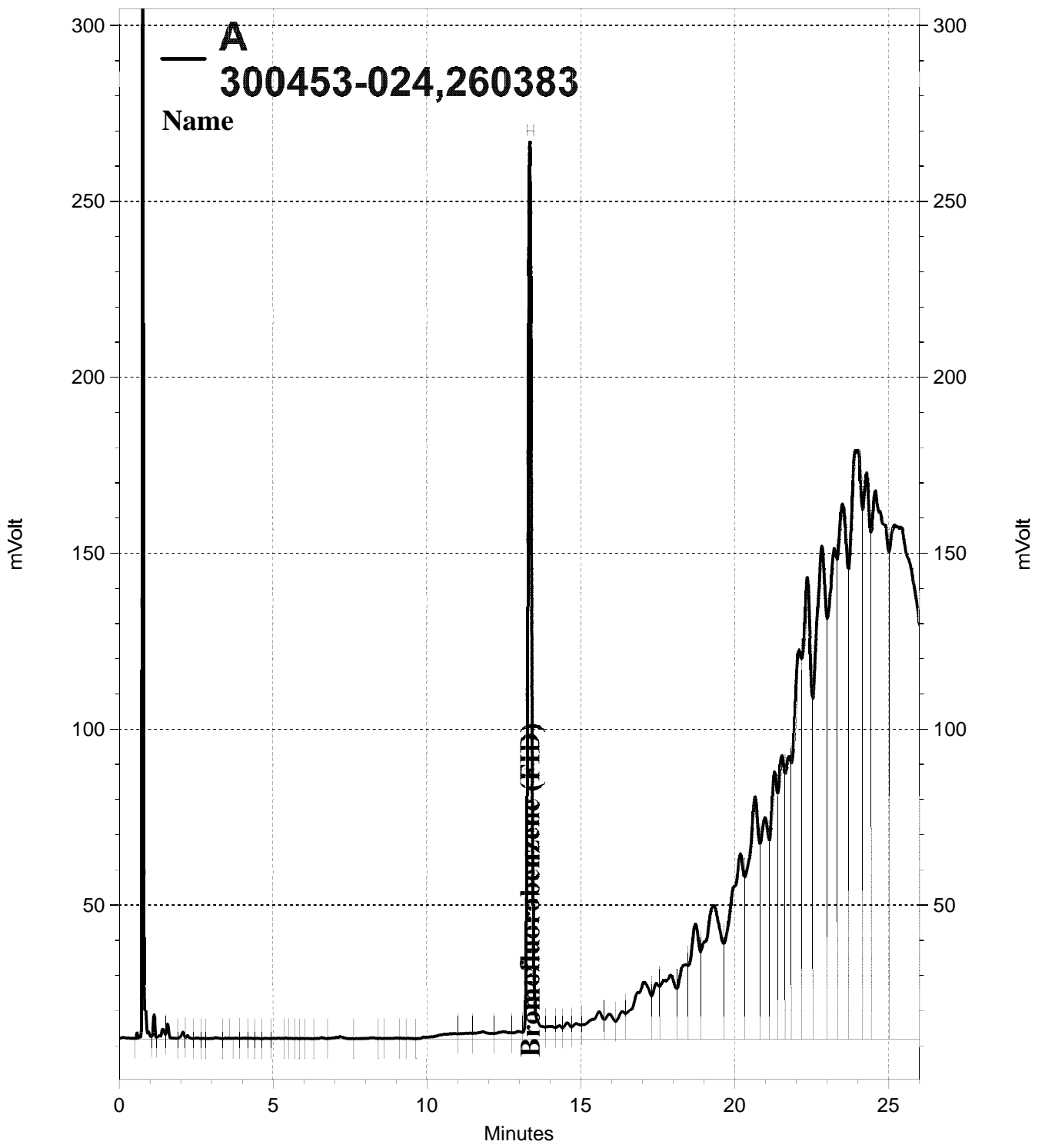
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-026, A



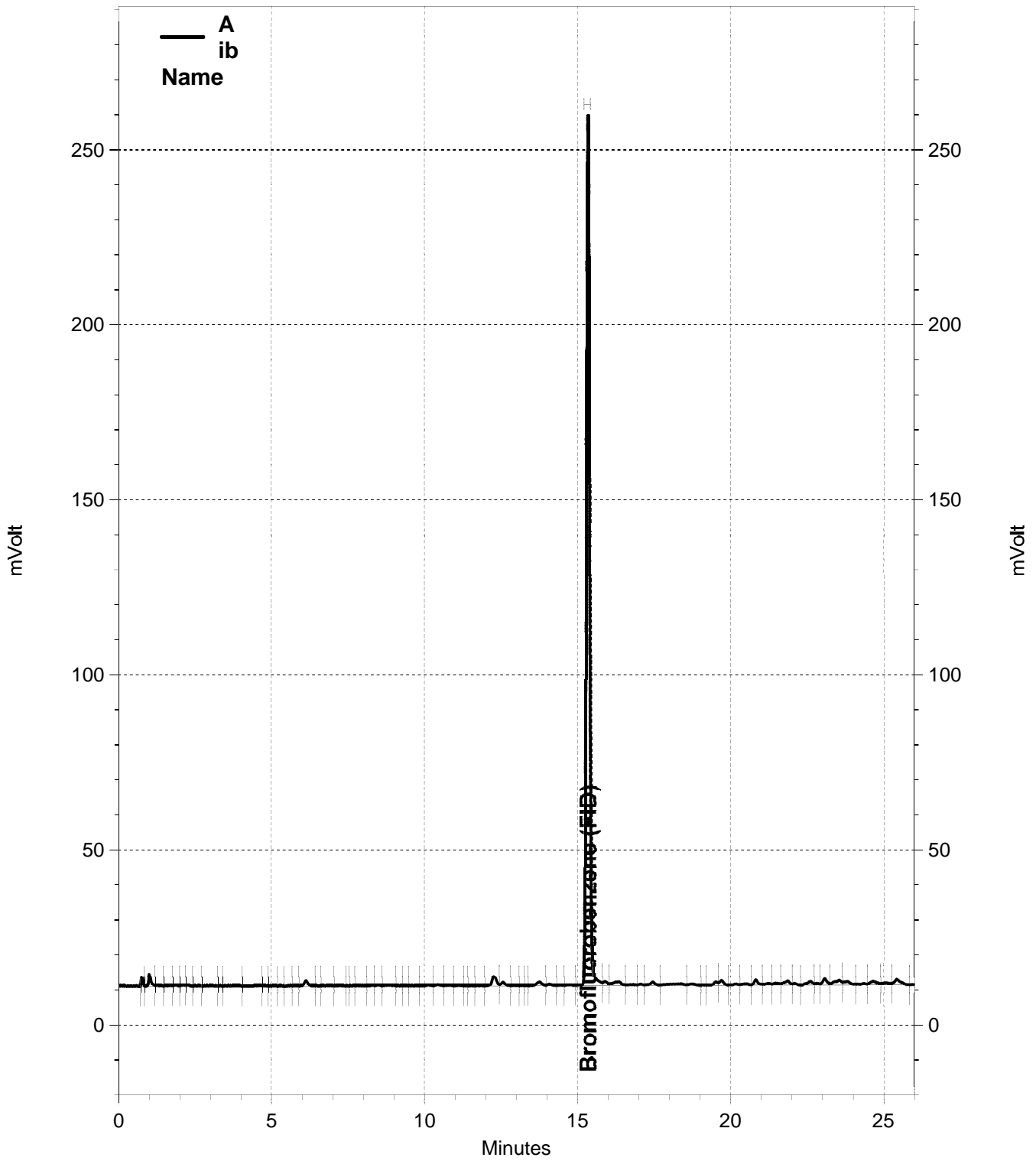
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-027, A



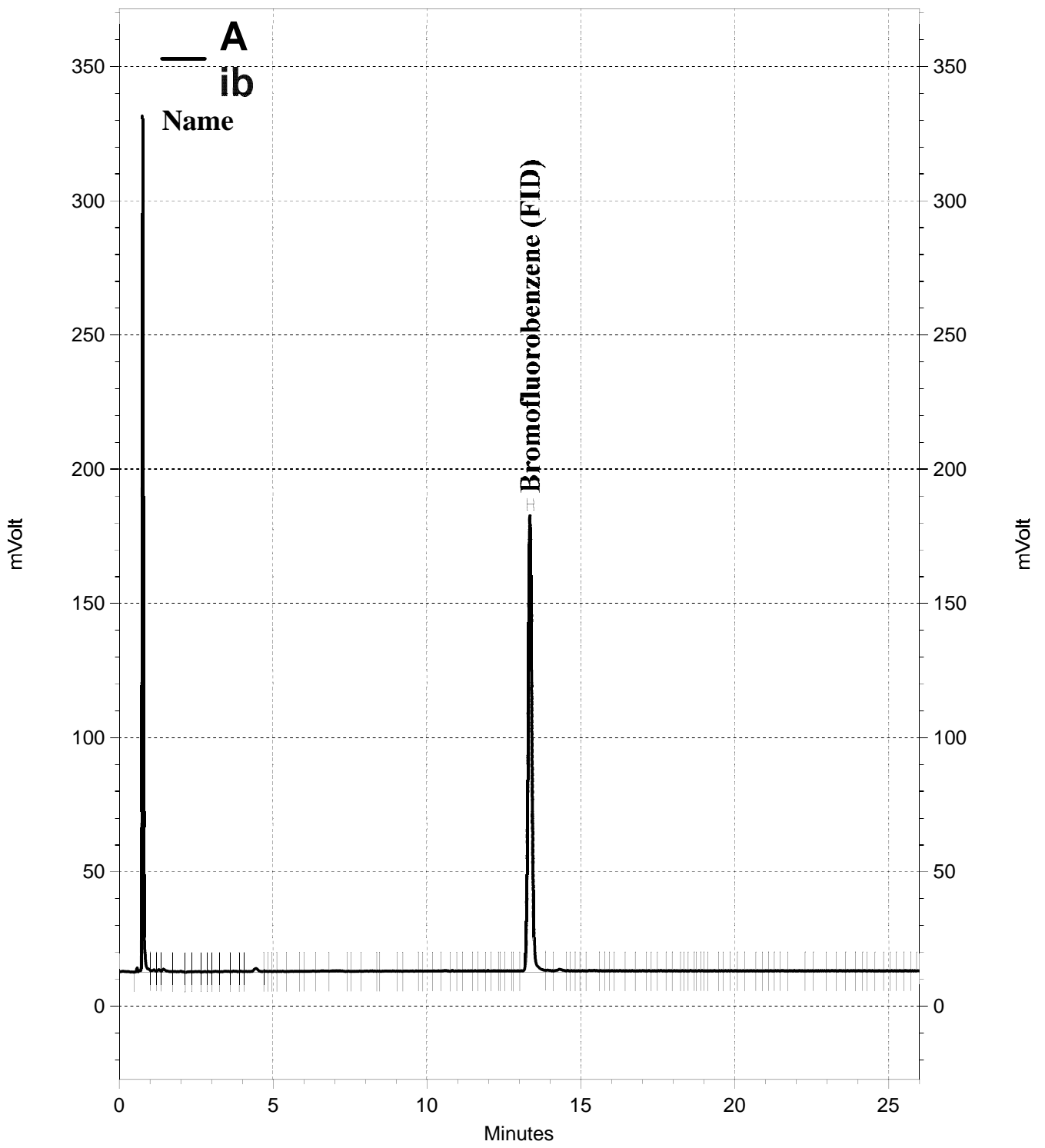
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-028, A



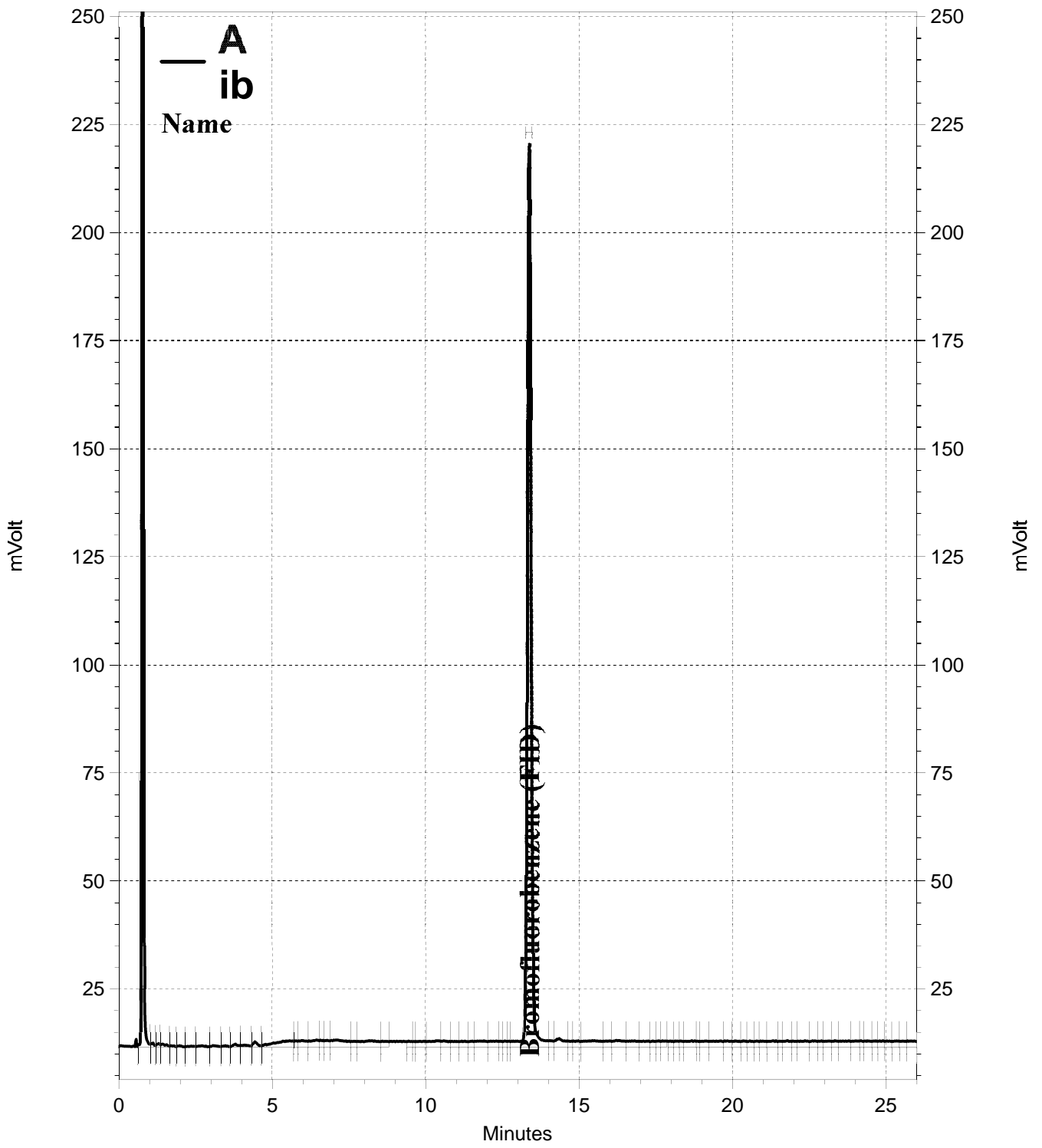
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-029, A



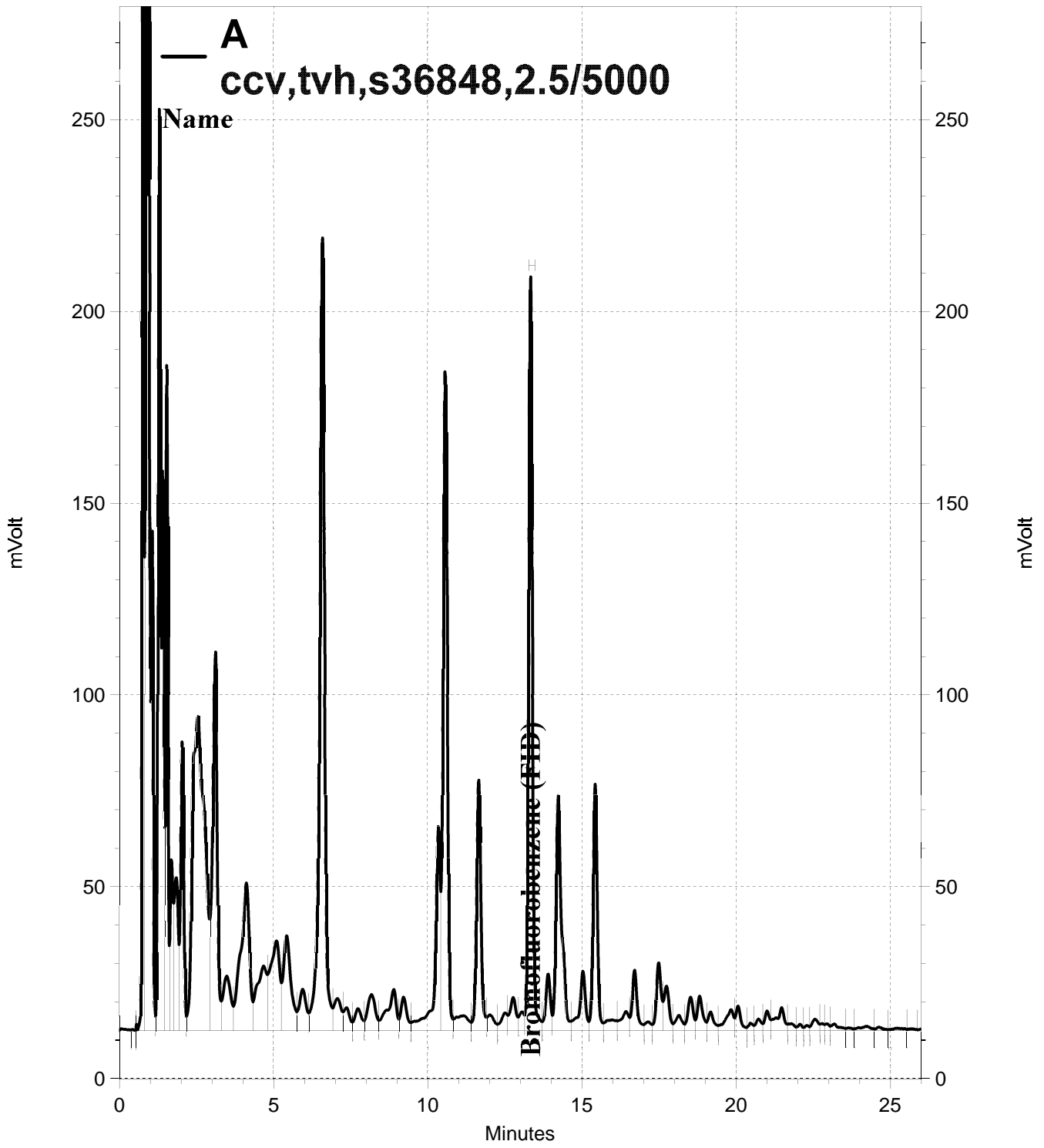
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\159-005, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-004, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\165-005, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\162-002, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 300453 GCVOA Soil: EPA 8015B

Inst : GC05
 Calnum : 318176372002
 Units : ng

Name : TVH_122
 Date : 02-MAY-2018 12:09
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_002	318176372002	TVH_14	02-MAY-2018 12:09	S36893 (1000X), S36233 (5000X)
L2	122_003	318176372003	TVH_15	02-MAY-2018 12:47	S36892 (1000X), S36233 (5000X)
L3	122_004	318176372004	TVH_16	02-MAY-2018 13:25	S36891 (1000X), S36233 (5000X)
L4	122_005	318176372005	TVH_17	02-MAY-2018 14:02	S36890 (2000X), S36233 (5000X)
L5	122_006	318176372006	TVH_18	02-MAY-2018 14:40	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	2961.4	2506.0	2455.4	2423.4	2633.8	AVRG		3.85E-4		2596.0	8	0.995	20	
Bromofluorobenzene (FID)	A	1639.9	1598.1	1644.8	2044.9	2307.4	AVRG		5.41E-4		1847.0	17	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	14	2500.0	-3	10000	-5	25000	-7	50000	1
Bromofluorobenzene (FID)	A	900.00	-11	900.00	-13	900.00	-11	900.00	11	900.00	25

CJN 05/02/18 : Corrected baseline noise or negative peak in TVH_14 (122_002).

Analyst: CJN

Date: 05/02/18

Reviewer: EAH

Date: 05/03/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC05
Calnum : 318176372002

Name : TVH_122
Cal Date : 02-MAY-2018

ICV 318176372008 (122_008 02-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8824	ng	-12	15	

Analyst: CJN

Date: 05/02/18

Reviewer: EAH

Date: 05/03/18

ENTHALPY INITIAL CALIBRATION FOR 300453 GCVOA Soil: EPA 8015B

Inst : GC07
 Calnum : 328184879001
 Units : ng

Name : TVH_129
 Date : 08-MAY-2018 21:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	128_017	328184879017	TVH_14	08-MAY-2018 21:46	S36893 (1000X), S36233 (5000X)
L2	128_018	328184879018	TVH_15	08-MAY-2018 22:25	S36892 (1000X), S36233 (5000X)
L3	128_019	328184879019	TVH_16	08-MAY-2018 23:03	S36891 (1000X), S36233 (5000X)
L4	128_020	328184879020	TVH_17	08-MAY-2018 23:42	S36890 (2000X), S36233 (5000X)
L5	128_021	328184879021	TVH_18	09-MAY-2018 00:20	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2551.5	2151.4	1868.7	2079.4	2113.6	AVRG		4.64E-4		2152.9	12	0.995	20	
Bromofluorobenzene (FID)	A	2209.5	2170.3	2197.1	2287.3	2435.2	AVRG		4.43E-4		2259.9	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	19	2500.0	0	10000	-13	25000	-3	50000	-2
Bromofluorobenzene (FID)	A	900.00	-2	900.00	-4	900.00	-3	900.00	1	900.00	8

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC07
Calnum : 328184879001

Name : TVH_129
Cal Date : 08-MAY-2018

ICV 328184879024 (128_024 09-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8973	ng	-10	15	

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318233848002 File : 162_002 Time : 11-JUN-2018 10:06
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2645.5	5000	5095	ng	2	15	
Bromofluorobenzene (FID)	A	1847.0	1889.7	900.0	920.8	ng	2	15	

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY SPIKE USER REPORT FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC935423 IDF : 1.0
 Seqnum : 318233848003.1 File : 162_003 Time : 11-JUN-2018 10:44
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2596.0	2859.4	5000	5507	ng	10	15	u
Bromofluorobenzene (FID)	A	1847.0	1936.2	900.0	943.5	ng	5	15	u

Analyst: CJN Date: 06/15/18 Reviewer: EAH Date: 06/15/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318233848008 File : 162_008 Time : 11-JUN-2018 17:06
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2741.4	10000	10560	ng	6	15	
Bromofluorobenzene (FID)	A	1847.0	2174.0	900.0	1059	ng	18	15	c+

CJN 06/12/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318233848020 File : 162_020 Time : 12-JUN-2018 00:37
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2594.1	15000	14990	ng	0	15	
Bromofluorobenzene (FID)	A	1847.0	2229.3	900.0	1086	ng	21	15	c+

CJN 06/12/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318233848031 File : 162_031 Time : 12-JUN-2018 07:31
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2584.2	10000	9955	ng	0	15	
Bromofluorobenzene (FID)	A	1847.0	2110.8	900.0	1029	ng	14	15	

Analyst: CJN Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY SPIKE USER REPORT FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC935975 IDF : 1.0
 Seqnum : 318238334002.2 File : 165_002 Time : 14-JUN-2018 12:52
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2880.9	5000	5549	ng	11	15	u
Bromofluorobenzene (FID)	A	1847.0	1980.2	900.0	964.9	ng	7	15	u

Analyst: CJN Date: 06/15/18 Reviewer: EAH Date: 06/15/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318238334016 File : 165_016 Time : 14-JUN-2018 21:52
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2784.6	10000	10730	ng	7	15	
Bromofluorobenzene (FID)	A	1847.0	2011.6	900.0	980.2	ng	9	15	

Analyst: CJN Date: 06/15/18 Reviewer: EAH Date: 06/15/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318238334028 File : 165_028 Time : 15-JUN-2018 05:23
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2730.3	15000	15780	ng	5	15	
Bromofluorobenzene (FID)	A	1847.0	2189.7	900.0	1067	ng	19	15	c+

CJN 06/15/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 06/15/18 Reviewer: EAH Date: 06/15/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318238334032 File : 165_032 Time : 15-JUN-2018 07:54
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2840.5	10000	10940	ng	9	15	
Bromofluorobenzene (FID)	A	1847.0	2158.2	900.0	1052	ng	17	15	c+

CJN 06/15/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 06/15/18 Reviewer: EAH Date: 06/15/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328229496011.1 File : 159_011 Time : 08-JUN-2018 15:37
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2198.8	10000	10210	ng	2	15	
Bromofluorobenzene (FID)	A	2259.9	2087.1	900.0	831.2	ng	-8	15	

LW: 06/08/18 * JM2: 06/11/18 EAH: 06/14/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328229496025 File : 159_025 Time : 09-JUN-2018 03:29
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2049.4	15000	14280	ng	-5	15	
Bromofluorobenzene (FID)	A	2259.9	2165.3	900.0	862.3	ng	-4	15	

Analyst: CJN Date: 06/11/18 Reviewer: TKM Date: 06/11/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328229496035 File : 159_035 Time : 09-JUN-2018 09:50
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	1933.7	10000	8982	ng	-10	15	
Bromofluorobenzene (FID)	A	2259.9	2086.1	900.0	830.8	ng	-8	15	

Analyst: CJN Date: 06/11/18 Reviewer: TKM Date: 06/11/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318176372

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 05/02/18 11:32
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	122_001	ICAL	CALIB			05/02/18 11:32	1.0	1
002	122_002	ICAL	TVH_14			05/02/18 12:09	1.0	2 1
003	122_003	ICAL	TVH_15			05/02/18 12:47	1.0	3 1
004	122_004	ICAL	TVH_16			05/02/18 13:25	1.0	4 1
005	122_005	ICAL	TVH_17			05/02/18 14:02	1.0	5 1
006	122_006	ICAL	TVH_18			05/02/18 14:40	1.0	5 1
007	122_007	IB				05/02/18 15:17	1.0	1
008	122_008	ICV	TVH			05/02/18 15:55	1.0	6 1
009	122_009	X	ICV			05/02/18 16:33	1.0	6 1
010	122_010	CMARKER	CMARKER			05/02/18 17:10	1.0	7 1

Reviewed by: _____ Date: _____

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S35319

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318233848

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 06/11/18 09:28
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	162_001	X	CMARKER			06/11/18 09:28	1.0	1 2
002	162_002	CCV	TVH			06/11/18 10:06	1.0	3 2
003	162_003	CCV/LCS	QC935423	Soil	260383	06/11/18 10:44	1.0	3 2
004	162_004	BLANK	QC935426	Soil	260383	06/11/18 11:21	1.0	2
005	162_005	MSS	300497-034	Soil	260383	06/11/18 15:13	1.0	2
006	162_006	MS	QC935424	Soil	260383	06/11/18 15:51	1.0	3 2
007	162_007	MSD	QC935425	Soil	260383	06/11/18 16:28	1.0	3 2
008	162_008	CCV	TVH			06/11/18 17:06	1.0	3 2
009	162_009	X	CMARKER			06/11/18 17:43	1.0	1 2
010	162_010	SAMPLE	300453-003	Soil	260383	06/11/18 18:21	1.0	2
011	162_011	SAMPLE	300453-004	Soil	260383	06/11/18 18:59	1.0	2
012	162_012	SAMPLE	300453-006	Soil	260383	06/11/18 19:37	1.0	2
013	162_013	SAMPLE	300453-008	Soil	260383	06/11/18 20:14	1.0	2
014	162_014	SAMPLE	300453-009	Soil	260383	06/11/18 20:52	1.0	2
015	162_015	SAMPLE	300453-010	Soil	260383	06/11/18 21:29	1.0	2
016	162_016	SAMPLE	300453-011	Soil	260383	06/11/18 22:07	1.0	2
017	162_017	SAMPLE	300453-012	Soil	260383	06/11/18 22:45	1.0	2
018	162_018	SAMPLE	300453-015	Soil	260383	06/11/18 23:22	1.0	2
019	162_019	SAMPLE	300453-016	Soil	260383	06/12/18 00:00	1.0	2
020	162_020	CCV	TVH			06/12/18 00:37	1.0	3 2
021	162_021	X	CMARKER			06/12/18 01:15	1.0	1 2
022	162_022	SAMPLE	300453-017	Soil	260383	06/12/18 01:53	1.0	2
023	162_023	SAMPLE	300453-018	Soil	260383	06/12/18 02:30	1.0	2
024	162_024	SAMPLE	300453-019	Soil	260383	06/12/18 03:08	1.0	2 1:AVGAS:7-12=26000
025	162_025	SAMPLE	300453-020	Soil	260383	06/12/18 03:45	1.0	2
026	162_026	SAMPLE	300453-021	Soil	260383	06/12/18 04:23	1.0	2
027	162_027	SAMPLE	300453-022	Soil	260383	06/12/18 05:01	1.0	2
028	162_028	SAMPLE	300453-023	Soil	260383	06/12/18 05:38	1.0	2
029	162_029	SAMPLE	300453-024	Soil	260383	06/12/18 06:16	1.0	2
030	162_030	SAMPLE	300412-021	Soil	260383	06/12/18 06:53	1.0	2
031	162_031	CCV	TVH			06/12/18 07:31	1.0	3 2
032	162_032	X	CMARKER			06/12/18 08:08	1.0	1 2

CJN 06/12/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

Reviewed by: CJN Date: 06/12/18

Standards used: 1=S36859 2=S37192 3=S36848

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318238334

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 06/14/18 12:14
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std	Used
001	165_001	X	CMARKER			06/14/18 12:14	1.0	1 2	
002	165_002	CCV/BS	QC935975	Soil	260513	06/14/18 12:52	1.0	3 2	
003	165_003	BSD	QC935976	Soil	260513	06/14/18 13:29	1.0	3 2	
004	165_004	IB				06/14/18 14:07	1.0	2	
005	165_005	BLANK	QC935977	Soil	260513	06/14/18 14:45	1.0	2	
006	165_006	SAMPLE	300244-015	Soil	260513	06/14/18 15:36	1.0	2	
007	165_007	SAMPLE	300244-016	Soil	260513	06/14/18 16:14	1.0	2	
008	165_008	SAMPLE	300244-017	Soil	260513	06/14/18 16:51	1.0	2	
009	165_009	SAMPLE	300271-011	Soil	260513	06/14/18 17:29	1.0	2	
010	165_010	SAMPLE	300271-014	Soil	260513	06/14/18 18:06	1.0	2	
011	165_011	SAMPLE	300599-001	Soil	260513	06/14/18 18:44	1.0	2	
012	165_012	SAMPLE	300624-001	Soil	260513	06/14/18 19:22	1.0	2	
013	165_013	SAMPLE	300632-001	Soil	260513	06/14/18 19:59	1.0	2	
014	165_014	SAMPLE	300453-006	Soil	260513	06/14/18 20:37	1.0	2	
015	165_015	SAMPLE	300453-020	Soil	260513	06/14/18 21:15	1.0	2	
016	165_016	CCV	TVH			06/14/18 21:52	1.0	3 2	
017	165_017	X	CMARKER			06/14/18 22:30	1.0	1 2	
018	165_018	SAMPLE	300632-002	Soil	260513	06/14/18 23:07	1.0	2	
019	165_019	SAMPLE	300632-003	Soil	260513	06/14/18 23:45	1.0	2	
020	165_020	SAMPLE	300632-004	Soil	260513	06/15/18 00:23	1.0	2	
021	165_021	SAMPLE	300372-001	Soil	260513	06/15/18 01:00	1.0	2	
022	165_022	SAMPLE	300372-002	Soil	260513	06/15/18 01:38	1.0	2	
023	165_023	SAMPLE	300372-003	Soil	260513	06/15/18 02:15	1.0	2	
024	165_024	SAMPLE	300640-001	Soil	260513	06/15/18 02:53	1.0	2	
025	165_025	MSS	300561-006	Soil	260513	06/15/18 03:31	1.0	2	
026	165_026	SAMPLE	300561-007	Soil	260513	06/15/18 04:08	1.0	2	
027	165_027	SAMPLE	300561-008	Soil	260513	06/15/18 04:46	1.0	2	
028	165_028	CCV	TVH			06/15/18 05:23	1.0	3 2	
029	165_029	X	CMARKER			06/15/18 06:01	1.0	1 2	
030	165_030	MS	QC935996	Soil	260513	06/15/18 06:39	1.0	3 2	
031	165_031	MSD	QC935997	Soil	260513	06/15/18 07:16	1.0	3 2	
032	165_032	CCV	TVH			06/15/18 07:54	1.0	3 2	
033	165_033	X	CMARKER			06/15/18 08:31	1.0	1 2	

CJN 06/15/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 33.

Reviewed by: CJN Date: 06/15/18

Standards used: 1=S35319 2=S37192 3=S36848

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328184879

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/08/18 09:19
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	128_001	X	CMARKER			05/08/18 09:19	1.0	1 2	
002	128_002	CCV	TVH			05/08/18 09:58	1.0	3 2	
003	128_003	CCV/LCS	QC931207	Water	259308	05/08/18 10:36	1.0	4 2	
004	128_004	CCV	TVH			05/08/18 11:15	1.0	3 2	
005	128_005	CCV	BTXE			05/08/18 11:53	1.0	4 2	
006	128_006	BLANK	QC931206	Water	259308	05/08/18 12:31	1.0	2	
007	128_007	MSS	299300-001	Water	259308	05/08/18 15:18	1.0	2	headspace > 1 mL
008	128_008	CCV	BTXE			05/08/18 15:57	1.0	4 2	
011	128_011	IB				05/08/18 17:57	1.0	2	
012	128_012	IB				05/08/18 18:35	1.0	2	
013	128_013	IB				05/08/18 19:13	1.0	2	
014	128_014	IB				05/08/18 19:51	1.0	2	
015	128_015	IB				05/08/18 20:30	1.0	2	
016	128_016	IB	CALIB			05/08/18 21:08	1.0	2	
017	128_017	ICAL	TVH_14			05/08/18 21:46	1.0	5 2	
018	128_018	ICAL	TVH_15			05/08/18 22:25	1.0	6 2	
019	128_019	ICAL	TVH_16			05/08/18 23:03	1.0	7 2	
020	128_020	ICAL	TVH_17			05/08/18 23:42	1.0	8 2	
021	128_021	ICAL	TVH_18			05/09/18 00:20	1.0	8 2	
022	128_022	IB				05/09/18 00:58	1.0	2	
023	128_023	X	ICV			05/09/18 01:37	1.0	9 2	
024	128_024	ICV	TVH			05/09/18 02:15	1.0	9 2	
025	128_025	CMARKER				05/09/18 02:54	1.0	1 2	

Reviewed by: EAH Date: 06/19/18

Standards used: 1=S35319 2=S36233 3=S36103 4=S36185 5=S36893 6=S36892 7=S36891 8=S36890 9=S36894

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328229496

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 06/08/18 08:56
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	159_001	CCV/BS	QC935160		Soil	260316	06/08/18 08:56	1.0	1 2
002	159_002	CCV/BS	QC935474		Soil	260316	06/08/18 09:35	1.0	3 2
003	159_003	BSD	QC935161		Soil	260316	06/08/18 10:14	1.0	1 2
004	159_004	BSD	QC935475		Soil	260316	06/08/18 10:52	1.0	3 2
005	159_005	BLANK	QC935162		Soil	260316	06/08/18 11:30	1.0	2
006	159_006	SAMPLE	300480-004		Soil	260316	06/08/18 12:26	1.0	2
007	159_007	SAMPLE	300480-007		Soil	260316	06/08/18 13:04	1.0	2
008	159_008	SAMPLE	300480-012		Soil	260316	06/08/18 13:43	1.0	2
009	159_009	SAMPLE	300480-013		Soil	260316	06/08/18 14:21	1.0	2
010	159_010	SAMPLE	300480-011	M	Soil	260316	06/08/18 14:59	55.56	2
011	159_011	CCV	TVH				06/08/18 15:37	1.0	1 2
012	159_012	X	CMARKER				06/08/18 16:16	1.0	4 2
013	159_013	CCV	BTXE				06/08/18 16:54	1.0	3 2
014	159_014	IB					06/08/18 18:36	1.0	2
015	159_015	SAMPLE	300491-001		Soil	260316	06/08/18 21:05	1.0	2
016	159_016	SAMPLE	300453-001		Soil	260316	06/08/18 21:44	1.0	2
017	159_017	SAMPLE	300501-001		Soil	260316	06/08/18 22:22	1.0	2
018	159_018	SAMPLE	300454-001		Soil	260316	06/08/18 23:01	1.0	2
019	159_019	MSS	300474-001		Soil	260316	06/08/18 23:39	1.0	2
020	159_020	SAMPLE	300474-002		Soil	260316	06/09/18 00:17	1.0	2
021	159_021	SAMPLE	300475-001		Soil	260316	06/09/18 00:56	1.0	2
022	159_022	SAMPLE	300475-002		Soil	260316	06/09/18 01:34	1.0	2
023	159_023	MS	QC935226		Soil	260316	06/09/18 02:12	1.0	1 2
024	159_024	MSD	QC935227		Soil	260316	06/09/18 02:50	1.0	1 2
025	159_025	CCV	TVH				06/09/18 03:29	1.0	1 2
026	159_026	X	CMARKER				06/09/18 04:07	1.0	4 2
027	159_027	CCV	BTXE				06/09/18 04:45	1.0	3 2
028	159_028	SAMPLE	300453-002		Soil	260316	06/09/18 05:22	1.0	2
029	159_029	SAMPLE	300453-003		Soil	260316	06/09/18 06:01	1.0	2
030	159_030	SAMPLE	300453-004		Soil	260316	06/09/18 06:39	1.0	2
031	159_031	SAMPLE	300453-005		Soil	260316	06/09/18 07:17	1.0	2
032	159_032	SAMPLE	300453-006		Soil	260316	06/09/18 07:55	1.0	2
033	159_033	SAMPLE	300453-007		Soil	260316	06/09/18 08:34	1.0	2
034	159_034	SAMPLE	300453-008		Soil	260316	06/09/18 09:12	1.0	2
035	159_035	CCV	TVH				06/09/18 09:50	1.0	1 2
036	159_036	X	CMARKER				06/09/18 10:29	1.0	4 2

JM2 06/08/18 : Sharing CMarker with previous sequence, 12 hour window intact.

JM2 06/08/18 : Partial sequence for 300480.

JM2 06/08/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 12.

JM2 06/08/18 : 480-007 sample weight and pdf changed, 480-011 has the correct pdf and idf.

LW 06/08/18 : Reviewed through file 11

CJN 06/11/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 13 through 36.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328229496

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 06/08/18 08:56
SOP Version : TVH_BTXE_rv23

Reviewed by: CJN Date: 06/11/18

Standards used: 1=S36848 2=S37192 3=S36185 4=S36859

TITLE TVH/BTXE SOIL ALIQUOT PROJECT

DATE

Continued from page							
Sample	ID	Weight (g)	Method	Comments: Initials	Notes	Notes	Bal. ID
300474-1	MSD A	0.98		JMZ 6/7/18			B-6
300452-1	↓	1.08					
5 300467-1	D	1.02					
300455-3	A	0.94					
↓ -6	↓	0.97				comp of 455-(1,2)	
↓ -12	↓	1.03				↓ -(4,5)	
↓ -15	↓	1.07				↓ -(9-11)	
10 300476-1	A	1.01				↓ -(13,14)	
300452-1	MS ↓	1.04					
↓ -1	MSD ↓	1.05					
300482-1	↓	0.90					
300487-1	↓	0.93					
15 300480-1	C	MeOH 100 / 200 5000	can 6/5/18	NO CON 6/8/18			B-6
↓ -2	↓	200 / 5000					
↓ -3	↓	50 / 5000					
↓ -4	B	38.00 - 30.629 - 0.20 = 7.17					
↓ -5	C	MeOH 60 / 5000					
20 ↓ -6	C	↓ 30 / 5000	WPC 6/8/18				
↓ -7	B	38.30 - 30.646 - 0.20 = 38.10754					
↓ -8	C	MeOH 200 / 5000					
↓ -9	↓	75 / 5000					
↓ -10	↓	150 / 5000					
25 ↓ -11	↓	90 / 5000					
↓ -12	B	38.75 - 31.079 - 0.20 = 7.47					
↓ -13	↓	38.22 - 30.784 - 0.20 = 7.24					
300480-3	C	MeOH 25 / 5000		NO JMZ 6/8/18			B-6
↓ -6	↓	15 / 5000					
30 ↓ -9	↓	30 / 5000					
300480-1	C	MeOH 50 / 5000		NO CON 6/8/18			B-6
↓ -3	↓	25 / 5000					
↓ -5	↓	30 / 5000					
↓ -6	↓	15 / 5000					
35 ↓ -8	↓	200 / 5000					
↓ -9	↓	30 / 5000					
↓ -10	↓	75 / 5000					
↓ -11	↓	45 / 5000					
300467-1	A	0.95		NO JMZ 6/8/18		comp of 467-(C,D)	B-6
40 300523-1	↓	38.08 - 30.632 - 0.2 = 7.25					
↓ -2	↓	36.44 - 30.759 - 0.2 = 5.48					
↓ -3	↓	38.05 - 30.595 - 0.2 = 7.26					
300474-1	A	0.96					
↓ -1	MS ↓	1.05					
45 ↓ -1	MSD ↓	1.03					

Continued to page

SIGNATURE	DATE
DISCLOSED TO AND UNDERSTOOD BY	DATE
PROPRIETARY INFORMATION	

TITLE TVH/BTXE SOIL ALIQUOT PROJECT DATE

Continued from page		Weight (g)	Notes	Comments: Initials	Bat. ID
Sample	ID				
300479-2	A	0.92	No	JMZ 6/8/18	B-6
300475-1	I	0.90			
I -2	I	1.08			
300412-13	B	38.17 - 30.901 - 0.2 = 7.07			
I -21	I	37.89 - 30.605 - 0.2 = 7.09			
300449-1	B	36.72 - 30.948 - 0.2 = 5.57			
I -2	I	37.22 - 30.945 - 0.2 = 6.08			
I -3	A	37.13 - 30.977 - 0.2 = 5.95			
I -4	I	37.55 - 30.983 - 0.2 = 6.34			
I -5	I	35.67 - 30.639 - 0.2 = 4.83			
I -6	I	35.81 - 30.680 - 0.2 = 4.93			
300454-1	A	0.90			
300480-2	C	MeOH 25/5000			
300499-1	A	38.26 - 30.911 - 0.2 = 7.15	No	JMZ 6/8/18	B-6
I -2	I	38.74 - 30.840 - 0.2 = 7.70			
I -3	I	38.41 - 30.755 - 0.2 = 7.46			
I -4	I	38.76 - 30.802 - 0.2 = 7.76			
I -5	I	35.98 - 30.534 - 0.2 = 5.25			
300491-1	B	36.63 - 30.424 - 0.2 = 6.01			
300501-1	A	0.91			
300525-1	C	35.04 - 30.592 - 0.2 = 4.25			
300520-1	A	0.95			
I -1	MS	0.92			
I -1	MSD	0.91			
300500-1	B	1.03			
I -2	C	1.04			
300497-5	A	1.04		comp of 497 - (1-4)	
I -8	I	1.02		I - (6,7)	
I -12	I	0.94		I - (9-11)	
I -13	B	0.90			
I -18	A	0.96		comp of 497 - (14-17)	
I -19	B	1.04			
I -23	A	1.10		comp of 497 - (20-22)	
I -27	I	1.06		I - (24-26)	
I -30	I	0.99		I - (28,29)	
I -33	I	0.94		comp of 497 - (31), 435-7	
I -34	I	1.05		I - 32, 435-8	
300453-1	JMZ MS 6RM MSD	37.87 - 30.514 - 0.2 = 7.16	No	JMZ 6/8/18	B-6
I -2	I	37.24 - 30.819 - 0.2 = 6.22			
I -3	I	37.85 - 30.502 - 0.2 = 7.15			
I -4	I	37.43 - 30.606 - 0.2 = 6.62			
I -5	I	37.84 - 30.441 - 0.2 = 7.20			
I -6	I	38.30 - 30.827 - 0.2 = 7.27			

Continued to page

SIGNATURE _____ DATE _____

DISCLOSED TO AND UNDERSTOOD BY _____ DATE _____

PROPRIETARY INFORMATION

PROJECT S035 MeOH Prep L of

Bal. ID	Date & initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments	Bal. ID	
	5/25/18 AMF	300019-8 E	6.38	10.0	DP303	38.40	31.825	-0.20	client prepped	B-8
	↓	↓ -10 ↓	6.10	↓	↓	38.15	31.855	↓	↓	↓
	5/25/18 JMC	300019-2 E	7.09	5.0	DP303	39.45	32.16	-0.2	client prepped	B-6
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
	5/29/18 Zia	300118-1 E	6.26	5.0	DQ538	35.36	28.54	-0.56	Client Prepped	B-8
	5/29/18 JMC	300019-2 E	3.17	10.0	DP303	35.53	32.16	-0.2	client prepped	B-6
	5/30/18 Zia	300177-1 C	5.71	5.0	DP303	33.78	27.867	-0.2	client prepped	B-8
	↓	↓ -2 ↓	6.08	↓	↓	34.15	27.874	↓	↓	↓
	↓	↓ -3 ↓	5.40	↓	↓	34.16	28.558	↓	↓	↓
	↓	↓ -4 ↓	5.78	↓	↓	34.34	28.359	↓	↓	↓
	5/30/18 JMC	300139-1 JMC 300118-8 JMC 300177-7 C	6.95	5.0	DQ538	35.70	28.559	-0.2	client prepped	B-6
	↓	↓ -3C	7.32	↓	↓	35.65	28.135	-0.2	client prepped	↓
	5/31/18 AMT	300223-3C	7.06	5.0	↓	35.78	28.522	-0.2	↓	B-8
	↓	↓ -4C	6.06	↓	↓	34.58	28.324	-0.2	↓	↓
	6/7/18 Zia	300446-1 E	4.85	5.0	DJ239	33.29	28.239	-0.2	↓	↓
	6/8/18 AMF	300480-1 C	6.19 6.07	5.0	DQ538	35.20	28.327	-0.20	client prepped	B-8
	↓	↓ -2	7.14	↓	↓	35.63	28.286	↓	↓	↓
	↓	↓ -3	7.11	↓	↓	35.85	28.54	↓	↓	↓
	↓	↓ -4	6.86	↓	↓	35.34	28.285	↓	↓	↓
	↓	↓ -5	6.29	↓	↓	34.84	28.349	↓	↓	↓
	↓	↓ -6	6.98	↓	↓	35.43	28.247	↓	↓	↓
	↓	↓ -7	7.39	↓	↓	36.07	28.482	↓	↓	↓
	↓	↓ -8	7.06	↓	↓	35.47	28.214	↓	↓	↓
	↓	↓ -9	6.39	↓	↓	34.95	28.360	↓	↓	↓
	↓	↓ -10	7.06	↓	↓	35.62	28.357	↓	↓	↓
	↓	↓ -11	6.78	↓	↓	35.57	28.591	↓	↓	↓
	↓	↓ -12	6.69	↓	↓	35.26	28.368	↓	↓	↓
	↓	↓ -13 ↓	6.86	↓	↓	35.48	28.422	↓	↓	↓

Continued on Page _____

Read and Understood By _____

Signed _____

Date _____

Signed _____

Date _____

TITLE	Sample	ID	Weight (g)	PROJECT	MHS04	Comments: Initials	DATE
Continued from page							
	300453-7	A	38.29 - 30.871 - 0.2 = 7.22		No	JM2 6/8/18	B-6
	↓ -8	↓	37.81 - 30.734 - 0.2 = 6.88		↓	↓	↓
	Prep Blk	-	MeOH		↓	PAW 6/10/18	B-8
5	300519-2	A	↓ ^{PAW} 5/5000 ^{10/5000}		↓	↓	↓
	300497-34	A	0.95		No	JM2 6/11/18	Comp of 497-32, 455-8 B-6
	300500-1	B	1.08				
	↓ -2	C	0.91				
	300490-1	A	1.09				
10	300497-34 MS	↓	0.99			Comp of 497-32, 455-8	
	↓ -34 MSD	↓	0.91			↓	
	300400-1	A	MeOH 1/5000				
	↓ -2	↓	↓				
	↓ -3	↓	↓				
15	300453-3	B	38.21 - 30.742 - 0.2 = 7.27				
	↓ -4	↓	38.59 - 30.777 - 0.2 = 7.61				
	↓ -6	↓	36.84 - 30.689 - 0.2 = 5.95				
	↓ -8	↓	37.57 - 30.866 - 0.2 = 6.50				
	↓ -9	A	36.21 - 30.686 - 0.2 = 5.32				
20	↓ -10	↓	38.08 - 30.764 - 0.2 = 7.12				
	↓ -11	↓	37.87 - 30.757 - 0.2 = 6.91				
	↓ -12	↓	38.40 - 30.942 - 0.2 = 7.26				
	↓ -15	↓	38.18 - 30.599 - 0.2 = 7.38				
	↓ -16	↓	38.70 - 30.778 - 0.2 = 7.72				
25	↓ -17	↓	38.26 - 30.708 - 0.2 = 7.35				
	↓ -18	↓	38.08 - 30.859 - 0.2 = 7.02				
	↓ -19	↓	37.89 - 30.351 - 0.2 = 7.34				
	↓ -20	↓	38.03 - 30.660 - 0.2 = 7.17				
	↓ -21	↓	37.91 - 30.990 - 0.2 = 6.72				
30	↓ -22	↓	38.97 - 30.893 - 0.2 = 7.38				
	↓ -23	↓	38.02 - 30.846 - 0.2 = 6.97				
	↓ -24	↓	37.86 - 30.979 - 0.2 = 6.68				
	300412-21	E	0.92				
	300490-1 MS	A	0.97				
35	↓ -1 MSD	↓	1.06				
	300565-1	A	0.95				
	300540-2	A	1.05			Comp Containers C+D	
	300543-1	A	0.98				
	300559-3	A	1.03			Comp 559-(1,2)	
40	300542-5	↓	1.00			542-(1-4)	
	↓ -10	↓	1.02			↓ - (6-9)	
	↓ -15	↓	1.02			↓ - (11-14)	
	↓ -18	↓	1.09			↓ - (16,17)	
	300574-4	↓	0.96			544-(1-3)	
45	↓ -8	↓	1.02			↓	
SIGNATURE					DATE		
DISCLOSED TO AND UNDERSTOOD BY				DATE		PROPRIETARY INFORMATION	

TITLE TVH/BTXESOLLALIQUOT PROJECT

DATE

Continued from page		ID	Weight (g)	Nature	Comments	Initials	Ball ID
Sample							
300580-1	MS	C	0.95	NO	CTN	6/8/18	B-6
↓ -1	MSD	E	0.94				
↓ -2		B	0.97				
↓ -3			0.90				
↓ -4			1.06				
↓ -5			0.99				
↓ -6			0.99				
↓ -7			1.10				
↓ -8			1.07				
↓ -9			0.99				
300453-6		E	1.03	No	JM	6/13/18	B-6
↓ -20		L	0.94				
300573-1		A	1.05				
300600-5		L	1.01		comp of 600-(1-9)		
↓ -10			1.01		↓ -(6-9)		
300601-1		B	0.97				
↓ -2			1.01				
↓ -3			0.97				
↓ -4			1.07				
↓ -5			0.97				
300603-1		A	0.93				
↓ -2		L	1.07				
300601-2	MS	B	1.00	No	JM	6/13/18	B-6
↓ -2	MSD	L	0.91				
300603-1	MS	A	0.96				
↓ -1	MSD	L	0.97				
300629-5		A	0.92				
↓ -6			0.99				
↓ -7			0.92				
↓ -8			0.97				
↓ -9			1.05		comp 629-(1-9)		
300634-1			0.98				
↓ -2			0.92				
↓ -3			1.05				
↓ -4			0.94				
↓ -5			0.96				
↓ -6			1.00				
300639-31		E	0.97				
300640-1		A	0.98				
300641-1		L	0.99				
↓ -2			1.07				
300599-1		A	35.60 - 30.699 - 0.2 = 4.70				
300624-1		L	39.59 - 30.901 - 0.2 = 8.49				

Continued to page

SIGNATURE _____ DATE _____

DISCLOSED TO AND UNDERSTOOD BY _____ DATE _____

PROPRIETARY INFORMATION

TITLE TVH/BTXE SOIL ALIQUOT PROJECT

DATE

Continued from page	Sample	ID	Weight (g)	Moisture	Comments: Initials	Box ID
	300632-1	A	37.03 - 30.742 - 0.2 = 6.09	No	JMR 6/15/18	B-6
	-2	|	36.33 - 30.532 - 0.2 = 5.60	|	|	|
5	-3	|	36.93 - 30.915 - 0.2 = 5.82	|	|	|
	-4	|	36.25 - 30.535 - 0.2 = 5.52	|	|	|
	300244-1	B	37.72 - 30.769 - 0.20 = 6.30	NO	CJN 6/14/18	B-6
	-2	|	37.70 - 30.821 = 6.68	|	|	|
	-3	|	36.24 - 30.306 = 6.53	|	|	|
10	-4	|	37.35 - 30.947 = 6.70	|	|	|
	-5	|	37.65 - 30.581 = 6.87	|	|	|
	-6	|	37.81 - 30.753 = 6.86	|	|	|
	-7	|	37.99 - 30.680 = 7.11	|	|	|
	-8	|	37.92 - 31.096 = 6.62	|	|	|
15	-9	|	38.21 - 30.530 = 7.48	|	|	|
	-10	|	37.70 - 30.466 = 7.03	|	|	|
	-11	|	37.91 - 30.808 = 6.90	|	|	|
	-12	|	38.60 - 30.741 = 7.66	|	|	|
	-13	|	37.11 - 30.618 = 6.29	|	|	|
20	-14	|	37.59 - 30.820 = 6.57	|	|	|
	-15	|	37.61 - 30.949 = 6.46	|	|	|
	-16	|	37.14 - 30.940 = 6.00	|	|	|
	-17	|	37.19 - 30.689 = 6.30	|	|	|
	300271-1	A	36.53 - 30.320 - 0.20 = 6.01		CJN 6/14/18	
25	-2	|	37.69 - 30.492 = 7.00			
	-3	|	37.25 - 30.430 = 6.62			
	-4	|	37.10 - 30.733 = 6.17			
	-5	|	37.27 - 30.294 = 6.78			
	-6	|	36.54 - 30.644 = 5.70			
30	-7	|	38.07 - 30.568 = 7.30			
	-8	|	37.05 - 30.884 = 5.97			
	-9	|	37.59 - 30.858 = 6.53			
	-10	|	37.45 - 30.879 = 6.37			
	-11	|	36.93 - 30.429 = 6.30			
35	-14	|	37.06 - 30.603 = 6.26			
	300559-3	A	0.97		Comp 1,2	
	300629-5	A	1.03			
	-6	|	0.92			
	-7	|	0.99			
40	-8	|	1.00			
	-9	|	1.05		Comp 1-4	
	300500-1	B	0.95			
	-2	C	0.98			
	300453-6	E	1.05			
45	-20	F	1.04			

SIGNATURE

DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE TVH/BTXE SOIL ALIQUOT PROJECT DATE

Continued from page	Sample	(M)	Weight (g)	NatNO	Comment: Initials	Bal ID
	300603-1	A	1.04	NO	OTN 6/14/18	B-6
	-2	↓	1.06			
5	300561-6	A	1.09			
	-6 MS	|	0.92			
	-6 MSO	|	1.09			
	-7	|	1.00			
	-8	↓	0.98			
10	300573-1	A	1.09			
	300576-1	A	1.06			
	-2	↓	1.02			
	300575-1	A	1.09			
	300372-1	A	37.93-31.014-0.20 =			6.72
15	-2	|	37.90-30.936 =			6.76
	-3	|	37.52-30.709 =			6.61
	-4	|	37.44-30.514 =			6.73
	-5	|	36.86-30.869 =			6.79
	-6	|	37.19-30.907 =			6.08
20	-7	|	37.28-30.824 =			6.28
	-8	|	36.68-30.264 =			6.22
	-9	|	38.15-30.733 =			7.22
	-10	|	37.32-30.919 =			6.12
	-11	|	37.82-30.846 =			6.27
25	-12	|	37.28-30.540 =			6.54
	-13	|	37.38-30.734 =			6.45
	-14	|	36.57-30.555 =			5.82
	-15	|	37.12-30.884 =			6.04
	-16	↓	36.75-30.573 =			5.98
30	300396-1	A	35.99-30.540-0.20 =			5.25
	-2	|	37.45-30.886 =			6.36
	-3	|	36.62-30.523 =			5.90
	-4	|	37.60-30.772 =			6.63
	-5	|	37.77-36.613 =			6.96
35	-6	|	37.56-30.700 =			6.60
	-7	|	37.77-36.754 =			6.82
	-8	|	36.99-30.766 =			6.02
	-9	|	38.68-30.758 =			7.72
	-10	|	36.22-30.465 =			5.56
40	-11	↓	37.18-30.720 =			6.26
	300439-1	A	37.05-30.812-0.20 =			6.04
	-2	|	37.34-30.486 =		OTN 6/14/18	6.645
	-3	|	37.87-30.716 =			6.95
	-4	|	37.19-30.040 =			6.95
45	-5	↓	37.00-30.571 =			6.23

SIGNATURE

DATE

Continued to page ↓

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

Laboratory Job Number 300453

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Water

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	260379
Units:	ug/L	Sampled:	06/06/18
Diln Fac:	1.000	Received:	06/06/18

Field ID: BR11-1SB017[W] Prepared: 06/12/18
 Type: SAMPLE Analyzed: 06/13/18
 Lab ID: 300453-013

Analyte	Result	RL	MDL
Diesel C10-C24	470 Y Z	50	16
Motor Oil C24-C36	360 Y Z	300	96
Bunker C C12-C40	1,600	300	

Surrogate	%REC	Limits
o-Terphenyl	88	58-123

Field ID: BR11-1SB015[W] Prepared: 06/12/18
 Type: SAMPLE Analyzed: 06/13/18
 Lab ID: 300453-014

Analyte	Result	RL	MDL
Diesel C10-C24	130 Y	50	16
Motor Oil C24-C36	120 J Y Z	300	96
Bunker C C12-C40	520 Y	300	

Surrogate	%REC	Limits
o-Terphenyl	89	58-123

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	260379
Units:	ug/L	Sampled:	06/06/18
Diln Fac:	1.000	Received:	06/06/18

Field ID: BR11-1SB018[3]RB018[5] Prepared: 06/12/18
 Type: SAMPLE Analyzed: 06/13/18
 Lab ID: 300453-025

Analyte	Result	RL	MDL
Diesel C10-C24	18 J Y	50	16
Motor Oil C24-C36	ND	300	96
Bunker C C12-C40	ND	300	

Surrogate	%REC	Limits
o-Terphenyl	90	58-123

Type: BLANK Prepared: 06/11/18
 Lab ID: QC935403 Analyzed: 06/12/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96
Bunker C C12-C40	ND	300	

Surrogate	%REC	Limits
o-Terphenyl	96	58-123

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	260379
Units:	ug/L	Prepared:	06/11/18
Diln Fac:	1.000	Analyzed:	06/12/18

Type: BS Lab ID: QC935404

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,223	89	56-120

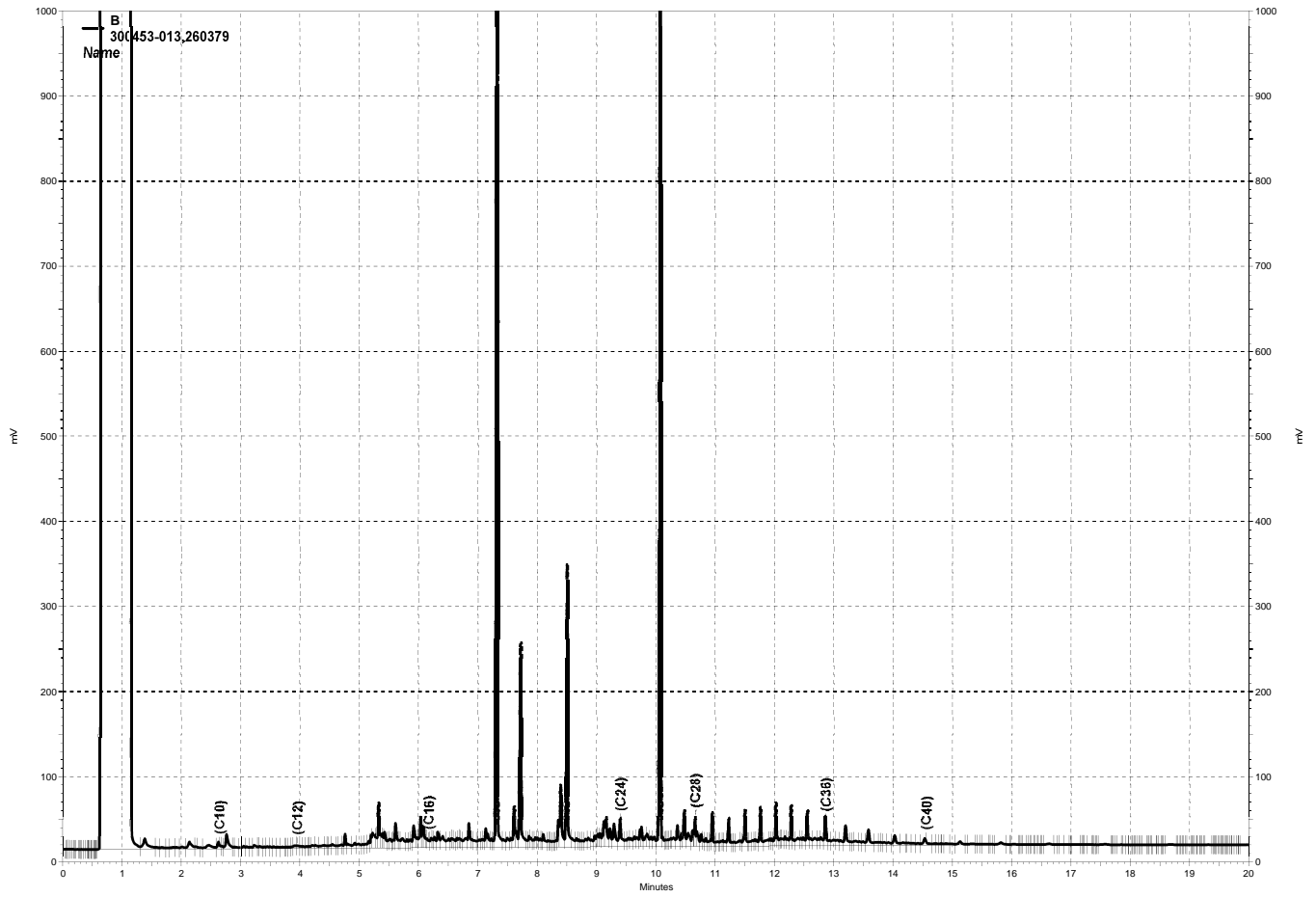
Surrogate	%REC	Limits
o-Terphenyl	94	58-123

Type: BSD Lab ID: QC935405

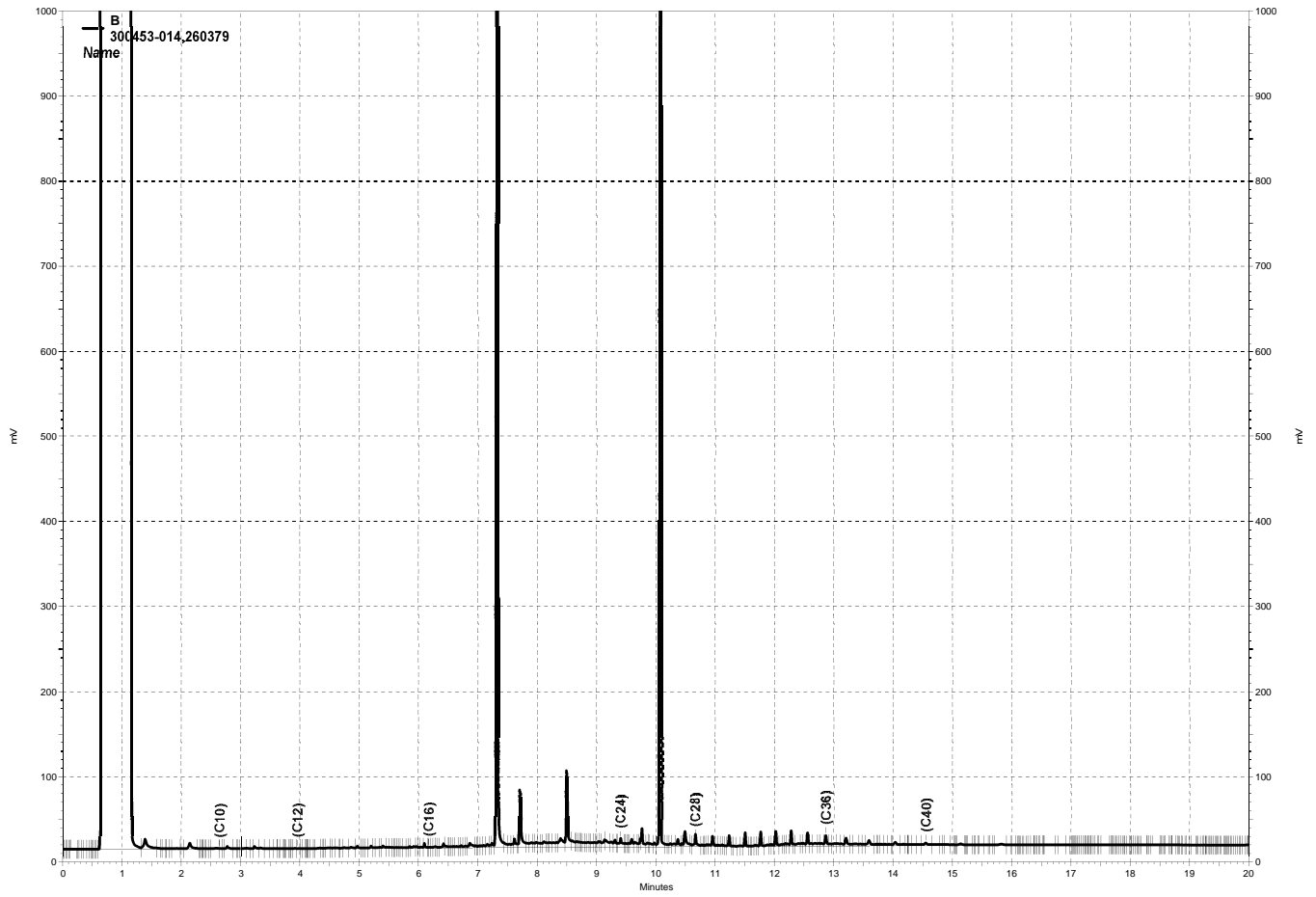
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,218	89	56-120	0	28

Surrogate	%REC	Limits
o-Terphenyl	94	58-123

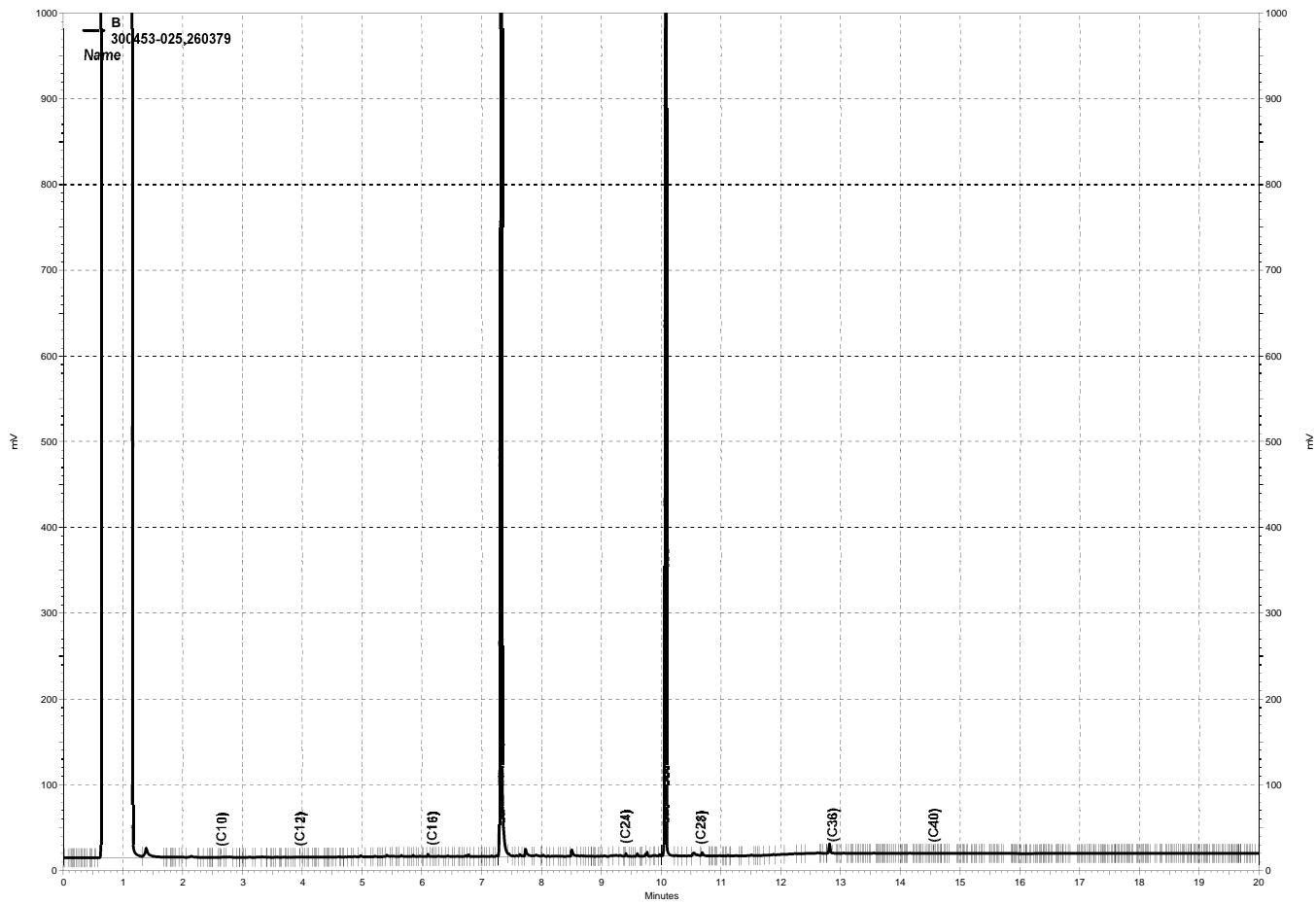
RPD= Relative Percent Difference



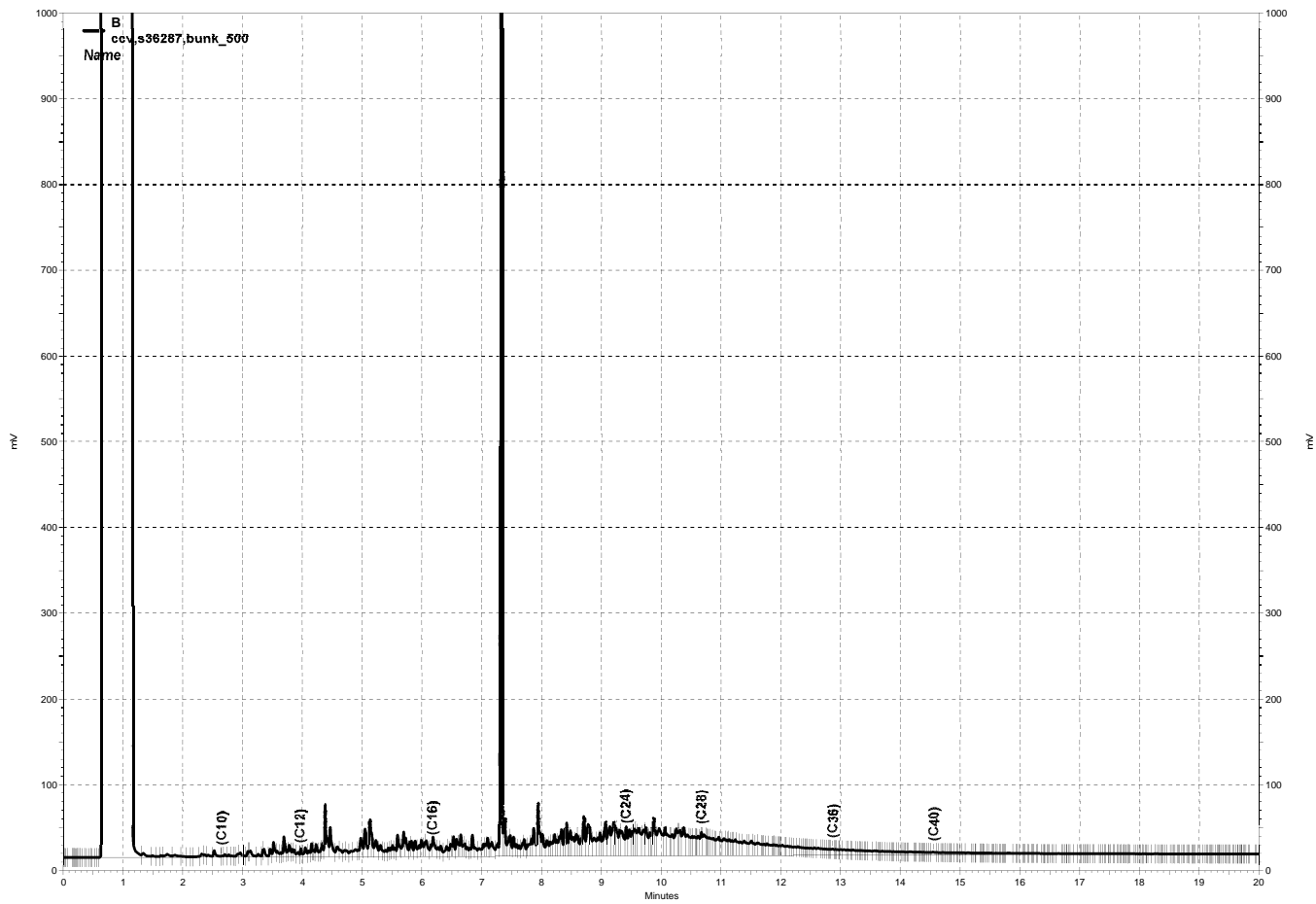
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\164b009, B



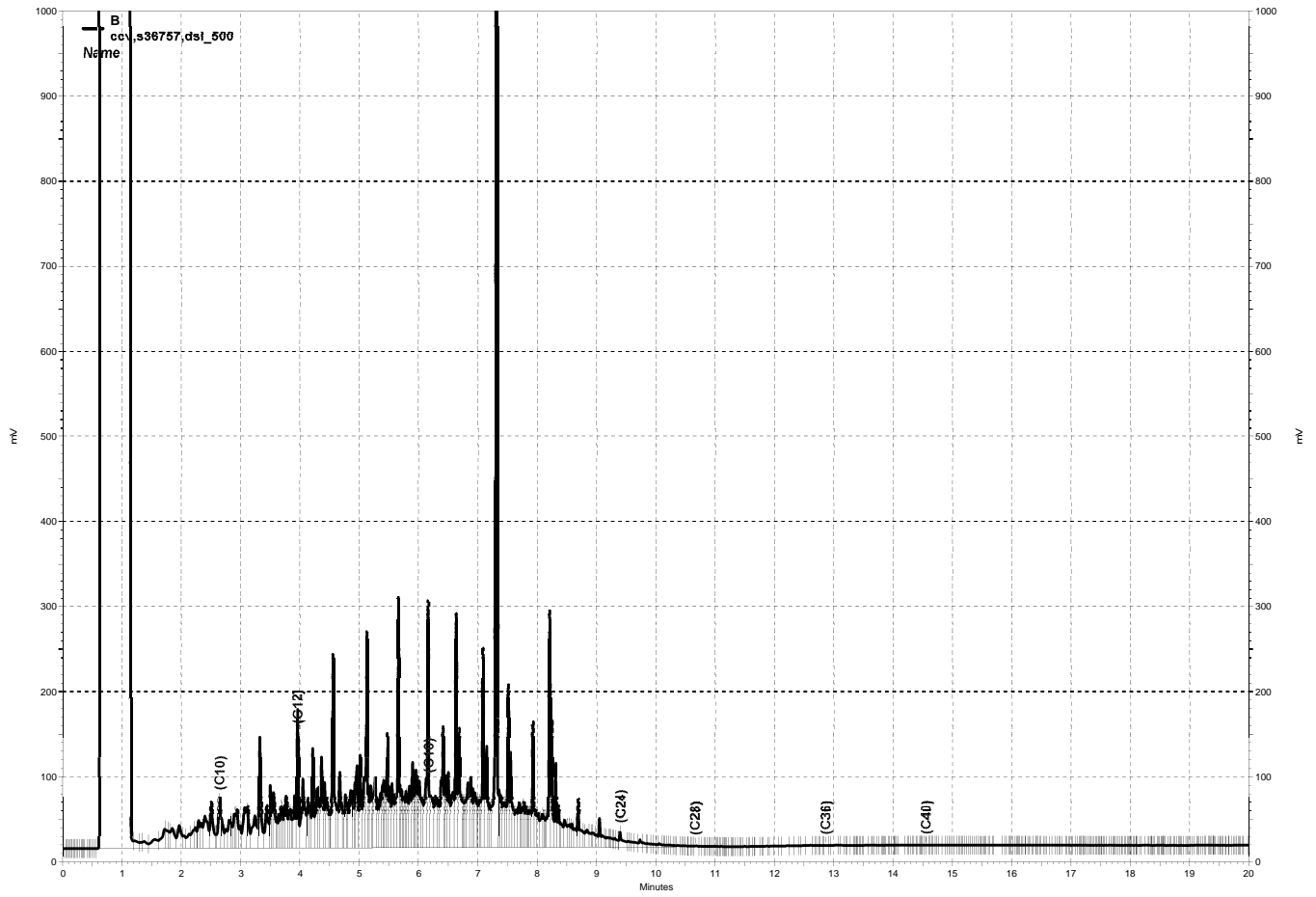
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\164b010, B



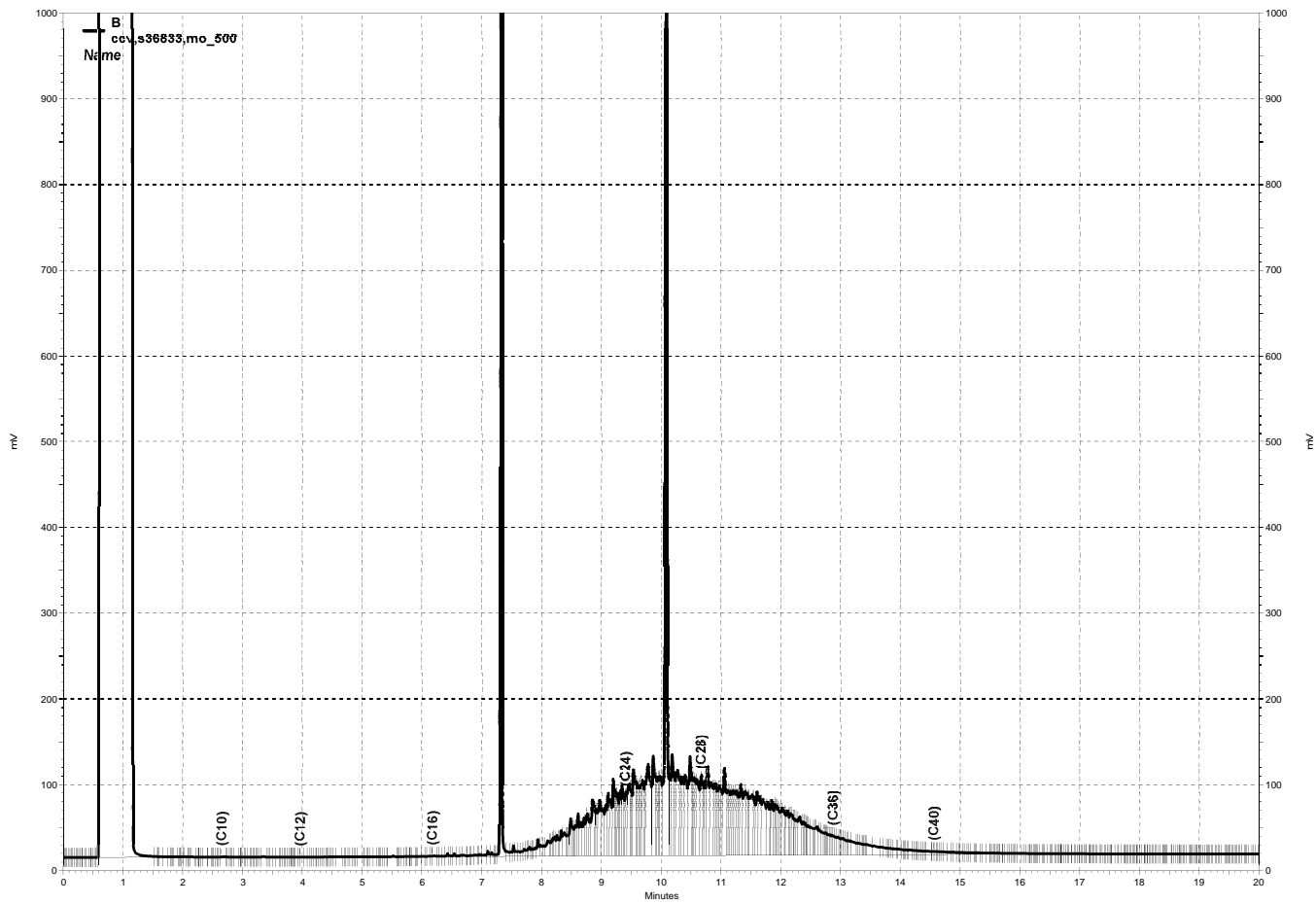
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\164b011, B



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\163b005, B



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\163b003, B



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\163b004, B

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 300453 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228112705001
 Units : mg/L

Name : BUNK_078 5 pt
 Date : 19-MAR-2018 18:08
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	078_015	228112705015	BUNK_50	19-MAR-2018 18:08	S35500
L2	078_016	228112705016	BUNK_250	19-MAR-2018 18:37	S35501
L3	078_017	228112705017	BUNK_500	19-MAR-2018 19:06	S35502
L4	078_018	228112705018	BUNK_1250	19-MAR-2018 19:35	S35503
L5	078_019	228112705019	BUNK_2500	19-MAR-2018 20:04	S35504
L6	078_020	228112705020	BUNK_5000	19-MAR-2018 20:34	S35499

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Bunker C C12-C40	B	16353	20860	21971	17514	21271	21612	AVRG		5.02E-5		19930	12	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Bunker C C12-C40	B	50.000	-18	250.00	5	500.00	10	1250.0	-12	2500.0	7	5000.0	8

WA1 03/20/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1 Date: 03/20/18 Reviewer: EAH Date: 03/20/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300453 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228163090001
 Units : mg/L

Name : HEXOTP_113
 Date : 24-APR-2018 17:47
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_058	228163090058	HEX OTP_5	24-APR-2018 17:47	S36499
L2	113_059	228163090059	HEX OTP_10	24-APR-2018 18:15	S36500
L3	113_060	228163090060	HEX OTP_25	24-APR-2018 18:43	S36501
L4	113_061	228163090061	HEX OTP_50	24-APR-2018 19:10	S36502
L5	113_062	228163090062	HEX OTP_100	24-APR-2018 19:38	S36503
L6	113_063	228163090063	HEX OTP_200	24-APR-2018 20:06	S36504

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	53564	53868	53293	52451	51731	53994	AVRG		1.88E-5		53150	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	5.0000	1	10.000	1	25.000	0	50.000	-1	100.00	-3	200.00	2

CB1 04/25/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300453 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300453 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

ENTHALPY INITIAL CALIBRATION FOR 300453 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228235022003 File : 163_003 Time : 12-JUN-2018 05:59
 Standards: S36757

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	42456	500.0	471.7	mg/L	-6	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	52656	50.00	49.54	mg/L	-1	15	

CB1 06/12/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228235022004 File : 163_004 Time : 12-JUN-2018 06:27
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	29065	500.0	489.1	mg/L	-2	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	50306	50.00	47.32	mg/L	-5	15	

CB1 06/12/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 228235022005 File : 163_005 Time : 12-JUN-2018 06:56
 Standards: S36287

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	228112705001	19-MAR-2018	19930	18401	500.0	461.6	mg/L	-8	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	51425	50.00	48.38	mg/L	-3	15	

CB1 06/12/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228235022012 File : 163_012 Time : 12-JUN-2018 13:33
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	40499	1000	900.0	mg/L	-10	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	51100	50.00	48.07	mg/L	-4	15	

WA1 06/12/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228235022013 File : 163_013 Time : 12-JUN-2018 14:02
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	27977	500.0	470.8	mg/L	-6	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	48614	50.00	45.73	mg/L	-9	15	

WA1 06/12/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 228235022014 File : 163_014 Time : 12-JUN-2018 14:30
 Standards: S36287

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	228112705001	19-MAR-2018	19930	16987	500.0	426.2	mg/L	-15	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	47660	50.00	44.84	mg/L	-10	15	

WA1 06/12/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/12/18 Reviewer: EAH Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228236556004 File : 164_004 Time : 13-JUN-2018 08:02
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	29216	500.0	491.6	mg/L	-2	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	51364	50.00	48.32	mg/L	-3	15	

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/14/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 228236556005 File : 164_005 Time : 13-JUN-2018 08:31
 Standards: S36287

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	228112705001	19-MAR-2018	19930	18847	500.0	472.8	mg/L	-5	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	53872	50.00	50.68	mg/L	1	15	

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/14/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228236556012 File : 164_012 Time : 13-JUN-2018 12:23
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	41667	1000	925.9	mg/L	-7	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	52819	50.00	49.69	mg/L	-1	15	

CB1 06/13/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/14/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228236556013 File : 164_013 Time : 13-JUN-2018 12:52
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	28840	500.0	485.3	mg/L	-3	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	50119	50.00	47.15	mg/L	-6	15	

WA1 06/13/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/13/18 Reviewer: EAH Date: 06/14/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228112705

Instrument : GC14B
 Method : EPA 8015B

Begun : 03/19/18 06:25
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	078_001	IB				03/19/18 06:25	1.0	
002	078_002	IB				03/19/18 06:53	1.0	
003	078_003	X	CMARKER			03/19/18 07:21	1.0	1
004	078_004	CCV	DSL_500			03/19/18 07:50	1.0	2
005	078_005	CCV	MO_500			03/19/18 08:18	1.0	3
006	078_006	CCV	BUNK_500			03/19/18 08:47	1.0	4
007	078_007	IB				03/19/18 13:42	1.0	
008	078_008	X	CMARKER			03/19/18 14:11	1.0	1
009	078_009	XCCV	DSL_500			03/19/18 14:40	1.0	2
010	078_010	XCCV	MO_500			03/19/18 15:09	1.0	3
011	078_011	CCV	DSL_500			03/19/18 16:08	1.0	2
012	078_012	CCV	MO_500			03/19/18 16:37	1.0	3
013	078_013	IB				03/19/18 17:10	1.0	
014	078_014	IB	CALIB			03/19/18 17:39	1.0	
015	078_015	ICAL	BUNK_50			03/19/18 18:08	1.0	5
016	078_016	ICAL	BUNK_250			03/19/18 18:37	1.0	6
017	078_017	ICAL	BUNK_500			03/19/18 19:06	1.0	7
018	078_018	ICAL	BUNK_1250			03/19/18 19:35	1.0	8
019	078_019	ICAL	BUNK_2500			03/19/18 20:04	1.0	9
020	078_020	ICAL	BUNK_5000			03/19/18 20:34	1.0	10
021	078_021	IB	CALIB			03/19/18 21:03	1.0	
022	078_022	CMARKER	C8-C50			03/19/18 21:32	1.0	1
023	078_023	IB	CALIB			03/19/18 22:01	1.0	

CB1 03/19/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 7.

WA1 03/19/18 : X out CCV at position 9 and 10 due to lose glass connector.

WA1 03/20/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 8 through 23.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	113_001	IB					04/23/18 06:10	1.0	
002	113_002	IB					04/23/18 06:38	1.0	
003	113_003	X	CMARKER				04/23/18 07:06	1.0	1
004	113_004	CCV	DSL_500				04/23/18 07:34	1.0	2
005	113_005	CCV	MO_500				04/23/18 08:35	1.0	3
006	113_006	CCV	DSL_500				04/23/18 09:02	1.0	2
007	113_007	IB					04/23/18 12:40	1.0	
008	113_008	X	CMARKER				04/23/18 13:07	1.0	1
009	113_009	CCV	DSL_500				04/23/18 13:35	1.0	2
010	113_010	CCV	MO_500				04/23/18 14:03	1.0	3
012	113_012	IB					04/23/18 15:27	1.0	
013	113_013	SAMPLE	299115-001		Soil	258772	04/23/18 16:57	1.0	
014	113_014	SAMPLE	299115-002		Soil	258772	04/23/18 17:25	1.0	
015	113_015	SAMPLE	299115-003		Soil	258772	04/23/18 17:53	1.0	
016	113_016	SAMPLE	299115-004		Soil	258772	04/23/18 18:20	1.0	
017	113_017	SAMPLE	299056-001		Soil	258772	04/23/18 18:48	2.0	
018	113_018	IB					04/23/18 19:16	1.0	
019	113_019	SAMPLE	299117-001		Soil	258772	04/23/18 19:44	1.0	
020	113_020	SAMPLE	299117-002		Soil	258772	04/23/18 20:11	1.0	
021	113_021	MS	QC929007	S	Soil	258726	04/23/18 20:39	1.0	
022	113_022	MSD	QC929008	S	Soil	258726	04/23/18 21:07	1.0	
023	113_023	IB					04/23/18 21:35	1.0	
024	113_024	CCV	DSL_250				04/23/18 22:03	1.0	4
025	113_025	CCV	MO_500				04/23/18 22:31	1.0	3
026	113_026	X	CMARKER				04/23/18 22:59	1.0	1
027	113_027	BLANK	QC929171		Soil	258772	04/23/18 23:27	1.0	
028	113_028	LCS	QC929172		Soil	258772	04/23/18 23:55	1.0	
029	113_029	MSS	299056-002		Soil	258772	04/24/18 00:23	1.0	
030	113_030	MS	QC929173		Soil	258772	04/24/18 00:51	1.0	
031	113_031	MSD	QC929174		Soil	258772	04/24/18 01:19	1.0	
032	113_032	SAMPLE	299118-001		Soil	258772	04/24/18 01:47	1.0	
033	113_033	SAMPLE	299119-001		Soil	258772	04/24/18 02:14	1.0	
034	113_034	IB					04/24/18 02:42	1.0	
035	113_035	SAMPLE	299126-001		Soil	258772	04/24/18 03:10	1.0	
036	113_036	SAMPLE	299126-002		Soil	258772	04/24/18 03:38	1.0	
037	113_037	SAMPLE	299116-001		Soil	258772	04/24/18 04:06	1.0	
038	113_038	SAMPLE	299116-002		Soil	258772	04/24/18 04:34	1.0	
039	113_039	IB					04/24/18 05:02	1.0	
040	113_040	CCV	DSL_500				04/24/18 05:30	1.0	2
041	113_041	CCV	MO_500				04/24/18 05:58	1.0	3
042	113_042	X	CMARKER				04/24/18 06:26	1.0	1
043	113_043	SAMPLE	299056-005		Soil	258786	04/24/18 07:10	1.0	
044	113_044	SAMPLE	299056-006		Soil	258786	04/24/18 07:38	1.0	
045	113_045	SAMPLE	299055-001		Soil	258786	04/24/18 08:10	1.0	
046	113_046	SAMPLE	299055-002		Soil	258786	04/24/18 08:38	1.0	
047	113_047	SAMPLE	299055-004		Soil	258786	04/24/18 09:06	1.0	
048	113_048	SAMPLE	299055-005		Soil	258786	04/24/18 09:34	1.0	
049	113_049	SAMPLE	299055-006		Soil	258786	04/24/18 10:02	1.0	
050	113_050	SAMPLE	299055-007		Soil	258786	04/24/18 10:30	1.0	
051	113_051	CCV	DSL_1000				04/24/18 10:58	1.0	5
052	113_052	CCV	MO_500				04/24/18 11:26	1.0	3
053	113_053	X	CMARKER				04/24/18 11:54	1.0	1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B Begun : 04/23/18 06:10
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	113_054	CCV	DSL_1000				04/24/18 12:22	1.0	5
055	113_055	CCV	DSL_1000				04/24/18 12:50	1.0	5
056	113_056	IB					04/24/18 16:52	1.0	
057	113_057	IB	CALIB				04/24/18 17:20	1.0	
058	113_058	ICAL	HEX OTP_5				04/24/18 17:47	1.0	6
059	113_059	ICAL	HEX OTP_10				04/24/18 18:15	1.0	7
060	113_060	ICAL	HEX OTP_25				04/24/18 18:43	1.0	8
061	113_061	ICAL	HEX OTP_50				04/24/18 19:10	1.0	9
062	113_062	ICAL	HEX OTP_100				04/24/18 19:38	1.0	10
063	113_063	ICAL	HEX OTP_200				04/24/18 20:06	1.0	11
064	113_064	IB	CALIB				04/24/18 20:33	1.0	
065	113_065	ICAL	DSL_10				04/24/18 21:01	1.0	12
066	113_066	ICAL	DSL_100				04/24/18 21:29	1.0	13
067	113_067	ICAL	DSL_500				04/24/18 21:57	1.0	14
068	113_068	ICAL	DSL_1000				04/24/18 22:25	1.0	15
069	113_069	ICAL	DSL_5000				04/24/18 22:53	1.0	16
070	113_070	IB	CALIB				04/24/18 23:21	1.0	
071	113_071	ICV	DSL_500				04/24/18 23:49	1.0	17
072	113_072	IB	CALIB				04/25/18 00:17	1.0	
073	113_073	ICAL	MO_50				04/25/18 00:45	1.0	18
074	113_074	ICAL	MO_250				04/25/18 01:13	1.0	19
075	113_075	ICAL	MO_500				04/25/18 01:41	1.0	20
076	113_076	ICAL	MO_1000				04/25/18 02:09	1.0	21
077	113_077	ICAL	MO_2500				04/25/18 02:37	1.0	22
078	113_078	ICAL	MO_5000				04/25/18 03:05	1.0	22
079	113_079	IB	CALIB				04/25/18 03:33	1.0	
080	113_080	CMARKER	C8-C50				04/25/18 04:01	1.0	23
081	113_081	IB	CALIB				04/25/18 04:29	1.0	

CB1 04/25/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 81.

CB1 04/23/18 : Hardware failure (bent syringe) for run at position 4, RR DSL opening CCV.

WA1 04/23/18 : Position 11 was mis-injected.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S35149 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S36610 13=S36611 14=S36613 15=S36615 16=S36609 17=S35164 18=S34924 19=S34925 20=S34926 21=S34927 22=S34923
 23=S35483

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228223554

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/04/18 05:54
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	155_001	IB				06/04/18 05:54	1.0	
002	155_002	CCV	DSL_500			06/04/18 06:22	1.0	1
003	155_003	CCV	MO_500			06/04/18 06:51	1.0	2
004	155_004	X	CMARKER			06/04/18 07:19	1.0	3
005	155_005	CCV	JET_250			06/04/18 08:37	1.0	4
006	155_006	BLANK	QC934363	Water	260120	06/04/18 11:26	1.0	
007	155_007	BS	QC934364	Water	260120	06/04/18 11:54	1.0	
008	155_008	BSD	QC934365	Water	260120	06/04/18 12:23	1.0	
009	155_009	SAMPLE	300258-001	Water	260120	06/04/18 12:51	1.0	
010	155_010	CCV	DSL_1000			06/04/18 13:19	1.0	5
011	155_011	CCV	MO_500			06/04/18 14:54	1.0	2
012	155_012	CCV	JET_250			06/04/18 15:23	1.0	4
013	155_013	X	CMARKER			06/04/18 15:51	1.0	3
014	155_014	IB				06/04/18 16:20	1.0	
015	155_015	IB	CALIB			06/04/18 16:48	1.0	
016	155_016	ICAL	MO_50			06/04/18 17:17	1.0	6
017	155_017	ICAL	MO_250			06/04/18 17:45	1.0	7
018	155_018	ICAL	MO_500			06/04/18 18:14	1.0	8
019	155_019	ICAL	MO_1000			06/04/18 18:43	1.0	9
020	155_020	ICAL	MO_2500			06/04/18 19:11	1.0	10
021	155_021	ICAL	MO_5000			06/04/18 19:39	1.0	10
022	155_022	IB	CALIB			06/04/18 20:08	1.0	
023	155_023	CMARKER	C8-C40			06/04/18 20:36	1.0	3
024	155_024	IB	CALIB			06/04/18 21:04	1.0	

CB1 06/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228235022

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/12/18 05:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	163_001	IB					06/12/18 05:02	1.0	
002	163_002	X	CMARKER				06/12/18 05:30	1.0	1
003	163_003	CCV	DSL_500				06/12/18 05:59	1.0	2
004	163_004	CCV	MO_500				06/12/18 06:27	1.0	3
005	163_005	CCV	BUNK_500				06/12/18 06:56	1.0	4
006	163_006	BLANK	QC935403		Water	260379	06/12/18 10:41	1.0	
007	163_007	BS	QC935404		Water	260379	06/12/18 11:09	1.0	
008	163_008	BSD	QC935405		Water	260379	06/12/18 11:38	1.0	
009	163_009	SAMPLE	300507-001		Water	260379	06/12/18 12:06	1.0	
010	163_010	SAMPLE	300379-022		Water	260379	06/12/18 12:34	1.0	
011	163_011	SAMPLE	300519-003		Water	260379	06/12/18 13:03	1.0	
012	163_012	CCV	DSL_1000				06/12/18 13:33	1.0	5
013	163_013	CCV	MO_500				06/12/18 14:02	1.0	3
014	163_014	CCV	BUNK_500				06/12/18 14:30	1.0	4
015	163_015	X	CMARKER				06/12/18 15:01	1.0	1
016	163_016	BLANK	QC935201	S	Soil	260328	06/12/18 15:30	1.0	
017	163_017	BS	QC935202	S	Soil	260328	06/12/18 15:58	1.0	
018	163_018	XBSD	QC935203	S	Soil	260328	06/12/18 16:27	1.0	
019	163_019	SAMPLE	300523-001	S	Soil	260328	06/12/18 16:56	1.0	
020	163_020	SAMPLE	300523-002	S	Soil	260328	06/12/18 17:24	1.0	
021	163_021	SAMPLE	300523-003	S	Soil	260328	06/12/18 17:53	1.0	
022	163_022	SAMPLE	300439-006		Soil	260411	06/12/18 18:22	3.0	
023	163_023	SAMPLE	300439-007		Soil	260411	06/12/18 18:51	2.0	
024	163_024	IB					06/12/18 19:19	1.0	
025	163_025	BLANK	QC935537	S	Soil	260411	06/12/18 19:48	1.0	
026	163_026	LCS	QC935538	S	Soil	260411	06/12/18 20:16	1.0	
027	163_027	BSD	QC935203	S	Soil	260328	06/12/18 20:44	1.0	
028	163_028	SAMPLE	300455-003	S	Soil	260411	06/12/18 21:13	1.0	
029	163_029	SAMPLE	300455-006	S	Soil	260411	06/12/18 21:41	1.0	
030	163_030	SAMPLE	300455-012	S	Soil	260411	06/12/18 22:09	2.0	

CB1 06/13/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

CB1 06/13/18 : Instrument stopped due to inlet pressure failure after position 30. RR last bracket.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228236556

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/13/18 06:36
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	164_001	IB					06/13/18 06:36	1.0	
002	164_002	X	CMARKER				06/13/18 07:05	1.0	1
003	164_003	CCV	DSL_500				06/13/18 07:33	1.0	2
004	164_004	CCV	MO_500				06/13/18 08:02	1.0	3
005	164_005	CCV	BUNK_500				06/13/18 08:31	1.0	4
006	164_006	BLANK	QC935201	S	Soil	260328	06/13/18 09:05	1.0	
007	164_007	BS	QC935202	S	Soil	260328	06/13/18 09:33	1.0	
008	164_008	BSD	QC935203	S	Soil	260328	06/13/18 10:02	1.0	
009	164_009	SAMPLE	300453-013		Water	260379	06/13/18 10:51	1.0	
010	164_010	SAMPLE	300453-014		Water	260379	06/13/18 11:20	1.0	
011	164_011	SAMPLE	300453-025		Water	260379	06/13/18 11:49	1.0	
012	164_012	CCV	DSL_1000				06/13/18 12:23	1.0	5
013	164_013	CCV	MO_500				06/13/18 12:52	1.0	3
014	164_014	CCV	BUNK_500				06/13/18 13:21	1.0	4
015	164_015	X	CMARKER				06/13/18 13:50	1.0	1
016	164_016	CHECK	DCM TANK				06/13/18 14:18	1.0	
017	164_017	BLANK	QC935723		Soil	260454	06/13/18 16:37	1.0	
018	164_018	LCS	QC935724		Soil	260454	06/13/18 17:06	1.0	
019	164_019	MSS	300412-007		Soil	260454	06/13/18 17:35	1.0	
020	164_020	MS	QC935725		Soil	260454	06/13/18 18:04	1.0	
021	164_021	MSD	QC935726		Soil	260454	06/13/18 18:33	1.0	
022	164_022	SAMPLE	300463-001		Soil	260454	06/13/18 19:02	1.0	
023	164_023	SAMPLE	300463-002		Soil	260454	06/13/18 19:32	1.0	
024	164_024	IB					06/13/18 20:01	1.0	
025	164_025	SAMPLE	300412-005		Soil	260454	06/13/18 20:29	1.0	
026	164_026	SAMPLE	300412-006		Soil	260454	06/13/18 20:58	1.0	
027	164_027	SAMPLE	300412-008		Soil	260454	06/13/18 21:27	1.0	
028	164_028	SAMPLE	300412-009		Soil	260454	06/13/18 21:56	1.0	
029	164_029	SAMPLE	300559-003		Soil	260454	06/13/18 22:24	1.0	
030	164_030	IB					06/13/18 22:53	1.0	
031	164_031	CCV	DSL_500				06/13/18 23:22	1.0	2
032	164_032	CCV	MO_500				06/13/18 23:51	1.0	3
033	164_033	X	CMARKER				06/14/18 00:20	1.0	1
034	164_034	BLANK	QC935723	S	Soil	260454	06/14/18 00:48	1.0	
035	164_035	LCS	QC935724	S	Soil	260454	06/14/18 01:17	1.0	
036	164_036	SAMPLE	300497-013	S	Soil	260454	06/14/18 01:46	1.0	
037	164_037	SAMPLE	300497-005	S	Soil	260454	06/14/18 02:14	1.0	
038	164_038	SAMPLE	300497-008	S	Soil	260454	06/14/18 02:43	1.0	
039	164_039	SAMPLE	300497-012	S	Soil	260454	06/14/18 03:12	1.0	
040	164_040	SAMPLE	300497-018	S	Soil	260454	06/14/18 03:40	1.0	
041	164_041	IB					06/14/18 04:09	1.0	
042	164_042	SAMPLE	300491-005	S	Soil	260454	06/14/18 04:38	1.0	
043	164_043	SAMPLE	300497-027	S	Soil	260454	06/14/18 05:06	1.0	
044	164_044	SAMPLE	300497-030	S	Soil	260454	06/14/18 05:35	1.0	
045	164_045	SAMPLE	300497-019	S	Soil	260454	06/14/18 06:04	1.0	
046	164_046	SAMPLE	300497-023	S	Soil	260454	06/14/18 06:33	1.0	
047	164_047	IB					06/14/18 07:02	1.0	
048	164_048	CCV	DSL_1000				06/14/18 07:31	1.0	5
049	164_049	CCV	MO_500				06/14/18 08:00	1.0	3
050	164_050	X	CMARKER				06/14/18 08:29	1.0	1
051	164_051	BLANK	QC935864		Soil	260485	06/14/18 09:31	1.0	
052	164_052	BS	QC935865		Soil	260485	06/14/18 09:59	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228236556

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/13/18 06:36
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	164_053	BSD	QC935866		Soil	260485	06/14/18 10:28	1.0	
054	164_054	SAMPLE	300629-005		Soil	260485	06/14/18 10:56	1.0	
055	164_055	IB					06/14/18 11:24	1.0	
056	164_056	CCV	DSL_250				06/14/18 11:52	1.0	6
057	164_057	CCV	MO_500				06/14/18 12:21	1.0	3
058	164_058	X	CMARKER				06/14/18 12:49	1.0	1
059	164_059	BLANK	QC935864	S	Soil	260485	06/14/18 15:23	1.0	
060	164_060	BS	QC935865	S	Soil	260485	06/14/18 15:51	1.0	
061	164_061	BSD	QC935866	S	Soil	260485	06/14/18 16:19	1.0	
062	164_062	SAMPLE	300542-005	S	Soil	260485	06/14/18 16:48	1.0	
063	164_063	SAMPLE	300542-010	S	Soil	260485	06/14/18 17:16	1.0	
064	164_064	SAMPLE	300542-015	S	Soil	260485	06/14/18 17:45	2.0	
065	164_065	SAMPLE	300542-018	S	Soil	260485	06/14/18 18:13	1.0	
066	164_066	IB					06/14/18 18:41	1.0	
067	164_067	CCV	DSL_500				06/14/18 19:10	1.0	2
068	164_068	CCV	MO_500				06/14/18 19:38	1.0	3
069	164_069	X	CMARKER				06/14/18 20:07	1.0	1
070	164_070	CHECK	TANK				06/14/18 20:35	1.0	

CB1 06/14/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 58.

WA1 06/14/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 59 through 69.

CB1 06/15/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 70 through 70.

SAMPLE PREPARATION SUMMARY

Batch # : 260379
 Started By : ALE
 Method : 3520C
 Spike #1 ID : S36867

Prep Date : 11-JUN-2018 13:57
 SOP Version : TEH_3520_rv16
 Spike #2 ID : S36488

Analysis : TEH
 Finished By : JCT
 Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300379-022		Water	500	2.5	1	0.005	7	.5				TEHM	
300394-025		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	muddy
300444-001		Water	510	2.5	1	0.004902	7	.5				TEH	
300451-001		Water	500	2.5	1	0.005	7	.5				TEH	
300451-002		Water	500	2.5	1	0.005	7	.5				TEH	
300451-003		Water	510	2.5	1	0.004902	7	.5				TEH	
300451-004		Water	500	2.5	1	0.005	6	.5				TEH	
300453-013		Water	500	2.5	1	0.005	7	.5				TEHM	See comment 1 below
300453-014		Water	500	2.5	1	0.005	7	.5				TEHM	See comment 1 below
300453-025		Water	500	2.5	1	0.005	8	.5				TEHM	See comment 2 below
300471-001		Water	1000	5	1	0.005	9	1				TEHM	
300478-002		Water	510	2.5	1	0.004902	7	.5				TEH	See comment 2 below
300507-001		Water	1000	5	1	0.005	7	1				TEHM	
300519-003		Water	225	1	1	0.004444	7	.25				TEHM	
300540-001		Water	1020	5	1	0.004902	13	1				TEH	See comment 2 below
300560-001		Water	500	2.5	1	0.005	7	.5				TEH	See comment 2 below
300598-001		Water	520	2.5	1	0.004808	7	.5				TEH	See comment 3 below
QC935403	BLANK	Water	1000	5	1	0.005		1			3630C	TEH	
QC935404	BS	Water	1000	5	1	0.005		1	1		3630C	TEH	
QC935405	BSD	Water	1000	5	1	0.005		1	1		3630C	TEH	

Comment 1: Prepped 12-JUN-2018 12:32; A/O AS1, sediment layer
 Comment 2: Prepped 12-JUN-2018 12:32; A/O AS1
 Comment 3: Prepped 12-JUN-2018 17:27; A/O AS1

CB1 06/12/18 : Matrix spikes were not performed for this analysis in batch 260379 due to insufficient sample amount.

WA1 06/12/18 : Please review NSG QCs for rush 300507 and 300519. SG QCs are still running.

EAH 06/12/18 : Re viewed for 300507 and 300519.

CB1 06/13/18 : Batch paperwork is done and all QC are run, please fully review.

Analyst: CB1 Date: 06/13/18 Reviewer: EAH Date: 06/13/18

TEH (8015) Water Prep Log

version 201801

Enthlapy Analytical LLC - Berkeley

LIMS Batch No: 260379
 LIMS Analysis: TEH/M
 Date Extracted: 6/11/18

Extraction Method:
 EPA 3520c cont. L/L

Page 13 BK 4262
 Cleanup Method (if needed):
 EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
300379-022	D	<input checked="" type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____		*
300394-025	G	<input checked="" type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	X	muddy
300444-001	H	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> S10	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____		
300451-001	G	<input checked="" type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____		
	2	F	<input checked="" type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	
	3	G	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> S10	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	
	4	F	<input checked="" type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 6	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	
300471-001	E	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> 9	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		
300507-001	F	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		
300519-003	K	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 925	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 1.0		225ml ◇
MB QC 935403	N/A	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0	X	
BS	4	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0	X	
BSD	S	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0	X	
300453-013	E	<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____		A/O ASI 6/12/18 12:52
	14	D	<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	Sediment layer
	25	D	<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> 8	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____	± ASI 6/12/18
300478-002	H	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> S10	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5		AR6 6/13/18
300540-001	H	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1070	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> 13	<input checked="" type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5		
300560-001	K	<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/> _____		
		<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input type="checkbox"/> _____		
		<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input type="checkbox"/> _____		
		<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input type="checkbox"/> _____		AR6 6/13/18
		<input type="checkbox"/> 500 <input type="checkbox"/> _____	<input type="checkbox"/> 7 <input type="checkbox"/> _____	<input type="checkbox"/> 2.5 <input type="checkbox"/> _____		CS/6/13/18 RUSHES

BS/BSD-only (MS/MSD not included) due to: insufficient volume, or other (reason)

surrogate volume adjusted proportionally to sample volume

Checked pH with pH strips - lot #
 0.25/0.5/1.0 mL of TEH_SURR was added to all samples
 * 1.0 mL of TEH_SP was added to all spikes
 3520c: Samples were continually extracted about 450 mL of CH₂Cl₂
 Extraction Start Time: _____
 Extraction End Time: _____
 3510c: Samples were extracted 3 times with 60 mL of CH₂Cl₂
 Extracts filtered through baked, CH₂Cl₂-rinsed granular Na₂SO₄
 Concentrated to final volume in boiling water bath
 Relinquished to TEH Department

Mfg & Lot# / LIMS # / Tin	Date / Initials
0BDHS261	ALE 6/11/18
S36867C	
S36488E	
EMS8068	
13:57/12:37/1027	
8:00/67:59/1130	CRE 6/12/18
EMS8068	JCT 6/12/18
EM16T285202	
-	
-	

AR 6/11/18
 Extraction Chemist Date

Continued from Page _____
 Continued on Page 15

AR6 6/13/18
 CS/6/13/18
 CS/6/13/18 RUSHES
 Reviewed by Date

Laboratory Job Number 300453

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Soil

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID: BR11-1SB015[10] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300453-004 Analyzed: 06/15/18
 Moisture: 16%

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.2	0.36
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	97	59-130

Field ID: BR11-1SB015[15] Batch#: 260530
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300453-005 Analyzed: 06/15/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	0.49 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	104	59-130

Field ID: BR11-1SB015[20] Batch#: 260555
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300453-006 Analyzed: 06/15/18
 Moisture: 13%

Analyte	Result	RL	MDL
Diesel C10-C24	1.9 Y Z	1.1	0.35
Motor Oil C24-C36	8.5	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	90	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID: BR11-1SB015[25] Batch#: 260555
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300453-007 Analyzed: 06/15/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	2.5 Y Z	1.2	0.35
Motor Oil C24-C36	12	5.8	1.7

Surrogate	%REC	Limits
o-Terphenyl	91	59-130

Field ID: BR11-1SB015[30] Batch#: 260555
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300453-008 Analyzed: 06/15/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	2.1 Y Z	1.2	0.36
Motor Oil C24-C36	8.7	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	91	59-130

Field ID: BR11-1SB015[35] Batch#: 260555
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300453-009 Analyzed: 06/15/18
 Moisture: 17%

Analyte	Result	RL	MDL
Diesel C10-C24	1.0 J Y Z	1.2	0.37
Motor Oil C24-C36	2.8 J	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	92	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID: BR11-1SB015[40] Batch#: 260555
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300453-010 Analyzed: 06/15/18
 Moisture: 17%

Analyte	Result	RL	MDL
Diesel C10-C24	0.86 J Y Z	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	88	59-130

Field ID: BR11-1SB015[45] Batch#: 260555
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300453-011 Analyzed: 06/15/18
 Moisture: 18%

Analyte	Result	RL	MDL
Diesel C10-C24	0.39 J Y	1.2	0.37
Motor Oil C24-C36	ND	6.1	1.8

Surrogate	%REC	Limits
o-Terphenyl	97	59-130

Field ID: DUP06052018-03 Batch#: 260555
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300453-012 Analyzed: 06/15/18
 Moisture: 19%

Analyte	Result	RL	MDL
Diesel C10-C24	0.42 J Y	1.2	0.38
Motor Oil C24-C36	ND	6.2	1.9

Surrogate	%REC	Limits
o-Terphenyl	91	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID: BR11-1SB016[3] Batch#: 260555
 Type: SAMPLE Prepared: 06/15/18
 Lab ID: 300453-015 Analyzed: 06/15/18
 Moisture: 16%

Analyte	Result	RL	MDL
Diesel C10-C24	0.78 J Y	1.2	0.36
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	90	59-130

Field ID: BR11-1SB016[5] Batch#: 260576
 Type: SAMPLE Prepared: 06/18/18
 Lab ID: 300453-016 Analyzed: 06/18/18
 Moisture: 17%

Analyte	Result	RL	MDL
Diesel C10-C24	1.5 Y Z	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	80	59-130

Field ID: BR11-1SB016[7] Batch#: 260576
 Type: SAMPLE Prepared: 06/18/18
 Lab ID: 300453-017 Analyzed: 06/18/18
 Moisture: 16%

Analyte	Result	RL	MDL
Diesel C10-C24	2.8 Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	92	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID: BR11-1SB016[10] Batch#: 260576
 Type: SAMPLE Prepared: 06/18/18
 Lab ID: 300453-018 Analyzed: 06/18/18
 Moisture: 16%

Analyte	Result	RL	MDL
Diesel C10-C24	23 Y	1.2	0.37
Motor Oil C24-C36	3.5 J Y	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	90	59-130

Field ID: BR11-1SB016[15] Batch#: 260576
 Type: SAMPLE Prepared: 06/18/18
 Lab ID: 300453-019 Analyzed: 06/18/18
 Moisture: 16%

Analyte	Result	RL	MDL
Diesel C10-C24	290	1.2	0.37
Motor Oil C24-C36	34	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	98	59-130

Field ID: BR11-1SB016[20] Batch#: 260576
 Type: SAMPLE Prepared: 06/18/18
 Lab ID: 300453-020 Analyzed: 06/18/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	0.82 J Y	1.2	0.36
Motor Oil C24-C36	2.5 J	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	94	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID: BR11-1SB016[25] Batch#: 260576
 Type: SAMPLE Prepared: 06/18/18
 Lab ID: 300453-021 Analyzed: 06/18/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	1.5 Y	1.2	0.36
Motor Oil C24-C36	3.3 J	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	89	59-130

Field ID: BR11-1SB016[30] Batch#: 260576
 Type: SAMPLE Prepared: 06/18/18
 Lab ID: 300453-022 Analyzed: 06/18/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	4.0 Y Z	1.2	0.36
Motor Oil C24-C36	14	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	93	59-130

Field ID: BR11-1SB016[35] Batch#: 260576
 Type: SAMPLE Prepared: 06/18/18
 Lab ID: 300453-023 Analyzed: 06/18/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	0.58 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	97	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/06/18
Basis:	dry	Received:	06/06/18

Field ID: DUP06062018-01 Batch#: 260576
 Type: SAMPLE Prepared: 06/18/18
 Lab ID: 300453-024 Analyzed: 06/18/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	120	1.2	0.36
Motor Oil C24-C36	16	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	99	59-130

Type: BLANK Prepared: 06/15/18
 Lab ID: QC936030 Analyzed: 06/15/18
 Batch#: 260530

Analyte	Result	RL	MDL
Diesel C10-C24	0.41 J	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	109	59-130

Type: BLANK Prepared: 06/15/18
 Lab ID: QC936141 Analyzed: 06/15/18
 Batch#: 260555

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	97	59-130

Type: BLANK Prepared: 06/18/18
 Lab ID: QC936222 Analyzed: 06/18/18
 Batch#: 260576

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	107	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC936031	Batch#:	260530
Matrix:	Soil	Prepared:	06/15/18
Units:	mg/Kg	Analyzed:	06/15/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	47.93	96	56-137

Surrogate	%REC	Limits
o-Terphenyl	103	59-130

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC936142	Batch#:	260555
Matrix:	Soil	Prepared:	06/15/18
Units:	mg/Kg	Analyzed:	06/15/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	43.87	88	56-137

Surrogate	%REC	Limits
o-Terphenyl	95	59-130

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC936223	Batch#:	260576
Matrix:	Soil	Prepared:	06/18/18
Units:	mg/Kg	Analyzed:	06/18/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	46.24	92	56-137

Surrogate	%REC	Limits
o-Terphenyl	99	59-130

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	260576
MSS Lab ID:	300712-001	Sampled:	06/15/18
Matrix:	Soil	Received:	06/15/18
Units:	mg/Kg	Prepared:	06/18/18
Basis:	as received	Analyzed:	06/18/18
Diln Fac:	1.000		

Type: MS Lab ID: QC936224

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	6.160	50.21	51.90	91	52-128

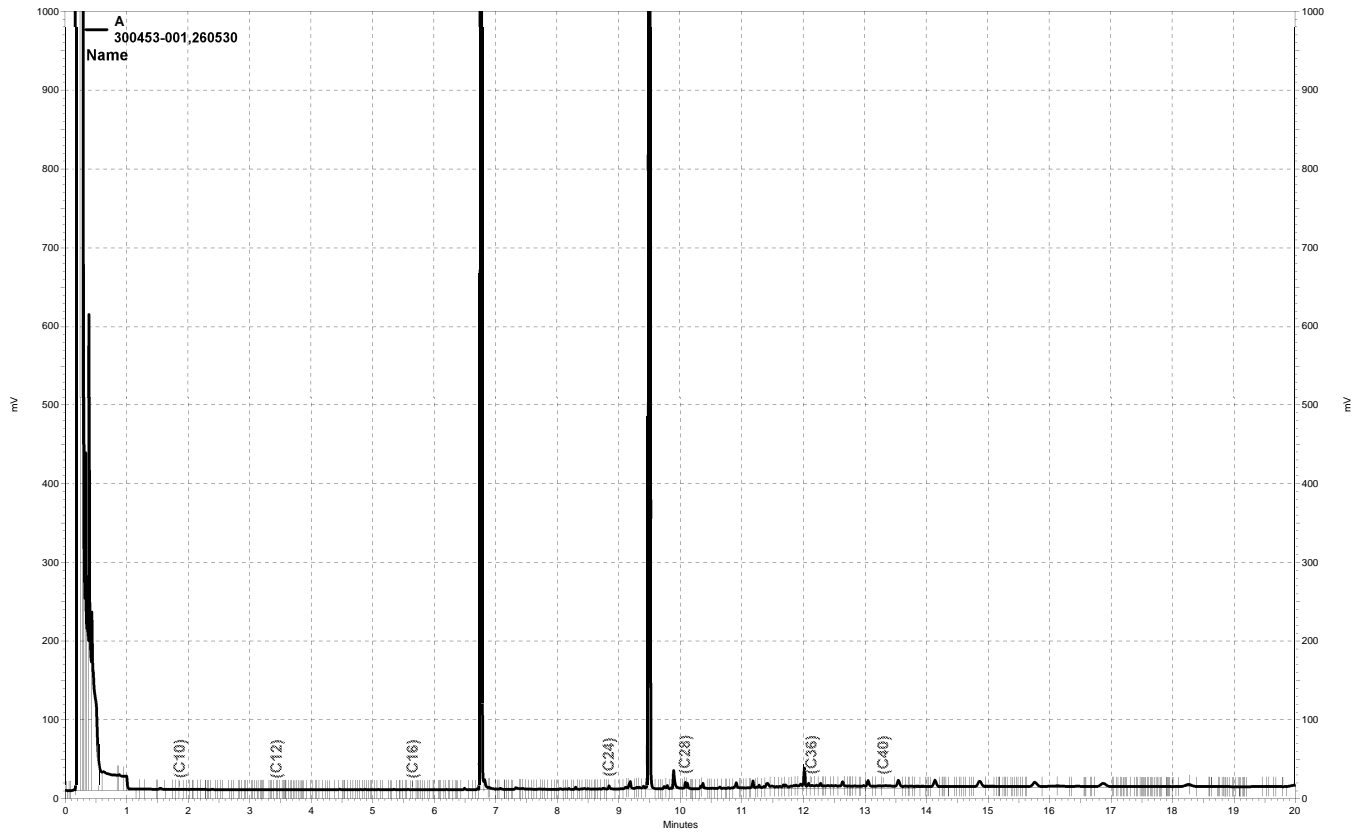
Surrogate	%REC	Limits
o-Terphenyl	98	59-130

Type: MSD Lab ID: QC936225

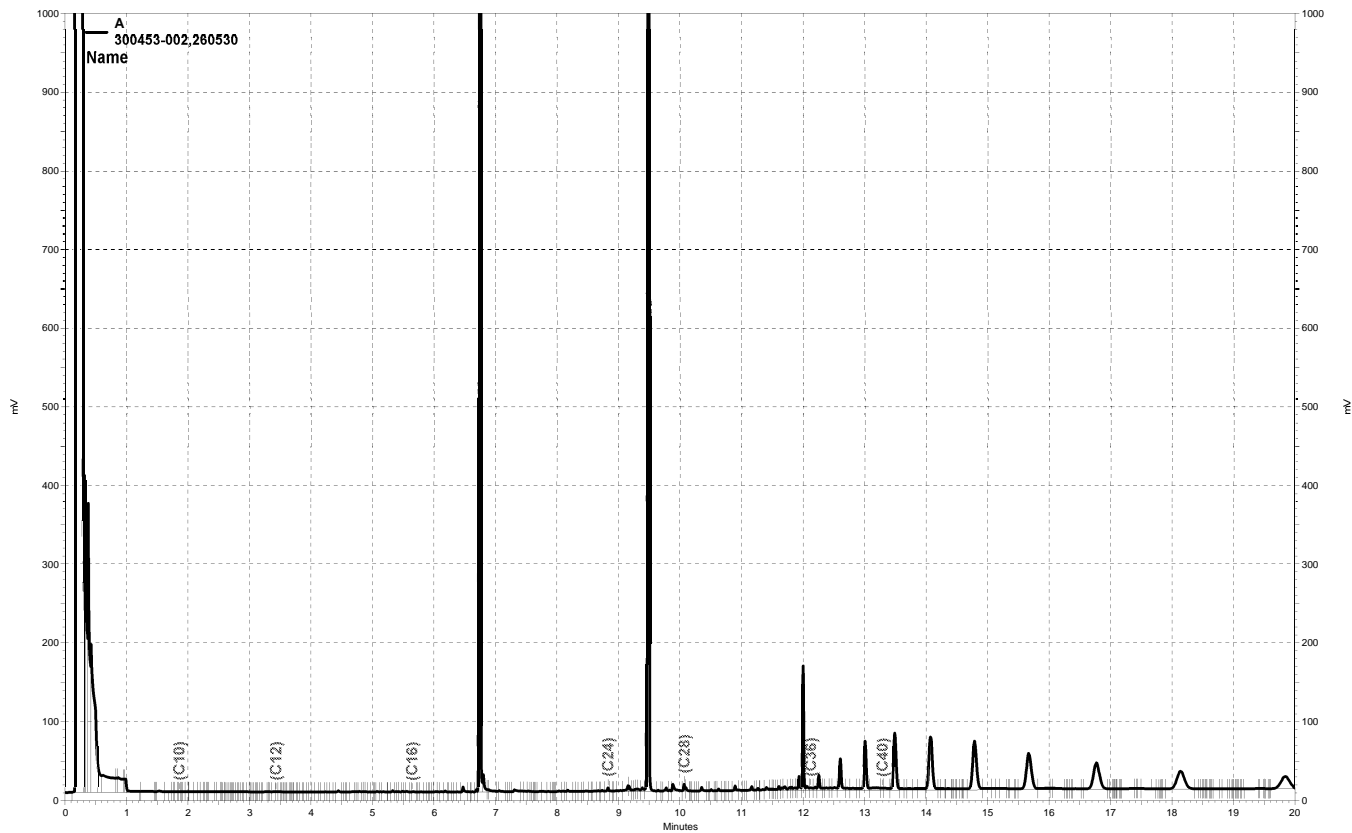
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.76	54.69	98	52-128	6	42

Surrogate	%REC	Limits
o-Terphenyl	104	59-130

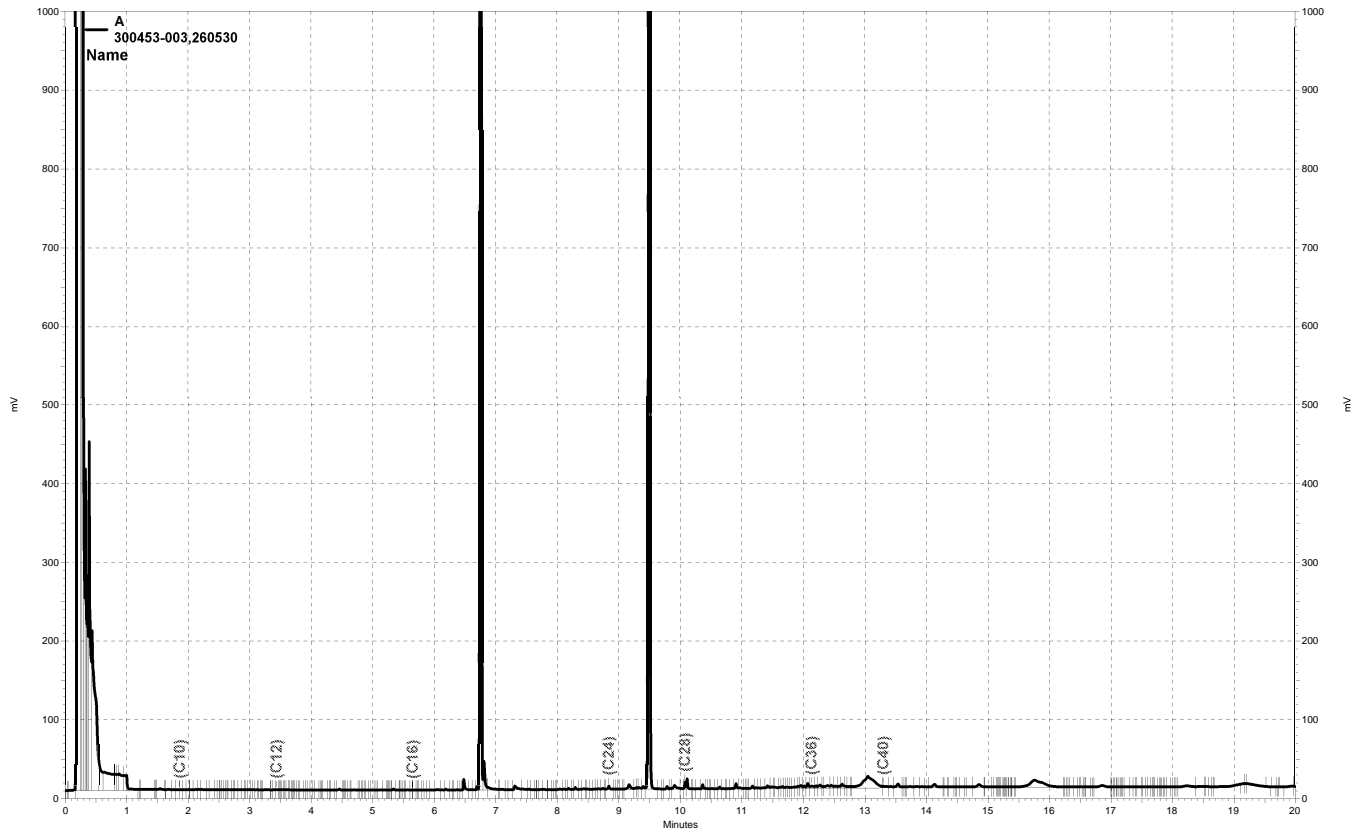
RPD= Relative Percent Difference



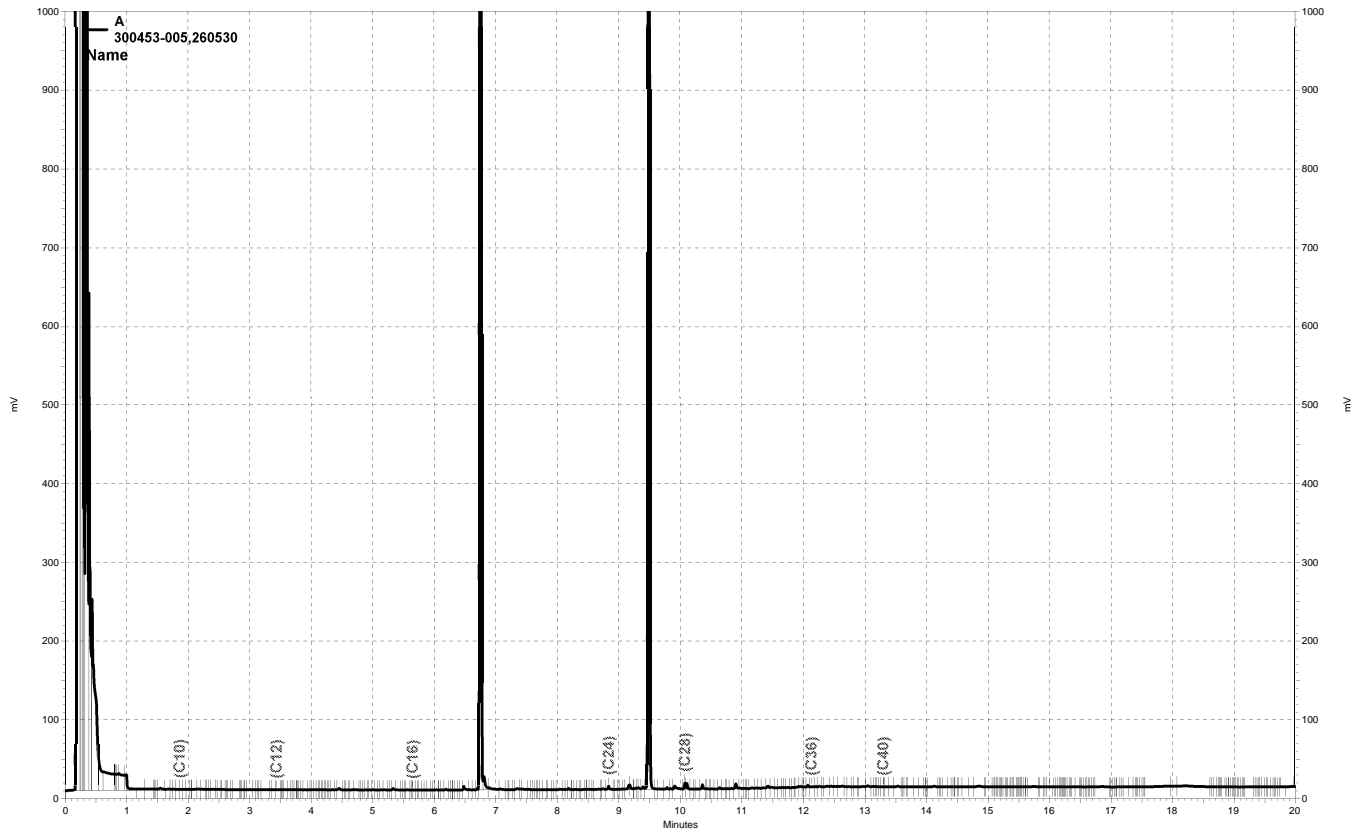
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a040, A



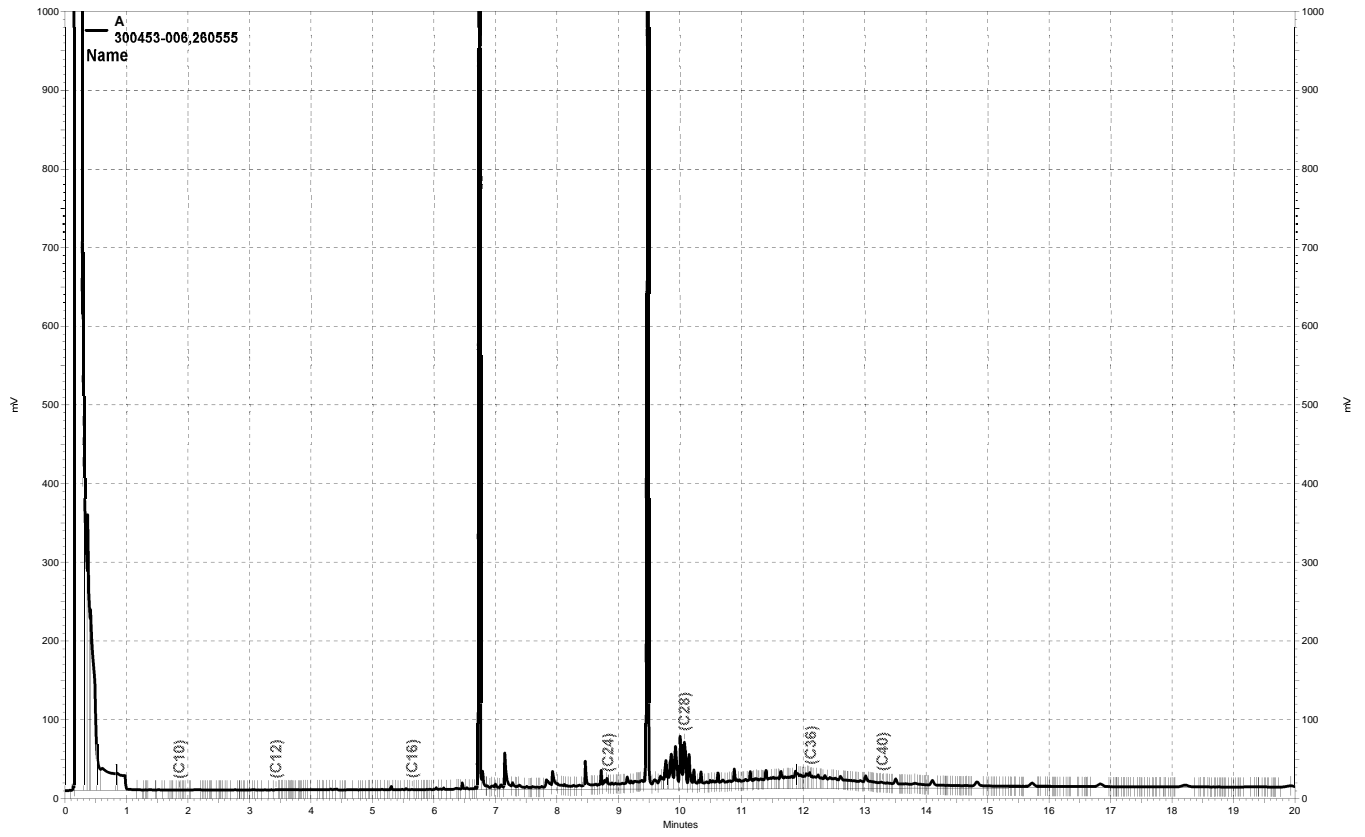
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a041, A



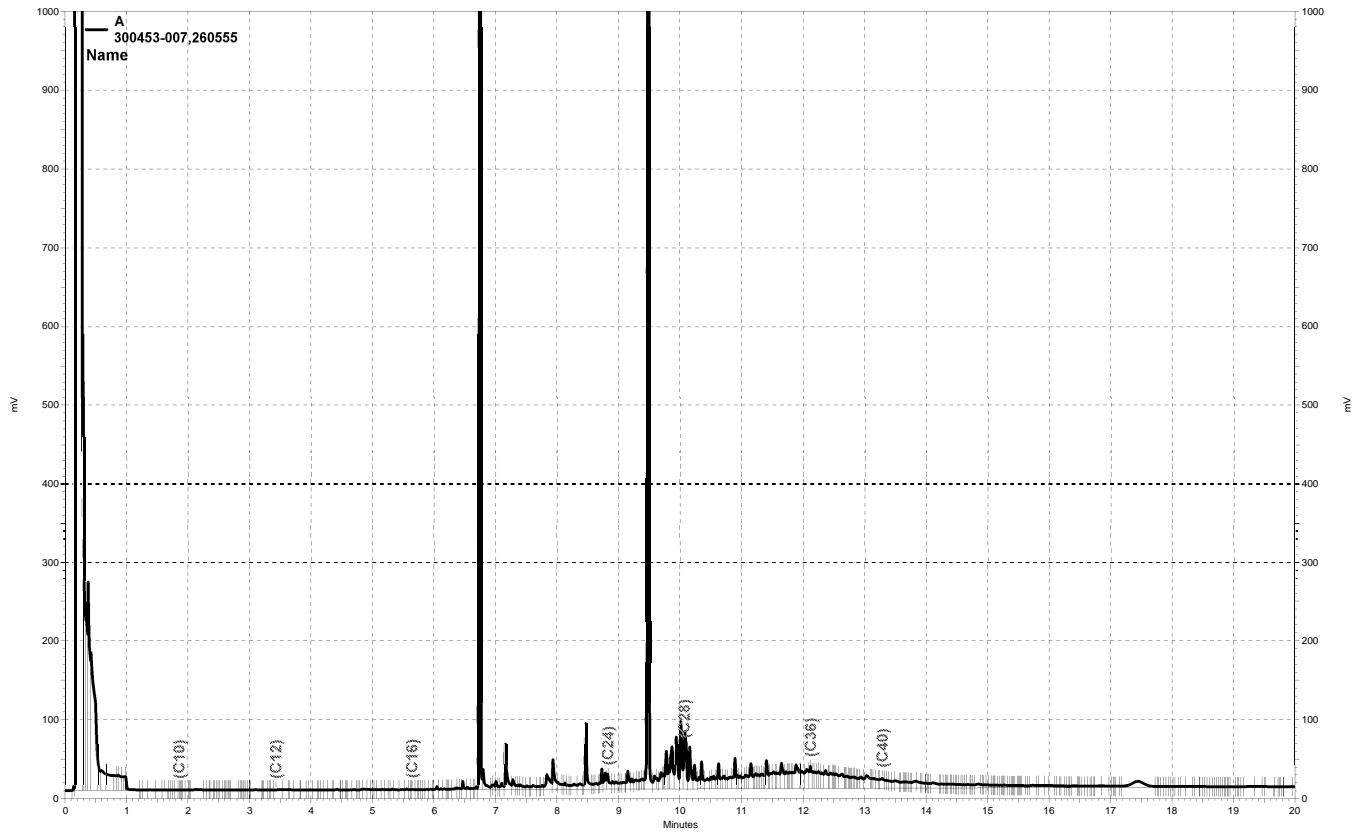
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a042, A



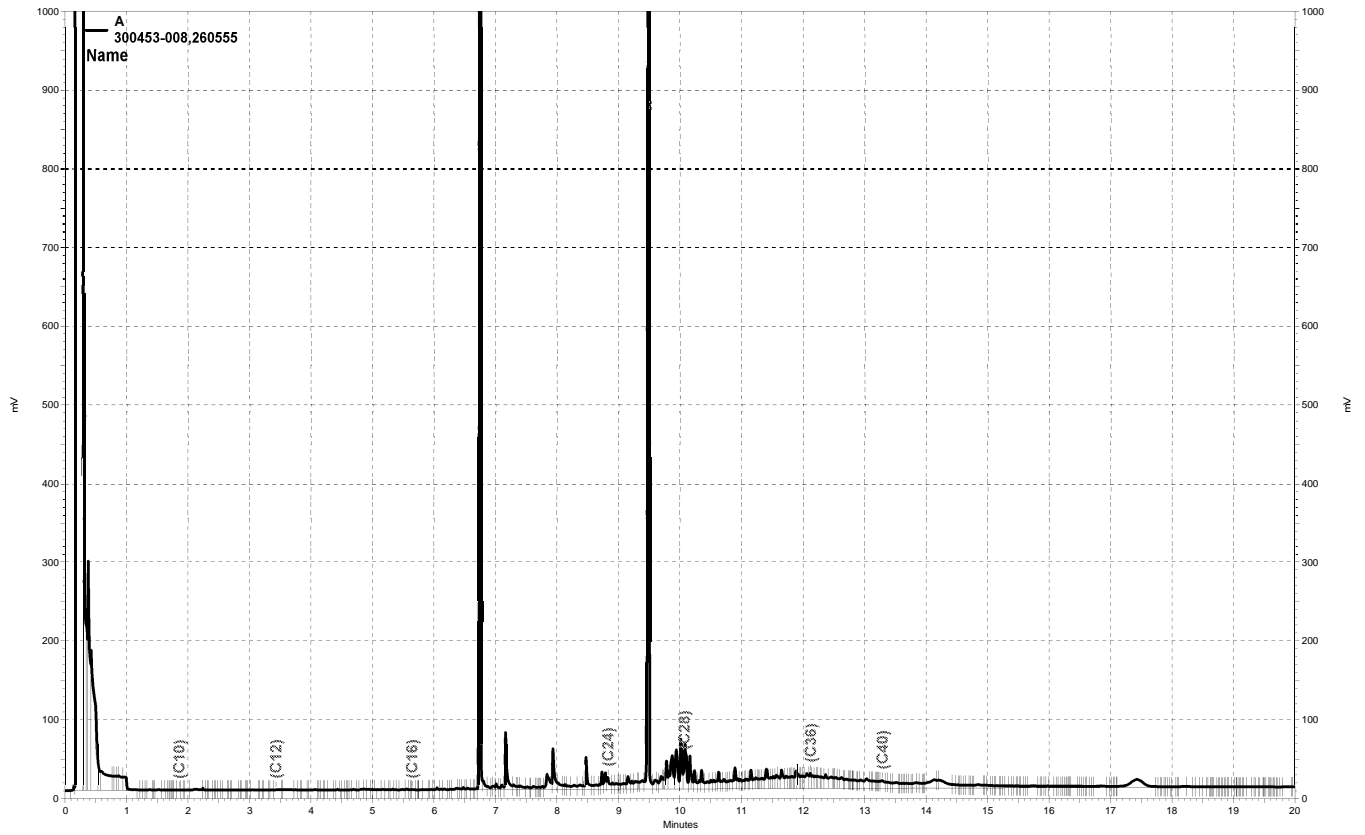
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a044, A



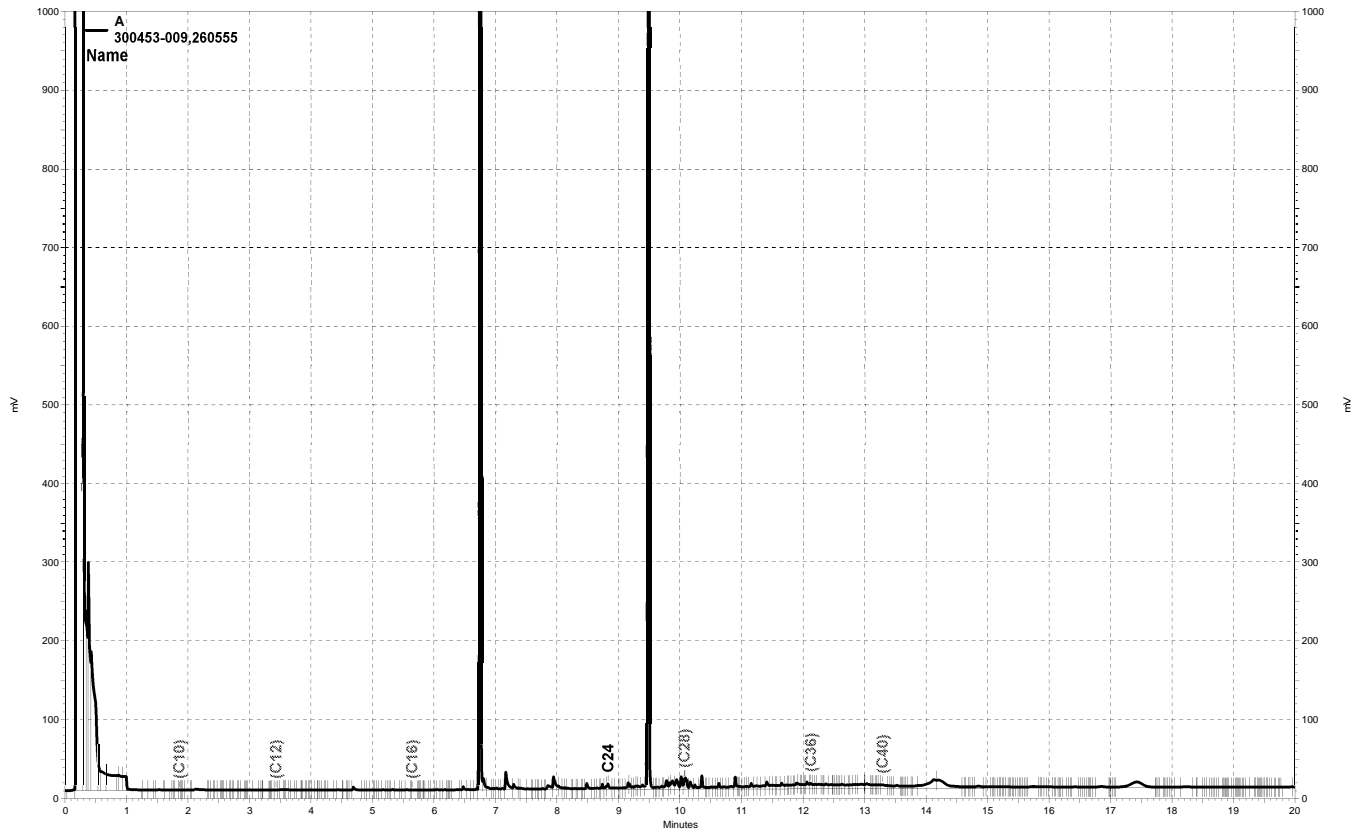
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a049, A



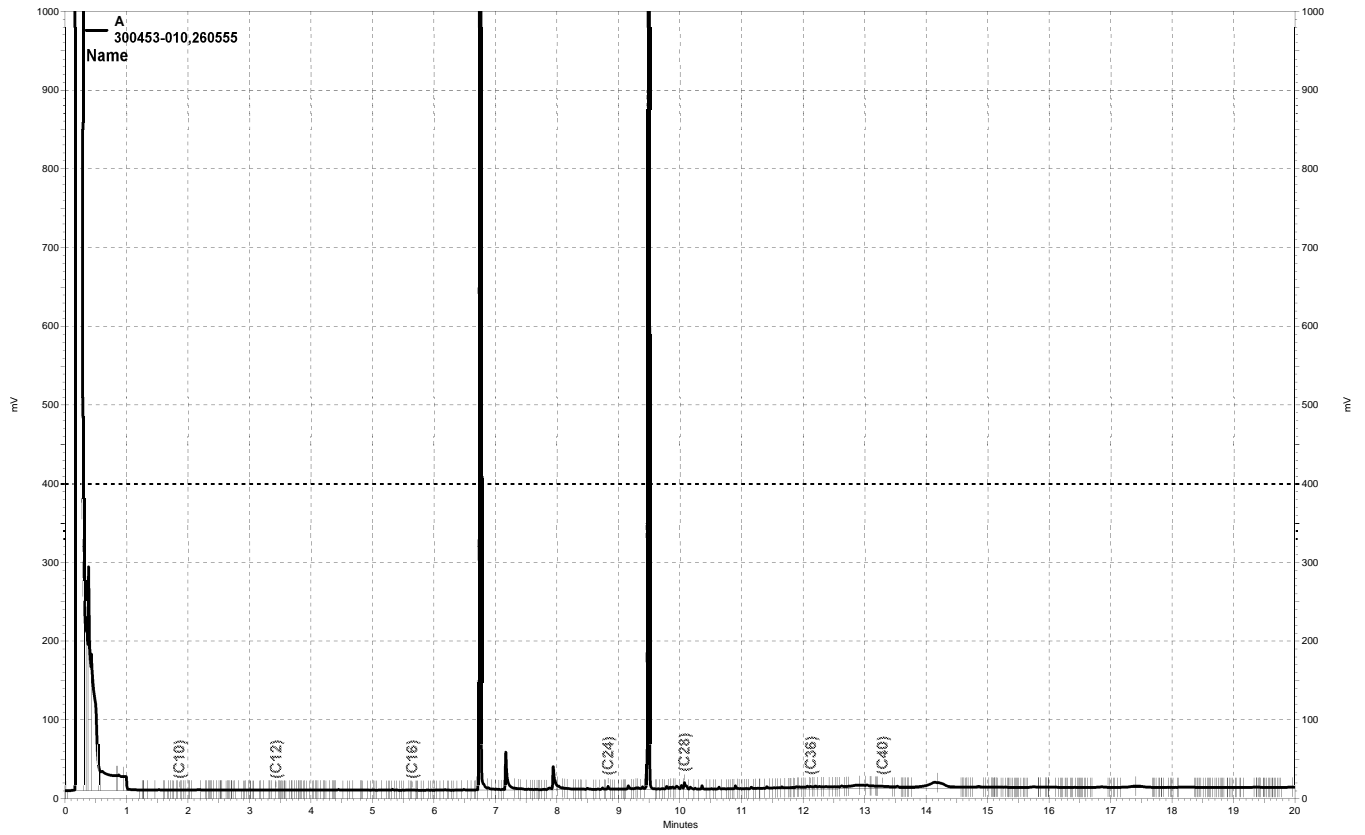
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a050, A



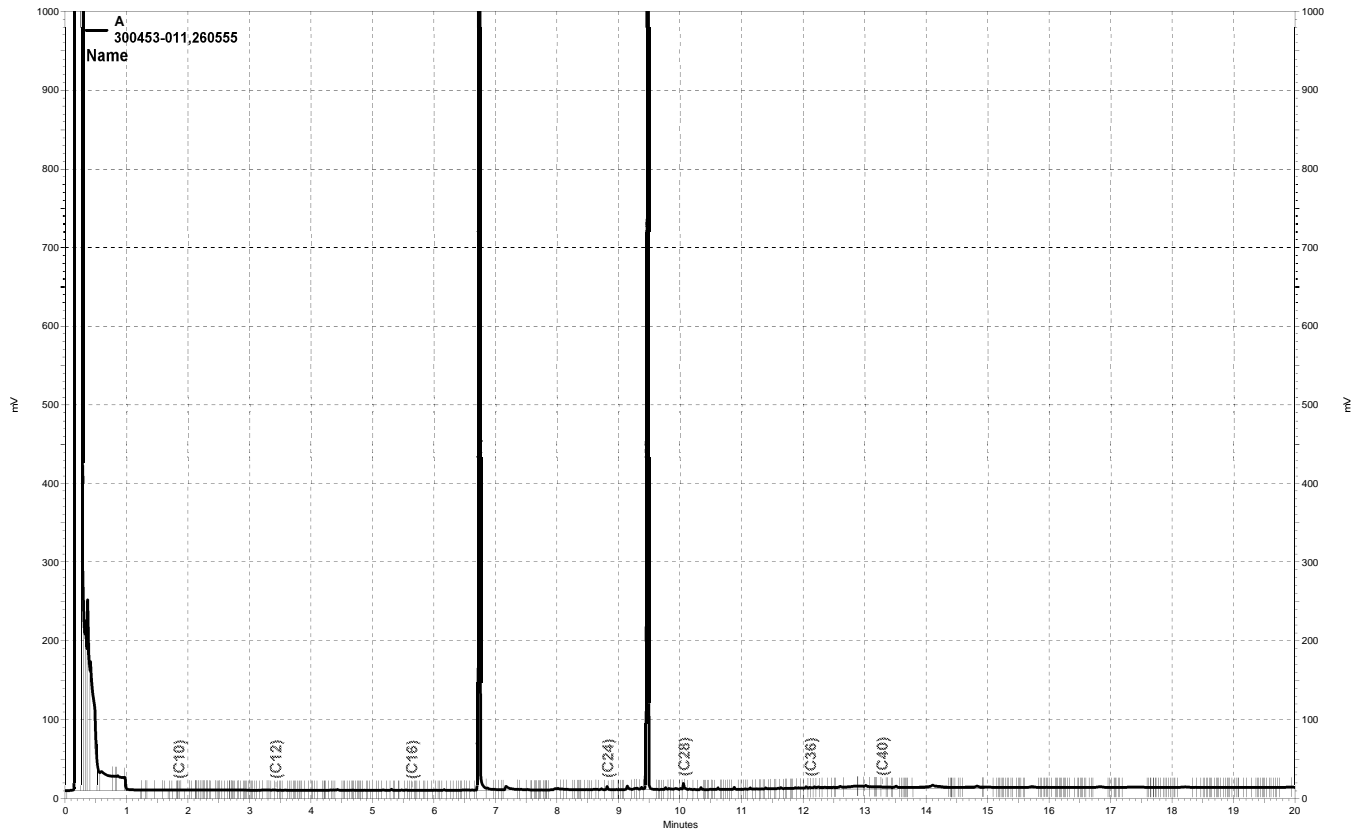
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a051, A



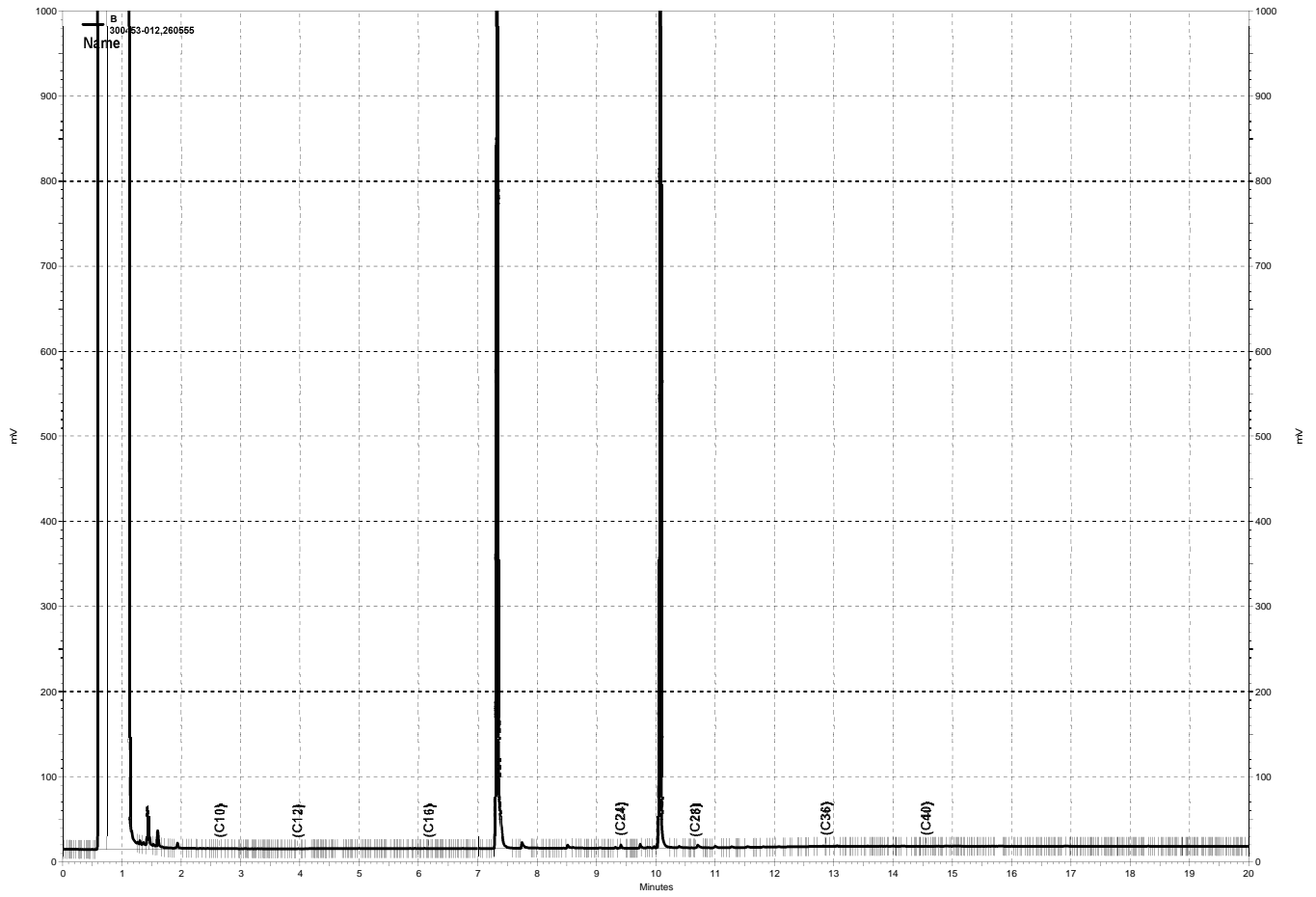
— \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a052, A



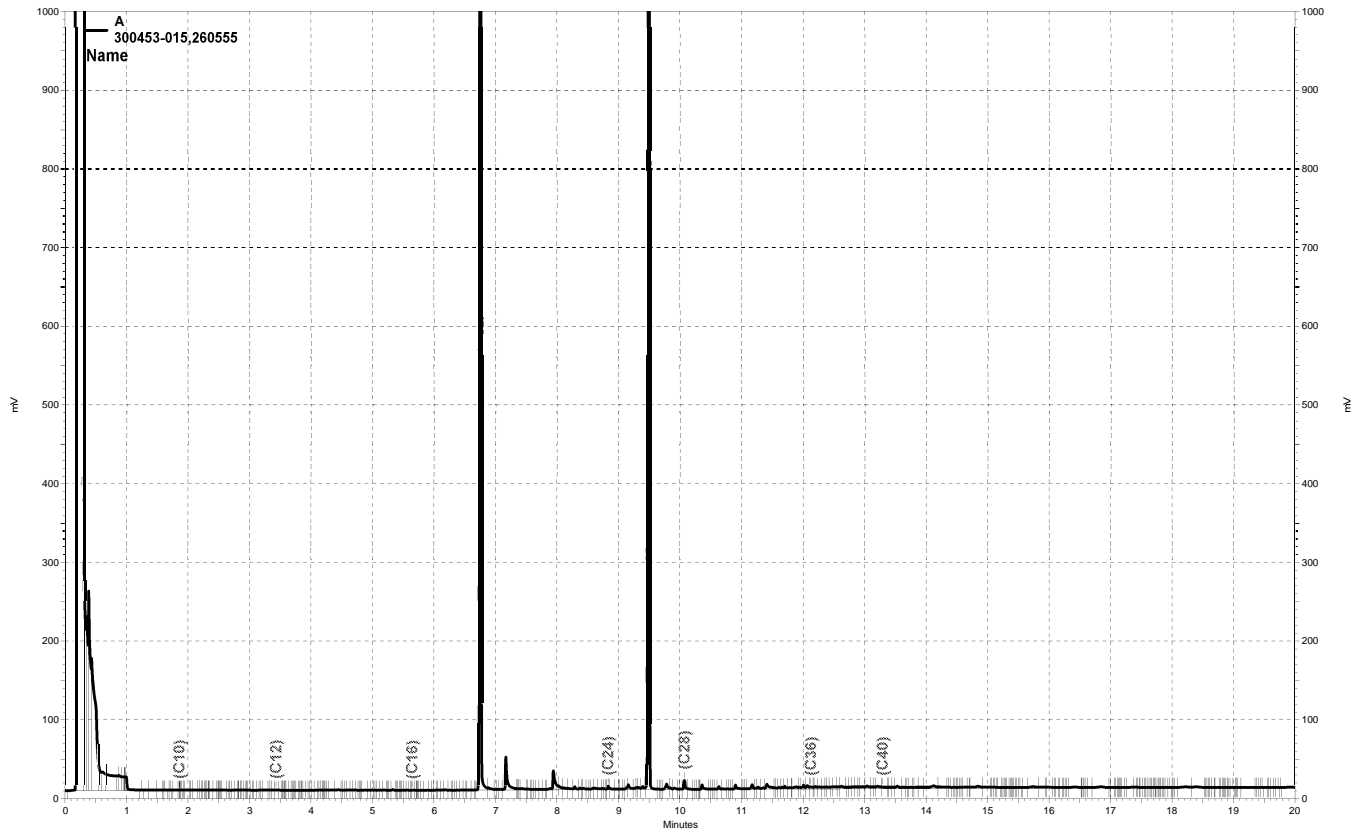
— \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a053, A



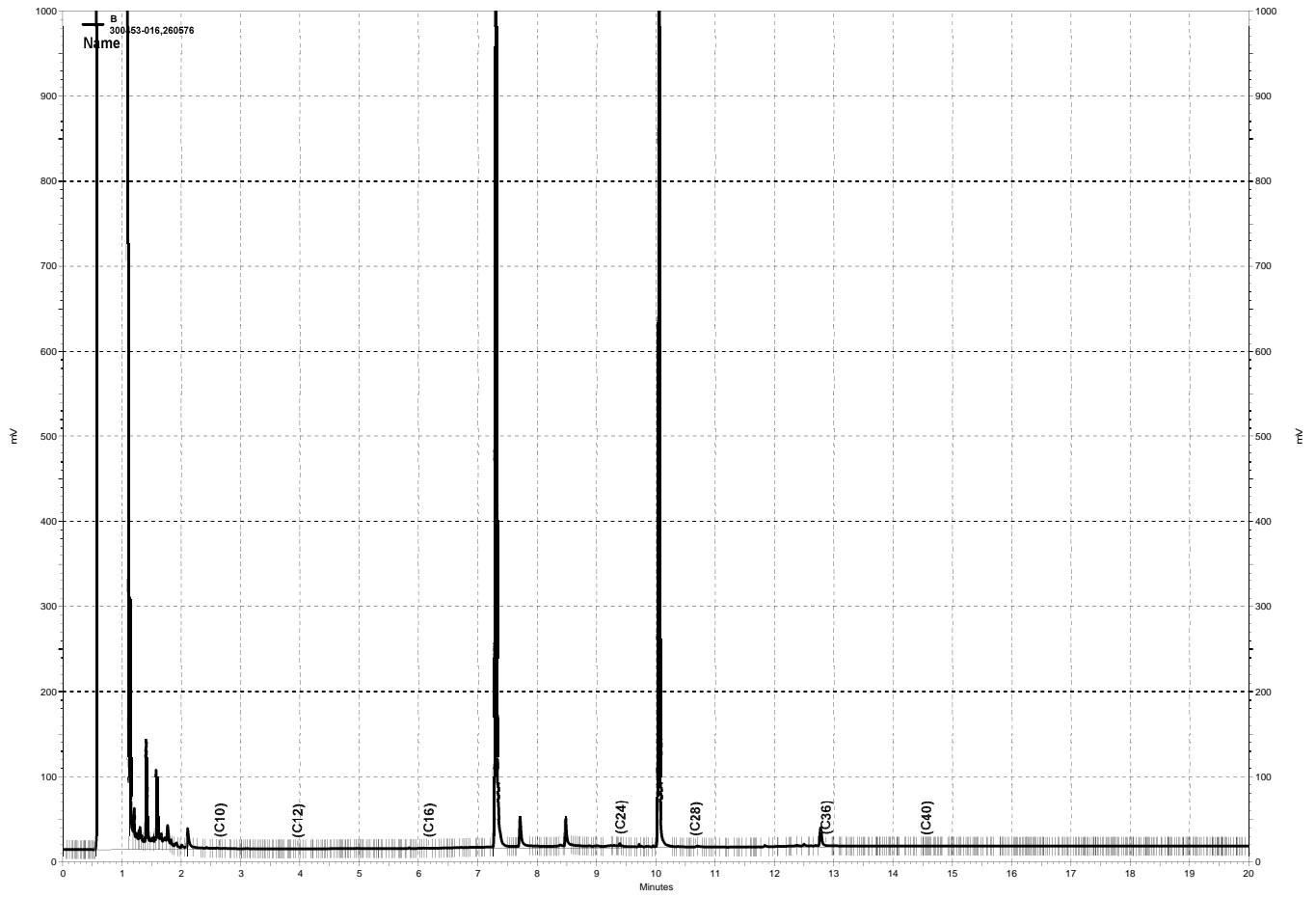
— \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a054, A



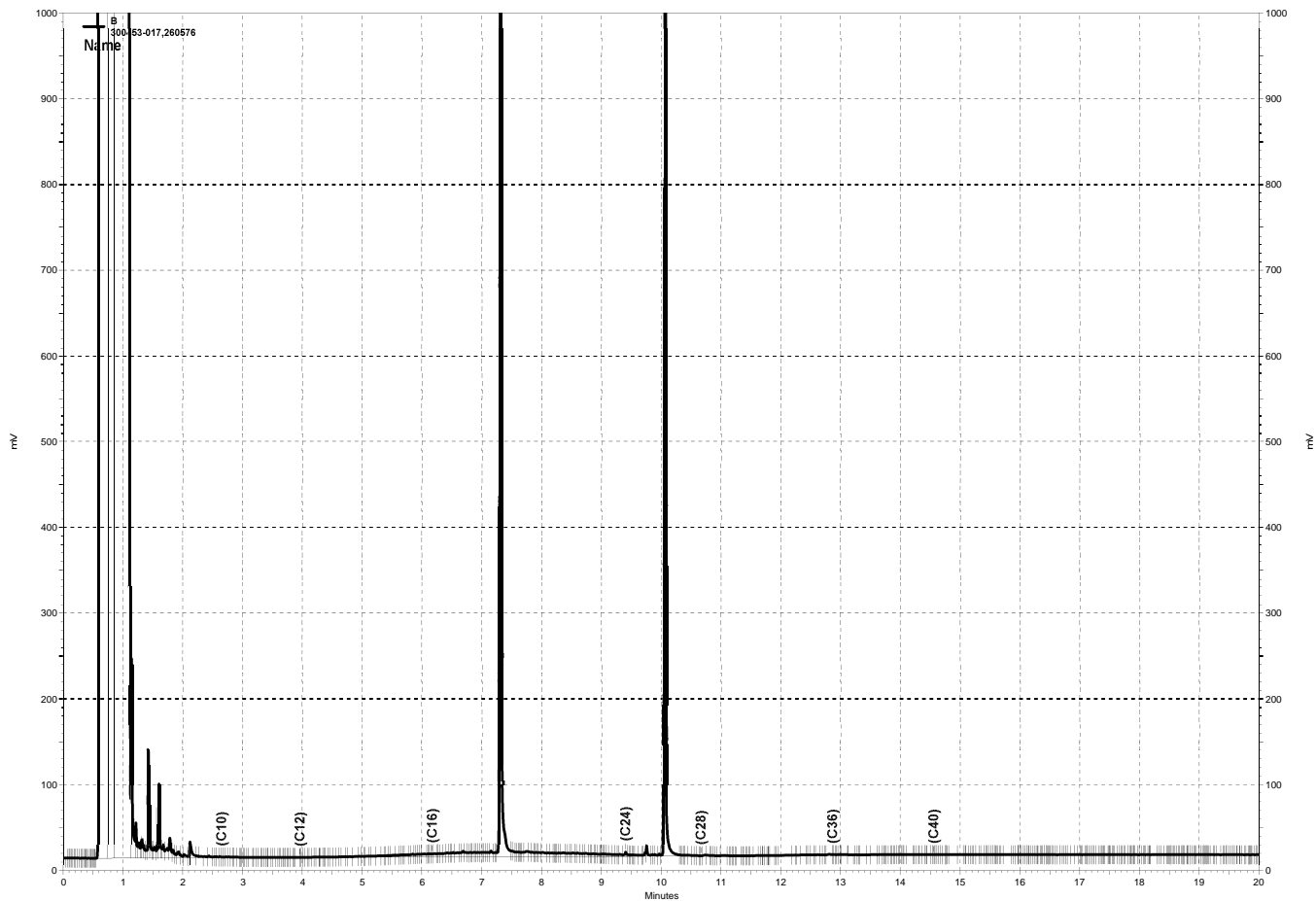
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\166b018, B



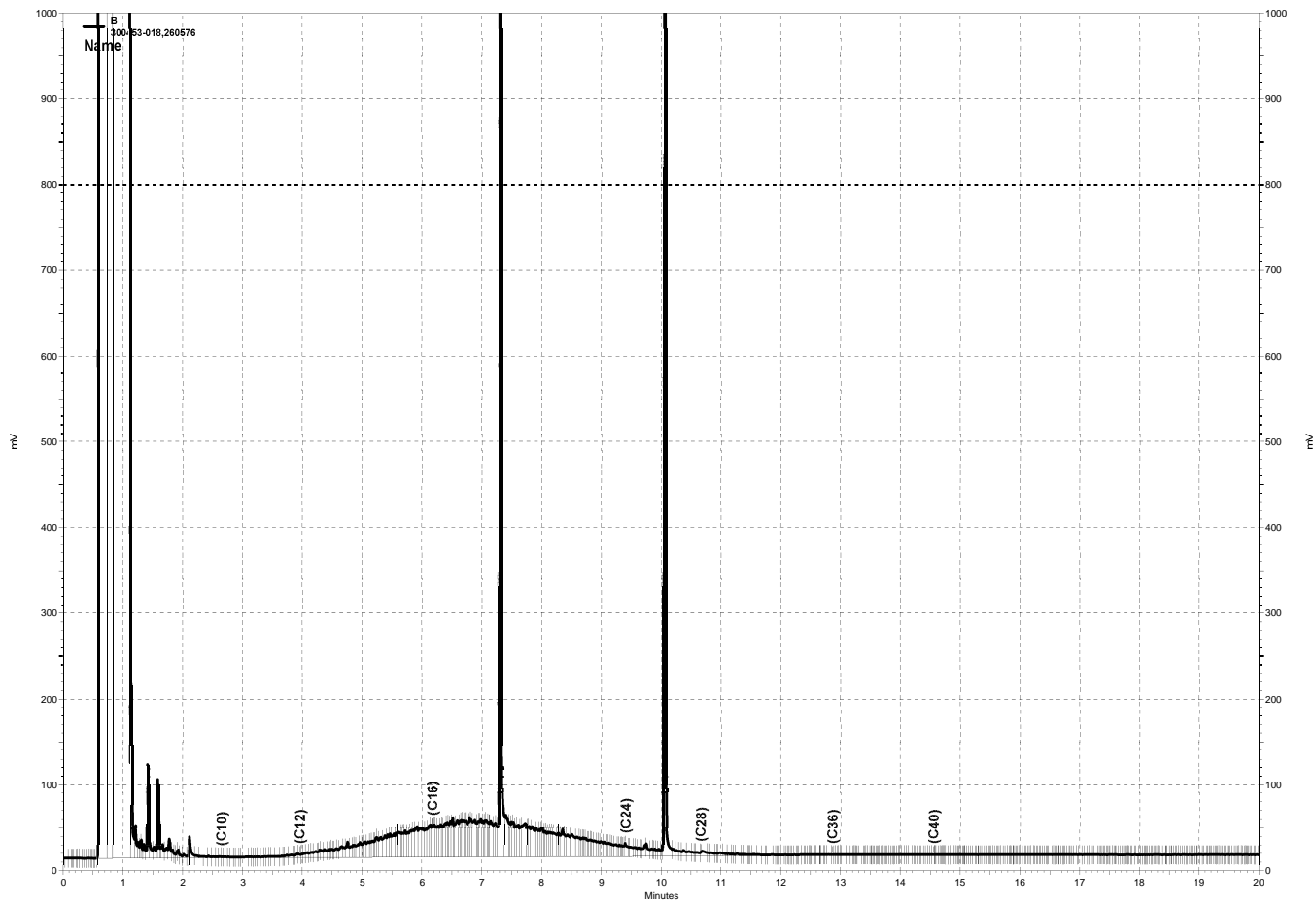
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a055, A



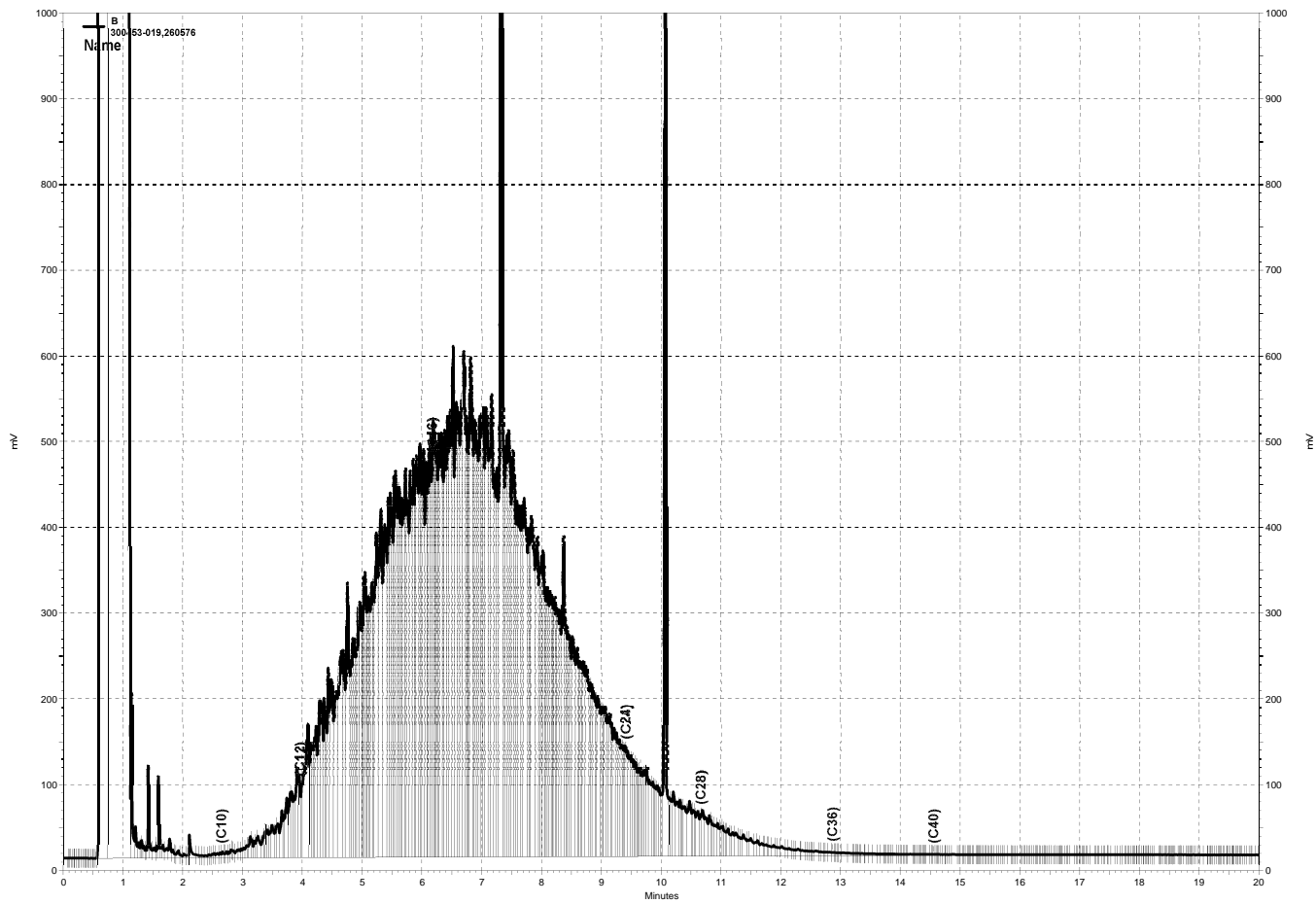
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\169b015, B



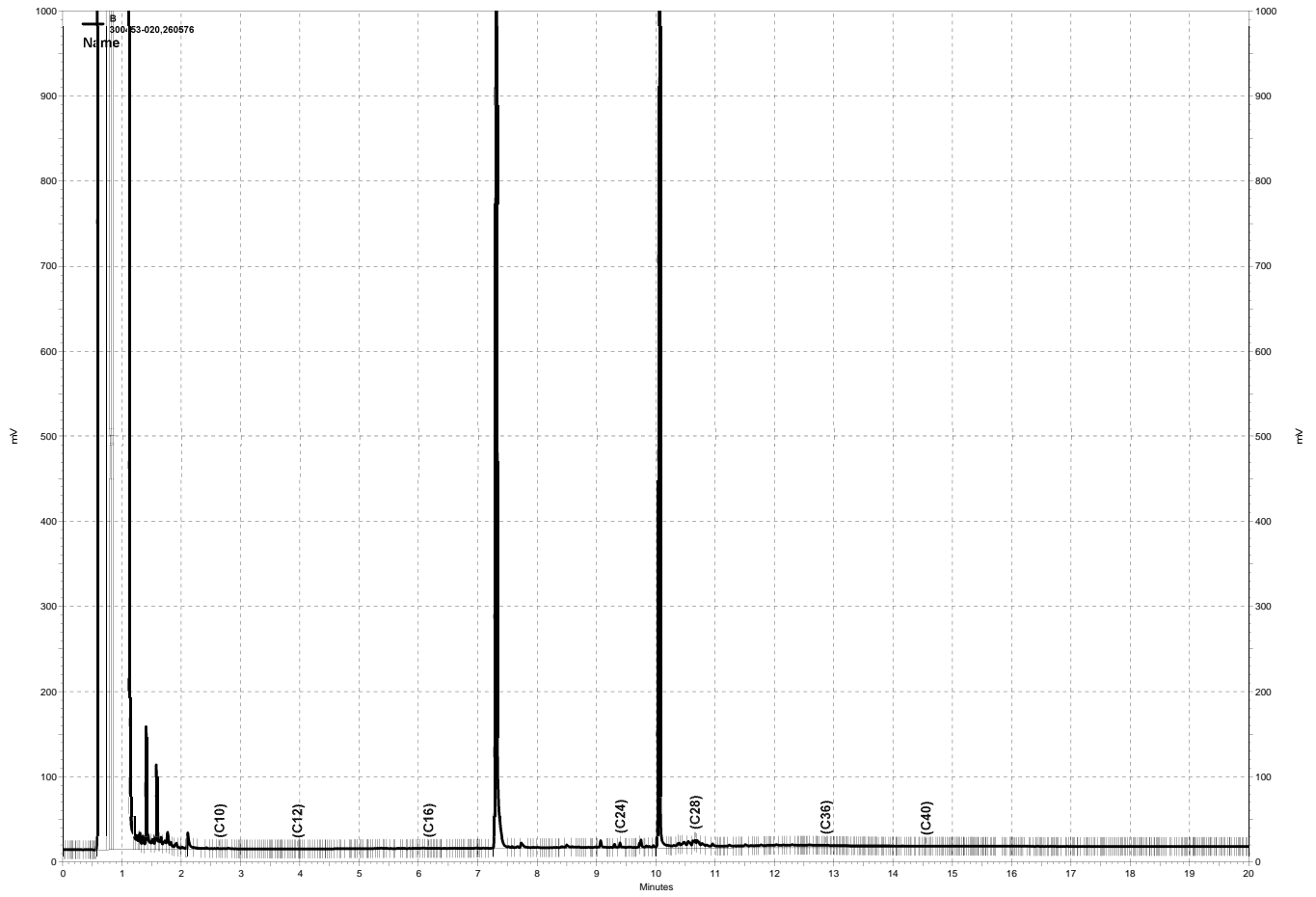
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\169b016, B



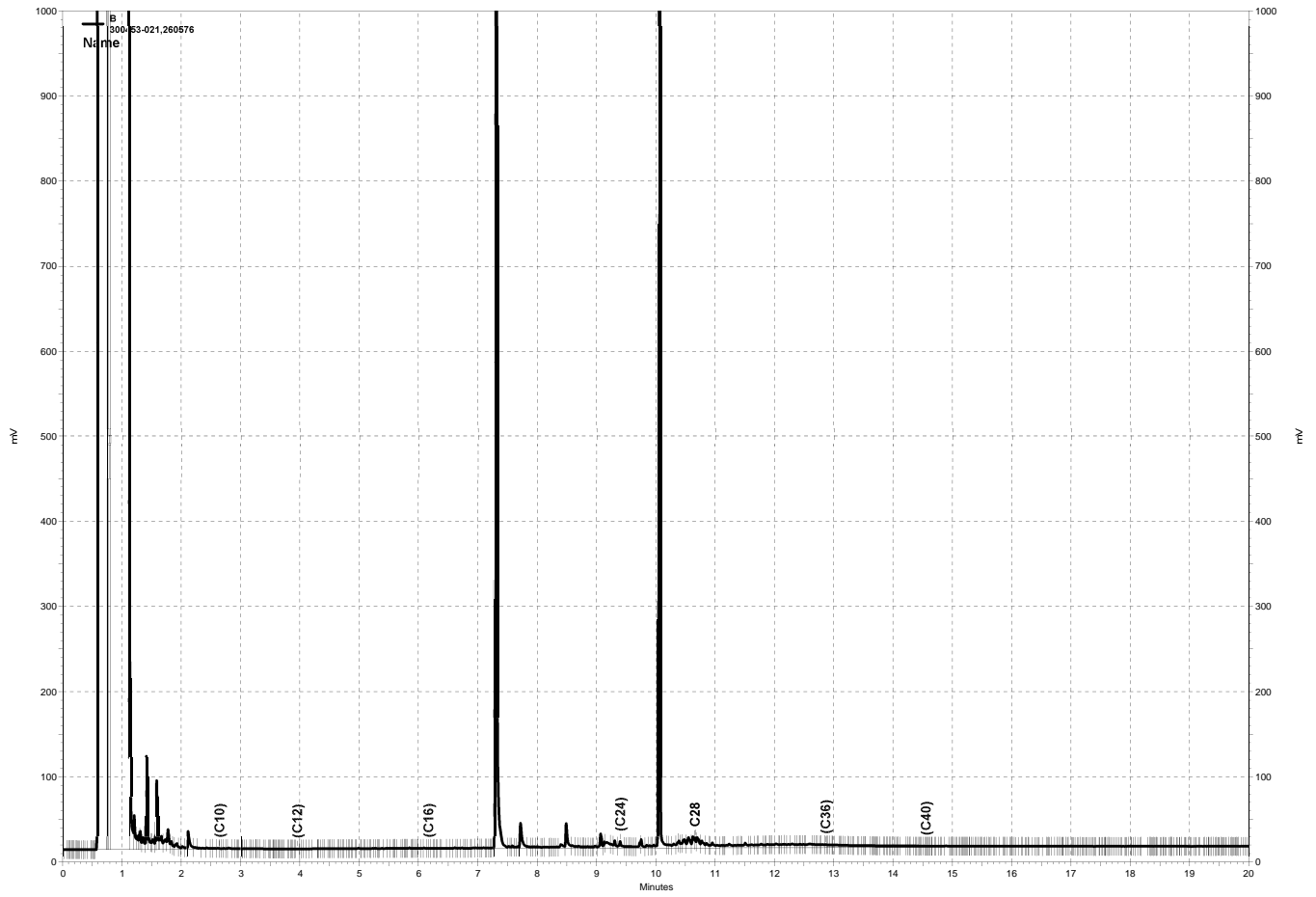
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\169b017, B



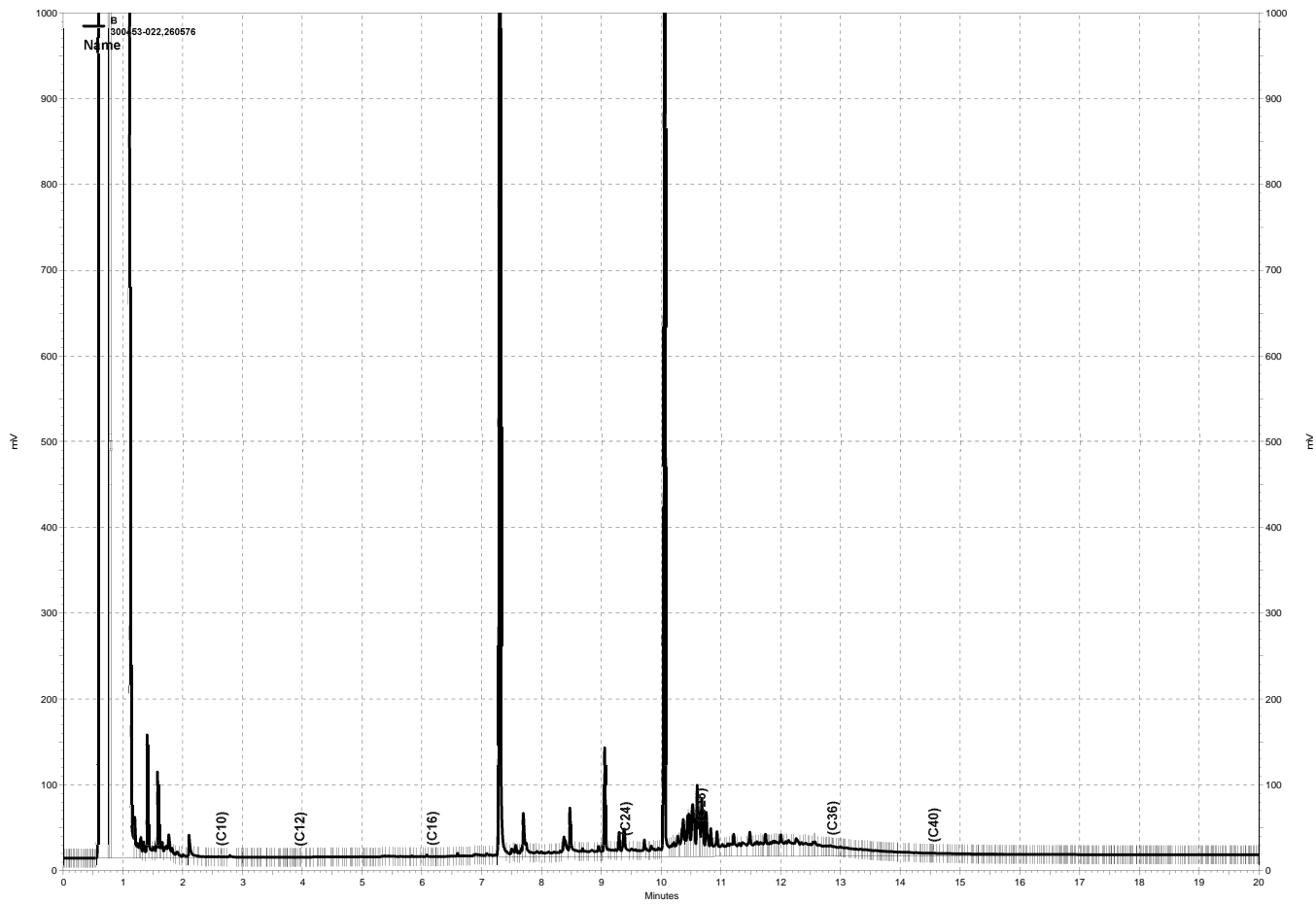
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\169b018, B



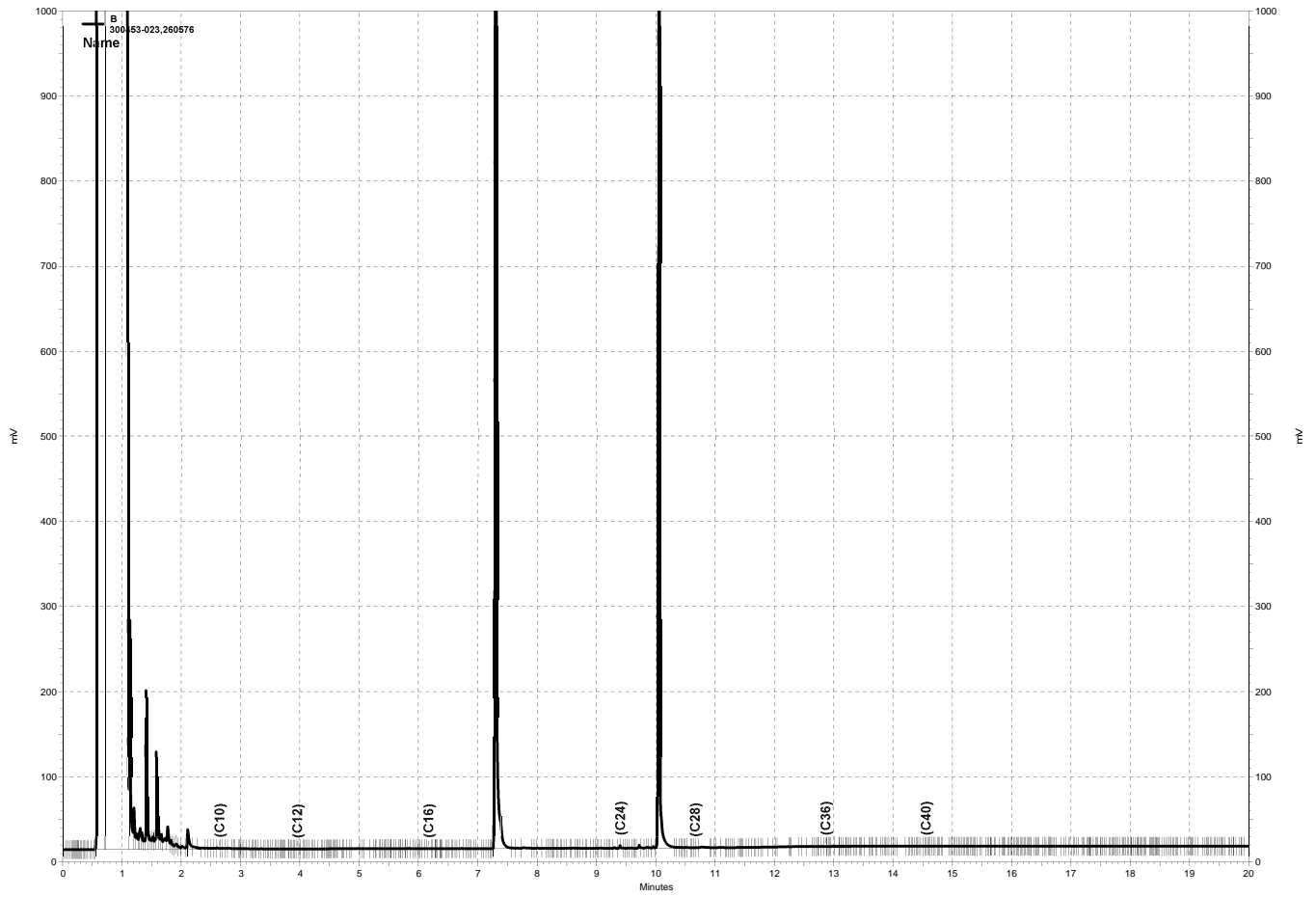
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\169b019, B



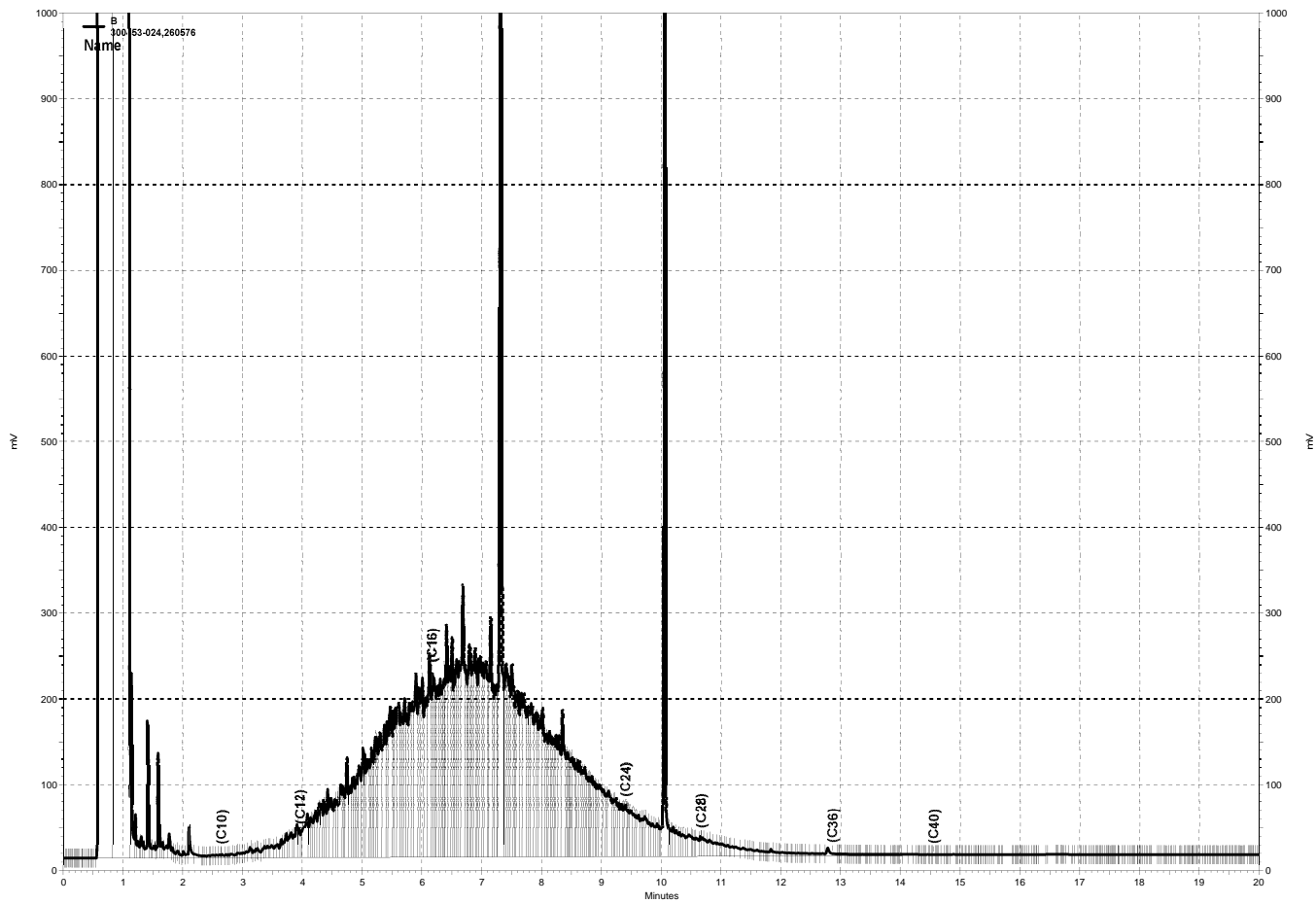
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\169b021, B



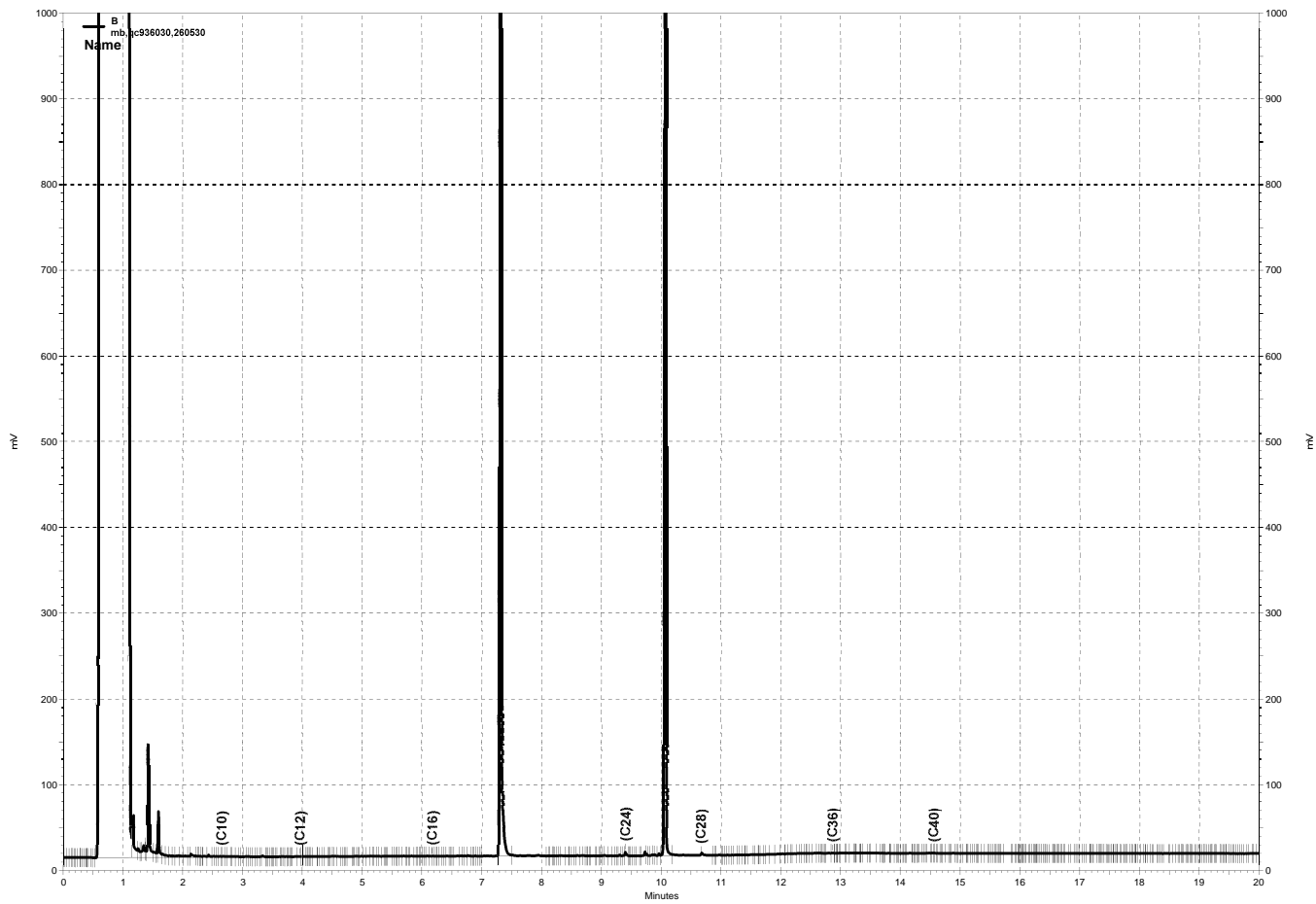
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\169b022, B



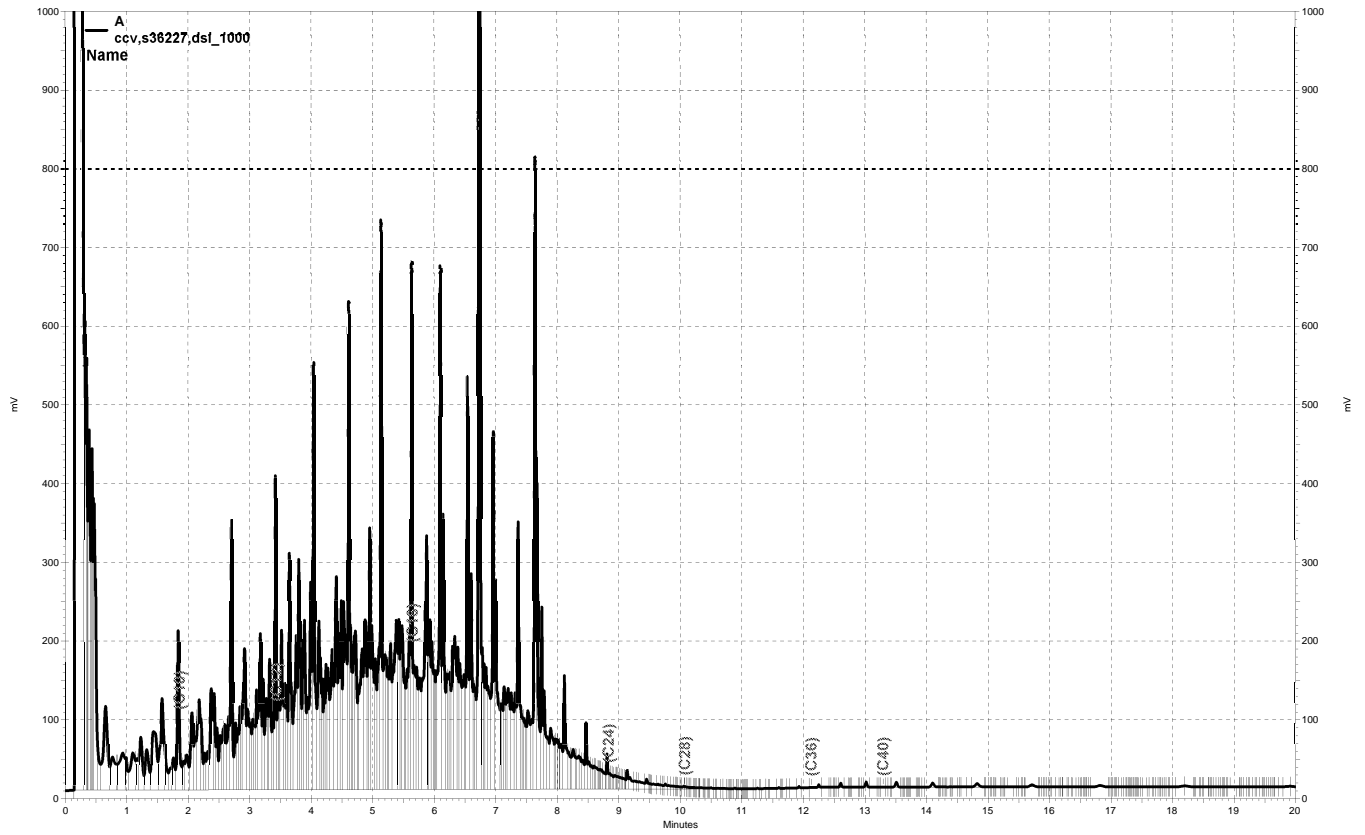
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\169b023, B



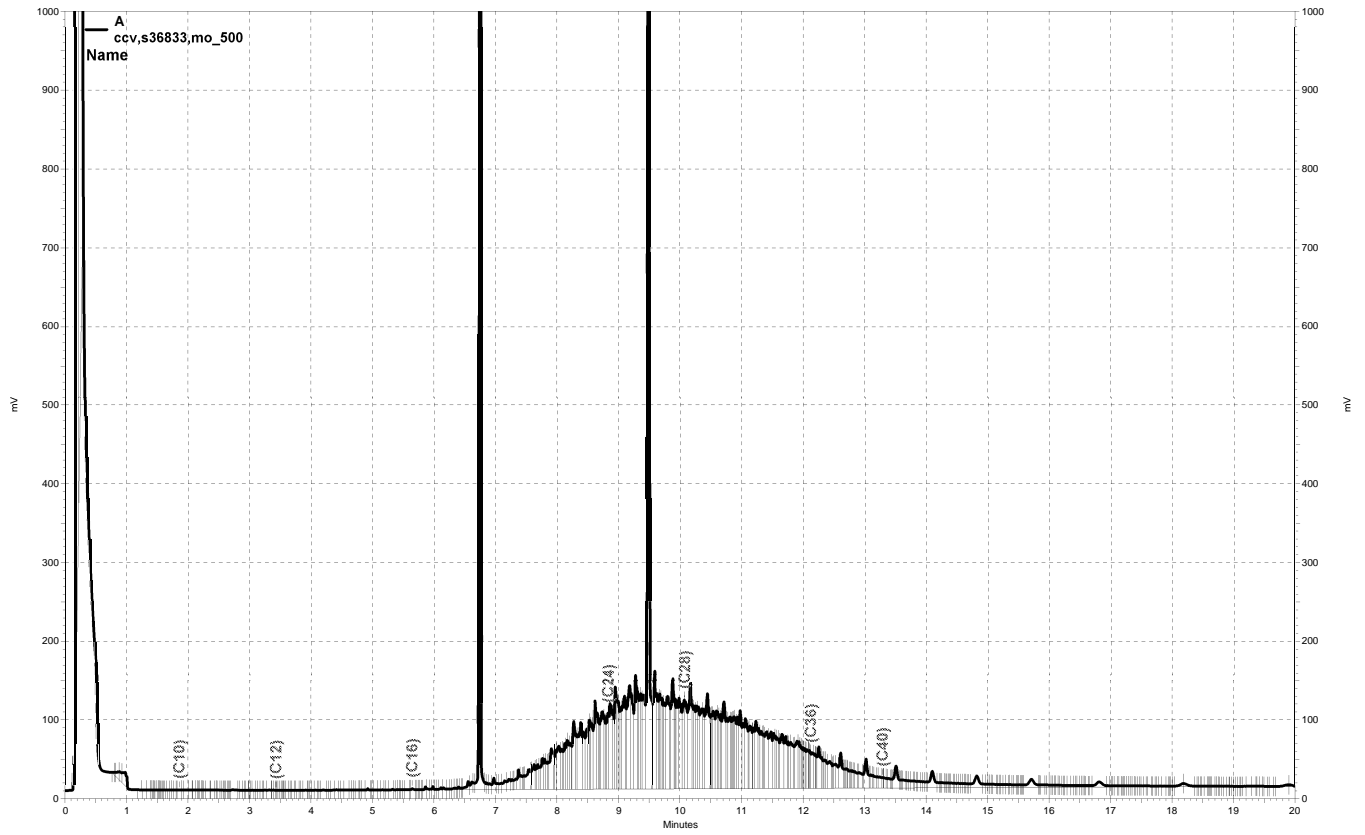
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\169b024, B



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\166b005, B



— \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a037, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\165a038, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 300453 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228163090001
 Units : mg/L

Name : HEXOTP_113
 Date : 24-APR-2018 17:47
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_058	228163090058	HEX OTP_5	24-APR-2018 17:47	S36499
L2	113_059	228163090059	HEX OTP_10	24-APR-2018 18:15	S36500
L3	113_060	228163090060	HEX OTP_25	24-APR-2018 18:43	S36501
L4	113_061	228163090061	HEX OTP_50	24-APR-2018 19:10	S36502
L5	113_062	228163090062	HEX OTP_100	24-APR-2018 19:38	S36503
L6	113_063	228163090063	HEX OTP_200	24-APR-2018 20:06	S36504

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	53564	53868	53293	52451	51731	53994	AVRG		1.88E-5		53150	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	5.0000	1	10.000	1	25.000	0	50.000	-1	100.00	-3	200.00	2

CB1 04/25/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1 Date: 04/25/18 Reviewer: EAH Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300453 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

ENTHALPY INITIAL CALIBRATION FOR 300453 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300453 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178237902003
 Units : mg/L

Name : HEXOTP_165
 Date : 14-JUN-2018 20:26
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	165a013	178237902013	HEXOTP_5	14-JUN-2018 20:26	S36499
L2	165a014	178237902014	HEXOTP_10	14-JUN-2018 20:53	S36500
L3	165a015	178237902015	HEXOTP_25	14-JUN-2018 21:21	S36501
L4	165a016	178237902016	HEXOTP_50	14-JUN-2018 21:48	S36502
L5	165a017	178237902017	HEXOTP_100	14-JUN-2018 22:16	S36503
L6	165a018	178237902018	HEXOTP_200	14-JUN-2018 22:44	S36504

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
o-Terphenyl	67256	70054	67812	66803	66618	66840	AVRG		1.48E-5		67564	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.0000	0	10.000	4	25.000	0	50.000	-1	100.00	-1	200.00	-1

CB1 06/15/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 06/15/18

Reviewer: EAH

Date: 06/15/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 300453 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178237902001
 Units : mg/L

Name : DSL_165
 Date : 14-JUN-2018 23:40
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	165a020	178237902020	DSL_10	14-JUN-2018 23:40	S36610
L2	165a021	178237902021	DSL_100	15-JUN-2018 00:08	S36611
L3	165a022	178237902022	DSL_500	15-JUN-2018 00:36	S36613
L4	165a023	178237902023	DSL_1000	15-JUN-2018 01:04	S36615
L5	165a024	178237902024	DSL_5000	15-JUN-2018 01:31	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	54554	57021	59236	58840	56181	AVRG		1.75E-5		57167	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-5	100.00	0	500.00	4	1000.0	3	5000.0	-2

CB1 06/15/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 06/15/18

Reviewer: EAH

Date: 06/15/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300453 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178237902001

Name : DSL_165
Cal Date : 14-JUN-2018

ICV 178237902026 (165a026 15-JUN-2018) stds: S35844

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	472.0	mg/L	-6	15	

Analyst: CB1

Date: 06/15/18

Reviewer: EAH

Date: 06/15/18

ENTHALPY INITIAL CALIBRATION FOR 300453 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178237902002
 Units : mg/L

Name : MO_165
 Date : 15-JUN-2018 03:22
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	165a028	178237902028	MO_50	15-JUN-2018 03:22	S36946
L2	165a029	178237902029	MO_250	15-JUN-2018 03:50	S36948
L3	165a030	178237902030	MO_500	15-JUN-2018 04:18	S36949
L4	165a031	178237902031	MO_1000	15-JUN-2018 04:46	S36951
L5	165a032	178237902032	MO_2500	15-JUN-2018 05:13	S36926 (2X)
L6	165a033	178237902033	MO_5000	15-JUN-2018 05:41	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	37919	39557	38252	38537	36728	37146	AVRG		2.63E-5		38023	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	0	250.00	4	500.00	1	1000.0	1	2500.0	-3	5000.0	-2

CB1 06/15/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/15/18

Reviewer: EAH

Date: 06/15/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228239402003 File : 166_003 Time : 15-JUN-2018 06:59
 Standards: S36757

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	44034	500.0	489.3	mg/L	-2	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	54348	50.00	51.13	mg/L	2	15	

CB1 06/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228239402004 File : 166_004 Time : 15-JUN-2018 07:28
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	29012	500.0	488.2	mg/L	-2	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	51742	50.00	48.67	mg/L	-3	15	

CB1 06/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228239402012 File : 166_012 Time : 15-JUN-2018 15:59
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	40755	1000	905.7	mg/L	-9	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	51884	50.00	48.81	mg/L	-2	15	

WA1 06/15/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228239402013 File : 166_013 Time : 15-JUN-2018 16:27
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	27997	500.0	471.1	mg/L	-6	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	50499	50.00	47.51	mg/L	-5	15	

WA1 06/15/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228239402030 File : 166_030 Time : 16-JUN-2018 00:51
 Standards: S36757

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	42839	500.0	476.0	mg/L	-5	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	53243	50.00	50.09	mg/L	0	15	

CB1 06/18/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/18/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228239402031 File : 166_031 Time : 16-JUN-2018 01:20
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	29416	500.0	495.0	mg/L	-1	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	51159	50.00	48.13	mg/L	-4	15	

CB1 06/18/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/18/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228243720004 File : 169_004 Time : 18-JUN-2018 07:26
 Standards: S36757

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	42233	500.0	469.3	mg/L	-6	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	51705	50.00	48.64	mg/L	-3	15	

CB1 06/18/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/18/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228243720005 File : 169_005 Time : 18-JUN-2018 07:54
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	26983	500.0	454.1	mg/L	-9	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	49679	50.00	46.73	mg/L	-7	15	

CB1 06/18/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/18/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
 Seqnum : 228243720012 File : 169_012 Time : 18-JUN-2018 14:42
 Standards: S36285

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	41101	250.0	228.3	mg/L	-9	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	49013	50.00	46.11	mg/L	-8	15	

WA1 06/18/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/18/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228243720013 File : 169_013 Time : 18-JUN-2018 15:10
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	27212	500.0	457.9	mg/L	-8	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	48905	50.00	46.01	mg/L	-8	15	

WA1 06/18/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/18/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228243720028 File : 169_028 Time : 18-JUN-2018 22:14
 Standards: S36757

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	42936	500.0	477.1	mg/L	-5	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	52191	50.00	49.10	mg/L	-2	15	

CB1 06/19/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/19/18 Reviewer: EAH Date: 06/19/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228243720029 File : 169_029 Time : 18-JUN-2018 22:43
 Standards: S36833

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	27818	500.0	468.1	mg/L	-6	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	50225	50.00	47.25	mg/L	-6	15	

CB1 06/19/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/19/18 Reviewer: EAH Date: 06/19/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 178237902037 File : 165a037 Time : 15-JUN-2018 07:33
 Standards: S36227

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178237902001	14-JUN-2018	57167	54688	1000	956.6	mg/L	-4	15	
o-Terphenyl	178237902003	14-JUN-2018	67564	66720	50.00	49.38	mg/L	-1	15	

CB1 06/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178237902038 File : 165a038 Time : 15-JUN-2018 08:01
 Standards: S36833

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178237902002	15-JUN-2018	38023	37073	500.0	487.5	mg/L	-2	15	
o-Terphenyl	178237902003	14-JUN-2018	67564	62621	50.00	46.34	mg/L	-7	15	

CB1 06/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/15/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178237902047 File : 165a047 Time : 15-JUN-2018 16:53
 Standards: S36833

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	178237902002	15-JUN-2018	38023	36993	500.0	486.5	mg/L	-3	15	
o-Terphenyl	178237902003	14-JUN-2018	67564	63207	50.00	46.78	mg/L	-6	15	

CB1 06/18/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/18/18 Reviewer: EAH Date: 06/18/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
 Seqnum : 178237902063 File : 165a063 Time : 16-JUN-2018 00:44
 Standards: S36757

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178237902001	14-JUN-2018	57167	55329	500.0	483.9	mg/L	-3	15	
o-Terphenyl	178237902003	14-JUN-2018	67564	66517	50.00	49.22	mg/L	-2	15	

CB1 06/18/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/18/18 Reviewer: EAH Date: 06/19/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178237902064 File : 165a064 Time : 16-JUN-2018 01:12
 Standards: S36833

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178237902002	15-JUN-2018	38023	38431	500.0	505.4	mg/L	1	15	
o-Terphenyl	178237902003	14-JUN-2018	67564	63534	50.00	47.02	mg/L	-6	15	

CB1 06/18/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/18/18 Reviewer: EAH Date: 06/19/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178237902

Instrument : GC17A
 Method : EPA 8015B

Begun : 06/14/18 05:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	165a001	IB				06/14/18 05:02	1.0	
002	165a002	X	CMARKER			06/14/18 05:29	1.0	1
003	165a003	CCV	DSL_500			06/14/18 05:57	1.0	2
004	165a004	IB				06/14/18 06:45	1.0	
005	165a005	XCMARKER	C8-C40			06/14/18 07:13	1.0	1
006	165a006	CCV	DSL_500			06/14/18 07:42	1.0	2
007	165a007	CCV	MO_500			06/14/18 08:10	1.0	3
008	165a008	CCV	MO_500			06/14/18 08:53	1.0	3
009	165a009	CCV	MO_500			06/14/18 09:21	1.0	3
010	165a010	IB				06/14/18 17:28	1.0	
011	165a011	IB				06/14/18 19:31	1.0	
012	165a012	IB	CALIB			06/14/18 19:59	1.0	
013	165a013	ICAL	HEXOTP_5			06/14/18 20:26	1.0	4
014	165a014	ICAL	HEXOTP_10			06/14/18 20:53	1.0	5
015	165a015	ICAL	HEXOTP_25			06/14/18 21:21	1.0	6
016	165a016	ICAL	HEXOTP_50			06/14/18 21:48	1.0	7
017	165a017	ICAL	HEXOTP_100			06/14/18 22:16	1.0	8
018	165a018	ICAL	HEXOTP_200			06/14/18 22:44	1.0	9
019	165a019	IB	CALIB			06/14/18 23:12	1.0	
020	165a020	ICAL	DSL_10			06/14/18 23:40	1.0	10
021	165a021	ICAL	DSL_100			06/15/18 00:08	1.0	11
022	165a022	ICAL	DSL_500			06/15/18 00:36	1.0	12
023	165a023	ICAL	DSL_1000			06/15/18 01:04	1.0	13
024	165a024	ICAL	DSL_5000			06/15/18 01:31	1.0	14
025	165a025	IB	CALIB			06/15/18 01:59	1.0	
026	165a026	ICV	DSL_500			06/15/18 02:27	1.0	15
027	165a027	IB	CALIB			06/15/18 02:55	1.0	
028	165a028	ICAL	MO_50			06/15/18 03:22	1.0	16
029	165a029	ICAL	MO_250			06/15/18 03:50	1.0	17
030	165a030	ICAL	MO_500			06/15/18 04:18	1.0	18
031	165a031	ICAL	MO_1000			06/15/18 04:46	1.0	19
032	165a032	ICAL	MO_2500			06/15/18 05:13	1.0	20
033	165a033	ICAL	MO_5000			06/15/18 05:41	1.0	20
034	165a034	IB	CALIB			06/15/18 06:09	1.0	
035	165a035	CMARKER	C8-C40			06/15/18 06:37	1.0	1
036	165a036	IB	CALIB			06/15/18 07:05	1.0	
037	165a037	CCV	DSL_1000			06/15/18 07:33	1.0	21
038	165a038	CCV	MO_500			06/15/18 08:01	1.0	3
039	165a039	SAMPLE	300412-025	Soil	260530	06/15/18 12:09	1.0	
040	165a040	SAMPLE	300453-001	Soil	260530	06/15/18 12:37	1.0	
041	165a041	SAMPLE	300453-002	Soil	260530	06/15/18 13:04	1.0	
042	165a042	SAMPLE	300453-003	Soil	260530	06/15/18 13:32	1.0	
043	165a043	SAMPLE	300453-004	Soil	260530	06/15/18 14:00	1.0	
044	165a044	SAMPLE	300453-005	Soil	260530	06/15/18 14:27	1.0	
045	165a045	IB				06/15/18 15:58	1.0	
046	165a046	CCV	DSL_250			06/15/18 16:25	1.0	22
047	165a047	CCV	MO_500			06/15/18 16:53	1.0	3
048	165a048	X	CMARKER			06/15/18 17:21	1.0	1
049	165a049	SAMPLE	300453-006	Soil	260555	06/15/18 18:16	1.0	
050	165a050	SAMPLE	300453-007	Soil	260555	06/15/18 18:44	1.0	
051	165a051	SAMPLE	300453-008	Soil	260555	06/15/18 19:12	1.0	
052	165a052	SAMPLE	300453-009	Soil	260555	06/15/18 19:39	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	113_001	IB					04/23/18 06:10	1.0	
002	113_002	IB					04/23/18 06:38	1.0	
003	113_003	X	CMARKER				04/23/18 07:06	1.0	1
004	113_004	CCV	DSL_500				04/23/18 07:34	1.0	2
005	113_005	CCV	MO_500				04/23/18 08:35	1.0	3
006	113_006	CCV	DSL_500				04/23/18 09:02	1.0	2
007	113_007	IB					04/23/18 12:40	1.0	
008	113_008	X	CMARKER				04/23/18 13:07	1.0	1
009	113_009	CCV	DSL_500				04/23/18 13:35	1.0	2
010	113_010	CCV	MO_500				04/23/18 14:03	1.0	3
012	113_012	IB					04/23/18 15:27	1.0	
013	113_013	SAMPLE	299115-001		Soil	258772	04/23/18 16:57	1.0	
014	113_014	SAMPLE	299115-002		Soil	258772	04/23/18 17:25	1.0	
015	113_015	SAMPLE	299115-003		Soil	258772	04/23/18 17:53	1.0	
016	113_016	SAMPLE	299115-004		Soil	258772	04/23/18 18:20	1.0	
017	113_017	SAMPLE	299056-001		Soil	258772	04/23/18 18:48	2.0	
018	113_018	IB					04/23/18 19:16	1.0	
019	113_019	SAMPLE	299117-001		Soil	258772	04/23/18 19:44	1.0	
020	113_020	SAMPLE	299117-002		Soil	258772	04/23/18 20:11	1.0	
021	113_021	MS	QC929007	S	Soil	258726	04/23/18 20:39	1.0	
022	113_022	MSD	QC929008	S	Soil	258726	04/23/18 21:07	1.0	
023	113_023	IB					04/23/18 21:35	1.0	
024	113_024	CCV	DSL_250				04/23/18 22:03	1.0	4
025	113_025	CCV	MO_500				04/23/18 22:31	1.0	3
026	113_026	X	CMARKER				04/23/18 22:59	1.0	1
027	113_027	BLANK	QC929171		Soil	258772	04/23/18 23:27	1.0	
028	113_028	LCS	QC929172		Soil	258772	04/23/18 23:55	1.0	
029	113_029	MSS	299056-002		Soil	258772	04/24/18 00:23	1.0	
030	113_030	MS	QC929173		Soil	258772	04/24/18 00:51	1.0	
031	113_031	MSD	QC929174		Soil	258772	04/24/18 01:19	1.0	
032	113_032	SAMPLE	299118-001		Soil	258772	04/24/18 01:47	1.0	
033	113_033	SAMPLE	299119-001		Soil	258772	04/24/18 02:14	1.0	
034	113_034	IB					04/24/18 02:42	1.0	
035	113_035	SAMPLE	299126-001		Soil	258772	04/24/18 03:10	1.0	
036	113_036	SAMPLE	299126-002		Soil	258772	04/24/18 03:38	1.0	
037	113_037	SAMPLE	299116-001		Soil	258772	04/24/18 04:06	1.0	
038	113_038	SAMPLE	299116-002		Soil	258772	04/24/18 04:34	1.0	
039	113_039	IB					04/24/18 05:02	1.0	
040	113_040	CCV	DSL_500				04/24/18 05:30	1.0	2
041	113_041	CCV	MO_500				04/24/18 05:58	1.0	3
042	113_042	X	CMARKER				04/24/18 06:26	1.0	1
043	113_043	SAMPLE	299056-005		Soil	258786	04/24/18 07:10	1.0	
044	113_044	SAMPLE	299056-006		Soil	258786	04/24/18 07:38	1.0	
045	113_045	SAMPLE	299055-001		Soil	258786	04/24/18 08:10	1.0	
046	113_046	SAMPLE	299055-002		Soil	258786	04/24/18 08:38	1.0	
047	113_047	SAMPLE	299055-004		Soil	258786	04/24/18 09:06	1.0	
048	113_048	SAMPLE	299055-005		Soil	258786	04/24/18 09:34	1.0	
049	113_049	SAMPLE	299055-006		Soil	258786	04/24/18 10:02	1.0	
050	113_050	SAMPLE	299055-007		Soil	258786	04/24/18 10:30	1.0	
051	113_051	CCV	DSL_1000				04/24/18 10:58	1.0	5
052	113_052	CCV	MO_500				04/24/18 11:26	1.0	3
053	113_053	X	CMARKER				04/24/18 11:54	1.0	1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B Begun : 04/23/18 06:10
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	113_054	CCV	DSL_1000				04/24/18 12:22	1.0	5
055	113_055	CCV	DSL_1000				04/24/18 12:50	1.0	5
056	113_056	IB					04/24/18 16:52	1.0	
057	113_057	IB	CALIB				04/24/18 17:20	1.0	
058	113_058	ICAL	HEX OTP_5				04/24/18 17:47	1.0	6
059	113_059	ICAL	HEX OTP_10				04/24/18 18:15	1.0	7
060	113_060	ICAL	HEX OTP_25				04/24/18 18:43	1.0	8
061	113_061	ICAL	HEX OTP_50				04/24/18 19:10	1.0	9
062	113_062	ICAL	HEX OTP_100				04/24/18 19:38	1.0	10
063	113_063	ICAL	HEX OTP_200				04/24/18 20:06	1.0	11
064	113_064	IB	CALIB				04/24/18 20:33	1.0	
065	113_065	ICAL	DSL_10				04/24/18 21:01	1.0	12
066	113_066	ICAL	DSL_100				04/24/18 21:29	1.0	13
067	113_067	ICAL	DSL_500				04/24/18 21:57	1.0	14
068	113_068	ICAL	DSL_1000				04/24/18 22:25	1.0	15
069	113_069	ICAL	DSL_5000				04/24/18 22:53	1.0	16
070	113_070	IB	CALIB				04/24/18 23:21	1.0	
071	113_071	ICV	DSL_500				04/24/18 23:49	1.0	17
072	113_072	IB	CALIB				04/25/18 00:17	1.0	
073	113_073	ICAL	MO_50				04/25/18 00:45	1.0	18
074	113_074	ICAL	MO_250				04/25/18 01:13	1.0	19
075	113_075	ICAL	MO_500				04/25/18 01:41	1.0	20
076	113_076	ICAL	MO_1000				04/25/18 02:09	1.0	21
077	113_077	ICAL	MO_2500				04/25/18 02:37	1.0	22
078	113_078	ICAL	MO_5000				04/25/18 03:05	1.0	22
079	113_079	IB	CALIB				04/25/18 03:33	1.0	
080	113_080	CMARKER	C8-C50				04/25/18 04:01	1.0	23
081	113_081	IB	CALIB				04/25/18 04:29	1.0	

CB1 04/25/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 81.

CB1 04/23/18 : Hardware failure (bent syringe) for run at position 4, RR DSL opening CCV.

WA1 04/23/18 : Position 11 was mis-injected.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S35149 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S36610 13=S36611 14=S36613 15=S36615 16=S36609 17=S35164 18=S34924 19=S34925 20=S34926 21=S34927 22=S34923
 23=S35483

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228223554

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/04/18 05:54
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	155_001	IB				06/04/18 05:54	1.0	
002	155_002	CCV	DSL_500			06/04/18 06:22	1.0	1
003	155_003	CCV	MO_500			06/04/18 06:51	1.0	2
004	155_004	X	CMARKER			06/04/18 07:19	1.0	3
005	155_005	CCV	JET_250			06/04/18 08:37	1.0	4
006	155_006	BLANK	QC934363	Water	260120	06/04/18 11:26	1.0	
007	155_007	BS	QC934364	Water	260120	06/04/18 11:54	1.0	
008	155_008	BSD	QC934365	Water	260120	06/04/18 12:23	1.0	
009	155_009	SAMPLE	300258-001	Water	260120	06/04/18 12:51	1.0	
010	155_010	CCV	DSL_1000			06/04/18 13:19	1.0	5
011	155_011	CCV	MO_500			06/04/18 14:54	1.0	2
012	155_012	CCV	JET_250			06/04/18 15:23	1.0	4
013	155_013	X	CMARKER			06/04/18 15:51	1.0	3
014	155_014	IB				06/04/18 16:20	1.0	
015	155_015	IB	CALIB			06/04/18 16:48	1.0	
016	155_016	ICAL	MO_50			06/04/18 17:17	1.0	6
017	155_017	ICAL	MO_250			06/04/18 17:45	1.0	7
018	155_018	ICAL	MO_500			06/04/18 18:14	1.0	8
019	155_019	ICAL	MO_1000			06/04/18 18:43	1.0	9
020	155_020	ICAL	MO_2500			06/04/18 19:11	1.0	10
021	155_021	ICAL	MO_5000			06/04/18 19:39	1.0	10
022	155_022	IB	CALIB			06/04/18 20:08	1.0	
023	155_023	CMARKER	C8-C40			06/04/18 20:36	1.0	3
024	155_024	IB	CALIB			06/04/18 21:04	1.0	

CB1 06/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228239402

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/15/18 06:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	166_001	IB				06/15/18 06:02	1.0	
002	166_002	X	CMARKER			06/15/18 06:30	1.0	1
003	166_003	CCV	DSL_500			06/15/18 06:59	1.0	2
004	166_004	CCV	MO_500			06/15/18 07:28	1.0	3
005	166_005	BLANK	QC936030	Soil	260530	06/15/18 12:09	1.0	
006	166_006	LCS	QC936031	Soil	260530	06/15/18 12:37	1.0	
007	166_007	MSS	300412-022	Soil	260530	06/15/18 13:06	1.0	
008	166_008	MS	QC936032	Soil	260530	06/15/18 13:34	1.0	
009	166_009	MSD	QC936033	Soil	260530	06/15/18 14:02	1.0	
010	166_010	SAMPLE	300412-010	Soil	260530	06/15/18 14:31	1.0	
011	166_011	IB				06/15/18 15:31	1.0	
012	166_012	CCV	DSL_1000			06/15/18 15:59	1.0	4
013	166_013	CCV	MO_500			06/15/18 16:27	1.0	3
014	166_014	X	CMARKER			06/15/18 16:55	1.0	1
015	166_015	CHECK	CCV			06/15/18 17:24	1.0	5
016	166_016	BLANK	QC936141	Soil	260555	06/15/18 18:13	1.0	
017	166_017	LCS	QC936142	Soil	260555	06/15/18 18:41	1.0	
018	166_018	MSS	300453-012	Soil	260555	06/15/18 19:09	1.0	
019	166_019	MS	QC936143	Soil	260555	06/15/18 19:38	1.0	
020	166_020	MSD	QC936144	Soil	260555	06/15/18 20:06	1.0	
021	166_021	SAMPLE	300660-001	Soil	260555	06/15/18 20:34	1.0	
022	166_022	IB				06/15/18 21:02	1.0	
023	166_023	SAMPLE	300639-031	Soil	260555	06/15/18 21:31	1.0	
024	166_024	SAMPLE	300639-032	Soil	260555	06/15/18 21:59	1.0	
025	166_025	SAMPLE	300639-036	Soil	260555	06/15/18 22:28	1.0	
026	166_026	SAMPLE	300639-035	Soil	260555	06/15/18 22:56	1.0	
027	166_027	SAMPLE	300639-033	Soil	260555	06/15/18 23:25	1.0	
028	166_028	SAMPLE	300639-034	Soil	260555	06/15/18 23:54	1.0	
029	166_029	IB				06/16/18 00:23	1.0	
030	166_030	CCV	DSL_500			06/16/18 00:51	1.0	2
031	166_031	CCV	MO_500			06/16/18 01:20	1.0	3
032	166_032	X	CMARKER			06/16/18 01:48	1.0	1

CB1 06/18/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228243720

Instrument : GC14B Begun : 06/18/18 06:00
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	169_001	IB				06/18/18 06:00	1.0		
002	169_002	IB				06/18/18 06:29	1.0		
003	169_003	X	CMARKER			06/18/18 06:57	1.0	1	
004	169_004	CCV	DSL_500			06/18/18 07:26	1.0	2	
005	169_005	CCV	MO_500			06/18/18 07:54	1.0	3	
006	169_006	BLANK	QC936222	Soil	260576	06/18/18 11:24	1.0		
007	169_007	LCS	QC936223	Soil	260576	06/18/18 11:52	1.0		
008	169_008	MSS	300712-001	Soil	260576	06/18/18 12:20	1.0		
009	169_009	MS	QC936224	Soil	260576	06/18/18 12:48	1.0		
010	169_010	MSD	QC936225	Soil	260576	06/18/18 13:16	1.0		
011	169_011	SAMPLE	300601-006	Soil	260576	06/18/18 13:44	1.0		
012	169_012	CCV	DSL_250			06/18/18 14:42	1.0	4	
013	169_013	CCV	MO_500			06/18/18 15:10	1.0	3	
014	169_014	X	CMARKER			06/18/18 15:38	1.0	1	
015	169_015	SAMPLE	300453-016	Soil	260576	06/18/18 16:07	1.0		
016	169_016	SAMPLE	300453-017	Soil	260576	06/18/18 16:35	1.0		
017	169_017	SAMPLE	300453-018	Soil	260576	06/18/18 17:03	1.0		
018	169_018	SAMPLE	300453-019	Soil	260576	06/18/18 17:32	1.0		2:BUNKC:12-40=5800
019	169_019	SAMPLE	300453-020	Soil	260576	06/18/18 18:00	1.0		
020	169_020	IB				06/18/18 18:28	1.0		
021	169_021	SAMPLE	300453-021	Soil	260576	06/18/18 18:57	1.0		
022	169_022	SAMPLE	300453-022	Soil	260576	06/18/18 19:25	1.0		
023	169_023	SAMPLE	300453-023	Soil	260576	06/18/18 19:53	1.0		
024	169_024	SAMPLE	300453-024	Soil	260576	06/18/18 20:22	1.0		
025	169_025	IB				06/18/18 20:50	1.0		
026	169_026	SAMPLE	300588-001	Water	260545	06/18/18 21:18	1.0		
027	169_027	SAMPLE	300588-002	Water	260545	06/18/18 21:46	1.0		
028	169_028	CCV	DSL_500			06/18/18 22:14	1.0	2	
029	169_029	CCV	MO_500			06/18/18 22:43	1.0	3	
030	169_030	X	CMARKER			06/18/18 23:12	1.0	1	

CB1 06/19/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

SAMPLE PREPARATION SUMMARY

Batch # : 260530
 Started By : JCT
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 15-JUN-2018 09:56
 Spike #2 ID : S37163

Analysis : TEH
 Finished By : JCT
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300412-010		Soil	49.82	5	1	0.1004		1				TEHM	Transferred weight from SA2539
300412-011		Soil	49.91	5	1	0.1002		1				TEHM	Transferred weight from SA2540
300412-012		Soil	49.72	5	1	0.1006		1				TEHM	Transferred weight from SA2541
300412-013		Soil	50	5	1	0.1000		1				TEHM	Transferred weight from SA2542
300412-014		Soil	50.2	5	1	0.0996		1				TEHM	Transferred weight from SA2543
300412-015		Soil	50.18	5	1	0.09964		1				TEHM	Transferred weight from SA2544
300412-016		Soil	49.84	5	1	0.1003		1				TEHM	Transferred weight from SA2545
300412-017		Soil	50.02	5	1	0.09996		1				TEHM	Transferred weight from SA2546
300412-018		Soil	49.95	5	1	0.1001		1				TEHM	Transferred weight from SA2547
300412-019		Soil	50	5	1	0.1000		1				TEHM	Transferred weight from SA2548
300412-020		Soil	50.31	5	1	0.09938		1				TEHM	Transferred weight from SA2549
300412-021		Soil	49.87	5	1	0.1003		1				TEHM	Transferred weight from SA2550
300412-022		Soil	50.24	5	1	0.09952		1				TEHM	Transferred weight from SA2551
300412-023		Soil	50.17	5	1	0.09966		1				TEHM	Transferred weight from SA2554
300412-025		Soil	50.48	5	1	0.09905		1				TEHM	Transferred weight from SA2555
300453-001		Soil	50.02	5	1	0.09996		1				TEHM	Transferred weight from SA2556
300453-002		Soil	49.95	5	1	0.1001		1				TEHM	Transferred weight from SA2557
300453-003		Soil	49.91	5	1	0.1002		1				TEHM	Transferred weight from SA2558
300453-004		Soil	49.96	5	1	0.1001		1				TEHM	Transferred weight from SA2559
300453-005		Soil	49.73	5	1	0.1005		1				TEHM	Transferred weight from SA2560
QC936030	BLANK	Soil	50	5	1	0.1000		1					
QC936031	LCS	Soil	50	5	1	0.1000		1	1				
QC936032	MS	Soil	49.91	5	1	0.1002		1	1				Transferred weight from SA2552
QC936033	MSD	Soil	49.97	5	1	0.1001		1	1				Transferred weight from SA2553

Analyst: WA1

Date: 06/15/18

Reviewer: EAH

Date: 06/18/18

LIMS Batch No: 260530
 LIMS Analysis: TEHM
 Date Extracted: 6/15/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

LIM
 LI
 Dat

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
300412-010	D	transferred	5.0		
11		from scale	5.0		
12		B-15	5.0		
13			5.0		
14			5.0		
15			5.0		
16			5.0		
17			5.0		
18			5.0		
19			5.0		
20			5.0		
21			5.0		
22			5.0		MSS
23			5.0		
24			5.0		not in batch per 6/15/18
25			5.0		
300453-001			5.0		
2			5.0		
3			5.0		
4			5.0		
5			5.0		
MB QC 936030	N/A	50.00	5.0		
LCS	1	50.00	5.0		
MS	2	transferred	5.0		
MSD	3	from B-15	5.0		

MS/MSD not included due to: insufficient volume, or other (reason) _____

Balance ID: B-15 Has been calibrated? Yes No

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄
1.0 mL of Surrogate solution was added to all samples
1.0 mL of Spike solution was added to all spikes
 1:1 CH₂Cl₂ (lot# EMS8068):Acetone (lot# FC181819) was added to all
 Solvent added at (time) 9:56
 Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to final volume in boiling H₂O bath
 Relinquished to TEH Department

Mfg & Lot # / LIMS # / Time	Date/Initials
EM16I285202	JCI 6/15/18
S371626	
S37162C	
S37163D	
EM18B2156592	

[Signature] 6/15/18
 Extraction Chemist / Date

Continued from page 7
 Continued on page 7

[Signature] 6/15/18
 Reviewed by / Date

SAMPLE PREPARATION SUMMARY

Batch # : 260555
 Started By : AS1
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 15-JUN-2018 14:09
 Spike #2 ID : S37163

Analysis : TEHM
 Finished By : AS1
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300453-006		Soil	50.14	5	1	0.09972		1				TEHM	Transferred weight from SA2561
300453-007		Soil	50.32	5	1	0.09936		1				TEHM	Transferred weight from SA2562
300453-008		Soil	49.99	5	1	0.1000		1				TEHM	Transferred weight from SA2563
300453-009		Soil	50.09	5	1	0.09982		1				TEHM	Transferred weight from SA2564
300453-010		Soil	49.94	5	1	0.1001		1				TEHM	Transferred weight from SA2565
300453-011		Soil	50.03	5	1	0.09994		1				TEHM	Transferred weight from SA2566
300453-012		Soil	49.89	5	1	0.1002		1				TEHM	Transferred weight from SA2567
300453-015		Soil	49.97	5	1	0.1001		1				TEHM	Transferred weight from SA2570
300554-001		Soil	49.6	5	1	0.1008		1				TEHM	See comment 1 below
300639-031		Soil	50.02	5	1	0.09996		1				TEHM	See comment 2 below
300639-032		Soil	49.94	5	1	0.1001		1				TEHM	See comment 3 below
300639-033		Soil	50.33	5	1	0.09934		1				TEHM	See comment 4 below
300639-034		Soil	50.32	5	1	0.09936		1				TEHM	See comment 5 below
300639-035		Soil	49.75	5	1	0.1005		1				TEHM	See comment 6 below
300639-036		Soil	50.17	5	1	0.09966		1				TEHM	See comment 7 below
300647-017		Soil	50.23	5	1	0.09954		1				TEHM	See comment 8 below
300647-018		Soil	49.92	5	1	0.1002		1				TEHM	See comment 9 below
300647-019		Soil	49.75	5	1	0.1005		1				TEHM	See comment 10 below
300647-020		Soil	50.01	5	1	0.09998		1				TEHM	See comment 11 below
300660-001		Soil	50.06	5	1	0.09988		1				TEHM	Transferred weight from SA2578
QC936141	BLANK	Soil	49.76	5	1	0.1005		1				TEHM	
QC936142	LCS	Soil	49.86	5	1	0.1003		1	1			TEHM	
QC936143	MS	Soil	49.8	5	1	0.1004		1	1			TEHM	Transferred weight from SA2568
QC936144	MSD	Soil	49.86	5	1	0.1003		1	1			TEHM	Transferred weight from SA2569

- Comment 1: Transferred weight from SA2571; slurry
- Comment 2: Transferred weight from SA2572; dense
- Comment 3: Transferred weight from SA2573; dense
- Comment 4: Transferred weight from SA2574; dense
- Comment 5: Transferred weight from SA2575; dense
- Comment 6: Transferred weight from SA2576; dense
- Comment 7: Transferred weight from SA2577; dense
- Comment 8: Comp of 0647(1-4) at 60g each; rocks
- Comment 9: Comp of 0647(5-8) at 60g each; rocks
- Comment 10: Comp of 0647(9-12) at 60g each; rocks
- Comment 11: Comp of 0647(13-16) at 60g each; rocks

Analyst: WA1 Date: 06/18/18 Reviewer: EAH Date: 06/18/18

LIMS Batch No: 260555
 LIMS Analysis TEHM
 Date Extracted: 6/15/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
300453-006	D	transferred from B-15	5.0		
7			5.0		
8			5.0		
9			5.0		
10			5.0		
11			5.0		
12			5.0		MSS
15			5.0		
300554-001	C		5.0		slurry
300639-031	D		5.0		dense
32			5.0		
33			5.0		
34			5.0		
35			5.0		
36			5.0		
300647-017	Comp	50.23	5.0		Comp of 0647(1-4) @ 60gen; rocks
18		49.92	5.0		(5-8)
19		49.75	5.0		(9-12)
20		50.01	5.0		(13-16)
300660-001	D	transferred from B-15	5.0		
MBQC936141	N/A	49.76	5.0		
LCS	2	49.86	5.0		
MS	3	transferred from B-15	5.0		
MSD	4		5.0		

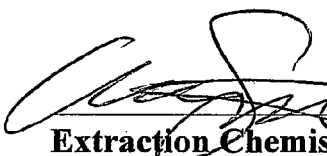
MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-15 Has been calibrated? Yes No

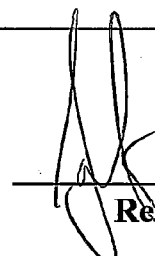
Mfg & Lot # / LIMS # / Time Date/Initials

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄
 1.0 mL of Surrogate solution was added to all samples
 1.0 mL of Spike solution was added to all spikes
 1:1 CH₂Cl₂ (lot# EM58068):Acetone (lot# FL181819) was added to all
 Solvent added at (time)
 Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to final volume in boiling H₂O bath
 Relinquished to TEH Department

EM16I285702	6:15:18	ASI	6/15/18
EM18B2156592			
337162C			
337163D			
1409			
EM0677C502			

 6/15/18
 Extraction Chemist / Date

Continued from page _____
 Continued on page _____

 6/15/18
 Reviewed by / Date

SAMPLE PREPARATION SUMMARY

Batch # : 260576
 Started By : JCT
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 18-JUN-2018 08:56
 Spike #2 ID : S37163

Analysis : TEH
 Finished By : JCT
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300453-016		Soil	49.88	5	1	0.1002		1				TEHM	Transferred weight from SA2579
300453-017		Soil	50.08	5	1	0.09984		1				TEHM	Transferred weight from SA2580
300453-018		Soil	49.69	5	1	0.1006		1				TEHM	Transferred weight from SA2581
300453-019		Soil	49.95	5	1	0.1001		1				TEHM	Transferred weight from SA2582
300453-020		Soil	49.92	5	1	0.1002		1				TEHM	Transferred weight from SA2583
300453-021		Soil	49.71	5	1	0.1006		1				TEHM	Transferred weight from SA2584
300453-022		Soil	50	5	1	0.1000		1				TEHM	Transferred weight from SA2585
300453-023		Soil	50.04	5	1	0.09992		1				TEHM	
300453-024		Soil	49.63	5	1	0.1007		1				TEHM	Transferred weight from SA2587
300540-002		Soil	49.89	5	1	0.1002		1				TEH	See comment 1 below
300561-001		Soil	50.24	5	1	0.09952		1				TEHM	Transferred weight from SA2588
300561-002		Soil	50.04	5	1	0.09992		1				TEHM	Transferred weight from SA2589
300561-003		Soil	49.77	5	1	0.1005		1				TEHM	Transferred weight from SA2590
300561-004		Soil	50.34	5	1	0.09932		1				TEHM	
300561-005		Soil	49.7	5	1	0.1006		1				TEHM	Transferred weight from SA2592
300561-006		Soil	50	5	1	0.1000		1				TEHM	Transferred weight from SA2593
300561-007		Soil	49.83	5	1	0.1003		1				TEHM	Transferred weight from SA2594
300561-008		Soil	49.81	5	1	0.1004		1				TEHM	
300601-006		Soil	50.49	5	1	0.09903		1				TEH	Transferred weight from SA2596
300712-001		Soil	49.66	5	1	0.1007		1				TEHM	Transferred weight from SA2597
QC936222	BLANK	Soil	50	5	1	0.1000		1					
QC936223	LCS	Soil	50	5	1	0.1000		1	1				
QC936224	MS	Soil	49.79	5	1	0.1004		1	1				Transferred weight from SA2598
QC936225	MSD	Soil	50.24	5	1	0.09952		1	1				Transferred weight from SA2599

Comment 1: comp of 300540-002 (A,B) @ 50g each

Analyst: WA1

Date: 06/18/18

Reviewer: EAH

Date: 06/18/18

LIMS Batch No: 260576
 LIMS Analysis: TEH
 Date Extracted: 6/18/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

LIM
 LIN
 Dat

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
300453-016	D	transferred	5.0		
17		from B-15	5.0		
18			5.0		
19			5.0		
20			5.0		
21			5.0		
22			5.0		
23			5.0		
24			5.0		
300540-002	comp	49.89	5.0		comp of 300540-002 A&B@50g ea
300561-001	B	transferred	5.0		
2		from B-15	5.0		
3			5.0		
4			5.0		
5			5.0		
6			5.0		
7			5.0		
8			5.0		
300601-006	A		5.0		
300712-001	B		5.0		MSS
MB QL934222	N/A	50.00	5.0		
LCS	3	50.00	5.0		
MS	4	transferred	5.0		
MSD	5	from B-15	5.0		
			5.0		

MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-15 Has been calibrated? Yes No

Mfg & Lot # / LIMS # / Time Date/Initials

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄
1.0 mL of Surrogate solution was added to all samples
1.0 mL of Spike solution was added to all spikes
 1:1 CH₂Cl₂ (lot# EMS8068):Acetone(lot# FC175264) was added to all
 Solvent added at (time) 8:56
 Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to final volume in boiling H₂O bath
 Relinquished to TEH Department

EM161285202	JCT 6/18/18
EM1882156592	
S37162C	
S37163D	
8:56	
EM1882156592	

[Signature] 6/18/18 Continued from page _____
 Continued on page _____
 Extraction Chemist / Date

[Signature] 6/18/18
 Reviewed by / Date

Laboratory Job Number 300453

ANALYTICAL REPORT

Semivolatile Organics by GC/MS SIM

Matrix: Water

Semivolatile Organics by GC/MS SIM

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1SB017[W]	Batch#:	260372
Lab ID:	300453-013	Sampled:	06/06/18
Matrix:	Water	Received:	06/06/18
Units:	ug/L	Prepared:	06/12/18
Diln Fac:	1.000	Analyzed:	06/13/18

Analyte	Result	RL	MDL
Naphthalene	0.2	0.1	0.02
Acenaphthylene	ND	0.1	0.02
Acenaphthene	ND	0.1	0.02
Fluorene	ND	0.1	0.02
Phenanthrene	0.05 J	0.1	0.02
Anthracene	ND	0.1	0.02
Fluoranthene	ND	0.1	0.02
Pyrene	ND	0.1	0.02
Benzo(a)anthracene	ND	0.1	0.02
Chrysene	ND	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.02
Benzo(a)pyrene	ND	0.1	0.02
Indeno(1,2,3-cd)pyrene	ND	0.1	0.02
Dibenz(a,h)anthracene	ND	0.1	0.02
Benzo(g,h,i)perylene	ND	0.1	0.02

Surrogate	%REC	Limits
Nitrobenzene-d5	80	48-124
2-Fluorobiphenyl	97	51-120
Terphenyl-d14	95	25-120

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1SB015[W]	Batch#:	260372
Lab ID:	300453-014	Sampled:	06/06/18
Matrix:	Water	Received:	06/06/18
Units:	ug/L	Prepared:	06/12/18
Diln Fac:	1.000	Analyzed:	06/13/18

Analyte	Result	RL	MDL
Naphthalene	0.04 J	0.1	0.02
Acenaphthylene	ND	0.1	0.02
Acenaphthene	ND	0.1	0.02
Fluorene	ND	0.1	0.02
Phenanthrene	0.03 J	0.1	0.02
Anthracene	ND	0.1	0.02
Fluoranthene	ND	0.1	0.02
Pyrene	ND	0.1	0.02
Benzo(a)anthracene	ND	0.1	0.02
Chrysene	ND	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.02
Benzo(a)pyrene	ND	0.1	0.02
Indeno(1,2,3-cd)pyrene	ND	0.1	0.02
Dibenz(a,h)anthracene	ND	0.1	0.02
Benzo(g,h,i)perylene	ND	0.1	0.02

Surrogate	%REC	Limits
Nitrobenzene-d5	76	48-124
2-Fluorobiphenyl	87	51-120
Terphenyl-d14	92	25-120

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC935379	Batch#:	260372
Matrix:	Water	Prepared:	06/11/18
Units:	ug/L	Analyzed:	06/12/18

Analyte	Result	RL	MDL
Naphthalene	ND	0.1	0.02
Acenaphthylene	ND	0.1	0.02
Acenaphthene	ND	0.1	0.02
Fluorene	ND	0.1	0.02
Phenanthrene	ND	0.1	0.02
Anthracene	ND	0.1	0.02
Fluoranthene	ND	0.1	0.02
Pyrene	ND	0.1	0.02
Benzo(a)anthracene	ND	0.1	0.02
Chrysene	ND	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.02
Benzo(a)pyrene	ND	0.1	0.02
Indeno(1,2,3-cd)pyrene	ND	0.1	0.02
Dibenz(a,h)anthracene	ND	0.1	0.02
Benzo(g,h,i)perylene	ND	0.1	0.02

Surrogate	%REC	Limits
Nitrobenzene-d5	71	48-124
2-Fluorobiphenyl	88	51-120
Terphenyl-d14	94	25-120

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	300453	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Matrix:	Water	Batch#:	260372
Units:	ug/L	Prepared:	06/11/18
Diln Fac:	1.000	Analyzed:	06/12/18

Type: BS Lab ID: QC935380

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	1.000	1.033	103	51-120
Pyrene	1.000	0.9142	91	60-120

Surrogate	%REC	Limits
Nitrobenzene-d5	83	48-124
2-Fluorobiphenyl	101	51-120
Terphenyl-d14	102	25-120

Type: BSD Lab ID: QC935381

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	1.000	1.048	105	51-120	1	48
Pyrene	1.000	0.9198	92	60-120	1	35

Surrogate	%REC	Limits
Nitrobenzene-d5	84	48-124
2-Fluorobiphenyl	101	51-120
Terphenyl-d14	101	25-120

RPD= Relative Percent Difference

Initial & Continuing Calibration Data

PEM Report

File Name : G:\msbna03\061218\VFC04.D
 Date Acquired : 12 Jun 2018 2:12 pm
 Sample Name : TUN,S36307
 Misc. Info : DFTPP/PEM
 Calib. Title : MSBNA03 BNA DFTPP/PEM
 Inst. Name : MSBNA03
 AcquisitionMeth: DFTPP03.M

Compound Name	Tailing Factor	RT	Area
Pentachlorophenol	1.820	5.13	495090
Benzidine	0.538	6.98	2431644
4,4'-DDT		7.99	1095167
% Breakdown: 4,4'-DDT	LIMIT <=20%	0%	PASS
Tailing: Pentachlorophenol	8270C <5.0	1.8	PASS
	8270D <=2	2	PASS
Tailing: Benzidine	8270C <3.0	0.5	PASS
	8270D <=2	1	PASS

PEM Report

File Name : G:\msbna03\061318\VFD04.D
 Date Acquired : 13 Jun 2018 12:45 pm
 Sample Name : TUN,S36307
 Misc. Info : DFTPP/PEM
 Calib. Title : MSBNA03 BNA DFTPP/PEM
 Inst. Name : MSBNA03
 AcquisitionMeth: DFTPP03.M

Compound Name	Tailing Factor	RT	Area
Pentachlorophenol	1.659	5.13	453727
Benzidine	0.453	6.98	2371338
4,4'-DDT		7.99	992625
% Breakdown: 4,4'-DDT	LIMIT <=20%	0%	PASS
Tailing: Pentachlorophenol	8270C <5.0	1.7	PASS
	8270D <=2	2	PASS
Tailing: Benzidine	8270C <3.0	0.5	PASS
	8270D <=2	0	PASS

ENTHALPY INITIAL CALIBRATION FOR 300453 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA03
 Calnum : 528189186001
 Units : ug/mL

Name : 3PAHSIM
 Date : 11-MAY-2018 12:02
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	veb08	528189186008	ICAL	11-MAY-2018 12:02	S36971
L2	veb09	528189186009	ICAL	11-MAY-2018 12:34	S36972
L3	veb10	528189186010	ICAL	11-MAY-2018 13:08	S36973
L4	veb11	528189186011	ICAL	11-MAY-2018 13:40	S36974
L5	veb12	528189186012	ICAL	11-MAY-2018 14:12	S36976
L6	veb13	528189186013	ICAL	11-MAY-2018 14:45	S36977
L7	veb14	528189186014	ICAL	11-MAY-2018 15:17	S36978

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r ² %RSD	Max %RSD	Min RF	Min r ²	Flg
Naphthalene	0.9309	0.9593	0.9775	0.9747	0.9430	0.8912	0.8908	AVRG		1.06590		0.9382	4	15	0.05	0.99	
Acenaphthylene	1.6081	1.6472	1.6759	1.6892	1.6573	1.5429	1.5049	AVRG		0.61807		1.6179	4	15	0.05	0.99	
Acenaphthene	0.9218	0.9535	0.9873	0.9877	0.9849	0.9161	0.9270	AVRG		1.04815		0.9541	3	15	0.05	0.99	
Fluorene	1.1744	1.2166	1.2535	1.2290	1.1967	1.1240	1.1008	AVRG		0.84389		1.1850	5	15	0.05	0.99	
Phenanthrene	0.9893	1.0001	1.0283	1.0273	0.9999	0.9087	0.9109	AVRG		1.01974		0.9806	5	15	0.05	0.99	
Anthracene	0.9811	0.9994	1.0239	1.0109	0.9819	0.9018	0.8967	AVRG		1.03006		0.9708	5	15	0.05	0.99	
Fluoranthene	1.1407	1.1541	1.1866	1.1836	1.1352	1.0251	1.0244	AVRG		0.89177		1.1214	6	15	0.05	0.99	
Pyrene	1.3486	1.3666	1.3972	1.3870	1.4018	1.2640	1.2723	AVRG		0.74171		1.3482	4	15	0.05	0.99	
Benzo(a)anthracene	1.2495	1.2430	1.2734	1.2935	1.2652	1.1310	1.1483	AVRG		0.81358		1.2291	5	15	0.05	0.99	
Chrysene	1.1114	1.1415	1.1963	1.2129	1.2146	1.0936	1.0886	AVRG		0.86861		1.1513	5	15	0.05	0.99	
Benzo(b)fluoranthene	1.2366	1.2524	1.2732	1.3173	1.2609	1.1568	1.1938	AVRG		0.80542		1.2416	4	15	0.05	0.99	
Benzo(k)fluoranthene	1.4264	1.4026	1.5105	1.4814	1.3485	1.3391	1.4312	AVRG		0.70425		1.4200	4	15	0.05	0.99	
Benzo(a)pyrene	1.0807	1.0909	1.1451	1.1967	1.1718	1.1043	1.1485	AVRG		0.88184		1.1340	4	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.1455	1.1766	1.2455	1.3118	1.3088	1.2674	1.3858	AVRG		0.79173		1.2631	7	15	0.05	0.99	
Dibenz(a,h)anthracene	0.8063	0.8173	0.8683	0.9193	0.9258	0.9174	1.0417	AVRG		1.11181		0.8994	9	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9563	0.9696	1.0090	1.0676	1.0536	1.0046	1.0554	AVRG		0.98367		1.0166	4	15	0.05	0.99	
Nitrobenzene-d5	0.4025	0.4184	0.4335	0.4369	0.4325	0.4115	0.4195	AVRG		2.36897		0.4221	3	15	0.05	0.99	
2-Fluorobiphenyl	1.4635	1.4653	1.4934	1.4884	1.4329	1.3234	1.2965	AVRG		0.70257		1.4233	6	15	0.05	0.99	
Terphenyl-d14	1.0908	1.1058	1.1503	1.1543	1.1561	1.0722	1.0917	AVRG		0.89500		1.1173	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.1000	-1	0.2000	2	0.5000	4	1.0000	4	2.0000	1	5.0000	-5	10.000	-5
Acenaphthylene	0.1000	-1	0.2000	2	0.5000	4	1.0000	4	2.0000	2	5.0000	-5	10.000	-7
Acenaphthene	0.1000	-3	0.2000	0	0.5000	3	1.0000	4	2.0000	3	5.0000	-4	10.000	-3
Fluorene	0.1000	-1	0.2000	3	0.5000	6	1.0000	4	2.0000	1	5.0000	-5	10.000	-7
Phenanthrene	0.1000	1	0.2000	2	0.5000	5	1.0000	5	2.0000	2	5.0000	-7	10.000	-7
Anthracene	0.1000	1	0.2000	3	0.5000	5	1.0000	4	2.0000	1	5.0000	-7	10.000	-8
Fluoranthene	0.1000	2	0.2000	3	0.5000	6	1.0000	6	2.0000	1	5.0000	-9	10.000	-9
Pyrene	0.1000	0	0.2000	1	0.5000	4	1.0000	3	2.0000	4	5.0000	-6	10.000	-6
Benzo(a)anthracene	0.1000	2	0.2000	1	0.5000	4	1.0000	5	2.0000	3	5.0000	-8	10.000	-7
Chrysene	0.1000	-3	0.2000	-1	0.5000	4	1.0000	5	2.0000	6	5.0000	-5	10.000	-5
Benzo(b)fluoranthene	0.1000	0	0.2000	1	0.5000	3	1.0000	6	2.0000	2	5.0000	-7	10.000	-4
Benzo(k)fluoranthene	0.1000	0	0.2000	-1	0.5000	6	1.0000	4	2.0000	-5	5.0000	-6	10.000	1
Benzo(a)pyrene	0.1000	-5	0.2000	-4	0.5000	1	1.0000	6	2.0000	3	5.0000	-3	10.000	1
Indeno(1,2,3-cd)pyrene	0.1000	-9	0.2000	-7	0.5000	-1	1.0000	4	2.0000	4	5.0000	0	10.000	10
Dibenz(a,h)anthracene	0.1000	-10	0.2000	-9	0.5000	-3	1.0000	2	2.0000	3	5.0000	2	10.000	16
Benzo(g,h,i)perylene	0.1000	-6	0.2000	-5	0.5000	-1	1.0000	5	2.0000	4	5.0000	-1	10.000	4
Nitrobenzene-d5	0.1000	-5	0.2000	-1	0.5000	3	1.0000	3	2.0000	2	5.0000	-3	10.000	-1
2-Fluorobiphenyl	0.1000	3	0.2000	3	0.5000	5	1.0000	5	2.0000	1	5.0000	-7	10.000	-9
Terphenyl-d14	0.1000	-2	0.2000	-1	0.5000	3	1.0000	3	2.0000	3	5.0000	-4	10.000	-2

JW1 05/11/18 [1,4-Dioxane]: Corrected automatically drawn baseline in all levels.

Analyst: JW1

Date: 05/11/18

Reviewer: TKM

Date: 05/11/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRGE=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 300453 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528189186001

Name : 3PAHSIM
Cal Date : 11-MAY-2018

ICV 528189186015 (veb15 11-MAY-2018) stds: S36862

Analyte	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.000	1.045	ug/mL	5	30	
Acenaphthylene	1.000	1.121	ug/mL	12	30	
Acenaphthene	1.000	1.048	ug/mL	5	20	
Fluorene	1.000	1.088	ug/mL	9	30	
Phenanthrene	1.000	1.095	ug/mL	9	30	
Anthracene	1.000	1.063	ug/mL	6	30	
Fluoranthene	1.000	1.092	ug/mL	9	20	
Pyrene	1.000	1.108	ug/mL	11	30	
Benzo(a)anthracene	1.000	1.046	ug/mL	5	30	
Chrysene	1.000	1.055	ug/mL	6	30	
Benzo(b)fluoranthene	1.000	0.9943	ug/mL	-1	30	
Benzo(k)fluoranthene	1.000	1.021	ug/mL	2	30	
Benzo(a)pyrene	1.000	1.089	ug/mL	9	20	
Indeno(1,2,3-cd)pyrene	1.000	1.038	ug/mL	4	30	
Dibenz(a,h)anthracene	1.000	1.041	ug/mL	4	30	
Benzo(g,h,i)perylene	1.000	1.114	ug/mL	11	30	

Analyst: JW1

Date: 05/11/18

Reviewer: TKM

Date: 05/11/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528235374005 File : vfc05 Time : 12-JUN-2018 14:29
 Cal : 528189186001 Caldate : 11-MAY-2018
 Standards: S36974

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	0.9382	0.9413	1.000	1.003	ug/mL	0	30	0.0500	
Acenaphthylene	1.6179	1.6749	1.000	1.035	ug/mL	4	30	0.0500	
Acenaphthene	0.9541	1.0948	1.000	1.148	ug/mL	15	20	0.0500	
Fluorene	1.1850	1.3046	1.000	1.101	ug/mL	10	30	0.0500	
Phenanthrene	0.9806	1.0426	1.000	1.063	ug/mL	6	30	0.0500	
Anthracene	0.9708	1.0080	1.000	1.038	ug/mL	4	30	0.0500	
Fluoranthene	1.1214	1.1996	1.000	1.070	ug/mL	7	20	0.0500	
Pyrene	1.3482	1.3297	1.000	0.9862	ug/mL	-1	30	0.0500	
Benzo(a)anthracene	1.2291	1.1991	1.000	0.9755	ug/mL	-2	30	0.0500	
Chrysene	1.1513	1.1596	1.000	1.007	ug/mL	1	30	0.0500	
Benzo(b)fluoranthene	1.2416	1.2212	1.000	0.9836	ug/mL	-2	30	0.0500	
Benzo(k)fluoranthene	1.4200	1.3703	1.000	0.9650	ug/mL	-3	30	0.0500	
Benzo(a)pyrene	1.1340	1.1100	1.000	0.9788	ug/mL	-2	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2631	1.3105	1.000	1.038	ug/mL	4	30	0.0500	
Dibenz(a,h)anthracene	0.8994	1.0548	1.000	1.173	ug/mL	17	30	0.0500	
Benzo(g,h,i)perylene	1.0166	1.0684	1.000	1.051	ug/mL	5	30	0.0500	
Nitrobenzene-d5	0.4221	0.3730	1.000	0.8835	ug/mL	-12	30	0.0500	
2-Fluorobiphenyl	1.4233	1.6163	1.000	1.136	ug/mL	14	30	0.0500	
Terphenyl-d14	1.1173	1.1068	1.000	0.9906	ug/mL	-1	30	0.0500	

JW1 06/12/18 [1,4-Dioxane]: Corrected automatically drawn baseline.

Analyst: JW1 Date: 06/12/18 Reviewer: LW Date: 06/12/18

ENTHALPY CONTINUING CALIBRATION FOR 300453 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528236804005 File : vfd05 Time : 13-JUN-2018 13:02
 Cal : 528189186001 Caldate : 11-MAY-2018
 Standards: S36974

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	0.9382	0.9559	1.000	1.019	ug/mL	2	30	0.0500	
Acenaphthylene	1.6179	1.6830	1.000	1.040	ug/mL	4	30	0.0500	
Acenaphthene	0.9541	1.0856	1.000	1.138	ug/mL	14	20	0.0500	
Fluorene	1.1850	1.3044	1.000	1.101	ug/mL	10	30	0.0500	
Phenanthrene	0.9806	1.0478	1.000	1.069	ug/mL	7	30	0.0500	
Anthracene	0.9708	1.0160	1.000	1.047	ug/mL	5	30	0.0500	
Fluoranthene	1.1214	1.2145	1.000	1.083	ug/mL	8	20	0.0500	
Pyrene	1.3482	1.3296	1.000	0.9862	ug/mL	-1	30	0.0500	
Benzo(a)anthracene	1.2291	1.1960	1.000	0.9731	ug/mL	-3	30	0.0500	
Chrysene	1.1513	1.1679	1.000	1.014	ug/mL	1	30	0.0500	
Benzo(b)fluoranthene	1.2416	1.2193	1.000	0.9820	ug/mL	-2	30	0.0500	
Benzo(k)fluoranthene	1.4200	1.4600	1.000	1.028	ug/mL	3	30	0.0500	
Benzo(a)pyrene	1.1340	1.1170	1.000	0.9850	ug/mL	-1	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2631	1.2743	1.000	1.009	ug/mL	1	30	0.0500	
Dibenz(a,h)anthracene	0.8994	1.0243	1.000	1.139	ug/mL	14	30	0.0500	
Benzo(g,h,i)perylene	1.0166	1.0279	1.000	1.011	ug/mL	1	30	0.0500	
Nitrobenzene-d5	0.4221	0.3881	1.000	0.9193	ug/mL	-8	30	0.0500	
2-Fluorobiphenyl	1.4233	1.6219	1.000	1.140	ug/mL	14	30	0.0500	
Terphenyl-d14	1.1173	1.1094	1.000	0.9929	ug/mL	-1	30	0.0500	

JW1 06/13/18 [1,4-Dioxane]: Corrected automatically drawn baseline.

Analyst: JW1 Date: 06/13/18 Reviewer: LW Date: 06/13/18

Logbooks & Sequences

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528235374

Date : 06/12/18
 Sequence : MSBNA03 vfc

Reference : vfc05
 Analyzed : 06/12/18 14:29

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+CCV/BS+CCV/LCS+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	25290	7.48	92963	9.12	53384	11.43	99409	13.39	90051	16.87	88403	18.61
		LOWER LIMIT	12645	6.98	46482	8.62	26692	10.93	49705	12.89	45026	16.37	44202	18.11
		UPPER LIMIT	50580	7.98	185926	9.62	106768	11.93	198818	13.89	180102	17.37	176806	19.11
005	CCV	CCV	25290	7.48	92963	9.12	53384	11.43	99409	13.39	90051	16.87	88403	18.61
006	SAMPLE	300409-008	22419	7.48	81818	9.11	48719	11.43	90910	13.39	87542	16.87	83846	18.61
007	SAMPLE	300409-009	21607	7.48	80429	9.11	48613	11.43	90148	13.39	85673	16.86	84364	18.61
008	SAMPLE	300491-005	22100	7.48	80904	9.12	50080	11.43	91266	13.39	84060	16.87	81614	18.61
009	BLANK	QC935379	23360	7.48	87128	9.11	53212	11.43	97027	13.39	90451	16.87	91239	18.61
010	BS	QC935380	23423	7.48	85929	9.11	50683	11.42	94176	13.38	86014	16.86	85914	18.61
011	BSD	QC935381	23145	7.48	84490	9.11	49934	11.43	92824	13.39	84959	16.86	85984	18.61
012	SAMPLE	300379-022	22894	7.48	82371	9.11	51407	11.43	91608	13.39	79258	16.86	79624	18.61
013	SAMPLE	300480-005	22706	7.48	83868	9.11	52323	11.42	93366	13.38	88355	16.87	81337	18.61

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528236804

Date : 06/13/18
 Sequence : MSBNA03 vfd

Reference : vfd05
 Analyzed : 06/13/18 13:02

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+CCV/BS+CCV/LCS+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	24476	7.48	89323	9.11	51870	11.42	98924	13.39	91323	16.87	85623	18.61
		LOWER LIMIT	12238	6.98	44662	8.61	25935	10.92	49462	12.89	45662	16.37	42812	18.11
		UPPER LIMIT	48952	7.98	178646	9.61	103740	11.92	197848	13.89	182646	17.37	171246	19.11
005	CCV	CCV	24476	7.48	89323	9.11	51870	11.42	98924	13.39	91323	16.87	85623	18.61
006	SAMPLE	300480-005	20853	7.48	77967	9.11	47933	11.42	89162	13.39	83387	16.86	77255	18.61
007	SAMPLE	300480-005	20526	7.48	73253	9.11	46329	11.42	87995	13.38	85581	16.86	80392	18.61
008	SAMPLE	300453-013	21667	7.48	78865	9.11	47502	11.42	87525	13.38	79232	16.86	75704	18.61
009	SAMPLE	300453-014	22910	7.48	83302	9.11	52128	11.42	95172	13.38	84123	16.86	82942	18.60

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528189186

Instrument : MSBNA03 Begun : 05/11/18 09:06
 Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv6, bna_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	veb01	IB	IB			05/11/18 09:06	1.0		?t
003	veb03	IB	IB			05/11/18 10:15	1.0		?t
004	veb04	TUN	DFTPP/PEM			05/11/18 10:40	1.0	1	
005	veb05	CCV	RTCHECK			05/11/18 11:00	1.0	2	1:BZBF=2.3
006	veb06	TUN	DFTPP/PEM			05/11/18 11:28	1.0	1	t
007	veb07	TUN	DFTPP/PEM			05/11/18 11:43	1.0	1	
008	veb08	ICAL	ICAL			05/11/18 12:02	1.0	3	
009	veb09	ICAL	ICAL			05/11/18 12:34	1.0	4	
010	veb10	ICAL	ICAL			05/11/18 13:08	1.0	5	
011	veb11	ICAL	ICAL			05/11/18 13:40	1.0	6	
012	veb12	ICAL	ICAL			05/11/18 14:12	1.0	2	
013	veb13	ICAL	ICAL			05/11/18 14:45	1.0	7	
014	veb14	ICAL	ICAL			05/11/18 15:17	1.0	8	
015	veb15	ICV	ICV			05/11/18 15:50	1.0	9	
016	veb16	TUN	DFTPP/PEM			05/11/18 16:24	1.0	1	
017	veb17	CCV	CCV			05/11/18 16:42	1.0	6	
018	veb18	LOD	218623-089	Water	258368	05/11/18 17:21	1.0	10	
019	veb19	LOD	218623-088	Water	258368	05/11/18 17:53	1.0	10	
020	veb20	LOD	209076-102	Soil	258329	05/11/18 18:25	1.0	10	
021	veb21	LOD	209076-103	Soil	258329	05/11/18 18:58	1.0	10	
022	veb22	LOD	209076-104	Soil	258329	05/11/18 19:30	1.0	10	
023	veb23	BLANK	QC926890	Soil	258206	05/11/18 20:02	1.0	10	
024	veb24	LOQ	298551-006	Soil	258047	05/11/18 20:35	1.0	10	
025	veb25	LOQ	298551-001	Water	258124	05/11/18 21:08	1.0	10	
026	veb26	MDL	298632-001	Soil	258206	05/11/18 21:41	1.0	10	
027	veb27	BLANK	QC931341	Soil	259346	05/11/18 22:14	1.0	10	
028	veb28	LCS	QC931342	Soil	259346	05/11/18 22:47	1.0	10	
029	veb29	BLANK	QC931546	Water	259395	05/11/18 23:20	1.0	10	
030	veb30	BS	QC931547	Water	259395	05/11/18 23:54	1.0	10	spk
031	veb31	BSD	QC931548	Water	259395	05/12/18 00:27	1.0	10	
032	veb32	SAMPLE	299490-005	Soil	259346	05/12/18 01:01	50.0	10	
033	veb33	MSS	299573-002	Soil	259346	05/12/18 01:34	10.0	10	
034	veb34	SAMPLE	299651-001	Water	259395	05/12/18 02:07	1.0	10	
035	veb35	SAMPLE	299360-008	Water	259109	05/12/18 02:42	2.0	10	high NT
036	veb36	SAMPLE	299348-005	Water	259020	05/12/18 03:14	4.0	10	high NT
037	veb37	CCV	CCV			05/12/18 03:49	1.0	6	

JW1 05/11/18 : Chemstation crashed, run 2 was lost.

JW1 05/11/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 15.

JW1 05/14/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 16 through 37.

Standards used: 1=S36307 2=S36976 3=S36971 4=S36972 5=S36973 6=S36974 7=S36977 8=S36978 9=S36862 10=S36018

Flags used: ?t=missing tune spk=5% spike rule t=tune failure

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528235374

Instrument : MSBNA03 Begun : 06/12/18 10:54
 Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv6, bna_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vfc01	IB	IB			06/12/18 10:54	1.0		?t
002	vfc02	IB	IB			06/12/18 11:27	1.0		?t
003	vfc03	TUN	DFTPP/PEM			06/12/18 11:52	1.0	1	t
004	vfc04	TUN	DFTPP/PEM			06/12/18 14:12	1.0	1	
005	vfc05	CCV	CCV			06/12/18 14:29	1.0	2	
006	vfc06	SAMPLE	300409-008	Soil	260362	06/12/18 15:06	1.0	3	
007	vfc07	SAMPLE	300409-009	Soil	260362	06/12/18 15:38	1.0	3	
008	vfc08	SAMPLE	300491-005	Soil	260362	06/12/18 16:10	1.0	3	
009	vfc09	BLANK	QC935379	Water	260372	06/12/18 16:42	1.0	3	
010	vfc10	BS	QC935380	Water	260372	06/12/18 17:14	1.0	3	
011	vfc11	BSD	QC935381	Water	260372	06/12/18 17:46	1.0	3	
012	vfc12	SAMPLE	300379-022	Water	260372	06/12/18 18:18	1.0	3	
013	vfc13	SAMPLE	300480-005	Soil	260362	06/12/18 18:50	500.0	3	high NT
014	vfc14	CCV	CCV			06/12/18 19:21	1.0	2	

JW1 06/13/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 14.

Standards used: 1=S36307 2=S36974 3=S36018

Flags used: ?t=missing tune t=tune failure

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528236804

Instrument : MSBNA03 Begun : 06/13/18 10:44
 Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv6, bna_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vfd01	IB	IB			06/13/18 10:44	1.0		?t
002	vfd02	IB	IB			06/13/18 11:17	1.0		?t
003	vfd03	TUN	DFTPP/PEM			06/13/18 11:42	1.0	1	t
004	vfd04	TUN	DFTPP/PEM			06/13/18 12:45	1.0	1	
005	vfd05	CCV	CCV			06/13/18 13:02	1.0	2	
006	vfd06	SAMPLE	300480-005	Soil	260362	06/13/18 13:35	250.0	3	high NT
007	vfd07	SAMPLE	300480-005	Soil	260362	06/13/18 14:07	25.0	3	high NT
008	vfd08	SAMPLE	300453-013	Water	260372	06/13/18 14:50	1.0	3	
009	vfd09	SAMPLE	300453-014	Water	260372	06/13/18 15:22	1.0	3	
010	vfd10	SAMPLE	300560-001	Water	260372	06/13/18 15:54	1.0	3	
011	vfd11	CCV	CCV			06/13/18 16:26	1.0	2	

JW1 06/14/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 11.

Standards used: 1=S36307 2=S36974 3=S36018

Flags used: ?t=missing tune t=tune failure

Laboratory Job Number 300453

ANALYTICAL REPORT

Wet Chemistry

Matrix: Soil

Percent Moisture Summary Report

Batch: 260351
 Date: 06/11/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
300379-021	11.28	17.96	16.88	84	16
300412-021	11.37	16.92	16.06	85	15
300412-022	11.31	18.40	17.39	86	14
300412-023	11.34	18.12	16.80	81	19
300412-025	11.05	17.35	16.37	84	16
300453-023	11.20	17.16	16.29	85	15
300453-024	11.06	17.59	16.58	85	15
300455-003	10.83	16.12	15.52	89	11
300455-006	11.24	16.62	16.11	91	9
300455-012	11.24	16.47	15.97	90	10
300455-015	10.85	16.31	15.75	90	10
300473-001	11.05	17.19	16.20	84	16
300473-002	10.86	16.85	16.08	87	13
300473-003	11.28	17.14	16.45	88	12
300482-001	11.05	18.04	17.26	89	11
300487-001	11.04	16.91	16.43	92	8
300508-001	11.35	17.64	17.23	93	7
300508-002	11.29	17.52	16.94	91	9
300508-003	10.89	17.06	16.37	89	11
QC935298	11.35	17.25	16.63	89	11
of 300508-003			RPD:	0.8%	6.2%

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

LIMS Batch #: 260351
 Date: 6-11-18

Page: 41
 Benchbook#: BK 4277

Balance ID: B-13
 calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLK	66	11.59	∅	11.59	
300379-021 D	70	11.28	17.96	16.88	
300412-021	16	11.37	16.92	16.06	
↓ -022	35	11.31	18.40	17.39	
↓ -023	84	11.34	18.12	16.80	
↓ -025	55	11.05	17.35	16.37	
300455-003 A	90	10.83	16.12	15.52	300455-192 (5000)
↓ -006	59	11.24	16.62	16.11	↓ -445
↓ -012	44	11.24	16.47	15.97	↓ -911
↓ -015	76	10.85	16.31	15.75	↓ -13914
300473-001	60	11.05	17.19	16.20	
↓ -002	63	10.86	16.85	16.08	
↓ -003	25	11.28	17.14	16.45	
300482-001 B	80	11.05	18.04	17.26	
300487-001 ↓	14	11.04	16.91	16.43	
300508-001 A	5	11.35	17.64	17.28 ³	
↓ -002	12	11.29	17.52	16.94	
↓ -003	72	10.89	17.06	16.37	
SDUP ↓ -003 ↓	37	11.35	17.25	16.63	
300453-023 D	85	11.20	17.16	16.29	
↓ -024 D	38	11.06	17.59	16.58	
6-11-18					

	In	Out	In-2	Out-2
Date:	6-11-18	6-11-18		
Time:	0250	2231		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MN	MN		

MN 6-11-18
 Analyst Initials / Date

Reviewed Online / See LIMS

Percent Moisture Summary Report

Batch: 260352
 Date: 06/11/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
300453-001	11.37	16.81	15.98	85	15
300453-002	11.26	17.52	16.49	84	16
300453-003	11.36	18.38	17.25	84	16
300453-004	10.99	18.78	17.53	84	16
300453-005	11.05	18.38	17.26	85	15
300453-006	11.34	16.68	16.00	87	13
300453-007	11.18	17.26	16.40	86	14
300453-008	11.03	17.81	16.89	86	14
300453-009	10.89	17.34	16.22	83	17
300453-010	11.28	17.18	16.18	83	17
300453-011	11.35	17.63	16.53	82	18
300453-012	11.36	17.62	16.46	81	19
300453-015	11.28	18.34	17.21	84	16
300453-016	11.23	19.62	18.23	83	17
300453-017	11.02	16.53	15.67	84	16
300453-018	11.04	17.05	16.10	84	16
300453-019	11.13	17.09	16.15	84	16
300453-020	11.42	19.33	18.19	86	14
300453-021	10.89	16.96	16.05	85	15
300453-022	11.23	17.67	16.73	85	15
QC935299	11.31	16.96	16.13	85	15
of 300453-022			RPD:	0.1%	0.6%

17

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

77

LIMS Batch #: 260352
Date: 6-11-18

Page: 42
Benchbook#: BK 4277

Balance ID: B-13
calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
GLX	18	11.19	∅	11.19	
B 300453-001 D	30	11.37	16.81	15.98	
-002	89	11.26	17.52	16.49	
-003	86	11.36	18.38	17.25	
-004	3	10.99	18.78	17.53	
-005	62	11.05	18.38	17.26	
-006	39	11.37	16.68	16.00	
-007	75	11.18	17.26	16.40	
-008	73	11.03	17.81	16.89	
-009	42	10.81	17.34	16.22	
-010	43	11.28	17.18	16.18	
-011	56	11.35	17.63	16.53	
-012	94	11.36	17.62	16.46	
-015	68	11.28	18.34	17.21	
-016	4	11.23	19.62	18.23	
-017	49	11.02	16.53	15.67	
-018	64	11.04	17.05	16.10	
-019	13	11.13	17.09	16.15	
-020	77	11.42	19.33	18.19	
-021	33	10.89	16.96	16.05	
-022	83	11.23	17.67	16.73	
SDUP -022 ↓	93	11.31	16.96	16.13	

MV 6-11-18

	In	Out	In-2	Out-2
Date:	6-11-18	6-11-18		
Time:	0330	2231		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MV	MV		

new 6-11-18

MV 6-11-18

Analyst Initials / Date

Reviewed Online / See LIMS



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 301003 ANALYTICAL REPORT

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Avenue
Level : III

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01[3]	301003-001	DUP06252018-01	301003-013
BR11-1GW01[5]	301003-002	BR11-1SB011[3]	301003-014
BR11-1GW01[7]	301003-003	BR11-1SB011[5]	301003-015
BR11-1GW01[10]	301003-004	BR11-1SB011[7]	301003-016
BR11-1GW01[15]	301003-005	BR11-1SB011[10]	301003-017
BR11-1GW01[20]	301003-006	BR11-1SB011[15]	301003-018
BR11-1GW01[25]	301003-007	BR11-1SB011[20]	301003-019
BR11-1GW01[30]	301003-008	BR11-1SB011[25]	301003-020
BR11-1GW01[35]	301003-009	BR11-1SB011[30]	301003-021
BR11-1GW01[40]	301003-010	BR11-1SB011[35]	301003-022
BR11-1GW01[45]	301003-011	DUP06252018-02	301003-023
BR11-1GW01[49]	301003-012	TB06252018	301003-024

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Mike Dahlquist
Project Manager

mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

Date: 07/11/2018

CASE NARRATIVE

Laboratory number: 301003
Client: TRC Solutions
Project: 285830.02.01
Location: Riley Avenue
Request Date: 06/25/18
Samples Received: 06/25/18

This data package contains sample and QC results for twenty three soil samples and one water sample, requested for the above referenced project on 06/25/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B) Water:

Low recovery was observed for gasoline C7-C12 in the MS for batch 260868; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260868; this analyte was not detected in the sample at or above the RL.

TB06252018 (lab # 301003-024) was analyzed with more than 1 mL of headspace in the VOA vial.

No other analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:

High response was observed for gasoline C7-C12 in the CCV analyzed 06/29/18 06:03; affected data was qualified with "b".

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260960; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260992; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 261058; this analyte was not detected in the sample at or above the RL.

No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Moisture (ASTM D2216-98/CLP):

No analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY

Enthalpy Analytical LLC
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

C&T LOGIN # 301603

Project No: 285830.02.01
Project Name: Riley Avenue
EDD Format: TRC EQUIS Rpt Level: II III IV
Turnaround Time: RUSH Standard
Sampler: Kevin Li, Nate Berube
Report To: Alfonso Ang
Company: TRC Solutions
Telephone: 415-786-7830
Email: aang@trcsolutions.com

Lab No.	Sample ID	Date	Time	Matrix	# of Containers	Chemical Preservative	TPH-g, TPH-d (No SGC), TPH-mo. - 8015	Moisture
	BR11-1GW01[3]	6/25/18	9:13	X	4		X	X
	BR11-1GW01[5]		9:15	X	4		X	X
	BR11-1GW01[7]		9:35	X	4		X	X
	BR11-1GW01[10]		9:37	X	4		X	X
	BR11-1GW01[15]		9:48	X	4		X	X
	BR11-1GW01[20]		10:55	X	4		X	X
	BR11-1GW01[25]		11:02	X	4		X	X
	BR11-1GW01[30]		11:10	X	4		X	X
	BR11-1GW01[35]		11:20	X	4		X	X
	BR11-1GW01[40]		11:32	X	4		X	X
	BR11-1GW01[45]		11:44	X	4		X	X
	BR11-1GW01[50]		12:00	X	4		X	X
	BR11-1GW01[55]		11:10	X	4		X	X

Notes: Include Geotracker EDF
All results to be reported on a dry weight basis. No silica gel cleanup
Please email cc the following:
jhanzel-durbin@trcsolutions.com, kli@trcsolutions.com
mpatinkin@trcsolutions.com, nberube@trcsolutions.com
smilcan@trcsolutions.com

RELINQUISHED BY: _____
DATE/TIME: 6-25-18 1820

RECEIVED BY: _____
DATE/TIME: 6-25-18 1806

Enthalpy Analytical LLC
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900 Phone
 (510) 486-0532 Fax

CHAIN OF CUSTODY

C&T LOGIN # 361603

Project No: 285830.02.01
 Project Name: Riley Avenue
 EDD Format: TRC EQUIS Rpt Level: II III IV
 Turnaround Time: RUSH Standard
 Sampler: Kevin Li, Nate Berube
 Report To: Alfonso Ang
 Company: TRC Solutions
 Telephone: 415-786-7830
 Email: aang@trcsolutions.com

Analytical Request	
TPH-g, TPH-d (No SGC), TPH-mo. - 8015	X
Moisture	X
TPH-g + BTEX - EPA 8015 + 8021	X

Lab No.	Sample ID.	Sampling		Matrix		# of Containers	Chemical Preservative				
		Date	Time	Water	Soil		HCl	H ₂ SO ₄	HNO ₃	NaOH	MeOH
	BR11-1SB011[3]	6/25/18	12:50	X		4					X
	BR11-1SB011[5]		12:52	X		4					X
	BR11-1SB011[7]		13:10	X		4					X
	BR11-1SB011[10]		13:17	X		4					X
	BR11-1SB011[15]		13:20	X		4					X
	BR11-1SB011[20]		13:30	X		4					X
	BR11-1SB011[25]		13:45	X		4					X
	BR11-1SB011[30]		13:55	X		4					X
	BR11-1SB011[35]		14:05	X		4					X
	D4P06252018 - 02		13:55	X		4					X
	TR06252018-14										
	TR06252018	6/25/18	14:50	X		1					

Notes: Include Geotracker EDF
 All results to be reported on a dry weight basis. No silica gel cleanup
Please email cc the following:
 jhanzel-durbin@trcsolutions.com, kli@trcsolutions.com
 mpatinkin@trcsolutions.com, nberube@trcsolutions.com
 smilcan@trcsolutions.com

RECEIVED BY: _____ DATE/TIME: 6-25-18 1606
 RELINQUISHED BY: _____ DATE/TIME: 6-25-18 1820

14

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 301003
 Date Received: 6-25-18

Client: TRC
 Project: Riley Avenue

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # A, or B

Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 6-25-18 By (print) TKY (sign) TKY

Shipping info (if applicable) _____

Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package

Date: _____ How many _____ Signature, Initials, None

Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important : Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

Samples received on ice directly from the field. Cooling process had begun

Type of ice used : Wet, Blue/Gel, None Temperature blank(s) included? Yes, No

Temperature measured using Thermometer ID: _____, or IR Gun # A B

Cooler Temp (°C): #1: 4.7, #2: 5.4, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?	<input checked="" type="checkbox"/>		
If YES, what time were they transferred to freezer? <u>16:35</u>			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?			<input checked="" type="checkbox"/>
Did you change the hold time in LIMS for preserved terracores?	<input checked="" type="checkbox"/>		
Are bubbles > 6mm absent in VOA samples?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			<input checked="" type="checkbox"/>
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

H2SO4 lot# _____ added to samples _____ on/at _____

HCL lot# _____ added to samples _____ on/at _____

HNO3 lot# _____ added to samples _____ on/at _____

NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample 24 - 1/1 VOAs arrived containing bubbles

Date Logged in 6-26-18

By (print) TKY (sign) TKY

Date Labeled 6-26-18

By (print) TKY (sign) TKY

Detections Summary for 301003

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions
 Project : 285830.02.01
 Location : Riley Avenue

Client Sample ID : BR11-1GW01[3] Laboratory Sample ID : 301003-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.031	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.99	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	5.0	J,Z	5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	16		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1GW01[5] Laboratory Sample ID : 301003-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.029	J	0.18	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.50	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	16		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1GW01[7] Laboratory Sample ID : 301003-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.022	J	0.18	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.45	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	15		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1GW01[10] Laboratory Sample ID : 301003-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.020	J	0.18	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.56	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	15		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1GW01[15] Laboratory Sample ID : 301003-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.015	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.51	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	15		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1GW01[20]

Laboratory Sample ID : 301003-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.043	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.65	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	1.9	J,Z	5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	14		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1GW01[25]

Laboratory Sample ID : 301003-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.030	J	0.20	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	5.4	Y,Z	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	17		6.1	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	18		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1GW01[30]

Laboratory Sample ID : 301003-008

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.025	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.92	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	2.7	J	6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	17		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1GW01[35]

Laboratory Sample ID : 301003-009

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.034	J	0.22	0.014	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.65	J,Y	1.1	0.33	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	9		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1GW01[40]

Laboratory Sample ID : 301003-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.027	J	0.20	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.0	J,Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	13		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1GW01[45]

Laboratory Sample ID : 301003-011

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.028	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.58	J,Y	1.1	0.33	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	2.7	J	5.4	1.6	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	8		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1GW01[49]

Laboratory Sample ID : 301003-012

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.021	J	0.20	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.60	J,Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	11		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : DUP06252018-01

Laboratory Sample ID : 301003-013

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.047	J	0.20	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.2	Y,Z	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	3.5	J	5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	16		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB011[3]

Laboratory Sample ID : 301003-014

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.029	J	0.22	0.014	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.3	Y,Z	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	8.1		6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	16		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB011[5]

Laboratory Sample ID : 301003-015

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.020	J	0.18	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.3	Y,Z	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	4.2	J	6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	16		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB011[7]

Laboratory Sample ID : 301003-016

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.034	J	0.18	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.64	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	16		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB011[10]

Laboratory Sample ID : 301003-017

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.029	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	4.1	Y,Z	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	15		5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	13		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB011[15]

Laboratory Sample ID : 301003-018

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.018	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.0	Y,Z	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	5.8	J	5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	15		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB011[20]

Laboratory Sample ID : 301003-019

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.065	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	5.8	Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	31		5.8	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	13		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB011[25]

Laboratory Sample ID : 301003-020

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.030	J	0.22	0.014	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.1	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	5.1	J	6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	17		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB011[30]

Laboratory Sample ID : 301003-021

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.029	J	0.20	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.78	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	1.9	J	6.1	1.9	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	18		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : BR11-1SB011[35]

Laboratory Sample ID : 301003-022

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.018	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.51	J,Y	1.1	0.32	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	6		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : DUP06252018-02

Laboratory Sample ID : 301003-023

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.11	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.42	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Moisture, Percent	14		1		%	As Recd	1.000	ASTM D2216-98/CLP	METHOD

Client Sample ID : TB06252018

Laboratory Sample ID :

301003-024

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	16	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Ethylbenzene	0.21	C,J	0.50	0.10	ug/L	As Recd	1.000	EPA 8021B	EPA 5030B
m,p-Xylenes	0.29	J	0.50	0.13	ug/L	As Recd	1.000	EPA 8021B	EPA 5030B
o-Xylene	0.27	C,J	0.50	0.14	ug/L	As Recd	1.000	EPA 8021B	EPA 5030B

C = Presence confirmed, but RPD between columns exceeds 40%

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Z = Sample exhibits unknown single peak or peaks

Laboratory Job Number 301003

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Water

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01		
Field ID:	TB06252018	Batch#:	260868
Matrix:	Water	Sampled:	06/25/18
Units:	ug/L	Received:	06/25/18
Diln Fac:	1.000	Analyzed:	06/26/18

Type: SAMPLE Lab ID: 301003-024

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	16 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.11	EPA 8021B
Ethylbenzene	0.21 C J	0.50	0.10	EPA 8021B
m,p-Xylenes	0.29 J	0.50	0.13	EPA 8021B
o-Xylene	0.27 C J	0.50	0.14	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	91	79-120	EPA 8015B
Bromofluorobenzene (PID)	92	71-127	EPA 8021B

Type: BLANK Lab ID: QC937394

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	23 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.11	EPA 8021B
Ethylbenzene	ND	0.50	0.10	EPA 8021B
m,p-Xylenes	ND	0.50	0.14	EPA 8021B
o-Xylene	ND	0.50	0.11	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	92	79-120	EPA 8015B
Bromofluorobenzene (PID)	93	71-127	EPA 8021B

C= Presence confirmed, but RPD between columns exceeds 40%
 J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC937389	Batch#:	260868
Matrix:	Water	Analyzed:	06/26/18
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,081	108	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	79-120

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8021B
Matrix:	Water	Batch#:	260868
Units:	ug/L	Analyzed:	06/26/18
Diln Fac:	1.000		

Type: BS Lab ID: QC937390

Analyte	Spiked	Result	%REC	Limits
Benzene	10.00	10.56	106	80-120
Toluene	10.00	10.48	105	80-120
Ethylbenzene	10.00	10.63	106	79-120
m,p-Xylenes	10.00	10.54	105	79-120
o-Xylene	10.00	10.01	100	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	91	71-127

Type: BSD Lab ID: QC937391

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	10.00	10.18	102	80-120	4	20
Toluene	10.00	10.12	101	80-120	4	20
Ethylbenzene	10.00	10.34	103	79-120	3	20
m,p-Xylenes	10.00	10.29	103	79-120	2	20
o-Xylene	10.00	9.895	99	80-120	1	20

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	93	71-127

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	260868
MSS Lab ID:	301057-002	Sampled:	06/26/18
Matrix:	Water	Received:	06/26/18
Units:	ug/L	Analyzed:	06/27/18
Diln Fac:	1.000		

Type: MS Lab ID: QC937392

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,785	2,000	4,364	79 *	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	79-120

Type: MSD Lab ID: QC937393

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	4,459	84	80-120	2	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	79-120

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	260868
MSS Lab ID:	301057-004	Sampled:	06/26/18
Matrix:	Water	Received:	06/26/18
Units:	ug/L	Analyzed:	06/27/18
Diln Fac:	1.000		

Type: MS Lab ID: QC937415

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	146.0	2,000	1,956	90	80-120

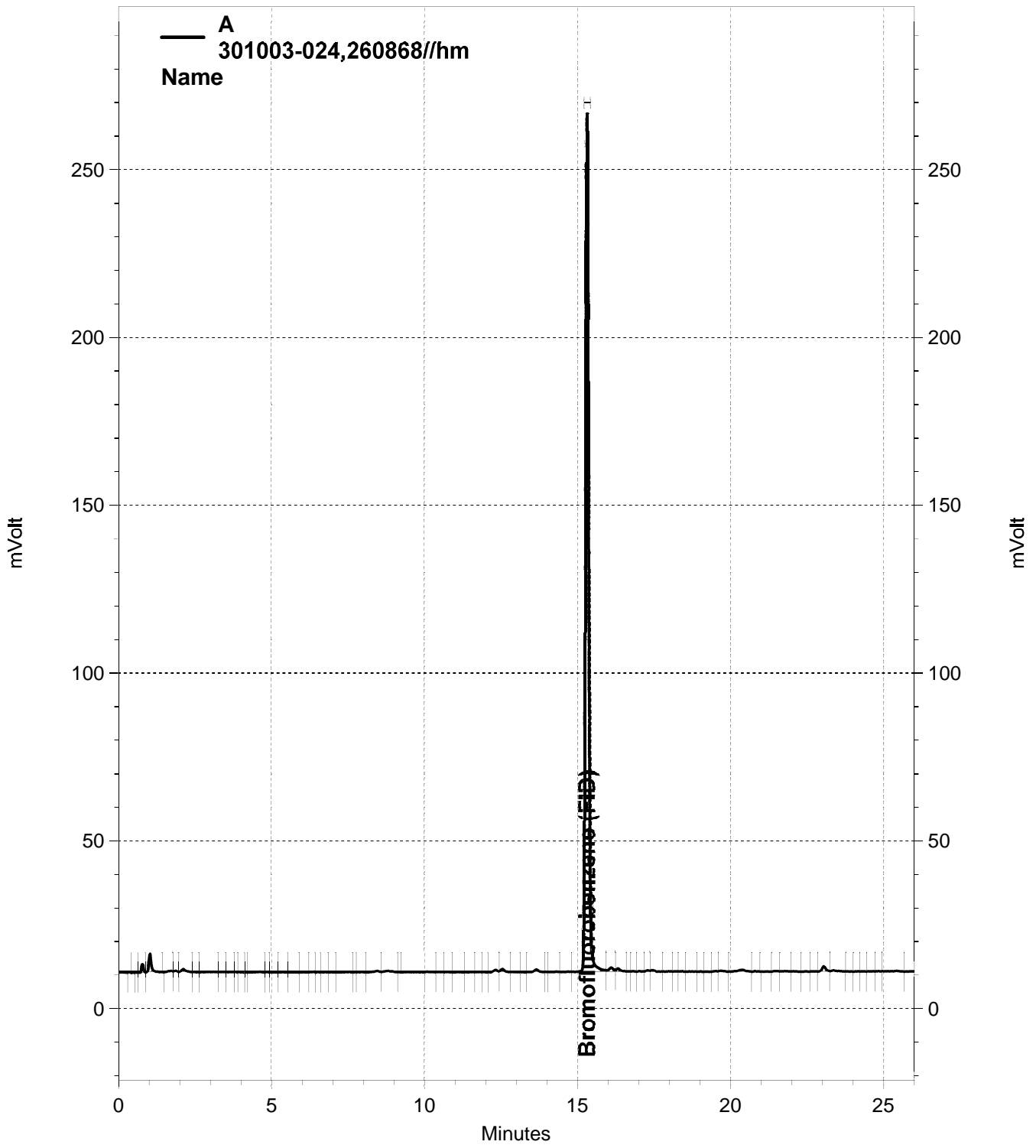
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	79-120

Type: MSD Lab ID: QC937416

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,922	89	80-120	2	20

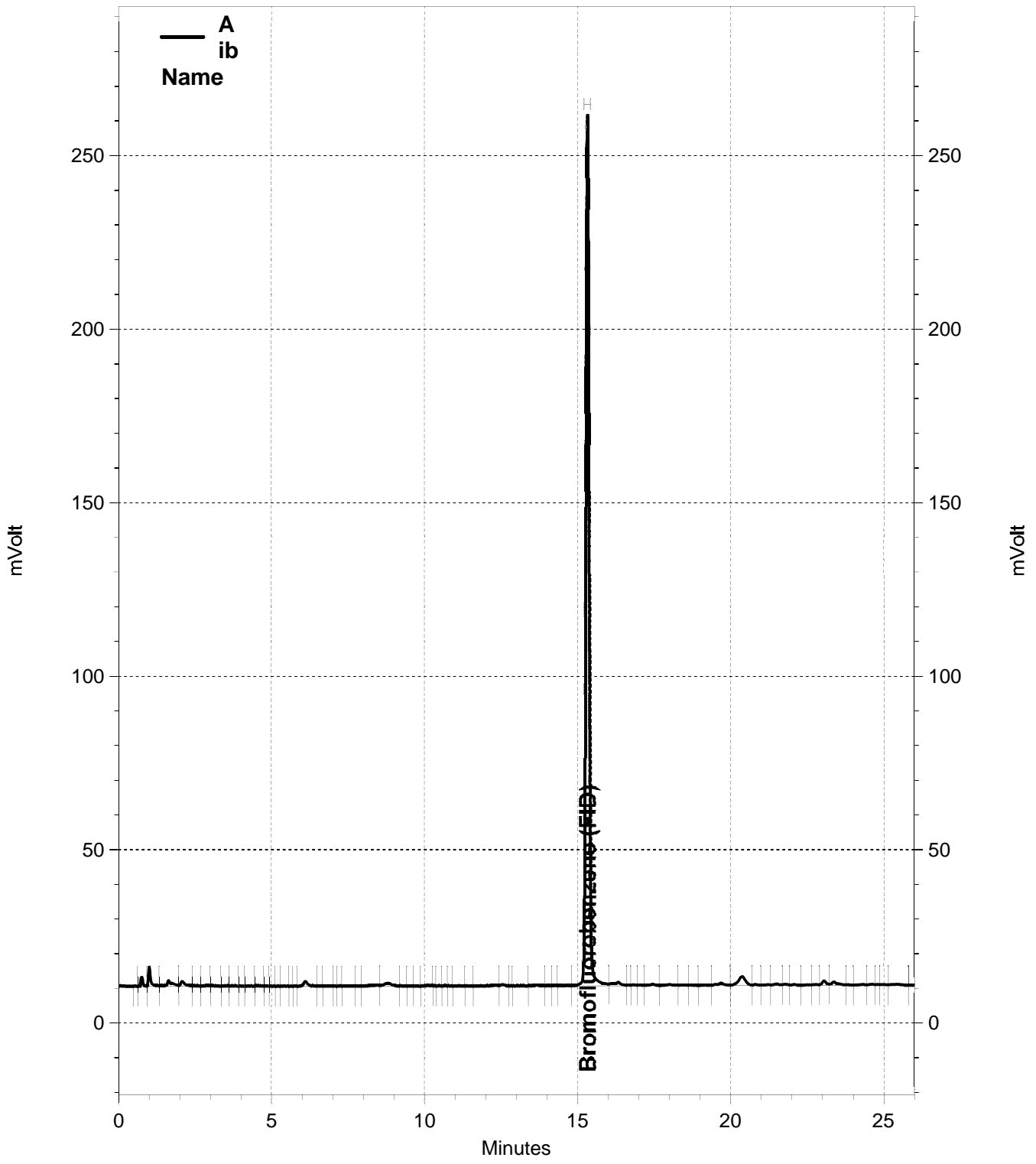
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	79-120

RPD= Relative Percent Difference

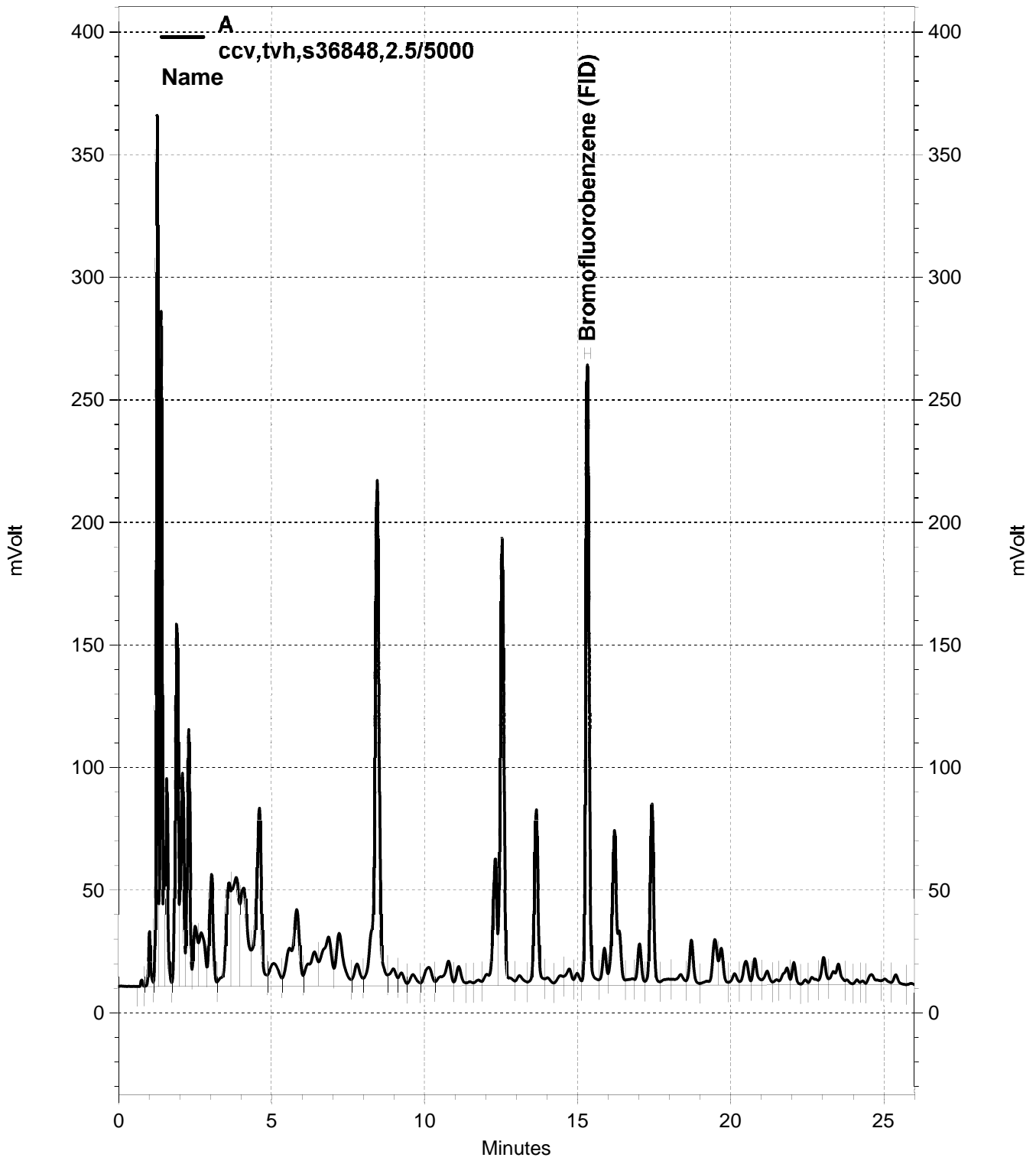


A
301003-024,260868//hm
Name

\\Lims\gdrive\ezchrom\Projects\GC07\Data\177-016, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\177-006, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\177-001, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 301003 GCVOA Water: EPA 8021B

Inst : GC07
 Calnum : 328176634001
 Units : ng

Name : MBTXE_122
 Date : 02-MAY-2018 22:56
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_012	328176634012	BTXE_1	02-MAY-2018 22:56	S35889 (1000X), S36233 (5000X)
L2	122_013	328176634013	MBTXE_2	02-MAY-2018 23:34	S36294 (1250X), S36233 (5000X)
L3	122_014	328176634014	MBTXE_3	03-MAY-2018 00:12	S36294 (500X), S36233 (5000X)
L4	122_015	328176634015	MBTXE_4	03-MAY-2018 00:50	S36294 (125X), S36233 (5000X)
L5	122_016	328176634016	MBTXE_5	03-MAY-2018 01:28	S35887 (1000X), S36233 (5000X)
L6	122_017	328176634017	MBTXE_6	03-MAY-2018 02:07	S35887 (500X), S36233 (5000X)
L7	122_018	328176634018	MBTXE_7	03-MAY-2018 02:45	S35887 (250X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2	%RSD	MnR^2	MxRSD	Flg
Benzene	B	32661	28967	33865	33045	35530	36077	35842	AVRG		2.97E-5		33713	7	0.995	20		
Toluene	B	35850	27715	30543	29993	32299	32713	32236	AVRG		3.16E-5		31621	8	0.995	20		
Ethylbenzene	B	33834	24137	26923	25828	27555	27919	26928	AVRG		3.62E-5		27589	11	0.995	20		
m,p-Xylenes	B	45518	30761	32393	32140	33095	33659	33242	AVRG		2.91E-5		34401	15	0.995	20		
o-Xylene	B	31247	24358	27258	27337	28898	29291	28661	AVRG		3.55E-5		28150	8	0.995	20		
Bromofluorobenzene (PID)	B	25488	25061	24534	24811	25891	26143	26329	AVRG		3.93E-5		25465	3	0.995	20		
Benzene	C	1703.2	1706.2	2146.8	2247.1	2460.9	2462.7	2389.3	AVRG		4.63E-4		2159.5	15	0.995	20		
Toluene	C	1753.6	1588.0	1890.6	2016.8	2223.6	2231.7	2170.5	AVRG		5.05E-4		1982.1	13	0.995	20		
Ethylbenzene	C	1289.2	1252.0	1570.5	1706.8	1871.4	1900.9	1843.8	AVRG		6.12E-4		1633.5	17	0.995	20		
m,p-Xylenes	C	2560.8	1850.1	2117.0	2173.8	2306.7	2311.8	2234.5	AVRG		4.50E-4		2222.1	10	0.995	20		
o-Xylene	C	2204.0	1604.0	1849.9	1872.5	1984.5	1988.5	1930.9	AVRG		5.21E-4		1919.2	9	0.995	20		
Bromofluorobenzene (PID)	C	1775.8	1741.0	1701.0	1707.9	1749.9	1734.9	1719.7	AVRG		5.77E-4		1732.9	1	0.995	20		

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Benzene	B	2.5000	-3	10.000	-14	25.000	0	100.00	-2	500.00	5	1000.0	7	2000.0	6
Toluene	B	2.5000	13	10.000	-12	25.000	-3	100.00	-5	500.00	2	1000.0	3	2000.0	2
Ethylbenzene	B	2.5000	23	10.000	-13	25.000	-2	100.00	-6	500.00	0	1000.0	1	2000.0	-2
m,p-Xylenes	B	2.5000	32	10.000	-11	25.000	-6	100.00	-7	500.00	-4	1000.0	-2	2000.0	-3
o-Xylene	B	2.5000	11	10.000	-13	25.000	-3	100.00	-3	500.00	3	1000.0	4	2000.0	2
Bromofluorobenzene (PID)	B	900.00	0	900.00	-2	900.00	-4	900.00	-3	900.00	2	900.00	3	900.00	3
Benzene	C	2.5000	-21	10.000	-21	25.000	-1	100.00	4	500.00	14	1000.0	14	2000.0	11
Toluene	C	2.5000	-12	10.000	-20	25.000	-5	100.00	2	500.00	12	1000.0	13	2000.0	10
Ethylbenzene	C	2.5000	-21	10.000	-23	25.000	-4	100.00	4	500.00	15	1000.0	16	2000.0	13
m,p-Xylenes	C	2.5000	15	10.000	-17	25.000	-5	100.00	-2	500.00	4	1000.0	4	2000.0	1
o-Xylene	C	2.5000	15	10.000	-16	25.000	-4	100.00	-2	500.00	3	1000.0	4	2000.0	1
Bromofluorobenzene (PID)	C	900.00	2	900.00	0	900.00	-2	900.00	-1	900.00	1	900.00	0	900.00	-1

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301003 GCVOA Water
EPA 8021B

Inst : GC07
Calnum : 328176634001

Name : MBTXE_122
Cal Date : 02-MAY-2018

ICV 328176634020 (122_020 03-MAY-2018) stds: S36861 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	100.0	95.41	ng	-5	15	
Toluene	B	100.0	92.97	ng	-7	15	
Ethylbenzene	B	100.0	92.82	ng	-7	15	
m,p-Xylenes	B	200.0	181.8	ng	-9	15	
o-Xylene	B	100.0	98.35	ng	-2	15	
Benzene	C	100.0	104.6	ng	5	15	
Toluene	C	100.0	102.9	ng	3	15	
Ethylbenzene	C	100.0	108.3	ng	8	15	
m,p-Xylenes	C	200.0	196.8	ng	-2	15	
o-Xylene	C	100.0	101.6	ng	2	15	

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

ENTHALPY INITIAL CALIBRATION FOR 301003 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 328184879001
 Units : ng

Name : TVH_129
 Date : 08-MAY-2018 21:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	128_017	328184879017	TVH_14	08-MAY-2018 21:46	S36893 (1000X), S36233 (5000X)
L2	128_018	328184879018	TVH_15	08-MAY-2018 22:25	S36892 (1000X), S36233 (5000X)
L3	128_019	328184879019	TVH_16	08-MAY-2018 23:03	S36891 (1000X), S36233 (5000X)
L4	128_020	328184879020	TVH_17	08-MAY-2018 23:42	S36890 (2000X), S36233 (5000X)
L5	128_021	328184879021	TVH_18	09-MAY-2018 00:20	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	2551.5	2151.4	1868.7	2079.4	2113.6	AVRG		4.64E-4		2152.9	12	0.995	20	
Bromofluorobenzene (FID)	A	2209.5	2170.3	2197.1	2287.3	2435.2	AVRG		4.43E-4		2259.9	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	19	2500.0	0	10000	-13	25000	-3	50000	-2
Bromofluorobenzene (FID)	A	900.00	-2	900.00	-4	900.00	-3	900.00	1	900.00	8

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301003 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 328184879001

Name : TVH_129
Cal Date : 08-MAY-2018

ICV 328184879024 (128_024 09-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8973	ng	-10	15	

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

ENTHALPY SPIKE USER REPORT FOR 301003 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : QC937390 IDF : 1.0
 Seqnum : 328255465002.3 File : 177_002 Time : 26-JUN-2018 10:23
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	C	2159.5	2281.4	50.00	52.82	ng	6	15	u
Benzene	B	33713	37170	50.00	55.13	ng	10	15	
Toluene	C	1982.1	2077.8	50.00	52.41	ng	5	15	u
Toluene	B	31621	34384	50.00	54.37	ng	9	15	
Ethylbenzene	C	1633.5	1737.2	50.00	53.17	ng	6	15	u
Ethylbenzene	B	27589	28646	50.00	51.92	ng	4	15	
m,p-Xylenes	C	2222.1	2341.1	50.00	52.68	ng	5	15	u
m,p-Xylenes	B	34401	37980	50.00	55.20	ng	10	15	
o-Xylene	C	1919.2	1921.6	50.00	50.06	ng	0	15	u
o-Xylene	B	28150	30737	50.00	54.60	ng	9	15	
Bromofluorobenzene (PID)	C	1732.9	1579.1	900.0	820.2	ng	-9	15	u
Bromofluorobenzene (PID)	B	25465	24391	900.0	862.0	ng	-4	15	

Analyst: JM2 Date: 06/27/18 Reviewer: TKM Date: 06/27/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328255465013 File : 177_013 Time : 26-JUN-2018 18:52
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2174.3	10000	10100	ng	1	15	
Bromofluorobenzene (FID)	A	2259.9	2145.8	900.0	854.6	ng	-5	15	

Analyst: JM2 Date: 06/26/18 Reviewer: TKM Date: 06/27/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328255465015 File : 177_015 Time : 26-JUN-2018 20:08
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	B	33713	38504	100.0	114.2	ng	14	15	
Toluene	B	31621	34798	100.0	110.0	ng	10	15	
Ethylbenzene	B	27589	29097	100.0	105.5	ng	5	15	
m,p-Xylenes	B	34401	37096	100.0	107.8	ng	8	15	
o-Xylene	B	28150	31792	100.0	112.9	ng	13	15	
Bromofluorobenzene (PID)	B	25465	25409	900.0	898.0	ng	0	15	
Benzene	C	2159.5	2373.1	100.0	109.9	ng	10	15	
Toluene	C	1982.1	2112.3	100.0	106.6	ng	7	15	
Ethylbenzene	C	1633.5	1765.1	100.0	108.1	ng	8	15	
m,p-Xylenes	C	2222.1	2262.7	100.0	101.8	ng	2	15	
o-Xylene	C	1919.2	1950.2	100.0	101.6	ng	2	15	
Bromofluorobenzene (PID)	C	1732.9	1602.5	900.0	832.3	ng	-8	15	

Analyst: CJN Date: 06/27/18 Reviewer: TKM Date: 06/27/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328255465026 File : 177_026 Time : 27-JUN-2018 03:09
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	1968.5	15000	13720	ng	-9	15	
Bromofluorobenzene (FID)	A	2259.9	2149.4	900.0	856.0	ng	-5	15	

Analyst: CJN Date: 06/27/18 Reviewer: TKM Date: 06/27/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328255465028 File : 177_028 Time : 27-JUN-2018 04:26
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	B	33713	33640	150.0	149.7	ng	0	15	
Toluene	B	31621	30403	150.0	144.2	ng	-4	15	
Ethylbenzene	B	27589	25569	150.0	139.0	ng	-7	15	
m,p-Xylenes	B	34401	31716	150.0	138.3	ng	-8	15	
o-Xylene	B	28150	27279	150.0	145.4	ng	-3	15	
Bromofluorobenzene (PID)	B	25465	21700	900.0	766.9	ng	-15	15	
Benzene	C	2159.5	2159.7	150.0	150.0	ng	0	15	
Toluene	C	1982.1	1929.1	150.0	146.0	ng	-3	15	
Ethylbenzene	C	1633.5	1593.3	150.0	146.3	ng	-2	15	
m,p-Xylenes	C	2222.1	2014.0	150.0	136.0	ng	-9	15	
o-Xylene	C	1919.2	1727.5	150.0	135.0	ng	-10	15	
Bromofluorobenzene (PID)	C	1732.9	1393.7	900.0	723.8	ng	-20	15	c-

CJN 06/27/18 [Bromofluorobenzene (PID) C]: Passes control limits.

Analyst: CJN Date: 06/27/18 Reviewer: TKM Date: 06/27/18

--low bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328255465039 File : 177_039 Time : 27-JUN-2018 11:26
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2006.1	10000	9318	ng	-7	15	
Bromofluorobenzene (FID)	A	2259.9	2118.0	900.0	843.5	ng	-6	15	

Analyst: JM2 Date: 06/27/18 Reviewer: TKM Date: 06/27/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328176634

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/02/18 15:54
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std	Used
001	122_001	IB	CALIB			05/02/18 15:54	1.0	1	
002	122_002	ICAL	TVH_14			05/02/18 16:33	1.0	2	1
003	122_003	ICAL	TVH_15			05/02/18 17:11	1.0	3	1
004	122_004	ICAL	TVH_16			05/02/18 17:49	1.0	4	1
005	122_005	ICAL	TVH_17			05/02/18 18:28	1.0	5	1
006	122_006	ICAL	TVH_18			05/02/18 19:06	1.0	5	1
007	122_007	IB				05/02/18 19:44	1.0	1	
008	122_008	ICV	TVH			05/02/18 20:23	1.0	6	1
009	122_009	X	ICV			05/02/18 21:00	1.0	6	1
010	122_010	CMARKER				05/02/18 21:39	1.0	7	1
011	122_011	IB	CALIB			05/02/18 22:17	1.0	1	
012	122_012	ICAL	BTXE_1			05/02/18 22:56	1.0	8	1
013	122_013	ICAL	MBTXE_2			05/02/18 23:34	1.0	9	1
014	122_014	ICAL	MBTXE_3			05/03/18 00:12	1.0	9	1
015	122_015	ICAL	MBTXE_4			05/03/18 00:50	1.0	9	1
016	122_016	ICAL	MBTXE_5			05/03/18 01:28	1.0	10	1
017	122_017	ICAL	MBTXE_6			05/03/18 02:07	1.0	10	1
018	122_018	ICAL	MBTXE_7			05/03/18 02:45	1.0	10	1
019	122_019	IB				05/03/18 03:23	1.0	1	
020	122_020	ICV	MBTXE			05/03/18 04:01	1.0	11	1
021	122_021	X	ICV			05/03/18 04:40	1.0	11	1

PAW 05/04/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 21.

Reviewed by: PAW Date: 05/04/18

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S35319 8=S35889 9=S36294 10=S35887 11=S36861

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328184879

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/08/18 09:19
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	128_001	X	CMARKER			05/08/18 09:19	1.0	1 2	
002	128_002	CCV	TVH			05/08/18 09:58	1.0	3 2	
003	128_003	CCV/LCS	QC931207	Water	259308	05/08/18 10:36	1.0	4 2	
004	128_004	CCV	TVH			05/08/18 11:15	1.0	3 2	
005	128_005	CCV	BTXE			05/08/18 11:53	1.0	4 2	
006	128_006	BLANK	QC931206	Water	259308	05/08/18 12:31	1.0	2	
007	128_007	MSS	299300-001	Water	259308	05/08/18 15:18	1.0	2	headspace > 1 mL
008	128_008	CCV	BTXE			05/08/18 15:57	1.0	4 2	
011	128_011	IB				05/08/18 17:57	1.0	2	
012	128_012	IB				05/08/18 18:35	1.0	2	
013	128_013	IB				05/08/18 19:13	1.0	2	
014	128_014	IB				05/08/18 19:51	1.0	2	
015	128_015	IB				05/08/18 20:30	1.0	2	
016	128_016	IB	CALIB			05/08/18 21:08	1.0	2	
017	128_017	ICAL	TVH_14			05/08/18 21:46	1.0	5 2	
018	128_018	ICAL	TVH_15			05/08/18 22:25	1.0	6 2	
019	128_019	ICAL	TVH_16			05/08/18 23:03	1.0	7 2	
020	128_020	ICAL	TVH_17			05/08/18 23:42	1.0	8 2	
021	128_021	ICAL	TVH_18			05/09/18 00:20	1.0	8 2	
022	128_022	IB				05/09/18 00:58	1.0	2	
023	128_023	X	ICV			05/09/18 01:37	1.0	9 2	
024	128_024	ICV	TVH			05/09/18 02:15	1.0	9 2	
025	128_025	CMARKER				05/09/18 02:54	1.0	1 2	

Reviewed by: EAH Date: 06/19/18

Standards used: 1=S35319 2=S36233 3=S36103 4=S36185 5=S36893 6=S36892 7=S36891 8=S36890 9=S36894

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328255465

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 06/26/18 09:45
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	177_001	CCV/LCS	QC937399	Soil	260870	06/26/18 09:45	1.0	1 2	
002	177_002	CCV/BS	QC937390	Water	260868	06/26/18 10:23	1.0	3 2	
003	177_003	LCS	QC937389	Water	260868	06/26/18 11:01	1.0	1 2	
004	177_004	BSD	QC937391	Water	260868	06/26/18 11:39	1.0	3 2	
005	177_005	BLANK	QC937400	Soil	260870	06/26/18 12:17	1.0	2	
006	177_006	BLANK	QC937394	Water	260868	06/26/18 13:52	1.0	2	
007	177_007	SAMPLE	300996-006	Soil	260870	06/26/18 15:02	1.0	2	
008	177_008	SAMPLE	300996-007	Soil	260870	06/26/18 15:41	1.0	2	
009	177_009	SAMPLE	300996-008	Soil	260870	06/26/18 16:19	1.0	2	
010	177_010	SAMPLE	300996-009	Soil	260870	06/26/18 16:57	1.0	2	
011	177_011	SAMPLE	300996-010	Soil	260870	06/26/18 17:35	1.0	2	
012	177_012	SAMPLE	300996-011	Soil	260870	06/26/18 18:13	1.0	2	
013	177_013	CCV	TVH			06/26/18 18:52	1.0	1 2	
014	177_014	X	CMARKER			06/26/18 19:30	1.0	4 2	
015	177_015	CCV	BTXE			06/26/18 20:08	1.0	3 2	
016	177_016	SAMPLE	301003-024	Water	260868	06/26/18 20:47	1.0	2	headspace > 1 mL
017	177_017	SAMPLE	300996-012	Soil	260870	06/26/18 21:24	1.0	2	
018	177_018	SAMPLE	300996-013	Soil	260870	06/26/18 22:03	1.0	2	
019	177_019	SAMPLE	300996-014	Soil	260870	06/26/18 22:41	1.0	2	
020	177_020	SAMPLE	300996-015	Soil	260870	06/26/18 23:19	1.0	2	
021	177_021	MSS	300996-017	Soil	260870	06/26/18 23:58	1.0	2	
022	177_022	SAMPLE	301058-001	Water	260868	06/27/18 00:36	1.0	2	
023	177_023	SAMPLE	301046-001	Soil	260870	06/27/18 01:14	1.0	2	
024	177_024	MS	QC937401	Soil	260870	06/27/18 01:52	1.0	1 2	
025	177_025	MSD	QC937402	Soil	260870	06/27/18 02:30	1.0	1 2	
026	177_026	CCV	TVH			06/27/18 03:09	1.0	1 2	
027	177_027	X	CMARKER			06/27/18 03:47	1.0	4 2	
028	177_028	CCV	BTXE			06/27/18 04:26	1.0	3 2	
029	177_029	SAMPLE	301046-002	Soil	260870	06/27/18 05:04	1.0	2	
030	177_030	SAMPLE	301046-003	Soil	260870	06/27/18 05:42	1.0	2	
031	177_031	MSS	301057-002	Water	260868	06/27/18 06:20	1.0	2	
032	177_032	SAMPLE	301057-003	Water	260868	06/27/18 06:58	1.0	2	headspace <= 1 mL
033	177_033	MSS	301057-004	Water	260868	06/27/18 07:37	1.0	2	
034	177_034	SAMPLE	301057-005	Water	260868	06/27/18 08:15	1.0	2	
035	177_035	MS	QC937392	Water	260868	06/27/18 08:53	1.0	1 2	
036	177_036	MSD	QC937393	Water	260868	06/27/18 09:32	1.0	1 2	
037	177_037	MS	QC937415	Water	260868	06/27/18 10:10	1.0	1 2	
038	177_038	MSD	QC937416	Water	260868	06/27/18 10:48	1.0	1 2	
039	177_039	CCV	TVH			06/27/18 11:26	1.0	1 2	
040	177_040	X	CMARKER			06/27/18 12:05	1.0	4 2	

JM2 06/26/18 : Sharing CMarker with previous sequence, 12 hour window intact.

JM2 06/27/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

Reviewed by: JM2 Date: 06/27/18

Standards used: 1=S36848 2=S37192 3=S36185 4=S35319

TITLE PROJECT DATE

Continued from page						
Sample	ID	Weight(g)		Wt/Std	Comments: Initials	Est. %
JM2 6/25 300950-2 MS	E	35.34	30.816 - 0.47 = 4.05	Yes	JM2 6/25/18	B-6
↓ -2 MSD	F	38.43	31.650 - 0.47 = 6.31	Yes	JM2 6/25/18	B-6
5 300950-2 MS	G	38.37	31.302 - 0.47 = 6.60	↓		
300965-1	A		1.09	No		
300939-9	B		1.04			
↓ -10	L		0.97			
300939-6	E	MuOH	200/5000	No	JM2 6/26/18	B-6
10 ↓ -9	B	↓	10/5000			
↓ -11	C	37.58	30.397 - 0.2 = 6.98			
300921-11	L	34.72	30.410 - 0.2 = 4.11			
↓ -12	L	36.11	30.779 - 0.2 = 5.13			
300950-2	H	37.64	30.925 - 0.47 = 6.25			
15 300932-1	C	35.53	30.254 - 0.2 = 5.08			
↓ -2	L	35.50	29.977 - 0.2 = 5.32			
300996-1	A		0.91			
↓ -2			0.96			
↓ -3			0.98			
20 ↓ -4			0.92			
↓ -5			0.92			
↓ -6			1.09			
↓ -7			0.93			
↓ -8			1.03			
25 ↓ -9			0.91			
↓ -10			0.92			
↓ -11			0.92			
↓ -12			0.94			
↓ -13			1.07			
30 ↓ -14			0.95			
↓ -15			1.00			
↓ -16			0.90			
↓ -17			1.03			
35 300996-17 MS	A		0.91			
↓ -17 MSD	L		0.93			
301046-1	A		0.97			
↓ -2			0.96			
↓ -3			0.94			
40						
45						

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

REPORTING SUMMARY FOR 301003 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
301003-024	Gasoline C7-C12	GC07	A	06/26/18 20:47
301003-024	Benzene	GC07	C	06/26/18 20:47
301003-024	Toluene	GC07	C	06/26/18 20:47
301003-024	Ethylbenzene	GC07	B	06/26/18 20:47
301003-024	m,p-Xylenes	GC07	B	06/26/18 20:47
301003-024	o-Xylene	GC07	B	06/26/18 20:47
301003-024	Bromofluorobenzene (FID)	GC07	A	06/26/18 20:47
301003-024	Bromofluorobenzene (PID)	GC07	C	06/26/18 20:47
QC937394	Gasoline C7-C12	GC07	A	06/26/18 13:52
QC937394	Benzene	GC07	C	06/26/18 13:52
QC937394	Toluene	GC07	C	06/26/18 13:52
QC937394	Ethylbenzene	GC07	C	06/26/18 13:52
QC937394	m,p-Xylenes	GC07	C	06/26/18 13:52
QC937394	o-Xylene	GC07	C	06/26/18 13:52
QC937394	Bromofluorobenzene (FID)	GC07	A	06/26/18 13:52
QC937394	Bromofluorobenzene (PID)	GC07	C	06/26/18 13:52
QC937389	Gasoline C7-C12	GC07	A	06/26/18 11:01
QC937389	Bromofluorobenzene (FID)	GC07	A	06/26/18 11:01
QC937390	Benzene	GC07	C	06/26/18 10:23
QC937390	Toluene	GC07	C	06/26/18 10:23
QC937390	Ethylbenzene	GC07	C	06/26/18 10:23
QC937390	m,p-Xylenes	GC07	C	06/26/18 10:23
QC937390	o-Xylene	GC07	C	06/26/18 10:23
QC937390	Bromofluorobenzene (PID)	GC07	C	06/26/18 10:23
QC937391	Benzene	GC07	C	06/26/18 11:39
QC937391	Toluene	GC07	C	06/26/18 11:39
QC937391	Ethylbenzene	GC07	C	06/26/18 11:39
QC937391	m,p-Xylenes	GC07	C	06/26/18 11:39
QC937391	o-Xylene	GC07	C	06/26/18 11:39
QC937391	Bromofluorobenzene (PID)	GC07	C	06/26/18 11:39
QC937392	Gasoline C7-C12	GC07	A	06/27/18 08:53
QC937392	Bromofluorobenzene (FID)	GC07	A	06/27/18 08:53
QC937393	Gasoline C7-C12	GC07	A	06/27/18 09:32
QC937393	Bromofluorobenzene (FID)	GC07	A	06/27/18 09:32
QC937415	Gasoline C7-C12	GC07	A	06/27/18 10:10
QC937415	Bromofluorobenzene (FID)	GC07	A	06/27/18 10:10
QC937416	Gasoline C7-C12	GC07	A	06/27/18 10:48
QC937416	Bromofluorobenzene (FID)	GC07	A	06/27/18 10:48

Laboratory Job Number 301003

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Soil

Gasoline by GC/FID (5035 Prep)			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/25/18
Basis:	dry	Received:	06/25/18

Field ID: BR11-1GW01[3] Moisture: 16%
 Type: SAMPLE Batch#: 260992
 Lab ID: 301003-001 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.031 J	0.19	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	121	64-134

Field ID: BR11-1GW01[5] Moisture: 16%
 Type: SAMPLE Batch#: 260960
 Lab ID: 301003-002 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.029 J	0.18	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	64-134

Field ID: BR11-1GW01[7] Moisture: 15%
 Type: SAMPLE Batch#: 260960
 Lab ID: 301003-003 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.18	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	123	64-134

Field ID: BR11-1GW01[10] Moisture: 15%
 Type: SAMPLE Batch#: 260960
 Lab ID: 301003-004 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.18	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	120	64-134

J= Estimated value
 RL= Reporting Limit
 MDL= Method Detection Limit
 Page 1 of 7

Gasoline by GC/FID (5035 Prep)			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/25/18
Basis:	dry	Received:	06/25/18

Field ID: BR11-1GW01[15] Moisture: 15%
 Type: SAMPLE Batch#: 260960
 Lab ID: 301003-005 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.015 J	0.17	0.011
Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	89	64-134	

Field ID: BR11-1GW01[20] Moisture: 14%
 Type: SAMPLE Batch#: 260960
 Lab ID: 301003-006 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.043 J	0.19	0.012
Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	118	64-134	

Field ID: BR11-1GW01[25] Moisture: 18%
 Type: SAMPLE Batch#: 260992
 Lab ID: 301003-007 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.030 J	0.20	0.013
Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	111	64-134	

Field ID: BR11-1GW01[30] Moisture: 17%
 Type: SAMPLE Batch#: 260992
 Lab ID: 301003-008 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.025 J	0.19	0.012
Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	120	64-134	

J= Estimated value
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/25/18
Basis:	dry	Received:	06/25/18

Field ID:	BR11-1GW01[35]	Moisture:	9%
Type:	SAMPLE	Batch#:	260992
Lab ID:	301003-009	Analyzed:	06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.034 J	0.22	0.014

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	64-134

Field ID:	BR11-1GW01[40]	Moisture:	13%
Type:	SAMPLE	Batch#:	260992
Lab ID:	301003-010	Analyzed:	06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.027 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	121	64-134

Field ID:	BR11-1GW01[45]	Moisture:	8%
Type:	SAMPLE	Batch#:	260992
Lab ID:	301003-011	Analyzed:	06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.028 J	0.19	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	64-134

Field ID:	BR11-1GW01[49]	Moisture:	11%
Type:	SAMPLE	Batch#:	260992
Lab ID:	301003-012	Analyzed:	06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.021 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	64-134

J= Estimated value
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/25/18
Basis:	dry	Received:	06/25/18

Field ID: DUP06252018-01 Moisture: 16%
 Type: SAMPLE Batch#: 261058
 Lab ID: 301003-013 Analyzed: 07/02/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.047 J	0.20	0.013
Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	106	64-134	

Field ID: BR11-1SB011[3] Moisture: 16%
 Type: SAMPLE Batch#: 260992
 Lab ID: 301003-014 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.029 J	0.22	0.014
Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	121	64-134	

Field ID: BR11-1SB011[5] Moisture: 16%
 Type: SAMPLE Batch#: 260992
 Lab ID: 301003-015 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.18	0.012
Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	121	64-134	

Field ID: BR11-1SB011[7] Moisture: 16%
 Type: SAMPLE Batch#: 260992
 Lab ID: 301003-016 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.034 J	0.18	0.012
Surrogate	%REC	Limits	
Bromofluorobenzene (FID)	112	64-134	

J= Estimated value
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/25/18
Basis:	dry	Received:	06/25/18

Field ID: BR11-1SB011[10] Moisture: 13%
 Type: SAMPLE Batch#: 260992
 Lab ID: 301003-017 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.029 J	0.19	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	64-134

Field ID: BR11-1SB011[15] Moisture: 15%
 Type: SAMPLE Batch#: 260992
 Lab ID: 301003-018 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.018 J	0.19	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	116	64-134

Field ID: BR11-1SB011[20] Moisture: 13%
 Type: SAMPLE Batch#: 260992
 Lab ID: 301003-019 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.065 J	0.19	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	116	64-134

Field ID: BR11-1SB011[25] Moisture: 17%
 Type: SAMPLE Batch#: 260992
 Lab ID: 301003-020 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.030 J	0.22	0.014

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	64-134

J= Estimated value
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/25/18
Basis:	dry	Received:	06/25/18

Field ID:	BR11-1SB011[30]	Moisture:	18%
Type:	SAMPLE	Batch#:	260992
Lab ID:	301003-021	Analyzed:	06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.029 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	64-134

Field ID:	BR11-1SB011[35]	Moisture:	6%
Type:	SAMPLE	Batch#:	260992
Lab ID:	301003-022	Analyzed:	06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.018 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	64-134

Field ID:	DUP06252018-02	Moisture:	14%
Type:	SAMPLE	Batch#:	260992
Lab ID:	301003-023	Analyzed:	06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.11 J	0.19	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	129	64-134

Type:	BLANK	Batch#:	260960
Lab ID:	QC937729	Analyzed:	06/28/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.028 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	64-134

J= Estimated value
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC937724	Batch#:	260960
Matrix:	Soil	Analyzed:	06/28/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.142	114	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	64-134

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	301132-002	Batch#:	260960
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	as received	Analyzed:	06/29/18

Type: MS Lab ID: QC937727

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.2202	10.75	9.865 b	90	46-120
Surrogate	%REC	Limits			
Bromofluorobenzene (FID)	114	64-134			

Type: MSD Lab ID: QC937728

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.00	9.225 b	90	46-120	0	33
Surrogate	%REC	Limits				
Bromofluorobenzene (FID)	106	64-134				

b= See narrative

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC937847	Batch#:	260992
Matrix:	Soil	Analyzed:	06/29/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.152	115	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	64-134

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	261058
Units:	mg/Kg	Analyzed:	07/02/18
Diln Fac:	1.000		

Type: BS Lab ID: QC938139

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.119	112	80-120

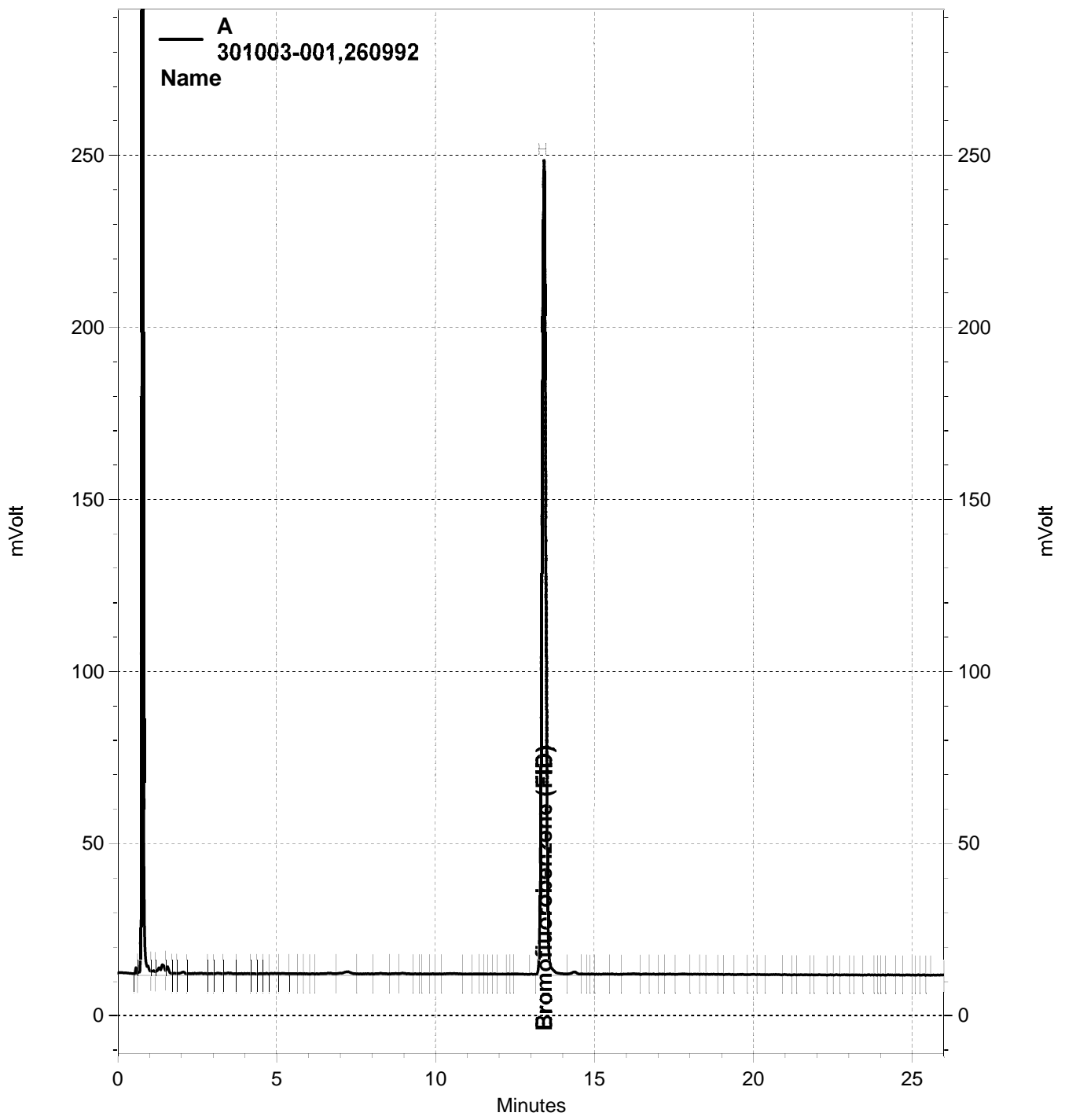
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-134

Type: BSD Lab ID: QC938140

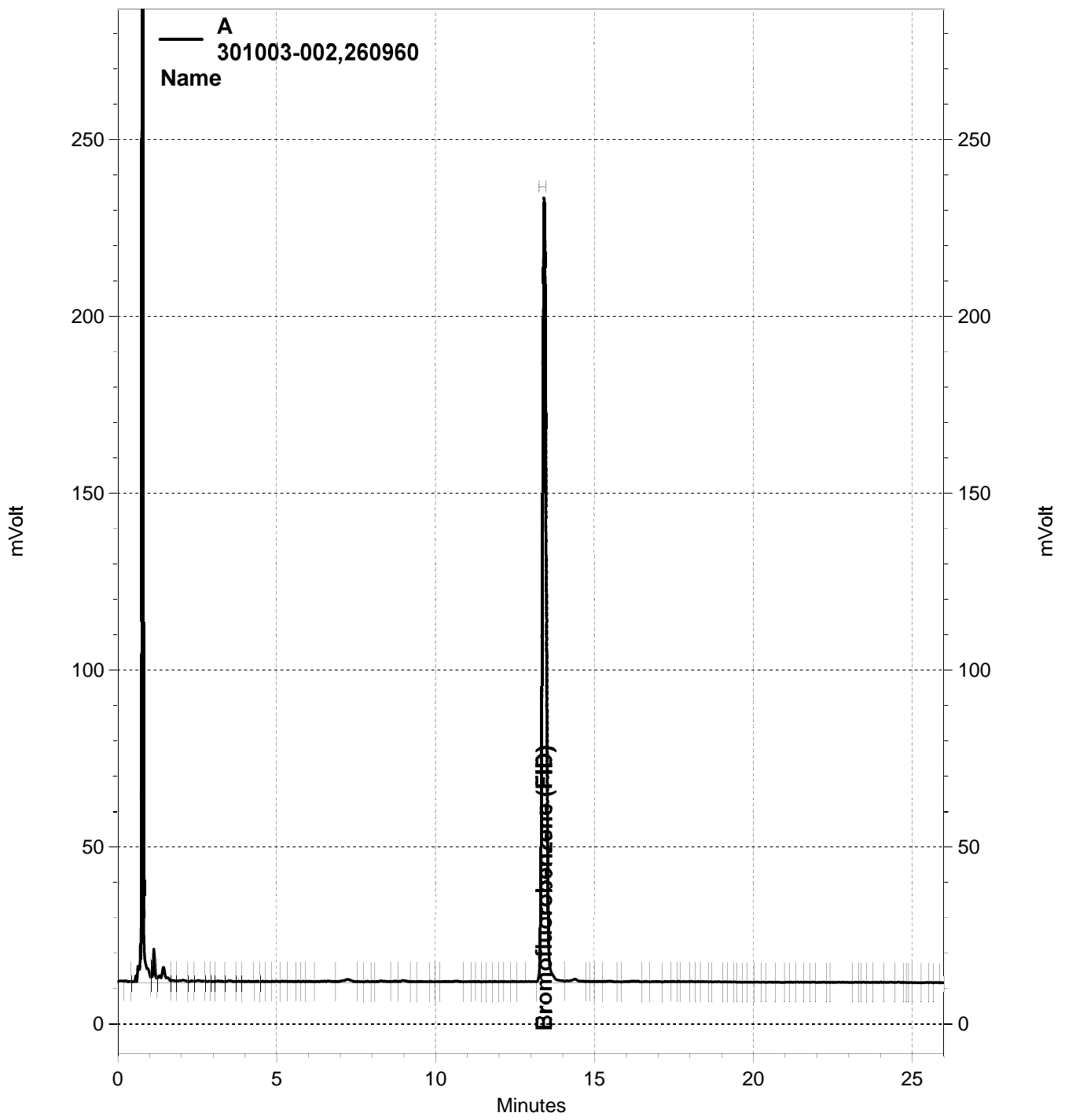
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.091	109	80-120	3	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	64-134

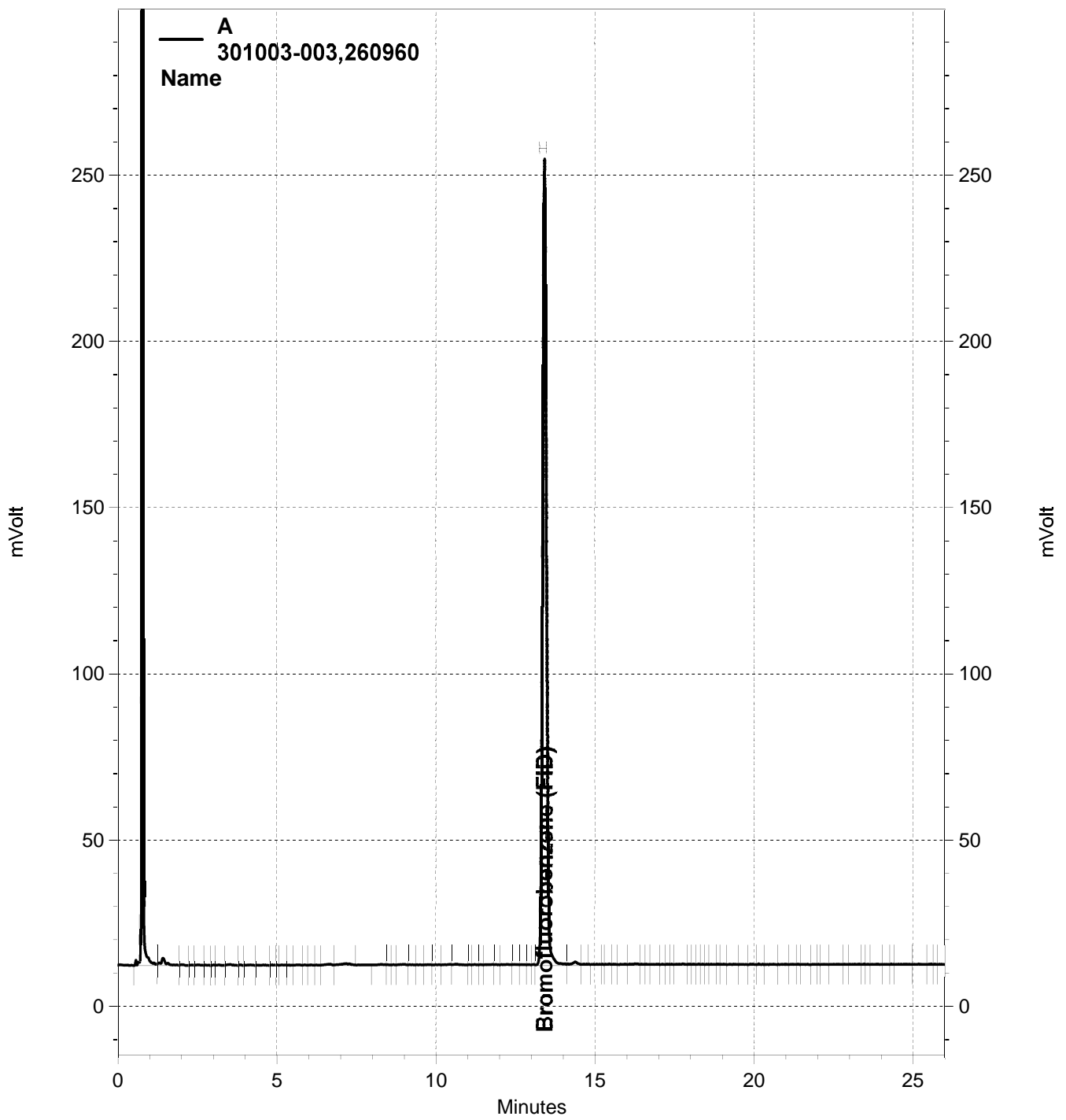
RPD= Relative Percent Difference



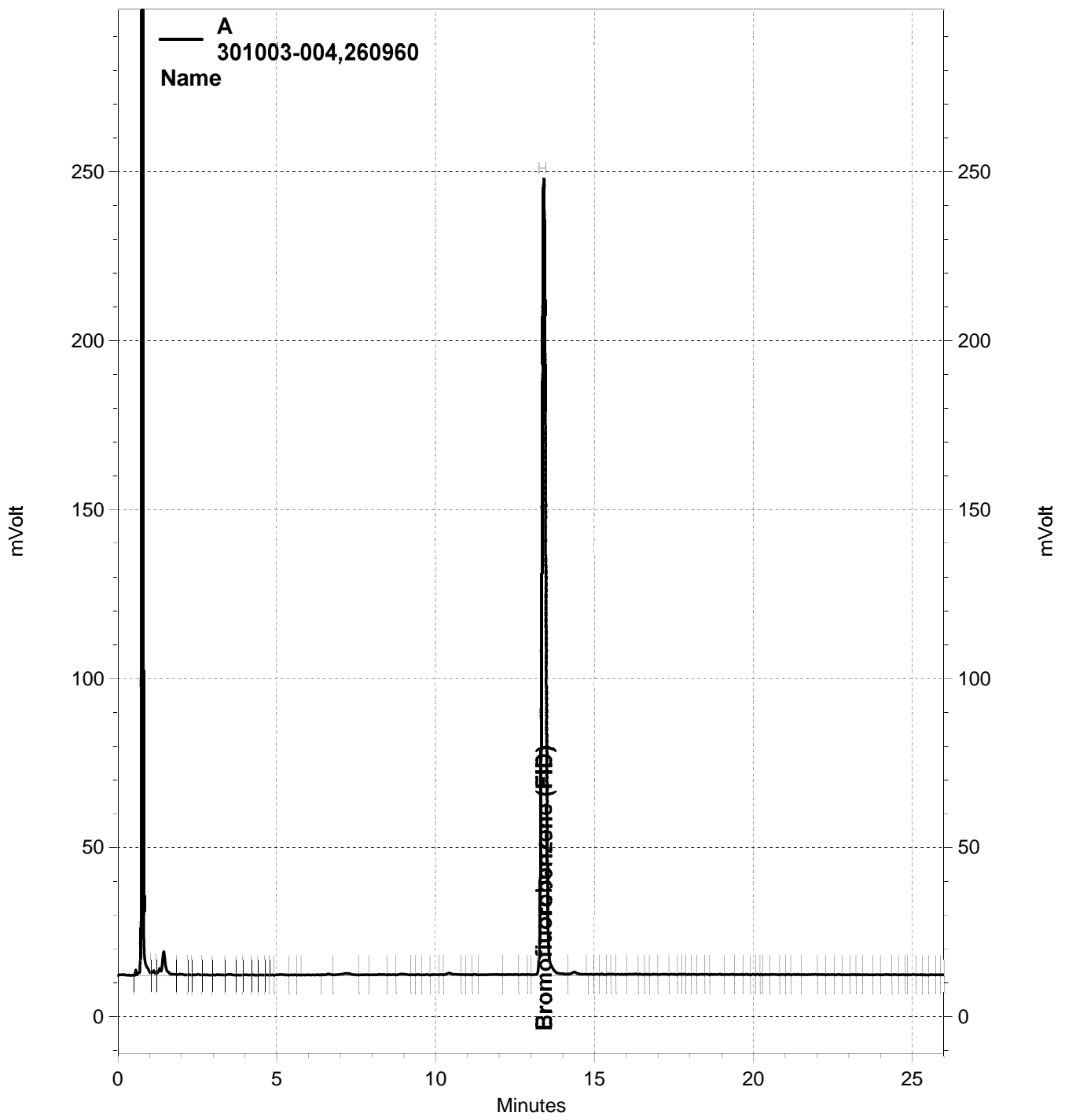
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-010, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\179-018, A

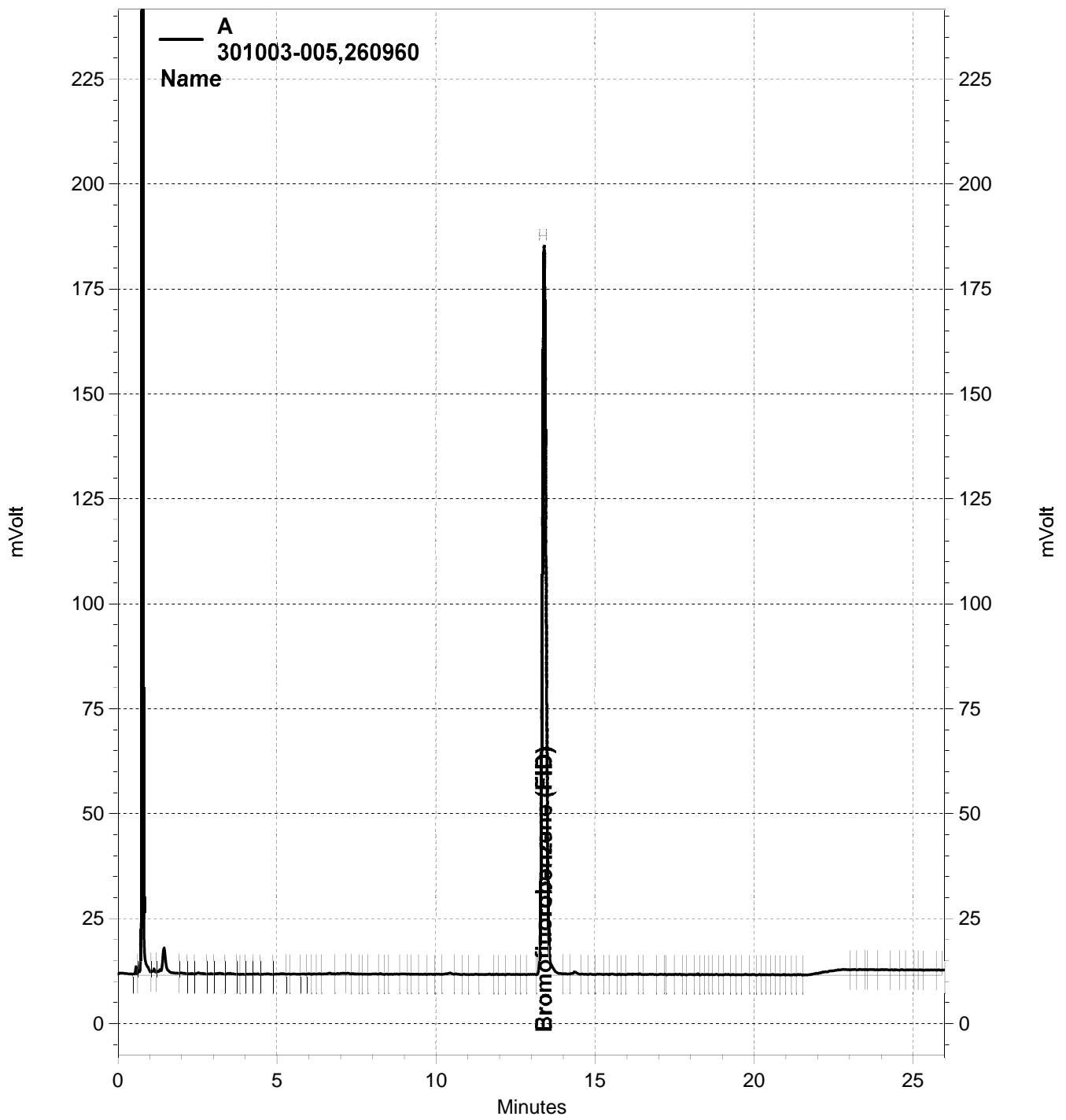


— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\179-019, A

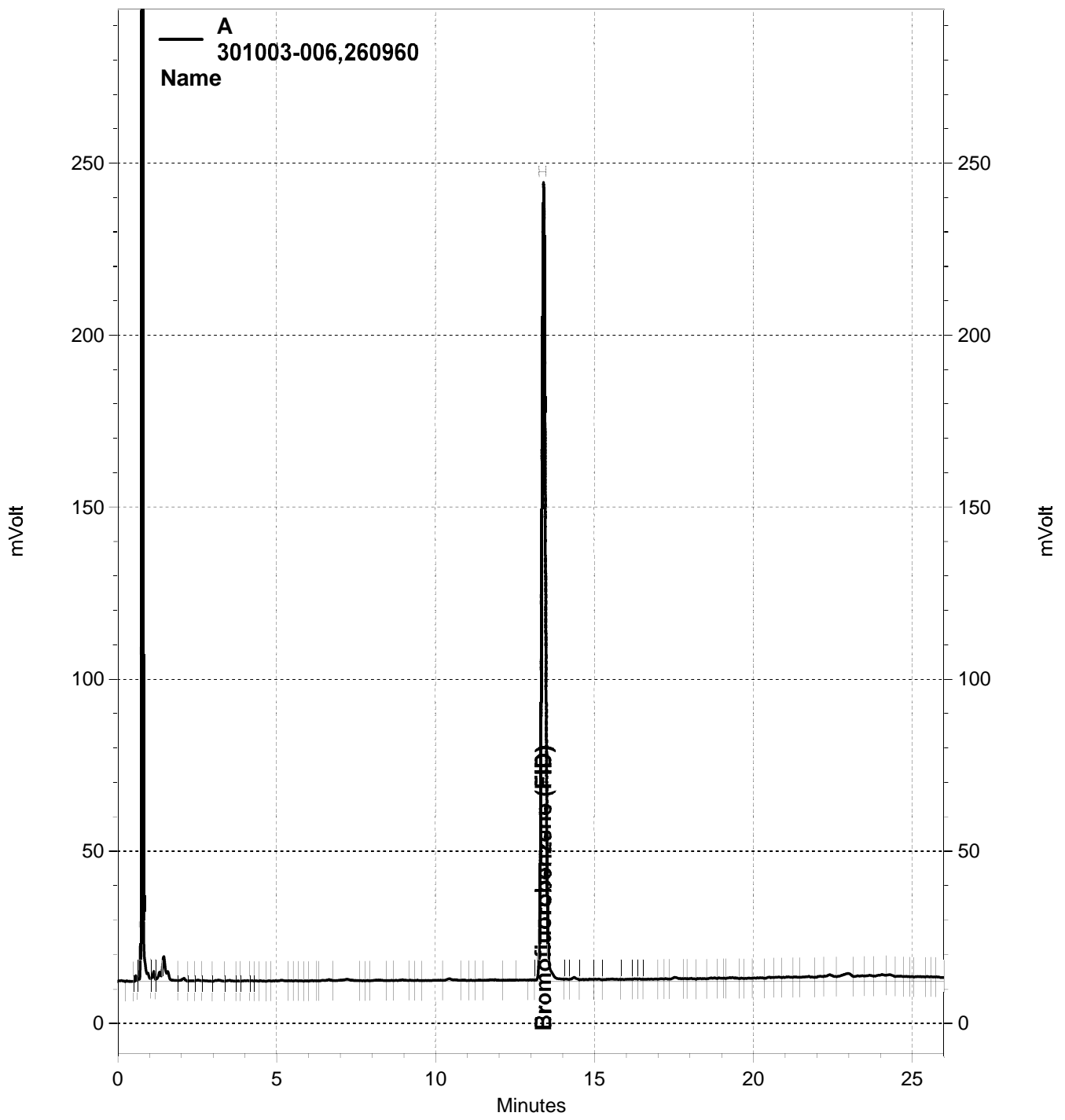


A
301003-004,260960
Name

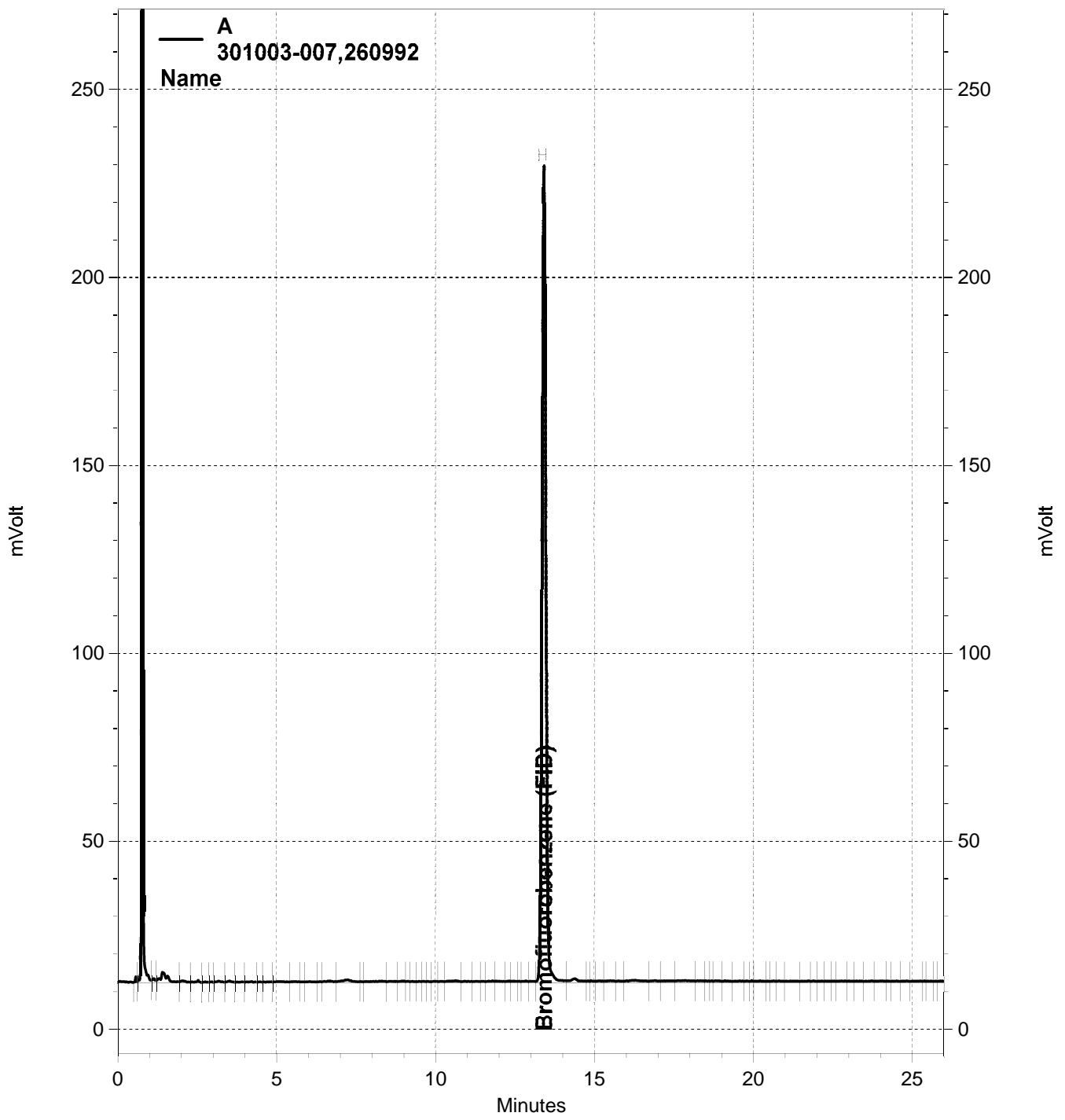
\\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\179-020, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\179-021, A



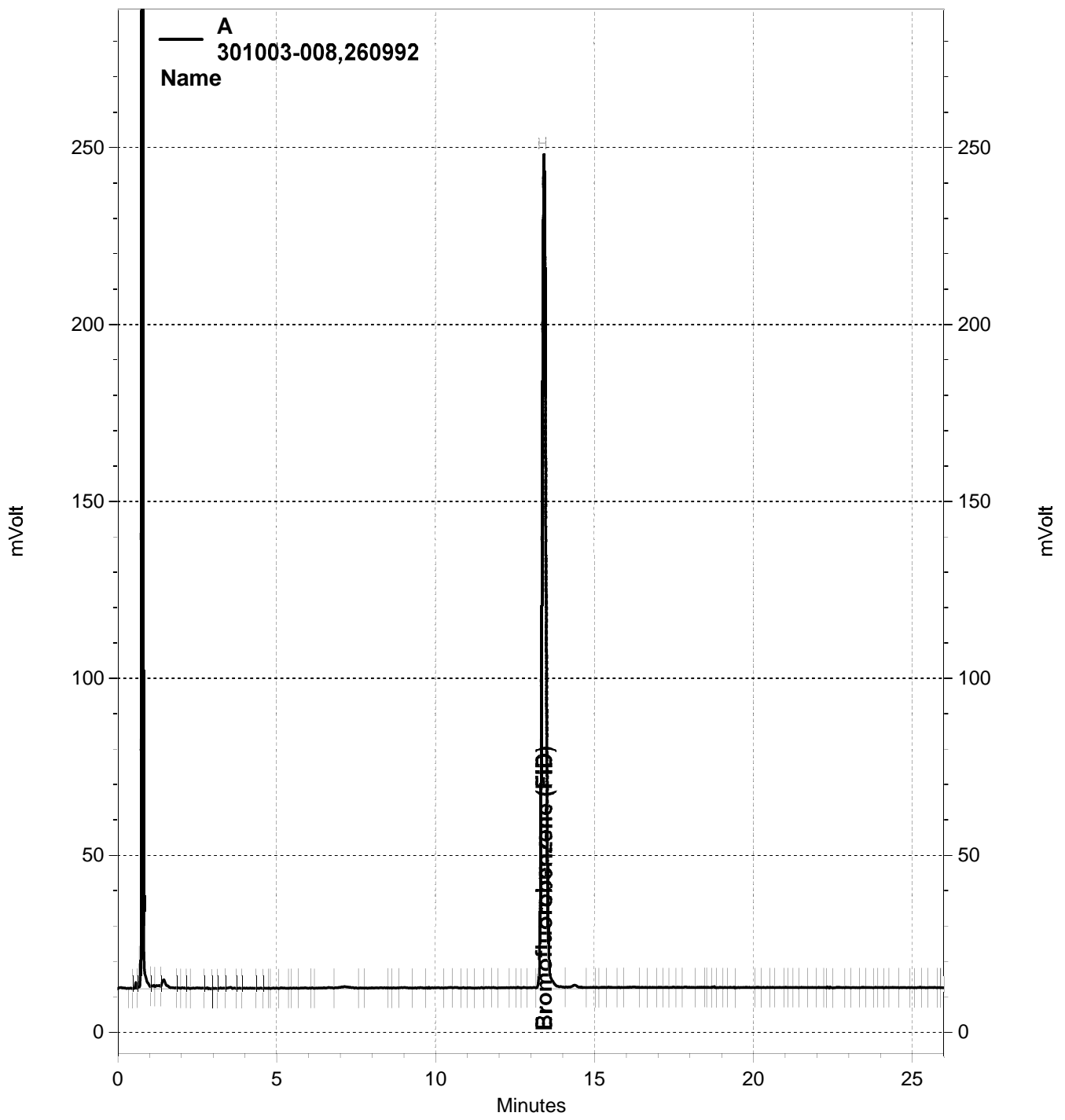
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\179-022, A



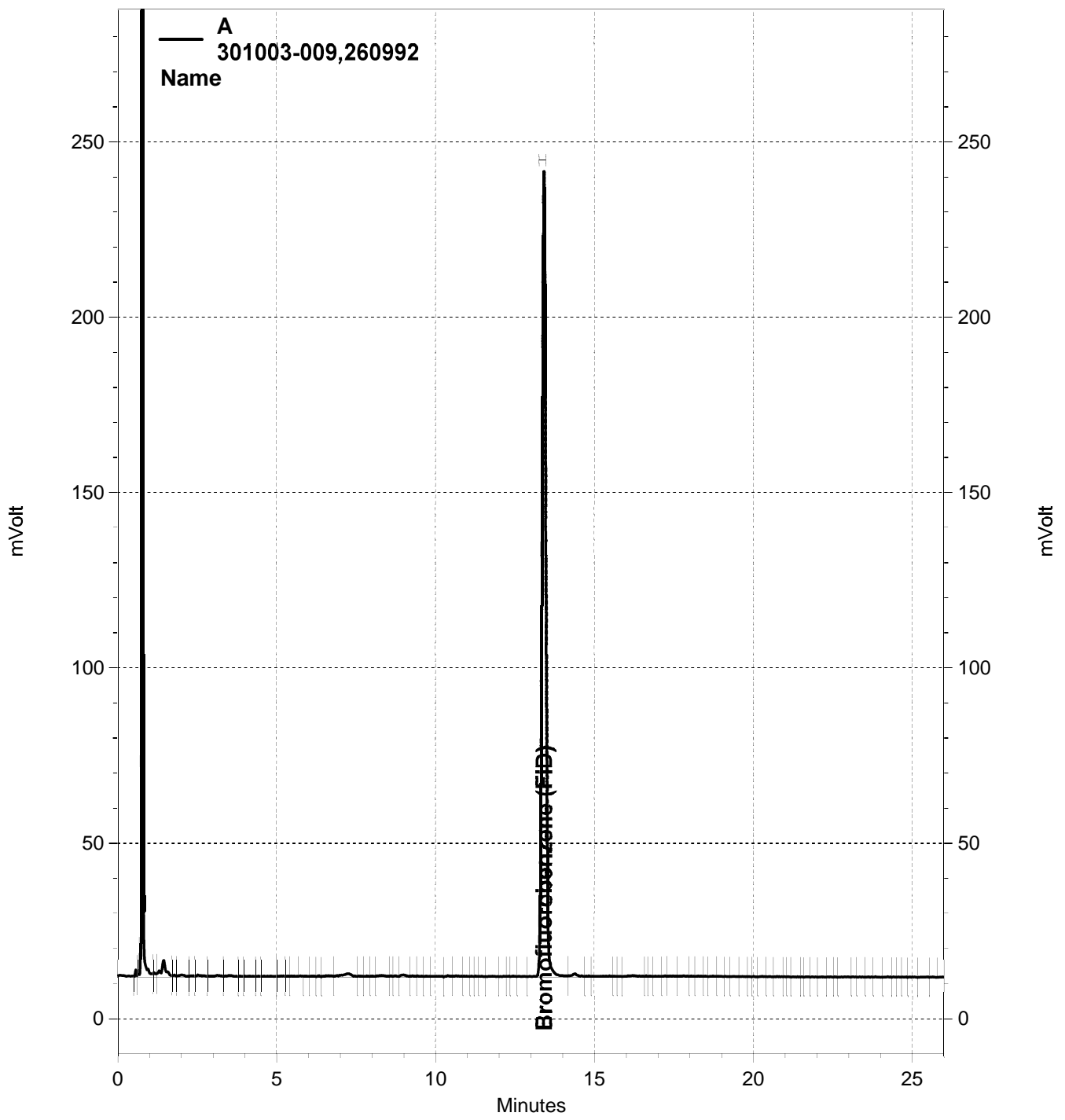
A
301003-007,260992
Name

Bromofluorobenzene (F18)

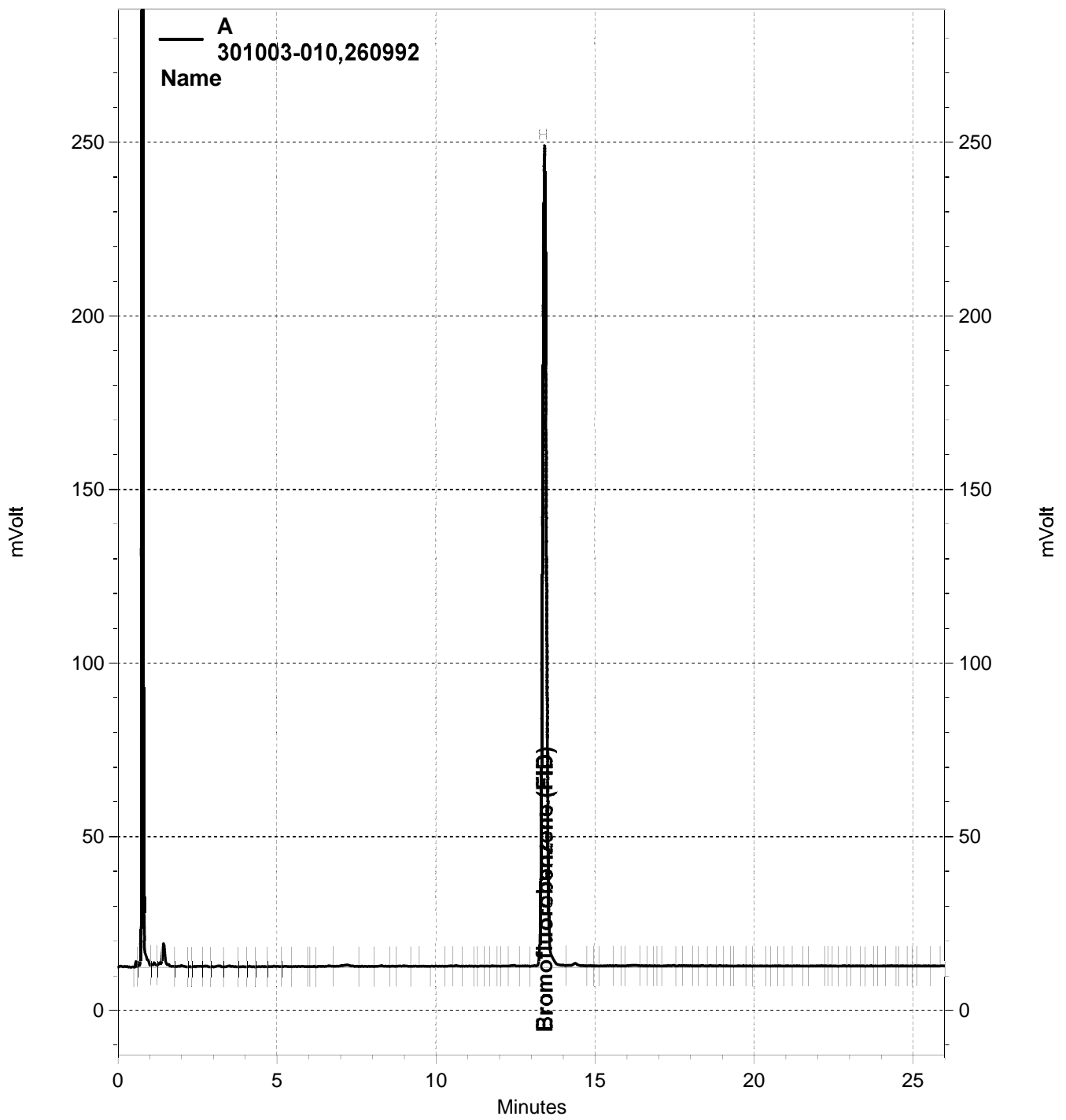
\\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-011, A



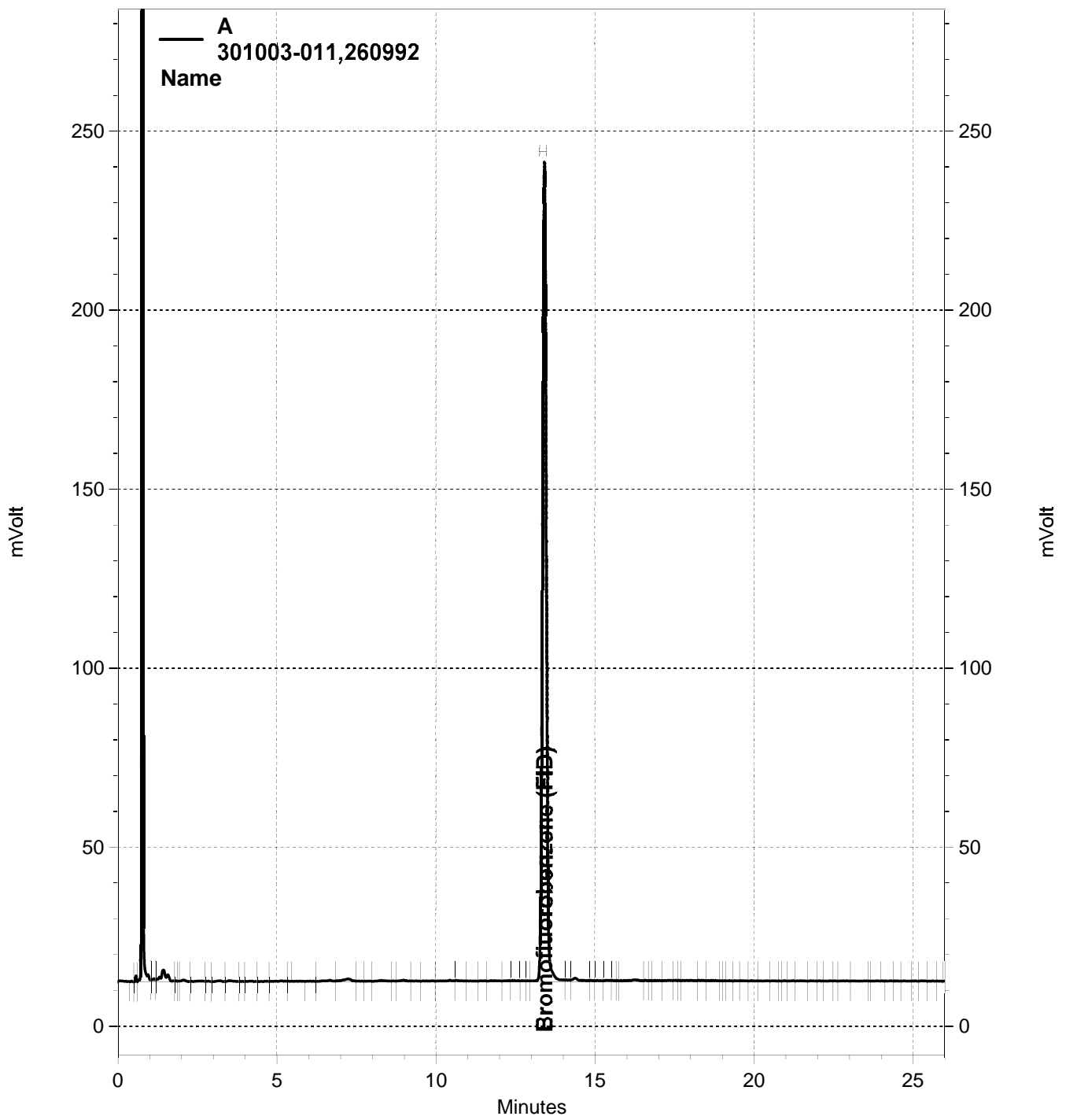
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-012, A



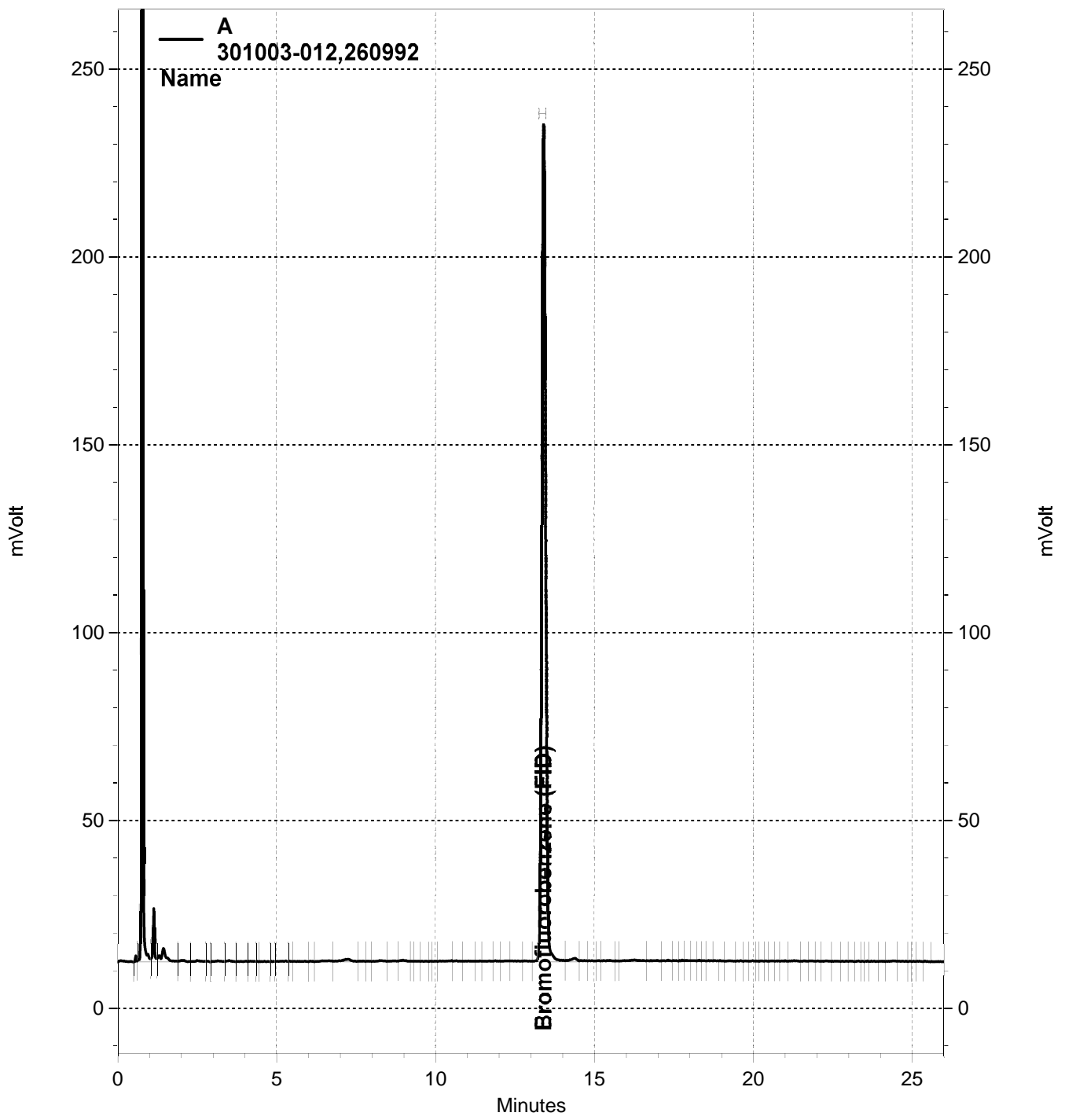
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-013, A



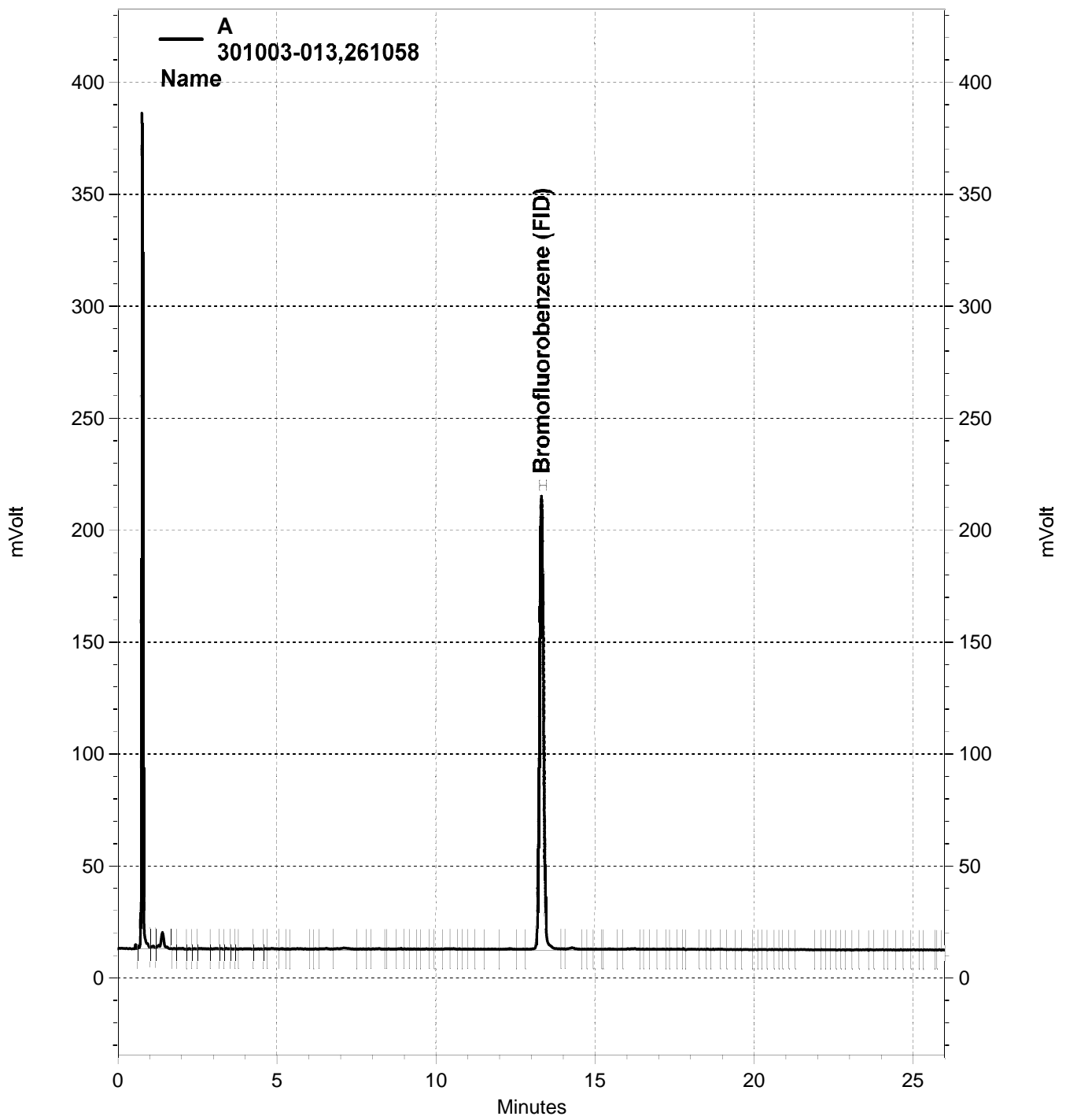
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-014, A



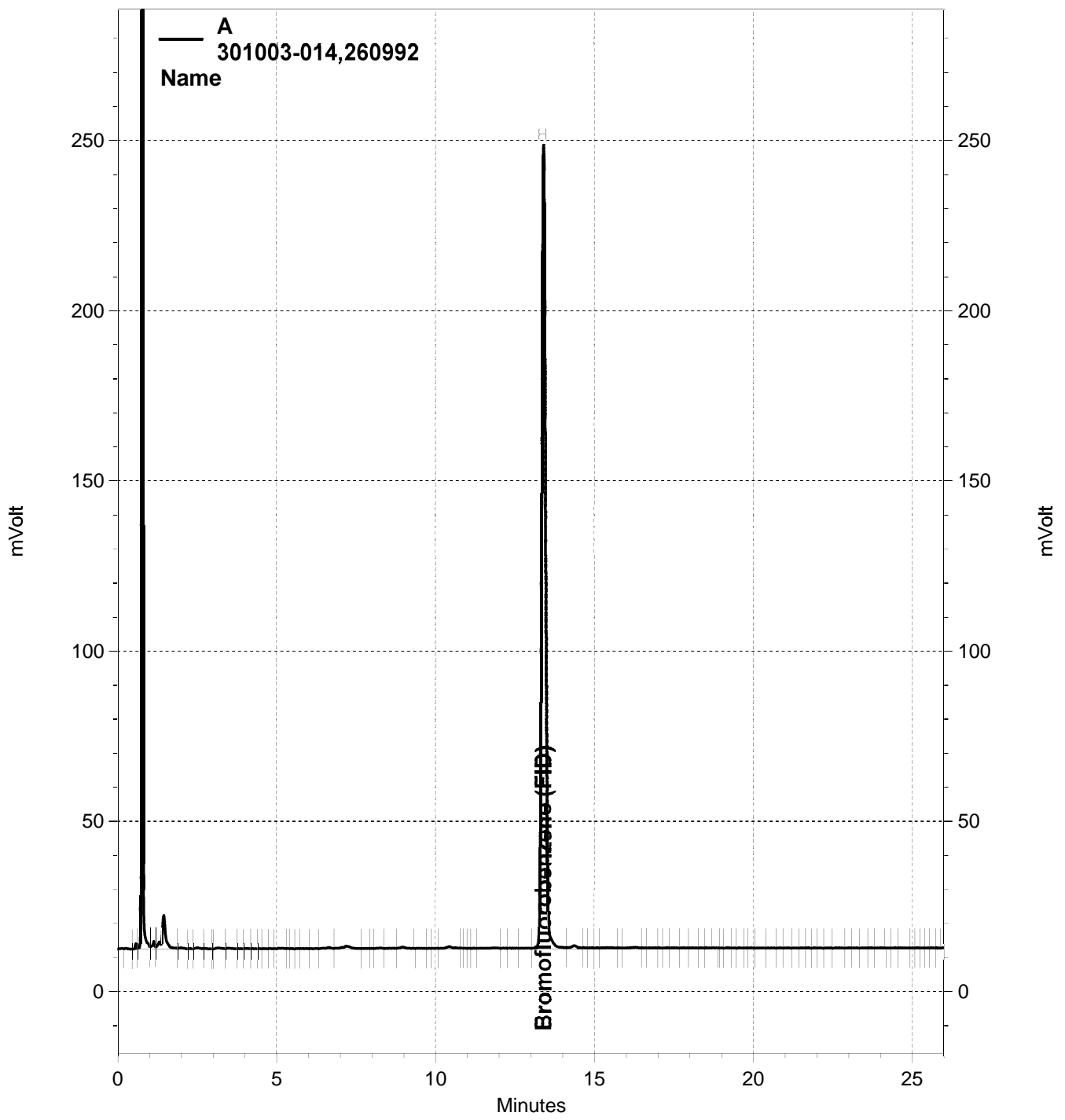
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-015, A



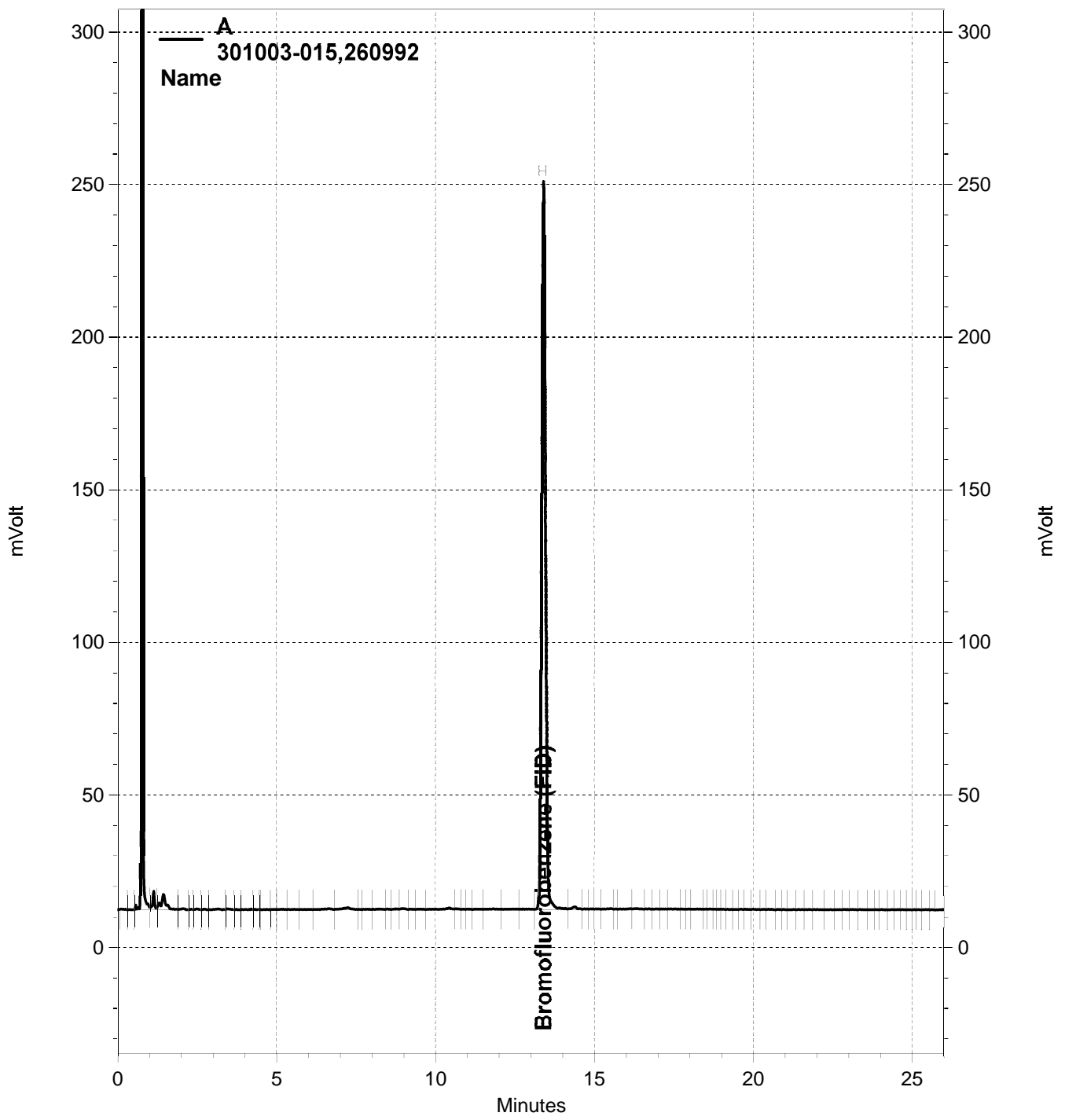
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-018, A



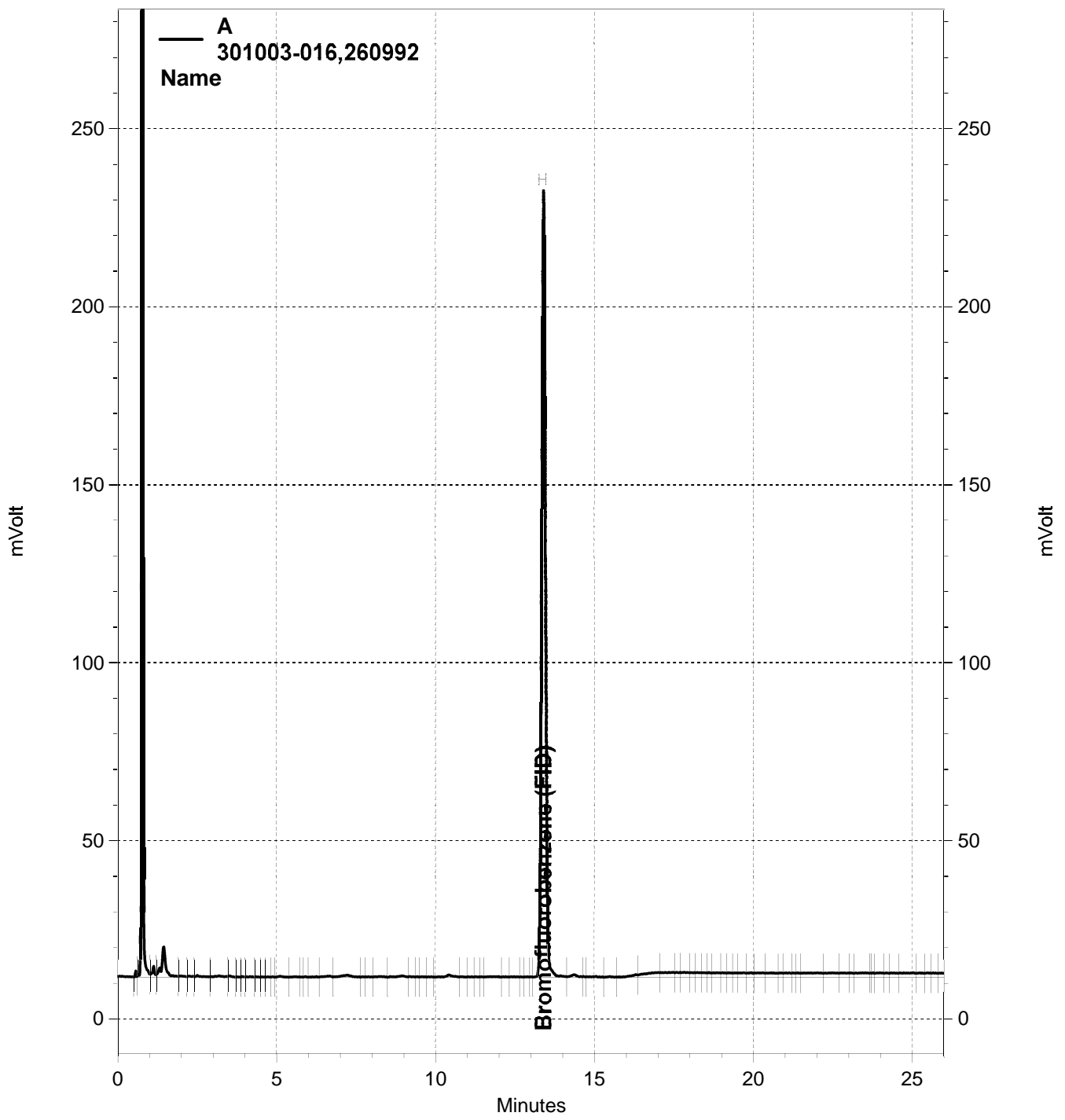
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\183-009, A



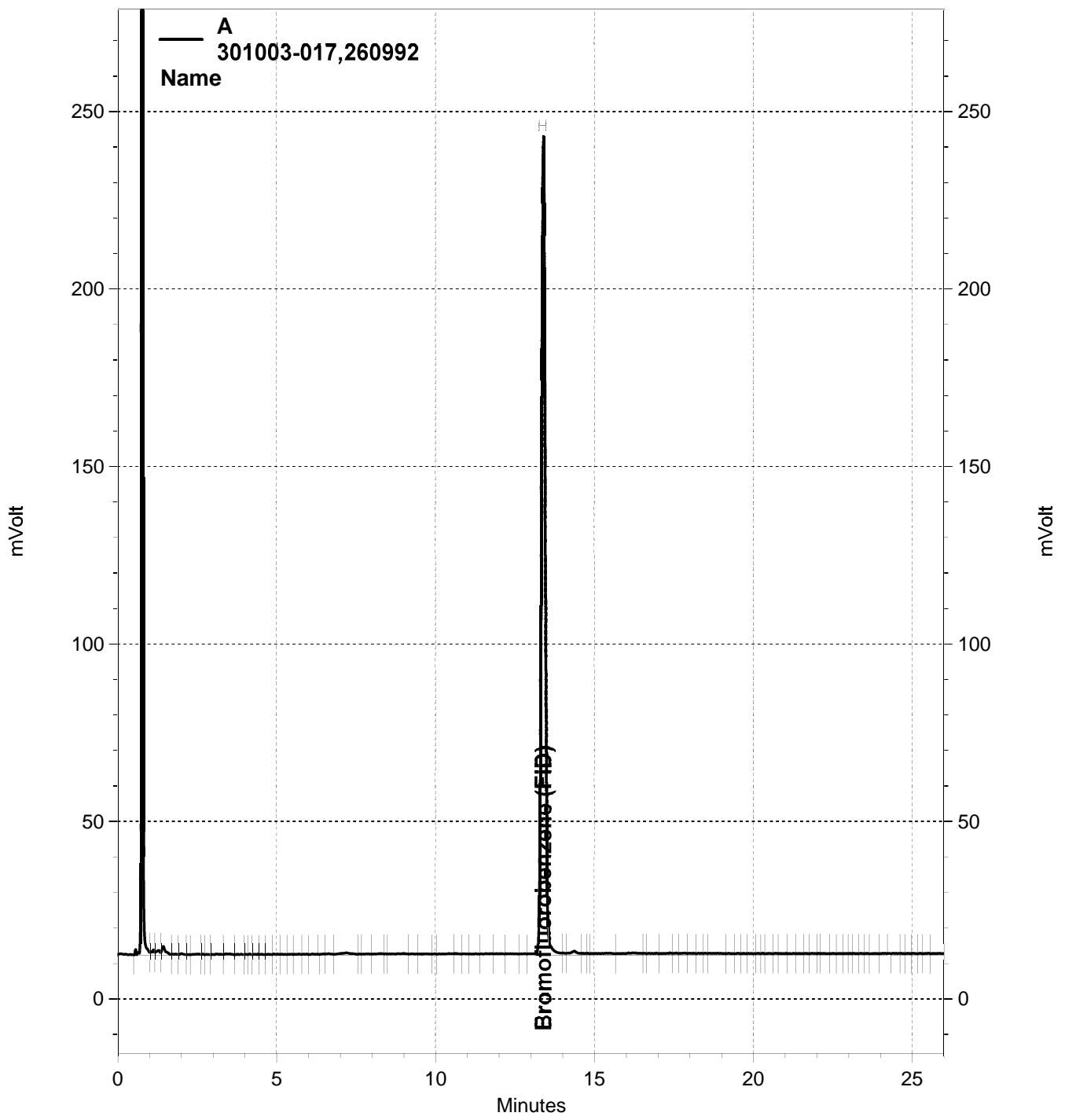
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-020, A



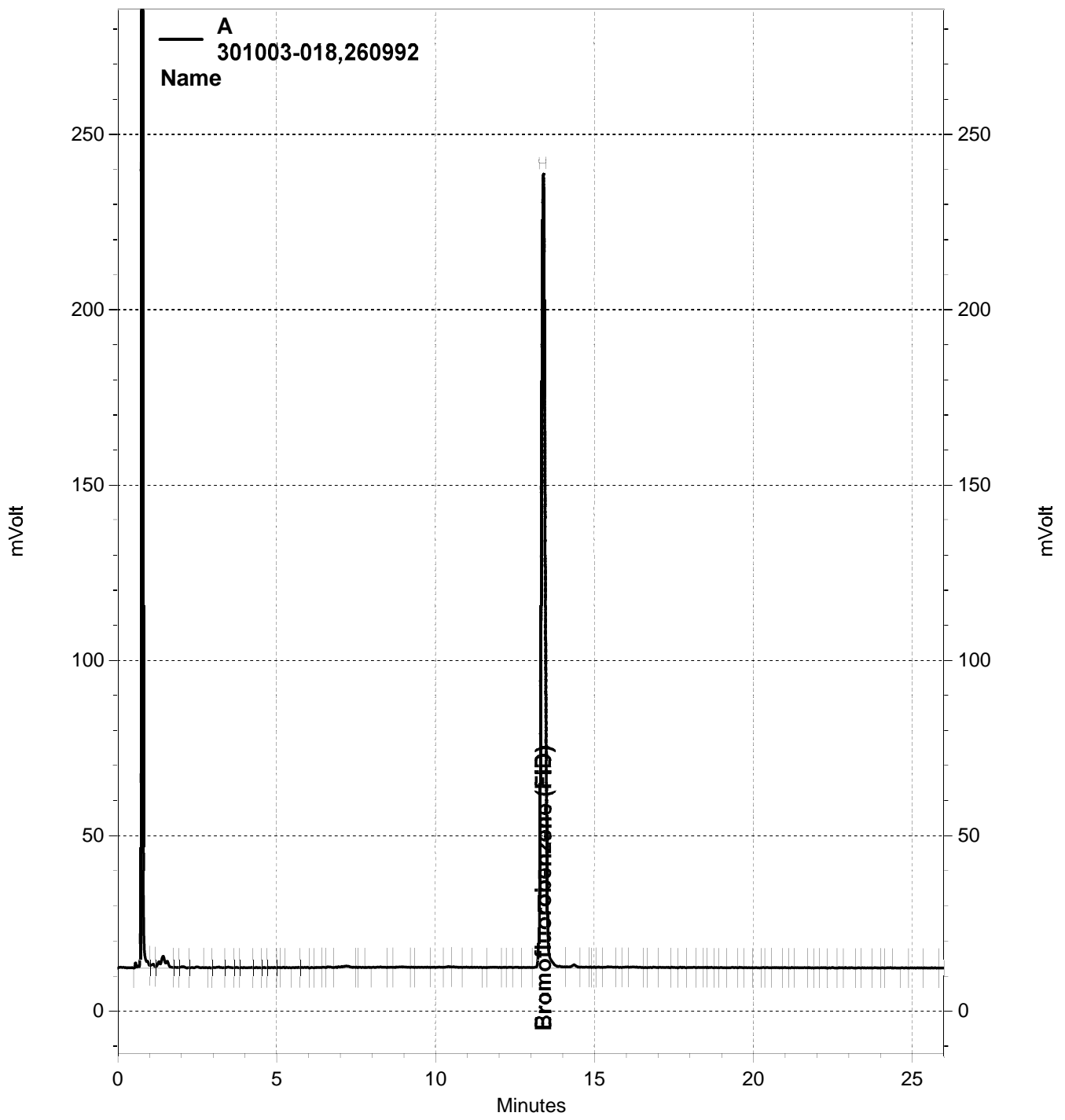
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-021, A



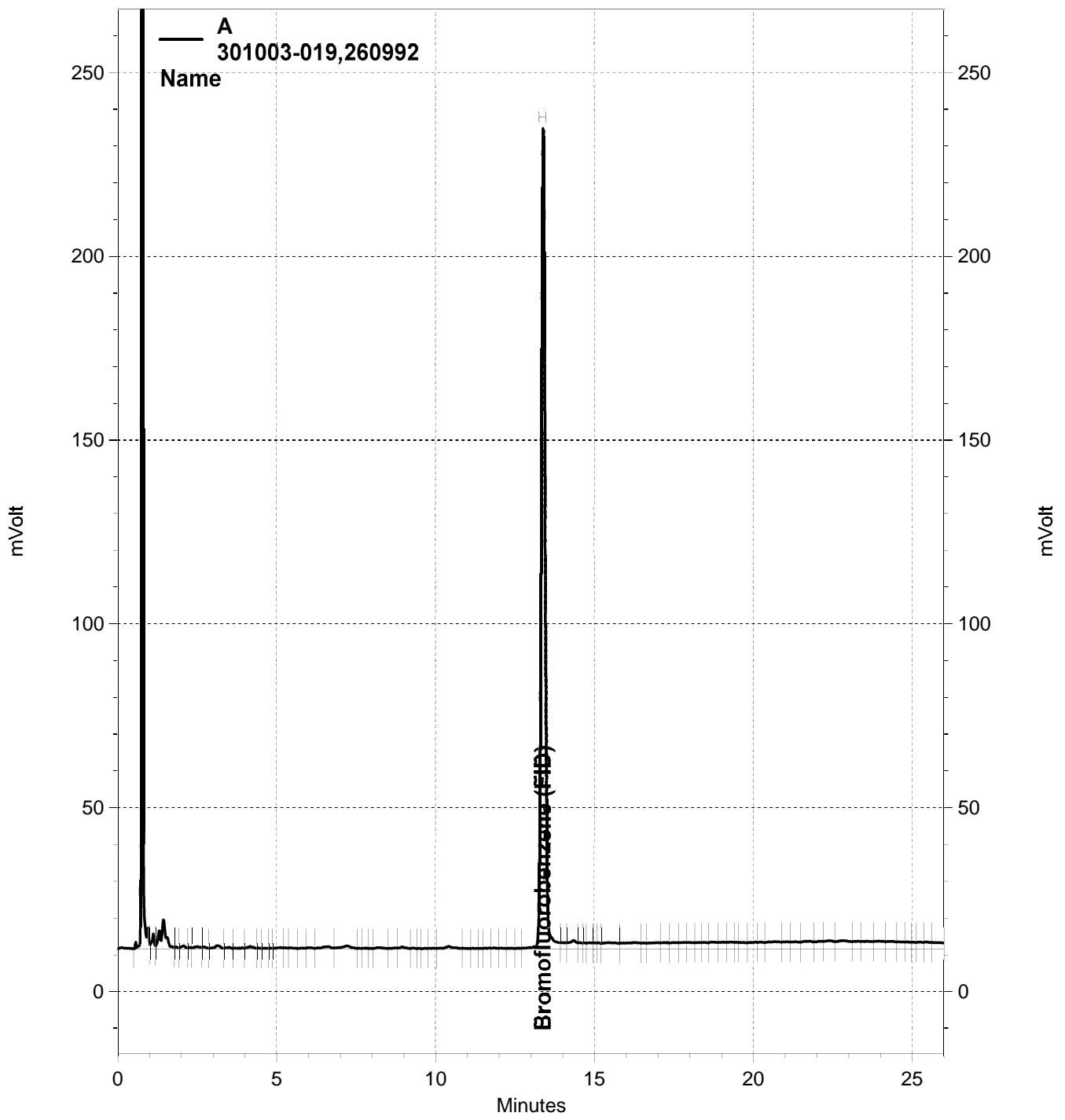
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-022, A



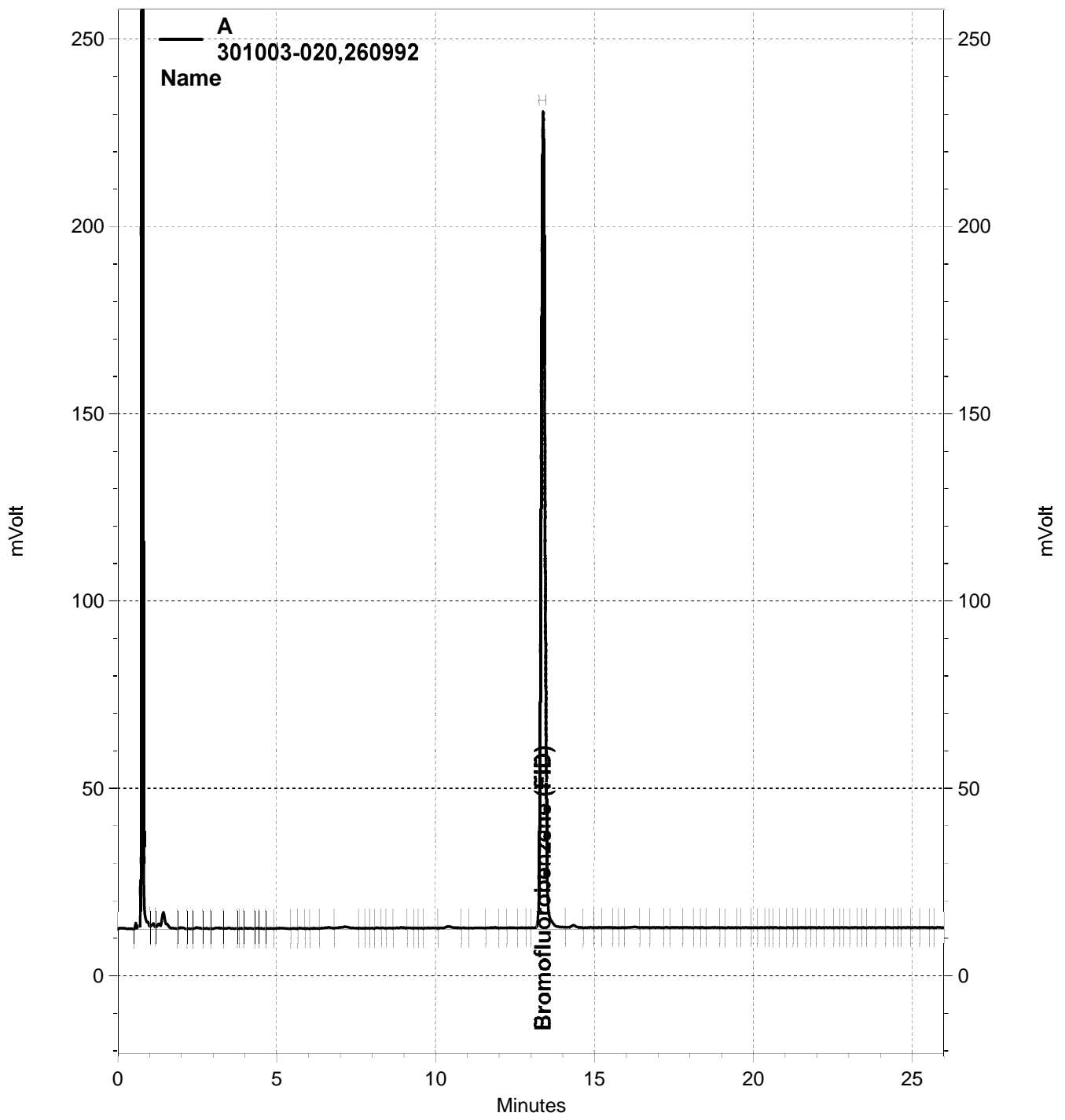
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-023, A



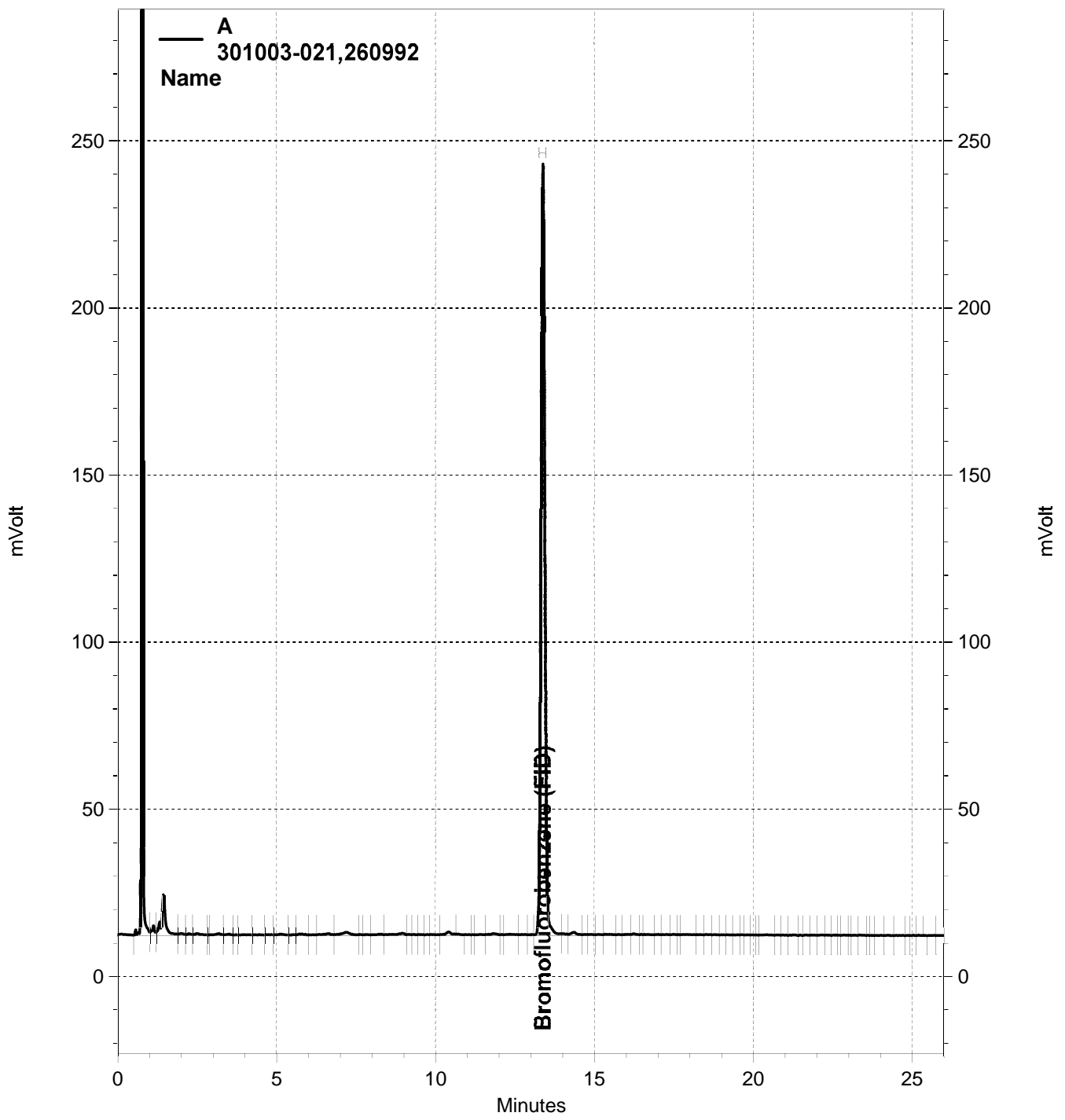
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-024, A



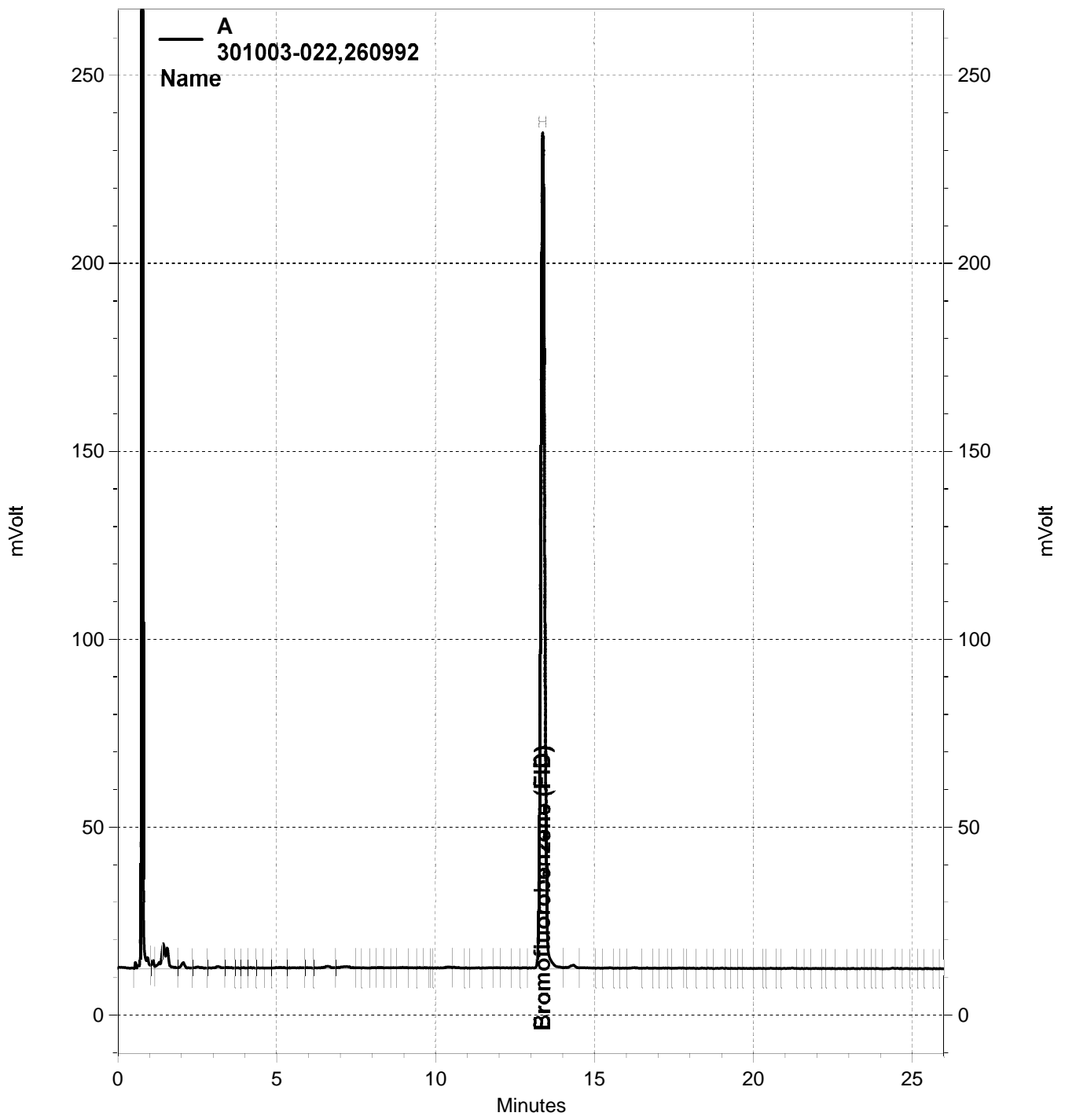
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-025, A



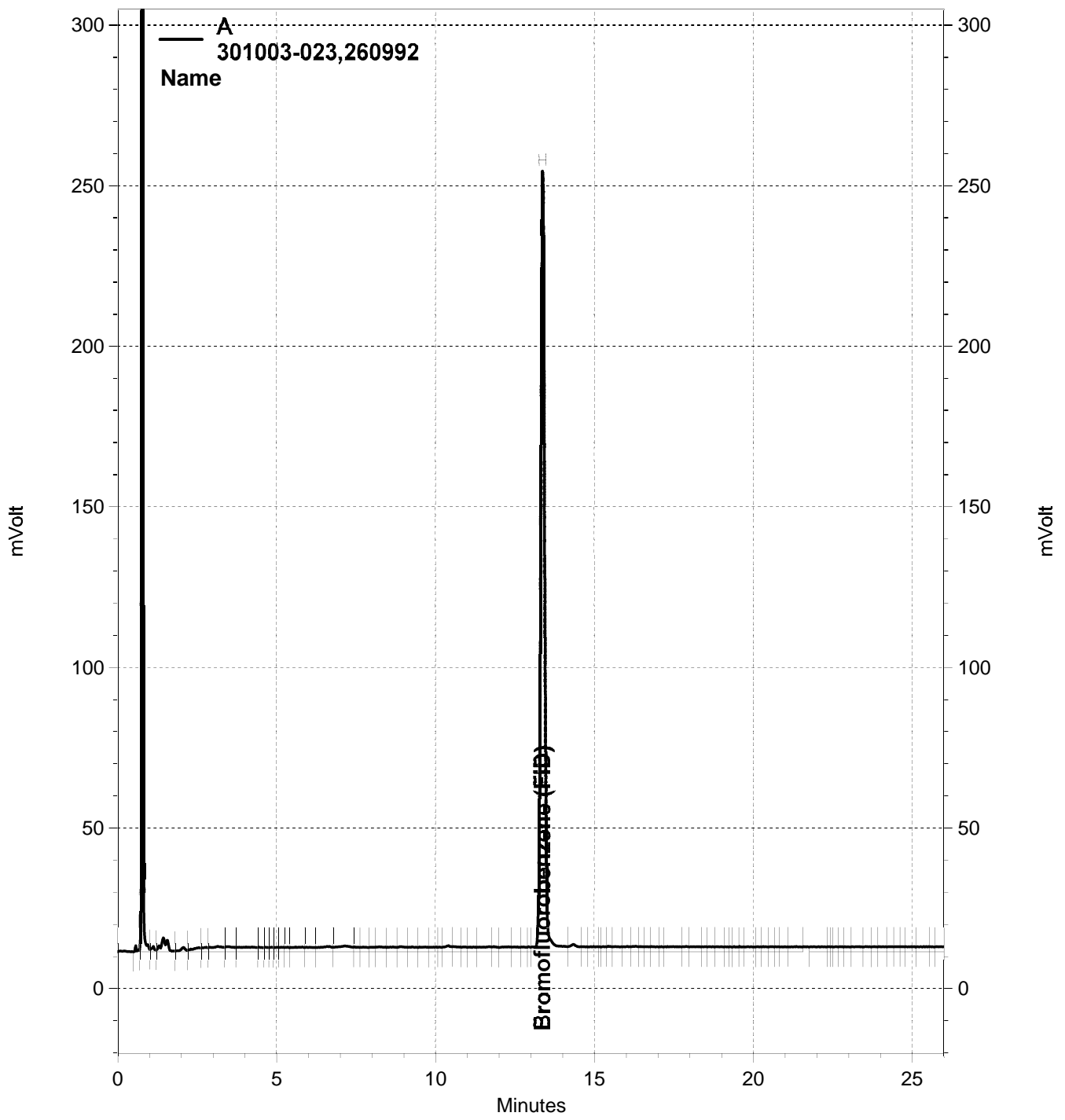
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-026, A



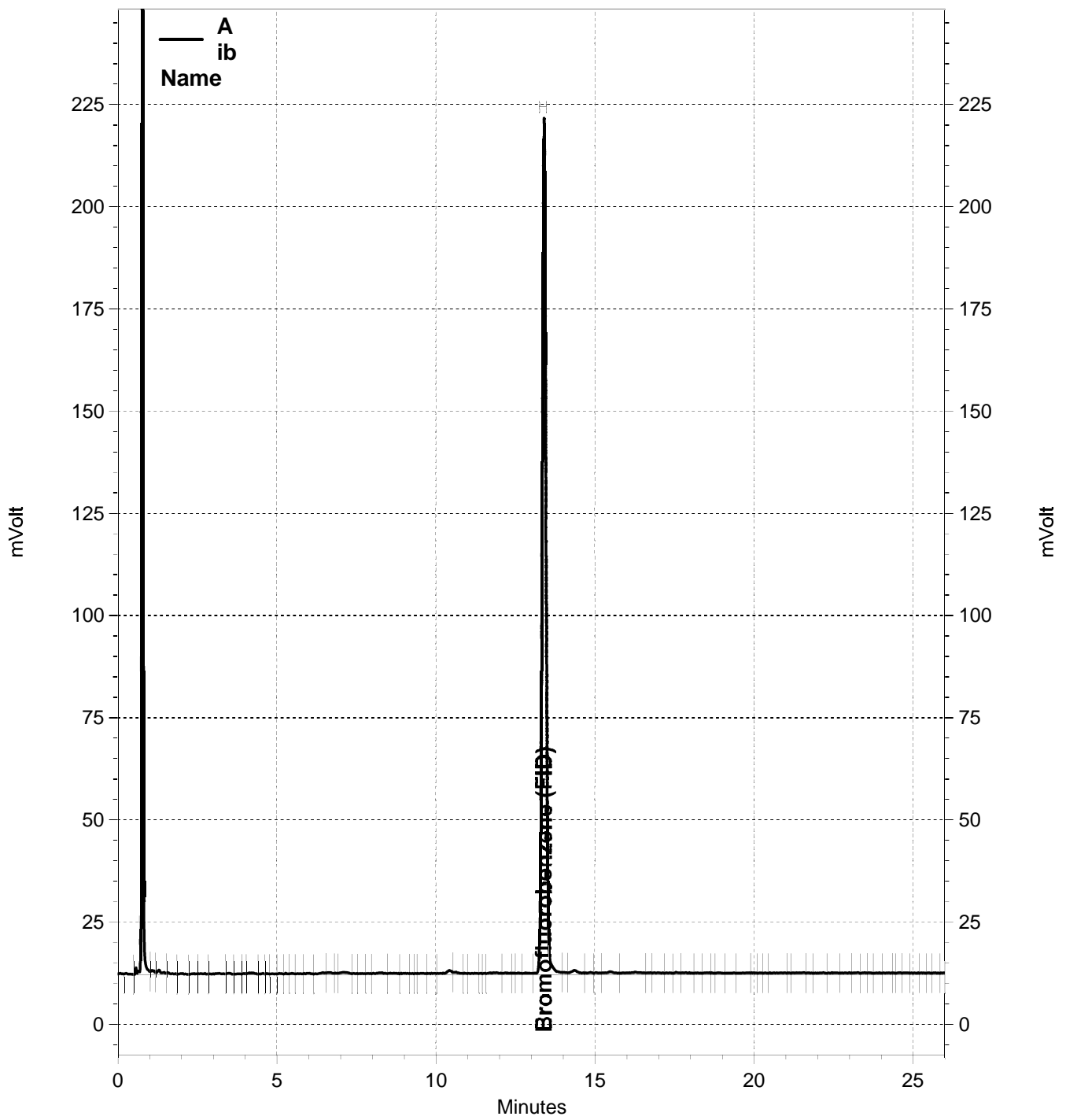
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-027, A



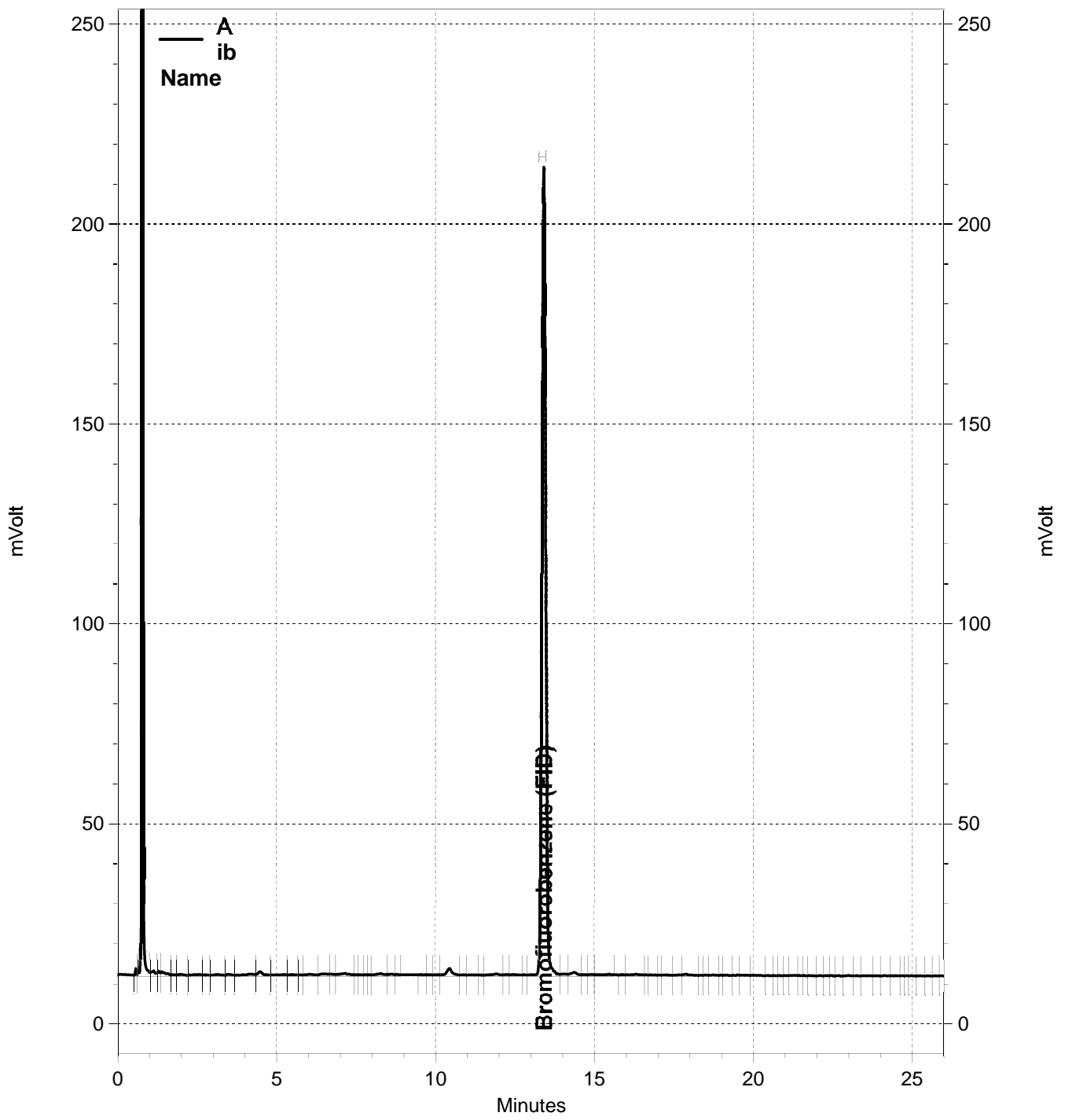
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-030, A



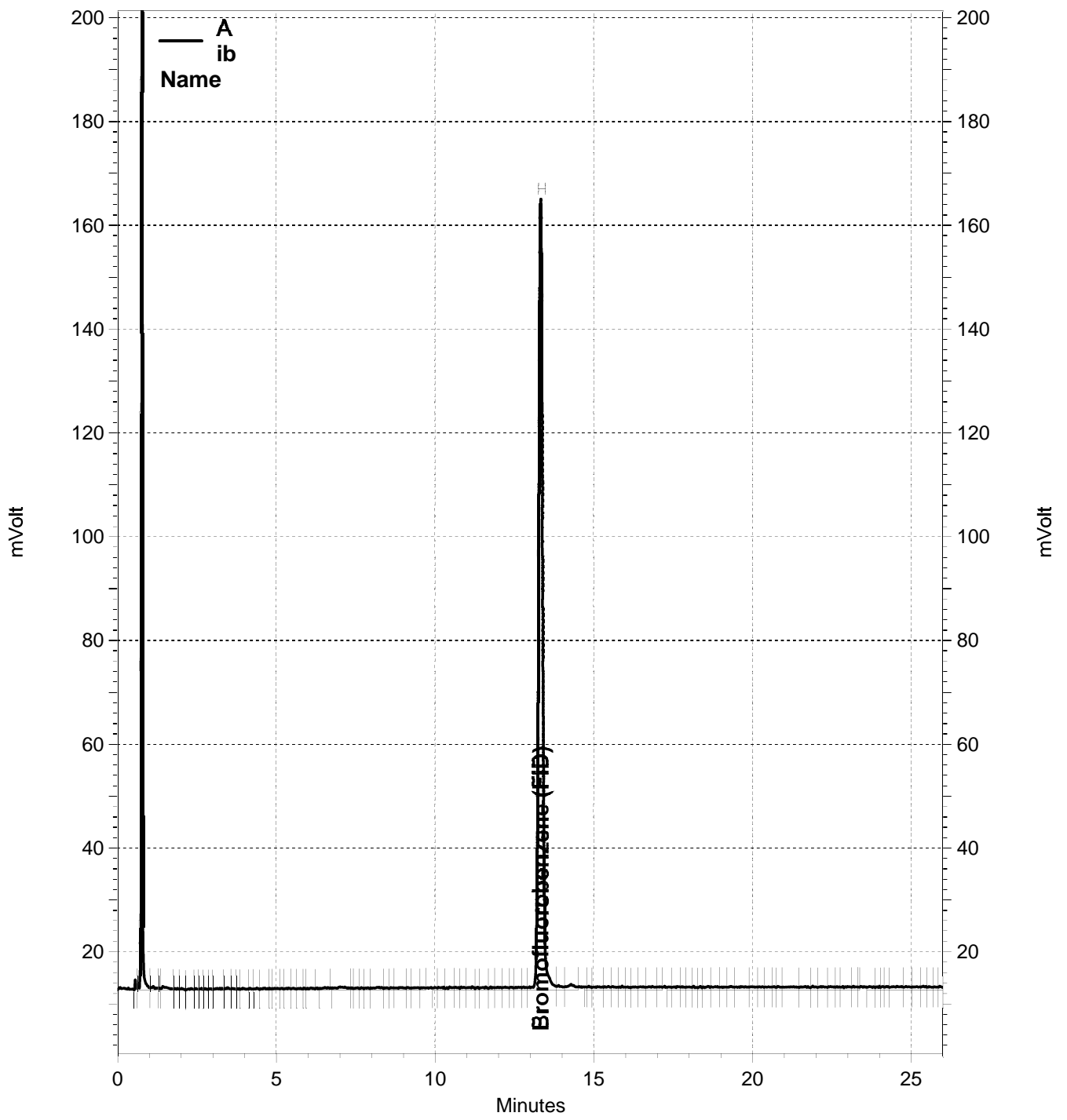
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-031, A



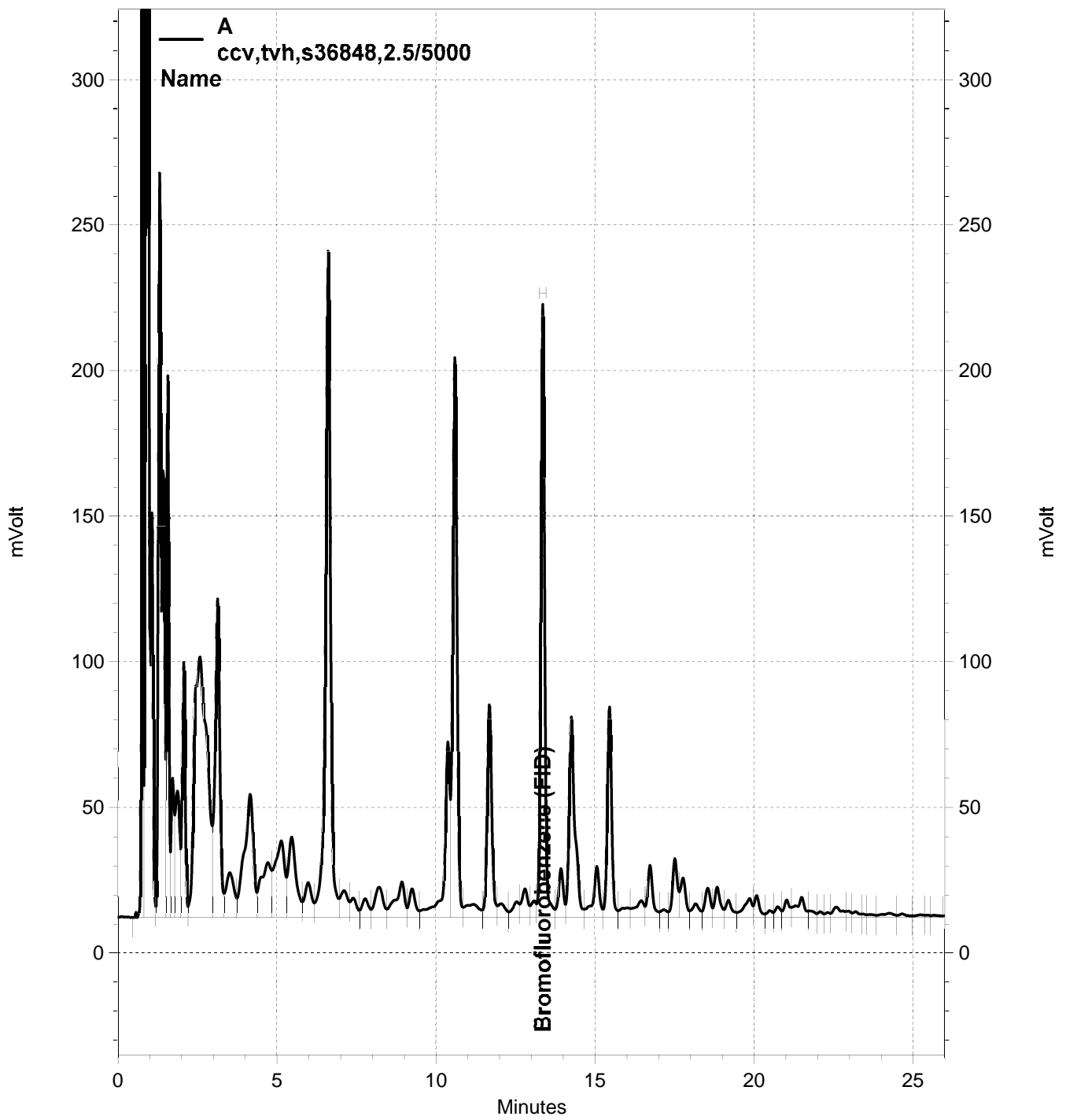
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\179-008, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\180-008, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\183-008, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\179-002, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 301003 GCVOA Soil: EPA 8015B

Inst : GC05
 Calnum : 318176372002
 Units : ng

Name : TVH_122
 Date : 02-MAY-2018 12:09
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_002	318176372002	TVH_14	02-MAY-2018 12:09	S36893 (1000X), S36233 (5000X)
L2	122_003	318176372003	TVH_15	02-MAY-2018 12:47	S36892 (1000X), S36233 (5000X)
L3	122_004	318176372004	TVH_16	02-MAY-2018 13:25	S36891 (1000X), S36233 (5000X)
L4	122_005	318176372005	TVH_17	02-MAY-2018 14:02	S36890 (2000X), S36233 (5000X)
L5	122_006	318176372006	TVH_18	02-MAY-2018 14:40	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2961.4	2506.0	2455.4	2423.4	2633.8	AVRG		3.85E-4		2596.0	8	0.995	20	
Bromofluorobenzene (FID)	A	1639.9	1598.1	1644.8	2044.9	2307.4	AVRG		5.41E-4		1847.0	17	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	14	2500.0	-3	10000	-5	25000	-7	50000	1
Bromofluorobenzene (FID)	A	900.00	-11	900.00	-13	900.00	-11	900.00	11	900.00	25

CJN 05/02/18 : Corrected baseline noise or negative peak in TVH_14 (122_002).

Analyst: CJN

Date: 05/02/18

Reviewer: EAH

Date: 05/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05
Calnum : 318176372002

Name : TVH_122
Cal Date : 02-MAY-2018

ICV 318176372008 (122_008 02-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8824	ng	-12	15	

Analyst: CJN

Date: 05/02/18

Reviewer: EAH

Date: 05/03/18

ENTHALPY SPIKE USER REPORT FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC937724 IDF : 1.0
 Seqnum : 318258314002.1 File : 179_002 Time : 28-JUN-2018 09:51
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2596.0	2965.4	5000	5711	ng	14	15	u
Bromofluorobenzene (FID)	A	1847.0	2034.0	900.0	991.1	ng	10	15	u

Analyst: JM2 Date: 07/03/18 Reviewer: TKM Date: 07/03/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318258314014 File : 179_014 Time : 28-JUN-2018 18:09
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2992.9	10000	11530	ng	15	15	
Bromofluorobenzene (FID)	A	1847.0	2220.8	900.0	1082	ng	20	15	c+

Analyst: JM2 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

+ = high bias c = CCV

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318258314015 File : 179_015 Time : 28-JUN-2018 18:47
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2859.2	10000	11010	ng	10	15	
Bromofluorobenzene (FID)	A	1847.0	1999.9	900.0	974.5	ng	8	15	

Analyst: JM2 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318258314028 File : 179_028 Time : 29-JUN-2018 02:55
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2979.3	15000	17210	ng	15	15	
Bromofluorobenzene (FID)	A	1847.0	2219.7	900.0	1082	ng	20	15	c+

JM2 06/29/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: JM2 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318258314033 File : 179_033 Time : 29-JUN-2018 06:03
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	3116.8	10000	12010	ng	20	15	c+ ***
Bromofluorobenzene (FID)	A	1847.0	2298.4	900.0	1120	ng	24	15	c+

JM2 06/29/18 : Ok to report high CCVs for ND samples.

JM2 06/29/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: JM2 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

+ = high bias c = CCV

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318259804002 File : 180_002 Time : 29-JUN-2018 10:42
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2951.3	5000	5684	ng	14	15	
Bromofluorobenzene (FID)	A	1847.0	2018.3	900.0	983.4	ng	9	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : STODD IDF : 1.0
 Seqnum : 318259804007 File : 180_007 Time : 29-JUN-2018 13:50
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36189 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Bromofluorobenzene (FID)	A	1847.0	2584.9	900.0	1260	ng	40	15	c+

Analyst: JM2 Date: 07/03/18 Reviewer: Date:

+ = high bias c = CCV

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318259804016 File : 180_016 Time : 29-JUN-2018 20:07
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2828.1	10000	10890	ng	9	15	
Bromofluorobenzene (FID)	A	1847.0	1918.5	900.0	934.8	ng	4	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318259804028 File : 180_028 Time : 30-JUN-2018 03:38
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2861.3	15000	16530	ng	10	15	
Bromofluorobenzene (FID)	A	1847.0	2252.7	900.0	1098	ng	22	15	c+

JM2 07/02/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318259804036 File : 180_036 Time : 30-JUN-2018 08:39
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2797.3	10000	10780	ng	8	15	
Bromofluorobenzene (FID)	A	1847.0	2013.5	900.0	981.1	ng	9	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY SPIKE USER REPORT FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC938139 IDF : 1.0
 Seqnum : 318264090002.1 File : 183_002 Time : 02-JUL-2018 10:08
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2596.0	2904.0	5000	5593	ng	12	15	u
Bromofluorobenzene (FID)	A	1847.0	1778.7	900.0	866.7	ng	-4	15	u

Analyst: JM2 Date: 07/03/18 Reviewer: TKM Date: 07/03/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : STODD IDF : 1.0
 Seqnum : 318264090006 File : 183_006 Time : 02-JUL-2018 12:56
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36189 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Bromofluorobenzene (FID)	A	1847.0	2285.8	900.0	1114	ng	24	15	c+

Analyst: JM2 Date: 07/03/18 Reviewer: TKM Date: 07/03/18

+ = high bias c = CCV

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318264090014 File : 183_014 Time : 02-JUL-2018 18:18
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2850.5	10000	10980	ng	10	15	
Bromofluorobenzene (FID)	A	1847.0	2002.8	900.0	975.9	ng	8	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/03/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318176372

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 05/02/18 11:32
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	122_001	ICAL	CALIB			05/02/18 11:32	1.0	1
002	122_002	ICAL	TVH_14			05/02/18 12:09	1.0	2 1
003	122_003	ICAL	TVH_15			05/02/18 12:47	1.0	3 1
004	122_004	ICAL	TVH_16			05/02/18 13:25	1.0	4 1
005	122_005	ICAL	TVH_17			05/02/18 14:02	1.0	5 1
006	122_006	ICAL	TVH_18			05/02/18 14:40	1.0	5 1
007	122_007	IB				05/02/18 15:17	1.0	1
008	122_008	ICV	TVH			05/02/18 15:55	1.0	6 1
009	122_009	X	ICV			05/02/18 16:33	1.0	6 1
010	122_010	CMARKER	CMARKER			05/02/18 17:10	1.0	7 1

Reviewed by: _____ Date: _____

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S35319

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318258314

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 06/28/18 09:14
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	179_001	X	CMARKER				06/28/18 09:14	1.0	1 2
002	179_002	CCV/LCS	QC937724		Soil	260960	06/28/18 09:51	1.0	3 2
003	179_003	CCV/BS	QC937725		Soil	260960	06/28/18 10:29	1.0	4 2
004	179_004	X	TVH				06/28/18 11:07	1.0	3 2
005	179_005	BSD	QC937726		Soil	260960	06/28/18 11:44	1.0	4 2
006	179_006	IB					06/28/18 12:22	1.0	2
008	179_008	BLANK	QC937729		Soil	260960	06/28/18 13:40	1.0	2
009	179_009	PREPBLK	QC937053	M	Soil	260783	06/28/18 14:17	25.0	2
010	179_010	MSS	300996-016		Soil	260960	06/28/18 15:38	1.0	2
011	179_011	X	TVH				06/28/18 16:16	1.0	3 2
012	179_012	X	CMARKER				06/28/18 16:54	1.0	1 2
013	179_013	CCV	BTXE				06/28/18 17:31	1.0	4 2
014	179_014	CCV	TVH				06/28/18 18:09	1.0	3 2
015	179_015	CCV	TVH				06/28/18 18:47	1.0	3 2
016	179_016	X	CMARKER				06/28/18 19:24	1.0	1 2
017	179_017	PREPBLK	QC937364	M	Soil	260862	06/28/18 20:02	25.0	2
018	179_018	SAMPLE	301003-002		Soil	260960	06/28/18 20:39	1.0	2
019	179_019	SAMPLE	301003-003		Soil	260960	06/28/18 21:17	1.0	2
020	179_020	SAMPLE	301003-004		Soil	260960	06/28/18 21:55	1.0	2
021	179_021	SAMPLE	301003-005		Soil	260960	06/28/18 22:32	1.0	2
022	179_022	SAMPLE	301003-006		Soil	260960	06/28/18 23:10	1.0	2
023	179_023	SAMPLE	301132-001		Soil	260960	06/28/18 23:47	1.0	2
024	179_024	MSS	301132-002		Soil	260960	06/29/18 00:25	1.0	2
025	179_025	SAMPLE	301124-001		Soil	260960	06/29/18 01:03	1.0	2
026	179_026	SAMPLE	301114-005		Soil	260960	06/29/18 01:40	1.0	2
027	179_027	SAMPLE	300966-001	M	Miscell.	260960	06/29/18 02:18	500.0	2
028	179_028	CCV	TVH				06/29/18 02:55	1.0	3 2
029	179_029	X	CMARKER				06/29/18 03:33	1.0	1 2
030	179_030	CCV	BTXE				06/29/18 04:11	1.0	4 2
031	179_031	MS	QC937727		Soil	260960	06/29/18 04:48	1.0	3 2
032	179_032	MSD	QC937728		Soil	260960	06/29/18 05:26	1.0	3 2
033	179_033	CCV	TVH				06/29/18 06:03	1.0	3 2
034	179_034	X	CMARKER				06/29/18 06:41	1.0	1 2
035	179_035	CCV	STODD				06/29/18 07:18	1.0	5 2

JM2 06/28/18 : Voided run 11, all analytes out high, reran for confirmation.

JM2 06/29/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 35.

TKM 06/29/18 : Reviewed prep entry

Reviewed by: JM2 Date: 06/29/18

Standards used: 1=S35319 2=S37192 3=S36848 4=S36185 5=S36189

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318259804

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 06/29/18 10:04
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	180_001	X	CMARKER			06/29/18 10:04	1.0	1 2	
002	180_002	CCV	TVH			06/29/18 10:42	1.0	3 2	
003	180_003	CCV	BTXE			06/29/18 11:19	1.0	4 2	
004	180_004	ICAL	STODD			06/29/18 11:57	1.0	5 2	
005	180_005	LCS	QC937847	Soil	260992	06/29/18 12:34	1.0	3 2	
006	180_006	CCV	BTXE			06/29/18 13:12	1.0	4 2	
007	180_007	CCV	STODD			06/29/18 13:50	1.0	5 2	
008	180_008	BLANK	QC937850	Soil	260992	06/29/18 14:27	1.0	2	1:AVGAS:7-12=16000
009	180_009	IB				06/29/18 15:05	1.0	2	
010	180_010	SAMPLE	301003-001	Soil	260992	06/29/18 16:21	1.0	2	
011	180_011	SAMPLE	301003-007	Soil	260992	06/29/18 16:59	1.0	2	
012	180_012	SAMPLE	301003-008	Soil	260992	06/29/18 17:36	1.0	2	
013	180_013	SAMPLE	301003-009	Soil	260992	06/29/18 18:14	1.0	2	
014	180_014	SAMPLE	301003-010	Soil	260992	06/29/18 18:51	1.0	2	
015	180_015	SAMPLE	301003-011	Soil	260992	06/29/18 19:29	1.0	2	
016	180_016	CCV	TVH			06/29/18 20:07	1.0	3 2	
017	180_017	X	CMARKER			06/29/18 20:44	1.0	1 2	
018	180_018	SAMPLE	301003-012	Soil	260992	06/29/18 21:22	1.0	2	
019	180_019	SAMPLE	301003-013	Soil	260992	06/29/18 21:59	1.0	2	
020	180_020	SAMPLE	301003-014	Soil	260992	06/29/18 22:37	1.0	2	
021	180_021	SAMPLE	301003-015	Soil	260992	06/29/18 23:15	1.0	2	
022	180_022	SAMPLE	301003-016	Soil	260992	06/29/18 23:52	1.0	2	
023	180_023	SAMPLE	301003-017	Soil	260992	06/30/18 00:30	1.0	2	
024	180_024	SAMPLE	301003-018	Soil	260992	06/30/18 01:08	1.0	2	
025	180_025	SAMPLE	301003-019	Soil	260992	06/30/18 01:45	1.0	2	
026	180_026	SAMPLE	301003-020	Soil	260992	06/30/18 02:23	1.0	2	
027	180_027	SAMPLE	301003-021	Soil	260992	06/30/18 03:00	1.0	2	
028	180_028	CCV	TVH			06/30/18 03:38	1.0	3 2	
029	180_029	X	CMARKER			06/30/18 04:15	1.0	1 2	
030	180_030	SAMPLE	301003-022	Soil	260992	06/30/18 04:53	1.0	2	
031	180_031	SAMPLE	301003-023	Soil	260992	06/30/18 05:31	1.0	2	
032	180_032	MSS	301107-002	Soil	260992	06/30/18 06:08	1.0	2	
033	180_033	SAMPLE	301107-003	Soil	260992	06/30/18 06:46	1.0	2	
034	180_034	MS	QC937848	Soil	260992	06/30/18 07:23	1.0	3 2	
035	180_035	MSD	QC937849	Soil	260992	06/30/18 08:01	1.0	3 2	
036	180_036	CCV	TVH			06/30/18 08:39	1.0	3 2	
037	180_037	X	CMARKER			06/30/18 09:16	1.0	1 2	

JM2 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 37.

Reviewed by: JM2 Date: 07/02/18

Standards used: 1=S35319 2=S37192 3=S36848 4=S36185 5=S36189

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318264090

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 07/02/18 09:30
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	183_001	X	CMARKER			07/02/18 09:30	1.0	1 2	
002	183_002	CCV/BS	QC938139	Soil	261058	07/02/18 10:08	1.0	3 2	
003	183_003	CCV	BTXE			07/02/18 10:45	1.0	4 2	
004	183_004	CCV	STODD			07/02/18 11:23	1.0	5 2	
005	183_005	BSD	QC938140	Soil	261058	07/02/18 12:01	1.0	3 2	
006	183_006	CCV	STODD			07/02/18 12:56	1.0	5 2	
007	183_007	IB				07/02/18 13:34	1.0	2	
008	183_008	BLANK	QC938118	Soil	261058	07/02/18 14:11	1.0	2	
009	183_009	SAMPLE	301003-013	Soil	261058	07/02/18 15:10	1.0	2	
010	183_010	SAMPLE	301143-001	Soil	261058	07/02/18 15:48	1.0	2	
011	183_011	SAMPLE	301107-002	Soil	261058	07/02/18 16:25	1.0	2	
012	183_012	MS	QC937848	Soil	260992	07/02/18 17:03	1.0	3 2	
013	183_013	MSD	QC937849	Soil	260992	07/02/18 17:41	1.0	3 2	
014	183_014	CCV	TVH			07/02/18 18:18	1.0	3 2	
015	183_015	X	CMARKER			07/02/18 18:56	1.0	1 2	
016	183_016	SAMPLE	301147-002	Soil	261058	07/02/18 19:33	1.0	2	
017	183_017	MSS	301147-003	Soil	261058	07/02/18 20:11	1.0	2	
018	183_018	SAMPLE	301147-004	Soil	261058	07/02/18 20:49	1.0	2	
019	183_019	SAMPLE	301147-005	Soil	261058	07/02/18 21:26	1.0	2	
020	183_020	SAMPLE	301147-006	Soil	261058	07/02/18 22:04	1.0	2	
021	183_021	SAMPLE	301147-007	Soil	261058	07/02/18 22:42	1.0	2	
022	183_022	SAMPLE	301119-001	Soil	261058	07/02/18 23:19	1.0	2	1:AVGAS:7-12=15000
023	183_023	SAMPLE	301119-002	Soil	261058	07/02/18 23:57	1.0	2	1:AVGAS:7-12=16000
024	183_024	SAMPLE	301119-003	Soil	261058	07/03/18 00:34	1.0	2	1:AVGAS:7-12=18000
025	183_025	SAMPLE	301119-004	Soil	261058	07/03/18 01:12	1.0	2	
026	183_026	CCV	TVH			07/03/18 01:50	1.0	3 2	
027	183_027	X	CMARKER			07/03/18 02:27	1.0	1 2	
028	183_028	SAMPLE	301170-001	Soil	261058	07/03/18 03:05	1.0	2	
029	183_029	SAMPLE	301170-002	Soil	261058	07/03/18 03:42	1.0	2	
030	183_030	SAMPLE	301170-003	Soil	261058	07/03/18 04:20	1.0	2	
031	183_031	MS	QC938116	Soil	261058	07/03/18 04:58	1.0	3 2	
032	183_032	MSD	QC938117	Soil	261058	07/03/18 05:35	1.0	3 2	
033	183_033	CCV	TVH			07/03/18 06:13	1.0	3 2	
034	183_034	X	CMARKER			07/03/18 06:50	1.0	1 2	

JM2 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 34.

Reviewed by: JM2 Date: 07/03/18

Standards used: 1=S35319 2=S37192 3=S36848 4=S37506 5=S36189

Sample	ID	Weight (g)	Meth Lot #	Meth vol. (mL)	Bal ID	5 ^{ml} pipette lot	Comments & Initials
Prep Blk	-	5.00	173605TF	5.0	B-8	06-15-2017	PAW 6/10/18
300519-2	A	0.53	↓	↓	B-6	↓	↓ oil layer on water JAZ for PAW 6/11/18
300400-1	A	0.98	↓	↓	↓	↓	JAZ 6/11/18
↓ -2	↓	0.94	↓	↓	↓	↓	↓
↓ -3	↓	1.20	↓	↓	↓	↓	↓
Prepblk	-	5.00	↓	↓	↓	↓	↓
300768-1	A	4.96	173605TF	5.0	B-6	06-15-2017	JAZ 6/18/18
Prepblk	-	5.00	↓	↓	↓	↓	↓
300920-3	B	5.06	173605TF	5.0	B-6	09-08-2017	JAZ 6/22/18
↓ -13	↓	5.10	↓	↓	↓	↓	↓
Prepblk	-	5.00	↓	↓	↓	↓	↓
Prepblk	-	5.00	173605TF	5.0	B-6	09-08-2017	JAZ 6/25/18
Prepblk	-	5.00	↓	↓	↓	↓	JAZ 6/26/18
300939-9	B	4.93	173605TF	5.0	B-6	09-08-2017	↓
300966-1	C	2.48	↓	↓	↓	↓	↓
Prepblk	-	5.00	173605TF	5.0	B-6	09-08-2017	JAZ 6/27/18
Prepblk	-	5.00	↓	↓	↓	↓	JAZ 6/28/18

Continued on Page

Read and Understood By

Signed

Date

Signed

Date

TITLE	PROJECT	DATE
Continued from page		
Sample	ID	Weight (g)
300985-2	A	1.03 ^{0.93} JMR 6/27 0.93
-3		0.90
-4		0.91
-5		0.92
-6		1.03
-7		0.90
-1 MS		1.02
-1 MSD		1.0 ^{1.09} JMR 6/27 1.09
300966-1	C MeOH	10/5006 No JMR 6/28/18
300996-16	A	0.92
301044-1 MS		0.99
-1 MSD		0.96
300978-7	C	33.19 - 30.559 - 0.36 = 2.27
301003-2	B	37.30 - 30.465 - 0.36 = 6.48
-3	L	37.34 - 30.558 = 6.42
-4	A	37.40 - 30.568 = 6.47
-5		37.94 - 30.832 = 6.75
-6	L	37.45 - 30.864 = 6.23
301132-1	A	0.93
-2		0.99
- MS		0.93
- MSD		1.00
301114-5	A	1.00
301124-1	L	0.96
301106-1	A	0.95
-2		0.93
-2 MS		0.93
-2 MSD		0.93
300978-7	D	33.55 - 30.648 - 0.36 = 2.54
301140-5	A	1.07 No JMR 6/29/18 Corp (1-4)
301080-1		0.94
-2		0.94
-4		0.96
-5		1.00
-1 MS		0.95
-1 MSD		0.99
301003-1	B	37.34 - 30.575 - 0.36 = 6.41
-7	A	37.25 - 30.733 = 6.16
-8		37.44 - 30.595 = 6.49
-9		36.14 - 30.834 = 4.95
-10		36.89 - 30.641 = 5.89
-11		36.45 - 30.422 = 5.67
-12		36.49 - 30.511 = 5.62
SIGNATURE	DATE	Continued to page
DISCLOSED TO AND UNDERSTOOD BY	DATE	PROPRIETARY INFORMATION

TITLE PROJECT DATE

Continued from page		ID	Weight (g)		Nails	Comments: Initials	Bal ID
Sample							
301003-13	A		37.61 - 30.850 - 0.36	= 6.40	No	JMz 6/29/18	B-6
-14			36.74 - 30.872	= 5.51			
-15			37.61 - 30.744	= 6.51			
-16			37.62 - 30.712	= 6.55			
-17			36.94 - 30.692	= 5.94			
-18			37.33 - 30.848	= 6.12			
-19			37.07 - 30.621	= 6.09			
-20			36.55 - 30.670	= 5.52			
-21			37.10 - 30.726	= 6.01			
-22			37.70 - 30.774	= 6.60			
-23			37.32 - 30.691	= 6.27			
301107-2	D		39.68 - 35.440 - 0.36	= 3.88	Yes		
-2	MS	E	41.90 - 35.260	= 6.28			
-2	MSD	F	40.95 - 35.110	= 5.48			
-3	JM 6/29 MSB	B	39.22 - 35.120	= 3.74			
301076-1	A		38.09 - 30.672 - 0.36	= 7.06	No		
-2			38.32 - 30.620	= 7.34			
-3			37.82 - 30.577	= 6.88			
-4			38.33 - 30.620	= 7.35			
-5			37.94 - 30.506	= 7.07			
-6			38.33 - 30.686	= 7.28			
-7			37.61 - 30.542	= 6.71			
-8			38.64 - 30.668	= 7.61			
-9			37.64 - 30.539	= 6.74			
-10			37.80 - 30.705	= 6.74			
-11			37.82 - 30.686	= 6.77			
-12			37.27 - 30.642	= 6.27			
-13			37.96 - 30.671	= 6.93			
-14			36.88 - 30.510	= 6.01			
-15			37.99 - 30.644	= 6.99			
-16			37.46 - 30.784	= 6.32			
-17			36.45 - 30.367	= 5.72			
-18			38.57 - 31.101	= 7.11			
-19			38.06 - 30.546	= 7.15			
-20			37.72 - 30.577	= 6.78			
301137-3	A		0.90			corp 137-(1,2)	
301076-21			37.49 - 30.637 - 0.36	= 6.49			
-22			38.90 - 30.636	= 7.90			
-23			38.02 - 30.742	= 6.92			
301104-1	A		38.04 - 30.437 - 0.36	= 7.24			
-2			37.93 - 30.619	= 6.95			
-3			37.71 - 30.674	= 6.68			
-4			37.70 - 30.322	= 7.02			

SIGNATURE _____ DATE _____

DISCLOSED TO AND UNDERSTOOD BY _____ DATE _____

PROPRIETARY INFORMATION

Continued to page

TITLE PROJECT DATE

Continued from page		ID	Weight (S)	Moisture	Comments: Initials	Bal. ID
Sample						
301104-5	A		37.47 - 30.750 - 0.36 = 6.36	No	JML 6/29/18	B-6
-6			38.40 - 30.716 = 7.32			
-7			38.11 - 30.590 = 7.16			
-8			38.75 - 30.675 = 7.72			
-9			38.59 - 30.579 = 7.65			
-10			38.14 - 30.784 = 7.00			
-11			38.51 - 30.756 = 7.39			
-12			37.58 - 30.716 = 6.50			
301003-13	B		36.97 - 30.629 - 0.36 = 5.98	No	JML 7/2/18	B-6
301107-2	L		40.90 - 35.14 - 0.36 = 5.40	Yes		
-2	MS	K	40.75 - 35.18 = 5.21			
-2	MSD	J	42.00 - 35.24 = 6.90			
301076-1	B		37.92 - 30.584 - 0.36 = 6.98	No		
-2			37.08 - 30.658 = 6.06			
-3			37.59 - 30.272 = 6.96			
-4			38.45 - 30.758 = 7.33			
-5			38.40 - 30.487 = 7.55			
-6			38.39 - 30.517 = 7.51			
-7			38.05 - 30.664 = 7.03			
-8			38.33 - 30.700 = 7.27			
-9			37.91 - 30.914 = 6.64			
-10			37.65 - 30.644 = 6.65			
-11			37.69 - 30.637 = 6.69			
-12			37.07 - 31.226 = 5.48			
-13			37.64 - 30.543 = 6.74			
-14			38.56 - 30.937 = 7.26			
-15			35.76 - 30.477 = 4.92			
-16			37.97 - 30.613 = 7.00			
-20			37.56 - 30.621 = 6.58			
-21			37.45 - 30.913 = 6.18			
301104-13	A		38.30 - 30.664 - 0.36 = 7.28			
-14			37.69 - 30.554 = 6.78			
301119-1	A		0.95			
-2			0.93			
-3			0.93			
-4			0.96			
301193-1	A		35.42 - 30.774 - 0.56 = 4.09			
301197-2			40.77 - 34.81 - 0.36 = 5.60	Yes		
-3			41.50 - 35.38 = 5.76			
-4			40.91 - 35.11 = 5.44			
-5			40.06 - 35.18 = 4.52			
-6			40.42 - 35.35 = 4.71			
-7			42.10 - 35.77 = 5.97			

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

Laboratory Job Number 301003

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Soil

Total Extractable Hydrocarbons			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/25/18
Units:	mg/Kg	Received:	06/25/18
Basis:	dry	Prepared:	06/28/18
Diln Fac:	1.000		

Field ID: BR11-1GW01[3] Moisture: 16%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-001 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.99 J Y	1.2	0.36
Motor Oil C24-C36	5.0 J Z	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	89	59-130

Field ID: BR11-1GW01[5] Moisture: 16%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-002 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.50 J Y	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	97	59-130

Field ID: BR11-1GW01[7] Moisture: 15%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-003 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.45 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	92	59-130

Field ID: BR11-1GW01[10] Moisture: 15%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-004 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.56 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	88	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/25/18
Units:	mg/Kg	Received:	06/25/18
Basis:	dry	Prepared:	06/28/18
Diln Fac:	1.000		

Field ID: BR11-1GW01[15] Moisture: 15%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-005 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.51 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	83	59-130

Field ID: BR11-1GW01[20] Moisture: 14%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-006 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.65 J Y	1.2	0.36
Motor Oil C24-C36	1.9 J Z	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	95	59-130

Field ID: BR11-1GW01[25] Moisture: 18%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-007 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Diesel C10-C24	5.4 Y Z	1.2	0.37
Motor Oil C24-C36	17	6.1	1.8

Surrogate	%REC	Limits
o-Terphenyl	85	59-130

Field ID: BR11-1GW01[30] Moisture: 17%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-008 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.92 J Y	1.2	0.37
Motor Oil C24-C36	2.7 J	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	76	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/25/18
Units:	mg/Kg	Received:	06/25/18
Basis:	dry	Prepared:	06/28/18
Diln Fac:	1.000		

Field ID: BR11-1GW01[35] Moisture: 9%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-009 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.65 J Y	1.1	0.33
Motor Oil C24-C36	ND	5.5	1.7

Surrogate	%REC	Limits
o-Terphenyl	95	59-130

Field ID: BR11-1GW01[40] Moisture: 13%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-010 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.0 J Y	1.2	0.35
Motor Oil C24-C36	ND	5.8	1.7

Surrogate	%REC	Limits
o-Terphenyl	94	59-130

Field ID: BR11-1GW01[45] Moisture: 8%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-011 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.58 J Y	1.1	0.33
Motor Oil C24-C36	2.7 J	5.4	1.6

Surrogate	%REC	Limits
o-Terphenyl	85	59-130

Field ID: BR11-1GW01[49] Moisture: 11%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-012 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.60 J Y	1.1	0.35
Motor Oil C24-C36	ND	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	98	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/25/18
Units:	mg/Kg	Received:	06/25/18
Basis:	dry	Prepared:	06/28/18
Diln Fac:	1.000		

Field ID: DUP06252018-01 Moisture: 16%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-013 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.2 Y Z	1.2	0.36
Motor Oil C24-C36	3.5 J	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	91	59-130

Field ID: BR11-1SB011[3] Moisture: 16%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-014 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.3 Y Z	1.2	0.37
Motor Oil C24-C36	8.1	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	101	59-130

Field ID: BR11-1SB011[5] Moisture: 16%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-015 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.3 Y Z	1.2	0.37
Motor Oil C24-C36	4.2 J	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	97	59-130

Field ID: BR11-1SB011[7] Moisture: 16%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-016 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.64 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	93	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/25/18
Units:	mg/Kg	Received:	06/25/18
Basis:	dry	Prepared:	06/28/18
Diln Fac:	1.000		

Field ID: BR11-1SB011[10] Moisture: 13%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-017 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Diesel C10-C24	4.1 Y Z	1.2	0.35
Motor Oil C24-C36	15	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	99	59-130

Field ID: BR11-1SB011[15] Moisture: 15%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-018 Analyzed: 06/29/18

Analyte	Result	RL	MDL
Diesel C10-C24	2.0 Y Z	1.2	0.36
Motor Oil C24-C36	5.8 J	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	89	59-130

Field ID: BR11-1SB011[20] Moisture: 13%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-019 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	5.8 Y	1.2	0.35
Motor Oil C24-C36	31	5.8	1.7

Surrogate	%REC	Limits
o-Terphenyl	84	59-130

Field ID: BR11-1SB011[25] Moisture: 17%
 Type: SAMPLE Batch#: 260938
 Lab ID: 301003-020 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.1 J Y	1.2	0.37
Motor Oil C24-C36	5.1 J	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	72	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/25/18
Units:	mg/Kg	Received:	06/25/18
Basis:	dry	Prepared:	06/28/18
Diln Fac:	1.000		

Field ID: BR11-1SB011[30] Moisture: 18%
 Type: SAMPLE Batch#: 260936
 Lab ID: 301003-021 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.78 J Y	1.2	0.37
Motor Oil C24-C36	1.9 J	6.1	1.9

Surrogate	%REC	Limits
o-Terphenyl	74	59-130

Field ID: BR11-1SB011[35] Moisture: 6%
 Type: SAMPLE Batch#: 260936
 Lab ID: 301003-022 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.51 J Y	1.1	0.32
Motor Oil C24-C36	ND	5.3	1.6

Surrogate	%REC	Limits
o-Terphenyl	85	59-130

Field ID: DUP06252018-02 Moisture: 14%
 Type: SAMPLE Batch#: 260936
 Lab ID: 301003-023 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.42 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	80	59-130

Type: BLANK Batch#: 260936
 Lab ID: QC937640 Analyzed: 06/28/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	96	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC937641	Batch#:	260936
Matrix:	Soil	Prepared:	06/28/18
Units:	mg/Kg	Analyzed:	06/28/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	45.90	92	56-137

Surrogate	%REC	Limits
o-Terphenyl	102	59-130

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	260936
MSS Lab ID:	300941-001	Sampled:	06/22/18
Matrix:	Soil	Received:	06/22/18
Units:	mg/Kg	Prepared:	06/28/18
Basis:	as received	Analyzed:	06/28/18
Diln Fac:	5.000		

Type: MS Lab ID: QC937642

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	317.1	50.13	330.9	28 NM	52-128

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

Type: MSD Lab ID: QC937643

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.19	339.8	45 NM	52-128	3	42

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

DO= Diluted Out

NM= Not Meaningful: Sample concentration > 4X spike concentration

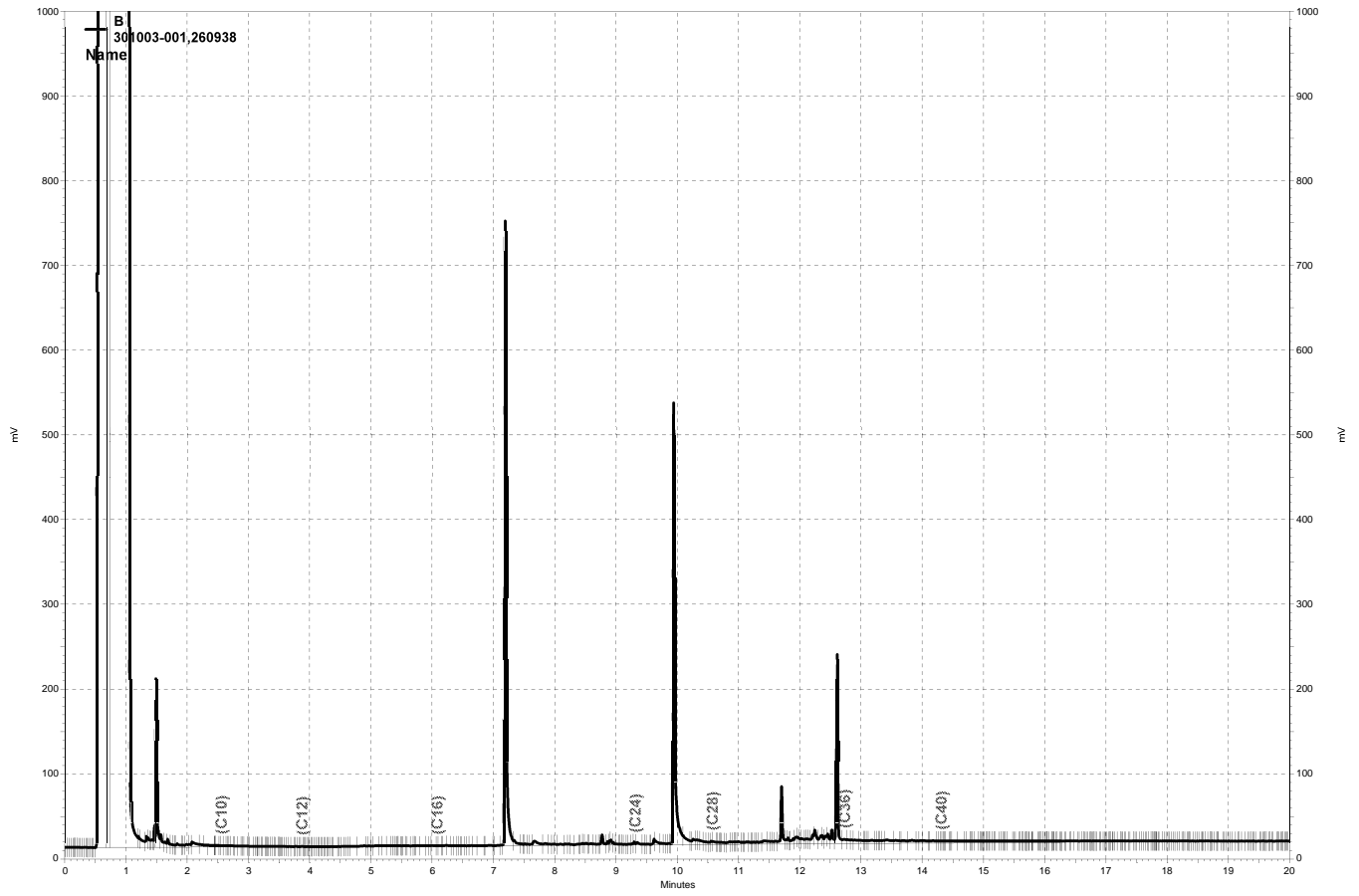
RPD= Relative Percent Difference

Batch QC Report

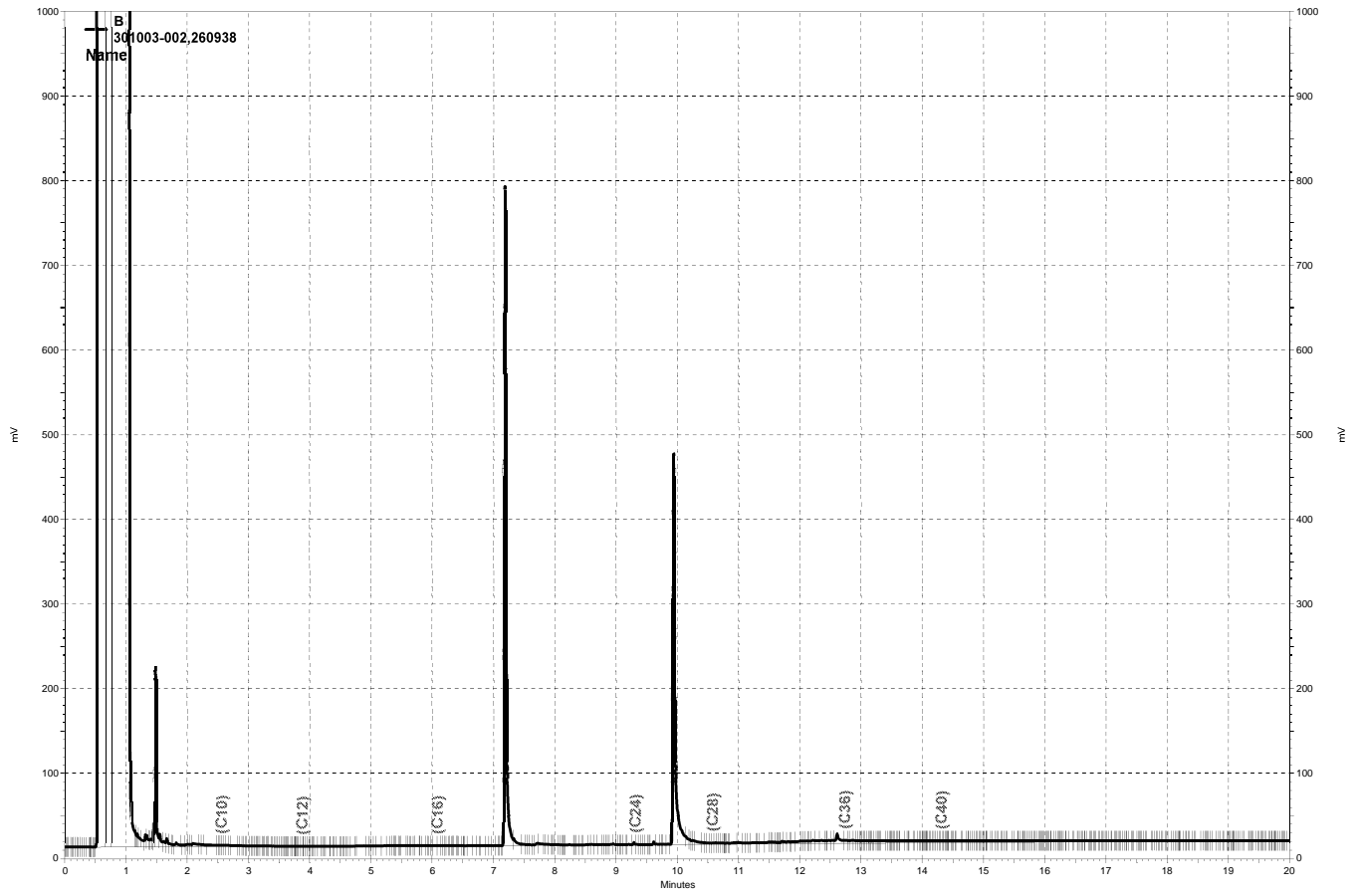
Total Extractable Hydrocarbons			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC937651	Batch#:	260938
Matrix:	Soil	Prepared:	06/28/18
Units:	mg/Kg	Analyzed:	06/28/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	48.75	98	56-137

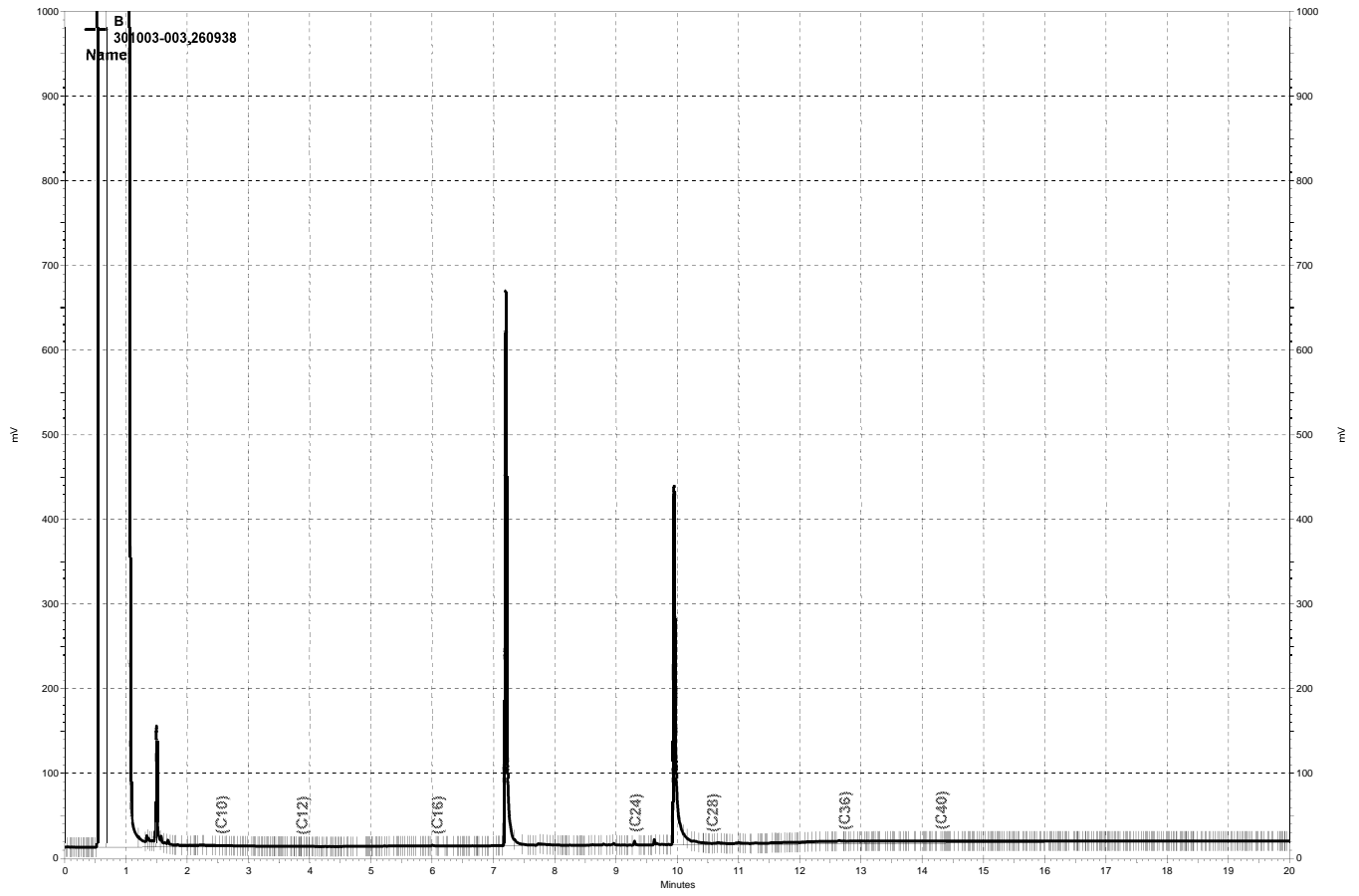
Surrogate	%REC	Limits
o-Terphenyl	103	59-130



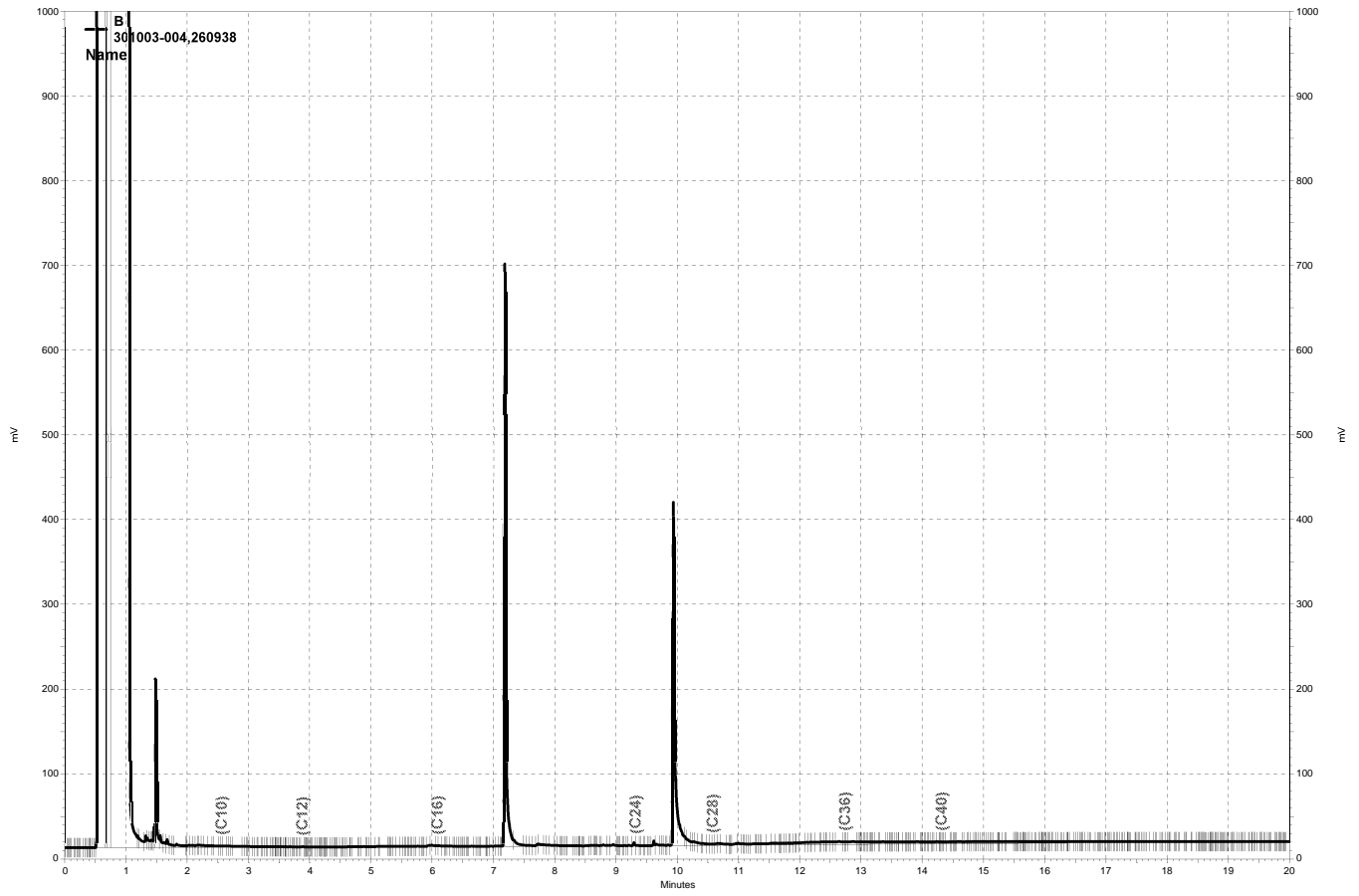
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\179b018, B



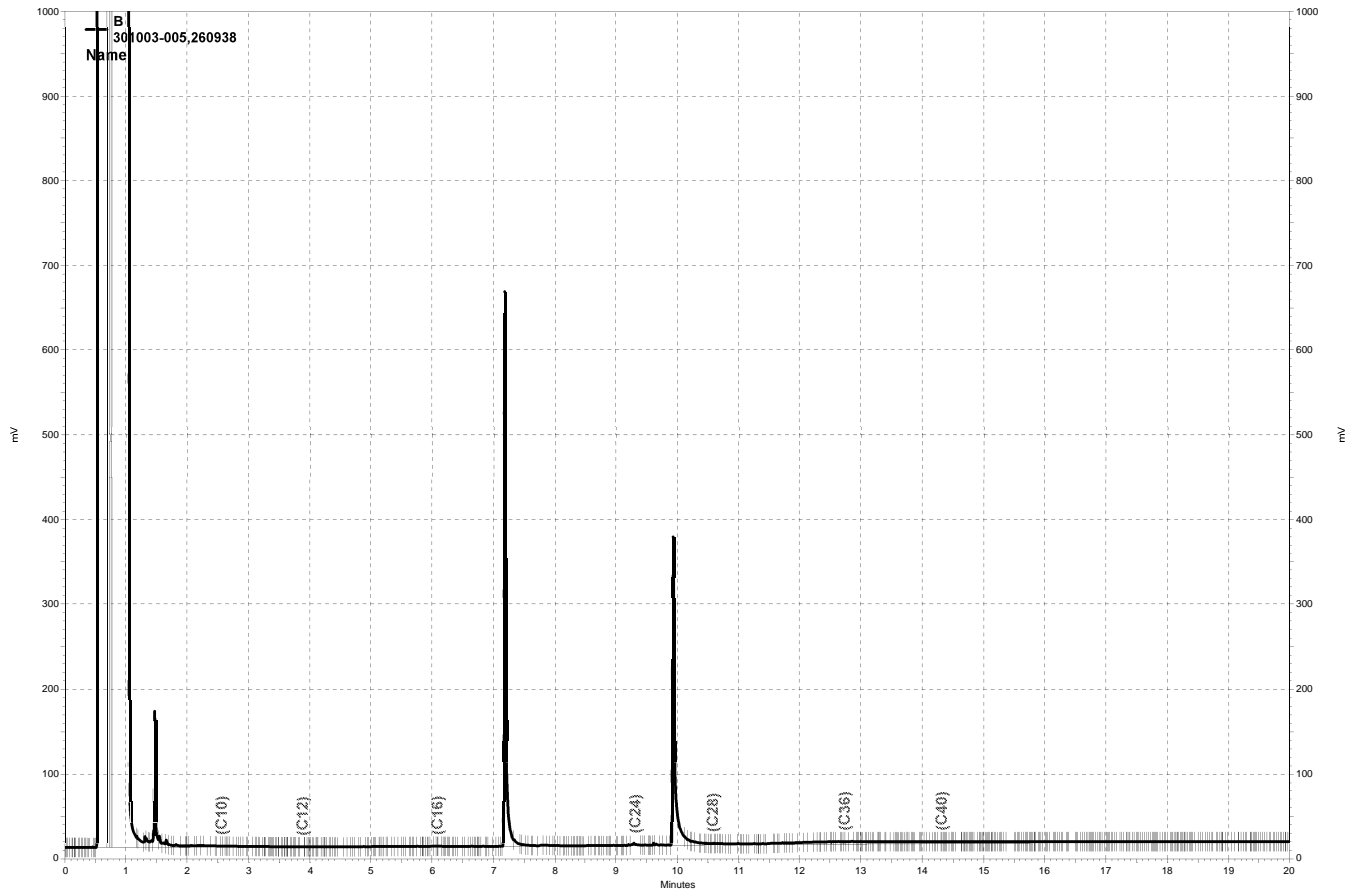
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\179b019, B



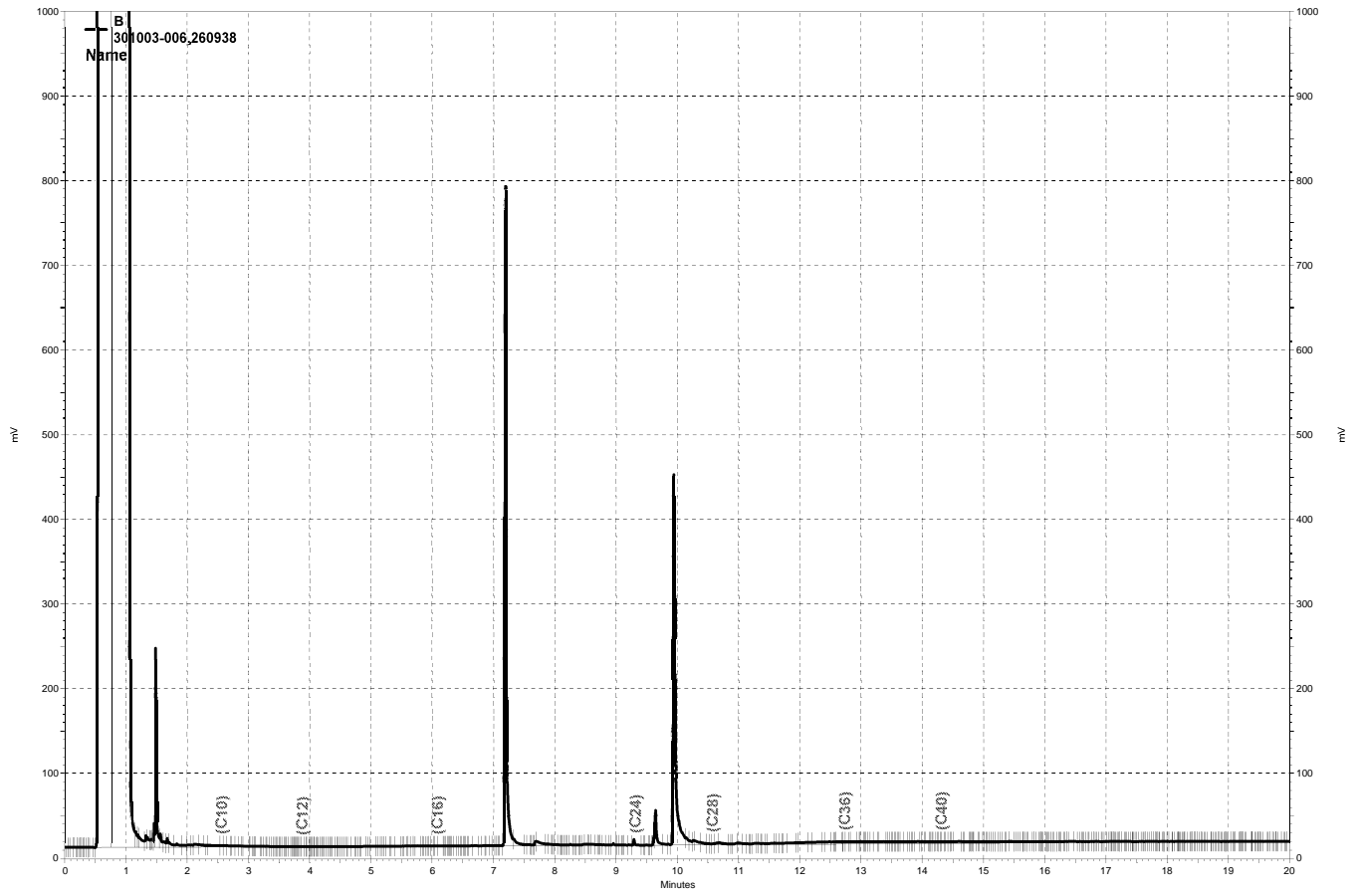
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\179b021, B



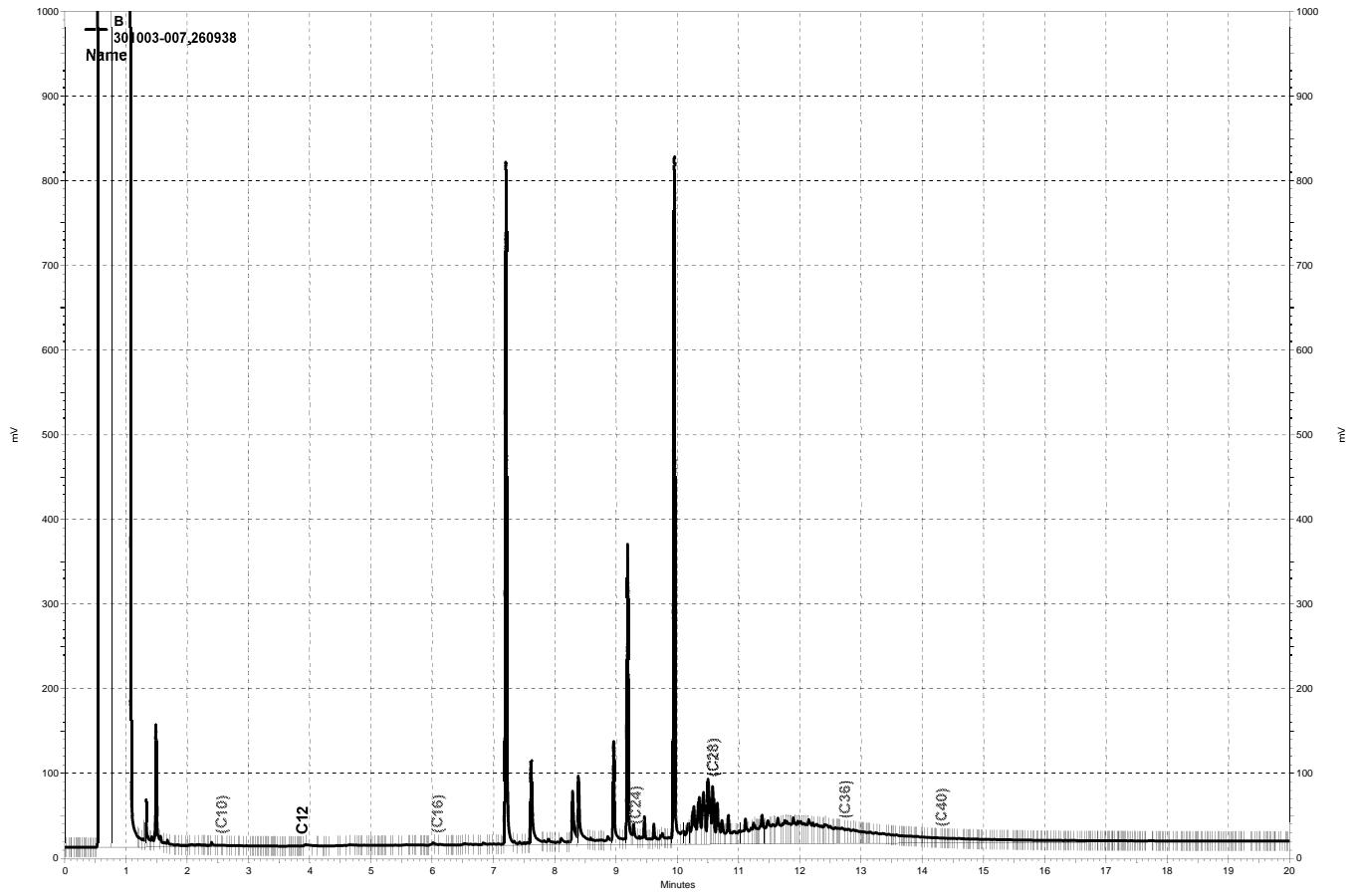
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\179b022, B



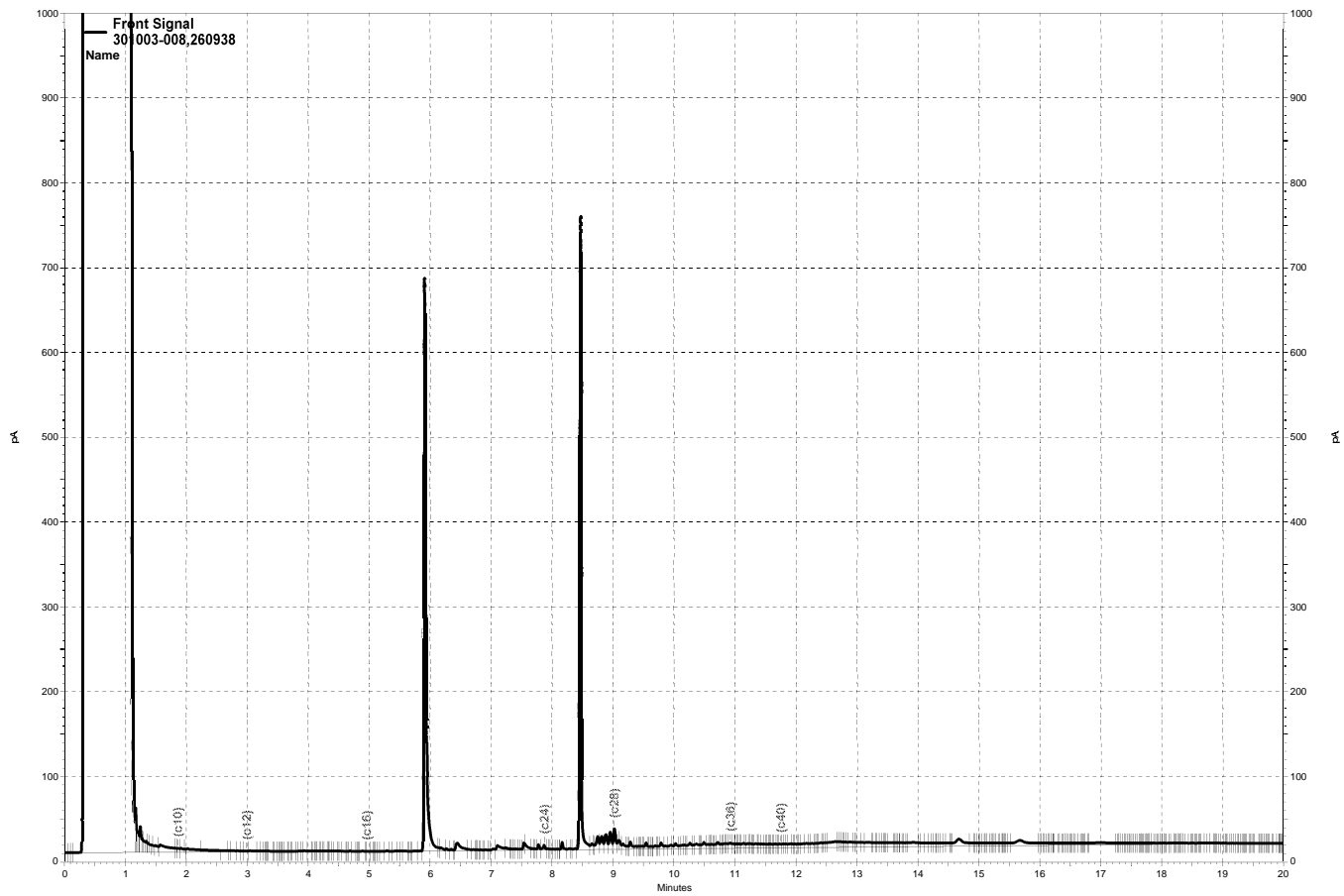
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\179b023, B



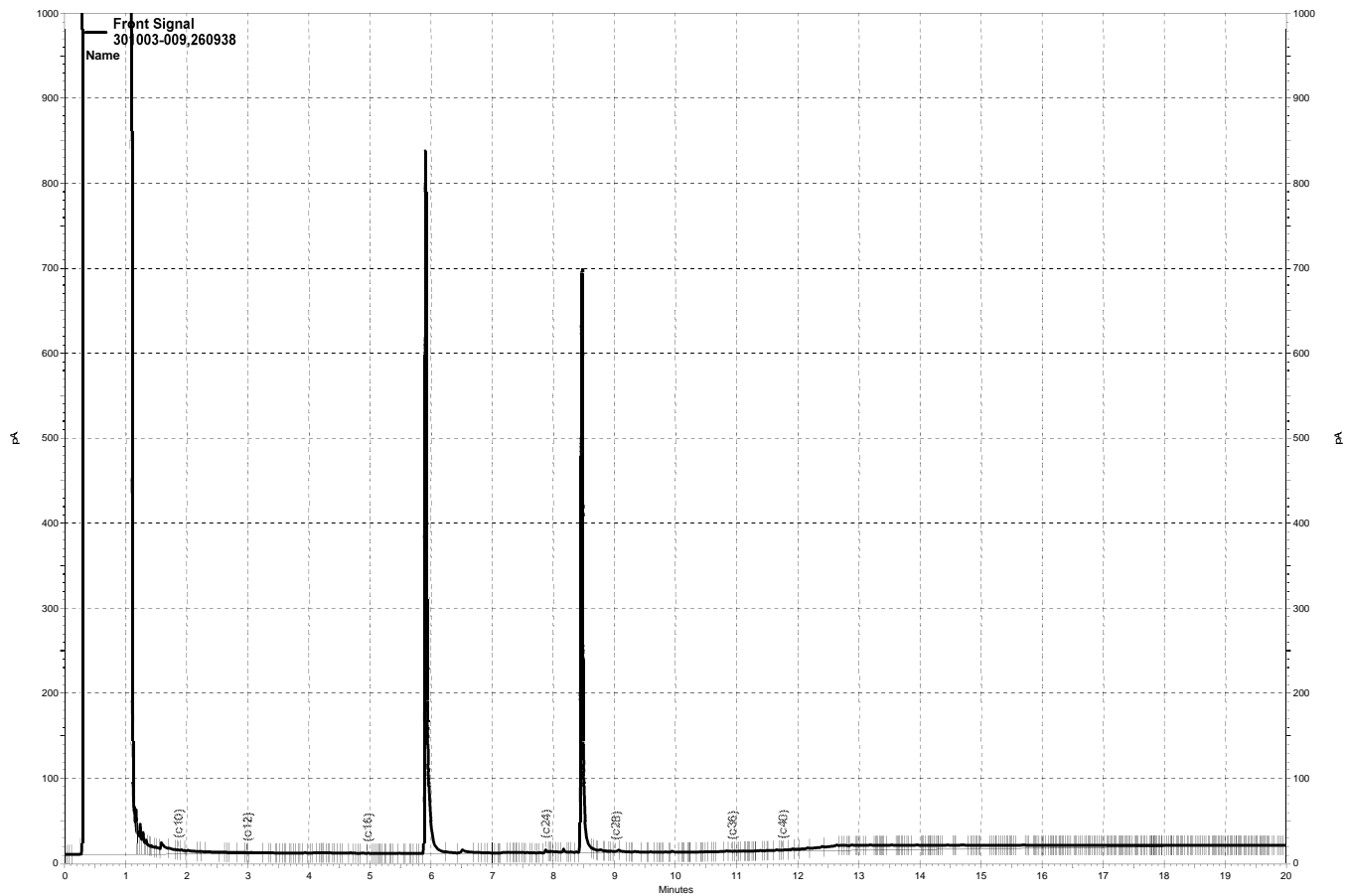
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\179b024, B



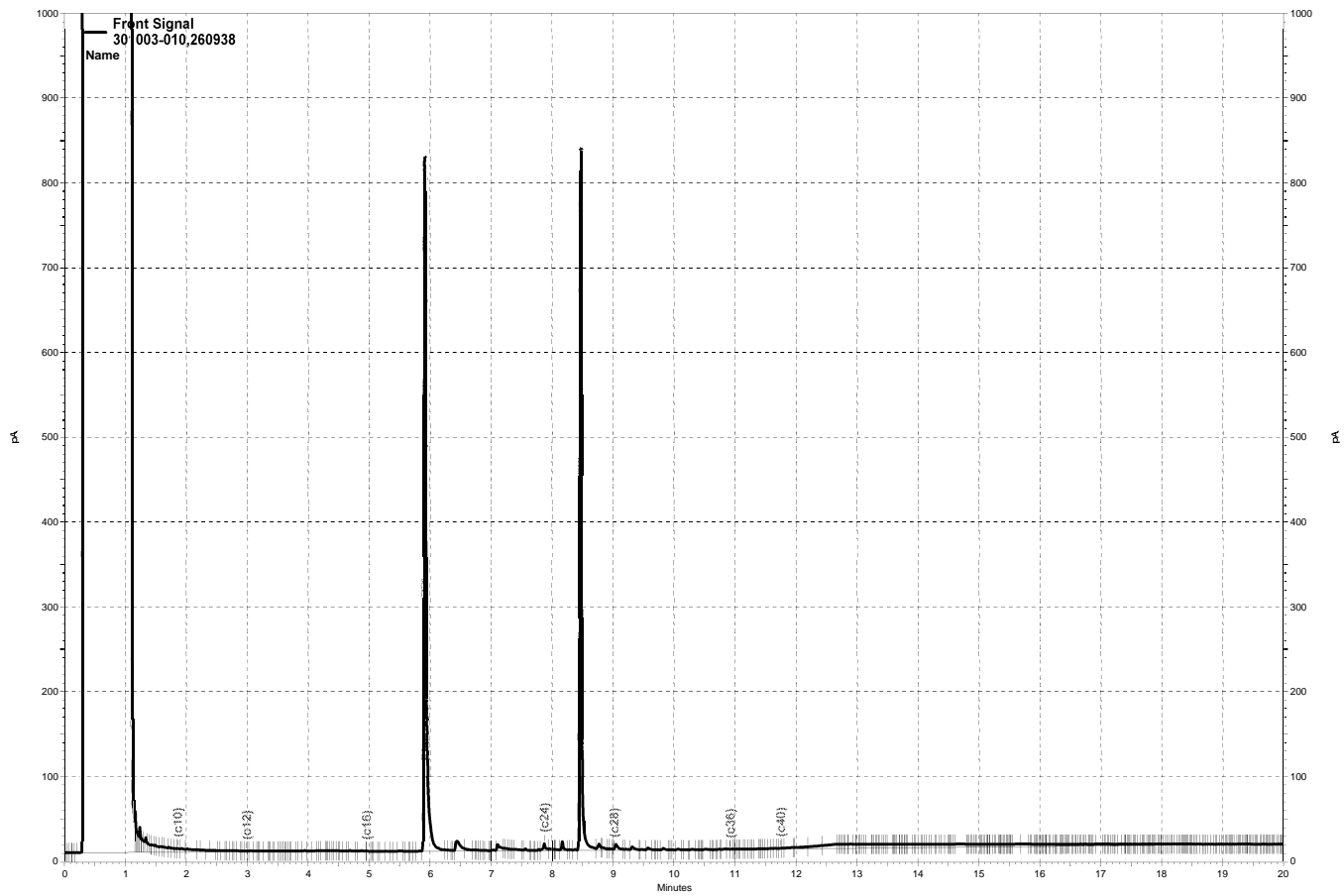
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\179b025, B



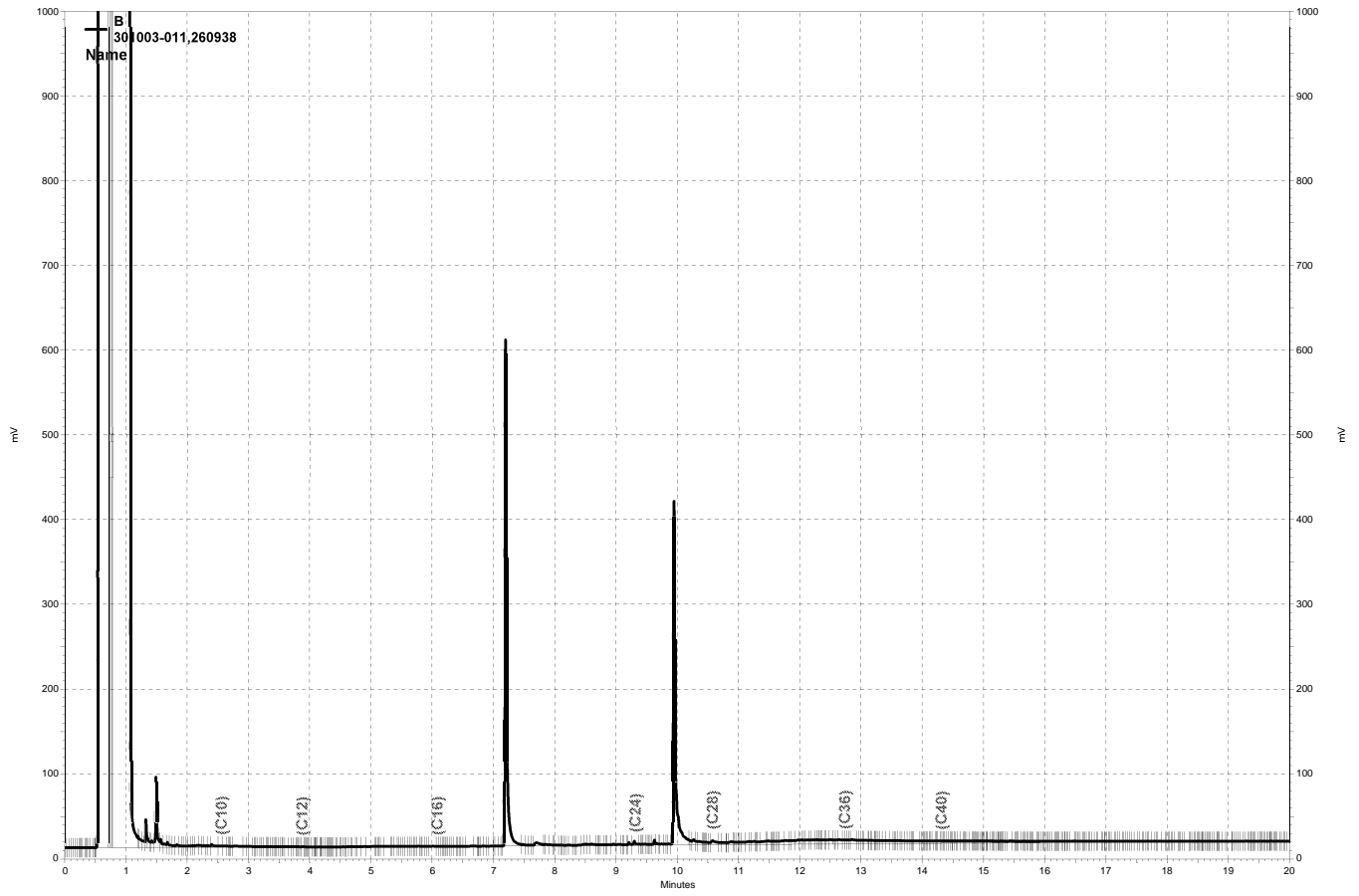
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\178a076.dat, Front Signal



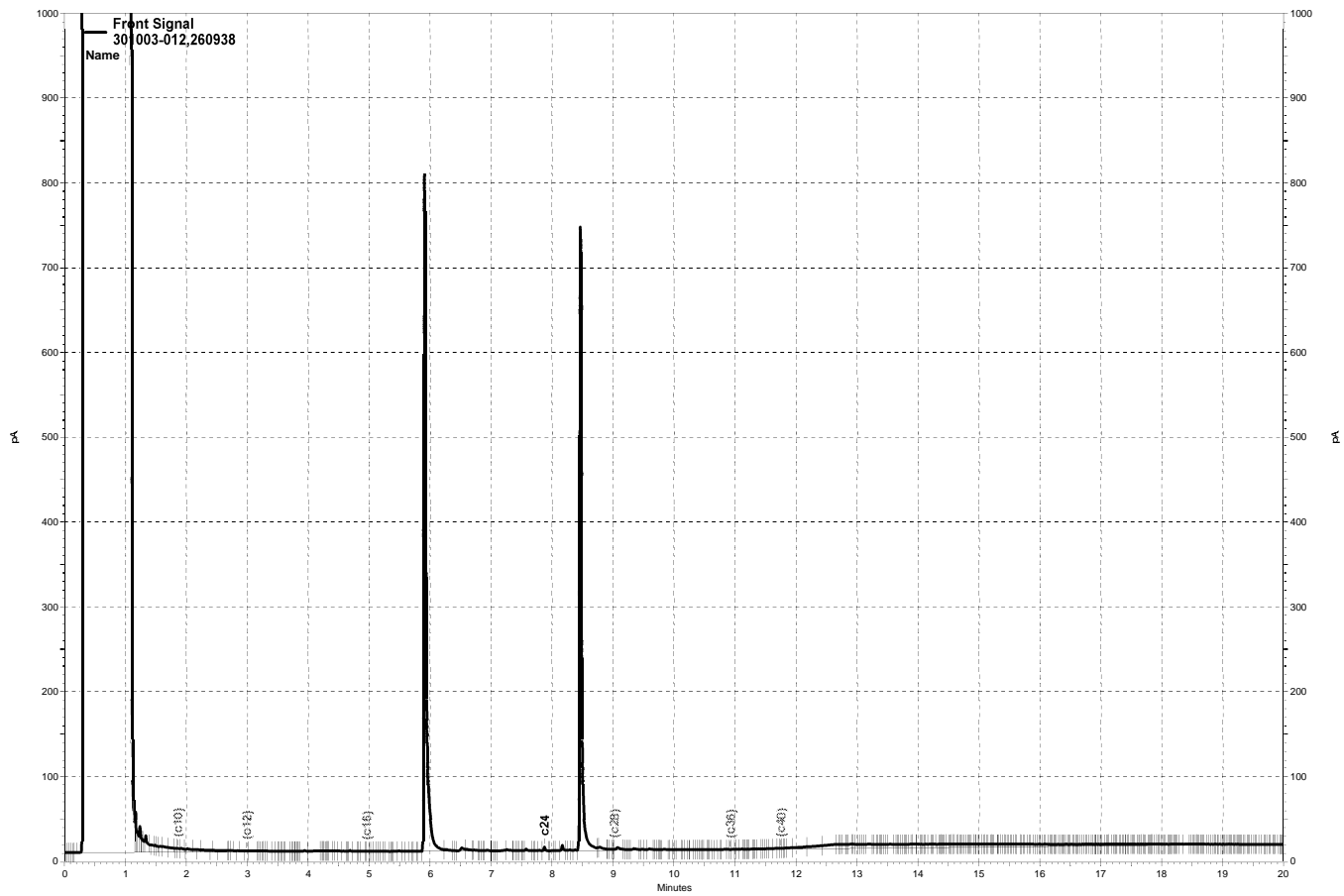
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\178a077.dat, Front Signal



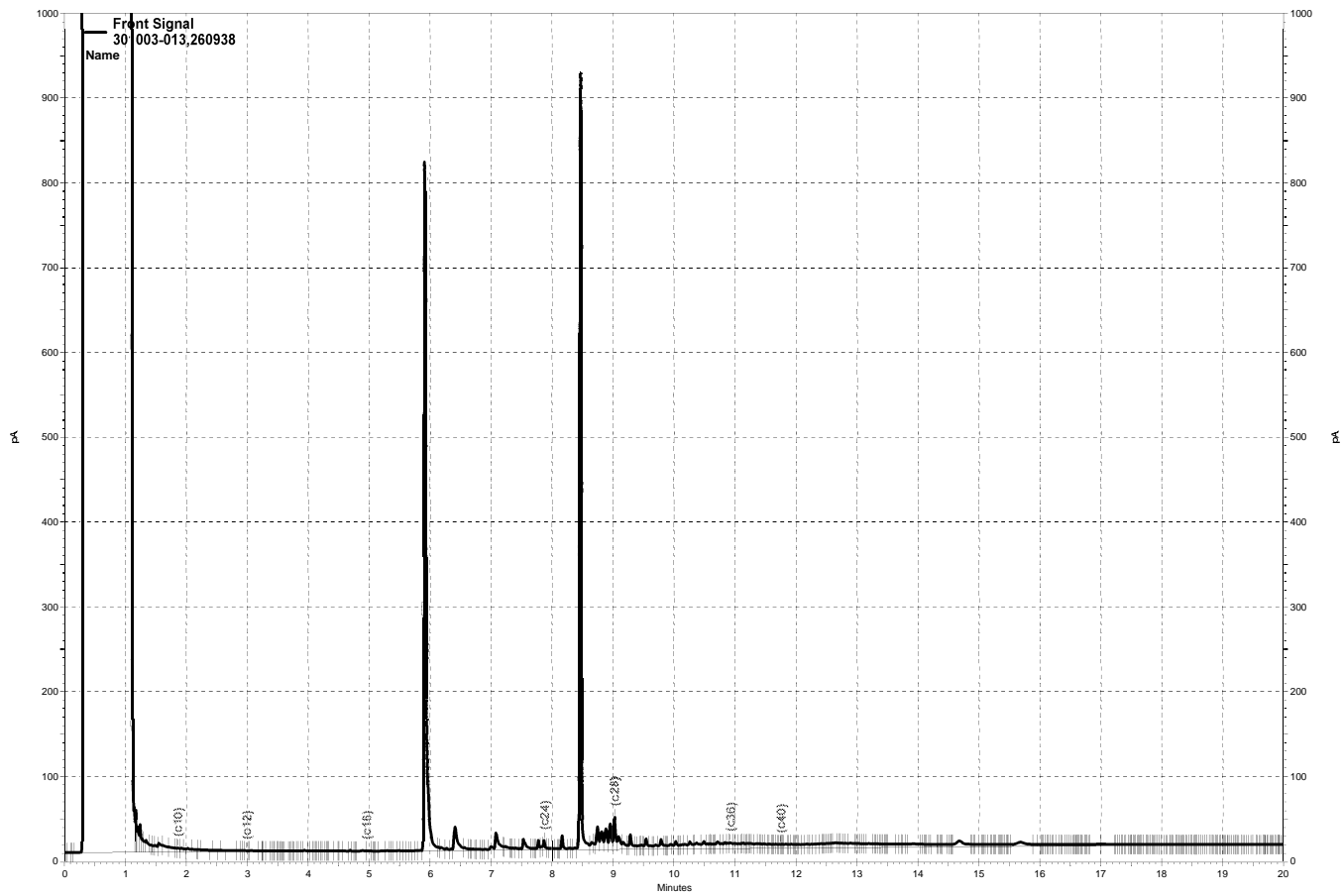
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\178a078.dat, Front Signal



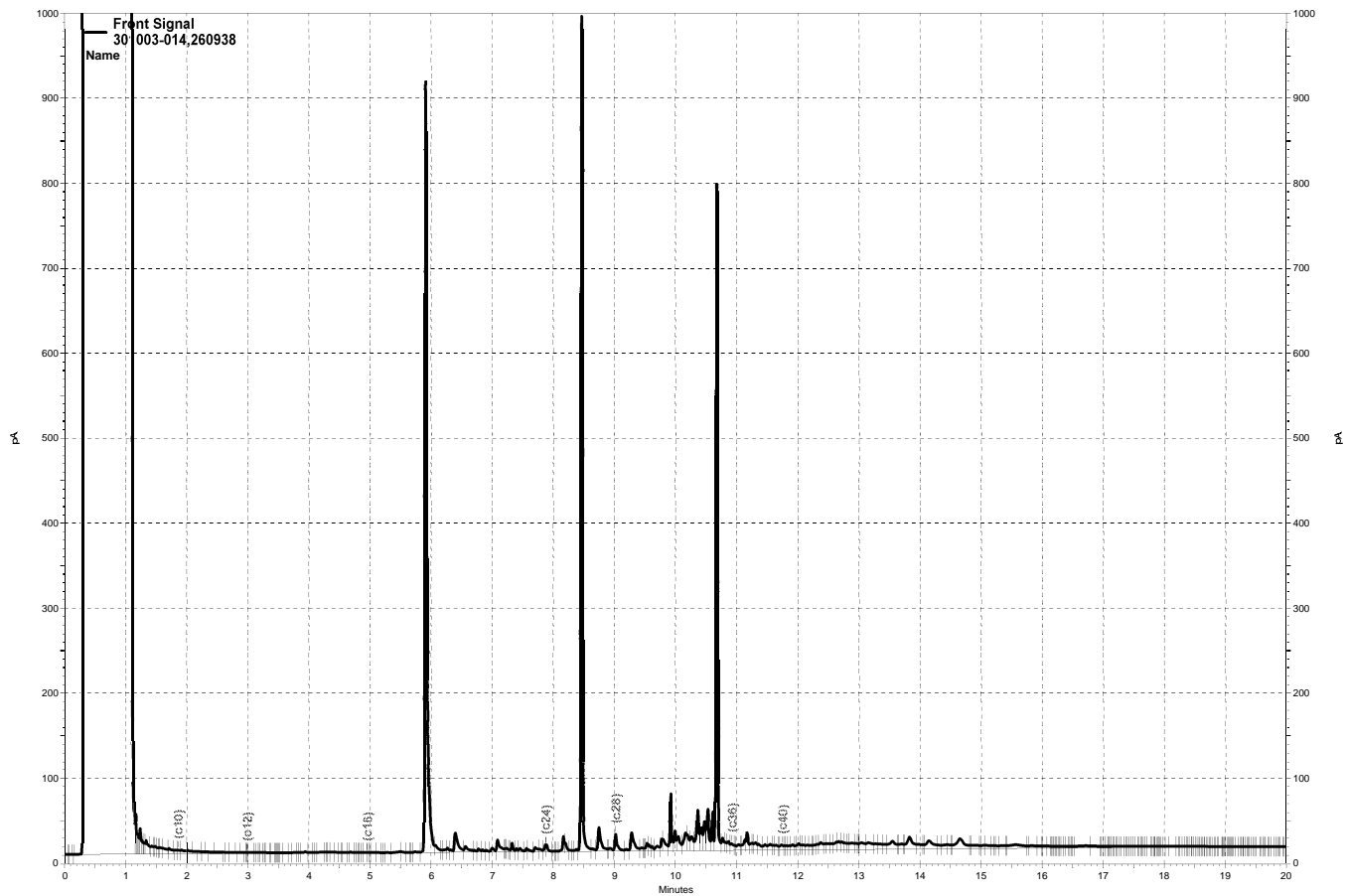
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\179b015, B



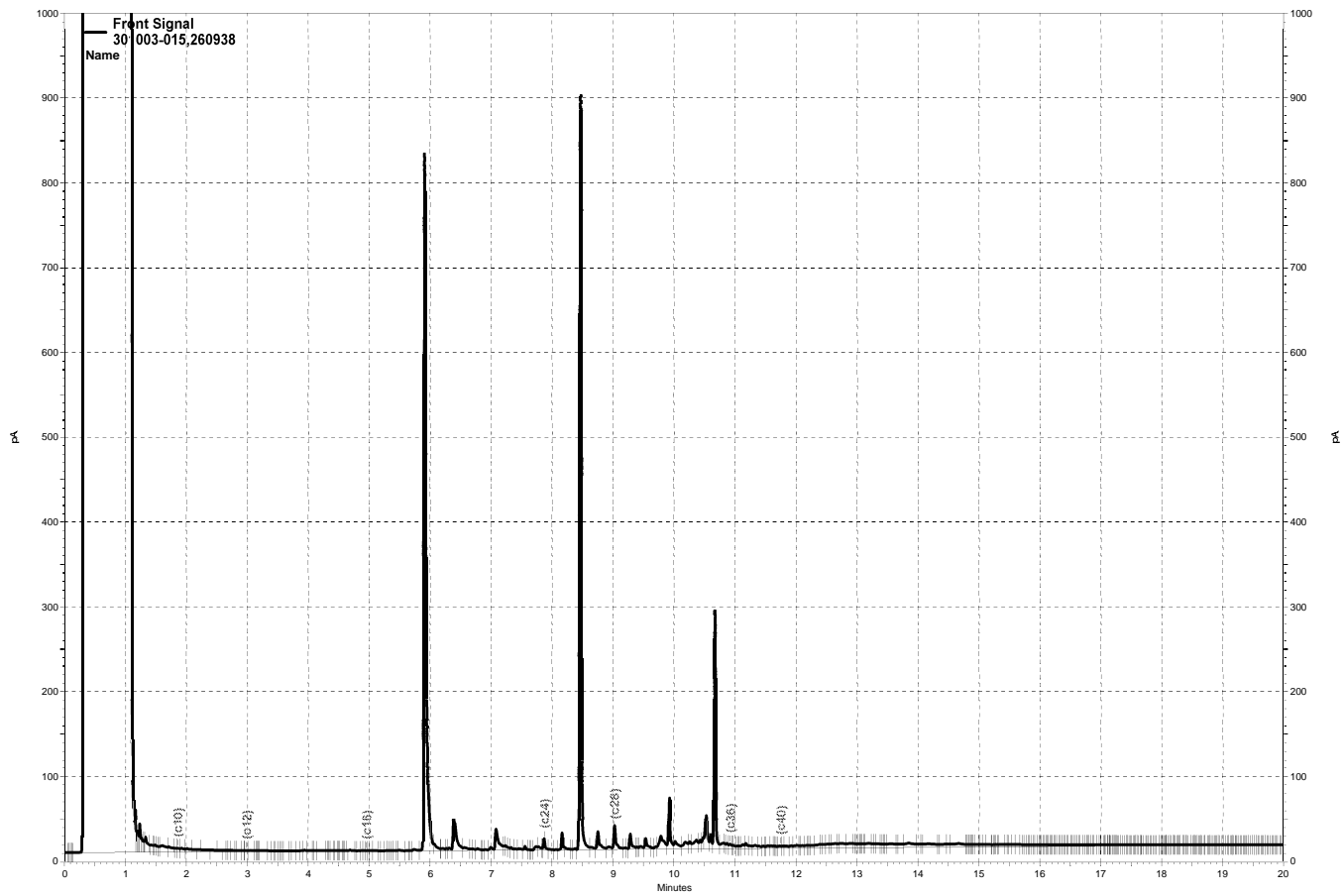
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\178a079.dat, Front Signal



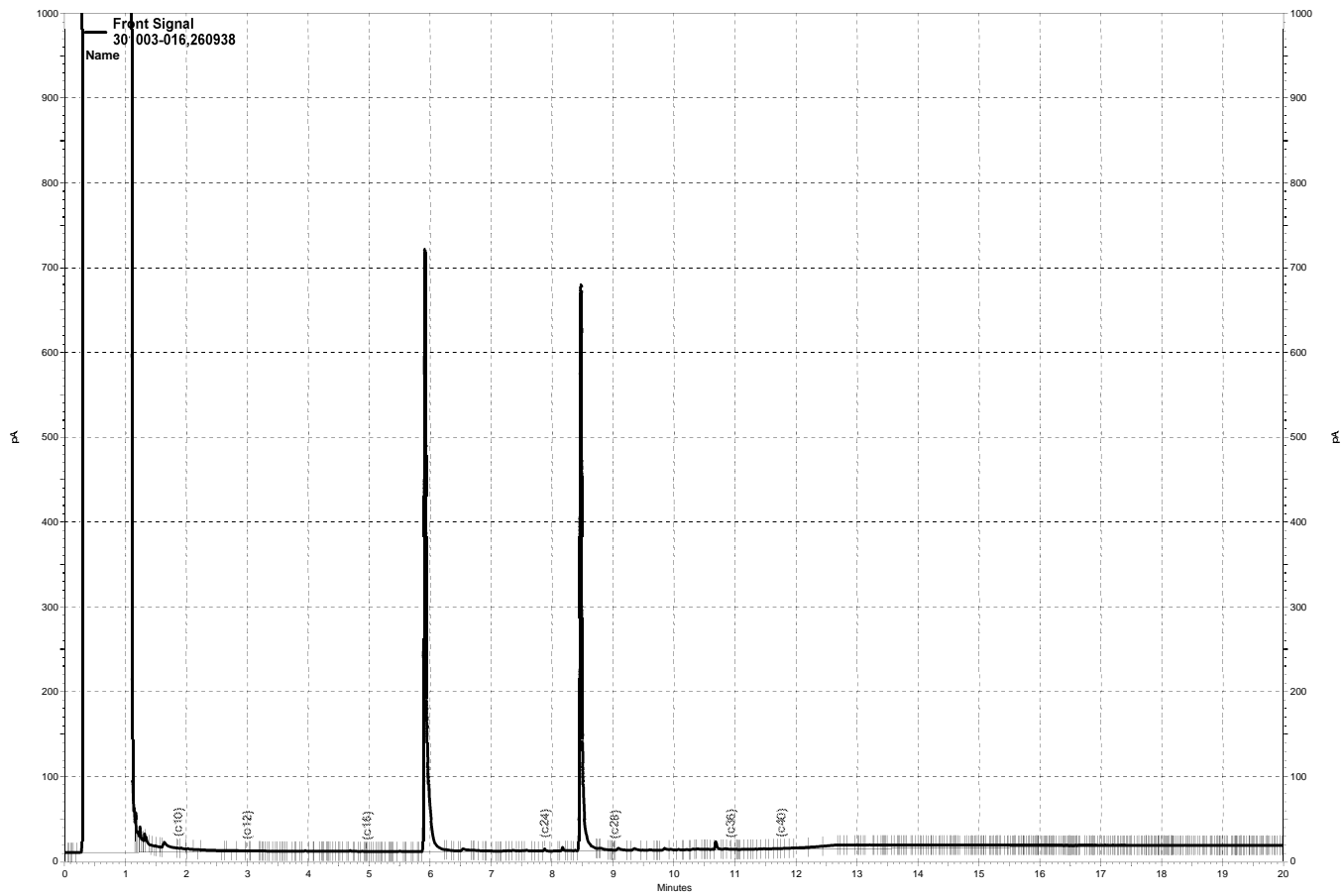
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\178a080.dat, Front Signal



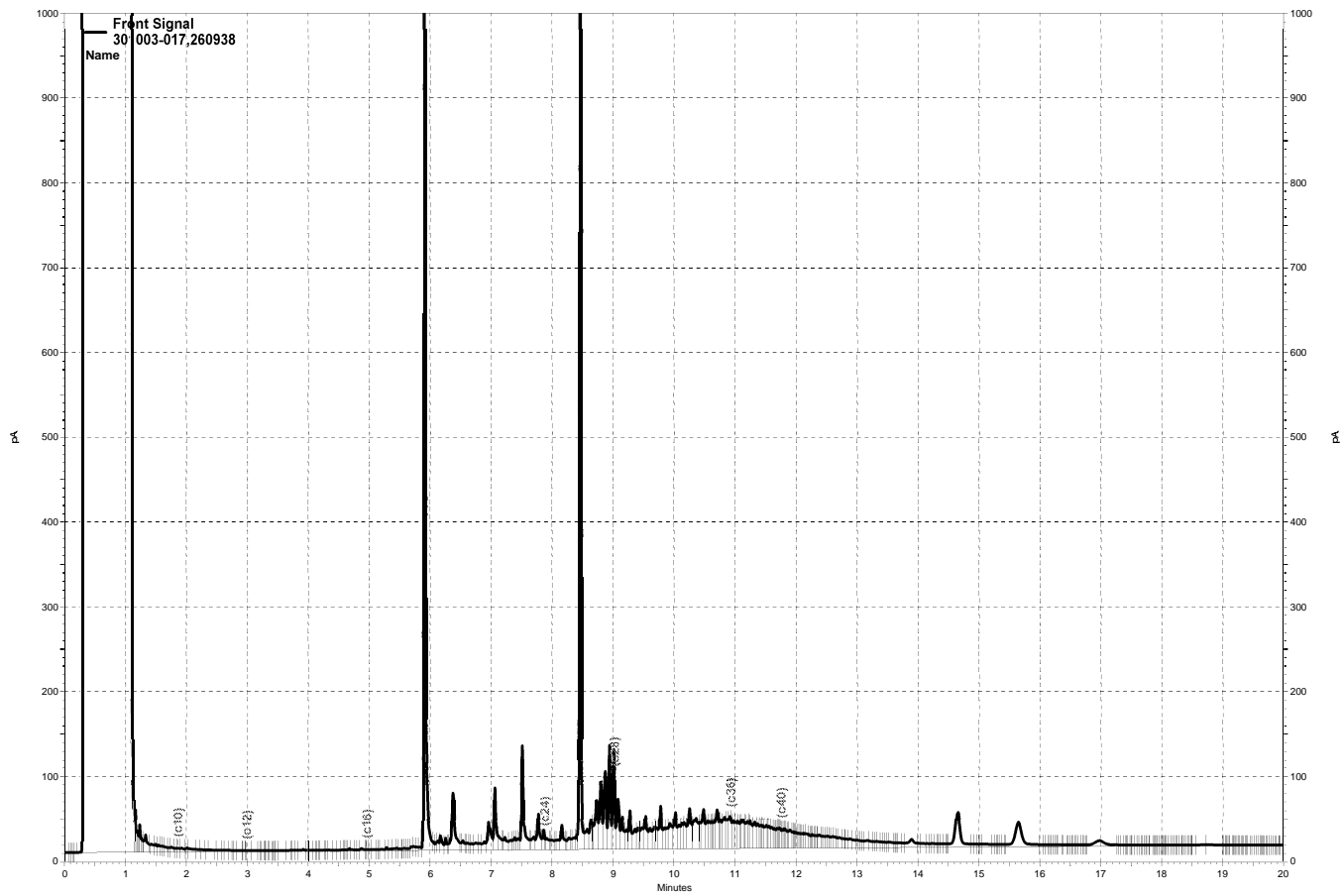
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\178a082.dat, Front Signal



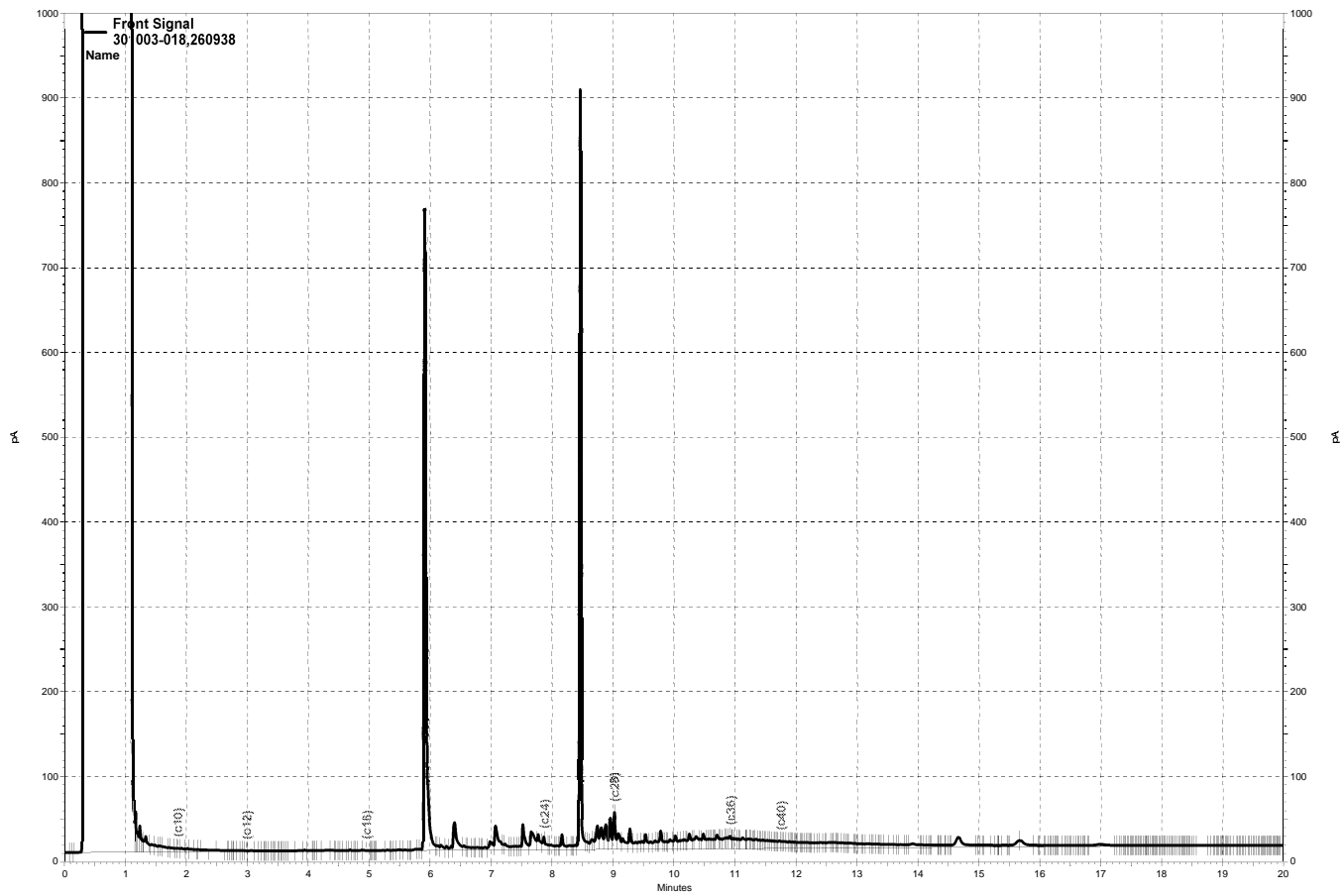
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\178a083.dat, Front Signal



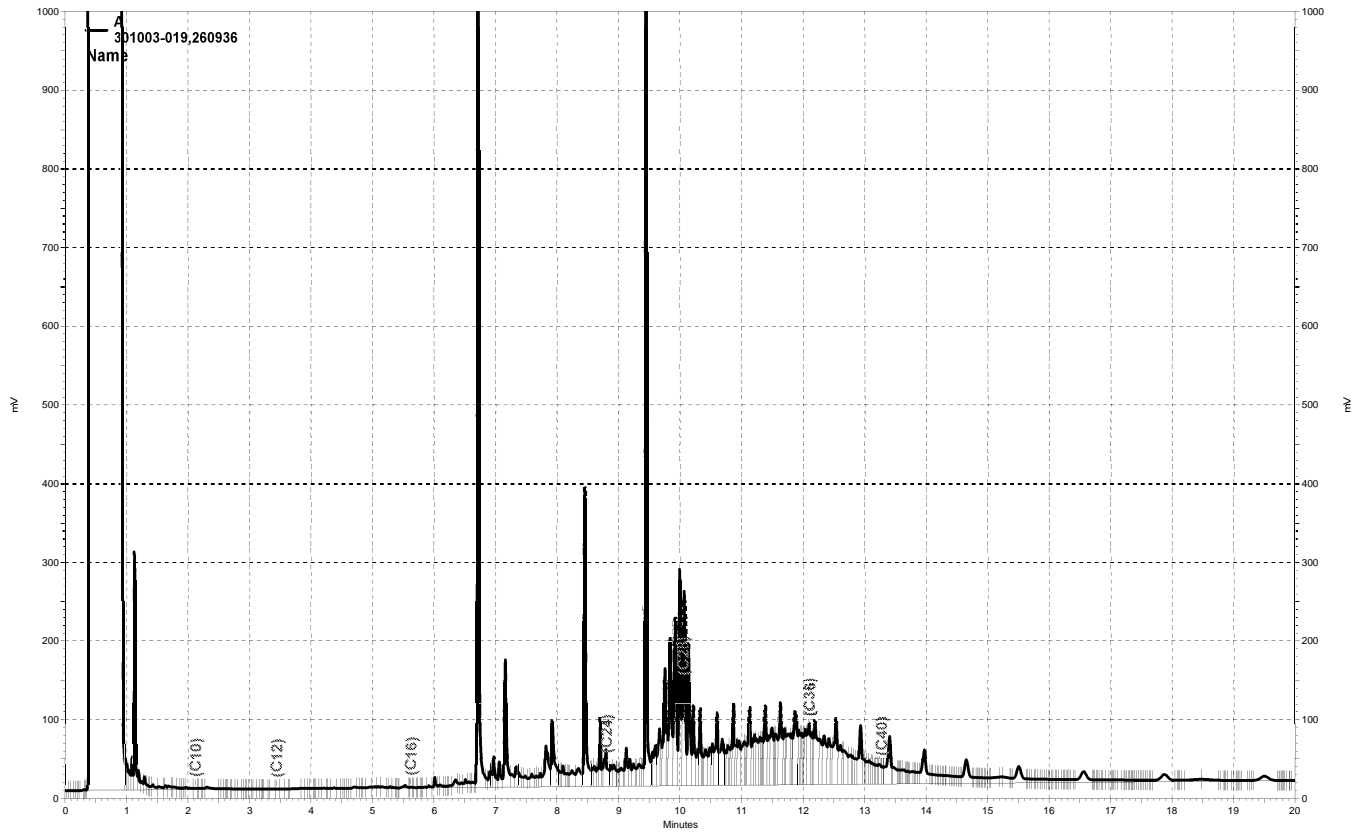
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\178a084.dat, Front Signal



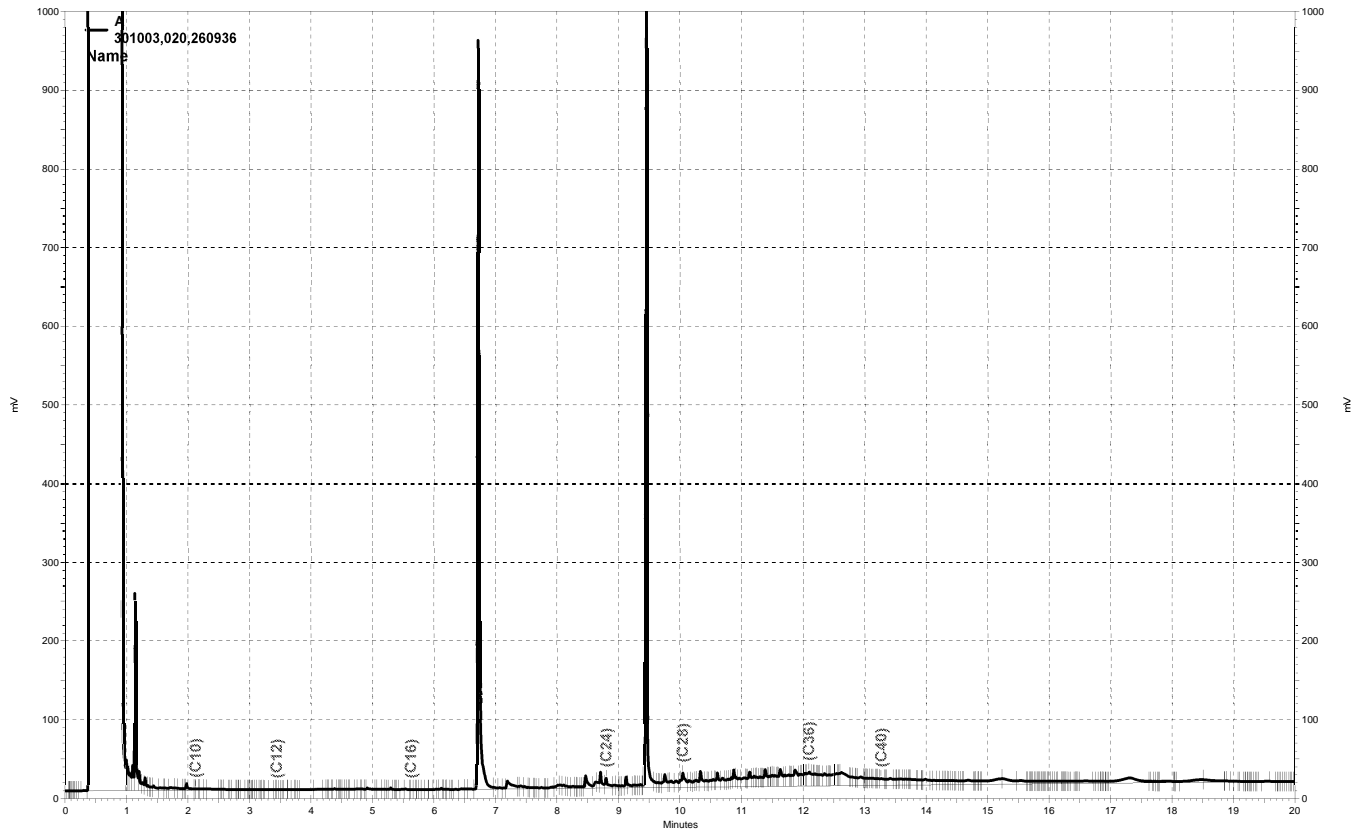
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\178a085.dat, Front Signal



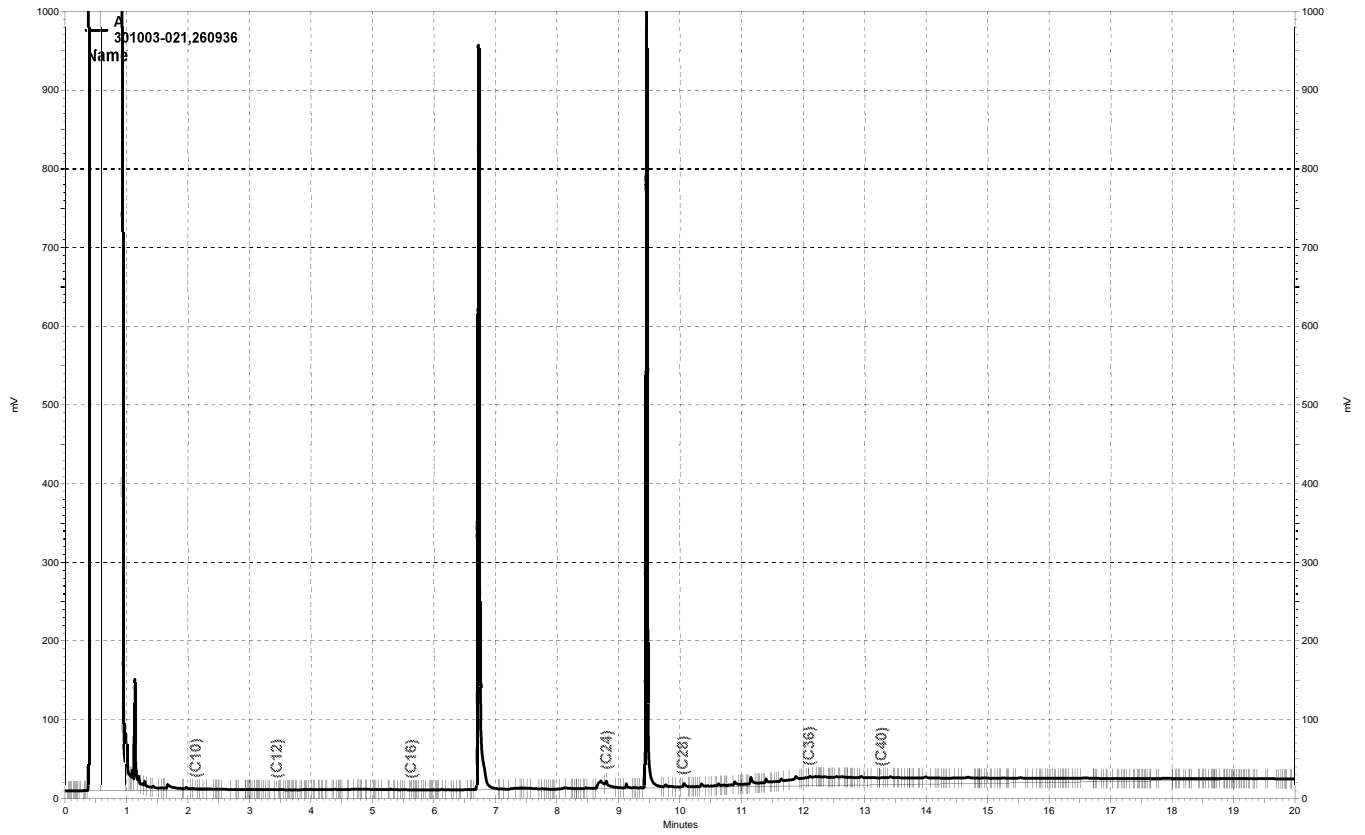
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\178a086.dat, Front Signal



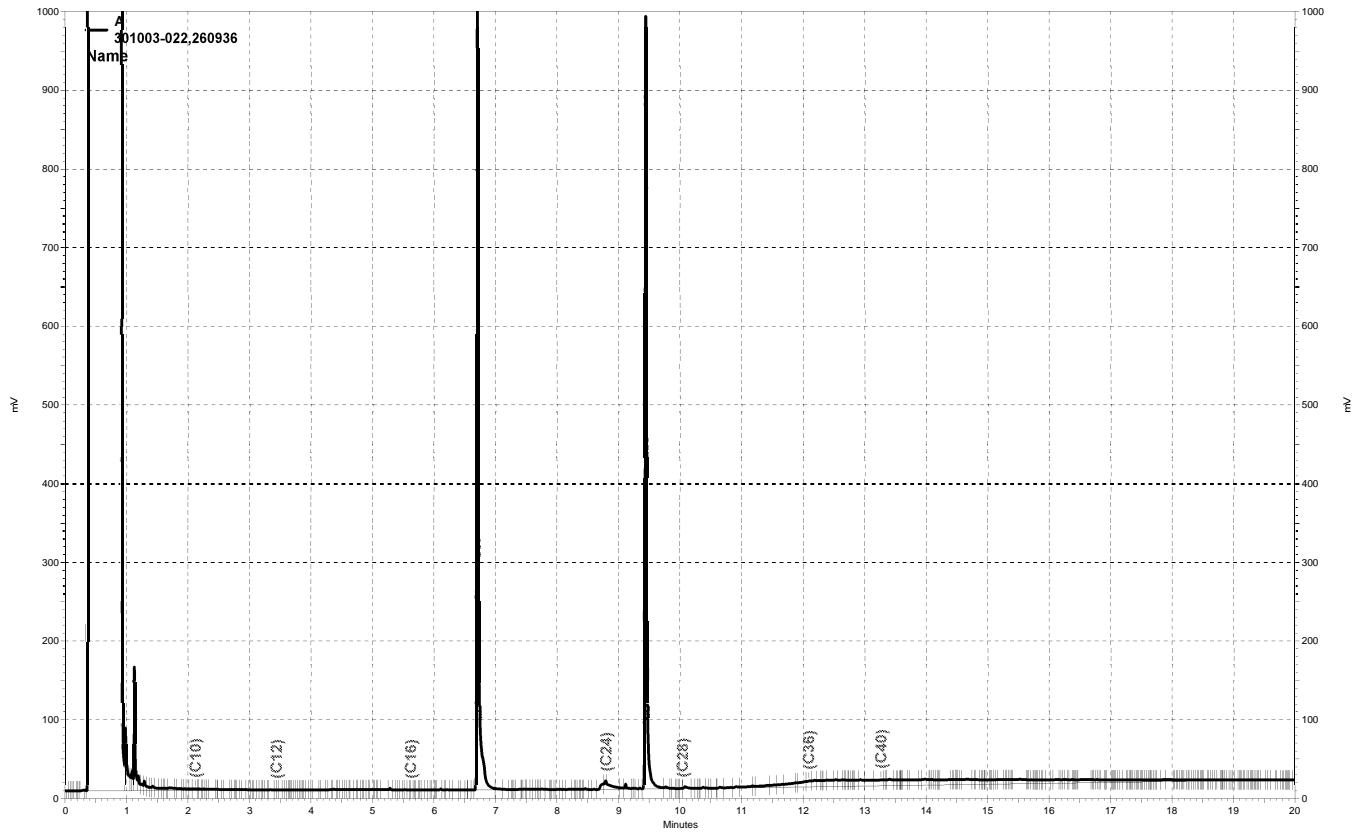
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\179a028, A



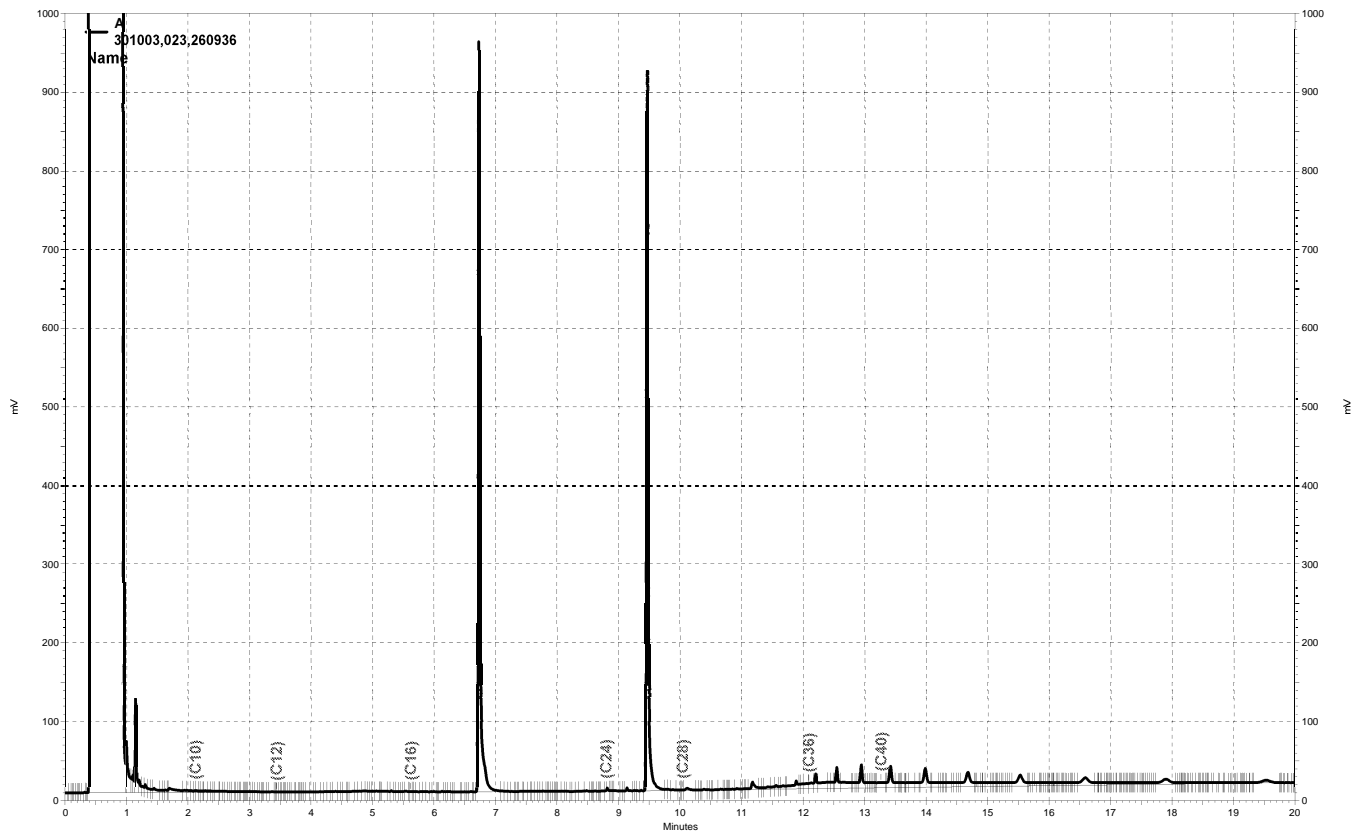
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\179a029, A



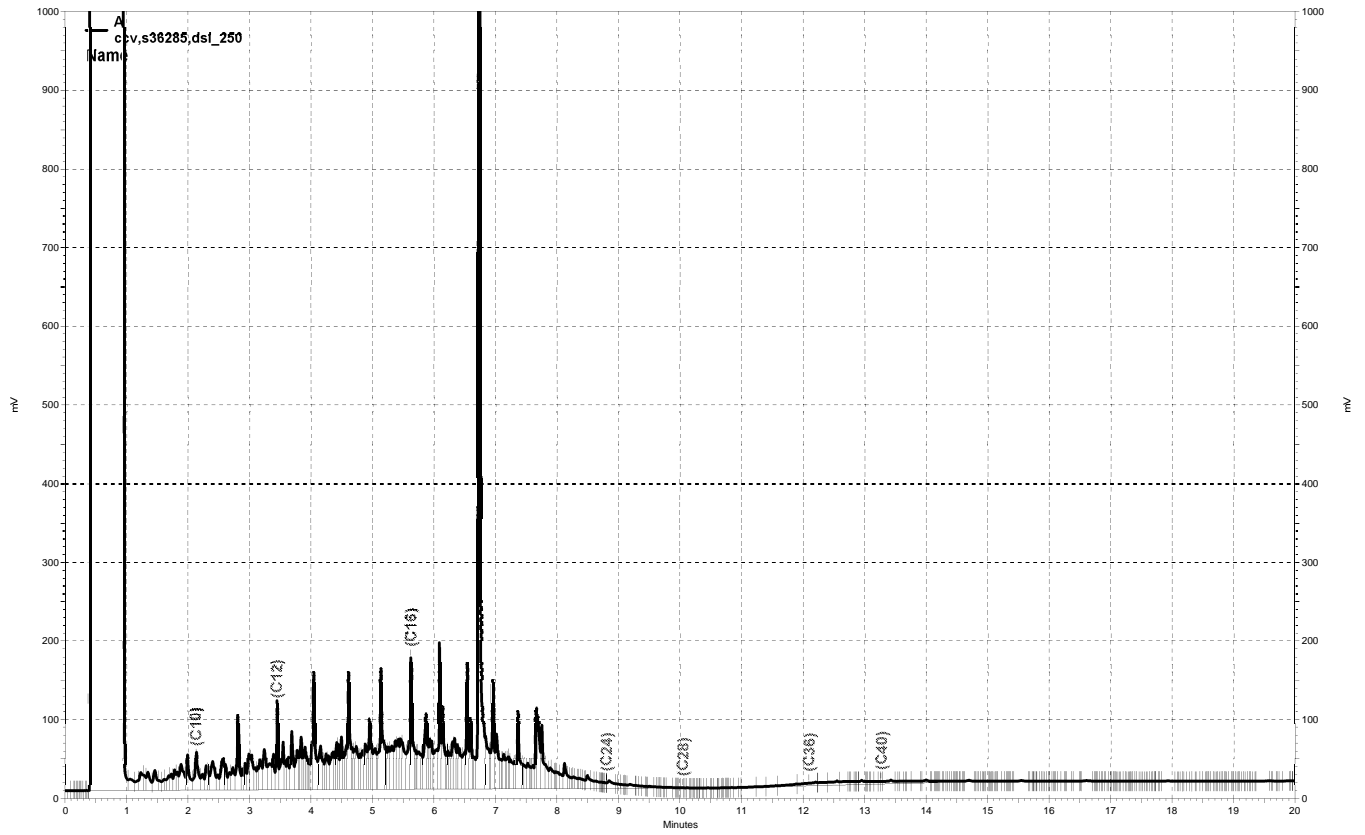
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\179a025, A



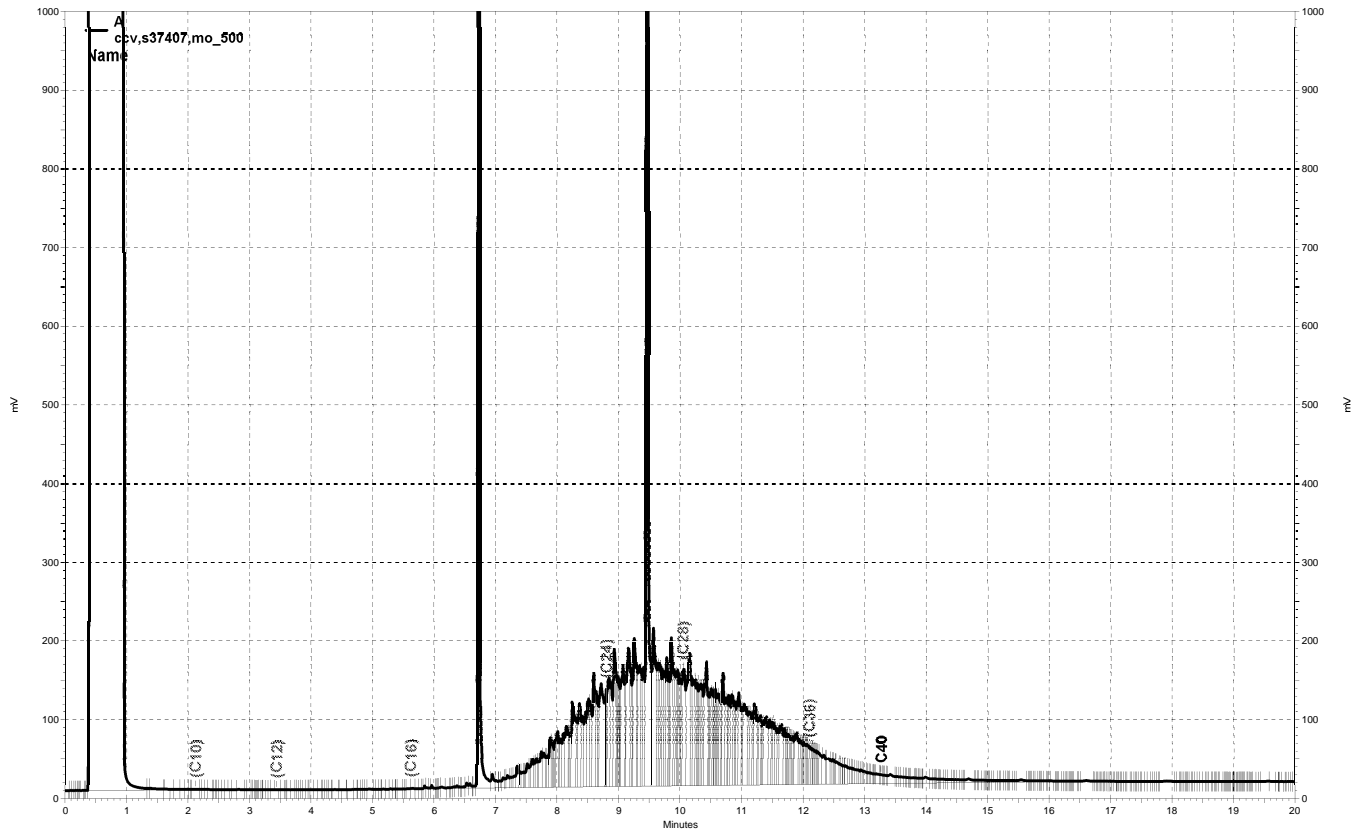
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\179a026, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\179a027, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\179a012, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\179a013, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 301003 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228163090001
 Units : mg/L

Name : HEXOTP_113
 Date : 24-APR-2018 17:47
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_058	228163090058	HEX OTP_5	24-APR-2018 17:47	S36499
L2	113_059	228163090059	HEX OTP_10	24-APR-2018 18:15	S36500
L3	113_060	228163090060	HEX OTP_25	24-APR-2018 18:43	S36501
L4	113_061	228163090061	HEX OTP_50	24-APR-2018 19:10	S36502
L5	113_062	228163090062	HEX OTP_100	24-APR-2018 19:38	S36503
L6	113_063	228163090063	HEX OTP_200	24-APR-2018 20:06	S36504

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	53564	53868	53293	52451	51731	53994	AVRG		1.88E-5		53150	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	5.0000	1	10.000	1	25.000	0	50.000	-1	100.00	-3	200.00	2

CB1 04/25/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301003 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301003 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

ENTHALPY INITIAL CALIBRATION FOR 301003 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301003 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178245102001
 Units : mg/L

Name : HEXOTP_170
 Date : 19-JUN-2018 17:59
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a021	178245102021	HEXOTP_5	19-JUN-2018 17:59	S36499
L2	170a022	178245102022	HEXOTP_10	19-JUN-2018 18:27	S36500
L3	170a023	178245102023	HEXOTP_25	19-JUN-2018 18:55	S36501
L4	170a024	178245102024	HEXOTP_50	19-JUN-2018 19:23	S36502
L5	170a025	178245102025	HEXOTP_100	19-JUN-2018 19:50	S36503
L6	170a026	178245102026	HEXOTP_200	19-JUN-2018 20:18	S36504

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
o-Terphenyl	86783	88119	87132	86906	85633	86500	AVRG		1.15E-5		86846	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.0000	0	10.000	1	25.000	0	50.000	0	100.00	-1	200.00	0

WA1 06/20/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 06/20/18

Reviewer: EAH

Date: 06/20/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301003 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178245102002
 Units : mg/L

Name : DSL_170
 Date : 19-JUN-2018 21:13
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	170a028	178245102028	DSL_10	19-JUN-2018 21:13	S36610
L2	170a029	178245102029	DSL_100	19-JUN-2018 21:41	S36611
L3	170a030	178245102030	DSL_500	19-JUN-2018 22:08	S36613
L4	170a031	178245102031	DSL_1000	19-JUN-2018 22:36	S36615
L5	170a032	178245102032	DSL_5000	19-JUN-2018 23:04	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	76501	73489	74507	72789	70799	AVRG		1.36E-5		73617	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	4	100.00	0	500.00	1	1000.0	-1	5000.0	-4

WA1 06/20/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 06/20/18

Reviewer: EAH

Date: 06/20/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301003 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178245102002

Name : DSL_170
Cal Date : 19-JUN-2018

ICV 178245102034 (170a034 20-JUN-2018) stds: S35844

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	465.2	mg/L	-7	15	

Analyst: WA1

Date: 06/20/18

Reviewer: EAH

Date: 06/20/18

ENTHALPY INITIAL CALIBRATION FOR 301003 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178255212001
 Units : mg/L

Name : MO_176
 Date : 26-JUN-2018 09:40
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	177a006	178255212006	MO_50	26-JUN-2018 09:40	S36946
L2	177a007	178255212007	MO_250	26-JUN-2018 10:07	S36948
L3	177a008	178255212008	MO_500	26-JUN-2018 10:35	S36949
L4	177a009	178255212009	MO_1000	26-JUN-2018 11:02	S36951
L5	177a010	178255212010	MO_2500	26-JUN-2018 11:30	S36926 (2X)
L6	177a011	178255212011	MO_5000	26-JUN-2018 11:57	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	38044	44453	44828	47660	49522	44766	AVRG		2.23E-5		44879	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-15	250.00	-1	500.00	0	1000.0	6	2500.0	10	5000.0	0

WA1 06/26/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 06/26/18

Reviewer: EAH

Date: 06/26/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301003 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178255212001

Name : MO_176
Cal Date : 26-JUN-2018

ICV 178255212013 (177a013 26-JUN-2018) stds: S36833

Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	507.6	mg/L	2	15	

Analyst: WA1

Date: 06/26/18

Reviewer: EAH

Date: 06/26/18

ENTHALPY INITIAL CALIBRATION FOR 301003 GCSV Soil: EPA 8015B

Inst : GC27A
 Calnum : 978167410001
 Units : mg/L

Name : MO_116
 Date : 26-APR-2018 14:30
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	116a013	978167410013	MO_50	26-APR-2018 14:30	S34924
L2	116a014	978167410014	MO_250	26-APR-2018 14:56	S34925
L3	116a015	978167410015	MO_500	26-APR-2018 15:21	S34926
L4	116a016	978167410016	MO_1000	26-APR-2018 15:46	S34927
L5	116a019	978167410019	MO_2500	26-APR-2018 17:01	S34923 (2X)
L6	116a020	978167410020	MO_5000	26-APR-2018 17:26	S34923

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	277005	319984	324906	337867	337284	329366	AVRG		3.11E-6		321069	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-14	250.00	0	500.00	1	1000.0	5	2500.0	5	5000.0	3

WA1 04/27/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 04/27/18

Reviewer: EAH

Date: 04/27/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301003 GCSV Soil: EPA 8015B

Inst : GC27A
 Calnum : 978168840001
 Units : mg/L

Name : DSL_117
 Date : 27-APR-2018 11:21
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	117a006	978168840006	DSL_10	27-APR-2018 11:21	S36610
L2	117a007	978168840007	DSL_100	27-APR-2018 11:46	S36611
L3	117a008	978168840008	DSL_500	27-APR-2018 12:11	S36613
L4	117a009	978168840009	DSL_1000	27-APR-2018 12:36	S36615
L5	117a010	978168840010	DSL_5000	27-APR-2018 13:01	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	526583	461278	471305	470589	471567	AVRG		2.08E-6		480265	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	10	100.00	-4	500.00	-2	1000.0	-2	5000.0	-2

WA1 04/27/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 04/27/18

Reviewer: EAH

Date: 04/27/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301003 GCSV Soil
EPA 8015B

Inst : GC27A
Calnum : 978168840001

Name : DSL_117
Cal Date : 27-APR-2018

ICV 978168840012 (117a012 27-APR-2018) stds: S35164

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	476.1	mg/L	-5	15	

Analyst: WA1

Date: 04/27/18 *

Reviewer: EAH

Date: 04/27/18 *

ENTHALPY INITIAL CALIBRATION FOR 301003 GCSV Soil: EPA 8015B

Inst : GC27A
 Calnum : 978235089001
 Units : mg/L

Name : HEXOTP_163
 Date : 14-JUN-2018 03:28
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	163a092	978235089092	HEX OTP_5	14-JUN-2018 03:28	S36499
L2	163a093	978235089093	HEX OTP_10	14-JUN-2018 03:54	S36500
L3	163a094	978235089094	HEX OTP_25	14-JUN-2018 04:19	S36501
L4	163a095	978235089095	HEX OTP_50	14-JUN-2018 04:44	S36502
L5	163a096	978235089096	HEX OTP_100	14-JUN-2018 05:10	S36503
L6	163a097	978235089097	HEX OTP_200	14-JUN-2018 05:35	S36504

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
o-Terphenyl	540827	564698	573092	576254	579271	592138	AVRG		1.75E-6		571047	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.0000	-5	10.000	-1	25.000	0	50.000	1	100.00	1	200.00	4

CB1 06/14/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 06/14/18

Reviewer: EAH

Date: 06/14/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
 Seqnum : 228258092011 File : 179_011 Time : 28-JUN-2018 18:15
 Standards: S36285

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	B	228163090002	24-APR-2018	45000	41001	250.0	227.8	mg/L	-9	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	46637	50.00	43.87	mg/L	-12	15	

CB1 06/29/18 : ccv,s36285,dsl_250

CB1 06/29/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228258092012 File : 179_012 Time : 28-JUN-2018 18:44
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	28348	500.0	477.0	mg/L	-5	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	49528	50.00	46.59	mg/L	-7	15	

CB1 06/29/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228258092026 File : 179_026 Time : 29-JUN-2018 01:19
 Standards: S37195

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	43507	500.0	483.4	mg/L	-3	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	49787	50.00	46.84	mg/L	-6	15	

CB1 06/29/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228258092027 File : 179_027 Time : 29-JUN-2018 01:48
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	29575	500.0	497.7	mg/L	0	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	49966	50.00	47.00	mg/L	-6	15	

CB1 06/29/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
 Seqnum : 178258092012 File : 179a012 Time : 28-JUN-2018 13:16
 Standards: S36285

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178245102002	19-JUN-2018	73617	66213	250.0	224.9	mg/L	-10	15	
o-Terphenyl	178245102001	19-JUN-2018	86846	78345	50.00	45.11	mg/L	-10	15	

WA1 06/28/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/28/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178258092013 File : 179a013 Time : 28-JUN-2018 13:44
 Standards: S37407

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	178255212001	26-JUN-2018	44879	44980	500.0	501.1	mg/L	0	15	
o-Terphenyl	178245102001	19-JUN-2018	86846	81552	50.00	46.95	mg/L	-6	15	

WA1 06/28/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 06/28/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
 Seqnum : 178258092030 File : 179a030 Time : 28-JUN-2018 21:41
 Standards: S37195

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178245102002	19-JUN-2018	73617	67865	500.0	460.9	mg/L	-8	15	
o-Terphenyl	178245102001	19-JUN-2018	86846	78167	50.00	45.00	mg/L	-10	15	

CB1 06/29/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178258092031 File : 179a031 Time : 28-JUN-2018 22:09
 Standards: S37407

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178255212001	26-JUN-2018	44879	46621	500.0	519.4	mg/L	4	15	
o-Terphenyl	178245102001	19-JUN-2018	86846	81054	50.00	46.67	mg/L	-7	15	

CB1 06/29/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978256692074 File : 178a074 Time : 28-JUN-2018 20:44
 Standards: S37407

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978167410001	26-APR-2018	321069	345341	500.0	537.8	mg/L	8	15	
o-Terphenyl	978235089001	14-JUN-2018	571047	611505	50.00	53.54	mg/L	7	15	

CB1 06/29/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301003 GCSV Soil
EPA 8015B

Inst : GC27A Run Name : DSL_500 IDF : 1.0
 Seqnum : 978256692087 File : 178a087 Time : 29-JUN-2018 02:12
 Standards: S37195

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978168840001	27-APR-2018	480265	521606	500.0	543.0	mg/L	9	15	
o-Terphenyl	978235089001	14-JUN-2018	571047	612401	50.00	53.62	mg/L	7	15	

CB1 06/29/18 : ccv,s37195,dsl_500

CB1 06/29/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 06/29/18 Reviewer: TKM Date: 07/02/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178245102

Instrument : GC17A Begun : 06/19/18 05:02
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	170a001	IB					06/19/18 05:02	1.0	
002	170a002	X	CMARKER				06/19/18 05:29	1.0	1
003	170a003	CCV	DSL_500				06/19/18 05:57	1.0	2
004	170a004	CCV	MO_500				06/19/18 06:25	1.0	3
005	170a005	MSS	300732-001		Soil	260610	06/19/18 08:17	10.0	
006	170a006	SAMPLE	300732-003		Soil	260610	06/19/18 08:45	2.0	
007	170a007	SAMPLE	300732-007		Soil	260610	06/19/18 09:13	2.0	
008	170a008	SAMPLE	300684-001	S	Water	260545	06/19/18 09:41	1.0	
009	170a009	BLANK	QC936328		Water	260602	06/19/18 11:09	1.0	
010	170a010	LCS	QC936329		Water	260602	06/19/18 11:37	1.0	
011	170a011	BLANK	QC936328		Water	260602	06/19/18 12:05	1.0	
012	170a012	MSS	300669-004		Water	260602	06/19/18 12:33	1.0	
013	170a013	MS	QC936330		Water	260602	06/19/18 13:00	1.0	
014	170a014	MSD	QC936331		Water	260602	06/19/18 13:28	1.0	
015	170a015	CCV	DSL_1000				06/19/18 14:06	1.0	4
016	170a016	CCV	MO_500				06/19/18 14:34	1.0	3
017	170a017	X	CMARKER				06/19/18 15:01	1.0	1
018	170a018	CCV	DSL_500				06/19/18 16:37	1.0	2
019	170a019	IB					06/19/18 17:04	1.0	
020	170a020	IB	CALIB				06/19/18 17:32	1.0	
021	170a021	ICAL	HEXOTP_5				06/19/18 17:59	1.0	5
022	170a022	ICAL	HEXOTP_10				06/19/18 18:27	1.0	6
023	170a023	ICAL	HEXOTP_25				06/19/18 18:55	1.0	7
024	170a024	ICAL	HEXOTP_50				06/19/18 19:23	1.0	8
025	170a025	ICAL	HEXOTP_100				06/19/18 19:50	1.0	9
026	170a026	ICAL	HEXOTP_200				06/19/18 20:18	1.0	10
027	170a027	IB	CALIB				06/19/18 20:46	1.0	
028	170a028	ICAL	DSL_10				06/19/18 21:13	1.0	11
029	170a029	ICAL	DSL_100				06/19/18 21:41	1.0	12
030	170a030	ICAL	DSL_500				06/19/18 22:08	1.0	13
031	170a031	ICAL	DSL_1000				06/19/18 22:36	1.0	14
032	170a032	ICAL	DSL_5000				06/19/18 23:04	1.0	15
033	170a033	IB	CALIB				06/19/18 23:32	1.0	
034	170a034	ICV	DSL_500				06/20/18 00:00	1.0	16
035	170a035	IB	CALIB				06/20/18 00:27	1.0	
036	170a036	ICAL	MO_50				06/20/18 00:55	1.0	17
037	170a037	ICAL	MO_250				06/20/18 01:23	1.0	18
038	170a038	ICAL	MO_500				06/20/18 01:51	1.0	19
039	170a039	ICAL	MO_1000				06/20/18 02:18	1.0	20
040	170a040	ICAL	MO_2500				06/20/18 02:46	1.0	21
041	170a041	ICAL	MO_5000				06/20/18 03:14	1.0	21
042	170a042	IB	CALIB				06/20/18 03:41	1.0	
043	170a043	CMARKER	C8-C40				06/20/18 04:09	1.0	1
044	170a044	IB	CALIB				06/20/18 04:37	1.0	

CB1 06/19/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 5.

WA1 06/20/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 6 through 44.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178255212

Instrument : GC17A
 Method : EPA 8015B

Begun : 06/26/18 05:32
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	177a001	IB				06/26/18 05:32	1.0	
002	177a002	X	CMARKER			06/26/18 05:59	1.0	1
003	177a003	CCV	DSL_500			06/26/18 06:27	1.0	2
004	177a004	CCV	MO_500			06/26/18 06:55	1.0	3
005	177a005	IB	CALIB			06/26/18 09:12	1.0	
006	177a006	ICAL	MO_50			06/26/18 09:40	1.0	4
007	177a007	ICAL	MO_250			06/26/18 10:07	1.0	5
008	177a008	ICAL	MO_500			06/26/18 10:35	1.0	6
009	177a009	ICAL	MO_1000			06/26/18 11:02	1.0	7
010	177a010	ICAL	MO_2500			06/26/18 11:30	1.0	8
011	177a011	ICAL	MO_5000			06/26/18 11:57	1.0	8
012	177a012	IB	CALIB			06/26/18 12:25	1.0	
013	177a013	ICV	MO_500			06/26/18 12:52	1.0	3
014	177a014	IB	CALIB			06/26/18 13:21	1.0	
015	177a015	CMARKER	C8-C40			06/26/18 13:48	1.0	1
016	177a016	IB	CALIB			06/26/18 14:16	1.0	
017	177a017	CCV	DSL_500			06/26/18 16:00	1.0	2
018	177a018	CCV	MO_500			06/26/18 16:28	1.0	3

CB1 06/26/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 16.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178258092

Instrument : GC17A Begun : 06/28/18 05:32
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	179a001	IB				06/28/18 05:32	1.0		
002	179a002	X	CMARKER			06/28/18 06:00	1.0	1	
003	179a003	CCV	DSL_500			06/28/18 06:27	1.0	2	
004	179a004	CCV	MO_500			06/28/18 06:55	1.0	3	
005	179a005	SAMPLE	300978-032	Soil	260910	06/28/18 09:36	3.0		2:BUNKC:10-40=5600
006	179a006	SAMPLE	300949-026	Soil	260910	06/28/18 10:03	3.0		
007	179a007	SAMPLE	300987-004	Water	260875	06/28/18 10:57	1.0		
008	179a008	SAMPLE	300987-001	Water	260875	06/28/18 11:25	5.0		2:BUNKC:10-40=8500
009	179a009	SAMPLE	300987-003	Water	260875	06/28/18 11:53	3.0		
010	179a010	SAMPLE	300987-002	Water	260875	06/28/18 12:21	2.0		
011	179a011	SAMPLE	301069-001	Water	260875	06/28/18 12:48	1.0		
012	179a012	CCV	DSL_250			06/28/18 13:16	1.0	4	
013	179a013	CCV	MO_500			06/28/18 13:44	1.0	3	
014	179a014	X	CMARKER			06/28/18 14:11	1.0	1	
015	179a015	CCV	BUNK_500			06/28/18 14:39	1.0	5	
016	179a016	BLANK	QC937640	Soil	260936	06/28/18 15:15	1.0		
017	179a017	LCS	QC937641	Soil	260936	06/28/18 15:43	1.0		
018	179a018	MSS	300941-001	Soil	260936	06/28/18 16:10	5.0		
019	179a019	MS	QC937642	Soil	260936	06/28/18 16:38	5.0		
020	179a020	MSD	QC937643	Soil	260936	06/28/18 17:06	5.0		
021	179a021	IB				06/28/18 17:34	1.0		
022	179a022	SAMPLE	300980-005	Soil	260936	06/28/18 18:01	3.0		
023	179a023	SAMPLE	300980-010	Soil	260936	06/28/18 18:29	10.0		
024	179a024	IB				06/28/18 18:57	1.0		
025	179a025	SAMPLE	301003-021	Soil	260936	06/28/18 19:24	1.0		
026	179a026	SAMPLE	301003-022	Soil	260936	06/28/18 19:52	1.0		
027	179a027	SAMPLE	301003-023	Soil	260936	06/28/18 20:19	1.0		
028	179a028	SAMPLE	301003-019	Soil	260938	06/28/18 20:47	1.0		
029	179a029	SAMPLE	301003-020	Soil	260938	06/28/18 21:14	1.0		
030	179a030	CCV	DSL_500			06/28/18 21:41	1.0	2	
031	179a031	CCV	MO_500			06/28/18 22:09	1.0	3	
032	179a032	CCV	BUNK_500			06/28/18 22:36	1.0	5	
033	179a033	X	CMARKER			06/28/18 23:04	1.0	1	

CB1 06/29/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 33.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	113_001	IB					04/23/18 06:10	1.0	
002	113_002	IB					04/23/18 06:38	1.0	
003	113_003	X	CMARKER				04/23/18 07:06	1.0	1
004	113_004	CCV	DSL_500				04/23/18 07:34	1.0	2
005	113_005	CCV	MO_500				04/23/18 08:35	1.0	3
006	113_006	CCV	DSL_500				04/23/18 09:02	1.0	2
007	113_007	IB					04/23/18 12:40	1.0	
008	113_008	X	CMARKER				04/23/18 13:07	1.0	1
009	113_009	CCV	DSL_500				04/23/18 13:35	1.0	2
010	113_010	CCV	MO_500				04/23/18 14:03	1.0	3
012	113_012	IB					04/23/18 15:27	1.0	
013	113_013	SAMPLE	299115-001		Soil	258772	04/23/18 16:57	1.0	
014	113_014	SAMPLE	299115-002		Soil	258772	04/23/18 17:25	1.0	
015	113_015	SAMPLE	299115-003		Soil	258772	04/23/18 17:53	1.0	
016	113_016	SAMPLE	299115-004		Soil	258772	04/23/18 18:20	1.0	
017	113_017	SAMPLE	299056-001		Soil	258772	04/23/18 18:48	2.0	
018	113_018	IB					04/23/18 19:16	1.0	
019	113_019	SAMPLE	299117-001		Soil	258772	04/23/18 19:44	1.0	
020	113_020	SAMPLE	299117-002		Soil	258772	04/23/18 20:11	1.0	
021	113_021	MS	QC929007	S	Soil	258726	04/23/18 20:39	1.0	
022	113_022	MSD	QC929008	S	Soil	258726	04/23/18 21:07	1.0	
023	113_023	IB					04/23/18 21:35	1.0	
024	113_024	CCV	DSL_250				04/23/18 22:03	1.0	4
025	113_025	CCV	MO_500				04/23/18 22:31	1.0	3
026	113_026	X	CMARKER				04/23/18 22:59	1.0	1
027	113_027	BLANK	QC929171		Soil	258772	04/23/18 23:27	1.0	
028	113_028	LCS	QC929172		Soil	258772	04/23/18 23:55	1.0	
029	113_029	MSS	299056-002		Soil	258772	04/24/18 00:23	1.0	
030	113_030	MS	QC929173		Soil	258772	04/24/18 00:51	1.0	
031	113_031	MSD	QC929174		Soil	258772	04/24/18 01:19	1.0	
032	113_032	SAMPLE	299118-001		Soil	258772	04/24/18 01:47	1.0	
033	113_033	SAMPLE	299119-001		Soil	258772	04/24/18 02:14	1.0	
034	113_034	IB					04/24/18 02:42	1.0	
035	113_035	SAMPLE	299126-001		Soil	258772	04/24/18 03:10	1.0	
036	113_036	SAMPLE	299126-002		Soil	258772	04/24/18 03:38	1.0	
037	113_037	SAMPLE	299116-001		Soil	258772	04/24/18 04:06	1.0	
038	113_038	SAMPLE	299116-002		Soil	258772	04/24/18 04:34	1.0	
039	113_039	IB					04/24/18 05:02	1.0	
040	113_040	CCV	DSL_500				04/24/18 05:30	1.0	2
041	113_041	CCV	MO_500				04/24/18 05:58	1.0	3
042	113_042	X	CMARKER				04/24/18 06:26	1.0	1
043	113_043	SAMPLE	299056-005		Soil	258786	04/24/18 07:10	1.0	
044	113_044	SAMPLE	299056-006		Soil	258786	04/24/18 07:38	1.0	
045	113_045	SAMPLE	299055-001		Soil	258786	04/24/18 08:10	1.0	
046	113_046	SAMPLE	299055-002		Soil	258786	04/24/18 08:38	1.0	
047	113_047	SAMPLE	299055-004		Soil	258786	04/24/18 09:06	1.0	
048	113_048	SAMPLE	299055-005		Soil	258786	04/24/18 09:34	1.0	
049	113_049	SAMPLE	299055-006		Soil	258786	04/24/18 10:02	1.0	
050	113_050	SAMPLE	299055-007		Soil	258786	04/24/18 10:30	1.0	
051	113_051	CCV	DSL_1000				04/24/18 10:58	1.0	5
052	113_052	CCV	MO_500				04/24/18 11:26	1.0	3
053	113_053	X	CMARKER				04/24/18 11:54	1.0	1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B Begun : 04/23/18 06:10
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	113_054	CCV	DSL_1000				04/24/18 12:22	1.0	5
055	113_055	CCV	DSL_1000				04/24/18 12:50	1.0	5
056	113_056	IB					04/24/18 16:52	1.0	
057	113_057	IB	CALIB				04/24/18 17:20	1.0	
058	113_058	ICAL	HEX OTP_5				04/24/18 17:47	1.0	6
059	113_059	ICAL	HEX OTP_10				04/24/18 18:15	1.0	7
060	113_060	ICAL	HEX OTP_25				04/24/18 18:43	1.0	8
061	113_061	ICAL	HEX OTP_50				04/24/18 19:10	1.0	9
062	113_062	ICAL	HEX OTP_100				04/24/18 19:38	1.0	10
063	113_063	ICAL	HEX OTP_200				04/24/18 20:06	1.0	11
064	113_064	IB	CALIB				04/24/18 20:33	1.0	
065	113_065	ICAL	DSL_10				04/24/18 21:01	1.0	12
066	113_066	ICAL	DSL_100				04/24/18 21:29	1.0	13
067	113_067	ICAL	DSL_500				04/24/18 21:57	1.0	14
068	113_068	ICAL	DSL_1000				04/24/18 22:25	1.0	15
069	113_069	ICAL	DSL_5000				04/24/18 22:53	1.0	16
070	113_070	IB	CALIB				04/24/18 23:21	1.0	
071	113_071	ICV	DSL_500				04/24/18 23:49	1.0	17
072	113_072	IB	CALIB				04/25/18 00:17	1.0	
073	113_073	ICAL	MO_50				04/25/18 00:45	1.0	18
074	113_074	ICAL	MO_250				04/25/18 01:13	1.0	19
075	113_075	ICAL	MO_500				04/25/18 01:41	1.0	20
076	113_076	ICAL	MO_1000				04/25/18 02:09	1.0	21
077	113_077	ICAL	MO_2500				04/25/18 02:37	1.0	22
078	113_078	ICAL	MO_5000				04/25/18 03:05	1.0	22
079	113_079	IB	CALIB				04/25/18 03:33	1.0	
080	113_080	CMARKER	C8-C50				04/25/18 04:01	1.0	23
081	113_081	IB	CALIB				04/25/18 04:29	1.0	

CB1 04/25/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 81.

CB1 04/23/18 : Hardware failure (bent syringe) for run at position 4, RR DSL opening CCV.

WA1 04/23/18 : Position 11 was mis-injected.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S35149 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S36610 13=S36611 14=S36613 15=S36615 16=S36609 17=S35164 18=S34924 19=S34925 20=S34926 21=S34927 22=S34923
 23=S35483

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228223554

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/04/18 05:54
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	155_001	IB				06/04/18 05:54	1.0	
002	155_002	CCV	DSL_500			06/04/18 06:22	1.0	1
003	155_003	CCV	MO_500			06/04/18 06:51	1.0	2
004	155_004	X	CMARKER			06/04/18 07:19	1.0	3
005	155_005	CCV	JET_250			06/04/18 08:37	1.0	4
006	155_006	BLANK	QC934363	Water	260120	06/04/18 11:26	1.0	
007	155_007	BS	QC934364	Water	260120	06/04/18 11:54	1.0	
008	155_008	BSD	QC934365	Water	260120	06/04/18 12:23	1.0	
009	155_009	SAMPLE	300258-001	Water	260120	06/04/18 12:51	1.0	
010	155_010	CCV	DSL_1000			06/04/18 13:19	1.0	5
011	155_011	CCV	MO_500			06/04/18 14:54	1.0	2
012	155_012	CCV	JET_250			06/04/18 15:23	1.0	4
013	155_013	X	CMARKER			06/04/18 15:51	1.0	3
014	155_014	IB				06/04/18 16:20	1.0	
015	155_015	IB	CALIB			06/04/18 16:48	1.0	
016	155_016	ICAL	MO_50			06/04/18 17:17	1.0	6
017	155_017	ICAL	MO_250			06/04/18 17:45	1.0	7
018	155_018	ICAL	MO_500			06/04/18 18:14	1.0	8
019	155_019	ICAL	MO_1000			06/04/18 18:43	1.0	9
020	155_020	ICAL	MO_2500			06/04/18 19:11	1.0	10
021	155_021	ICAL	MO_5000			06/04/18 19:39	1.0	10
022	155_022	IB	CALIB			06/04/18 20:08	1.0	
023	155_023	CMARKER	C8-C40			06/04/18 20:36	1.0	3
024	155_024	IB	CALIB			06/04/18 21:04	1.0	

CB1 06/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228258092

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/28/18 05:32
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	179_001	IB					06/28/18 05:32	1.0	
002	179_002	X	CMARKER				06/28/18 06:00	1.0	1
003	179_003	CCV	DSL_500				06/28/18 06:28	1.0	2
004	179_004	CCV	MO_500				06/28/18 06:57	1.0	3
005	179_005	BLANK	QC937423	S	Water	260875	06/28/18 14:38	1.0	
006	179_006	LCS	QC937424	S	Water	260875	06/28/18 15:06	1.0	
007	179_007	SAMPLE	301073-001	S	Water	260875	06/28/18 15:34	1.0	
008	179_008	SAMPLE	301073-002	S	Water	260875	06/28/18 16:03	1.0	
009	179_009	X	CMARKER				06/28/18 17:18	1.0	1
010	179_010	BLANK	QC937423	S	Water	260875	06/28/18 17:46	1.0	
011	179_011	CCV	DSL_250				06/28/18 18:15	1.0	4
012	179_012	CCV	MO_500				06/28/18 18:44	1.0	3
013	179_013	BLANK	QC937650		Soil	260938	06/28/18 19:12	1.0	
014	179_014	LCS	QC937651		Soil	260938	06/28/18 19:40	1.0	
015	179_015	MSS	301003-011		Soil	260938	06/28/18 20:09	1.0	
016	179_016	MS	QC937652		Soil	260938	06/28/18 20:37	1.0	
017	179_017	MSD	QC937653		Soil	260938	06/28/18 21:05	1.0	
018	179_018	SAMPLE	301003-001		Soil	260938	06/28/18 21:33	1.0	
019	179_019	SAMPLE	301003-002		Soil	260938	06/28/18 22:01	1.0	
020	179_020	IB					06/28/18 22:29	1.0	
021	179_021	SAMPLE	301003-003		Soil	260938	06/28/18 22:57	1.0	
022	179_022	SAMPLE	301003-004		Soil	260938	06/28/18 23:26	1.0	
023	179_023	SAMPLE	301003-005		Soil	260938	06/28/18 23:54	1.0	
024	179_024	SAMPLE	301003-006		Soil	260938	06/29/18 00:23	1.0	
025	179_025	SAMPLE	301003-007		Soil	260938	06/29/18 00:51	1.0	
026	179_026	CCV	DSL_500				06/29/18 01:19	1.0	2
027	179_027	CCV	MO_500				06/29/18 01:48	1.0	3
028	179_028	X	CMARKER				06/29/18 02:16	1.0	1

CB1 06/29/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 28.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978167410

Instrument : GC27A
 Method : EPA 8015B

Begun : 04/26/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	116a001	IB				04/26/18 06:10	1.0	
002	116a002	X	CMARKER			04/26/18 06:35	1.0	1
003	116a003	CCV	DSL_500			04/26/18 07:00	1.0	2
004	116a004	CCV	MO_500			04/26/18 07:26	1.0	3
005	116a005	MDL	298735-004	Soil	258375	04/26/18 11:08	1.0	
006	116a006	MDL	298735-005	Soil	258375	04/26/18 11:34	1.0	
007	116a007	MDL	298735-006	Soil	258375	04/26/18 11:59	1.0	
008	116a008	CCV	DSL_250			04/26/18 12:24	1.0	4
009	116a009	CCV	MO_500			04/26/18 12:50	1.0	3
010	116a010	X	CMARKER			04/26/18 13:15	1.0	1
011	116a011	IB				04/26/18 13:40	1.0	
012	116a012	IB	CALIB			04/26/18 14:05	1.0	
013	116a013	ICAL	MO_50			04/26/18 14:30	1.0	5
014	116a014	ICAL	MO_250			04/26/18 14:56	1.0	6
015	116a015	ICAL	MO_500			04/26/18 15:21	1.0	7
016	116a016	ICAL	MO_1000			04/26/18 15:46	1.0	8
017	116a017	XICAL	MO_2500			04/26/18 16:11	1.0	9
018	116a018	IB				04/26/18 16:36	1.0	
019	116a019	ICAL	MO_2500			04/26/18 17:01	1.0	9
020	116a020	ICAL	MO_5000			04/26/18 17:26	1.0	9
021	116a021	IB	CALIB			04/26/18 17:51	1.0	
022	116a022	CMARKER	C8-C50			04/26/18 18:33	1.0	10
023	116a023	IB	CALIB			04/26/18 18:58	1.0	

WA1 04/26/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 10.

CB1 04/27/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 11 through 23.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978168840

Instrument : GC27A
 Method : EPA 8015B

Begun : 04/27/18 06:00
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std Used
001	117a001	IB				04/27/18 06:00	1.0	
002	117a002	X	CMARKER			04/27/18 06:26	1.0	1
003	117a003	CCV	DSL_500			04/27/18 06:51	1.0	2
004	117a004	CCV	MO_500			04/27/18 07:17	1.0	3
005	117a005	IB	CALIB			04/27/18 10:50	1.0	
006	117a006	ICAL	DSL_10			04/27/18 11:21	1.0	4
007	117a007	ICAL	DSL_100			04/27/18 11:46	1.0	5
008	117a008	ICAL	DSL_500			04/27/18 12:11	1.0	6
009	117a009	ICAL	DSL_1000			04/27/18 12:36	1.0	7
010	117a010	ICAL	DSL_5000			04/27/18 13:01	1.0	8
011	117a011	IB	CALIB			04/27/18 13:27	1.0	
012	117a012	ICV	DSL_500			04/27/18 13:52	1.0	9
013	117a013	IB	CALIB			04/27/18 14:17	1.0	
014	117a014	CMARKER	C8-C50			04/27/18 14:43	1.0	10
015	117a015	IB	CALIB			04/27/18 15:08	1.0	
016	117a016	IB				04/27/18 16:24	1.0	
017	117a017	CCV	DSL_1000			04/27/18 16:49	1.0	11
018	117a018	CCV	MO_500			04/27/18 17:14	1.0	3
019	117a019	X	CMARKER			04/27/18 17:39	1.0	1
020	117a020	MDL	298735-007	Soil	258428	04/27/18 18:04	1.0	
021	117a021	MDL	298735-008	Soil	258428	04/27/18 18:29	1.0	
022	117a022	CCV	DSL_500			04/27/18 18:55	1.0	2
023	117a023	CCV	MO_500			04/27/18 19:20	1.0	3
024	117a024	X	CMARKER			04/27/18 19:45	1.0	1

CB1 04/27/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 4.

WA1 04/27/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 5 through 15.

CB1 04/30/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 16 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978235089

Instrument : GC27A
 Method : EPA 8015B

Begun : 06/12/18 06:09
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	163a001	IB					06/12/18 06:09	1.0	
002	163a002	X	CMARKER				06/12/18 06:34	1.0	1
003	163a003	CCV	DSL_500				06/12/18 06:59	1.0	2
004	163a004	CCV	MO_500				06/12/18 07:25	1.0	3
005	163a005	BLANK	QC935363	S	Soil	260369	06/12/18 10:20	1.0	
006	163a006	LCS	QC935364	S	Soil	260369	06/12/18 10:45	1.0	
007	163a007	SAMPLE	300413-014	S	Soil	260369	06/12/18 11:10	1.0	
008	163a008	SAMPLE	300413-010	S	Soil	260369	06/12/18 11:35	1.0	3:BUNKC:12-40=7700
009	163a009	SAMPLE	300413-005	S	Soil	260369	06/12/18 12:01	2.0	2:BUNKC:12-40=6400
010	163a010	IB					06/12/18 12:28	1.0	
011	163a011	CCV	DSL_1000				06/12/18 12:53	1.0	4
012	163a012	CCV	MO_500				06/12/18 13:18	1.0	3
013	163a013	X	CMARKER				06/12/18 13:44	1.0	1
014	163a014	BLANK	QC935403	S	Water	260379	06/12/18 14:09	1.0	
015	163a015	BS	QC935404	S	Water	260379	06/12/18 14:34	1.0	
016	163a016	BSD	QC935405	S	Water	260379	06/12/18 15:00	1.0	
017	163a017	SAMPLE	300394-025	S	Water	260379	06/12/18 15:25	1.0	3:BUNKC:10-40=15000
018	163a018	IB					06/12/18 15:50	1.0	
019	163a019	SAMPLE	300449-001		Soil	260411	06/12/18 16:16	1.0	
020	163a020	SAMPLE	300449-002		Soil	260411	06/12/18 16:41	1.0	
021	163a021	SAMPLE	300449-003		Soil	260411	06/12/18 17:07	1.0	
022	163a022	SAMPLE	300449-004		Soil	260411	06/12/18 17:32	1.0	
023	163a023	SAMPLE	300449-005		Soil	260411	06/12/18 17:58	1.0	
024	163a024	SAMPLE	300449-006		Soil	260411	06/12/18 18:23	1.0	
025	163a025	IB					06/12/18 18:48	1.0	
026	163a026	CCV	DSL_500				06/12/18 19:14	1.0	2
027	163a027	CCV	MO_500				06/12/18 19:39	1.0	3
028	163a028	X	CMARKER				06/12/18 20:04	1.0	1
029	163a029	BLANK	QC935613		Soil	260428	06/12/18 20:30	1.0	
030	163a030	LCS	QC935614		Soil	260428	06/12/18 20:55	1.0	
031	163a031	MSS	300379-020		Soil	260428	06/12/18 21:20	1.0	
032	163a032	MS	QC935615		Soil	260428	06/12/18 21:45	1.0	
033	163a033	MSD	QC935616		Soil	260428	06/12/18 22:10	1.0	
034	163a034	SAMPLE	300565-001		Soil	260428	06/12/18 22:36	10.0	sh
035	163a035	IB					06/12/18 23:01	1.0	
036	163a036	SAMPLE	300379-019		Soil	260428	06/12/18 23:26	1.0	
037	163a037	SAMPLE	300379-021		Soil	260428	06/12/18 23:52	1.0	
038	163a038	SAMPLE	300412-001		Soil	260428	06/13/18 00:17	1.0	
039	163a039	SAMPLE	300412-002		Soil	260428	06/13/18 00:43	1.0	
040	163a040	SAMPLE	300412-003		Soil	260428	06/13/18 01:08	1.0	
041	163a041	SAMPLE	300412-004		Soil	260428	06/13/18 01:33	1.0	
042	163a042	IB					06/13/18 01:59	1.0	
043	163a043	CCV	DSL_1000				06/13/18 02:24	1.0	4
044	163a044	CCV	MO_500				06/13/18 02:49	1.0	3
045	163a045	X	CMARKER				06/13/18 03:14	1.0	1
046	163a046	BLANK	QC935537	S	Soil	260411	06/13/18 06:46	1.0	
047	163a047	LCS	QC935538	S	Soil	260411	06/13/18 07:11	1.0	
048	163a048	SAMPLE	300455-003	S	Soil	260411	06/13/18 07:45	1.0	
049	163a049	SAMPLE	300455-012	S	Soil	260411	06/13/18 08:11	2.0	3:BUNKC:12-40=12000
050	163a050	SAMPLE	300439-006		Soil	260411	06/13/18 08:36	3.0	
051	163a051	IB					06/13/18 09:02	1.0	
052	163a052	CCV	DSL_500				06/13/18 09:27	1.0	2

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978235089

Instrument : GC27A
 Method : EPA 8015B

Begun : 06/12/18 06:09
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	163a053	CCV	MO_500				06/13/18 09:52	1.0	3
054	163a054	X	CMARKER				06/13/18 10:18	1.0	1
055	163a055	SAMPLE	300379-009		Soil	260428	06/13/18 10:54	1.0	
056	163a056	SAMPLE	300379-010		Soil	260428	06/13/18 11:19	1.0	
057	163a057	SAMPLE	300379-011		Soil	260428	06/13/18 11:45	1.0	
058	163a058	SAMPLE	300379-012		Soil	260428	06/13/18 12:10	1.0	
059	163a059	SAMPLE	300379-013		Soil	260428	06/13/18 12:35	1.0	
060	163a060	SAMPLE	300379-014		Soil	260428	06/13/18 13:01	1.0	
061	163a061	SAMPLE	300379-015		Soil	260428	06/13/18 13:26	1.0	
062	163a062	SAMPLE	300379-016		Soil	260428	06/13/18 13:52	1.0	
063	163a063	SAMPLE	300379-017		Soil	260428	06/13/18 14:17	1.0	
064	163a064	SAMPLE	300379-018		Soil	260428	06/13/18 14:43	1.0	
065	163a065	IB					06/13/18 15:08	1.0	
066	163a066	CCV	DSL_250				06/13/18 15:34	1.0	5
067	163a067	CCV	MO_500				06/13/18 15:59	1.0	3
068	163a068	X	CMARKER				06/13/18 16:25	1.0	1
069	163a069	CHECK	TANK				06/13/18 17:44	1.0	
070	163a070	CHECK	TANK				06/13/18 18:09	1.0	
071	163a071	BLANK	QC935770		Soil	260465	06/13/18 18:35	1.0	
072	163a072	LCS	QC935771		Soil	260465	06/13/18 19:00	1.0	
073	163a073	SAMPLE	300497-033	S	Soil	260454	06/13/18 19:26	2.0	
074	163a074	SAMPLE	300497-034	S	Soil	260454	06/13/18 19:51	2.0	3:BUNKC:12-40=6500
075	163a075	MSS	300482-001		Soil	260465	06/13/18 20:17	3.0	2:BUNKC:12-40=10000
076	163a076	MS	QC935772		Soil	260465	06/13/18 20:42	3.0	2:BUNKC:12-40=10000
077	163a077	MSD	QC935773		Soil	260465	06/13/18 21:07	3.0	2:BUNKC:12-40=9600
078	163a078	IB					06/13/18 21:32	1.0	
079	163a079	BLANK	QC935770	S	Soil	260465	06/13/18 21:58	1.0	
080	163a080	LCS	QC935771	S	Soil	260465	06/13/18 22:23	1.0	
081	163a081	SAMPLE	300490-001	S	Miscell.	260465	06/13/18 22:48	1.0	
082	163a082	SAMPLE	300600-005		Soil	260465	06/13/18 23:14	1.0	
083	163a083	SAMPLE	300600-010		Soil	260465	06/13/18 23:39	1.0	
084	163a084	SAMPLE	300500-001		Soil	260465	06/14/18 00:05	2.0	
085	163a085	SAMPLE	300500-002		Soil	260465	06/14/18 00:30	10.0	
086	163a086	IB					06/14/18 00:56	1.0	
087	163a087	CCV	DSL_500				06/14/18 01:21	1.0	2
088	163a088	CCV	MO_500				06/14/18 01:47	1.0	3
089	163a089	X	CMARKER				06/14/18 02:12	1.0	1
090	163a090	IB					06/14/18 02:38	1.0	
091	163a091	IB	CALIB				06/14/18 03:03	1.0	
092	163a092	ICAL	HEX OTP_5				06/14/18 03:28	1.0	6
093	163a093	ICAL	HEX OTP_10				06/14/18 03:54	1.0	7
094	163a094	ICAL	HEX OTP_25				06/14/18 04:19	1.0	8
095	163a095	ICAL	HEX OTP_50				06/14/18 04:44	1.0	9
096	163a096	ICAL	HEX OTP_100				06/14/18 05:10	1.0	10
097	163a097	ICAL	HEX OTP_200				06/14/18 05:35	1.0	11
098	163a098	IB	CALIB				06/14/18 06:01	1.0	
099	163a099	CMARKER	C8-C50				06/14/18 06:27	1.0	12
100	163a100	IB	CALIB				06/14/18 06:52	1.0	
101	163a101	CCV	DSL_250				06/14/18 07:27	1.0	5
102	163a102	CCV	MO_500				06/14/18 07:53	1.0	3
103	163a103	SAMPLE	300487-001		Soil	260465	06/14/18 08:36	5.0	
104	163a104	SAMPLE	300476-001		Soil	260465	06/14/18 09:01	5.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978235089

Instrument : GC27A Begun : 06/12/18 06:09
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
105	163a105	SAMPLE	300629-006		Soil	260485	06/14/18 09:30	1.0	
106	163a106	SAMPLE	300629-007		Soil	260485	06/14/18 09:56	1.0	
107	163a107	SAMPLE	300629-008		Soil	260485	06/14/18 10:21	1.0	
108	163a108	SAMPLE	300629-009		Soil	260485	06/14/18 10:46	1.0	
109	163a109	IB					06/14/18 11:11	1.0	
110	163a110	CCV	DSL_1000				06/14/18 11:37	1.0	4
111	163a111	CCV	MO_500				06/14/18 12:02	1.0	3
112	163a112	X	CMARKER				06/14/18 12:27	1.0	1
113	163a113	SAMPLE	300544-004	S	Soil	260485	06/14/18 15:31	2.0	3:BUNKC:12-40=12000
114	163a114	SAMPLE	300544-008	S	Soil	260485	06/14/18 15:56	2.0	4:BUNKC:12-40=12000
115	163a115	SAMPLE	300544-012	S	Soil	260485	06/14/18 16:21	2.0	2:BUNKC:12-40=5900
116	163a116	SAMPLE	300603-001	S	Soil	260485	06/14/18 16:46	1.0	2:BUNKC:12-40=6800
117	163a117	SAMPLE	300603-002	S	Soil	260485	06/14/18 17:12	1.0	6:BUNKC:12-40=22000
118	163a118	IB					06/14/18 17:37	1.0	
119	163a119	SAMPLE	300544-008	S	Soil	260485	06/14/18 18:02	5.0	
120	163a120	SAMPLE	300603-002	S	Soil	260485	06/14/18 18:27	5.0	
121	163a121	IB					06/14/18 18:53	1.0	
122	163a122	CCV	DSL_500				06/14/18 19:18	1.0	2
123	163a123	CCV	MO_500				06/14/18 19:43	1.0	3
124	163a124	X	CMARKER				06/14/18 20:08	1.0	1

CB1 06/12/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 13.

WA1 06/12/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 14 through 23.

CB1 06/15/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 24 through 124.

Standards used: 1=S36439 2=S36757 3=S36833 4=S36227 5=S36285 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S34578

Flags used: sh=out of sample hold

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978256692

Instrument : GC27A
 Method : EPA 8015B

Begun : 06/27/18 06:12
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	178a001	IB					06/27/18 06:12	1.0		
002	178a002	X	CMARKER				06/27/18 06:37	1.0	1	
003	178a003	CCV	DSL_500				06/27/18 07:02	1.0	2	
004	178a004	CCV	MO_500				06/27/18 07:28	1.0	3	
005	178a005	SAMPLE	300978-007		Soil	260847	06/27/18 08:18	20.0		
006	178a006	SAMPLE	300978-015		Soil	260847	06/27/18 08:44	3.0		2:BUNKC:10-40=6000
007	178a007	IB					06/27/18 09:09	1.0		
008	178a008	SAMPLE	300971-001		Water	260813	06/27/18 09:36	1.0		
009	178a009	SAMPLE	300979-001		Water	260813	06/27/18 10:01	1.0		
010	178a010	SAMPLE	301035-001	S	Oil	260887	06/27/18 10:27	1.0		
011	178a011	CCV	DSL_1000				06/27/18 10:52	1.0	4	
012	178a012	CCV	MO_500				06/27/18 11:17	1.0	3	
013	178a013	X	CMARKER				06/27/18 11:43	1.0	1	
014	178a014	X	CMARKER				06/27/18 13:22	1.0	1	
015	178a015	CCV	DSL_500				06/27/18 13:42	1.0	2	
016	178a016	CMARKER	C8-C40				06/27/18 15:36	1.0	1	
017	178a017	CCV	DSL_500				06/27/18 16:01	1.0	2	
018	178a018	CCV	MO_500				06/27/18 16:26	1.0	3	
019	178a019	LCS	QC937473		Soil	260888	06/27/18 17:05	1.0		
020	178a020	MSS	300914-003		Soil	260888	06/27/18 17:30	1.0		
021	178a021	MS	QC937474		Soil	260888	06/27/18 17:55	1.0		
022	178a022	MSD	QC937475		Soil	260888	06/27/18 18:20	1.0		
023	178a023	SAMPLE	301096-001		Soil	260874	06/27/18 18:45	1.0		
024	178a024	SAMPLE	300917-005		Soil	260888	06/27/18 19:10	3.0		2:BUNKC:12-40=6300
025	178a025	IB					06/27/18 19:35	1.0		
026	178a026	SAMPLE	300914-001		Soil	260888	06/27/18 20:01	1.0		
027	178a027	SAMPLE	300914-002		Soil	260888	06/27/18 20:26	1.0		
028	178a028	SAMPLE	300914-004		Soil	260888	06/27/18 20:51	1.0		
029	178a029	SAMPLE	300914-005		Soil	260888	06/27/18 21:16	3.0		1:BUNKC:10-40=5600
030	178a030	IB					06/27/18 21:41	1.0		
031	178a031	SAMPLE	300914-006		Soil	260888	06/27/18 22:07	1.0		
032	178a032	CCV	DSL_250				06/27/18 22:32	1.0	5	
033	178a033	CCV	MO_500				06/27/18 22:58	1.0	3	
034	178a034	X	CMARKER				06/27/18 23:23	1.0	1	
035	178a035	SAMPLE	300914-007		Soil	260888	06/27/18 23:49	1.0		
036	178a036	SAMPLE	300914-008		Soil	260888	06/28/18 00:14	1.0		
037	178a037	SAMPLE	300920-003		Soil	260888	06/28/18 00:39	1.0		
038	178a038	SAMPLE	300920-008		Soil	260888	06/28/18 01:05	1.0		
039	178a039	SAMPLE	300920-013		Soil	260888	06/28/18 01:30	1.0		
040	178a040	IB					06/28/18 01:55	1.0		
041	178a041	SAMPLE	300920-020		Soil	260888	06/28/18 02:21	1.0		
042	178a042	SAMPLE	300920-027		Soil	260888	06/28/18 02:46	1.0		
043	178a043	SAMPLE	300920-032		Soil	260888	06/28/18 03:11	1.0		
044	178a044	SAMPLE	300920-039		Soil	260888	06/28/18 03:37	1.0		
045	178a045	CCV	DSL_500				06/28/18 04:02	1.0	2	
046	178a046	CCV	MO_500				06/28/18 04:27	1.0	3	
047	178a047	X	CMARKER				06/28/18 04:52	1.0	1	
048	178a048	BLANK	QC937561	S	Soil	260910	06/28/18 06:18	1.0		
049	178a049	LCS	QC937562	S	Soil	260910	06/28/18 06:43	1.0		
050	178a050	SAMPLE	300949-026	S	Soil	260910	06/28/18 07:09	1.0		3:BUNKC:12-40=11000
051	178a051	SAMPLE	300949-029	S	Soil	260910	06/28/18 07:34	1.0		
052	178a052	SAMPLE	300978-021		Soil	260910	06/28/18 08:05	20.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978256692

Instrument : GC27A
 Method : EPA 8015B

Begun : 06/27/18 06:12
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	178a053	SAMPLE	300978-032		Soil	260910	06/28/18 08:30	3.0		2:BUNKC:10-40=7500
054	178a054	SAMPLE	300949-031	S	Soil	260910	06/28/18 08:56	1.0		
055	178a055	BLANK	QC937420		Soil	260874	06/28/18 09:21	1.0		
056	178a056	BS	QC937421		Soil	260874	06/28/18 09:46	1.0		
057	178a057	BSD	QC937422		Soil	260874	06/28/18 10:12	1.0		
058	178a058	SAMPLE	301078-002		Water	260875	06/28/18 10:40	1.0		
059	178a059	CCV	DSL_250				06/28/18 11:09	1.0	5	
060	178a060	CCV	MO_500				06/28/18 11:34	1.0	3	
061	178a061	X	CMARKER				06/28/18 11:59	1.0	1	
062	178a062	SAMPLE	301051-001		Soil	260936	06/28/18 15:40	1.0		
063	178a063	SAMPLE	300956-001		Soil	260936	06/28/18 16:05	10.0		
064	178a064	IB					06/28/18 16:30	1.0		
065	178a065	SAMPLE	301091-001		Soil	260936	06/28/18 16:56	1.0		
066	178a066	SAMPLE	300959-005		Soil	260936	06/28/18 17:21	10.0		5:BUNKC:12-40=18000
067	178a067	IB					06/28/18 17:47	1.0		
068	178a068	SAMPLE	300959-006		Soil	260936	06/28/18 18:12	2.0		
069	178a069	SAMPLE	300959-007		Soil	260936	06/28/18 18:38	10.0		
070	178a070	IB					06/28/18 19:03	1.0		
071	178a071	SAMPLE	300936-001		Miscell.	260936	06/28/18 19:28	1.0		
072	178a072	SAMPLE	300959-005		Soil	260936	06/28/18 19:54	50.0		
073	178a073	CCV	DSL_500				06/28/18 20:19	1.0	2	
074	178a074	CCV	MO_500				06/28/18 20:44	1.0	6	
075	178a075	X	CMARKER				06/28/18 21:09	1.0	1	
076	178a076	SAMPLE	301003-008		Soil	260938	06/28/18 21:34	1.0		
077	178a077	SAMPLE	301003-009		Soil	260938	06/28/18 21:59	1.0		
078	178a078	SAMPLE	301003-010		Soil	260938	06/28/18 22:24	1.0		
079	178a079	SAMPLE	301003-012		Soil	260938	06/28/18 22:49	1.0		
080	178a080	SAMPLE	301003-013		Soil	260938	06/28/18 23:15	1.0		
081	178a081	IB					06/28/18 23:40	1.0		
082	178a082	SAMPLE	301003-014		Soil	260938	06/29/18 00:06	1.0		
083	178a083	SAMPLE	301003-015		Soil	260938	06/29/18 00:31	1.0		
084	178a084	SAMPLE	301003-016		Soil	260938	06/29/18 00:56	1.0		
085	178a085	SAMPLE	301003-017		Soil	260938	06/29/18 01:22	1.0		
086	178a086	SAMPLE	301003-018		Soil	260938	06/29/18 01:47	1.0		
087	178a087	CCV	DSL_500				06/29/18 02:12	1.0	2	
088	178a088	CCV	MO_500				06/29/18 02:38	1.0	3	
089	178a089	X	CMARKER				06/29/18 03:03	1.0	1	
090	178a090	CCV	BUNK_500				06/29/18 06:19	1.0	7	
091	178a091	BLANK	QC937707		Water	260953	06/29/18 10:45	1.0		
092	178a092	BS	QC937708		Water	260953	06/29/18 11:10	1.0		
093	178a093	BSD	QC937709		Water	260953	06/29/18 11:35	1.0		
094	178a094	SAMPLE	301076-025		Water	260953	06/29/18 12:00	1.0		
095	178a095	CCV	DSL_1000				06/29/18 12:26	1.0	4	
096	178a096	CCV	MO_500				06/29/18 12:51	1.0	3	
097	178a097	CCV	BUNK_500				06/29/18 13:17	1.0	7	
098	178a098	X	CMARKER				06/29/18 13:42	1.0	1	
099	178a099	SAMPLE	301097-001		Water	260953	06/29/18 14:43	1.0		
100	178a100	SAMPLE	301097-002		Water	260953	06/29/18 15:08	1.0		
101	178a101	SAMPLE	301097-003		Water	260953	06/29/18 15:34	1.0		
102	178a102	SAMPLE	301097-004		Water	260953	06/29/18 15:59	1.0		
103	178a103	SAMPLE	301111-001		Water	260953	06/29/18 16:24	1.0		
104	178a104	IB					06/29/18 16:50	1.0		

SAMPLE PREPARATION SUMMARY

Batch # : 260936
 Started By : CRC
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 28-JUN-2018 10:33
 Spike #2 ID : S37163

Analysis : TEHM
 Finished By : CRC
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300936-001		Miscell.	49.73	5	1	0.1005		.5				TEHM	Transferred weight from SA3047
300941-001		Soil	49.6	5	1	0.1008		.5				TEHM	See comment 1 below
300956-001		Soil	50.21	5	1	0.09958		.5				TEHM	Transferred weight from SA3051
300959-005		Soil	50.24	5	1	0.09952		.5				TEHM	See comment 2 below
300959-006		Soil	49.72	5	1	0.1006		.5				TEHM	Transferred weight from SA3052
300959-007		Soil	50.23	5	1	0.09954		.5				TEHM	Transferred weight from SA3053
300980-005		Soil	49.59	5	1	0.1008		.5				TEHM	See comment 3 below
300980-010		Soil	49.89	5	1	0.1002		.5				TEHM	Comp of 300980-006-9 @ 80g ea.
301003-021		Soil	49.88	5	1	0.1002		.5				TEHM	See comment 4 below
301003-022		Soil	50.37	5	1	0.09927		.5				TEHM	See comment 5 below
301003-023		Soil	49.58	5	1	0.1008		.5				TEHM	See comment 6 below
301051-001		Soil	49.67	5	1	0.1007		.5				TEHM	Transferred weight from SA3055
301091-001		Soil	49.66	5	1	0.1007		.5				TEHM	Transferred weight from SA3054
301102-001		Miscell.	50.17	5	1	0.09966		.5				TEH	See comment 7 below
301107-002		Soil	50.04	5	1	0.09992		.5				TEHM	See comment 8 below
301107-003		Soil	50.35	5	1	0.0993		.5				TEHM	See comment 9 below
301116-001		Soil	50.45	5	1	0.09911		.5				TEHM	See comment 9 below
301132-001		Soil	49.51	5	1	0.101		.5				TEHM	See comment 9 below
301132-002		Soil	50.09	5	1	0.09982		.5				TEHM	See comment 9 below
301140-005		Soil	49.92	5	1	0.1002		.5				TEHM	See comment 10 below
QC937640	BLANK	Soil	50	5	1	0.1000		.5				TEHM	
QC937641	LCS	Soil	50	5	1	0.1000		.5	1			TEHM	
QC937642	MS	Soil	49.87	5	1	0.1003		.5	1			TEHM	Transferred weight from SA3049
QC937643	MSD	Soil	49.81	5	1	0.1004		.5	1			TEHM	Transferred weight from SA3050
QC937787	MS	Soil	49.64	5	1	0.1007		.5	1			TEHM	See comment 9 below
QC937788	MSD	Soil	49.6	5	1	0.1008		.5	1			TEHM	See comment 9 below

- Comment 1: MSS; Transferred weight from SA3048
- Comment 2: Comp. of 300959-001-4 @ 40g. ea.
- Comment 3: Comp of 300980-001-4 @ 80g. ea.
- Comment 4: Prepped 28-JUN-2018 12:46; Transferred weight from SA3059; A/O ALE
- Comment 5: Prepped 28-JUN-2018 12:46; Transferred weight from SA3060; A/O ALE
- Comment 6: Prepped 28-JUN-2018 12:46; Transferred weight from SA3061; A/O ALE
- Comment 7: Prepped 29-JUN-2018 09:41; A/O CRC; Wet, slurry
- Comment 8: Prepped 29-JUN-2018 09:41; A/O CRC; MSS as per client
- Comment 9: Prepped 29-JUN-2018 09:41; A/O CRC
- Comment 10: Prepped 29-JUN-2018 09:41; A/O CRC; Comp. of 301140-001-4 @ 60g. ea.

Analyst: WA1 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

SAMPLE PREPARATION SUMMARY

Batch # : 260938
 Started By : ALE
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 28-JUN-2018 12:16
 Spike #2 ID : S37163

Analysis : TEHM
 Finished By : ALE
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
301003-001		Soil	50.3	5	1	0.0994		.5				TEHM	Transferred weight from SA3080
301003-002		Soil	49.75	5	1	0.1005		.5				TEHM	Transferred weight from SA3079
301003-003		Soil	49.67	5	1	0.1007		.5				TEHM	Transferred weight from SA3078
301003-004		Soil	49.89	5	1	0.1002		.5				TEHM	Transferred weight from SA3077
301003-005		Soil	49.62	5	1	0.1008		.5				TEHM	Transferred weight from SA3076
301003-006		Soil	49.97	5	1	0.1001		.5				TEHM	Transferred weight from SA3075
301003-007		Soil	49.91	5	1	0.1002		.5				TEHM	Transferred weight from SA3074
301003-008		Soil	50.43	5	1	0.09915		.5				TEHM	Transferred weight from SA3073
301003-009		Soil	50.37	5	1	0.09927		.5				TEHM	See comment 1 below
301003-010		Soil	49.76	5	1	0.1005		.5				TEHM	Transferred weight from SA3071
301003-011		Soil	49.9	5	1	0.1002		.5				TEHM	Transferred weight from SA3056
301003-012		Soil	49.75	5	1	0.1005		.5				TEHM	Transferred weight from SA3070
301003-013		Soil	50.22	5	1	0.09956		.5				TEHM	Transferred weight from SA3069
301003-014		Soil	49.83	5	1	0.1003		.5				TEHM	Transferred weight from SA3068
301003-015		Soil	49.91	5	1	0.1002		.5				TEHM	See comment 2 below
301003-016		Soil	50.34	5	1	0.09932		.5				TEHM	See comment 3 below
301003-017		Soil	49.68	5	1	0.1006		.5				TEHM	See comment 4 below
301003-018		Soil	49.55	5	1	0.1009		.5				TEHM	See comment 5 below
301003-019		Soil	49.78	5	1	0.1004		.5				TEHM	See comment 6 below
301003-020		Soil	50.46	5	1	0.09909		.5				TEHM	See comment 7 below
QC937650	BLANK	Soil	50	5	1	0.1000		.5				TEHM	
QC937651	LCS	Soil	50	5	1	0.1000		.5	1			TEHM	
QC937652	MS	Soil	49.63	5	1	0.1007		.5	1			TEHM	Transferred weight from SA3057
QC937653	MSD	Soil	49.72	5	1	0.1006		.5	1			TEHM	Transferred weight from SA3058

Comment 1: Transferred weight from SA3072; small spill during first pour
 Comment 2: Prepped 28-JUN-2018 12:46; Transferred weight from SA3067; A/O ALE
 Comment 3: Prepped 28-JUN-2018 12:46; Transferred weight from SA3066; A/O ALE
 Comment 4: Prepped 28-JUN-2018 12:46; Transferred weight from SA3065; A/O ALE
 Comment 5: Prepped 28-JUN-2018 12:46; Transferred weight from SA3064; A/O ALE
 Comment 6: Prepped 28-JUN-2018 12:46; Transferred weight from SA3063; A/O ALE
 Comment 7: Prepped 28-JUN-2018 12:46; Transferred weight from SA3062; A/O ALE

Analyst: WA1 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

LIMS Batch No: 260938
 LIMS Analysis: TEHM
 Date Extracted: 6/28/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

LIMS Batch No: _____
 LIMS Analysis: _____
 Date Extracted: _____

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
301003-001	D	transferred	✓ 5.0	<input type="checkbox"/>	
	02		✓ 5.0	<input type="checkbox"/>	
	03		✓ 5.0	<input type="checkbox"/>	
	04		✓ 5.0	<input type="checkbox"/>	
	05		✓ 5.0	<input type="checkbox"/>	
	06		✓ 5.0	<input type="checkbox"/>	
	07		✓ 5.0	<input type="checkbox"/>	
	08		✓ 5.0	<input type="checkbox"/>	
	09		✓ 5.0	<input type="checkbox"/>	small spill during first pour
	10		✓ 5.0	<input type="checkbox"/>	
	11		✓ 5.0	<input type="checkbox"/>	MSS
	12		✓ 5.0	<input type="checkbox"/>	
	13		✓ 5.0	<input type="checkbox"/>	
	14		✓ 5.0	<input type="checkbox"/>	
	15		✓ 5.0	<input type="checkbox"/>	ALONE 6/28/18 12:46
	16		✓ 5.0	<input type="checkbox"/>	
	17		✓ 5.0	<input type="checkbox"/>	
	18		✓ 5.0	<input type="checkbox"/>	
	19		✓ 5.0	<input type="checkbox"/>	
	20		✓ 5.0	<input type="checkbox"/>	
MB QC 937650	N/A	50.00	✓ 5.0	<input type="checkbox"/>	
LCS	1	N/A	✓ 5.0	<input type="checkbox"/>	
MS	2	D transferred	✓ 5.0	<input type="checkbox"/>	
MSD	3	D	✓ 5.0	<input type="checkbox"/>	
			<input type="checkbox"/> 5.0	<input type="checkbox"/>	ASI 6/28/18

MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-15 Has been calibrated? Yes No

Mfg & Lot # / LIMS # / Time Date/In

Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples

Samples were dried with CH2Cl2-rinsed powdered Na2SO4

0.5 mL of Surrogate solution was added to all samples

1.0 mL of Spike solution was added to all spikes

1:1 CH2Cl2 (lot# EMS8072):Acetone (lot# HDT967) was added to all

Solvent added at (time)

Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone

Extracts filtered through baked, rinsed powdered Na2SO4

Concentrated to final volume in boiling H2O bath

Relinquished to TEH Department

EM161285002	6-28-18	ALF 6/28/18
EM0677C502	6-28-18/EM18B21S6592	
S37162B		
S37163C		
12:16/12:46		
EM18B21S6592		
✓		

AR 6/28/18
 Extraction Chemist / Date

Continued from page
 Continued on page

 6/28/18
 Reviewed by / Date Extract

Laboratory Job Number 301003

ANALYTICAL REPORT

Wet Chemistry

Matrix: Soil

Moisture			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	METHOD
Project#:	285830.02.01	Analysis:	ASTM D2216-98/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Matrix:	Soil	Sampled:	06/25/18
Units:	%	Received:	06/25/18

Field ID	Lab ID	Result	RL	Batch#	Analyzed
BR11-1GW01[3]	301003-001	16	1	260927	06/27/18
BR11-1GW01[5]	301003-002	16	1	260927	06/27/18
BR11-1GW01[7]	301003-003	15	1	260927	06/27/18
BR11-1GW01[10]	301003-004	15	1	260927	06/27/18
BR11-1GW01[15]	301003-005	15	1	260927	06/27/18
BR11-1GW01[20]	301003-006	14	1	260927	06/27/18
BR11-1GW01[25]	301003-007	18	1	260927	06/27/18
BR11-1GW01[30]	301003-008	17	1	260927	06/27/18
BR11-1GW01[35]	301003-009	9	1	260927	06/27/18
BR11-1GW01[40]	301003-010	13	1	260927	06/27/18
BR11-1GW01[45]	301003-011	8	1	260927	06/27/18
BR11-1GW01[49]	301003-012	11	1	260927	06/27/18
DUP06252018-01	301003-013	16	1	260927	06/27/18
BR11-1SB011[3]	301003-014	16	1	260927	06/27/18
BR11-1SB011[5]	301003-015	16	1	260927	06/27/18
BR11-1SB011[7]	301003-016	16	1	260927	06/27/18
BR11-1SB011[10]	301003-017	13	1	260927	06/27/18
BR11-1SB011[15]	301003-018	15	1	260927	06/27/18
BR11-1SB011[20]	301003-019	13	1	260927	06/27/18
BR11-1SB011[25]	301003-020	17	1	260927	06/27/18
BR11-1SB011[30]	301003-021	18	1	260928	06/28/18
BR11-1SB011[35]	301003-022	6	1	260928	06/28/18
DUP06252018-02	301003-023	14	1	260928	06/28/18

RL= Reporting Limit

Batch QC Report

Moisture			
Lab #:	301003	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	METHOD
Project#:	285830.02.01	Analysis:	ASTM D2216-98/CLP
Analyte:	Moisture, Percent	Units:	%
Type:	SDUP	Diln Fac:	1.000
Matrix:	Soil		

Field ID	MSS Lab ID	Lab ID	MSS Result	Result	RL	RPD	Lim	Batch#	Sampled	Received	Analyzed
BR11-1GW01[5]	301003-002	QC937614	15.82	15.77	1.000	0	26	260927	06/25/18	06/25/18	06/27/18
ZZZZZZZZZZ	300950-002	QC937615	7.760	8.090	1.000	4	26	260928	06/20/18	06/22/18	06/28/18

RL= Reporting Limit

RPD= Relative Percent Difference



Percent Moisture Summary Report

Batch: 260928
 Date: 06/28/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
300950-001	11.19	18.55	18.20	95	5
300950-002	11.38	19.37	18.75	92	8
300950-003	11.30	18.26	17.54	90	10
300950-004	11.28	18.24	17.94	96	4
300950-005	10.95	18.63	18.17	94	6
300950-006	11.18	17.48	17.15	95	5
301003-021	11.11	17.51	16.37	82	18
301003-022	11.25	17.82	17.43	94	6
301003-023	11.22	18.63	17.61	86	14
301076-001	11.20	17.81	16.42	79	21
301076-002	11.60	17.34	16.21	80	20
301076-003	11.12	18.31	17.33	86	14
301076-004	11.31	17.97	17.07	86	14
301076-005	11.34	16.90	16.06	85	15
301076-006	10.98	18.47	17.55	88	12
301076-007	11.13	17.87	17.00	87	13
301076-008	11.32	18.51	17.53	86	14
301076-009	11.28	17.81	16.87	86	14
301076-010	11.26	17.09	16.24	85	15
301076-011	10.93	17.51	16.83	90	10
QC937615	11.21	18.75	18.14	92	8
of 300950-002			RPD:	0.4%	4.2%

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

LIMS Batch #: 260928
 Date: 6-28-18

Page: 64
 Benchbook#: BK 4277

Balance ID: B-13
 calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLK	4	11.23	∅	11.23	
300950-001 G	6	11.19	18.55	18.20	
-002 M	65	11.38	19.37	18.75	
-003 G	87	11.39	18.26	17.54	
-004	72	11.28	18.24	17.94	
-005	7	10.95	18.63	18.17	
↓ -006 ↓	80	11.18	17.48	17.15	
301003-021 D	78	11.11	17.51	16.37	
-022	89	11.25	17.82	17.43	
↓ -023	83	11.22	18.63	17.61	
301076-001	69	11.20	17.81	16.42	
-002	15	11.60	17.34	16.21	
-003	13	11.12	18.31	17.33	
-004	5	11.31	17.97	17.07	
-005	16	11.34	16.90	16.06	
-006	3	10.98	18.47	17.55	
-007	1	11.13	17.87	17.00	
-008	2	11.32	18.51	17.53	
-009	9	11.28	17.81	16.87	
-010	70	11.24	17.09	16.24	
↓ -011 ↓	8	10.93	17.51	16.83	
300950-002 M	67	11.21	18.75	18.14	SDUP
DES 6-28-18					

	In	Out	In-2	Out-2
Date:	6-28-18	6-28-18		
Time:	0110	16:26		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MN	DES		

MN 6-28-18
 Analyst Initials / Date

Reviewed Online / See LIMS

DATE	0.2 g	SET#	500.9	SET#	INITIALS
6-10-18	0.20	40417	499.94	28659	VV
6-11-18	0.20	40417	499.93	28659	MV
6-12-18	0.20	40417	499.95	28659	MV
6-13-18	0.20	40417	499.94	28659	MV
6-14-18	0.20	40417	499.93	28659	VV
6-15-18	0.20	40417	499.93	28659	MV
6-16-18	0.20	40417	499.94	28659	MV
6-17-18	0.20	40417	499.93	28659	VV
6-18-18	0.20	40417	499.96	28659	MV
6-19-18	0.20	40417	499.95	28659	MV
6-20-18	0.20	40417	499.93	28659	MV
6-21-18	0.20	40417	499.93	28659	MV
6-22-18	0.20	40417	499.94	28659	MV
6-23-18	0.20	40417	499.93	28659	MV
6-26-18	0.20	40417	499.96	28659	MV
6-27-18	0.20	40417	499.97	28659	MV
6-28-18	0.20	40417	499.95	28659	MV

Continued on Page

Read and Understood By

Signed

Date

Signed

Date

Percent Moisture Summary Report

Batch: 260927
 Date: 06/27/18
 Method: CLP SOW 390
 Analyst: DES

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
301003-001	11.34	17.31	16.33	84	16
301003-002	10.87	17.19	16.19	84	16
301003-003	11.25	17.15	16.27	85	15
301003-004	11.25	17.42	16.51	85	15
301003-005	11.28	17.57	16.65	85	15
301003-006	11.60	17.56	16.74	86	14
301003-007	11.32	16.89	15.88	82	18
301003-008	11.03	16.05	15.22	83	17
301003-009	11.00	16.89	16.37	91	9
301003-010	11.02	16.44	15.75	87	13
301003-011	11.07	16.44	16.00	92	8
301003-012	11.30	17.00	16.38	89	11
301003-013	11.26	16.56	15.69	84	16
301003-014	10.90	17.09	16.13	84	16
301003-015	11.12	16.36	15.51	84	16
301003-016	11.03	16.28	15.46	84	16
301003-017	11.26	17.36	16.54	87	13
301003-018	11.42	16.87	16.03	85	15
301003-019	11.29	18.34	17.45	87	13
301003-020	11.34	17.42	16.38	83	17
QC937614	11.29	17.63	16.63	84	16
of 301003-002			RPD:	0.1%	0.3%

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

LIMS Batch #: 260927
 Date: 6-27-18

Page: 63
 Benchmark#: BK 4277

Balance ID: B-13
 calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLANK	44	11.22	∅	11.22	
301003-001 D	56	11.34	17.31	16.33	
-002	33	10.81	17.19	16.19	
-003	43	11.25	17.15	16.27	
-004	52	11.25	17.42	16.51	
-005	32	11.28	17.57	16.65	
-006	31	11.60	17.56	16.74	
-007	85	11.32	16.89	15.88	
-008	10	11.03	16.05	15.22	
-009	34	11.00	16.89	16.37	
-010	62	11.02	16.44	15.75	
-011	24	11.07	16.44	16.00	
-012	54	11.30	17.00	16.38	
-013	68	11.26	16.56	15.69	
-014	20	10.90	17.09	16.13	
-015	79	11.12	16.36	15.51	
-016	14	11.03	16.28	15.46	
-017	61	11.26	17.35	16.54	
-018	77	11.42	16.87	16.03	
-019	88	11.29 11.29	18.34	17.45	
-020	86	11.32 11.34	17.42	16.38	
✓ SDWP - 002 ✓ see comment	17	11.29	17.63	16.63	-002
DES 6-27-18					

	In	Out	In-2	Out-2
Date:	6-27-18	6-28-18		
Time:	21:58	16:04		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	DES	DES		

DES 6-27-18
 Analyst Initials / Date

Reviewed Online / See LIMS

DATE	O.Z.	SET#	500.g	SET#	INITIALS
6-10-18	0.20	40417	499.94	28659	VV
6-11-18	0.20	40417	499.93	28659	MV
6-12-18	0.20	40417	499.95	28659	MV
6-13-18	0.20	40417	499.94	28659	MV
6-14-18	0.20	40417	499.93	28659	VV
6-15-18	0.20	40417	499.93	28659	MV
6-16-18	0.20	40417	499.94	28659	MV
6-17-18	0.20	40417	499.93	28659	VV
6-18-18	0.20	40417	499.96	28659	MV
6-19-18	0.20	40417	499.95	28659	MV
6-20-18	0.20	40417	499.93	28659	MV
6-21-18	0.20	40417	499.93	28659	MV
6-22-18	0.20	40417	499.94	28659	MV
6-23-18	0.20	40417	499.93	28659	MV
6-24-18	0.20	40417	499.96	28659	MV
6-27-18	0.20	40417	499.97	28659	MV
6-28-18	0.20	40417	499.95	28659	MV

Continued on Page

Read and Understood By

Signed

Date

Signed

Date



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 301076 ANALYTICAL REPORT

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Avenue
Level : III

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW02[3]	301076-001	BR11-1GW03 [3]	301076-014
BR11-1GW02[5]	301076-002	BR11-1GW03 [5]	301076-015
BR11-1GW02[7]	301076-003	BR11-1GW03 [7]	301076-016
BR11-1GW02[10]	301076-004	BR11-1GW03 [10]	301076-017
BR11-1GW02[15]	301076-005	BR11-1GW03 [15]	301076-018
BR11-1GW02[20]	301076-006	BR11-1GW03 [20]	301076-019
BR11-1GW02[25]	301076-007	BR11-1GW03 [25]	301076-020
BR11-1GW02[30]	301076-008	BR11-1GW03 [30]	301076-021
BR11-1GW02[35]	301076-009	BR11-1GW03 [35]	301076-022
BR11-1GW02[40]	301076-010	DUP06262018-01	301076-023
BR11-1GW02[45]	301076-011	TB06262018	301076-024
BR11-1GW02[50]	301076-012	BR11-1GW03[3]RB03[5]	301076-025
DUP06252018-03	301076-013		

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Mike Dahlquist
Project Manager

mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

Date: 07/09/2018

CASE NARRATIVE

Laboratory number: 301076
Client: TRC Solutions
Project: 285830.02.01
Location: Riley Avenue
Request Date: 06/26/18
Samples Received: 06/26/18

This data package contains sample and QC results for twenty three soil samples and two water samples, requested for the above referenced project on 06/26/18. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B) Water:

Gasoline C7-C12, m,p-xylenes, and o-xylene were detected between the MDL and the RL in the method blank for batch 260950; these analytes were not detected in the sample at or above the RL.

TB06262018 (lab # 301076-024) was analyzed with more than 1 mL of headspace in the VOA vial.

No other analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:

High response was observed for gasoline C7-C12 in the CCV analyzed 06/29/18 19:35; affected data was qualified with "b".

Low recoveries were observed for gasoline C7-C12 in the MS/MSD for batch 261094; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.

Low recoveries were observed for gasoline C7-C12 in the MS/MSD for batch 261094; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260993; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260999; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 261057; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 261094; this analyte was not detected in the sample at or above the RL.

No other analytical problems were encountered.

CASE NARRATIVE

Laboratory number: 301076
Client: TRC Solutions
Project: 285830.02.01
Location: Riley Avenue
Request Date: 06/26/18
Samples Received: 06/26/18

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

No analytical problems were encountered.

Moisture (ASTM D2216-98/CLP):

No analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY

Enthalpy Analytical LLC
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

C&T LOGIN # 301076

Project No: 285830.02.01
Project Name: Riley Avenue
EDD Format: TRC EQUIS Rpt Level: I III IV
Turnaround Time: RUSH Standard

Sampler: Kevin Li, Nate Berube
Report To: Alfonso Ang
Company: TRC Solutions
Telephone: 415-786-7830
Email: aang@trcsolutions.com

Lab No.	Sample ID.	Date	Time	Matrix	# of Containers	Chemical Preservative	Moisture	Analytical Request
	BR11-1GW02[3]	6/25/18	15:10	X	4	HCl	X	
	BR11-1GW02[5]		15:12	X	4	HNO ₃	X	
	BR11-1GW02[7]		15:22	X	4	H ₂ SO ₄	X	
	BR11-1GW02[10]		15:30	X	4	MeOH	X	
	BR11-1GW02[15]		15:40	X	4	NaOH	X	
	BR11-1GW02[20]		15:48	X	4		X	
	BR11-1GW02[25]		15:55	X	4		X	
	BR11-1GW02[30]		16:05	X	4		X	
	BR11-1GW02[35]		16:20	X	4		X	
	BR11-1GW02[40]		16:30	X	4		X	
	BR11-1GW02[45]		16:35	X	4		X	
	BR11-1GW02[50]		16:50	X	4		X	
	D490625 2018 - 03		16:30	X	4		X	

RECEIVED BY: *[Signature]* 6-26-18 1835 DATE/TIME

RELINQUISHED BY: *[Signature]* 6/26/18 16:00 DATE/TIME

Notes: Include Geotracker EDF
All results to be reported on a dry weight basis. No silica gel cleanup
Please email cc the following:
jhanzel-durbin@trcsolutions.com, kli@trcsolutions.com
mpatinkin@trcsolutions.com, nberube@trcsolutions.com
smilcan@trcsolutions.com

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 301076 Client: TPE
 Date Received: 6-26-18 Project: Riley Avenue

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun # A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 6-26-18 By (print) kp (sign) kp
 Shipping Info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important : Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 2.0, #2: 5.3, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	X		
Were Method 5035 sampling containers present?	X		
If YES, what time were they transferred to freezer? <u>12:00</u>			
Did all bottles arrive unbroken/unopened?	X		
Are there any missing / extra samples?		X	
Are samples in the appropriate containers for indicated tests?	X		
Are sample labels present, in good condition and complete?	X		
Does the container count match the COC?	X		
Do the sample labels agree with custody papers?	X		
Was sufficient amount of sample sent for tests requested?	X		
Did you change the hold time in LIMS for unpreserved VOAs?			X
Did you change the hold time in LIMS for preserved terracores?	X		
Are bubbles > 6mm absent in VOA samples?		X	
Was the client contacted concerning this sample delivery?		X	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			X
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:

Explanations/Comments: Sample 24 - 4 VOAs arrived containing bubbles

Date Logged in 6/27/18 By (print) VS (sign) VS
 Date Labeled 6-27-18 By (print) TPE (sign) TPE

Detections Summary for 301076

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions
 Project : 285830.02.01
 Location : Riley Avenue

Client Sample ID : BR11-1GW02[3] Laboratory Sample ID : 301076-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.019	J	0.20	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.5	Y	1.3	0.39	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	9.9		6.3	1.9	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW02[5] Laboratory Sample ID : 301076-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.015	J	0.21	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.7	Y	1.3	0.38	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	22		6.3	1.9	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW02[7] Laboratory Sample ID : 301076-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.017	J	0.17	0.0088	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.7	Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	4.5	J	5.8	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW02[10] Laboratory Sample ID : 301076-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.013	J	0.16	0.0084	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.37	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW02[15] Laboratory Sample ID : 301076-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.013	J	0.16	0.0082	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.69	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW02[20] Laboratory Sample ID : 301076-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.015	J	0.15	0.0080	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.94	J,Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	3.4	J	5.7	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW02[25]

Laboratory Sample ID : 301076-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.016	J	0.16	0.0086	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.5	Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	5.5	J	5.8	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW02[30]

Laboratory Sample ID : 301076-008

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.019	J	0.16	0.0084	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.49	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW02[35]

Laboratory Sample ID : 301076-009

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.017	J	0.18	0.0092	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.76	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	3.2	J	5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW02[40]

Laboratory Sample ID : 301076-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.012	J	0.18	0.0093	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.40	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW02[45]

Laboratory Sample ID : 301076-011

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.064	J	1.2	0.062	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.36	J,Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW02[50]

Laboratory Sample ID : 301076-012

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.020	J	0.20	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035

Client Sample ID : DUP06252018-03

Laboratory Sample ID : 301076-013

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.015	J	0.18	0.0094	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035

Client Sample ID : BR11-1GW03 [3]

Laboratory Sample ID : 301076-014

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.016	J	0.16	0.0086	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	4.9	Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	18		5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW03 [5]

Laboratory Sample ID : 301076-015

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.020	J	0.24	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.4	Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	4.9	J	5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW03 [7]

Laboratory Sample ID : 301076-016

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.016	J	0.17	0.0089	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035

Client Sample ID : BR11-1GW03 [10]

Laboratory Sample ID : 301076-017

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.084	J	0.20	0.015	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.98	J,Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	2.2	J	5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW03 [15]

Laboratory Sample ID : 301076-018

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.072	J	0.17	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.2	Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	4.3	J	5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW03 [20]

Laboratory Sample ID : 301076-019

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.042	J	0.16	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.79	J,Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	2.1	J	5.8	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW03 [25]

Laboratory Sample ID : 301076-020

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.014	J	0.17	0.0090	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.42	J,Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW03 [30]

Laboratory Sample ID : 301076-021

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.012	J	0.19	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.48	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1GW03 [35]

Laboratory Sample ID : 301076-022

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.022	J	0.15	0.0078	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.1	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	2.3	J	5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : DUP06262018-01

Laboratory Sample ID : 301076-023

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.016	J	0.17	0.0088	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.70	J,Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	1.8	J	5.8	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : TB06262018

Laboratory Sample ID : 301076-024

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	24	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B

Client Sample ID : BR11-1GW03[3]RB03[5]

Laboratory Sample ID : 301076-025

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	200	Y,Z	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	100	J,Y	300	96	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Bunker C C12-C40	660	Y,Z	300		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Z = Sample exhibits unknown single peak or peaks

Laboratory Job Number 301076

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Water

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01		
Field ID:	TB06262018	Batch#:	260950
Matrix:	Water	Sampled:	06/26/18
Units:	ug/L	Received:	06/26/18
Diln Fac:	1.000	Analyzed:	06/28/18

Type: SAMPLE Lab ID: 301076-024

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	24 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.11	EPA 8021B
Ethylbenzene	ND	0.50	0.10	EPA 8021B
m,p-Xylenes	ND	0.50	0.14	EPA 8021B
o-Xylene	ND	0.50	0.11	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	90	79-120	EPA 8015B
Bromofluorobenzene (PID)	90	71-127	EPA 8021B

Type: BLANK Lab ID: QC937700

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	20 J	50	11	EPA 8015B
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.11	EPA 8021B
Ethylbenzene	ND	0.50	0.10	EPA 8021B
m,p-Xylenes	0.26 J	0.50	0.13	EPA 8021B
o-Xylene	0.20 J	0.50	0.14	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	85	79-120	EPA 8015B
Bromofluorobenzene (PID)	87	71-127	EPA 8021B

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC937695	Batch#:	260950
Matrix:	Water	Analyzed:	06/28/18
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,007	101	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	87	79-120

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8021B
Matrix:	Water	Batch#:	260950
Units:	ug/L	Analyzed:	06/28/18
Diln Fac:	1.000		

Type: BS Lab ID: QC937696

Analyte	Spiked	Result	%REC	Limits
Benzene	10.00	10.07	101	80-120
Toluene	10.00	9.932	99	80-120
Ethylbenzene	10.00	10.05	101	79-120
m,p-Xylenes	10.00	10.06	101	79-120
o-Xylene	10.00	9.655	97	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	91	71-127

Type: BSD Lab ID: QC937697

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	10.00	9.840	98	80-120	2	20
Toluene	10.00	9.725	97	80-120	2	20
Ethylbenzene	10.00	9.874	99	79-120	2	20
m,p-Xylenes	10.00	9.903	99	79-120	2	20
o-Xylene	10.00	9.473	95	80-120	2	20

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	89	71-127

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	260950
MSS Lab ID:	301108-001	Sampled:	06/27/18
Matrix:	Water	Received:	06/27/18
Units:	ug/L	Analyzed:	06/28/18
Diln Fac:	1.000		

Type: MS Lab ID: QC937698

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	27.86	2,000	2,082	103	80-120

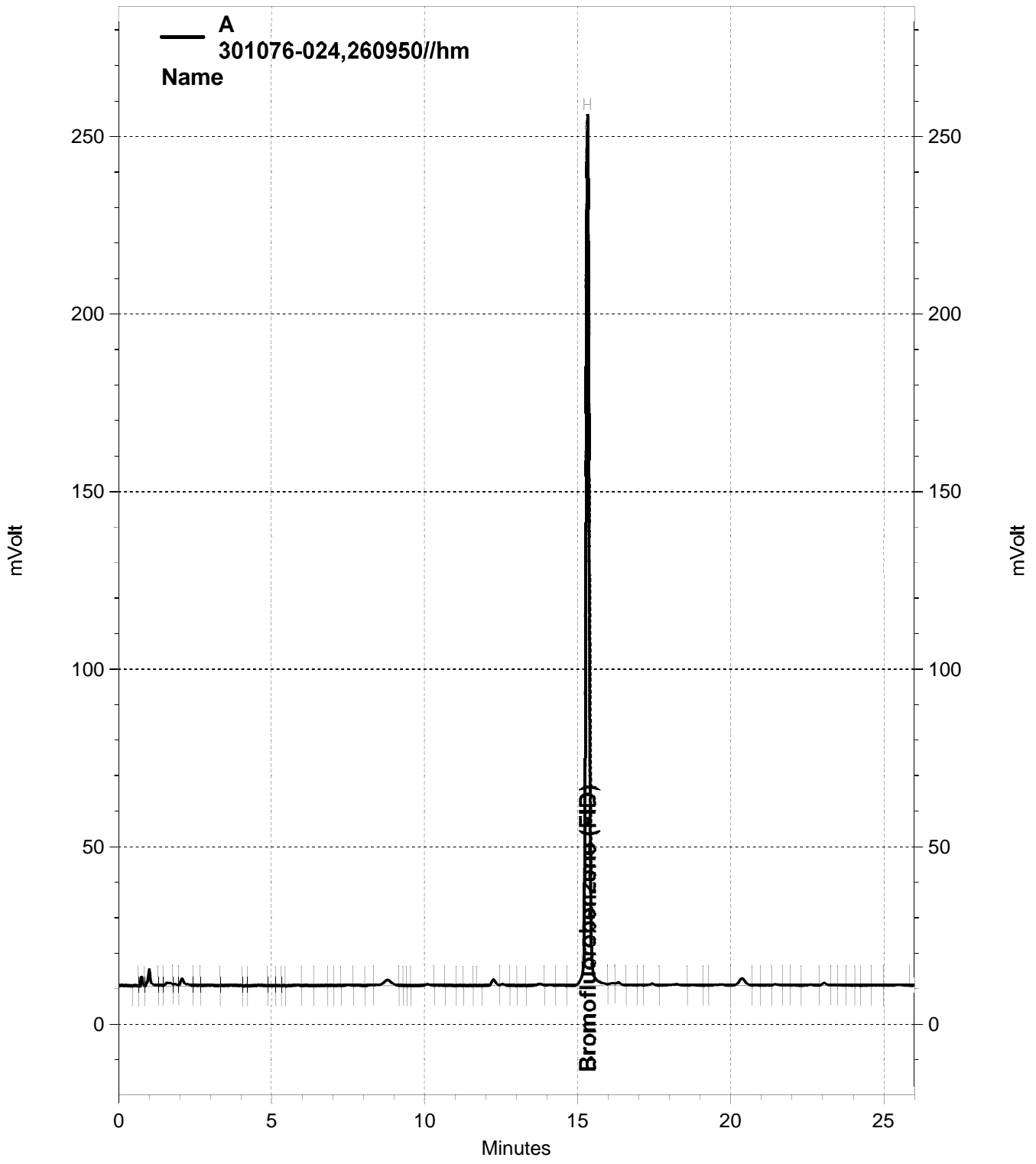
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	79-120

Type: MSD Lab ID: QC937699

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,073	102	80-120	0	20

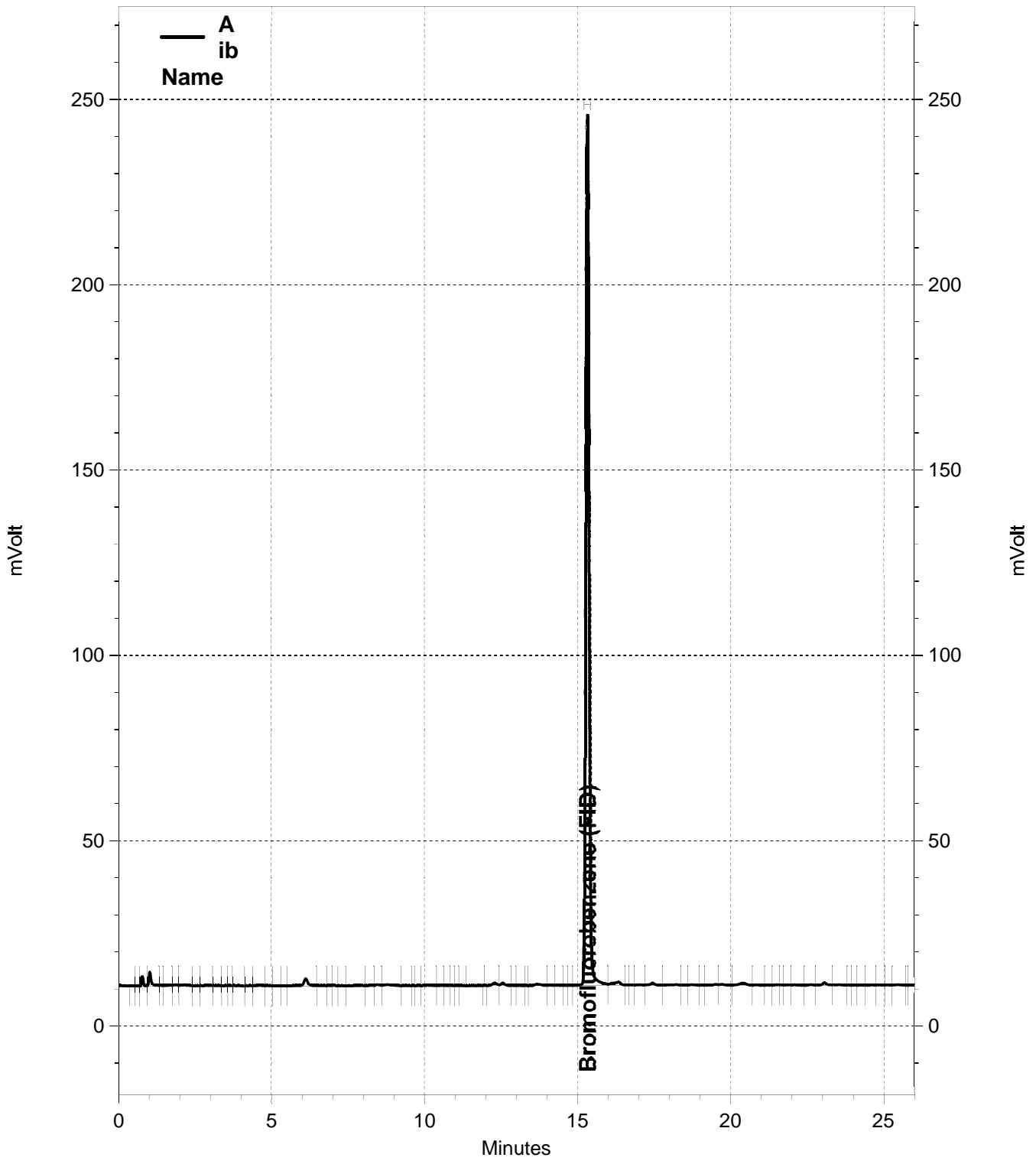
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	79-120

RPD= Relative Percent Difference

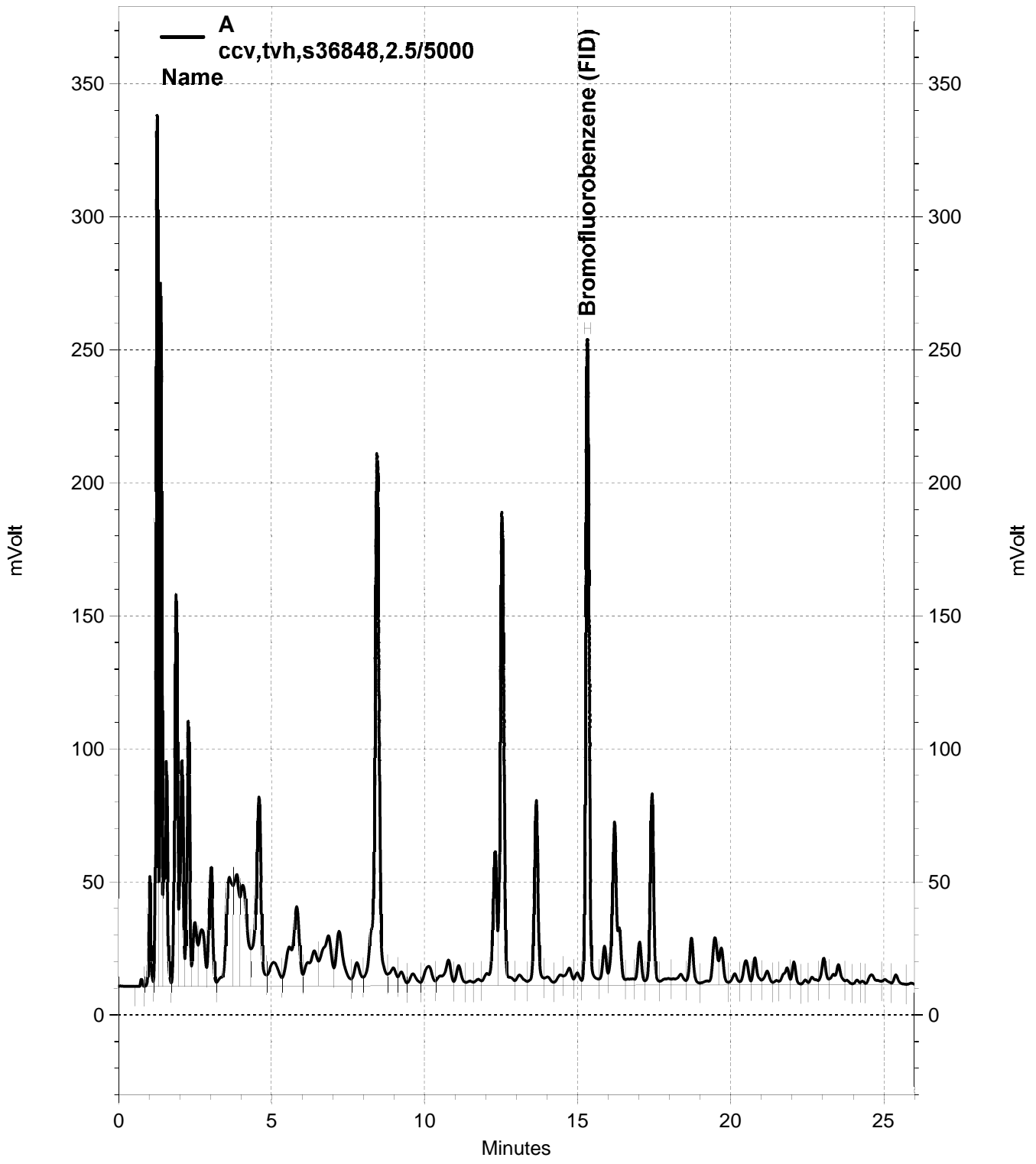


A
301076-024,260950//hm
Name

\\Lims\gdrive\ezchrom\Projects\GC07\Data\179-007, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\179-006, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\179-002, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 301076 GCVOA Water: EPA 8021B

Inst : GC07
 Calnum : 328176634001
 Units : ng

Name : MBTXE_122
 Date : 02-MAY-2018 22:56
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_012	328176634012	BTXE_1	02-MAY-2018 22:56	S35889 (1000X), S36233 (5000X)
L2	122_013	328176634013	MBTXE_2	02-MAY-2018 23:34	S36294 (1250X), S36233 (5000X)
L3	122_014	328176634014	MBTXE_3	03-MAY-2018 00:12	S36294 (500X), S36233 (5000X)
L4	122_015	328176634015	MBTXE_4	03-MAY-2018 00:50	S36294 (125X), S36233 (5000X)
L5	122_016	328176634016	MBTXE_5	03-MAY-2018 01:28	S35887 (1000X), S36233 (5000X)
L6	122_017	328176634017	MBTXE_6	03-MAY-2018 02:07	S35887 (500X), S36233 (5000X)
L7	122_018	328176634018	MBTXE_7	03-MAY-2018 02:45	S35887 (250X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2	%RSD	MnR^2	MxRSD	Flg
Benzene	B	32661	28967	33865	33045	35530	36077	35842	AVRG		2.97E-5		33713	7	0.995	20		
Toluene	B	35850	27715	30543	29993	32299	32713	32236	AVRG		3.16E-5		31621	8	0.995	20		
Ethylbenzene	B	33834	24137	26923	25828	27555	27919	26928	AVRG		3.62E-5		27589	11	0.995	20		
m,p-Xylenes	B	45518	30761	32393	32140	33095	33659	33242	AVRG		2.91E-5		34401	15	0.995	20		
o-Xylene	B	31247	24358	27258	27337	28898	29291	28661	AVRG		3.55E-5		28150	8	0.995	20		
Bromofluorobenzene (PID)	B	25488	25061	24534	24811	25891	26143	26329	AVRG		3.93E-5		25465	3	0.995	20		
Benzene	C	1703.2	1706.2	2146.8	2247.1	2460.9	2462.7	2389.3	AVRG		4.63E-4		2159.5	15	0.995	20		
Toluene	C	1753.6	1588.0	1890.6	2016.8	2223.6	2231.7	2170.5	AVRG		5.05E-4		1982.1	13	0.995	20		
Ethylbenzene	C	1289.2	1252.0	1570.5	1706.8	1871.4	1900.9	1843.8	AVRG		6.12E-4		1633.5	17	0.995	20		
m,p-Xylenes	C	2560.8	1850.1	2117.0	2173.8	2306.7	2311.8	2234.5	AVRG		4.50E-4		2222.1	10	0.995	20		
o-Xylene	C	2204.0	1604.0	1849.9	1872.5	1984.5	1988.5	1930.9	AVRG		5.21E-4		1919.2	9	0.995	20		
Bromofluorobenzene (PID)	C	1775.8	1741.0	1701.0	1707.9	1749.9	1734.9	1719.7	AVRG		5.77E-4		1732.9	1	0.995	20		

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Benzene	B	2.5000	-3	10.000	-14	25.000	0	100.00	-2	500.00	5	1000.0	7	2000.0	6
Toluene	B	2.5000	13	10.000	-12	25.000	-3	100.00	-5	500.00	2	1000.0	3	2000.0	2
Ethylbenzene	B	2.5000	23	10.000	-13	25.000	-2	100.00	-6	500.00	0	1000.0	1	2000.0	-2
m,p-Xylenes	B	2.5000	32	10.000	-11	25.000	-6	100.00	-7	500.00	-4	1000.0	-2	2000.0	-3
o-Xylene	B	2.5000	11	10.000	-13	25.000	-3	100.00	-3	500.00	3	1000.0	4	2000.0	2
Bromofluorobenzene (PID)	B	900.00	0	900.00	-2	900.00	-4	900.00	-3	900.00	2	900.00	3	900.00	3
Benzene	C	2.5000	-21	10.000	-21	25.000	-1	100.00	4	500.00	14	1000.0	14	2000.0	11
Toluene	C	2.5000	-12	10.000	-20	25.000	-5	100.00	2	500.00	12	1000.0	13	2000.0	10
Ethylbenzene	C	2.5000	-21	10.000	-23	25.000	-4	100.00	4	500.00	15	1000.0	16	2000.0	13
m,p-Xylenes	C	2.5000	15	10.000	-17	25.000	-5	100.00	-2	500.00	4	1000.0	4	2000.0	1
o-Xylene	C	2.5000	15	10.000	-16	25.000	-4	100.00	-2	500.00	3	1000.0	4	2000.0	1
Bromofluorobenzene (PID)	C	900.00	2	900.00	0	900.00	-2	900.00	-1	900.00	1	900.00	0	900.00	-1

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301076 GCVOA Water
EPA 8021B

Inst : GC07
Calnum : 328176634001

Name : MBTXE_122
Cal Date : 02-MAY-2018

ICV 328176634020 (122_020 03-MAY-2018) stds: S36861 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	100.0	95.41	ng	-5	15	
Toluene	B	100.0	92.97	ng	-7	15	
Ethylbenzene	B	100.0	92.82	ng	-7	15	
m,p-Xylenes	B	200.0	181.8	ng	-9	15	
o-Xylene	B	100.0	98.35	ng	-2	15	
Benzene	C	100.0	104.6	ng	5	15	
Toluene	C	100.0	102.9	ng	3	15	
Ethylbenzene	C	100.0	108.3	ng	8	15	
m,p-Xylenes	C	200.0	196.8	ng	-2	15	
o-Xylene	C	100.0	101.6	ng	2	15	

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

ENTHALPY INITIAL CALIBRATION FOR 301076 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 328184879001
 Units : ng

Name : TVH_129
 Date : 08-MAY-2018 21:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	128_017	328184879017	TVH_14	08-MAY-2018 21:46	S36893 (1000X), S36233 (5000X)
L2	128_018	328184879018	TVH_15	08-MAY-2018 22:25	S36892 (1000X), S36233 (5000X)
L3	128_019	328184879019	TVH_16	08-MAY-2018 23:03	S36891 (1000X), S36233 (5000X)
L4	128_020	328184879020	TVH_17	08-MAY-2018 23:42	S36890 (2000X), S36233 (5000X)
L5	128_021	328184879021	TVH_18	09-MAY-2018 00:20	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2551.5	2151.4	1868.7	2079.4	2113.6	AVRG		4.64E-4		2152.9	12	0.995	20	
Bromofluorobenzene (FID)	A	2209.5	2170.3	2197.1	2287.3	2435.2	AVRG		4.43E-4		2259.9	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	19	2500.0	0	10000	-13	25000	-3	50000	-2
Bromofluorobenzene (FID)	A	900.00	-2	900.00	-4	900.00	-3	900.00	1	900.00	8

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301076 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 328184879001

Name : TVH_129
Cal Date : 08-MAY-2018

ICV 328184879024 (128_024 09-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8973	ng	-10	15	

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328258306002 File : 179_002 Time : 28-JUN-2018 09:44
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2260.3	5000	5249	ng	5	15	
Bromofluorobenzene (FID)	A	2259.9	1994.9	900.0	794.5	ng	-12	15	

Analyst: JM2 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

ENTHALPY SPIKE USER REPORT FOR 301076 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : QC937696 IDF : 1.0
 Seqnum : 328258306003.3 File : 179_003 Time : 28-JUN-2018 10:23
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	C	2159.5	2173.5	50.00	50.33	ng	1	15	u
Benzene	B	33713	35941	50.00	53.31	ng	7	15	
Toluene	C	1982.1	1968.7	50.00	49.66	ng	-1	15	u
Toluene	B	31621	33859	50.00	53.54	ng	7	15	
Ethylbenzene	C	1633.5	1642.4	50.00	50.27	ng	1	15	u
Ethylbenzene	B	27589	28706	50.00	52.02	ng	4	15	
m,p-Xylenes	C	2222.1	2235.9	50.00	50.31	ng	1	15	u
m,p-Xylenes	B	34401	36233	50.00	52.66	ng	5	15	
o-Xylene	C	1919.2	1852.9	50.00	48.27	ng	-3	15	u
o-Xylene	B	28150	30004	50.00	53.29	ng	7	15	
Bromofluorobenzene (PID)	C	1732.9	1572.6	900.0	816.8	ng	-9	15	u
Bromofluorobenzene (PID)	B	25465	24331	900.0	859.9	ng	-4	15	

Analyst: JM2 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328258306010 File : 179_010 Time : 28-JUN-2018 15:54
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2318.5	10000	10770	ng	8	15	
Bromofluorobenzene (FID)	A	2259.9	2086.1	900.0	830.8	ng	-8	15	

Analyst: JM2 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328258306012 File : 179_012 Time : 28-JUN-2018 17:11
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S36185 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	B	33713	38051	100.0	112.9	ng	13	15	
Toluene	B	31621	34582	100.0	109.4	ng	9	15	
Ethylbenzene	B	27589	29951	100.0	108.6	ng	9	15	
m,p-Xylenes	B	34401	36358	100.0	105.7	ng	6	15	
o-Xylene	B	28150	31895	100.0	113.3	ng	13	15	
Bromofluorobenzene (PID)	B	25465	25133	900.0	888.3	ng	-1	15	
Benzene	C	2159.5	2334.4	100.0	108.1	ng	8	15	
Toluene	C	1982.1	2086.6	100.0	105.3	ng	5	15	
Ethylbenzene	C	1633.5	1759.1	100.0	107.7	ng	8	15	
m,p-Xylenes	C	2222.1	2253.6	100.0	101.4	ng	1	15	
o-Xylene	C	1919.2	1975.5	100.0	102.9	ng	3	15	
Bromofluorobenzene (PID)	C	1732.9	1561.0	900.0	810.8	ng	-10	15	

Analyst: JM2 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328258306023 File : 179_023 Time : 29-JUN-2018 00:11
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2218.6	15000	15460	ng	3	15	
Bromofluorobenzene (FID)	A	2259.9	2182.9	900.0	869.3	ng	-3	15	

Analyst: JM2 Date: 06/29/18 Reviewer: TKM Date: 06/29/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328176634

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/02/18 15:54
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std	Used
001	122_001	IB	CALIB			05/02/18 15:54	1.0	1	
002	122_002	ICAL	TVH_14			05/02/18 16:33	1.0	2	1
003	122_003	ICAL	TVH_15			05/02/18 17:11	1.0	3	1
004	122_004	ICAL	TVH_16			05/02/18 17:49	1.0	4	1
005	122_005	ICAL	TVH_17			05/02/18 18:28	1.0	5	1
006	122_006	ICAL	TVH_18			05/02/18 19:06	1.0	5	1
007	122_007	IB				05/02/18 19:44	1.0	1	
008	122_008	ICV	TVH			05/02/18 20:23	1.0	6	1
009	122_009	X	ICV			05/02/18 21:00	1.0	6	1
010	122_010	CMARKER				05/02/18 21:39	1.0	7	1
011	122_011	IB	CALIB			05/02/18 22:17	1.0	1	
012	122_012	ICAL	BTXE_1			05/02/18 22:56	1.0	8	1
013	122_013	ICAL	MBTXE_2			05/02/18 23:34	1.0	9	1
014	122_014	ICAL	MBTXE_3			05/03/18 00:12	1.0	9	1
015	122_015	ICAL	MBTXE_4			05/03/18 00:50	1.0	9	1
016	122_016	ICAL	MBTXE_5			05/03/18 01:28	1.0	10	1
017	122_017	ICAL	MBTXE_6			05/03/18 02:07	1.0	10	1
018	122_018	ICAL	MBTXE_7			05/03/18 02:45	1.0	10	1
019	122_019	IB				05/03/18 03:23	1.0	1	
020	122_020	ICV	MBTXE			05/03/18 04:01	1.0	11	1
021	122_021	X	ICV			05/03/18 04:40	1.0	11	1

PAW 05/04/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 21.

Reviewed by: PAW Date: 05/04/18

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S35319 8=S35889 9=S36294 10=S35887 11=S36861

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328184879

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/08/18 09:19
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	128_001	X	CMARKER			05/08/18 09:19	1.0	1 2	
002	128_002	CCV	TVH			05/08/18 09:58	1.0	3 2	
003	128_003	CCV/LCS	QC931207	Water	259308	05/08/18 10:36	1.0	4 2	
004	128_004	CCV	TVH			05/08/18 11:15	1.0	3 2	
005	128_005	CCV	BTXE			05/08/18 11:53	1.0	4 2	
006	128_006	BLANK	QC931206	Water	259308	05/08/18 12:31	1.0	2	
007	128_007	MSS	299300-001	Water	259308	05/08/18 15:18	1.0	2	headspace > 1 mL
008	128_008	CCV	BTXE			05/08/18 15:57	1.0	4 2	
011	128_011	IB				05/08/18 17:57	1.0	2	
012	128_012	IB				05/08/18 18:35	1.0	2	
013	128_013	IB				05/08/18 19:13	1.0	2	
014	128_014	IB				05/08/18 19:51	1.0	2	
015	128_015	IB				05/08/18 20:30	1.0	2	
016	128_016	IB	CALIB			05/08/18 21:08	1.0	2	
017	128_017	ICAL	TVH_14			05/08/18 21:46	1.0	5 2	
018	128_018	ICAL	TVH_15			05/08/18 22:25	1.0	6 2	
019	128_019	ICAL	TVH_16			05/08/18 23:03	1.0	7 2	
020	128_020	ICAL	TVH_17			05/08/18 23:42	1.0	8 2	
021	128_021	ICAL	TVH_18			05/09/18 00:20	1.0	8 2	
022	128_022	IB				05/09/18 00:58	1.0	2	
023	128_023	X	ICV			05/09/18 01:37	1.0	9 2	
024	128_024	ICV	TVH			05/09/18 02:15	1.0	9 2	
025	128_025	CMARKER				05/09/18 02:54	1.0	1 2	

Reviewed by: EAH Date: 06/19/18

Standards used: 1=S35319 2=S36233 3=S36103 4=S36185 5=S36893 6=S36892 7=S36891 8=S36890 9=S36894

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328258306

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 06/28/18 09:06
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	179_001	X	CMARKER			06/28/18 09:06	1.0	1 2	
002	179_002	CCV	TVH			06/28/18 09:44	1.0	3 2	
003	179_003	CCV/BS	QC937696	Water	260950	06/28/18 10:23	1.0	4 2	
004	179_004	LCS	QC937695	Water	260950	06/28/18 11:01	1.0	3 2	
005	179_005	BSD	QC937697	Water	260950	06/28/18 11:40	1.0	4 2	
006	179_006	BLANK	QC937700	Water	260950	06/28/18 12:18	1.0	2	
007	179_007	SAMPLE	301076-024	Water	260950	06/28/18 13:35	1.0	2	headspace > 1 mL
008	179_008	SAMPLE	300987-002	Water	260950	06/28/18 14:13	1.0	2	
009	179_009	MSS	301097-003	Water	260950	06/28/18 14:52	1.0	2	
010	179_010	CCV	TVH			06/28/18 15:54	1.0	3 2	
011	179_011	X	CMARKER			06/28/18 16:32	1.0	1 2	
012	179_012	CCV	BTXE			06/28/18 17:11	1.0	4 2	
014	179_014	SAMPLE	301080-003	Water	260950	06/28/18 18:27	1.0	2	
015	179_015	SAMPLE	301080-007	Water	260950	06/28/18 19:06	1.0	2	
016	179_016	SAMPLE	301099-001	Water	260950	06/28/18 19:44	1.0	2	
017	179_017	SAMPLE	301099-002	Water	260950	06/28/18 20:22	1.0	2	
018	179_018	SAMPLE	301099-003	Water	260950	06/28/18 21:00	1.0	2	
019	179_019	SAMPLE	301111-001	Water	260950	06/28/18 21:38	1.0	2	
020	179_020	MSS	301108-001	Water	260950	06/28/18 22:17	1.0	2	
021	179_021	MS	QC937698	Water	260950	06/28/18 22:55	1.0	3 2	
022	179_022	MSD	QC937699	Water	260950	06/28/18 23:33	1.0	3 2	
023	179_023	CCV	TVH			06/29/18 00:11	1.0	3 2	
024	179_024	X	CMARKER			06/29/18 00:49	1.0	1 2	
025	179_025	CCV	BTXE			06/29/18 01:28	1.0	4 2	
026	179_026	SAMPLE	301115-001	Water	260950	06/29/18 02:06	1.0	2	
027	179_027	SAMPLE	301108-002	Water	260950	06/29/18 02:44	1.0	2	
028	179_028	SAMPLE	301108-003	Water	260950	06/29/18 03:22	1.0	2	
029	179_029	SAMPLE	301135-001	Water	260950	06/29/18 04:00	1.0	2	headspace > 1 mL
030	179_030	CCV	TVH			06/29/18 04:39	1.0	3 2	
031	179_031	X	CMARKER			06/29/18 05:17	1.0	1 2	
032	179_032	CCV	BTXE			06/29/18 05:55	1.0	5 2	
033	179_033	CCV	BTXE			06/29/18 06:33	1.0	5 2	
034	179_034	CCV	MS			06/29/18 07:11	1.0	6 2	

JM2 06/29/18 : Run 13 not processed in LIMS.

JM2 06/29/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 34.

Reviewed by: JM2 Date: 06/29/18

Standards used: 1=S35319 2=S37192 3=S36848 4=S36185 5=S37506 6=S37507

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_r3.xls

5mL disposable pipettes, lot #: 09-08-2017

pH paper (<2.5SU), lot: 230315

pH paper (0-14SU), lot: 10620171

Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSVQA?	# unused vials remaining	RR #	DF	Comments	hold	due	Initial/Date
301078-2	A	Y										JY 6/27/18
↓ -2 MS	J	J										
↓ -2 MSD	J	J										
301097-1	A	Y										
↓ -2	J	J										
300987-2	C	N	7									
301078-2 MS	J	Y										JM 6/26/18
↓ -2 MSD	J	J										
301097-3	A	Y										
↓ -4	J	J										
↓ -5	J	J										
↓ -6	J	J										
↓ -7	J	J										
↓ -8	J	J										
↓ -9	J	J										
301076-24	J	J		Y					HM			
301097-3 MS	J	J										
↓ -3 MSD	J	J										
30115-1	A	Y										
301080-3	J	J										
↓ -7	J	N	7									
301099-1	J	Y										
↓ -2	J	J										
↓ -3	J	J										
30111-1	J	J										
301108-1	B	J										
↓ -2	A	J										

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #: 07-08-2017

pH paper (<2.5SU), lot: 230315

pH paper (0-14SU), lot: 102301121

	Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSVOA?	# unused vials remaining	RR #	DF	Comments	hold	due	Push	Initial/Date
1	301108-3	A	Y											J12/6/18/18
2	L-1 MS	B	L											
3	L-1 HSD	L	L											
4	301115-1	B	Y											
5	301135-1	A	Y		Y					HM				
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														

REPORTING SUMMARY FOR 301076 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
301076-024	Gasoline C7-C12	GC07	A	06/28/18 13:35
301076-024	Benzene	GC07	C	06/28/18 13:35
301076-024	Toluene	GC07	C	06/28/18 13:35
301076-024	Ethylbenzene	GC07	C	06/28/18 13:35
301076-024	m,p-Xylenes	GC07	C	06/28/18 13:35
301076-024	o-Xylene	GC07	C	06/28/18 13:35
301076-024	Bromofluorobenzene (FID)	GC07	A	06/28/18 13:35
301076-024	Bromofluorobenzene (PID)	GC07	C	06/28/18 13:35
QC937700	Gasoline C7-C12	GC07	A	06/28/18 12:18
QC937700	Benzene	GC07	C	06/28/18 12:18
QC937700	Toluene	GC07	C	06/28/18 12:18
QC937700	Ethylbenzene	GC07	C	06/28/18 12:18
QC937700	m,p-Xylenes	GC07	B	06/28/18 12:18
QC937700	o-Xylene	GC07	B	06/28/18 12:18
QC937700	Bromofluorobenzene (FID)	GC07	A	06/28/18 12:18
QC937700	Bromofluorobenzene (PID)	GC07	C	06/28/18 12:18
QC937695	Gasoline C7-C12	GC07	A	06/28/18 11:01
QC937695	Bromofluorobenzene (FID)	GC07	A	06/28/18 11:01
QC937696	Benzene	GC07	C	06/28/18 10:23
QC937696	Toluene	GC07	C	06/28/18 10:23
QC937696	Ethylbenzene	GC07	C	06/28/18 10:23
QC937696	m,p-Xylenes	GC07	C	06/28/18 10:23
QC937696	o-Xylene	GC07	C	06/28/18 10:23
QC937696	Bromofluorobenzene (PID)	GC07	C	06/28/18 10:23
QC937697	Benzene	GC07	C	06/28/18 11:40
QC937697	Toluene	GC07	C	06/28/18 11:40
QC937697	Ethylbenzene	GC07	C	06/28/18 11:40
QC937697	m,p-Xylenes	GC07	C	06/28/18 11:40
QC937697	o-Xylene	GC07	C	06/28/18 11:40
QC937697	Bromofluorobenzene (PID)	GC07	C	06/28/18 11:40
QC937698	Gasoline C7-C12	GC07	A	06/28/18 22:55
QC937698	Bromofluorobenzene (FID)	GC07	A	06/28/18 22:55
QC937699	Gasoline C7-C12	GC07	A	06/28/18 23:33
QC937699	Bromofluorobenzene (FID)	GC07	A	06/28/18 23:33

Laboratory Job Number 301076

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Soil

Gasoline by GC/FID (5035 Prep)			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry		

Field ID: BR11-1GW02[3] Batch#: 261057
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-001 Analyzed: 07/02/18
 Moisture: 21%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.019 J	0.20	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	64-134

Field ID: BR11-1GW02[5] Batch#: 261057
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-002 Analyzed: 07/02/18
 Moisture: 20%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.015 J	0.21	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-134

Field ID: BR11-1GW02[7] Batch#: 261057
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-003 Analyzed: 07/02/18
 Moisture: 14%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.017 J	0.17	0.0088

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Field ID: BR11-1GW02[10] Batch#: 261057
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-004 Analyzed: 07/02/18
 Moisture: 14%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.013 J	0.16	0.0084

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

J= Estimated value
 b= See narrative
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry		

Field ID:	BR11-1GW02[15]	Batch#:	261057
Type:	SAMPLE	Sampled:	06/25/18
Lab ID:	301076-005	Analyzed:	07/02/18
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.013 J	0.16	0.0082

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

Field ID:	BR11-1GW02[20]	Batch#:	261057
Type:	SAMPLE	Sampled:	06/25/18
Lab ID:	301076-006	Analyzed:	07/02/18
Moisture:	12%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.015 J	0.15	0.0080

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

Field ID:	BR11-1GW02[25]	Batch#:	261057
Type:	SAMPLE	Sampled:	06/25/18
Lab ID:	301076-007	Analyzed:	07/02/18
Moisture:	13%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.016 J	0.16	0.0086

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Field ID:	BR11-1GW02[30]	Batch#:	261057
Type:	SAMPLE	Sampled:	06/25/18
Lab ID:	301076-008	Analyzed:	07/02/18
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.019 J	0.16	0.0084

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

J= Estimated value
 b= See narrative
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry		

Field ID: BR11-1GW02[35] Batch#: 261057
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-009 Analyzed: 07/02/18
 Moisture: 14%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.017 J	0.18	0.0092

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	64-134

Field ID: BR11-1GW02[40] Batch#: 261057
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-010 Analyzed: 07/02/18
 Moisture: 15%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.012 J	0.18	0.0093

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-134

Field ID: BR11-1GW02[45] Batch#: 261094
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-011 Analyzed: 07/04/18
 Moisture: 10%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.064 J	1.2	0.062

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Field ID: BR11-1GW02[50] Batch#: 261057
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-012 Analyzed: 07/03/18
 Moisture: 8%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.20	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

J= Estimated value
 b= See narrative
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry		

Field ID: DUP06252018-03 Batch#: 261057
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-013 Analyzed: 07/03/18
 Moisture: 17%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.015 J	0.18	0.0094

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

Field ID: BR11-1GW03 [3] Batch#: 261057
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-014 Analyzed: 07/03/18
 Moisture: 15%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.016 J	0.16	0.0086

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

Field ID: BR11-1GW03 [5] Batch#: 261057
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-015 Analyzed: 07/03/18
 Moisture: 14%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.24	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-134

Field ID: BR11-1GW03 [7] Batch#: 261057
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-016 Analyzed: 07/03/18
 Moisture: 15%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.016 J	0.17	0.0089

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-134

J= Estimated value
 b= See narrative
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry		

Field ID: BR11-1GW03 [10] Batch#: 260999
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-017 Analyzed: 06/30/18
 Moisture: 14%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.084 J	0.20	0.015

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	122	64-134

Field ID: BR11-1GW03 [15] Batch#: 260999
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-018 Analyzed: 06/30/18
 Moisture: 15%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.072 J	0.17	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	116	64-134

Field ID: BR11-1GW03 [20] Batch#: 260999
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-019 Analyzed: 06/30/18
 Moisture: 14%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.042 J	0.16	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	64-134

Field ID: BR11-1GW03 [25] Batch#: 261057
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-020 Analyzed: 07/03/18
 Moisture: 11%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.014 J	0.17	0.0090

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-134

J= Estimated value
 b= See narrative
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry		

Field ID:	BR11-1GW03 [30]	Batch#:	261057
Type:	SAMPLE	Sampled:	06/26/18
Lab ID:	301076-021	Analyzed:	07/03/18
Moisture:	17%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.012 J	0.19	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-134

Field ID:	BR11-1GW03 [35]	Batch#:	260993
Type:	SAMPLE	Sampled:	06/26/18
Lab ID:	301076-022	Analyzed:	06/29/18
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.15	0.0078

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

Field ID:	DUP06262018-01	Batch#:	260993
Type:	SAMPLE	Sampled:	06/26/18
Lab ID:	301076-023	Analyzed:	06/29/18
Moisture:	13%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.016 J	0.17	0.0088

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-134

Type:	BLANK	Batch#:	260993
Lab ID:	QC937854	Analyzed:	06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.049 J	0.20	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	64-134

J= Estimated value
 b= See narrative
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC937851	Batch#:	260993
Matrix:	Soil	Analyzed:	06/29/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.134	113	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC938008	Batch#:	260999
Matrix:	Soil	Analyzed:	06/29/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.106	111	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	64-134

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	261057
Units:	mg/Kg	Analyzed:	07/02/18
Diln Fac:	1.000		

Type: BS Lab ID: QC938112

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.050	105	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

Type: BSD Lab ID: QC938113

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.078	108	80-120	3	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	64-134

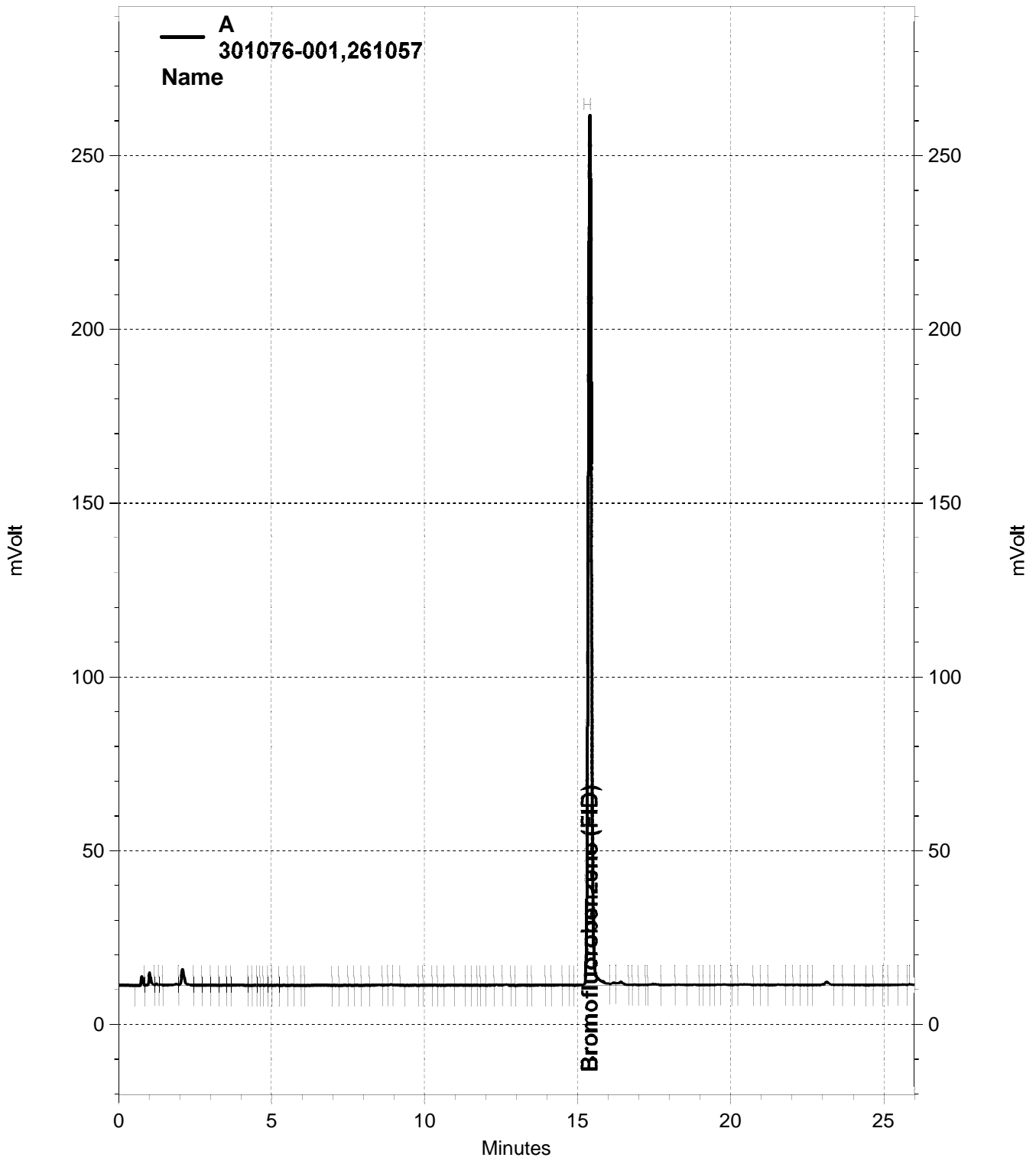
RPD= Relative Percent Difference

Batch QC Report

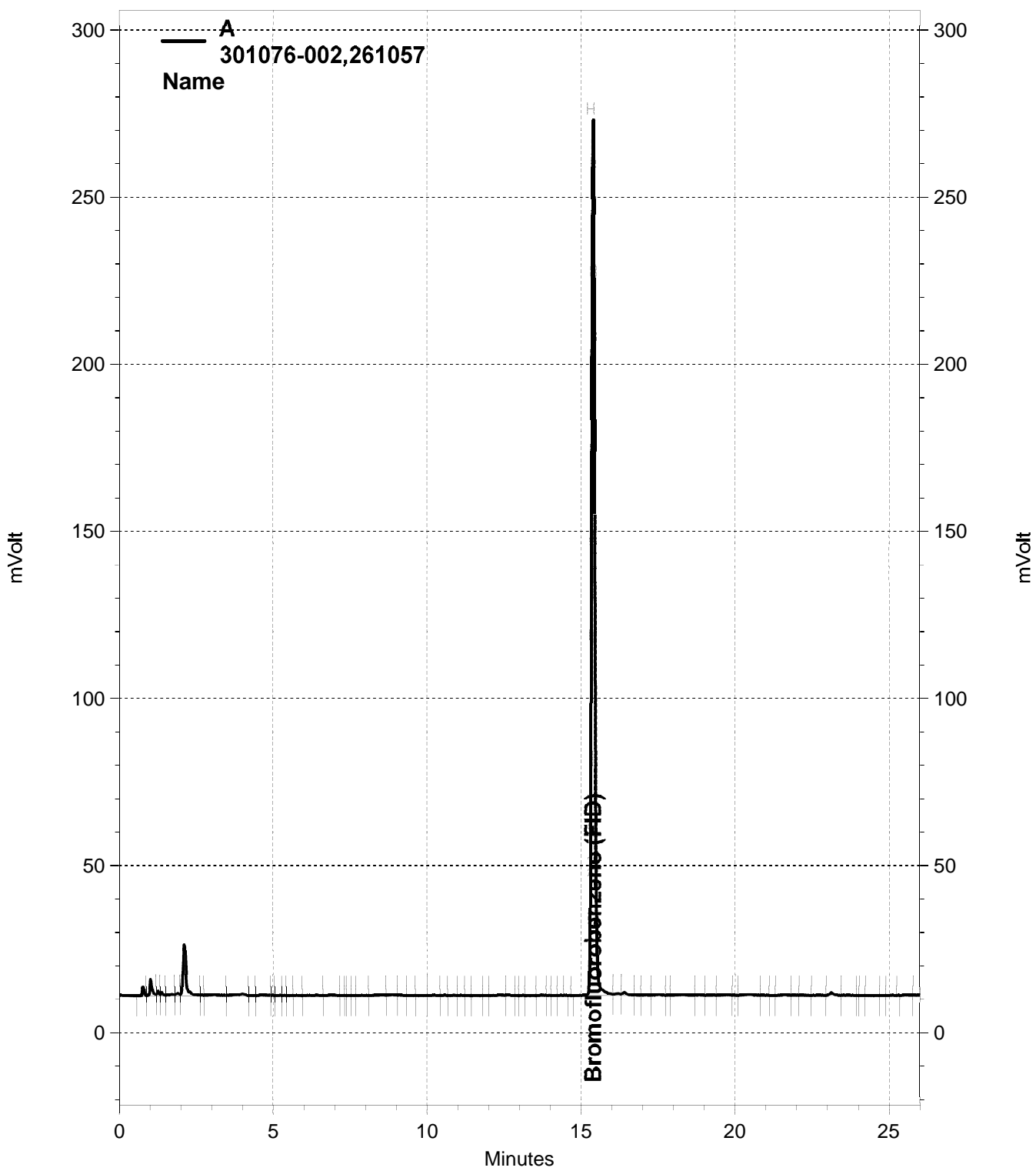
Gasoline by GC/FID (5035 Prep)			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC938249	Batch#:	261094
Matrix:	Soil	Analyzed:	07/03/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.139	114	80-120

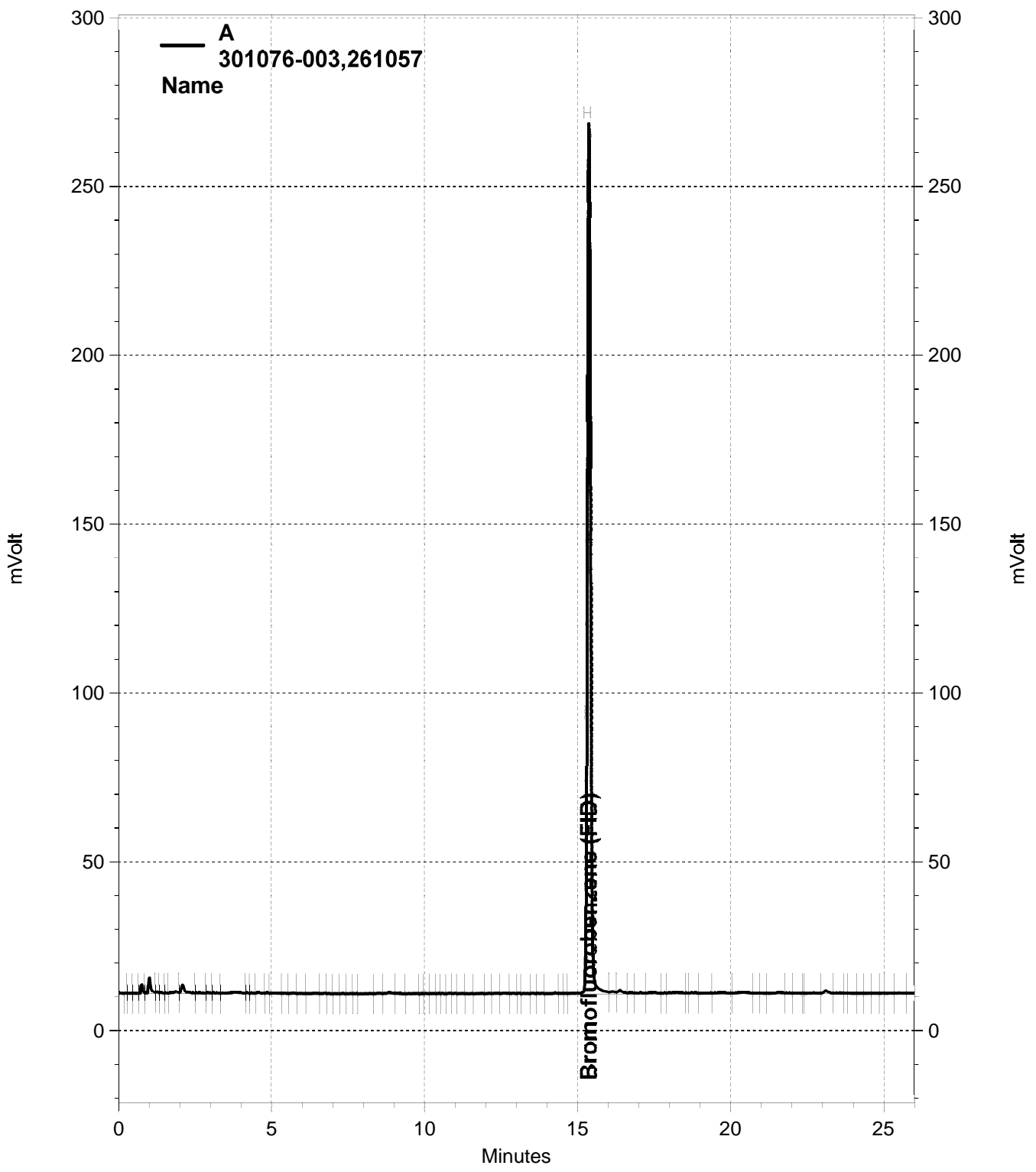
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134



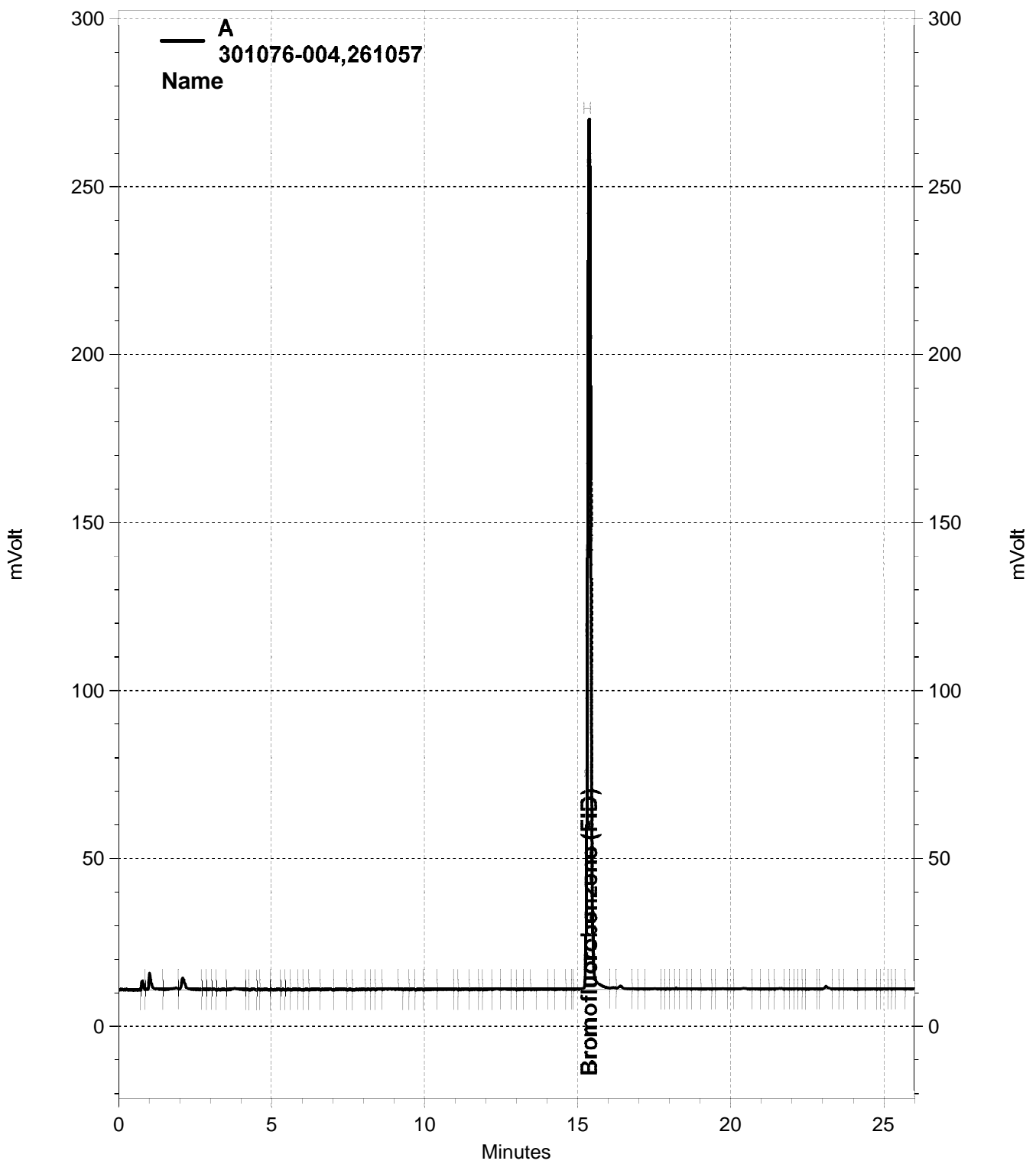
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-006, A



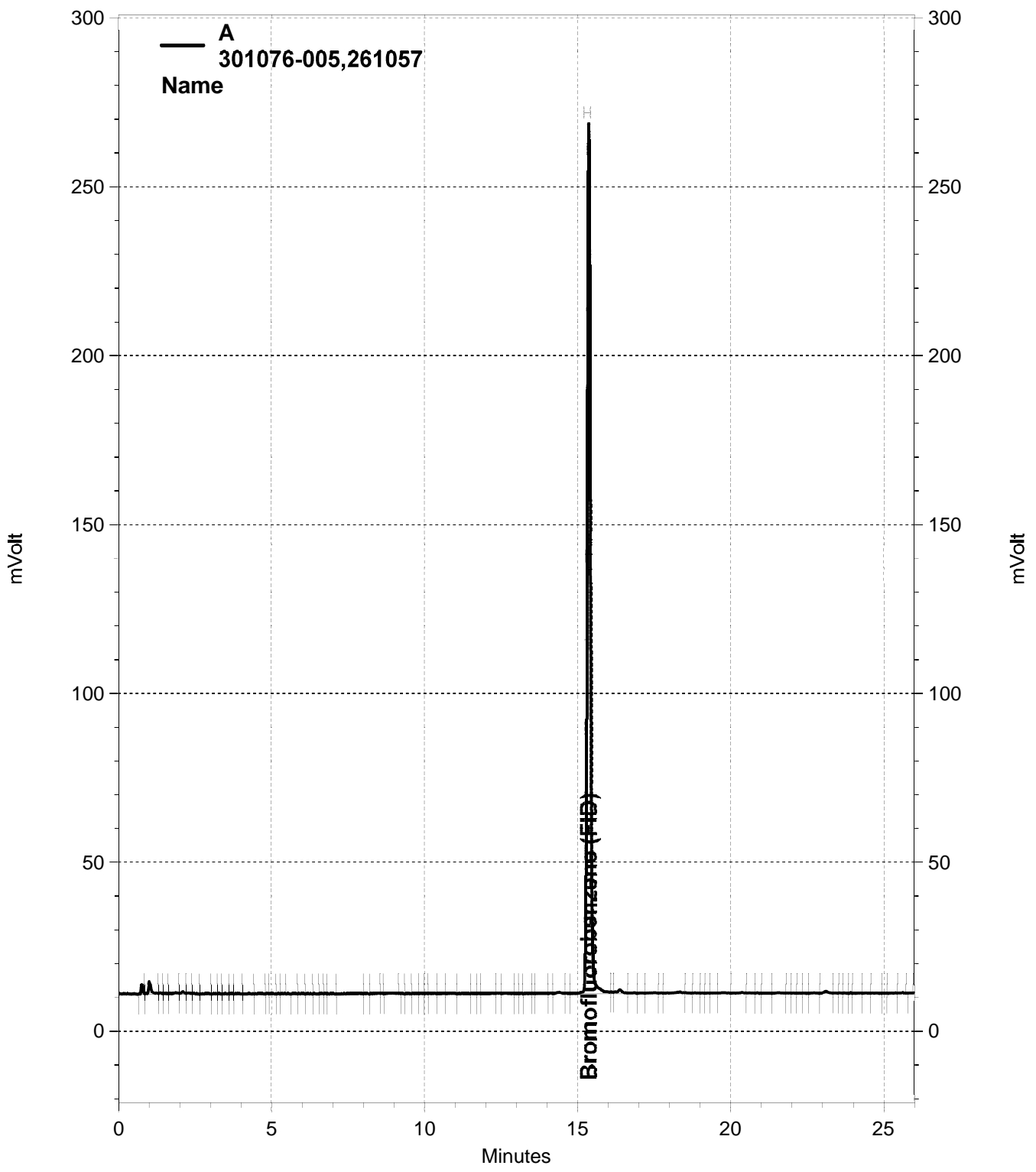
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-007, A



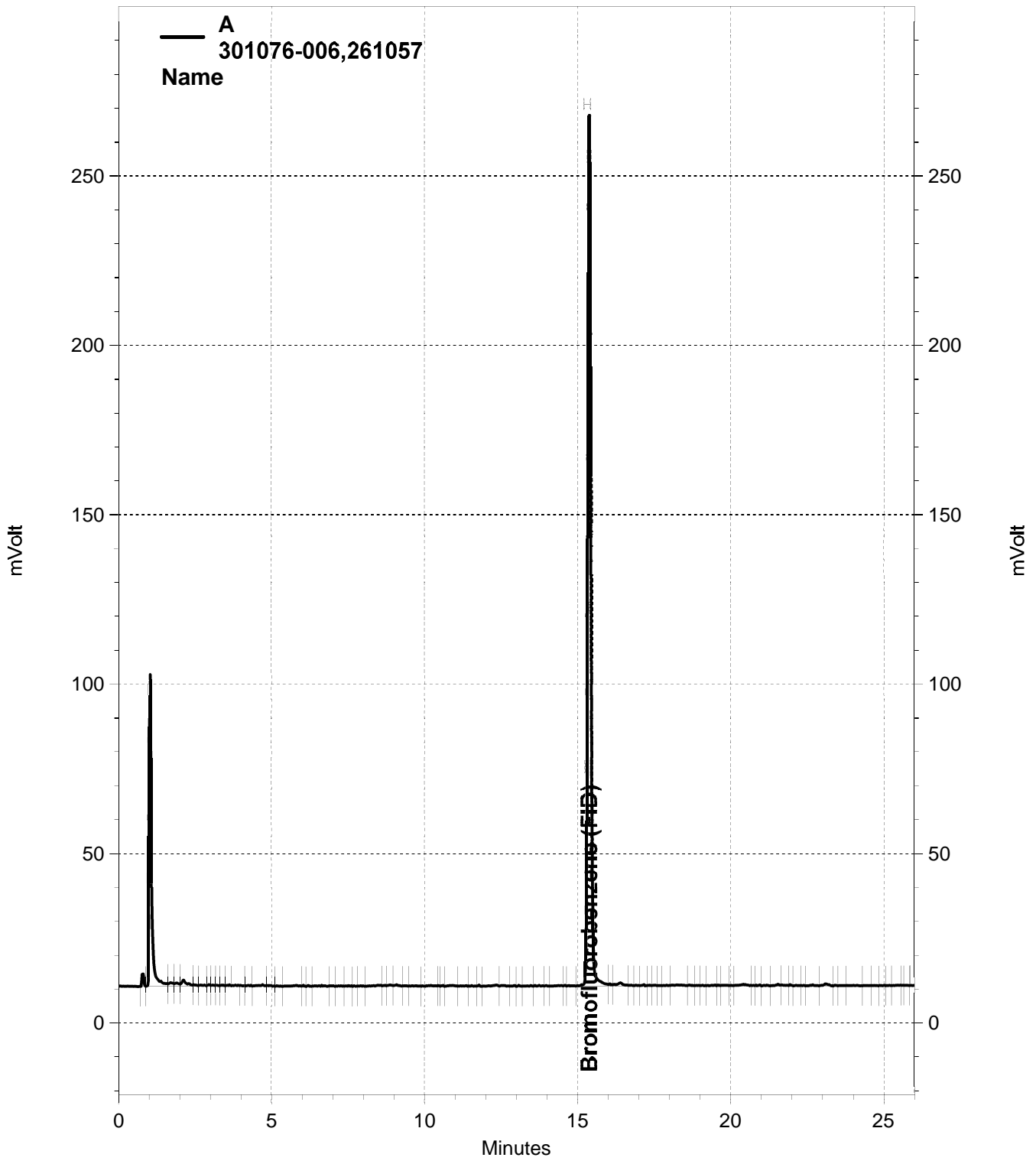
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-008, A



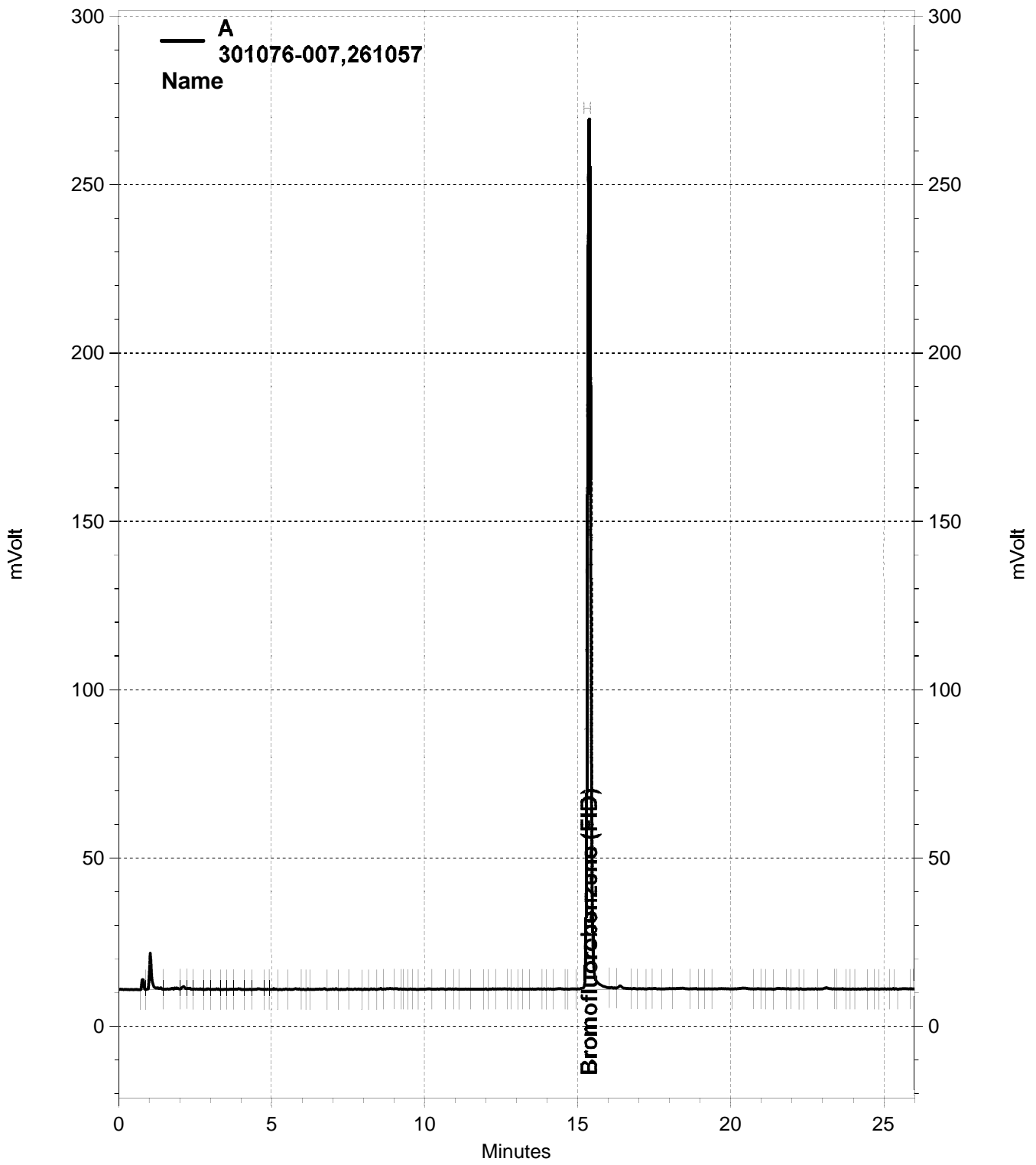
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-009, A



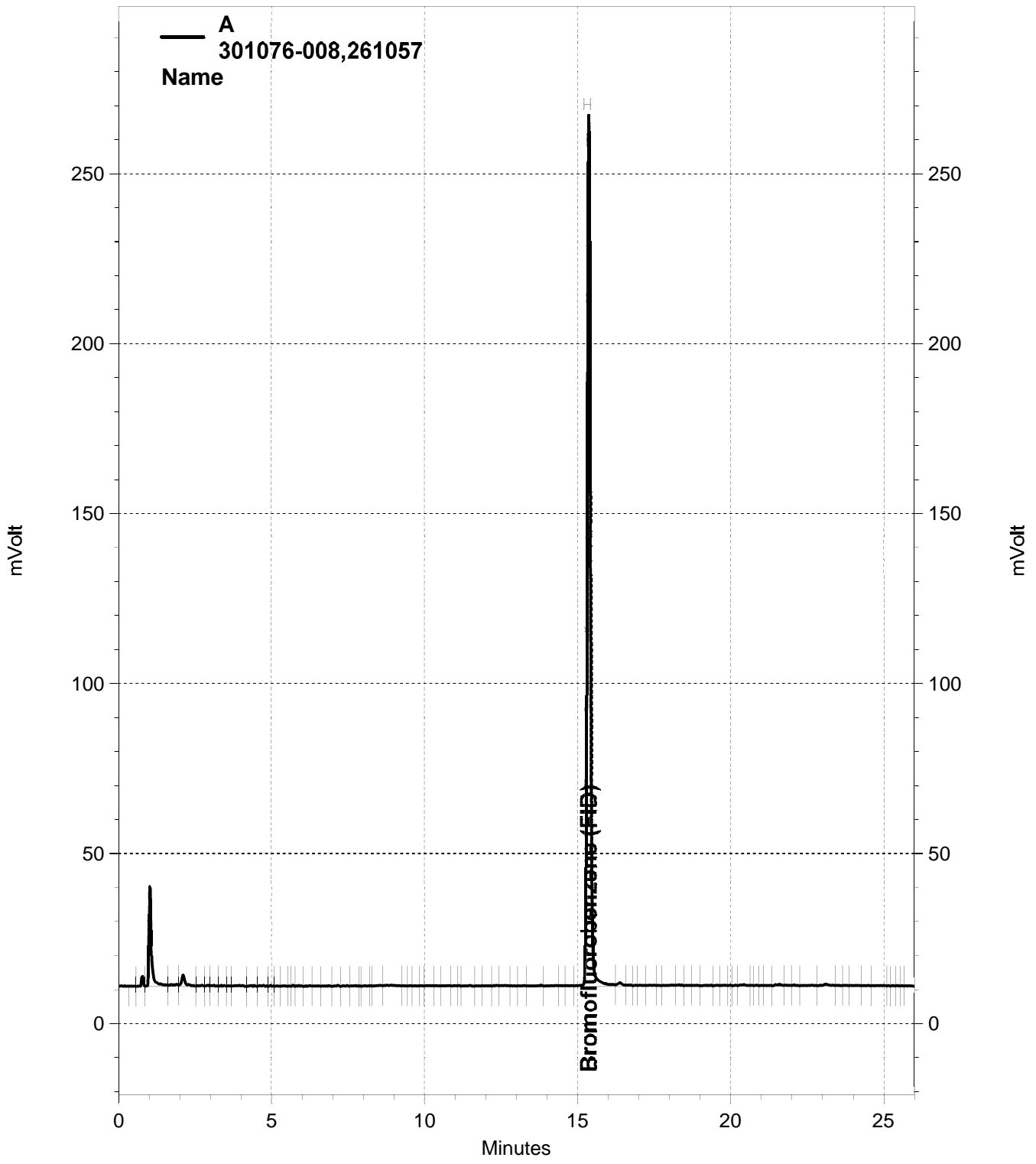
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-010, A



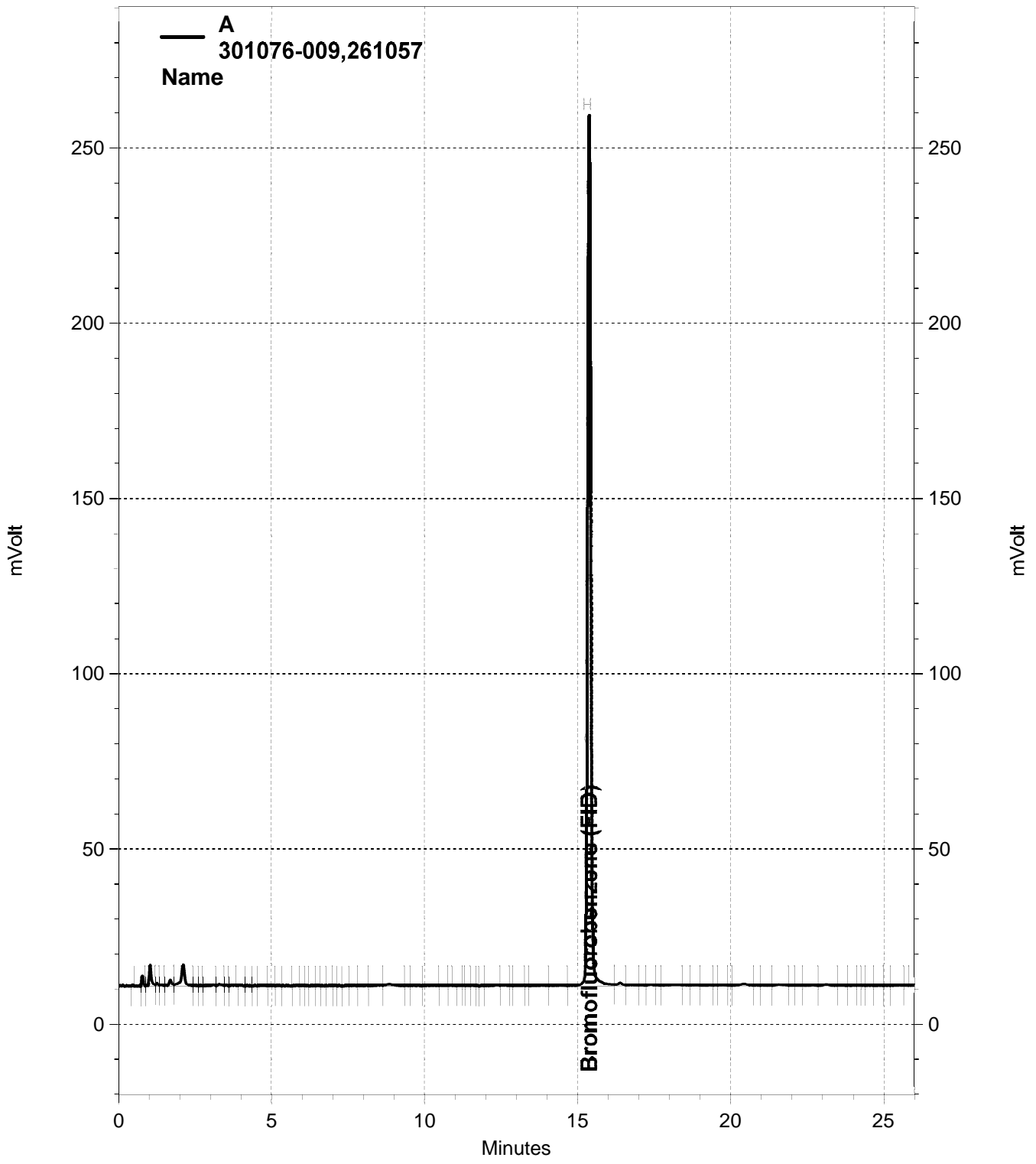
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-011, A



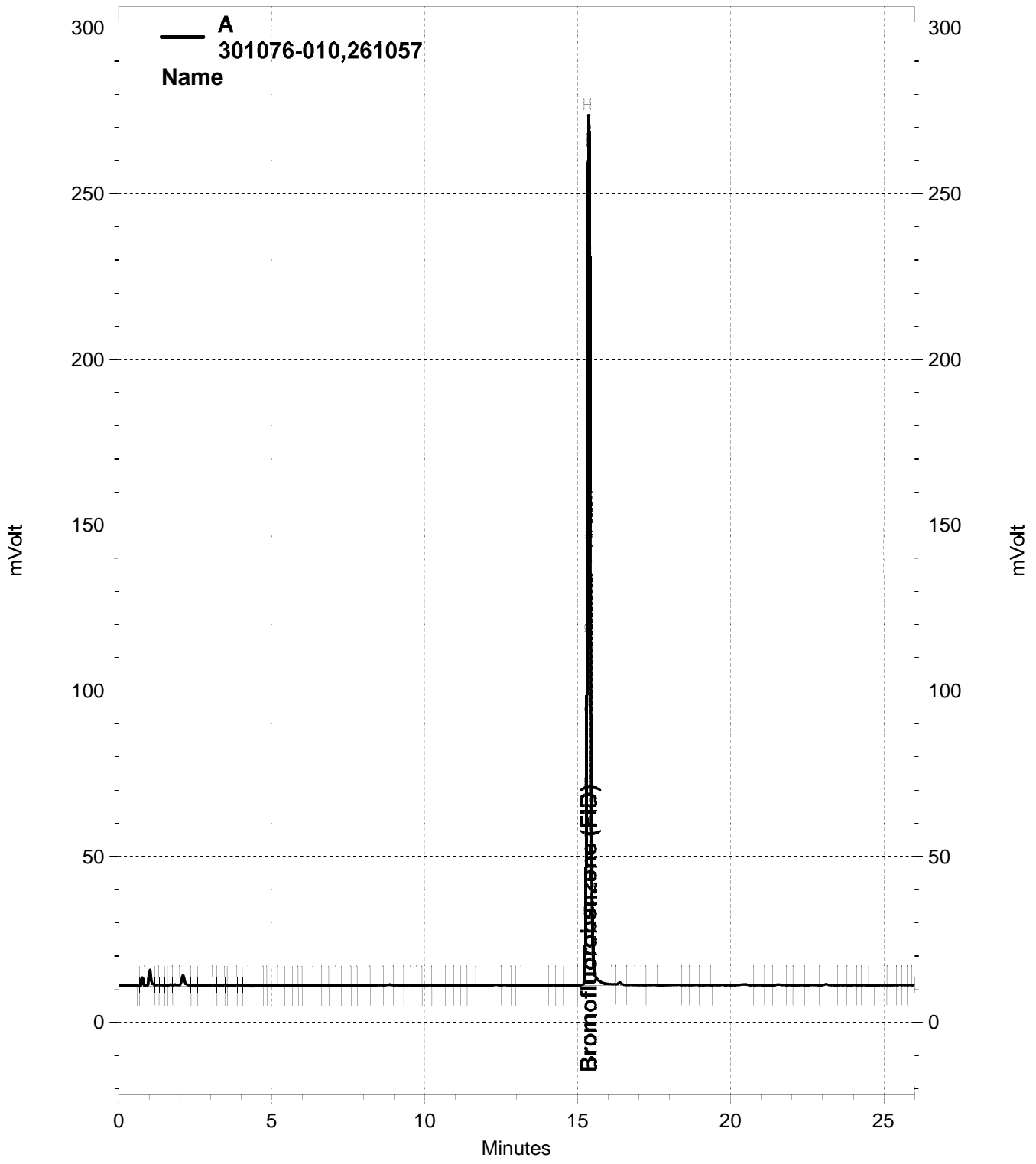
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-012, A



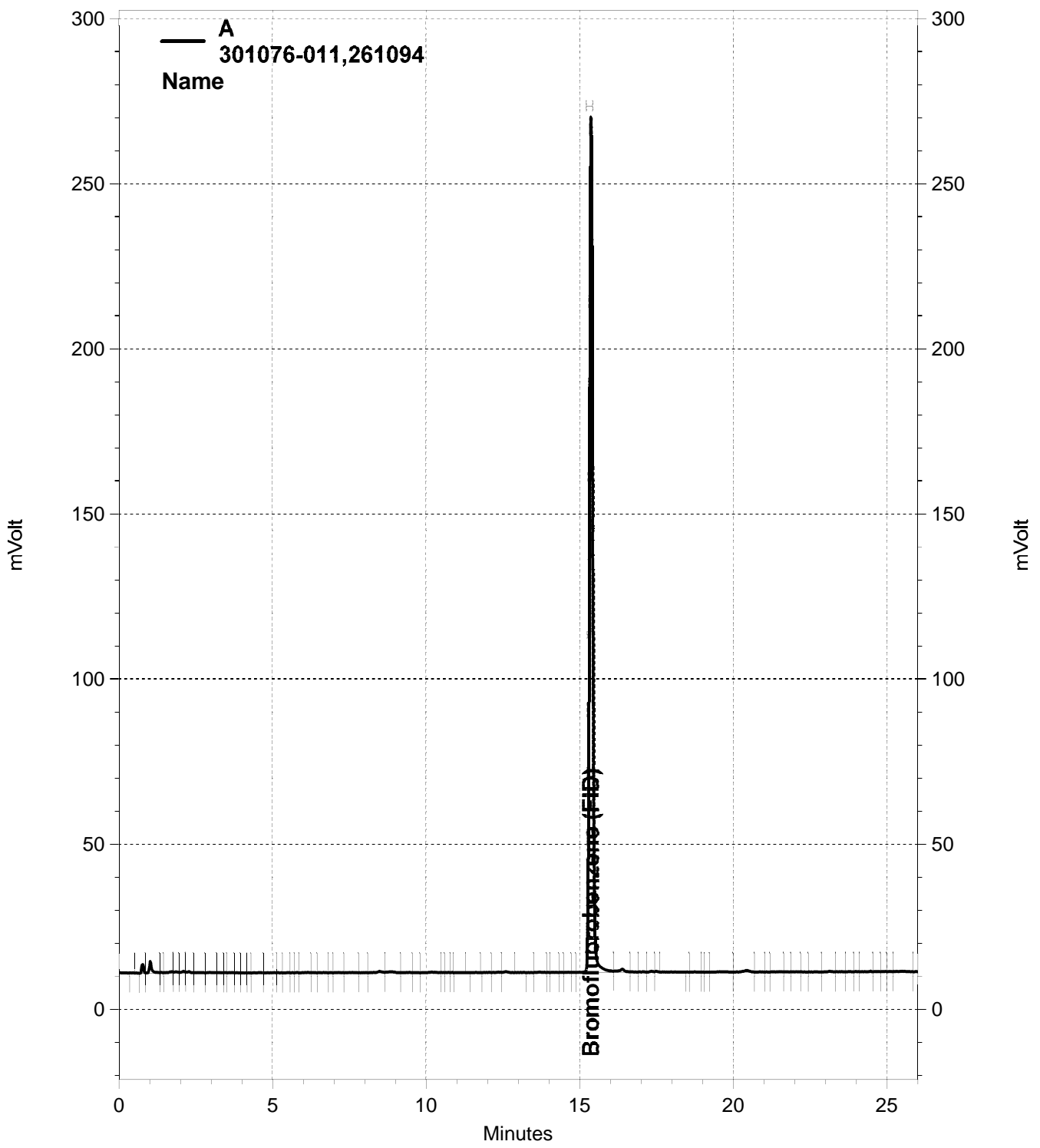
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-013, A



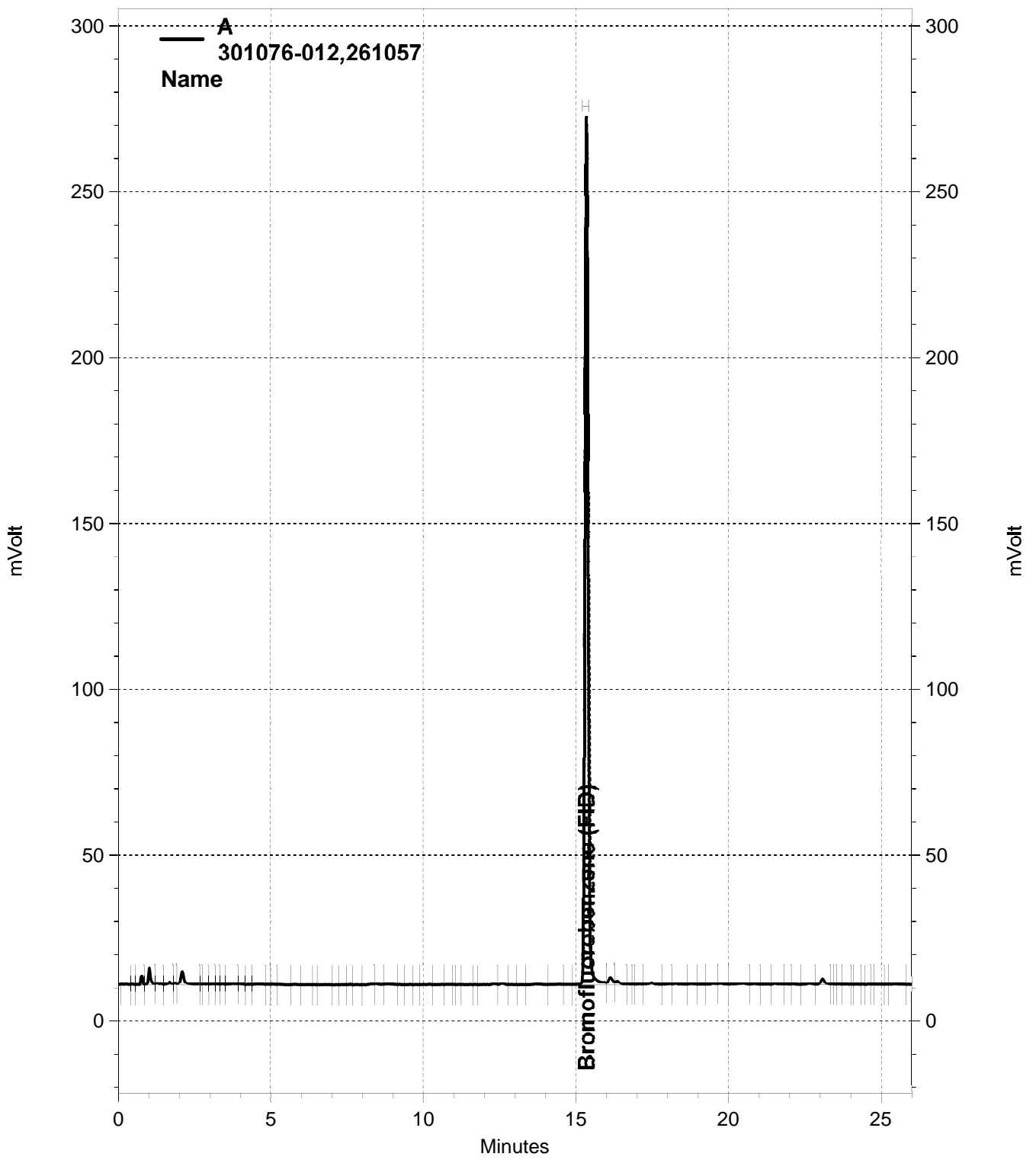
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-014, A



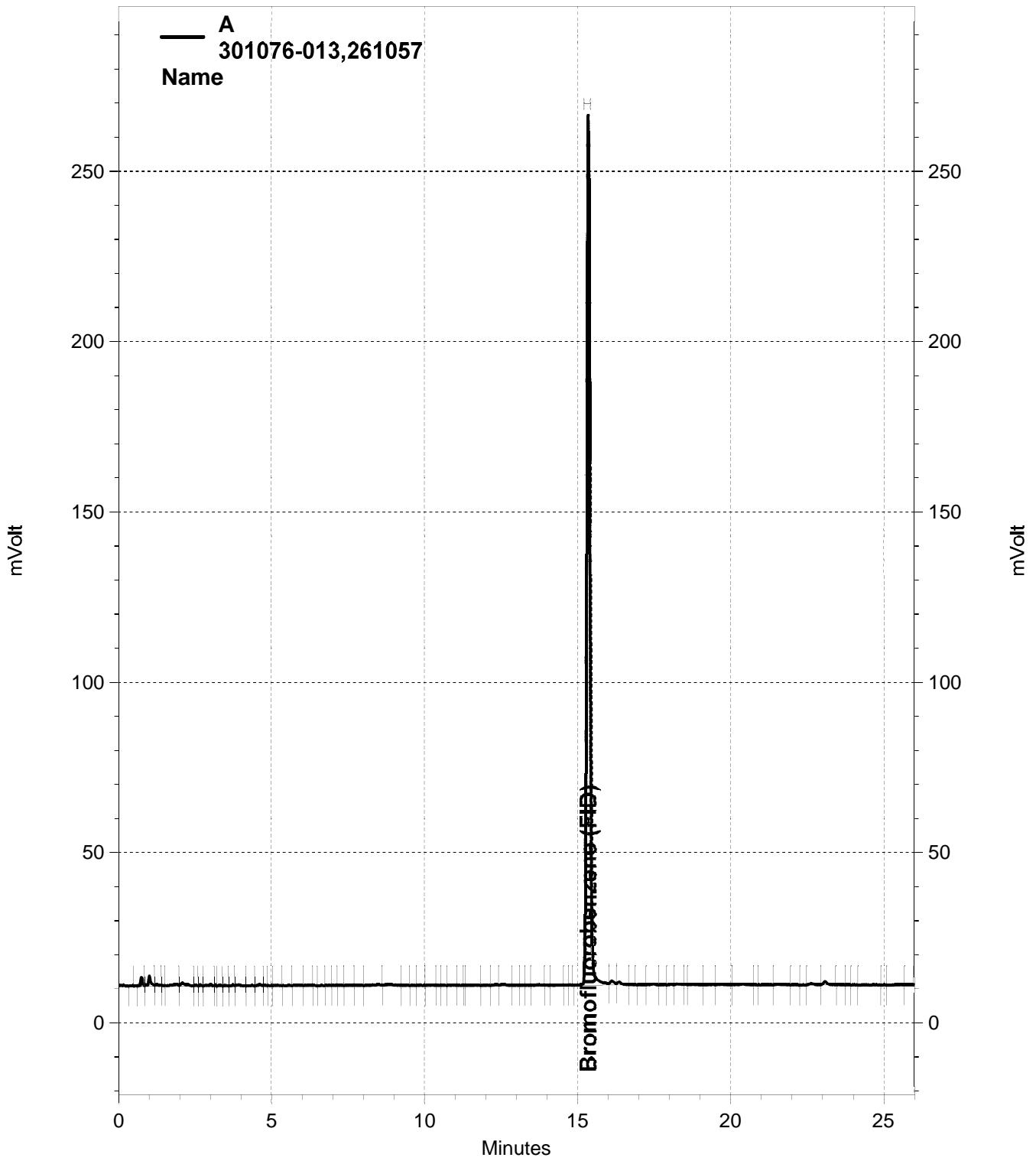
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-015, A



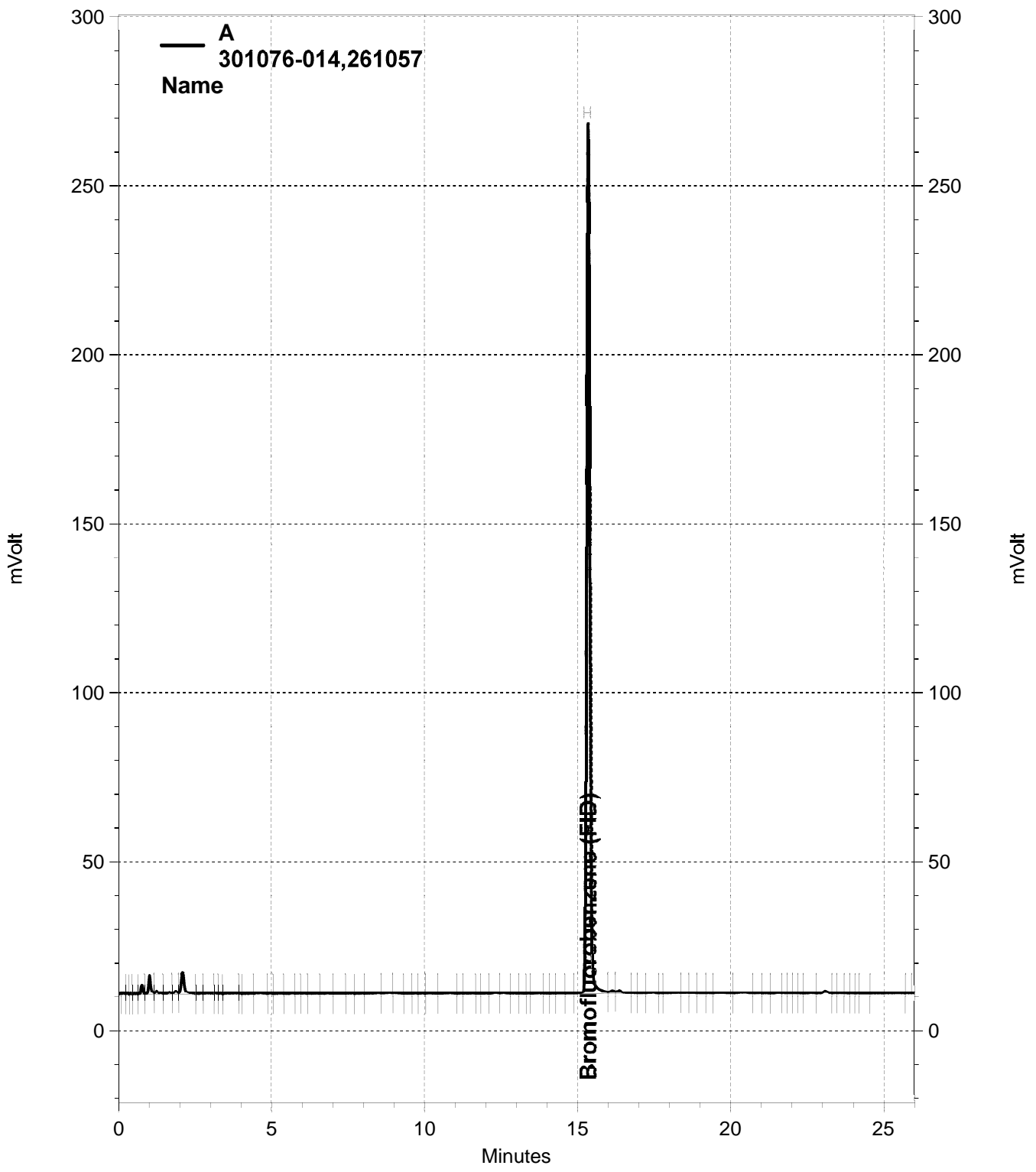
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\184-036, A



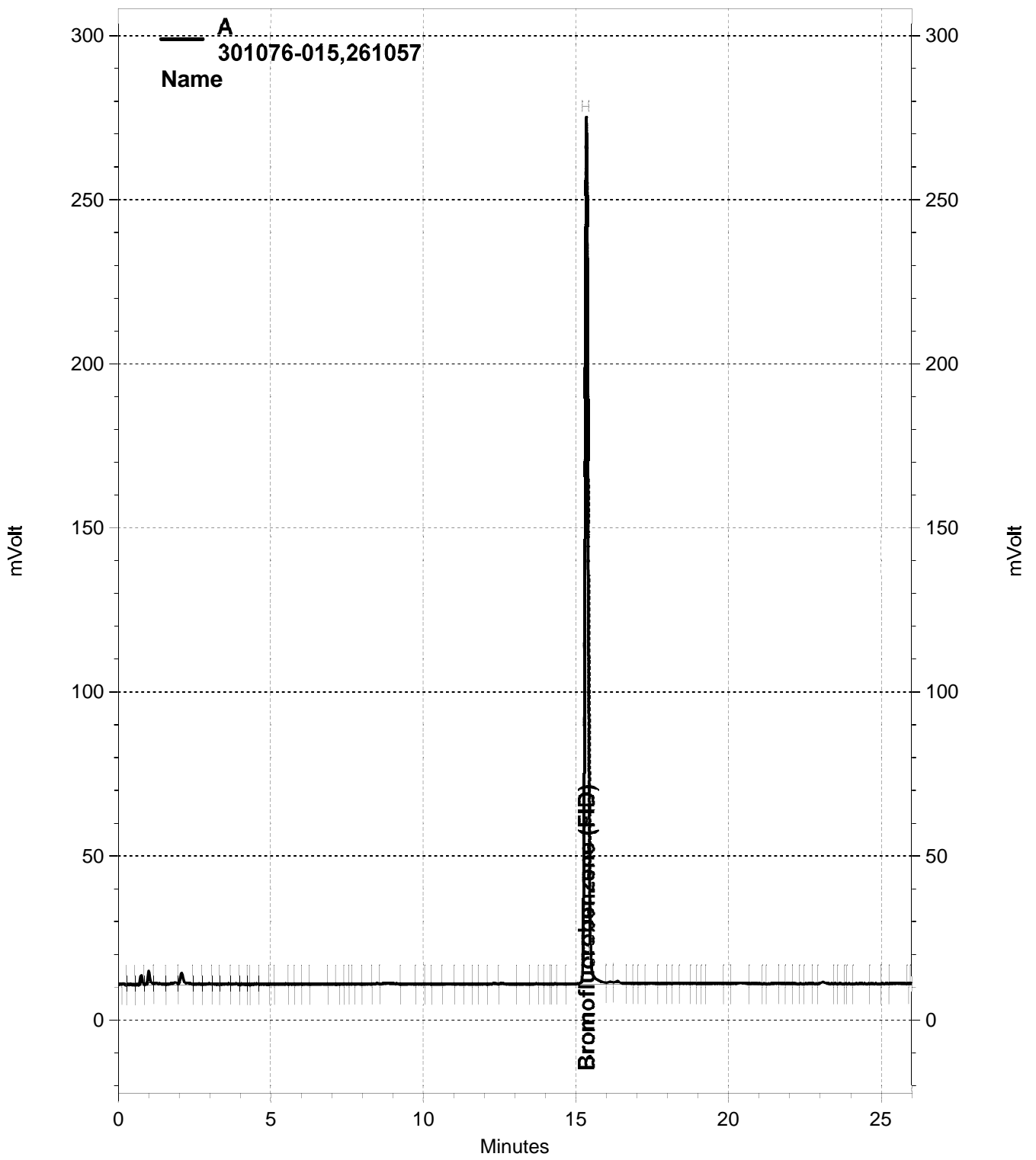
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-019, A



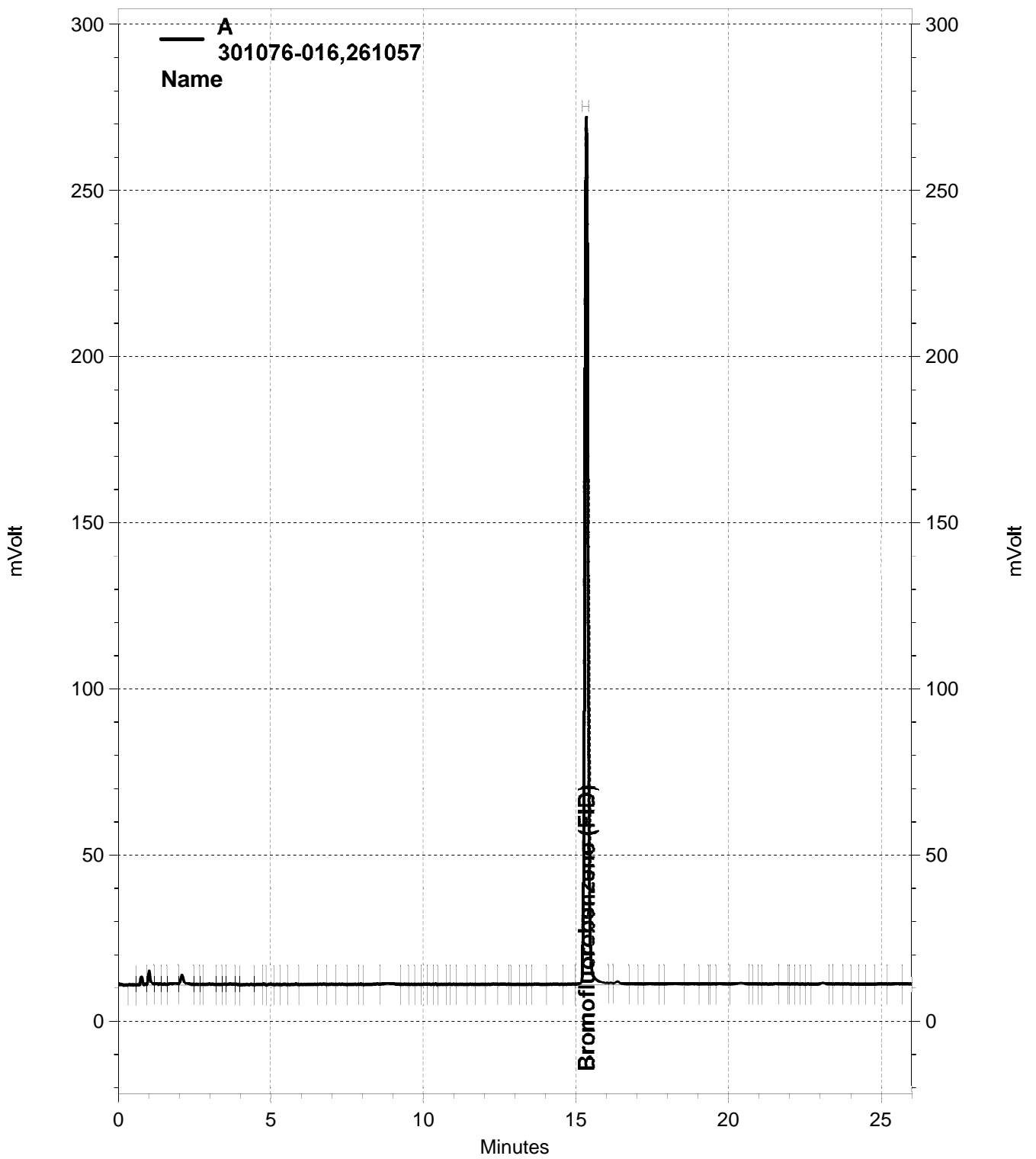
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-020, A



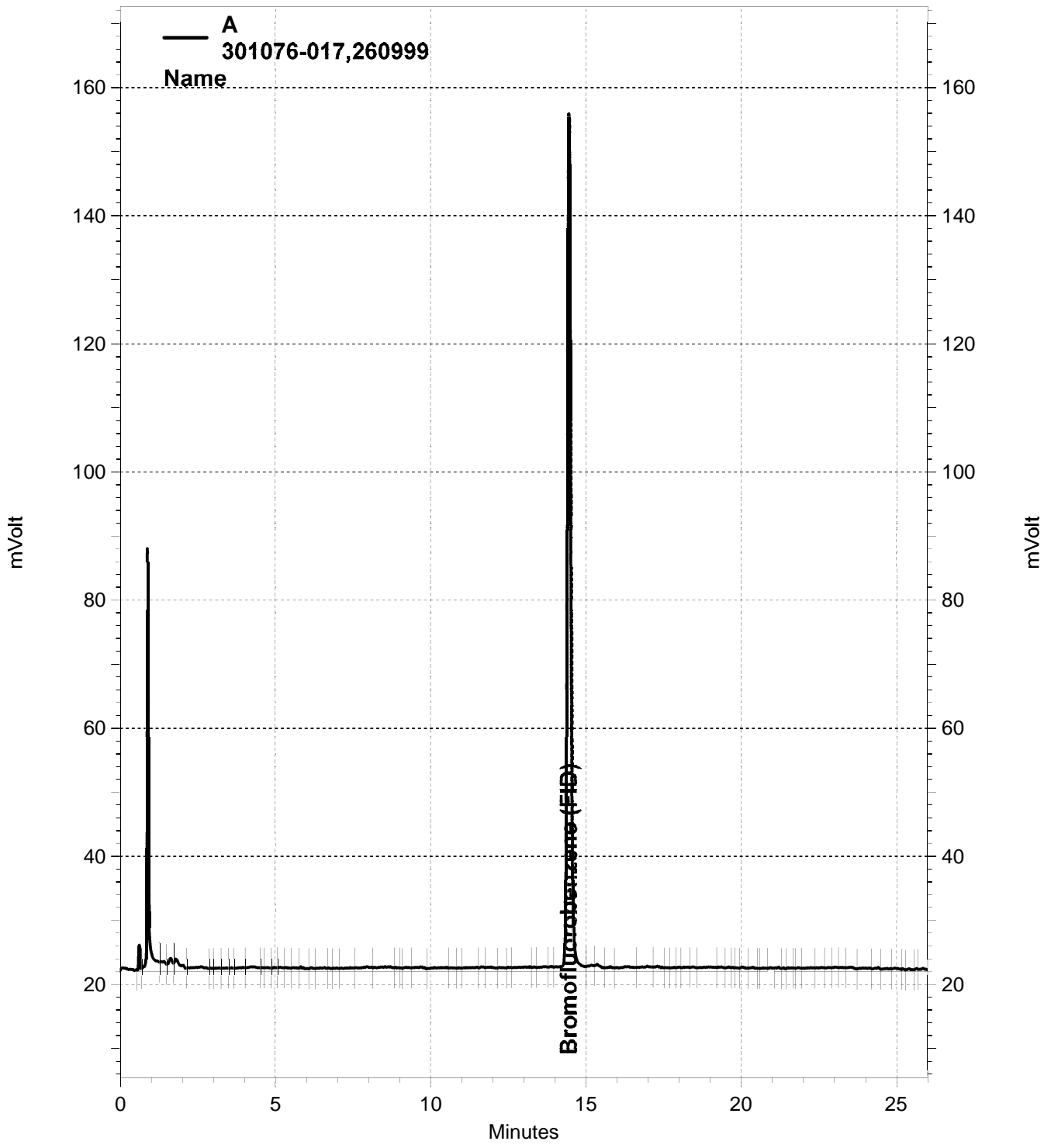
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-021, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-022, A

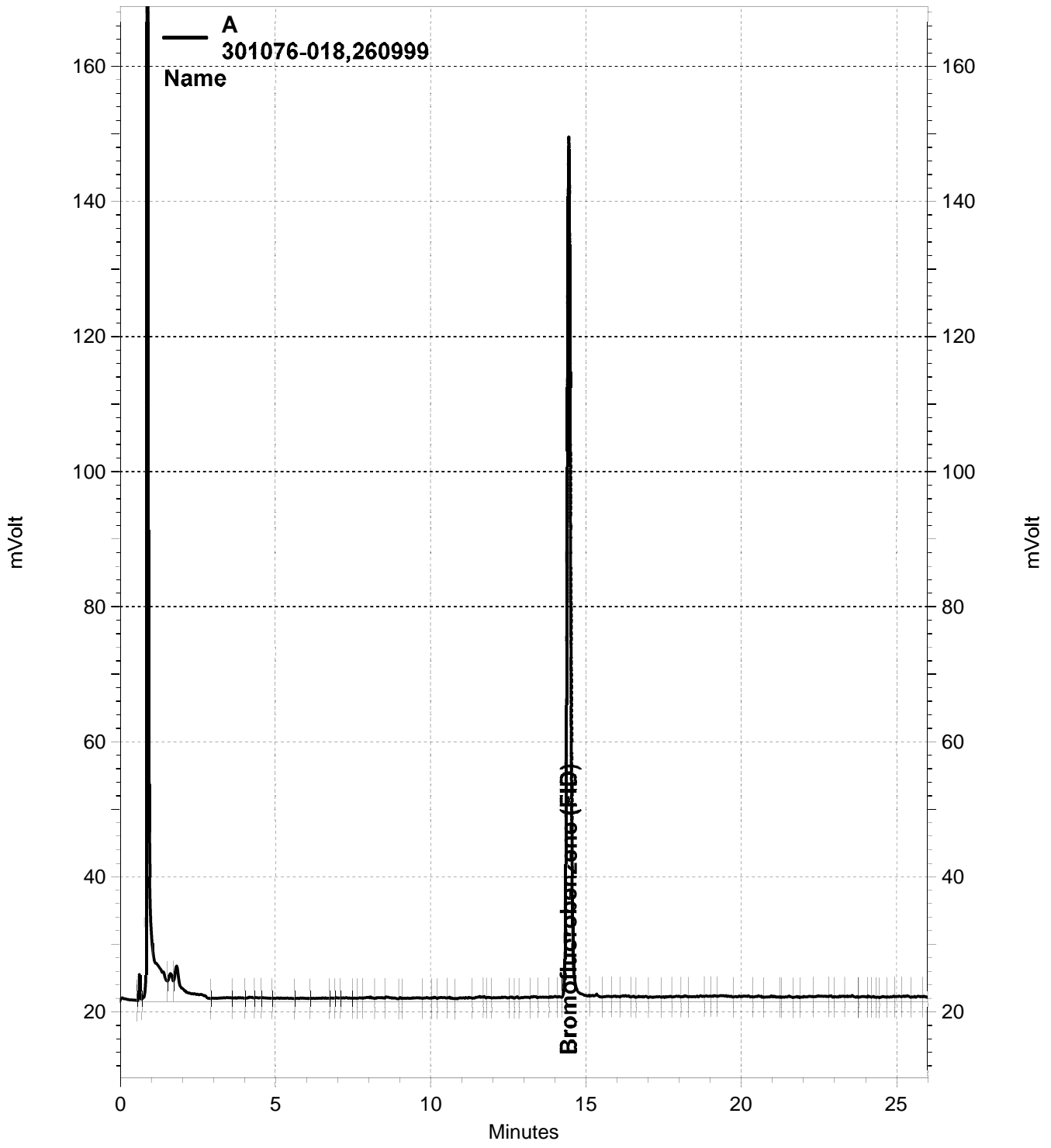


— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-023, A

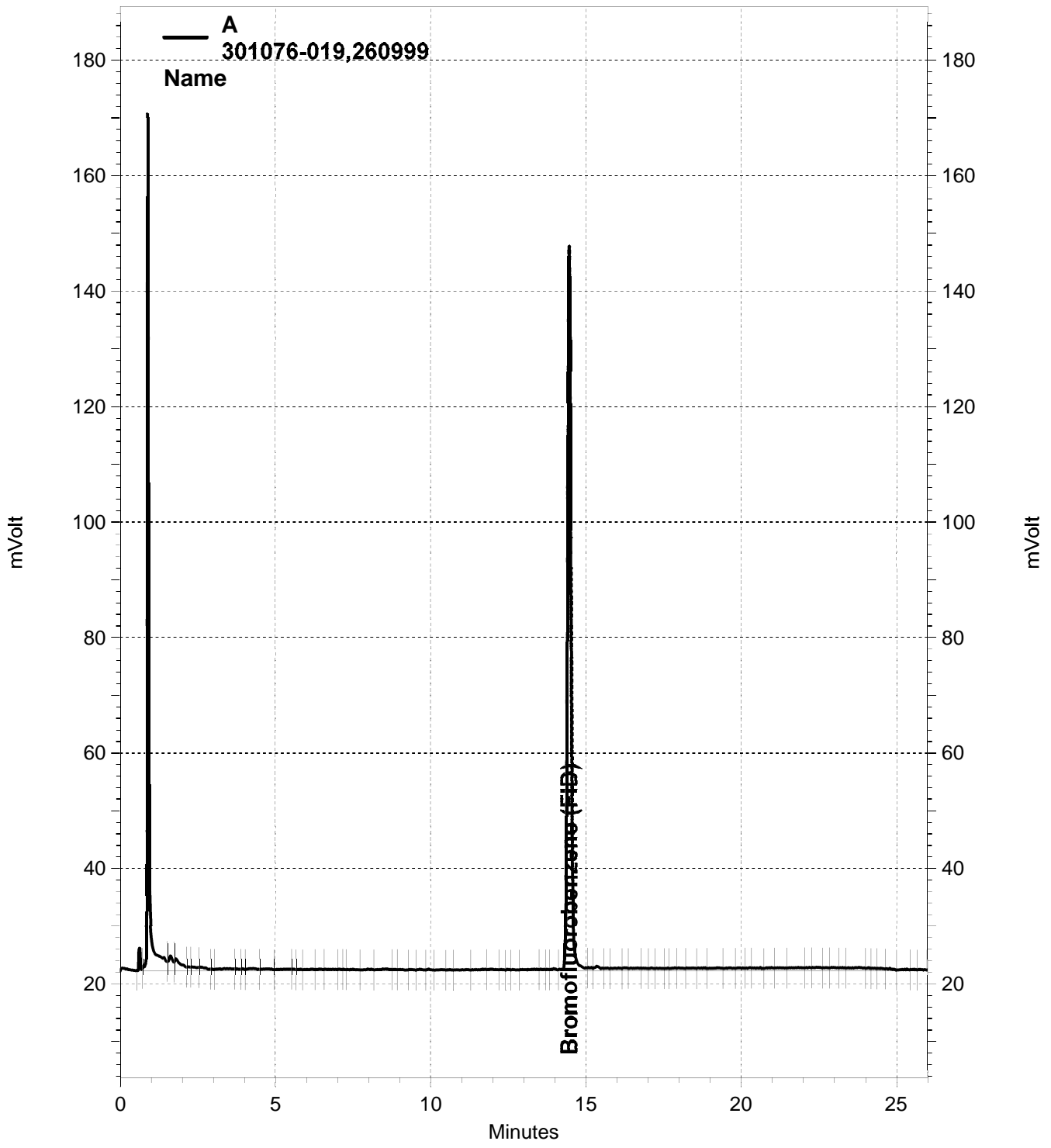


— A
301076-017,260999
Name

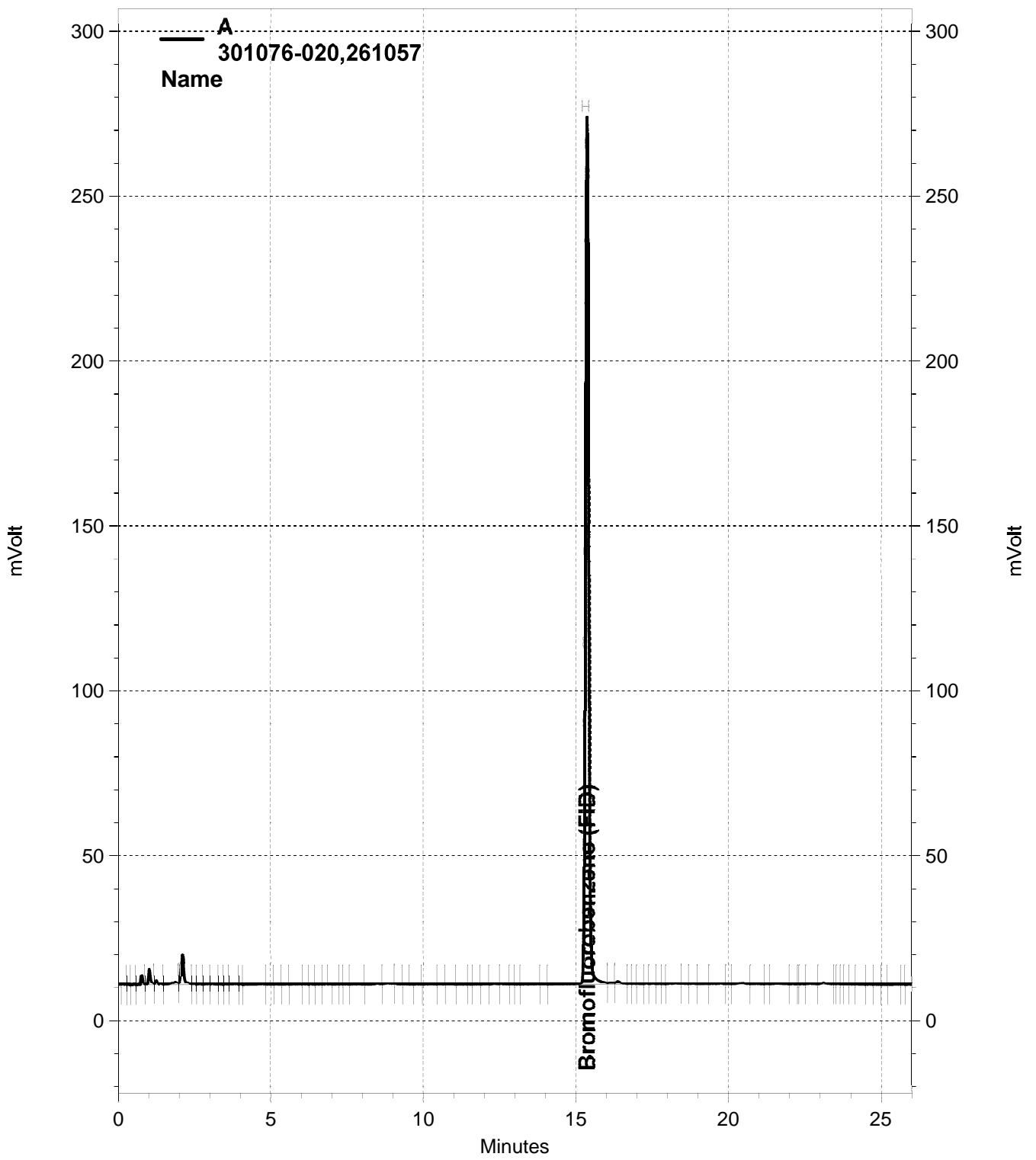
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\180-030, A



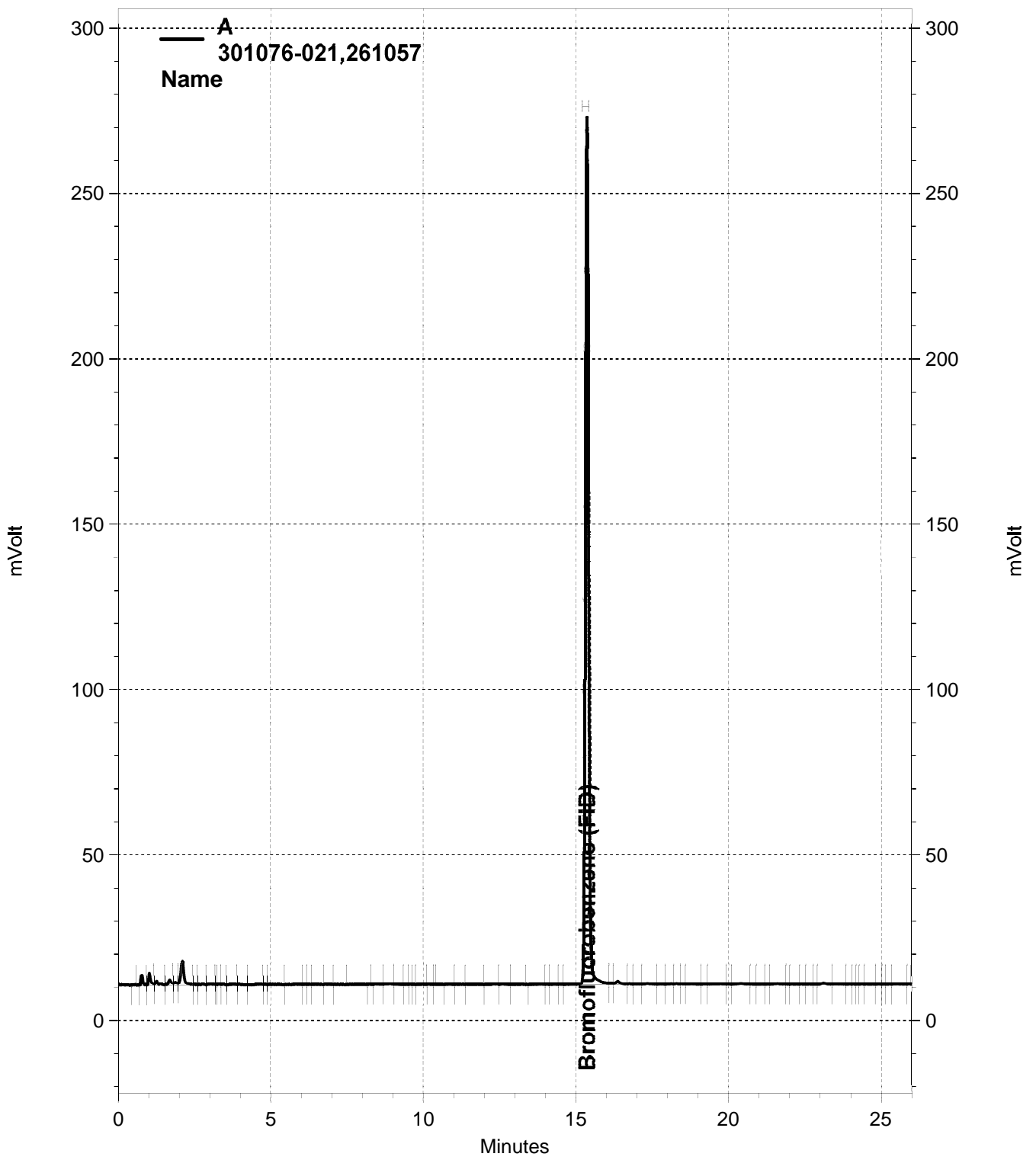
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\180-031, A



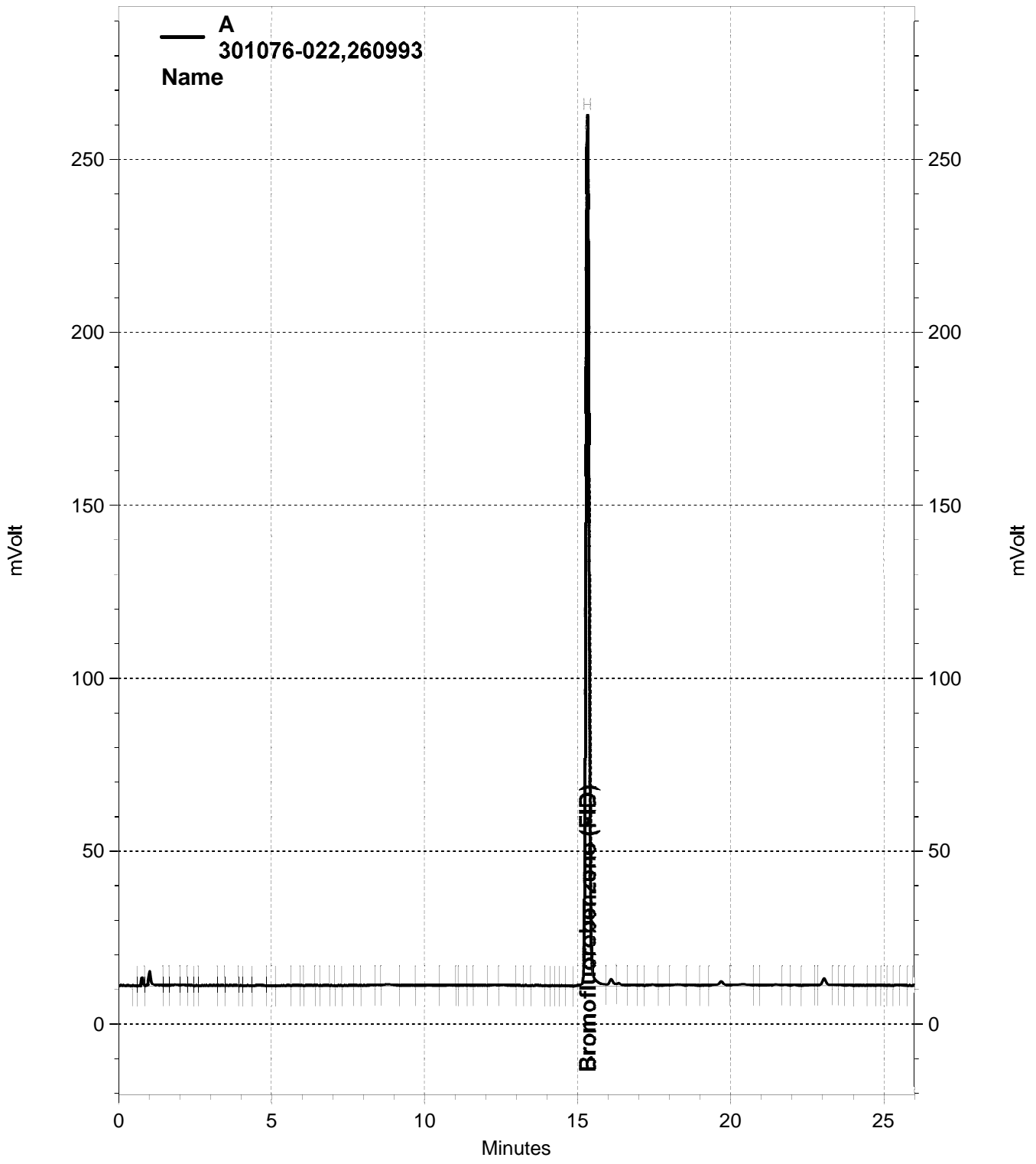
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\180-032, A



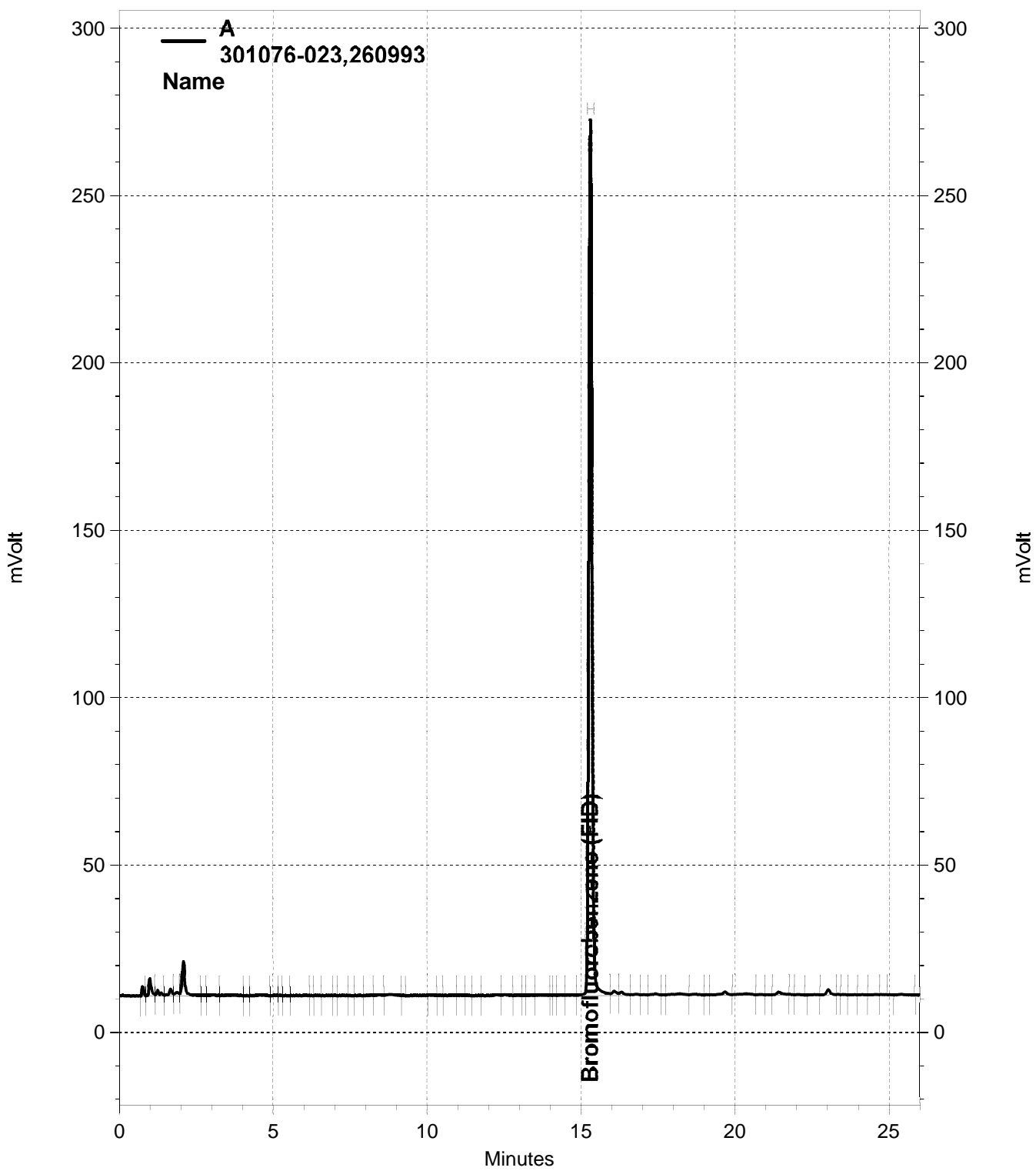
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-024, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-025, A

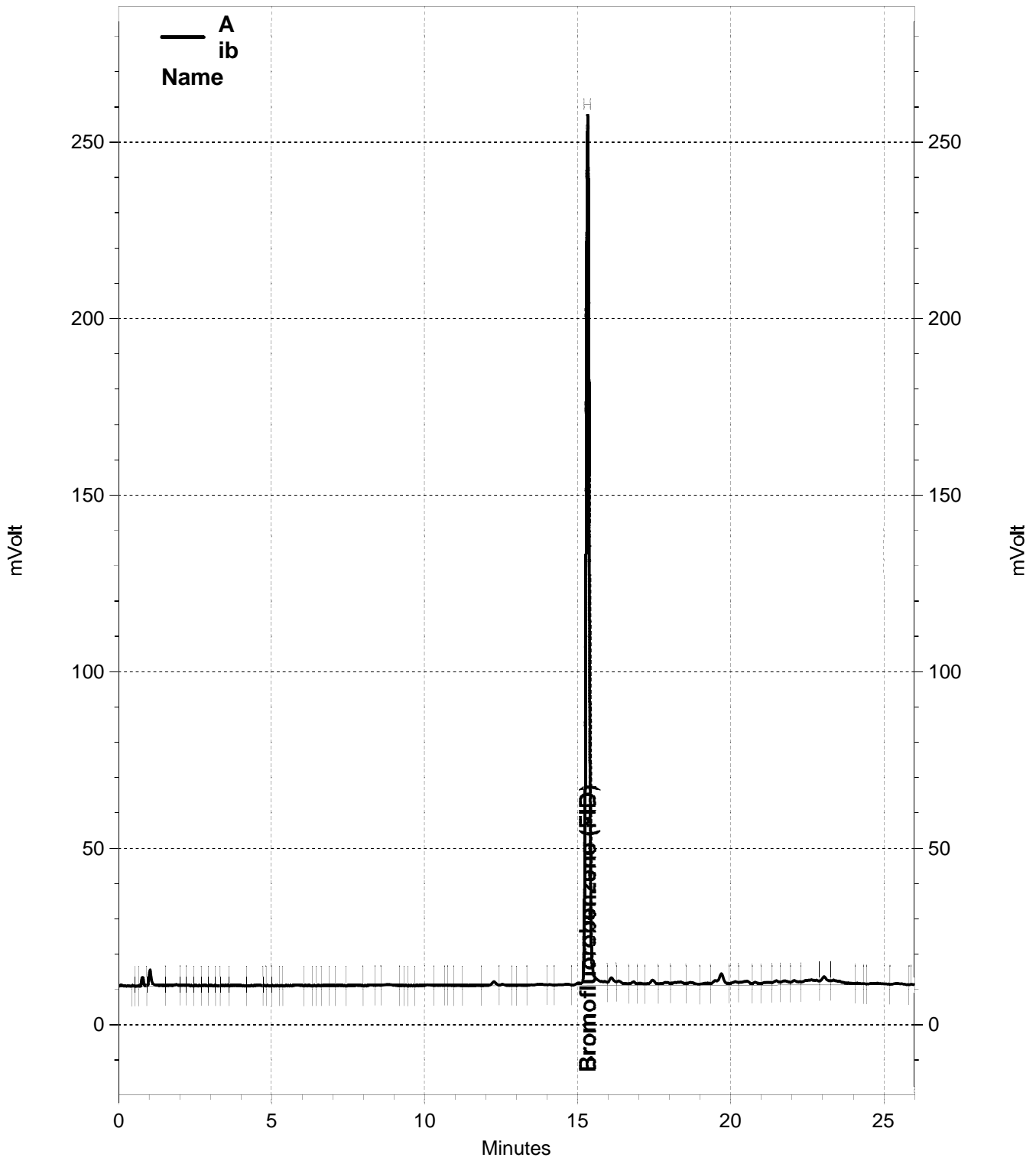


— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-019, A

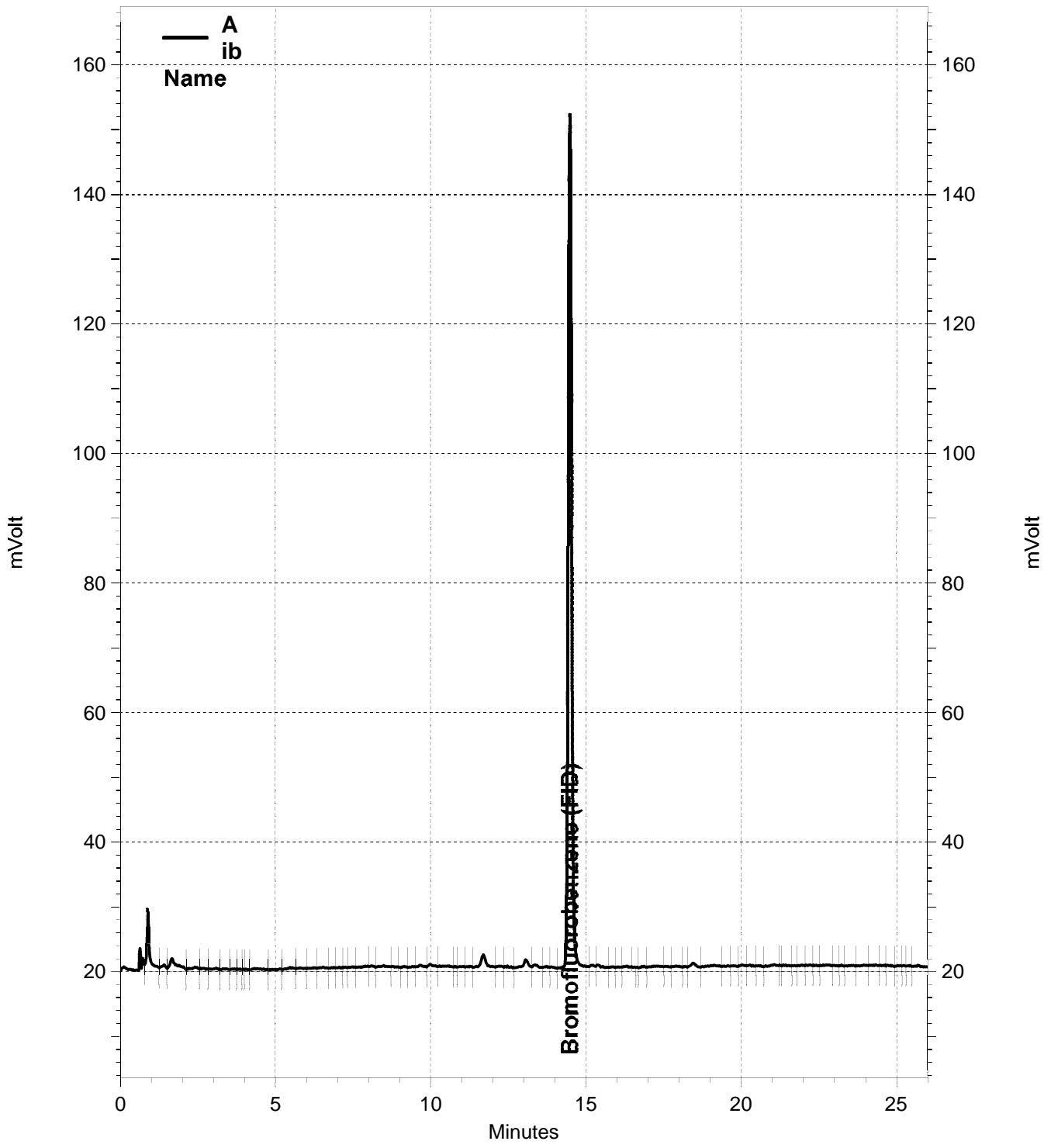


A
301076-023,260993
Name

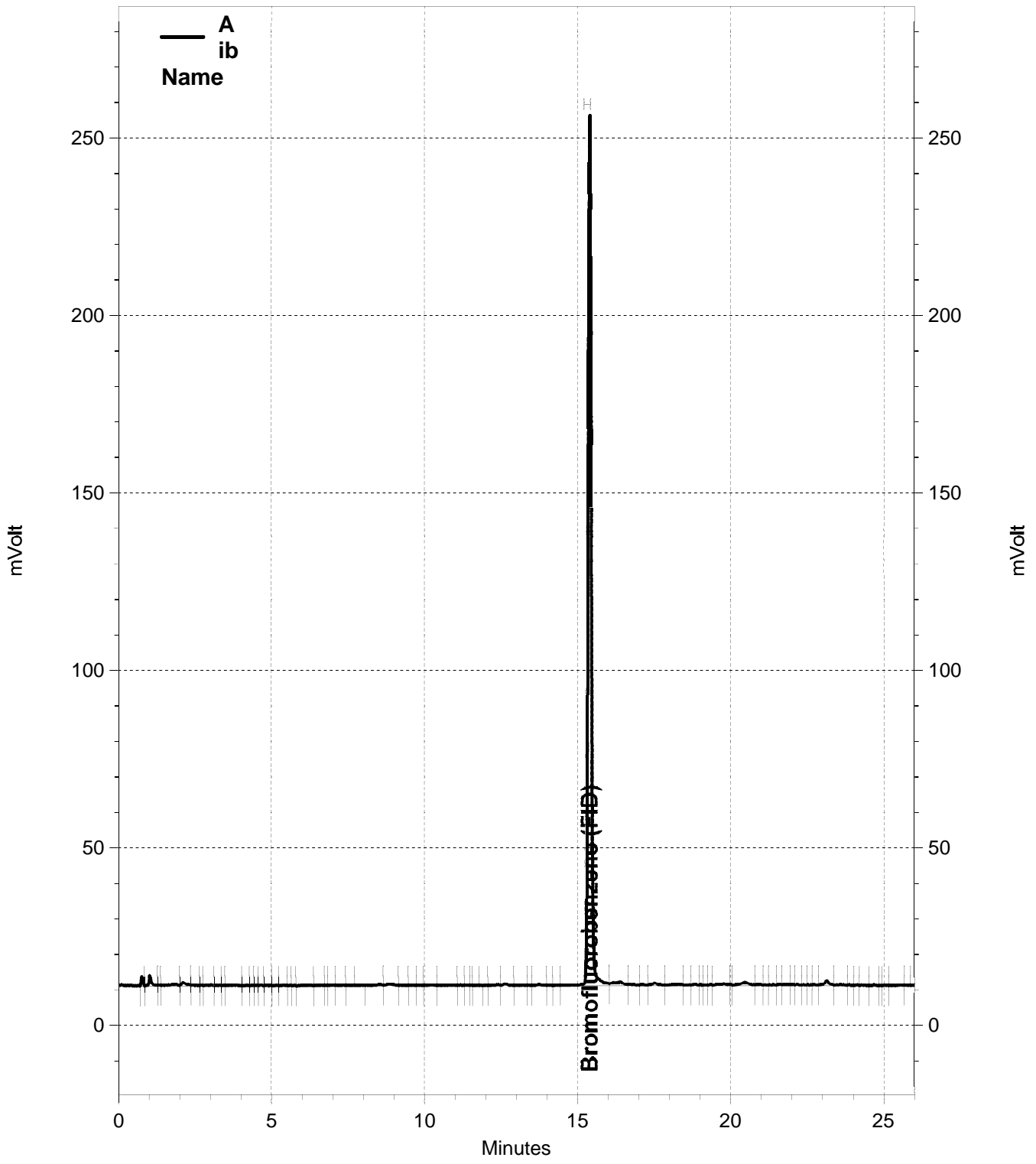
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-020, A



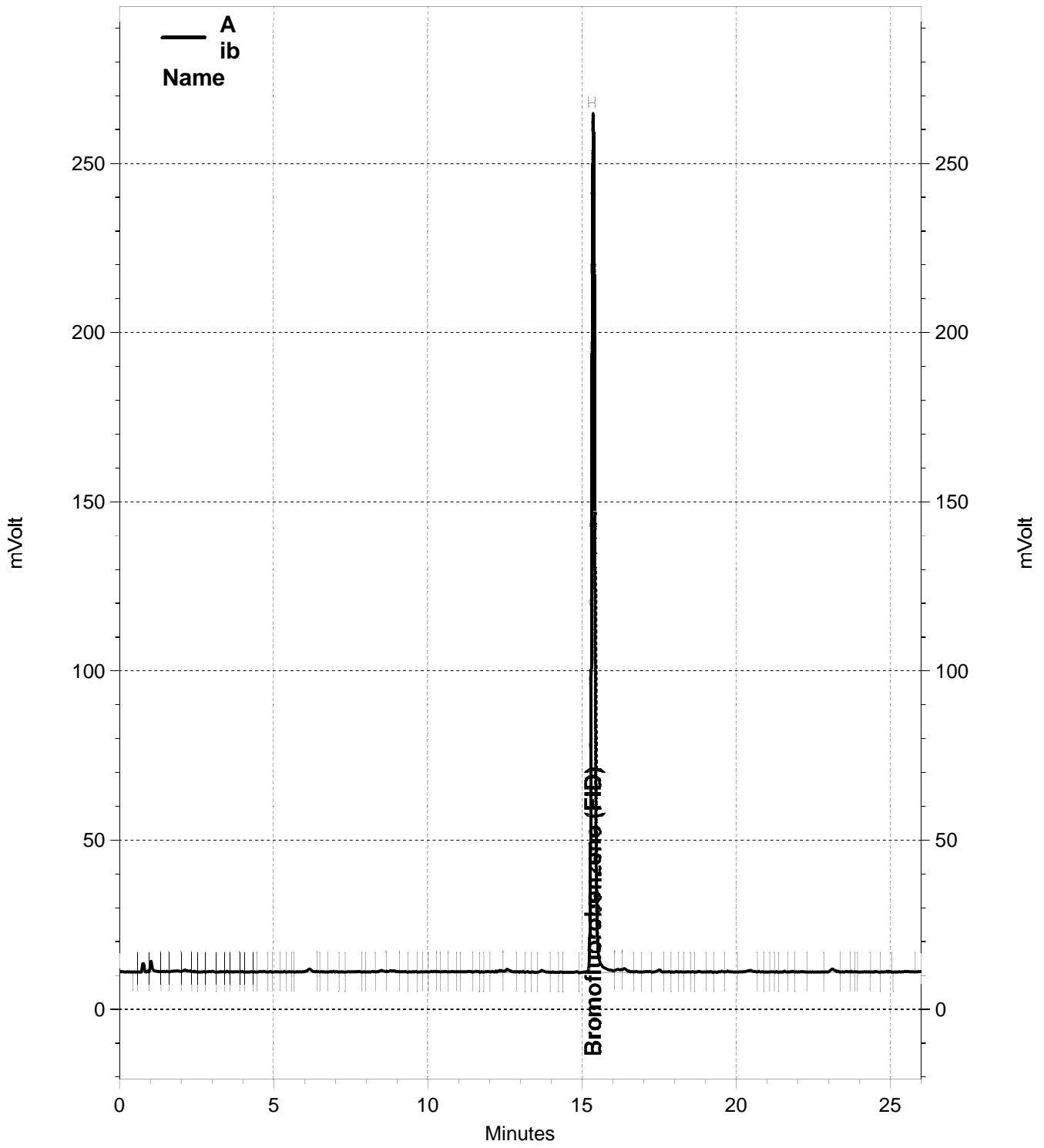
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-008, A



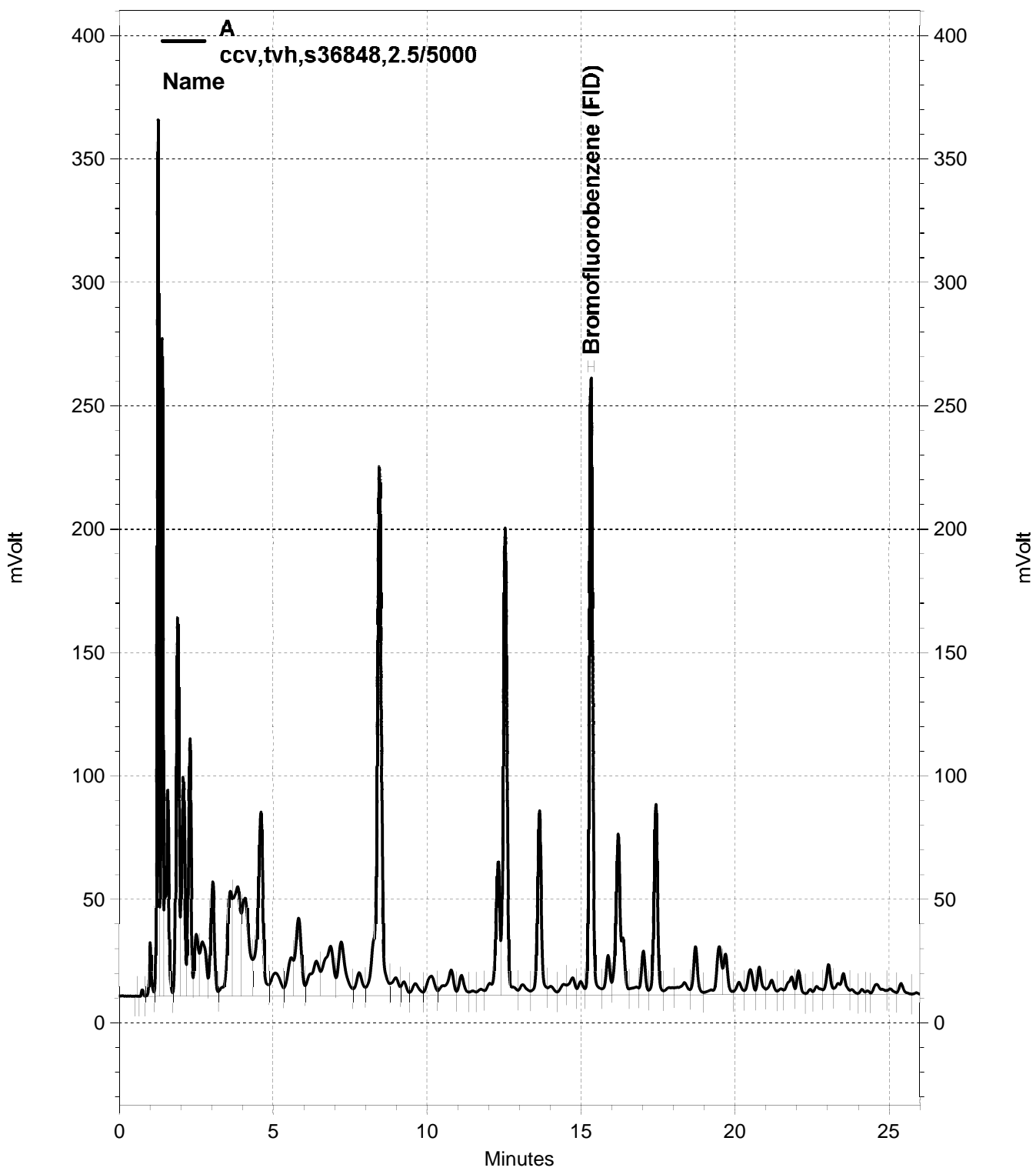
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\180-008, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-005, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\184-006, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-002, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 301076 GCVOA Soil: EPA 8015B

Inst : GC07
 Calnum : 328184879001
 Units : ng

Name : TVH_129
 Date : 08-MAY-2018 21:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	128_017	328184879017	TVH_14	08-MAY-2018 21:46	S36893 (1000X), S36233 (5000X)
L2	128_018	328184879018	TVH_15	08-MAY-2018 22:25	S36892 (1000X), S36233 (5000X)
L3	128_019	328184879019	TVH_16	08-MAY-2018 23:03	S36891 (1000X), S36233 (5000X)
L4	128_020	328184879020	TVH_17	08-MAY-2018 23:42	S36890 (2000X), S36233 (5000X)
L5	128_021	328184879021	TVH_18	09-MAY-2018 00:20	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2551.5	2151.4	1868.7	2079.4	2113.6	AVRG		4.64E-4		2152.9	12	0.995	20	
Bromofluorobenzene (FID)	A	2209.5	2170.3	2197.1	2287.3	2435.2	AVRG		4.43E-4		2259.9	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	19	2500.0	0	10000	-13	25000	-3	50000	-2
Bromofluorobenzene (FID)	A	900.00	-2	900.00	-4	900.00	-3	900.00	1	900.00	8

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07
Calnum : 328184879001

Name : TVH_129
Cal Date : 08-MAY-2018

ICV 328184879024 (128_024 09-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8973	ng	-10	15	

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

ENTHALPY INITIAL CALIBRATION FOR 301076 GCVOA Soil: EPA 8015B

Inst : GC19
 Calnum : 348209722001
 Units : ng

Name : TVH_145
 Date : 25-MAY-2018 15:59
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	145_002	348209722002	TVH_14	25-MAY-2018 15:59	S36893 (1000X), S36233 (5000X)
L2	145_003	348209722003	TVH_15	25-MAY-2018 16:37	S36892 (1000X), S36233 (5000X)
L3	145_004	348209722004	TVH_16	25-MAY-2018 17:15	S36891 (1000X), S36233 (5000X)
L4	145_005	348209722005	TVH_17	25-MAY-2018 17:52	S36890 (2000X), S36233 (5000X)
L5	145_006	348209722006	TVH_18	25-MAY-2018 18:30	S36890 (1250X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	1521.2	1568.1	1224.1	1167.1	1475.3	AVRG		7.19E-4		1391.2	13	0.995	20	
Bromofluorobenzene (FID)	A	1058.0	1037.5	719.12	1094.5	1054.0	AVRG		0.00101		992.60	16	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	9	2500.0	13	10000	-12	25000	-16	40000	6
Bromofluorobenzene (FID)	A	900.00	7	900.00	5	900.00	-28	900.00	10	900.00	6

CJN 05/30/18 : Corrected automatically drawn baseline in TVH_14 (145_002).

Analyst: CJN

Date: 05/30/18

Reviewer: EAH

Date: 05/30/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC19
Calnum : 348209722001

Name : TVH_145
Cal Date : 25-MAY-2018

ICV 348209722009 (145_009 25-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	9755	ng	-2	15	

Analyst: CJN

Date: 05/30/18

Reviewer: EAH

Date: 05/30/18

ENTHALPY SPIKE USER REPORT FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC937851 IDF : 1.0
 Seqnum : 328259800002.4 File : 180_002 Time : 29-JUN-2018 10:39
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2440.7	5000	5668	ng	13	15	u
Bromofluorobenzene (FID)	A	2259.9	2065.9	900.0	822.8	ng	-9	15	u

Analyst: CJN Date: 07/05/18 Reviewer: EAH Date: 07/05/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : MINERAL IDF : 1.0
 Seqnum : 328259800007 File : 180_007 Time : 29-JUN-2018 13:50
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S37507 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Bromofluorobenzene (FID)	A	2259.9	2400.4	900.0	956.0	ng	6	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328259800015 File : 180_015 Time : 29-JUN-2018 19:35
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2265.7	10000	10520	ng	5	15	
Bromofluorobenzene (FID)	A	2259.9	2142.0	900.0	853.1	ng	-5	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328259800028 File : 180_028 Time : 30-JUN-2018 03:52
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2081.0	15000	14500	ng	-3	15	
Bromofluorobenzene (FID)	A	2259.9	2112.5	900.0	841.3	ng	-7	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328259800040 File : 180_040 Time : 30-JUN-2018 11:30
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2039.5	10000	9473	ng	-5	15	
Bromofluorobenzene (FID)	A	2259.9	2087.6	900.0	831.4	ng	-8	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY SPIKE USER REPORT FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC938112 IDF : 1.0
 Seqnum : 328264299002.1 File : 183_002 Time : 02-JUL-2018 13:37
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2261.0	5000	5251	ng	5	15	u
Bromofluorobenzene (FID)	A	2259.9	2064.3	900.0	822.1	ng	-9	15	u

Analyst: CJN Date: 07/05/18 Reviewer: EAH Date: 07/05/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328264299016 File : 183_016 Time : 02-JUL-2018 22:41
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2194.1	10000	10190	ng	2	15	
Bromofluorobenzene (FID)	A	2259.9	2117.7	900.0	843.4	ng	-6	15	

Analyst: JM2 Date: 07/03/18 Reviewer: TKM Date: 07/03/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328264299028 File : 183_028 Time : 03-JUL-2018 06:20
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2080.5	15000	14500	ng	-3	15	
Bromofluorobenzene (FID)	A	2259.9	2167.5	900.0	863.2	ng	-4	15	

Analyst: JM2 Date: 07/03/18 Reviewer: TKM Date: 07/03/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328265546002 File : 184_002 Time : 03-JUL-2018 10:24
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2560.5	5000	5947	ng	19	15	c+ ***
Bromofluorobenzene (FID)	A	2259.9	2100.3	900.0	836.5	ng	-7	15	

Analyst: CJN Date: 07/05/18 Reviewer: EAH Date: 07/05/18

+ = high bias c = CCV

ENTHALPY SPIKE USER REPORT FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC938249 IDF : 1.0
 Seqnum : 328265546004.1 File : 184_004 Time : 03-JUL-2018 11:41
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2451.1	5000	5693	ng	14	15	u
Bromofluorobenzene (FID)	A	2259.9	2085.1	900.0	830.4	ng	-8	15	u

Analyst: CJN Date: 07/05/18 Reviewer: EAH Date: 07/05/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328265546016.5 File : 184_016 Time : 03-JUL-2018 20:35
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2278.7	10000	10580	ng	6	15	
Bromofluorobenzene (FID)	A	2259.9	2153.6	900.0	857.7	ng	-5	15	

Analyst: EAH Date: 07/06/18 Reviewer: TKM Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328265546029 File : 184_029 Time : 04-JUL-2018 04:51
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2116.2	15000	14740	ng	-2	15	
Bromofluorobenzene (FID)	A	2259.9	2175.2	900.0	866.3	ng	-4	15	

Analyst: CJN Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328265546042 File : 184_042 Time : 04-JUL-2018 13:10
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2151.1	10000	9992	ng	0	15	
Bromofluorobenzene (FID)	A	2259.9	2160.3	900.0	860.3	ng	-4	15	

Analyst: CJN Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY SPIKE USER REPORT FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : QC938008 IDF : 1.0
 Seqnum : 348259800004.1 File : 180_004 Time : 29-JUN-2018 11:53
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (2000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1539.2	5000	5532	ng	11	15	u
Bromofluorobenzene (FID)	A	992.60	1112.9	900.0	1009	ng	12	15	u

Analyst: CJN Date: 07/05/18 Reviewer: EAH Date: 07/05/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : STODD IDF : 1.0
 Seqnum : 348259800007 File : 180_007 Time : 29-JUN-2018 13:55
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36189 (1000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Bromofluorobenzene (FID)	A	992.60	1340.5	900.0	1215	ng	35	15	c+

Analyst: CJN Date: 07/05/18 Reviewer: EAH Date: 07/05/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
 Seqnum : 348259800015.1 File : 180_015 Time : 29-JUN-2018 19:35
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (1000X), S37165 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	1391.2	1623.7	10000	11670	ng	17	15	c+ ***
Bromofluorobenzene (FID)	A	992.60	1297.4	900.0	1176	ng	31	15	c+

CJN: 07/05/18 * JM2: 07/05/18 EAH: 07/06/18

+ = high bias c = CCV

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
 Seqnum : 348259800028 File : 180_028 Time : 30-JUN-2018 03:44
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (666.7X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1474.2	15000	15900	ng	6	15	
Bromofluorobenzene (FID)	A	992.60	1222.5	900.0	1108	ng	23	15	c+

JM2 07/02/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
 Seqnum : 348259800034 File : 180_034 Time : 30-JUN-2018 07:29
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (1000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1488.5	10000	10700	ng	7	15	
Bromofluorobenzene (FID)	A	992.60	1246.3	900.0	1130	ng	26	15	c+

JM2 07/02/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

+=high bias c=CCV

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328184879

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/08/18 09:19
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	128_001	X	CMARKER			05/08/18 09:19	1.0	1 2	
002	128_002	CCV	TVH			05/08/18 09:58	1.0	3 2	
003	128_003	CCV/LCS	QC931207	Water	259308	05/08/18 10:36	1.0	4 2	
004	128_004	CCV	TVH			05/08/18 11:15	1.0	3 2	
005	128_005	CCV	BTXE			05/08/18 11:53	1.0	4 2	
006	128_006	BLANK	QC931206	Water	259308	05/08/18 12:31	1.0	2	
007	128_007	MSS	299300-001	Water	259308	05/08/18 15:18	1.0	2	headspace > 1 mL
008	128_008	CCV	BTXE			05/08/18 15:57	1.0	4 2	
011	128_011	IB				05/08/18 17:57	1.0	2	
012	128_012	IB				05/08/18 18:35	1.0	2	
013	128_013	IB				05/08/18 19:13	1.0	2	
014	128_014	IB				05/08/18 19:51	1.0	2	
015	128_015	IB				05/08/18 20:30	1.0	2	
016	128_016	IB	CALIB			05/08/18 21:08	1.0	2	
017	128_017	ICAL	TVH_14			05/08/18 21:46	1.0	5 2	
018	128_018	ICAL	TVH_15			05/08/18 22:25	1.0	6 2	
019	128_019	ICAL	TVH_16			05/08/18 23:03	1.0	7 2	
020	128_020	ICAL	TVH_17			05/08/18 23:42	1.0	8 2	
021	128_021	ICAL	TVH_18			05/09/18 00:20	1.0	8 2	
022	128_022	IB				05/09/18 00:58	1.0	2	
023	128_023	X	ICV			05/09/18 01:37	1.0	9 2	
024	128_024	ICV	TVH			05/09/18 02:15	1.0	9 2	
025	128_025	CMARKER				05/09/18 02:54	1.0	1 2	

Reviewed by: EAH Date: 06/19/18

Standards used: 1=S35319 2=S36233 3=S36103 4=S36185 5=S36893 6=S36892 7=S36891 8=S36890 9=S36894

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328259800

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 06/29/18 10:00
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	180_001	X	CMARKER			06/29/18 10:00	1.0	1 2	
002	180_002	CCV/LCS	QC937851	Soil	260993	06/29/18 10:39	1.0	3 2	
003	180_003	CCV	BTXE			06/29/18 11:17	1.0	4 2	
004	180_004	ICAL	MINERAL			06/29/18 11:55	1.0	5 2	
005	180_005	LCS	QC937879	Water	261000	06/29/18 12:33	1.0	3 2	
006	180_006	CCV	BTXE			06/29/18 13:12	1.0	4 2	
007	180_007	CCV	MINERAL			06/29/18 13:50	1.0	5 2	
008	180_008	BLANK	QC937854	Soil	260993	06/29/18 14:28	1.0	2	
009	180_009	BLANK	QC937882	Water	261000	06/29/18 15:06	1.0	2	
010	180_010	SAMPLE	300451-005	Water	261000	06/29/18 16:25	1.0	2	sh , headspace > 1 mL
011	180_011	MSS	300451-001	Water	261000	06/29/18 17:03	1.0	2	sh , headspace > 1 mL
012	180_012	SAMPLE	300451-002	Water	261000	06/29/18 17:42	1.0	2	sh , headspace > 1 mL, 1:MTBE=1500
013	180_013	SAMPLE	300451-003	Water	261000	06/29/18 18:20	1.0	2	sh , headspace > 1 mL
014	180_014	SAMPLE	300451-004	Water	261000	06/29/18 18:58	50.0	2	sh , headspace > 1 mL
015	180_015	CCV	TVH			06/29/18 19:35	1.0	3 2	
016	180_016	CCV	MINERAL			06/29/18 20:14	1.0	5 2	
017	180_017	X	CMARKER			06/29/18 20:51	1.0	1 2	
018	180_018	SAMPLE	301076-021	Soil	260993	06/29/18 21:29	1.0	2	
019	180_019	SAMPLE	301076-022	Soil	260993	06/29/18 22:08	1.0	2	
020	180_020	SAMPLE	301076-023	Soil	260993	06/29/18 22:46	1.0	2	
021	180_021	SAMPLE	301140-005	Soil	260993	06/29/18 23:24	1.0	2	
022	180_022	MSS	301080-001	Soil	260993	06/30/18 00:03	1.0	2	
023	180_023	SAMPLE	301080-002	Soil	260993	06/30/18 00:41	1.0	2	
024	180_024	SAMPLE	301080-004	Soil	260993	06/30/18 01:19	1.0	2	
025	180_025	SAMPLE	301080-005	Soil	260993	06/30/18 01:57	1.0	2	
026	180_026	MS	QC937880	Water	261000	06/30/18 02:36	1.0	3 2	
027	180_027	MSD	QC937881	Water	261000	06/30/18 03:14	1.0	3 2	
028	180_028	CCV	TVH			06/30/18 03:52	1.0	3 2	
029	180_029	X	CMARKER			06/30/18 04:30	1.0	1 2	
030	180_030	SAMPLE	301104-001	Soil	260993	06/30/18 05:08	1.0	2	
031	180_031	SAMPLE	301104-002	Soil	260993	06/30/18 05:46	1.0	2	
032	180_032	SAMPLE	301104-003	Soil	260993	06/30/18 06:25	1.0	2	
033	180_033	SAMPLE	301104-004	Soil	260993	06/30/18 07:03	1.0	2	
034	180_034	SAMPLE	301104-005	Soil	260993	06/30/18 07:41	1.0	2	
035	180_035	SAMPLE	301104-006	Soil	260993	06/30/18 08:19	1.0	2	
036	180_036	SAMPLE	301104-007	Soil	260993	06/30/18 08:58	1.0	2	
037	180_037	SAMPLE	301137-003	Soil	260993	06/30/18 09:36	1.0	2	
038	180_038	MS	QC937852	Soil	260993	06/30/18 10:14	1.0	3 2	
039	180_039	MSD	QC937853	Soil	260993	06/30/18 10:52	1.0	3 2	
040	180_040	CCV	TVH			06/30/18 11:30	1.0	3 2	
041	180_041	X	CMARKER			06/30/18 12:09	1.0	1 2	
042	180_042	SAMPLE	301104-008	Soil	260993	06/30/18 12:47	1.0	2	
043	180_043	SAMPLE	301104-009	Soil	260993	06/30/18 13:25	1.0	2	
044	180_044	SAMPLE	301104-010	Soil	260993	06/30/18 14:03	1.0	2	
045	180_045	SAMPLE	301104-011	Soil	260993	06/30/18 14:41	1.0	2	
046	180_046	SAMPLE	301104-012	Soil	260993	06/30/18 15:20	1.0	2	
047	180_047	CCV	TVH			06/30/18 15:58	1.0	3 2	
048	180_048	X	CMARKER			06/30/18 16:36	1.0	1 2	

JM2 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 48.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328259800

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 06/29/18 10:00
SOP Version : TVH_BTXE_rv23

Reviewed by: JM2 Date: 07/02/18

Standards used: 1=S35319 2=S37192 3=S36848 4=S36185 5=S37507

Flags used: sh-out of sample hold

Page 2 of 2

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328264299

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 07/02/18 12:59
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	183_001	X	CMARKER			07/02/18 12:59	1.0	1 2
002	183_002	CCV/BS	QC938112	Soil	261057	07/02/18 13:37	1.0	3 2
003	183_003	BSD	QC938113	Soil	261057	07/02/18 14:16	1.0	3 2
004	183_004	IB				07/02/18 14:53	1.0	2
005	183_005	BLANK	QC938114	Soil	261057	07/02/18 15:32	1.0	2
006	183_006	SAMPLE	301076-001	Soil	261057	07/02/18 16:19	1.0	2
007	183_007	SAMPLE	301076-002	Soil	261057	07/02/18 16:57	1.0	2
008	183_008	SAMPLE	301076-003	Soil	261057	07/02/18 17:35	1.0	2
009	183_009	SAMPLE	301076-004	Soil	261057	07/02/18 18:14	1.0	2
010	183_010	SAMPLE	301076-005	Soil	261057	07/02/18 18:52	1.0	2
011	183_011	SAMPLE	301076-006	Soil	261057	07/02/18 19:30	1.0	2
012	183_012	SAMPLE	301076-007	Soil	261057	07/02/18 20:08	1.0	2
013	183_013	SAMPLE	301076-008	Soil	261057	07/02/18 20:46	1.0	2
014	183_014	SAMPLE	301076-009	Soil	261057	07/02/18 21:24	1.0	2
015	183_015	SAMPLE	301076-010	Soil	261057	07/02/18 22:03	1.0	2
016	183_016	CCV	TVH			07/02/18 22:41	1.0	3 2
017	183_017	X	CMARKER			07/02/18 23:19	1.0	1 2
018	183_018	SAMPLE	301076-011	Soil	261057	07/02/18 23:58	1.0	2
019	183_019	SAMPLE	301076-012	Soil	261057	07/03/18 00:36	1.0	2
020	183_020	SAMPLE	301076-013	Soil	261057	07/03/18 01:14	1.0	2
021	183_021	SAMPLE	301076-014	Soil	261057	07/03/18 01:52	1.0	2
022	183_022	SAMPLE	301076-015	Soil	261057	07/03/18 02:31	1.0	2
023	183_023	SAMPLE	301076-016	Soil	261057	07/03/18 03:09	1.0	2
024	183_024	SAMPLE	301076-020	Soil	261057	07/03/18 03:47	1.0	2
025	183_025	SAMPLE	301076-021	Soil	261057	07/03/18 04:25	1.0	2
026	183_026	SAMPLE	301104-013	Soil	261057	07/03/18 05:04	1.0	2
027	183_027	SAMPLE	301104-014	Soil	261057	07/03/18 05:42	1.0	2
028	183_028	CCV	TVH			07/03/18 06:20	1.0	3 2
029	183_029	X	CMARKER			07/03/18 06:58	1.0	1 2

JM2 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

Reviewed by: JM2 Date: 07/03/18

Standards used: 1=S35319 2=S37192 3=S36848

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328265546

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 07/03/18 09:46
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	184_001	X	CMARKER			07/03/18 09:46	1.0	1 2	
002	184_002	CCV	TVH			07/03/18 10:24	1.0	3 2	
003	184_003	CCV/BS	QC938329	Water	261100	07/03/18 11:03	1.0	4 2	
004	184_004	CCV/LCS	QC938249	Soil	261094	07/03/18 11:41	1.0	3 2	
005	184_005	BSD	QC938330	Water	261100	07/03/18 12:19	1.0	4 2	
006	184_006	BLANK	QC938252	Soil	261094	07/03/18 12:57	1.0	2	
007	184_007	BLANK	QC938277	Water	261100	07/03/18 13:35	1.0	2	
008	184_008	SAMPLE	301148-001	Soil	261094	07/03/18 15:28	1.0	2	
009	184_009	MSS	301148-002	Soil	261094	07/03/18 16:07	1.0	2	
010	184_010	SAMPLE	301148-003	Soil	261094	07/03/18 16:45	1.0	2	
011	184_011	SAMPLE	301148-004	Soil	261094	07/03/18 17:23	1.0	2	
012	184_012	SAMPLE	301148-005	Soil	261094	07/03/18 18:02	1.0	2	
013	184_013	MSS	301148-006	Soil	261094	07/03/18 18:40	1.0	2	
014	184_014	MS	QC938250	Soil	261094	07/03/18 19:19	1.0	3 2	
015	184_015	MSD	QC938251	Soil	261094	07/03/18 19:57	1.0	3 2	
016	184_016	CCV/LCS	QC938274	Water	261100	07/03/18 20:35	1.0	3 2	
017	184_017	X	CMARKER			07/03/18 21:13	1.0	1 2	
018	184_018	CCV	BTXE			07/03/18 21:51	1.0	4 2	
019	184_019	SAMPLE	301148-007	Soil	261094	07/03/18 22:30	1.0	2	
020	184_020	SAMPLE	301148-008	Soil	261094	07/03/18 23:08	1.0	2	
021	184_021	SAMPLE	301164-010	Soil	261094	07/03/18 23:46	1.0	2	
022	184_022	SAMPLE	301164-013	Soil	261094	07/04/18 00:24	1.0	2	
023	184_023	MSS	301237-005	Water	261100	07/04/18 01:02	1.0	2	
024	184_024	SAMPLE	301237-006	Water	261100	07/04/18 01:40	1.0	2	
025	184_025	SAMPLE	301235-001	Water	261100	07/04/18 02:19	5.0	2	diluted (odor)
026	184_026	SAMPLE	301236-001	Water	261100	07/04/18 02:57	5.0	2	diluted (client history), headspace > 1 mL, 1:XYLMP=2100
027	184_027	SAMPLE	301236-003	Water	261100	07/04/18 03:35	100.0	2	diluted (client history)
028	184_028	SAMPLE	301236-002	Water	261100	07/04/18 04:13	500.0	2	diluted (client history)
029	184_029	CCV	TVH			07/04/18 04:51	1.0	3 2	
030	184_030	X	CMARKER			07/04/18 05:30	1.0	1 2	
031	184_031	CCV	BTXE			07/04/18 06:08	1.0	4 2	
032	184_032	SAMPLE	301213-001	Soil	261094	07/04/18 06:46	1.0	2	
033	184_033	SAMPLE	301216-001	Soil	261094	07/04/18 07:24	1.0	2	
034	184_034	SAMPLE	301216-002	Soil	261094	07/04/18 08:02	1.0	2	
035	184_035	SAMPLE	301216-003	Soil	261094	07/04/18 08:41	1.0	2	
036	184_036	SAMPLE	301076-011	Soil	261094	07/04/18 09:20	1.0	2	
037	184_037	SAMPLE	301164-001	Soil	261094	07/04/18 09:58	1.0	2	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328265546

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 07/03/18 09:46
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
038	184_038	SAMPLE	301164-004	Soil	261094	07/04/18 10:36	1.0	2
039	184_039	SAMPLE	301164-007	Soil	261094	07/04/18 11:15	1.0	2
040	184_040	MS	QC938253	Soil	261094	07/04/18 11:54	1.0	3 2
041	184_041	MSD	QC938254	Soil	261094	07/04/18 12:32	1.0	3 2
042	184_042	CCV	TVH			07/04/18 13:10	1.0	3 2
043	184_043	X	CMARKER			07/04/18 13:48	1.0	1 2
044	184_044	SAMPLE	301164-014	Soil	261094	07/04/18 15:07	1.0	2
045	184_045	SAMPLE	301164-015	Soil	261094	07/04/18 15:45	1.0	2
046	184_046	MS	QC938275	Water	261100	07/04/18 16:23	1.0	3 2
047	184_047	MSD	QC938276	Water	261100	07/04/18 17:02	1.0	3 2
048	184_048	CCV	TVH			07/04/18 17:40	1.0	3 2
049	184_049	X	CMARKER			07/04/18 18:18	1.0	1 2

CJN 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 49.

Reviewed by: CJN Date: 07/05/18

Standards used: 1=S35319 2=S37192 3=S36848 4=S37506

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348209722

Instrument : GC19
 Method : EPA 8015B, EPA 8021B

Begun : 05/25/18 15:22
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	145_001	IB	CALIB			05/25/18 15:22	1.0	1
002	145_002	ICAL	TVH_14			05/25/18 15:59	1.0	2 1
003	145_003	ICAL	TVH_15			05/25/18 16:37	1.0	3 1
004	145_004	ICAL	TVH_16			05/25/18 17:15	1.0	4 1
005	145_005	ICAL	TVH_17			05/25/18 17:52	1.0	5 1
006	145_006	ICAL	TVH_18			05/25/18 18:30	1.0	5 1
007	145_007	IB				05/25/18 19:07	1.0	1
008	145_008	X	ICV			05/25/18 19:45	1.0	6 1
009	145_009	ICV	TVH			05/25/18 20:23	1.0	6 1
010	145_010	CMARKER				05/25/18 21:00	1.0	7 1
011	145_011	IB	CALIB			05/25/18 21:38	1.0	1
012	145_012	ICAL	BTXE_1			05/25/18 22:16	1.0	8 1
013	145_013	ICAL	MBTXE_2			05/25/18 22:53	1.0	9 1
014	145_014	ICAL	MBTXE_3			05/25/18 23:31	1.0	9 1
015	145_015	ICAL	MBTXE_4			05/26/18 00:09	1.0	9 1
016	145_016	ICAL	MBTXE_5			05/26/18 00:46	1.0	10 1
017	145_017	ICAL	MBTXE_6			05/26/18 01:24	1.0	10 1
018	145_018	ICAL	MBTXE_7			05/26/18 02:01	1.0	10 1
019	145_019	ICAL	MBTE_7			05/26/18 02:39	1.0	11 1
020	145_020	IB				05/26/18 03:17	1.0	1
021	145_021	X	ICV			05/26/18 03:54	1.0	12 1
022	145_022	ICV	MBTXE			05/26/18 04:32	1.0	12 1

Reviewed by: _____ Date: _____

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S36859 8=S36905 9=S36904 10=S36903 11=S36980
 12=S36861

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348259800

Instrument : GC19
 Method : EPA 8015B, EPA 8021B

Begun : 06/29/18 10:00
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	180_001	X	CMARKER			06/29/18 10:00	1.0	1 2	
002	180_002	CCV	TVH			06/29/18 10:37	1.0	3 2	
003	180_003	ICAL	STODD			06/29/18 11:15	1.0	4 2	
004	180_004	CCV/LCS	QC938008	Soil	260999	06/29/18 11:53	1.0	3 2	
005	180_005	CCV	STODD			06/29/18 12:40	1.0	4 2	1:AVGAS:7-12=22000
006	180_006	IB				06/29/18 13:17	1.0	2	
007	180_007	CCV	STODD			06/29/18 13:55	1.0	4 2	1:AVGAS:7-12=15000
008	180_008	BLANK	QC937878	Soil	260999	06/29/18 14:32	1.0	2	
009	180_009	SAMPLE	301076-001	Soil	260999	06/29/18 15:49	1.0	2	
010	180_010	SAMPLE	301076-002	Soil	260999	06/29/18 16:27	1.0	2	
011	180_011	SAMPLE	301076-003	Soil	260999	06/29/18 17:04	1.0	2	
012	180_012	SAMPLE	301076-004	Soil	260999	06/29/18 17:42	1.0	2	
013	180_013	SAMPLE	301076-005	Soil	260999	06/29/18 18:20	1.0	2	
014	180_014	SAMPLE	301076-006	Soil	260999	06/29/18 18:57	1.0	2	
015	180_015	CCV	TVH			06/29/18 19:35	1.0	3 2	
016	180_016	CCV	TVH			06/29/18 20:13	1.0	3 2	
017	180_017	X	CMARKER			06/29/18 20:50	1.0	1 2	
018	180_018	SAMPLE	301076-007	Soil	260999	06/29/18 21:28	1.0	2	
019	180_019	SAMPLE	301076-008	Soil	260999	06/29/18 22:06	1.0	2	
020	180_020	SAMPLE	301076-009	Soil	260999	06/29/18 22:43	1.0	2	
021	180_021	SAMPLE	301076-010	Soil	260999	06/29/18 23:21	1.0	2	
022	180_022	SAMPLE	301076-011	Soil	260999	06/29/18 23:59	1.0	2	
023	180_023	SAMPLE	301076-012	Soil	260999	06/30/18 00:36	1.0	2	
024	180_024	SAMPLE	301076-013	Soil	260999	06/30/18 01:14	1.0	2	
025	180_025	SAMPLE	301076-014	Soil	260999	06/30/18 01:51	1.0	2	
026	180_026	SAMPLE	301076-015	Soil	260999	06/30/18 02:29	1.0	2	
027	180_027	SAMPLE	301076-016	Soil	260999	06/30/18 03:06	1.0	2	
028	180_028	CCV	TVH			06/30/18 03:44	1.0	3 2	1:AVGAS:7-12=16000
029	180_029	X	CMARKER			06/30/18 04:22	1.0	1 2	
030	180_030	SAMPLE	301076-017	Soil	260999	06/30/18 04:59	1.0	2	
031	180_031	SAMPLE	301076-018	Soil	260999	06/30/18 05:37	1.0	2	
032	180_032	SAMPLE	301076-019	Soil	260999	06/30/18 06:14	1.0	2	
033	180_033	SAMPLE	301076-020	Soil	260999	06/30/18 06:52	1.0	2	
034	180_034	CCV	TVH			06/30/18 07:29	1.0	3 2	
035	180_035	X	CMARKER			06/30/18 08:07	1.0	1 2	

JM2 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 35.

Reviewed by: JM2 Date: 07/02/18

Standards used: 1=S35319 2=S37165 3=S36848 4=S36189

TITLE	PROJECT	DATE
Continued from page		
Sample	ID	Weight (g)
300985-2	A	1.03 ^{0.93} ^{0.93} ^{6/27} 0.93
-3		0.90
-4		0.91
-5		0.92
-6		1.03
-7		0.90
-1 MS		1.02
-1 MSD		1.0 ^{1.09} ^{6/27} 1.09
300966-1	C MeOH	10/5000
30096-16	A	0.92
301044-1 MS		0.99
-1 MSD		0.96
300978-7	C	33.19 - 30.559 - 0.36 = 2.27
301003-2	B	37.30 - 30.465 - 0.36 = 6.48
-3	L	37.34 - 30.558 = 6.42
-4	A	37.40 - 30.568 = 6.47
-5		37.94 - 30.832 = 6.75
-6		37.45 - 30.864 = 6.23
301132-1	A	0.93
-2		0.99
- MS		0.93
- MSD		1.00
301114-5	A	1.00
301124-1		0.96
301106-1	A	0.95
-2		0.93
-2 MS		0.93
-2 MSD		0.93
300978-7	D	33.55 - 30.648 - 0.36 = 2.54
301140-5	A	1.07
301080-1		0.94
-2		0.94
-4		0.96
-5		1.00
-1 MS		0.95
-1 MSD		0.99
301003-1	B	37.34 - 30.575 - 0.36 = 6.41
-7	A	37.25 - 30.733 = 6.16
-8		37.44 - 30.595 = 6.49
-9		36.14 - 30.834 = 4.95
-10		36.89 - 30.691 = 5.89
-11		36.45 - 30.422 = 5.67
-12		36.49 - 30.511 = 5.62
SIGNATURE	DATE	Comments: Initials
		corp 114-(1-9)
DISCLOSED TO AND UNDERSTOOD BY	DATE	PROPRIETARY INFORMATION

Continued to page

TITLE PROJECT DATE

Continued from page	Sample	ID	Weight (g)	NAIHO	Comments: Initials	Bal ID
	301003-13	A	37.61 - 30.850 - 0.36 = 6.40	No	JMZ 6/29/18	B-6
5	-14		36.74 - 30.872 = 5.51			
	-15		37.61 - 30.744 = 6.51			
	-16		37.62 - 30.712 = 6.55			
	-17		36.94 - 30.692 = 5.94			
	-18		37.33 - 30.848 = 6.12			
	-19		37.07 - 30.621 = 6.09			
10	-20		36.55 - 30.670 = 5.52			
	-21		37.10 - 30.726 = 6.01			
	-22		37.70 - 30.744 = 6.60			
	-23		37.32 - 30.691 = 6.27			
	301107-2	D	39.68 - 35.440 - 0.36 = 3.88	Yes		
15	-2	MS E	41.90 - 35.260 = 6.28			
	-2	MSD F	40.95 - 35.110 = 5.48			
	-3	JM 6/29 MSB B	39.22 - 35.120 = 3.74			
	301076-1	A	38.09 - 30.672 - 0.36 = 7.06	No		
20	-2		38.32 - 30.620 = 7.34			
	-3		37.82 - 30.577 = 6.88			
	-4		38.33 - 30.620 = 7.35			
	-5		37.94 - 30.506 = 7.07			
	-6		38.33 - 30.686 = 7.28			
	-7		37.61 - 30.542 = 6.71			
25	-8		38.64 - 30.668 = 7.61			
	-9		37.64 - 30.539 = 6.74			
	-10		37.80 - 30.705 = 6.74			
	-11		37.82 - 30.686 = 6.77			
	-12		37.27 - 30.642 = 6.27			
30	-13		37.96 - 30.671 = 6.93			
	-14		36.88 - 30.510 = 6.01			
	-15		37.99 - 30.644 = 6.99			
	-16		37.46 - 30.784 = 6.32			
35	-17		36.45 - 30.367 = 5.72			
	-18		38.57 - 31.101 = 7.11			
	-19		38.06 - 30.546 = 7.15			
	-20		37.72 - 30.577 = 6.78			
	301137-3	A	0.90		comp 137-(1,2)	
40	301076-21		37.49 - 30.637 - 0.36 = 6.49			
	-22		38.90 - 30.636 = 7.90			
	-23		38.02 - 30.742 = 6.92			
	301107-1	A	38.04 - 30.437 - 0.36 = 7.24			
45	-2		37.93 - 30.619 = 6.95			
	-3		37.71 - 30.674 = 6.68			
	-4		37.70 - 30.322 = 7.02			

SIGNATURE

DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE PROJECT DATE

Continued from page		ID	Weight (g)	Net Wt	Comments: Initials	Bal. ID
Sample						
301104-5	A		37.47 - 30.750 - 0.36 = 6.36	No	JML 6/29/18	B-6
-6			38.40 - 30.716 = 7.32			
-7			38.11 - 30.590 = 7.16			
-8			38.75 - 30.675 = 7.72			
-9			38.59 - 30.579 = 7.65			
-10			38.14 - 30.784 = 7.00			
-11			38.51 - 30.756 = 7.39			
-12			37.58 - 30.716 = 6.50			
SIGNATURE		DATE		Continued to page		
DISCLOSED TO AND UNDERSTOOD BY		DATE		PROPRIETARY INFORMATION		

TITLE PROJECT DATE

Continued from page	Sample	ID	Weight (g)	NatCo	Comments: Initials	Bulk ID
	301003-13	A	37.61 - 30.850 - 0.36 = 6.40	No	JMZ 6/29/18	B-6
5	-14	|	36.74 - 30.872 = 5.51	|	|	|
	-15	|	37.61 - 30.744 = 6.51	|	|	|
	-16	|	37.62 - 30.712 = 6.55	|	|	|
	-17	|	36.94 - 30.692 = 5.94	|	|	|
	-18	|	37.33 - 30.848 = 6.12	|	|	|
	-19	|	37.07 - 30.621 = 6.09	|	|	|
10	-20	|	36.55 - 30.670 = 5.52	|	|	|
	-21	|	37.10 - 30.726 = 6.01	|	|	|
	-22	|	37.70 - 30.744 = 6.60	|	|	|
	-23	|	37.32 - 30.691 = 6.27	|	|	|
	301107-2	D	39.68 - 35.490 - 0.36 = 3.88	Yes		
15	-2	MS E	41.90 - 35.260 = 6.28	|	|	|
	-2	MSD F	40.95 - 35.110 = 5.48	|	|	|
	-3	JMZ 6/29 MSD B	39.22 - 35.120 = 3.74	|	|	|
	301076-1	A	38.09 - 30.672 - 0.36 = 7.06	No		
20	-2	|	38.32 - 30.620 = 7.34	|	|	|
	-3	|	37.82 - 30.577 = 6.88	|	|	|
	-4	|	38.33 - 30.620 = 7.35	|	|	|
	-5	|	37.94 - 30.506 = 7.07	|	|	|
	-6	|	38.33 - 30.686 = 7.28	|	|	|
	-7	|	37.61 - 30.542 = 6.71	|	|	|
25	-8	|	38.64 - 30.668 = 7.61	|	|	|
	-9	|	37.64 - 30.539 = 6.74	|	|	|
	-10	|	37.80 - 30.705 = 6.74	|	|	|
	-11	|	37.82 - 30.686 = 6.77	|	|	|
	-12	|	37.27 - 30.642 = 6.27	|	|	|
30	-13	|	37.96 - 30.671 = 6.93	|	|	|
	-14	|	36.88 - 30.510 = 6.01	|	|	|
	-15	|	37.99 - 30.644 = 6.99	|	|	|
	-16	|	37.46 - 30.784 = 6.32	|	|	|
	-17	|	36.45 - 30.367 = 5.72	|	|	|
35	-18	|	38.57 - 31.101 = 7.11	|	|	|
	-19	|	38.06 - 30.546 = 7.15	|	|	|
	-20	|	37.72 - 30.577 = 6.78	|	|	|
	301137-3	A	0.90		corp 137-(1,2)	
40	301076-21	|	37.49 - 30.637 - 0.36 = 6.49	|	|	|
	-22	|	38.90 - 30.636 = 7.90	|	|	|
	-23	|	38.02 - 30.742 = 6.92	|	|	|
	301109-1	A	38.04 - 30.437 - 0.36 = 7.24	|	|	|
	-2	|	37.93 - 30.619 = 6.95	|	|	|
	-3	|	37.71 - 30.674 = 6.68	|	|	|
45	-4	|	37.70 - 30.322 = 7.02	|	|	|

SIGNATURE

DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE PROJECT DATE

Continued from page		ID	Weight (S)	Moisture	Comments: Initials	Bal. ID
301104-5	A		37.47 - 30.750 - 0.36 = 6.36	No	JM 6/29/18	B-6
5			38.40 - 30.716 = 7.32			
			38.11 - 30.590 = 7.16			
			38.75 - 30.675 = 7.72			
			38.59 - 30.579 = 7.65			
			38.14 - 30.784 = 7.00			
			38.51 - 30.756 = 7.39			
10			37.58 - 30.716 = 6.50			
301003-13	B		36.97 - 30.629 - 0.36 = 5.98	No	JM 7/2/18	B-6
301107-2	L		40.90 - 35.14 - 0.36 = 5.40	Yes		
	MS	K	40.75 - 35.18 = 5.21			
	MSD	J	42.00 - 35.24 = 6.90			
15						
301076-1	B		37.92 - 30.584 - 0.36 = 6.48	No		
			37.08 - 30.658 = 6.06			
			37.59 - 30.272 = 6.96			
			38.45 - 30.758 = 7.33			
			38.40 - 30.487 = 7.55			
20			38.39 - 30.517 = 7.51			
			38.05 - 30.669 = 7.03			
			38.33 - 30.700 = 7.27			
			37.91 - 30.914 = 6.64			
			37.65 - 30.644 = 6.65			
25			37.69 - 30.637 = 6.69			
			37.07 - 31.226 = 5.48			
			37.64 - 30.543 = 6.74			
			38.56 - 30.937 = 7.26			
			35.76 - 30.477 = 4.92			
30			37.97 - 30.613 = 7.00			
			37.56 - 30.621 = 6.58			
			37.45 - 30.913 = 6.18			
301104-13	A		38.30 - 30.664 - 0.36 = 7.28			
			37.69 - 30.554 = 6.78			
35						
301119-1	A		0.95			
			0.93			
			0.93			
			0.96			
301143-1	A		35.42 - 30.774 - 0.56 = 4.09			
40						
301147-2			40.77 - 34.81 - 0.36 = 5.60	Yes		
			41.50 - 35.38 = 5.76			
			40.91 - 35.11 = 5.44			
			40.06 - 35.18 = 4.52			
			40.42 - 35.35 = 4.71			
45			42.10 - 35.77 = 5.97			

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE PROJECT DATE

Continued from page	Sample	FD	Weight (g)	No. H ₂ O ₂	Comments: Initials	Bat. #
	301147-3	MS B	41.85 - 35.64 - 0.36 = 5.85	Yes	JM 7/2/18	B-6
	↓ -3	MSD C	41.52 - 35.39 ↓ = 5.77	↓		
5	301170-1	A	1.08	No		
	↓ -2	↓	1.02	↓		
	↓ -3	↓	1.02	↓		
	301148-1	A	41.42 - 35.13 - 0.36 = 5.93	Yes	JM 7/3/18	B-6
	↓ -2	↓	35.82 - 29.964 = 5.50	No		
10	↓ -2	MS B	36.97 - 30.660 = 5.95	↓		
	↓ -2	MSD C	36.46 - 30.447 = 5.65	↓		
	↓ -3	A	36.28 - 30.471 = 5.45	↓		
	↓ -4	↓	41.26 - 35.75 = 5.15	Yes		
	↓ -5	↓	41.18 - 35.78 = 5.04	↓		
15	↓ -6	↓	37.50 - 30.261 = 6.88	No		
	↓ -6	MS B	36.94 - 30.509 = 6.07	↓		
	↓ -6	MSD C	33.30 - 30.376 = 2.56	↓		
	↓ -7	A	35.59 - 30.427 = 4.80	↓		
	↓ -8	↓	37.73 - 35.61 = 1.76	Yes		
20	301176-2	A	36.98 - 30.761 - 0.2 = 5.52	No		
	↓ -3	↓	37.17 - 30.787 = 6.18	↓		
	↓ -4	↓	37.82 - 31.705 = 5.92	↓		
	↓ -5	↓	37.92 - 31.395 = 6.33	↓		
	↓ -7	↓	36.82 - 30.851 = 5.77	↓	No weight label, using average weight	
25	↓ -8	↓	36.21 = 5.16	↓		
	↓ -9	↓	36.57 = 5.52	↓		
	↓ -10	↓	37.39 = 6.34	↓		
	↓ -11	↓	36.18 - 30.435 = 5.55	↓		
	↓ -12	↓	36.29 - 30.788 = 5.30	↓		
30	↓ -13	↓	36.66 - 30.782 = 5.68	↓		
	↓ -16	↓	35.84 - 31.027 = 4.61	↓		
	↓ -17	↓	36.12 - 30.654 = 5.34	↓		
	↓ -18	↓	36.47 - 30.890 = 5.38	↓		
	↓ -19	↓	36.85 - 30.607 = 6.04	↓		
35	↓ -21	↓	36.46 - 31.086 = 5.17	↓		
	↓ -22	↓	35.44 - 30.438 = 4.80	↓		
	↓ -23	↓	34.45 - 30.563 = 3.69	↓		
	301164-1	A	0.94	No		
	↓ -4	↓	0.94	↓		
40	↓ -7	↓	0.96	↓		
	↓ -10	↓	1.07	↓		
	↓ -13	↓	1.02	↓		
	↓ -14	↓	0.94	↓		
45	↓ -15	↓	1.06	↓		
	↓ -14	MS ↓	0.99	↓		

SIGNATURE

DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

Laboratory Job Number 301076

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Water

Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	BR11-1GW03[3]RB03[5]	Sampled:	06/26/18
Matrix:	Water	Received:	06/26/18
Units:	ug/L	Prepared:	07/02/18
Diln Fac:	1.000	Analyzed:	07/03/18
Batch#:	261052		

Type: SAMPLE Lab ID: 301076-025

Analyte	Result	RL	MDL
Diesel C10-C24	200 Y Z	50	16
Motor Oil C24-C36	100 J Y	300	96
Bunker C C12-C40	660 Y Z	300	

Surrogate	%REC	Limits
o-Terphenyl	101	58-123

Type: BLANK Lab ID: QC938088

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96
Bunker C C12-C40	ND	300	

Surrogate	%REC	Limits
o-Terphenyl	95	58-123

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	261052
Units:	ug/L	Prepared:	07/02/18
Diln Fac:	1.000	Analyzed:	07/03/18

Type: BS Lab ID: QC938089

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,376	95	56-120

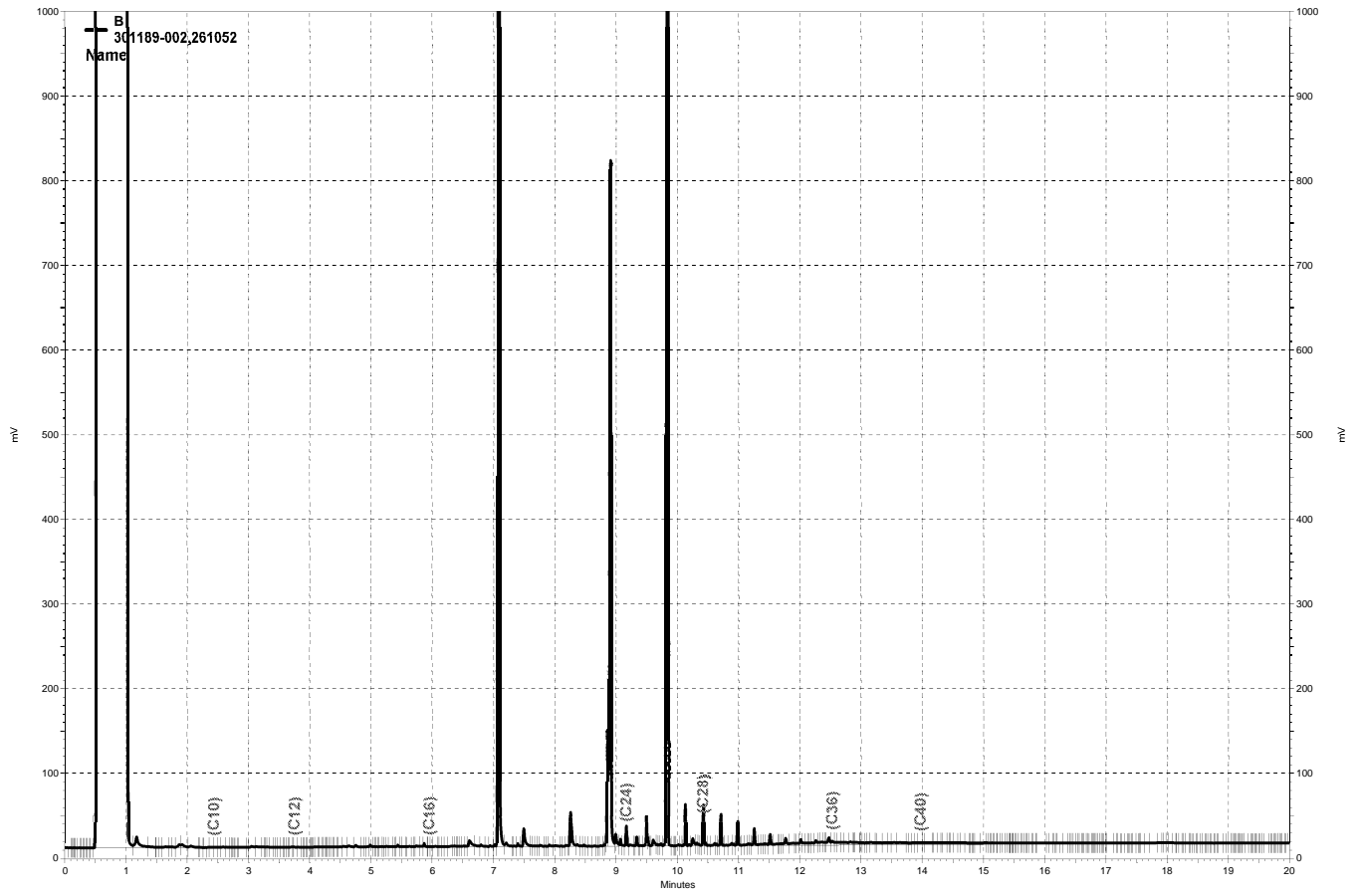
Surrogate	%REC	Limits
o-Terphenyl	106	58-123

Type: BSD Lab ID: QC938090

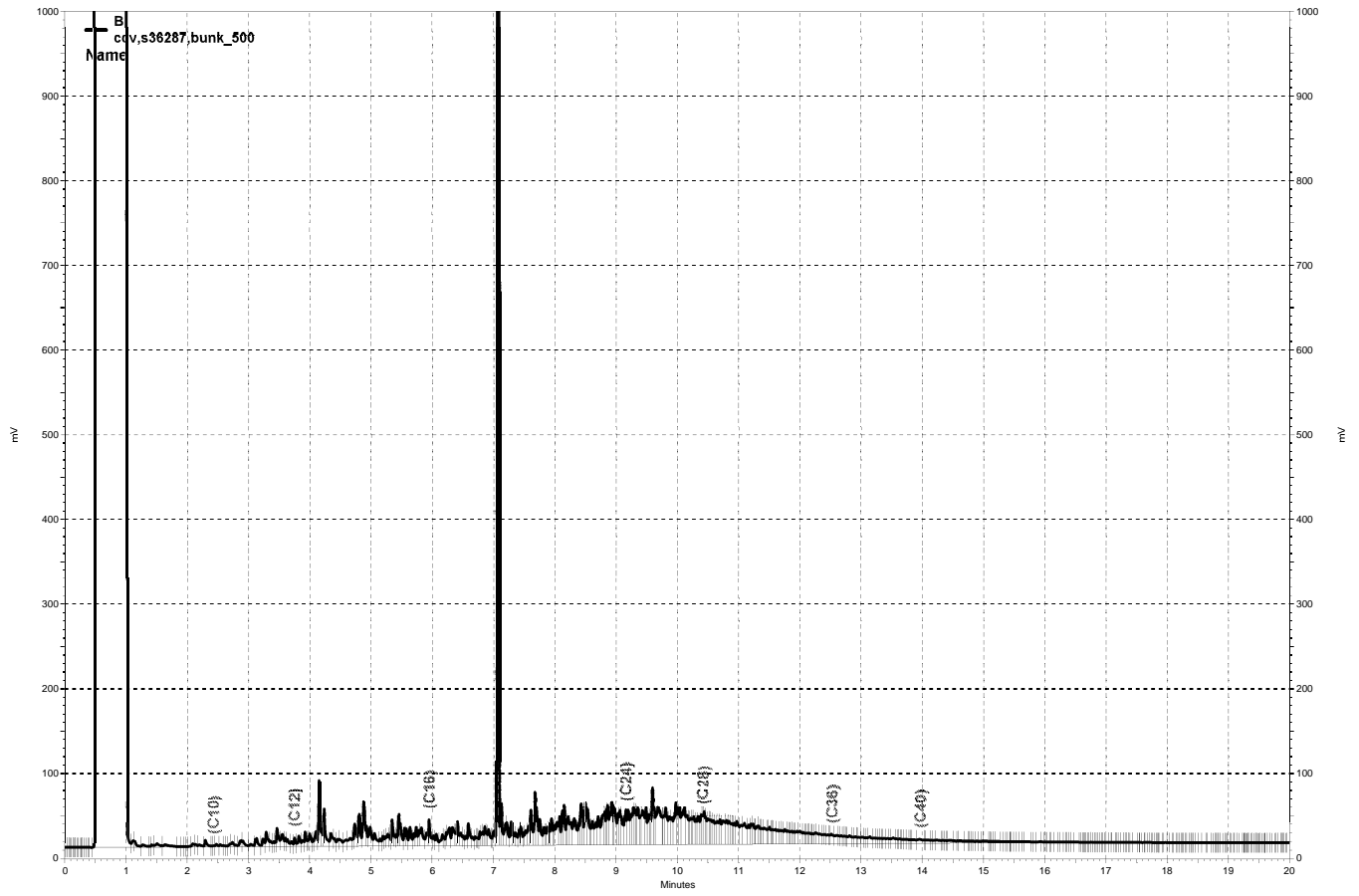
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,234	89	56-120	6	28

Surrogate	%REC	Limits
o-Terphenyl	101	58-123

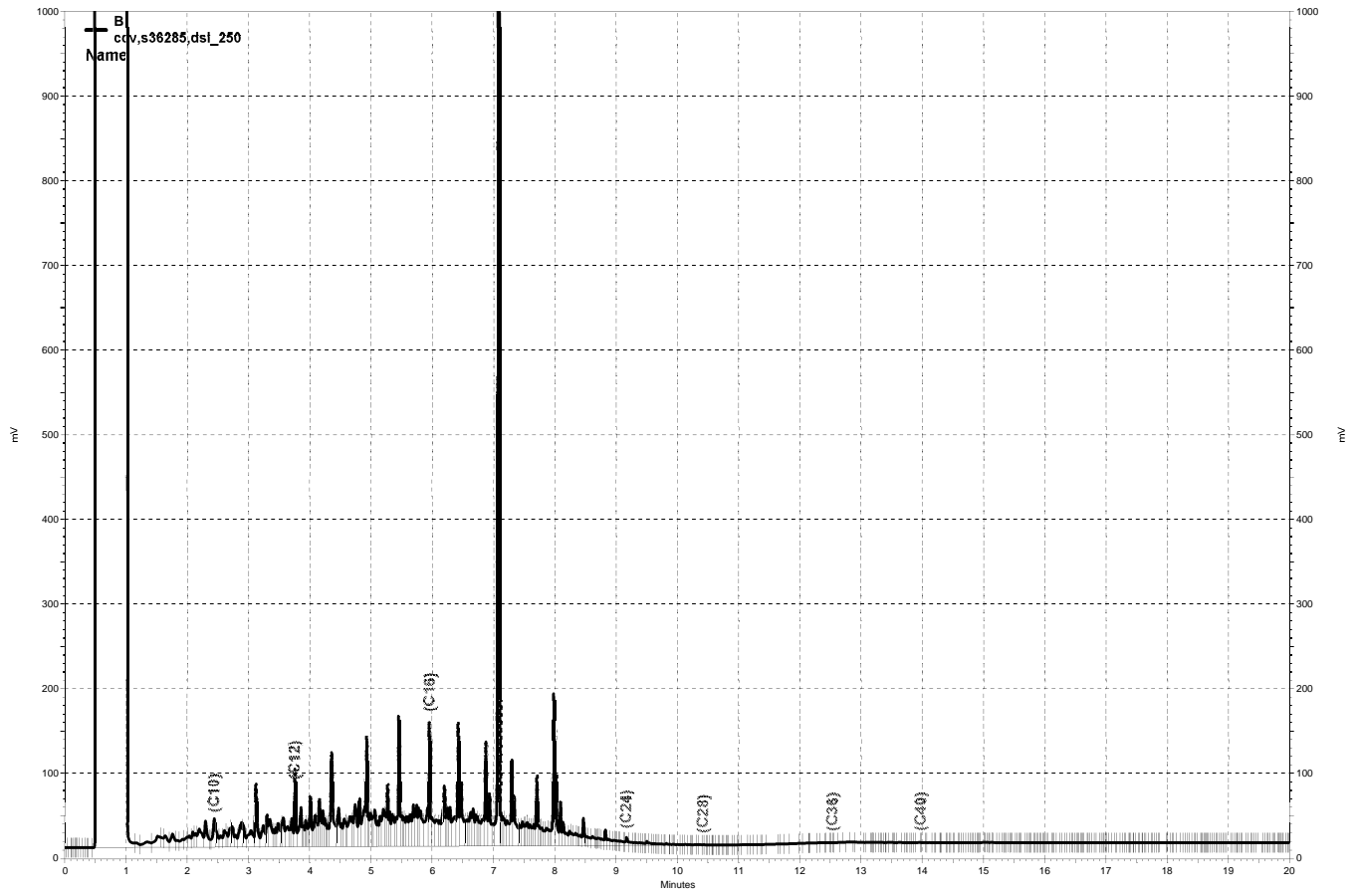
RPD= Relative Percent Difference



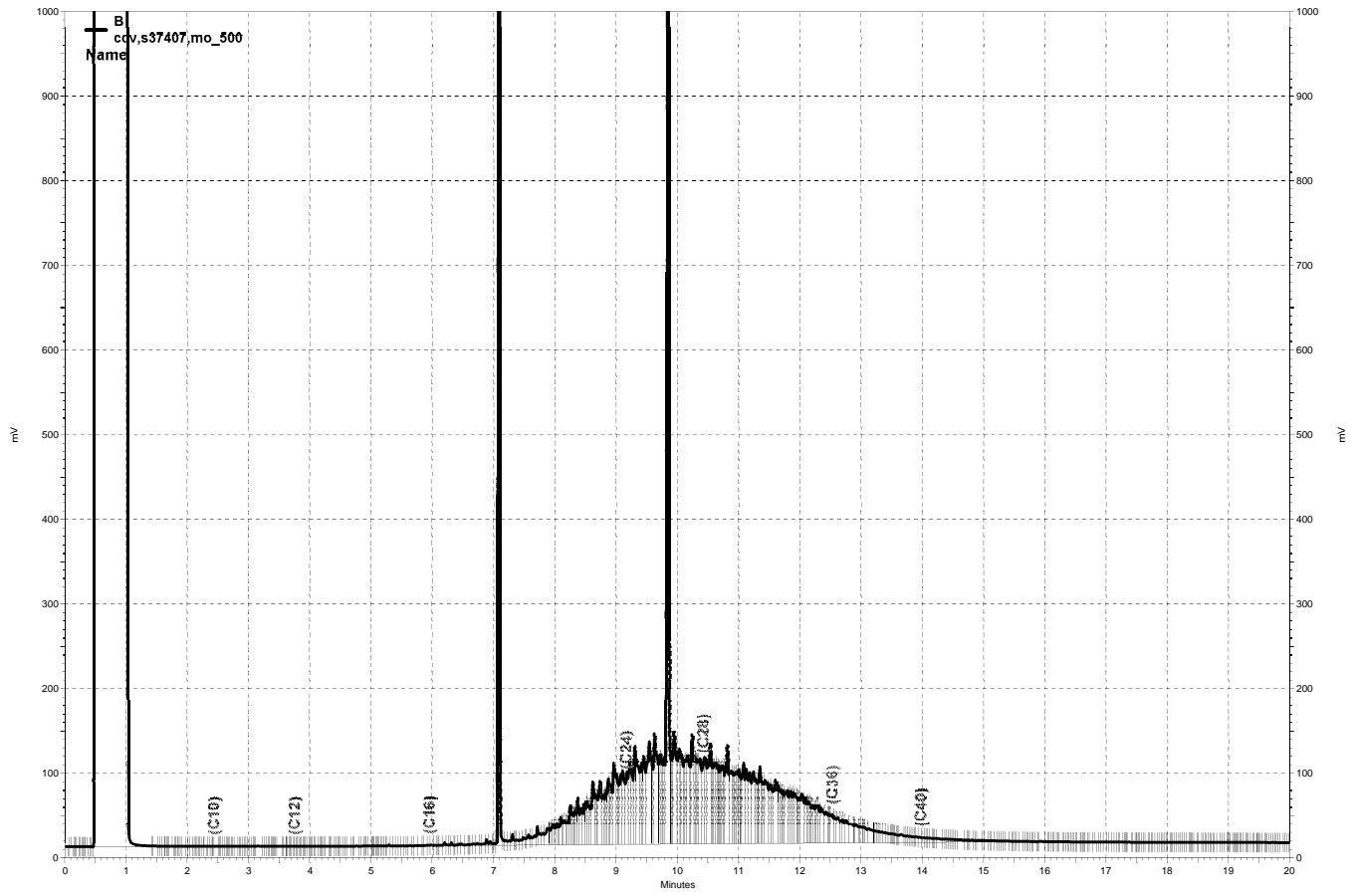
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b071, B



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b063, B



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b060, B



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b065, B

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228112705001
 Units : mg/L

Name : BUNK_078 5 pt
 Date : 19-MAR-2018 18:08
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	078_015	228112705015	BUNK_50	19-MAR-2018 18:08	S35500
L2	078_016	228112705016	BUNK_250	19-MAR-2018 18:37	S35501
L3	078_017	228112705017	BUNK_500	19-MAR-2018 19:06	S35502
L4	078_018	228112705018	BUNK_1250	19-MAR-2018 19:35	S35503
L5	078_019	228112705019	BUNK_2500	19-MAR-2018 20:04	S35504
L6	078_020	228112705020	BUNK_5000	19-MAR-2018 20:34	S35499

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Bunker C C12-C40	B	16353	20860	21971	17514	21271	21612	AVRG		5.02E-5		19930	12	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Bunker C C12-C40	B	50.000	-18	250.00	5	500.00	10	1250.0	-12	2500.0	7	5000.0	8

WA1 03/20/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 03/20/18

Reviewer: EAH

Date: 03/20/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301076 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228263897001
 Units : mg/L

Name : HEXOTP_183
 Date : 03-JUL-2018 00:37
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	183_033	228263897033	HEX OTP_2.5	03-JUL-2018 00:37	S36499 (2X)
L2	183_034	228263897034	HEX OTP_5	03-JUL-2018 01:06	S36499
L3	183_035	228263897035	HEX OTP_10	03-JUL-2018 01:34	S36500
L4	183_036	228263897036	HEX OTP_25	03-JUL-2018 02:03	S36501
L5	183_037	228263897037	HEX OTP_50	03-JUL-2018 02:31	S36502
L6	183_038	228263897038	HEX OTP_100	03-JUL-2018 03:00	S36503

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	56266	54969	58095	56045	53979	52579	AVRG		1.81E-5		55322	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	2	5.0000	-1	10.000	5	25.000	1	50.000	-2	100.00	-5

WA1 07/03/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/03/18

Reviewer: TKM

Date: 07/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Water: EPA 8015B

Inst : GC26A
 Calnum : 868259571004
 Units : mg/L

Name : HEXOTP_180
 Date : 29-JUN-2018 17:57
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	180a014	868259571014	HEXOTP_2.5	29-JUN-2018 17:57	S36499 (2X)
L2	180a015	868259571015	HEXOTP_5	29-JUN-2018 18:25	S36499
L3	180a016	868259571016	HEXOTP_10	29-JUN-2018 18:53	S36500
L4	180a017	868259571017	HEXOTP_25	29-JUN-2018 19:22	S36501
L5	180a018	868259571018	HEXOTP_50	29-JUN-2018 19:50	S36502
L6	180a019	868259571019	HEXOTP_100	29-JUN-2018 20:18	S36503

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	48638	47321	50806	48438	47800	44929	AVRG		2.08E-5		47989	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	1	5.0000	-1	10.000	6	25.000	1	50.000	0	100.00	-6

WA1 07/03/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 07/03/18

Reviewer: TKM

Date: 07/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Water: EPA 8015B

Inst : GC26A
 Calnum : 868259571002
 Units : mg/L

Name : DSL_180
 Date : 29-JUN-2018 21:14
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	180a021	868259571021	DSL_10	29-JUN-2018 21:14	S36610
L2	180a022	868259571022	DSL_100	29-JUN-2018 21:42	S36611
L3	180a023	868259571023	DSL_500	29-JUN-2018 22:11	S36613
L4	180a024	868259571024	DSL_1000	29-JUN-2018 22:39	S36615
L5	180a025	868259571025	DSL_5000	29-JUN-2018 23:07	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	43525	42119	43689	43660	41648	AVRG		2.33E-5		42928	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	1	100.00	-2	500.00	2	1000.0	2	5000.0	-3

CB1 07/02/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 07/02/18

Reviewer: TKM

Date: 07/02/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301076 GCSV Water
EPA 8015B

Inst : GC26A
Calnum : 868259571002

Name : DSL_180
Cal Date : 29-JUN-2018

ICV 868259571027 (180a027 30-JUN-2018) stds: S35844

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	471.6	mg/L	-6	15	

Analyst: CB1

Date: 07/02/18

Reviewer: TKM

Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
 Seqnum : 228263897060 File : 183_060 Time : 03-JUL-2018 18:15
 Standards: S36285

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	45087	250.0	250.5	mg/L	0	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	54704	50.00	49.44	mg/L	-1	15	

WA1 07/03/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/03/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 228263897063 File : 183_063 Time : 03-JUL-2018 19:40
 Standards: S36287

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	228112705001	19-MAR-2018	19930	22327	500.0	560.1	mg/L	12	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	56232	50.00	50.82	mg/L	2	15	

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897080 File : 183_080 Time : 04-JUL-2018 03:46
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	31838	500.0	535.8	mg/L	7	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	53939	50.00	48.75	mg/L	-3	15	

CB1 07/05/18 : ccv,s37407,mo_500

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 228263897081 File : 183_081 Time : 04-JUL-2018 04:15
 Standards: S36287

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	228112705001	19-MAR-2018	19930	22184	500.0	556.5	mg/L	11	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	55339	50.00	50.01	mg/L	0	15	

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
 Seqnum : 868265382003 File : 184a003 Time : 03-JUL-2018 07:58
 Standards: S37195

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868259571002	29-JUN-2018	42928	42942	500.0	500.2	mg/L	0	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	49469	50.00	51.54	mg/L	3	15	

WA1 07/03/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/03/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_250 IDF : 1.0
 Seqnum : 868265382017 File : 184a017 Time : 03-JUL-2018 17:05
 Standards: S36285

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868259571002	29-JUN-2018	42928	41327	250.0	240.7	mg/L	-4	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	48650	50.00	50.69	mg/L	1	15	

WA1 07/03/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/03/18 Reviewer: EAH Date: 07/05/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228112705

Instrument : GC14B
 Method : EPA 8015B

Begun : 03/19/18 06:25
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	078_001	IB				03/19/18 06:25	1.0	
002	078_002	IB				03/19/18 06:53	1.0	
003	078_003	X	CMARKER			03/19/18 07:21	1.0	1
004	078_004	CCV	DSL_500			03/19/18 07:50	1.0	2
005	078_005	CCV	MO_500			03/19/18 08:18	1.0	3
006	078_006	CCV	BUNK_500			03/19/18 08:47	1.0	4
007	078_007	IB				03/19/18 13:42	1.0	
008	078_008	X	CMARKER			03/19/18 14:11	1.0	1
009	078_009	XCCV	DSL_500			03/19/18 14:40	1.0	2
010	078_010	XCCV	MO_500			03/19/18 15:09	1.0	3
011	078_011	CCV	DSL_500			03/19/18 16:08	1.0	2
012	078_012	CCV	MO_500			03/19/18 16:37	1.0	3
013	078_013	IB				03/19/18 17:10	1.0	
014	078_014	IB	CALIB			03/19/18 17:39	1.0	
015	078_015	ICAL	BUNK_50			03/19/18 18:08	1.0	5
016	078_016	ICAL	BUNK_250			03/19/18 18:37	1.0	6
017	078_017	ICAL	BUNK_500			03/19/18 19:06	1.0	7
018	078_018	ICAL	BUNK_1250			03/19/18 19:35	1.0	8
019	078_019	ICAL	BUNK_2500			03/19/18 20:04	1.0	9
020	078_020	ICAL	BUNK_5000			03/19/18 20:34	1.0	10
021	078_021	IB	CALIB			03/19/18 21:03	1.0	
022	078_022	CMARKER	C8-C50			03/19/18 21:32	1.0	1
023	078_023	IB	CALIB			03/19/18 22:01	1.0	

CB1 03/19/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 7.

WA1 03/19/18 : X out CCV at position 9 and 10 due to lose glass connector.

WA1 03/20/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 8 through 23.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	113_001	IB					04/23/18 06:10	1.0	
002	113_002	IB					04/23/18 06:38	1.0	
003	113_003	X	CMARKER				04/23/18 07:06	1.0	1
004	113_004	CCV	DSL_500				04/23/18 07:34	1.0	2
005	113_005	CCV	MO_500				04/23/18 08:35	1.0	3
006	113_006	CCV	DSL_500				04/23/18 09:02	1.0	2
007	113_007	IB					04/23/18 12:40	1.0	
008	113_008	X	CMARKER				04/23/18 13:07	1.0	1
009	113_009	CCV	DSL_500				04/23/18 13:35	1.0	2
010	113_010	CCV	MO_500				04/23/18 14:03	1.0	3
012	113_012	IB					04/23/18 15:27	1.0	
013	113_013	SAMPLE	299115-001		Soil	258772	04/23/18 16:57	1.0	
014	113_014	SAMPLE	299115-002		Soil	258772	04/23/18 17:25	1.0	
015	113_015	SAMPLE	299115-003		Soil	258772	04/23/18 17:53	1.0	
016	113_016	SAMPLE	299115-004		Soil	258772	04/23/18 18:20	1.0	
017	113_017	SAMPLE	299056-001		Soil	258772	04/23/18 18:48	2.0	
018	113_018	IB					04/23/18 19:16	1.0	
019	113_019	SAMPLE	299117-001		Soil	258772	04/23/18 19:44	1.0	
020	113_020	SAMPLE	299117-002		Soil	258772	04/23/18 20:11	1.0	
021	113_021	MS	QC929007	S	Soil	258726	04/23/18 20:39	1.0	
022	113_022	MSD	QC929008	S	Soil	258726	04/23/18 21:07	1.0	
023	113_023	IB					04/23/18 21:35	1.0	
024	113_024	CCV	DSL_250				04/23/18 22:03	1.0	4
025	113_025	CCV	MO_500				04/23/18 22:31	1.0	3
026	113_026	X	CMARKER				04/23/18 22:59	1.0	1
027	113_027	BLANK	QC929171		Soil	258772	04/23/18 23:27	1.0	
028	113_028	LCS	QC929172		Soil	258772	04/23/18 23:55	1.0	
029	113_029	MSS	299056-002		Soil	258772	04/24/18 00:23	1.0	
030	113_030	MS	QC929173		Soil	258772	04/24/18 00:51	1.0	
031	113_031	MSD	QC929174		Soil	258772	04/24/18 01:19	1.0	
032	113_032	SAMPLE	299118-001		Soil	258772	04/24/18 01:47	1.0	
033	113_033	SAMPLE	299119-001		Soil	258772	04/24/18 02:14	1.0	
034	113_034	IB					04/24/18 02:42	1.0	
035	113_035	SAMPLE	299126-001		Soil	258772	04/24/18 03:10	1.0	
036	113_036	SAMPLE	299126-002		Soil	258772	04/24/18 03:38	1.0	
037	113_037	SAMPLE	299116-001		Soil	258772	04/24/18 04:06	1.0	
038	113_038	SAMPLE	299116-002		Soil	258772	04/24/18 04:34	1.0	
039	113_039	IB					04/24/18 05:02	1.0	
040	113_040	CCV	DSL_500				04/24/18 05:30	1.0	2
041	113_041	CCV	MO_500				04/24/18 05:58	1.0	3
042	113_042	X	CMARKER				04/24/18 06:26	1.0	1
043	113_043	SAMPLE	299056-005		Soil	258786	04/24/18 07:10	1.0	
044	113_044	SAMPLE	299056-006		Soil	258786	04/24/18 07:38	1.0	
045	113_045	SAMPLE	299055-001		Soil	258786	04/24/18 08:10	1.0	
046	113_046	SAMPLE	299055-002		Soil	258786	04/24/18 08:38	1.0	
047	113_047	SAMPLE	299055-004		Soil	258786	04/24/18 09:06	1.0	
048	113_048	SAMPLE	299055-005		Soil	258786	04/24/18 09:34	1.0	
049	113_049	SAMPLE	299055-006		Soil	258786	04/24/18 10:02	1.0	
050	113_050	SAMPLE	299055-007		Soil	258786	04/24/18 10:30	1.0	
051	113_051	CCV	DSL_1000				04/24/18 10:58	1.0	5
052	113_052	CCV	MO_500				04/24/18 11:26	1.0	3
053	113_053	X	CMARKER				04/24/18 11:54	1.0	1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B Begun : 04/23/18 06:10
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	113_054	CCV	DSL_1000				04/24/18 12:22	1.0	5
055	113_055	CCV	DSL_1000				04/24/18 12:50	1.0	5
056	113_056	IB					04/24/18 16:52	1.0	
057	113_057	IB	CALIB				04/24/18 17:20	1.0	
058	113_058	ICAL	HEX OTP_5				04/24/18 17:47	1.0	6
059	113_059	ICAL	HEX OTP_10				04/24/18 18:15	1.0	7
060	113_060	ICAL	HEX OTP_25				04/24/18 18:43	1.0	8
061	113_061	ICAL	HEX OTP_50				04/24/18 19:10	1.0	9
062	113_062	ICAL	HEX OTP_100				04/24/18 19:38	1.0	10
063	113_063	ICAL	HEX OTP_200				04/24/18 20:06	1.0	11
064	113_064	IB	CALIB				04/24/18 20:33	1.0	
065	113_065	ICAL	DSL_10				04/24/18 21:01	1.0	12
066	113_066	ICAL	DSL_100				04/24/18 21:29	1.0	13
067	113_067	ICAL	DSL_500				04/24/18 21:57	1.0	14
068	113_068	ICAL	DSL_1000				04/24/18 22:25	1.0	15
069	113_069	ICAL	DSL_5000				04/24/18 22:53	1.0	16
070	113_070	IB	CALIB				04/24/18 23:21	1.0	
071	113_071	ICV	DSL_500				04/24/18 23:49	1.0	17
072	113_072	IB	CALIB				04/25/18 00:17	1.0	
073	113_073	ICAL	MO_50				04/25/18 00:45	1.0	18
074	113_074	ICAL	MO_250				04/25/18 01:13	1.0	19
075	113_075	ICAL	MO_500				04/25/18 01:41	1.0	20
076	113_076	ICAL	MO_1000				04/25/18 02:09	1.0	21
077	113_077	ICAL	MO_2500				04/25/18 02:37	1.0	22
078	113_078	ICAL	MO_5000				04/25/18 03:05	1.0	22
079	113_079	IB	CALIB				04/25/18 03:33	1.0	
080	113_080	CMARKER	C8-C50				04/25/18 04:01	1.0	23
081	113_081	IB	CALIB				04/25/18 04:29	1.0	

CB1 04/25/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 81.

CB1 04/23/18 : Hardware failure (bent syringe) for run at position 4, RR DSL opening CCV.

WA1 04/23/18 : Position 11 was mis-injected.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S35149 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S36610 13=S36611 14=S36613 15=S36615 16=S36609 17=S35164 18=S34924 19=S34925 20=S34926 21=S34927 22=S34923
 23=S35483

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228223554

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/04/18 05:54
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	155_001	IB				06/04/18 05:54	1.0	
002	155_002	CCV	DSL_500			06/04/18 06:22	1.0	1
003	155_003	CCV	MO_500			06/04/18 06:51	1.0	2
004	155_004	X	CMARKER			06/04/18 07:19	1.0	3
005	155_005	CCV	JET_250			06/04/18 08:37	1.0	4
006	155_006	BLANK	QC934363	Water	260120	06/04/18 11:26	1.0	
007	155_007	BS	QC934364	Water	260120	06/04/18 11:54	1.0	
008	155_008	BSD	QC934365	Water	260120	06/04/18 12:23	1.0	
009	155_009	SAMPLE	300258-001	Water	260120	06/04/18 12:51	1.0	
010	155_010	CCV	DSL_1000			06/04/18 13:19	1.0	5
011	155_011	CCV	MO_500			06/04/18 14:54	1.0	2
012	155_012	CCV	JET_250			06/04/18 15:23	1.0	4
013	155_013	X	CMARKER			06/04/18 15:51	1.0	3
014	155_014	IB				06/04/18 16:20	1.0	
015	155_015	IB	CALIB			06/04/18 16:48	1.0	
016	155_016	ICAL	MO_50			06/04/18 17:17	1.0	6
017	155_017	ICAL	MO_250			06/04/18 17:45	1.0	7
018	155_018	ICAL	MO_500			06/04/18 18:14	1.0	8
019	155_019	ICAL	MO_1000			06/04/18 18:43	1.0	9
020	155_020	ICAL	MO_2500			06/04/18 19:11	1.0	10
021	155_021	ICAL	MO_5000			06/04/18 19:39	1.0	10
022	155_022	IB	CALIB			06/04/18 20:08	1.0	
023	155_023	CMARKER	C8-C40			06/04/18 20:36	1.0	3
024	155_024	IB	CALIB			06/04/18 21:04	1.0	

CB1 06/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	183_001	IB					07/02/18 06:17	1.0	
002	183_002	IB					07/02/18 06:46	1.0	
003	183_003	X	CMARKER				07/02/18 07:14	1.0	1
004	183_004	CCV	DSL_500				07/02/18 07:43	1.0	2
005	183_005	CCV	MO_500				07/02/18 08:11	1.0	3
006	183_006	BLANK	QC937860		Water	260995	07/02/18 10:57	1.0	
007	183_007	LCS	QC937861		Water	260995	07/02/18 11:26	1.0	
008	183_008	MSS	301108-001		Water	260995	07/02/18 11:54	1.0	
009	183_009	MS	QC937862		Water	260995	07/02/18 12:23	1.0	
010	183_010	MSD	QC937863		Water	260995	07/02/18 12:51	1.0	
011	183_011	SAMPLE	301135-001		Water	260995	07/02/18 13:20	1.0	
012	183_012	CCV	DSL_1000				07/02/18 13:54	1.0	4
013	183_013	CCV	MO_500				07/02/18 14:22	1.0	3
014	183_014	X	CMARKER				07/02/18 14:51	1.0	1
015	183_015	SAMPLE	301076-001		Soil	261040	07/02/18 16:07	1.0	
016	183_016	SAMPLE	301076-002		Soil	261040	07/02/18 16:36	1.0	
017	183_017	SAMPLE	301076-003		Soil	261040	07/02/18 17:04	1.0	
018	183_018	SAMPLE	301076-004		Soil	261040	07/02/18 17:32	1.0	
019	183_019	SAMPLE	301076-005		Soil	261040	07/02/18 18:00	1.0	
020	183_020	SAMPLE	301106-002		Soil	261040	07/02/18 18:29	2.0	
021	183_021	IB					07/02/18 18:57	1.0	
022	183_022	BLANK	QC938133		Soil	261063	07/02/18 19:25	1.0	
023	183_023	LCS	QC938134		Soil	261063	07/02/18 19:53	1.0	
024	183_024	MSS	301193-001		Soil	261063	07/02/18 20:21	3.0	
025	183_025	MS	QC938135		Soil	261063	07/02/18 20:49	3.0	
026	183_026	MSD	QC938136		Soil	261063	07/02/18 21:18	3.0	
027	183_027	IB					07/02/18 21:46	1.0	
028	183_028	SAMPLE	301106-001		Soil	261040	07/02/18 22:15	1.0	
029	183_029	CCV	DSL_500				07/02/18 22:43	1.0	2
030	183_030	CCV	MO_500				07/02/18 23:12	1.0	3
031	183_031	X	CMARKER				07/02/18 23:41	1.0	1
032	183_032	IB	CALIB				07/03/18 00:09	1.0	
033	183_033	ICAL	HEX OTP_2.5				07/03/18 00:37	1.0	5
034	183_034	ICAL	HEX OTP_5				07/03/18 01:06	1.0	5
035	183_035	ICAL	HEX OTP_10				07/03/18 01:34	1.0	6
036	183_036	ICAL	HEX OTP_25				07/03/18 02:03	1.0	7
037	183_037	ICAL	HEX OTP_50				07/03/18 02:31	1.0	8
038	183_038	ICAL	HEX OTP_100				07/03/18 03:00	1.0	9
039	183_039	IB	CALIB				07/03/18 03:28	1.0	
040	183_040	CMARKER	C8-C40				07/03/18 03:57	1.0	1
041	183_041	IB	CALIB				07/03/18 04:25	1.0	
042	183_042	IB					07/03/18 07:02	1.0	
043	183_043	X	CMARKER				07/03/18 07:30	1.0	1
044	183_044	CCV	DSL_500				07/03/18 07:59	1.0	2
045	183_045	CCV	MO_500				07/03/18 08:27	1.0	3
046	183_046	BLANK	QC938045		Soil	261040	07/03/18 11:14	1.0	
047	183_047	LCS	QC938046		Soil	261040	07/03/18 11:42	1.0	
048	183_048	LCS	QC938165		Soil	261072	07/03/18 12:10	1.0	
049	183_049	BLANK	QC938164		Soil	261072	07/03/18 12:38	1.0	
050	183_050	SAMPLE	301076-015		Soil	261063	07/03/18 13:07	1.0	
051	183_051	SAMPLE	301076-016		Soil	261063	07/03/18 13:35	1.0	
052	183_052	SAMPLE	301076-017		Soil	261063	07/03/18 14:03	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	183_053	SAMPLE	301076-014		Soil	261063	07/03/18 14:32	1.0		
054	183_054	SAMPLE	301070-001		Soil	261040	07/03/18 15:00	3.0		
055	183_055	SAMPLE	301124-001		Soil	261072	07/03/18 15:29	10.0		
056	183_056	IB					07/03/18 15:57	1.0		
057	183_057	MSS	301170-003		Soil	261072	07/03/18 16:25	1.0		
058	183_058	MS	QC938166		Soil	261072	07/03/18 16:54	1.0		
059	183_059	MSD	QC938167		Soil	261072	07/03/18 17:22	1.0		
060	183_060	CCV	DSL_250				07/03/18 18:15	1.0	10	
061	183_061	XCCV	MO_500				07/03/18 18:44	1.0	3	
062	183_062	X	CMARKER				07/03/18 19:12	1.0	1	
063	183_063	CCV	BUNK_500				07/03/18 19:40	1.0	11	
064	183_064	CCV	MO_500				07/03/18 20:09	1.0	3	
065	183_065	CCV	MO_500				07/03/18 20:37	1.0	3	
066	183_066	BLANK	QC938088		Water	261052	07/03/18 21:05	1.0		
067	183_067	BLANK	QC938045	S	Soil	261040	07/03/18 21:34	1.0		
068	183_068	LCS	QC938046	S	Soil	261040	07/03/18 22:02	1.0		
069	183_069	SAMPLE	301143-001	S	Soil	261040	07/03/18 22:31	1.0		
070	183_070	IB					07/03/18 22:59	1.0		
071	183_071	SAMPLE	301076-025		Water	261052	07/03/18 23:28	1.0		
072	183_072	SAMPLE	301189-001		Water	261052	07/03/18 23:57	1.0		
073	183_073	SAMPLE	301189-002		Water	261052	07/04/18 00:26	1.0		
074	183_074	SAMPLE	301189-003		Water	261052	07/04/18 00:54	1.0		
075	183_075	SAMPLE	301170-001		Soil	261072	07/04/18 01:23	1.0		
076	183_076	SAMPLE	301170-002		Soil	261072	07/04/18 01:52	1.0		
077	183_077	SAMPLE	301213-001		Soil	261040	07/04/18 02:20	1.0		
078	183_078	SAMPLE	301111-001		Water	261052	07/04/18 02:49	2.0		
079	183_079	CCV	DSL_500				07/04/18 03:18	1.0	2	
080	183_080	CCV	MO_500				07/04/18 03:46	1.0	3	
081	183_081	CCV	BUNK_500				07/04/18 04:15	1.0	11	
082	183_082	X	CMARKER				07/04/18 04:44	1.0	1	
083	183_083	SAMPLE	301104-001		Soil	261072	07/04/18 05:12	1.0		
084	183_084	SAMPLE	301104-002		Soil	261072	07/04/18 05:41	1.0		
085	183_085	SAMPLE	301104-003		Soil	261072	07/04/18 06:10	1.0		
086	183_086	SAMPLE	301104-004		Soil	261072	07/04/18 06:38	1.0		
087	183_087	SAMPLE	301176-001		Soil	261040	07/04/18 07:07	10.0		
088	183_088	IB					07/04/18 07:35	1.0		
089	183_089	SAMPLE	301076-006		Soil	261063	07/04/18 08:04	1.0		
090	183_090	SAMPLE	301076-007		Soil	261063	07/04/18 08:32	1.0		
091	183_091	SAMPLE	301076-008		Soil	261063	07/04/18 09:01	1.0		
092	183_092	SAMPLE	301076-009		Soil	261063	07/04/18 09:29	1.0		
093	183_093	SAMPLE	301076-010		Soil	261063	07/04/18 09:58	1.0		
094	183_094	SAMPLE	301076-011		Soil	261063	07/04/18 10:26	1.0		
095	183_095	SAMPLE	301076-012		Soil	261063	07/04/18 10:55	1.0		
096	183_096	SAMPLE	301076-013		Soil	261063	07/04/18 11:24	1.0		
097	183_097	CCV	DSL_1000				07/04/18 11:52	1.0	4	
098	183_098	CCV	MO_500				07/04/18 12:21	1.0	3	
099	183_099	X	CMARKER				07/04/18 12:49	1.0	1	
100	183_100	BLANK	QC938316		Soil	261112	07/04/18 13:17	1.0		
101	183_101	LCS	QC938317		Soil	261112	07/04/18 13:45	1.0		
102	183_102	MSS	301147-003		Soil	261112	07/04/18 14:13	3.0		11:BUNKC:12-40=27000
103	183_103	MS	QC938318		Soil	261112	07/04/18 14:42	3.0		8:BUNKC:12-40=19000
104	183_104	MSD	QC938319		Soil	261112	07/04/18 15:10	3.0		11:BUNKC:12-40=22000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B Begun : 07/02/18 06:17
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	183_105	SAMPLE	301147-004		Soil	261112	07/04/18 15:38	3.0		11:BUNKC:12-40=20000
106	183_106	IB					07/04/18 16:06	1.0		
107	183_107	SAMPLE	301147-005		Soil	261112	07/04/18 16:34	1.0		
108	183_108	SAMPLE	301147-006		Soil	261112	07/04/18 17:02	1.0		
109	183_109	SAMPLE	301147-007		Soil	261112	07/04/18 17:30	1.0		
110	183_110	SAMPLE	301148-001		Soil	261112	07/04/18 17:59	1.0		
111	183_111	MSS	301148-002		Soil	261112	07/04/18 18:27	1.0		
112	183_112	SAMPLE	301148-003		Soil	261112	07/04/18 18:55	1.0		
113	183_113	CCV	DSL_500				07/04/18 19:23	1.0	2	
114	183_114	CCV	MO_500				07/04/18 19:51	1.0	3	
115	183_115	X	CMARKER				07/04/18 20:19	1.0	1	
116	183_116	SAMPLE	301076-018		Soil	261063	07/04/18 20:48	1.0		
117	183_117	SAMPLE	301076-019		Soil	261063	07/04/18 21:16	1.0		
118	183_118	SAMPLE	301076-020		Soil	261063	07/04/18 21:45	1.0		
119	183_119	SAMPLE	301076-021		Soil	261063	07/04/18 22:13	1.0		
120	183_120	SAMPLE	301176-015		Soil	261040	07/04/18 22:42	10.0		2:BUNKC:12-40=5500
121	183_121	IB					07/04/18 23:10	1.0		
122	183_122	SAMPLE	301076-022		Soil	261063	07/04/18 23:38	1.0		
123	183_123	SAMPLE	301076-023		Soil	261063	07/05/18 00:07	1.0		
124	183_124	SAMPLE	301176-006		Soil	261040	07/05/18 00:35	100.0		
125	183_125	IB					07/05/18 01:04	1.0		
126	183_126	IB					07/05/18 01:32	1.0		
127	183_127	SAMPLE	301176-014		Soil	261040	07/05/18 02:00	10.0		2:BUNKC:12-40=6200
128	183_128	IB					07/05/18 02:29	1.0		
129	183_129	SAMPLE	301229-001		Soil	261112	07/05/18 02:57	1.0		
130	183_130	CCV	DSL_1000				07/05/18 03:26	1.0	4	
131	183_131	CCV	MO_500				07/05/18 03:54	1.0	3	
132	183_132	X	CMARKER				07/05/18 04:23	1.0	1	

CB1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 5.

WA1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 6 through 14.

WA1 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 15 through 62.

CB1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 63 through 132.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868259571

Instrument : GC26A Begun : 06/29/18 06:11
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	180a001	IB				06/29/18 06:11	1.0	
002	180a002	X	CMARKER			06/29/18 06:39	1.0	1
003	180a003	CCV	DSL_500			06/29/18 07:07	1.0	2
004	180a004	CCV	MO_500			06/29/18 07:36	1.0	3
005	180a005	SAMPLE	301115-001	Water	260953	06/29/18 10:51	1.0	
006	180a006	BLANK	QC937707	Water	260953	06/29/18 11:19	1.0	
007	180a007	BLANK	QC937692	Miscell.	260949	06/29/18 11:49	1.0	
008	180a008	BS	QC937693	Miscell.	260949	06/29/18 12:17	1.0	
009	180a009	BSD	QC937694	Miscell.	260949	06/29/18 12:45	1.0	
010	180a010	CCV	DSL_1000			06/29/18 13:14	1.0	4
011	180a011	CCV	MO_500			06/29/18 13:43	1.0	3
012	180a012	X	CMARKER			06/29/18 14:11	1.0	1
013	180a013	IB	CALIB			06/29/18 17:29	1.0	
014	180a014	ICAL	HEXOTP_2.5			06/29/18 17:57	1.0	5
015	180a015	ICAL	HEXOTP_5			06/29/18 18:25	1.0	5
016	180a016	ICAL	HEXOTP_10			06/29/18 18:53	1.0	6
017	180a017	ICAL	HEXOTP_25			06/29/18 19:22	1.0	7
018	180a018	ICAL	HEXOTP_50			06/29/18 19:50	1.0	8
019	180a019	ICAL	HEXOTP_100			06/29/18 20:18	1.0	9
020	180a020	IB	CALIB			06/29/18 20:46	1.0	
021	180a021	ICAL	DSL_10			06/29/18 21:14	1.0	10
022	180a022	ICAL	DSL_100			06/29/18 21:42	1.0	11
023	180a023	ICAL	DSL_500			06/29/18 22:11	1.0	12
024	180a024	ICAL	DSL_1000			06/29/18 22:39	1.0	13
025	180a025	ICAL	DSL_5000			06/29/18 23:07	1.0	14
026	180a026	IB	CALIB			06/29/18 23:35	1.0	
027	180a027	ICV	DSL_500			06/30/18 00:04	1.0	15
028	180a028	IB	CALIB			06/30/18 00:32	1.0	
029	180a029	ICAL	MO_50			06/30/18 01:00	1.0	16
030	180a030	ICAL	MO_250			06/30/18 01:27	1.0	17
031	180a031	ICAL	MO_500			06/30/18 01:56	1.0	18
032	180a032	ICAL	MO_1000			06/30/18 02:24	1.0	19
033	180a033	ICAL	MO_2500			06/30/18 02:52	1.0	20
034	180a034	ICAL	MO_5000			06/30/18 03:20	1.0	20
035	180a035	IB	CALIB			06/30/18 03:48	1.0	
036	180a036	ICV	MO_500			06/30/18 04:15	1.0	21
037	180a037	IB	CALIB			06/30/18 04:43	1.0	
038	180a038	CMARKER	C8-C40			06/30/18 05:11	1.0	1
039	180a039	IB	CALIB			06/30/18 05:39	1.0	

CB1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 39.

Standards used: 1=S36439 2=S37195 3=S36833 4=S36227 5=S36499 6=S36500 7=S36501 8=S36502 9=S36503 10=S36610 11=S36611
 12=S36613 13=S36615 14=S36609 15=S35844 16=S36946 17=S36948 18=S36949 19=S36951 20=S36926 21=S37407

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868265382

Instrument : GC26A Begun : 07/03/18 07:02
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	184a001	IB				07/03/18 07:02	1.0	
002	184a002	X	CMARKER			07/03/18 07:30	1.0	1
003	184a003	CCV	DSL_500			07/03/18 07:58	1.0	2
004	184a004	CCV	MO_500			07/03/18 08:26	1.0	3
005	184a005	MSS	300950-002	Soil	261040	07/03/18 11:26	1.0	
006	184a006	MS	QC938047	Soil	261040	07/03/18 11:54	1.0	
007	184a007	MSD	QC938048	Soil	261040	07/03/18 12:22	1.0	
008	184a008	SAMPLE	300950-001	Soil	261040	07/03/18 12:50	2.0	
009	184a009	SAMPLE	300950-003	Soil	261040	07/03/18 13:18	1.0	
010	184a010	SAMPLE	300950-004	Soil	261040	07/03/18 13:46	1.0	
011	184a011	SAMPLE	300950-005	Soil	261040	07/03/18 14:15	1.0	
012	184a012	SAMPLE	300950-006	Soil	261040	07/03/18 14:43	1.0	
013	184a013	SAMPLE	301193-003	Soil	261063	07/03/18 15:11	1.0	3:BUNKC:10-40=7900
014	184a014	IB				07/03/18 15:40	1.0	
015	184a015	BS	QC938089	Water	261052	07/03/18 16:08	1.0	
016	184a016	BSD	QC938090	Water	261052	07/03/18 16:36	1.0	
017	184a017	CCV	DSL_250			07/03/18 17:05	1.0	4
018	184a018	X	CMARKER			07/03/18 17:33	1.0	1
019	184a019	IB				07/03/18 18:01	1.0	
020	184a020	IB				07/03/18 18:29	1.0	
021	184a021	IB				07/03/18 18:57	1.0	
022	184a022	IB				07/03/18 19:26	1.0	
023	184a023	IB				07/03/18 19:54	1.0	
024	184a024	IB	CALIB			07/03/18 20:22	1.0	
025	184a025	ICAL	MO_50			07/03/18 20:50	1.0	5
026	184a026	ICAL	MO_250			07/03/18 21:18	1.0	6
027	184a027	ICAL	MO_500			07/03/18 21:47	1.0	7
028	184a028	ICAL	MO_1000			07/03/18 22:15	1.0	8
029	184a029	ICAL	MO_2500			07/03/18 22:44	1.0	9
030	184a030	ICAL	MO_5000			07/03/18 23:12	1.0	9
031	184a031	IB	CALIB			07/03/18 23:40	1.0	
032	184a032	ICV	MO_500			07/04/18 00:09	1.0	10
033	184a033	IB	CALIB			07/04/18 00:37	1.0	
034	184a034	CMARKER	C8-C40			07/04/18 01:05	1.0	1
035	184a035	IB	CALIB			07/04/18 01:33	1.0	

WA1 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 18.

CB1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 19 through 35.

Standards used: 1=S36439 2=S37195 3=S36833 4=S36285 5=S36946 6=S36948 7=S36949 8=S36951 9=S36926 10=S37407

SAMPLE PREPARATION SUMMARY

Batch # : 261052
 Started By : ECI
 Method : 3520C
 Spike #1 ID : S37162

Prep Date : 02-JUL-2018 14:00
 SOP Version : TEH_3520_rv16
 Spike #2 ID : S37163

Analysis : TEH
 Finished By : JCT
 Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
301076-025		Water	500	2.5	1	0.005	7	.5				TEHM	
301111-001		Water	500	2.5	1	0.005	8	.5				TEHM	
301189-001		Water	1020	5	1	0.004902	7	1				TEHM	
301189-002		Water	1000	5	1	0.005	7	1				TEHM	
301189-003		Water	1050	5	1	0.004762	7	1				TEHM	
QC938088	BLANK	Water	1000	5	1	0.005		1					
QC938089	BS	Water	1000	5	1	0.005		1	1				
QC938090	BSD	Water	1000	5	1	0.005		1	1				

WA1 07/05/18 : Matrix spikes were not performed for this analysis in batch 261052 due to insufficient sample amount.

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

TEH (8015) Water Prep Log

version 201801

Enthlapy Analytical LLC - Berkeley

LIMS Batch No: 261052
 LIMS Analysis: TEHM
 Date Extracted: 7/2/18

Extraction Method:
 EPA 3520c cont. L/L

Page 28

BK 4262

Cleanup Method (if needed):
 EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
301076-025	D	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>		
301111-001	H	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> 8	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>		
301189-001	J	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1020	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		
5	2	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		
	3	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1050	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		
	K	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> NA	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		
BS	89	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> NA	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		
BSD	90	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> NA	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		
10		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
15		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
20		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		

BS/BSO only (MS/MSD not included) due to: insufficient volume, or other (reason)

Checked pH with pH strips - lot # 108D15261 Date/Initials 7/2/18
0.5 / 1.0 mL of TEH_SURR was added to all samples
1.0 mL of TEH_SP was added to all spikes
 3520c: Samples were continually extracted about 450 mL of CH₂Cl₂
 Extraction Start Time: 1400
 Extraction End Time: 08:05
 3510c: Samples were extracted 3 times with 60 mL of CH₂Cl₂
 Extracts filtered through baked, CH₂Cl₂-rinsed granular Na₂SO₄
 Concentrated to final volume in boiling water bath
 Relinquished to TEH Department

[Signature] 7/2/18
 Extraction Chemist Date

Continued from Page 7
 Continued on Page _____

[Signature] 7/3/18
 Reviewed by Date

Laboratory Job Number 301076

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Soil

Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry	Prepared:	07/02/18

Field ID: BR11-1GW02[3] Batch#: 261040
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-001 Analyzed: 07/02/18
 Moisture: 21%

Analyte	Result	RL	MDL
Diesel C10-C24	1.5 Y	1.3	0.39
Motor Oil C24-C36	9.9	6.3	1.9

Surrogate	%REC	Limits
o-Terphenyl	80	59-130

Field ID: BR11-1GW02[5] Batch#: 261040
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-002 Analyzed: 07/02/18
 Moisture: 20%

Analyte	Result	RL	MDL
Diesel C10-C24	2.7 Y	1.3	0.38
Motor Oil C24-C36	22	6.3	1.9

Surrogate	%REC	Limits
o-Terphenyl	81	59-130

Field ID: BR11-1GW02[7] Batch#: 261040
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-003 Analyzed: 07/02/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	2.7 Y	1.2	0.35
Motor Oil C24-C36	4.5 J	5.8	1.7

Surrogate	%REC	Limits
o-Terphenyl	95	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry	Prepared:	07/02/18

Field ID: BR11-1GW02[10] Batch#: 261040
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-004 Analyzed: 07/02/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	0.37 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	92	59-130

Field ID: BR11-1GW02[15] Batch#: 261040
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-005 Analyzed: 07/02/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	0.69 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	92	59-130

Field ID: BR11-1GW02[20] Batch#: 261063
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-006 Analyzed: 07/04/18
 Moisture: 12%

Analyte	Result	RL	MDL
Diesel C10-C24	0.94 J Y	1.1	0.35
Motor Oil C24-C36	3.4 J	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	93	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry	Prepared:	07/02/18

Field ID: BR11-1GW02[25] Batch#: 261063
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-007 Analyzed: 07/04/18
 Moisture: 13%

Analyte	Result	RL	MDL
Diesel C10-C24	1.5 Y	1.2	0.35
Motor Oil C24-C36	5.5 J	5.8	1.7

Surrogate	%REC	Limits
o-Terphenyl	99	59-130

Field ID: BR11-1GW02[30] Batch#: 261063
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-008 Analyzed: 07/04/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	0.49 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	98	59-130

Field ID: BR11-1GW02[35] Batch#: 261063
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-009 Analyzed: 07/04/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	0.76 J Y	1.2	0.36
Motor Oil C24-C36	3.2 J	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	94	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry	Prepared:	07/02/18

Field ID: BR11-1GW02[40] Batch#: 261063
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-010 Analyzed: 07/04/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	0.40 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	96	59-130

Field ID: BR11-1GW02[45] Batch#: 261063
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-011 Analyzed: 07/04/18
 Moisture: 10%

Analyte	Result	RL	MDL
Diesel C10-C24	0.36 J Y	1.1	0.34
Motor Oil C24-C36	ND	5.5	1.7

Surrogate	%REC	Limits
o-Terphenyl	93	59-130

Field ID: BR11-1GW02[50] Batch#: 261063
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-012 Analyzed: 07/04/18
 Moisture: 8%

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.1	0.33
Motor Oil C24-C36	ND	5.4	1.6

Surrogate	%REC	Limits
o-Terphenyl	92	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry	Prepared:	07/02/18

Field ID: DUP06252018-03 Batch#: 261063
 Type: SAMPLE Sampled: 06/25/18
 Lab ID: 301076-013 Analyzed: 07/04/18
 Moisture: 17%

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	84	59-130

Field ID: BR11-1GW03 [3] Batch#: 261063
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-014 Analyzed: 07/03/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	4.9 Y	1.2	0.36
Motor Oil C24-C36	18	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	91	59-130

Field ID: BR11-1GW03 [5] Batch#: 261063
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-015 Analyzed: 07/03/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	1.4 Y	1.2	0.35
Motor Oil C24-C36	4.9 J	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	93	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry	Prepared:	07/02/18

Field ID: BR11-1GW03 [7] Batch#: 261063
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-016 Analyzed: 07/03/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.2	0.36
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	84	59-130

Field ID: BR11-1GW03 [10] Batch#: 261063
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-017 Analyzed: 07/03/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	0.98 J Y	1.2	0.35
Motor Oil C24-C36	2.2 J	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	83	59-130

Field ID: BR11-1GW03 [15] Batch#: 261063
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-018 Analyzed: 07/04/18
 Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	1.2 Y	1.2	0.36
Motor Oil C24-C36	4.3 J	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	85	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry	Prepared:	07/02/18

Field ID: BR11-1GW03 [20] Batch#: 261063
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-019 Analyzed: 07/04/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	0.79 J Y	1.2	0.35
Motor Oil C24-C36	2.1 J	5.8	1.7

Surrogate	%REC	Limits
o-Terphenyl	93	59-130

Field ID: BR11-1GW03 [25] Batch#: 261063
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-020 Analyzed: 07/04/18
 Moisture: 11%

Analyte	Result	RL	MDL
Diesel C10-C24	0.42 J Y	1.1	0.35
Motor Oil C24-C36	ND	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	91	59-130

Field ID: BR11-1GW03 [30] Batch#: 261063
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-021 Analyzed: 07/04/18
 Moisture: 17%

Analyte	Result	RL	MDL
Diesel C10-C24	0.48 J Y	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	97	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Received:	06/26/18
Basis:	dry	Prepared:	07/02/18

Field ID: BR11-1GW03 [35] Batch#: 261063
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-022 Analyzed: 07/04/18
 Moisture: 14%

Analyte	Result	RL	MDL
Diesel C10-C24	1.1 J Y	1.2	0.36
Motor Oil C24-C36	2.3 J	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	103	59-130

Field ID: DUP06262018-01 Batch#: 261063
 Type: SAMPLE Sampled: 06/26/18
 Lab ID: 301076-023 Analyzed: 07/05/18
 Moisture: 13%

Analyte	Result	RL	MDL
Diesel C10-C24	0.70 J Y	1.2	0.35
Motor Oil C24-C36	1.8 J	5.8	1.7

Surrogate	%REC	Limits
o-Terphenyl	94	59-130

Type: BLANK Batch#: 261040
 Lab ID: QC938045 Analyzed: 07/03/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	100	59-130

Type: BLANK Batch#: 261063
 Lab ID: QC938133 Analyzed: 07/02/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	101	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC938046	Batch#:	261040
Matrix:	Soil	Prepared:	07/02/18
Units:	mg/Kg	Analyzed:	07/03/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	51.17	102	56-137

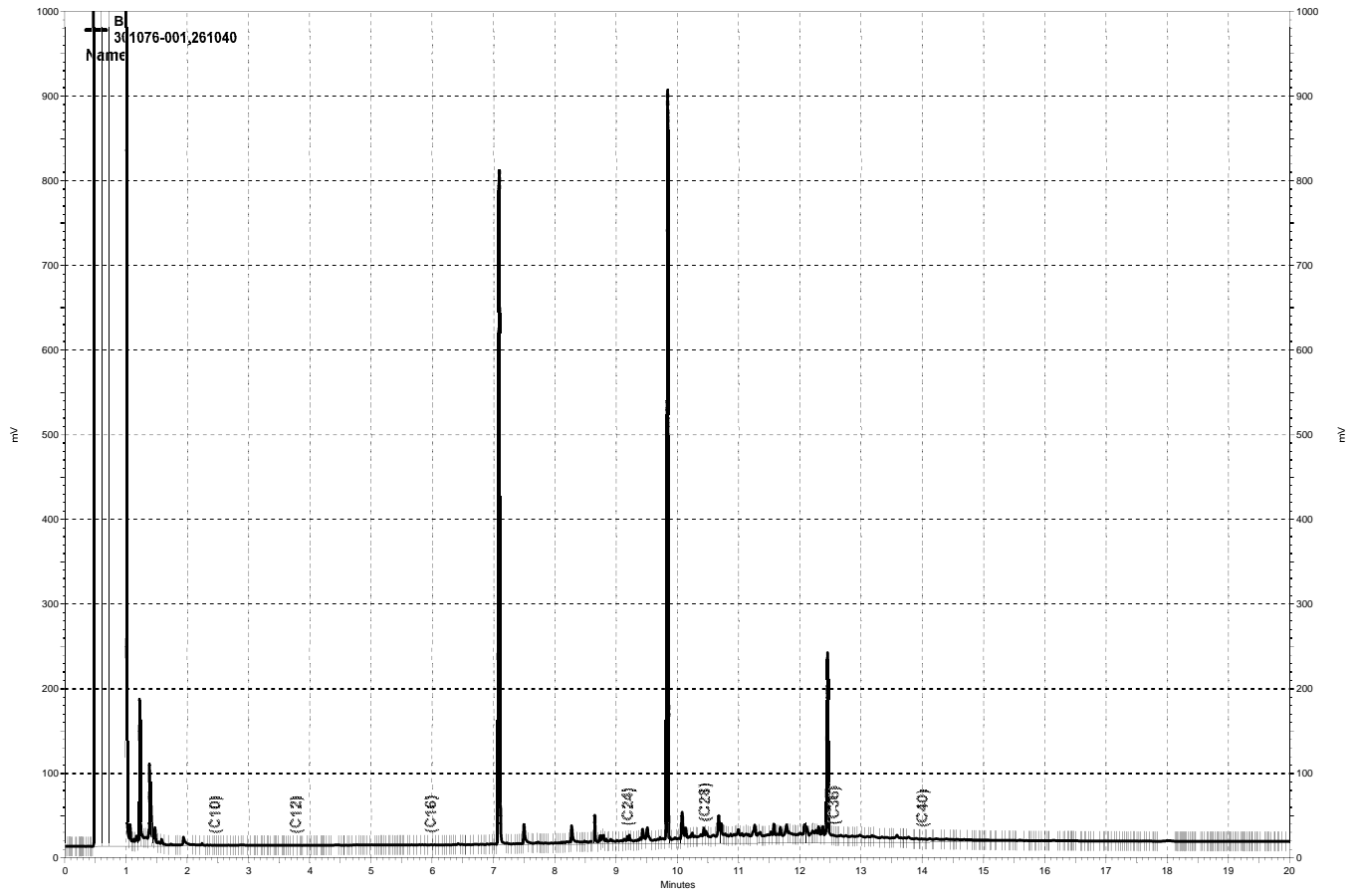
Surrogate	%REC	Limits
o-Terphenyl	108	59-130

Batch QC Report

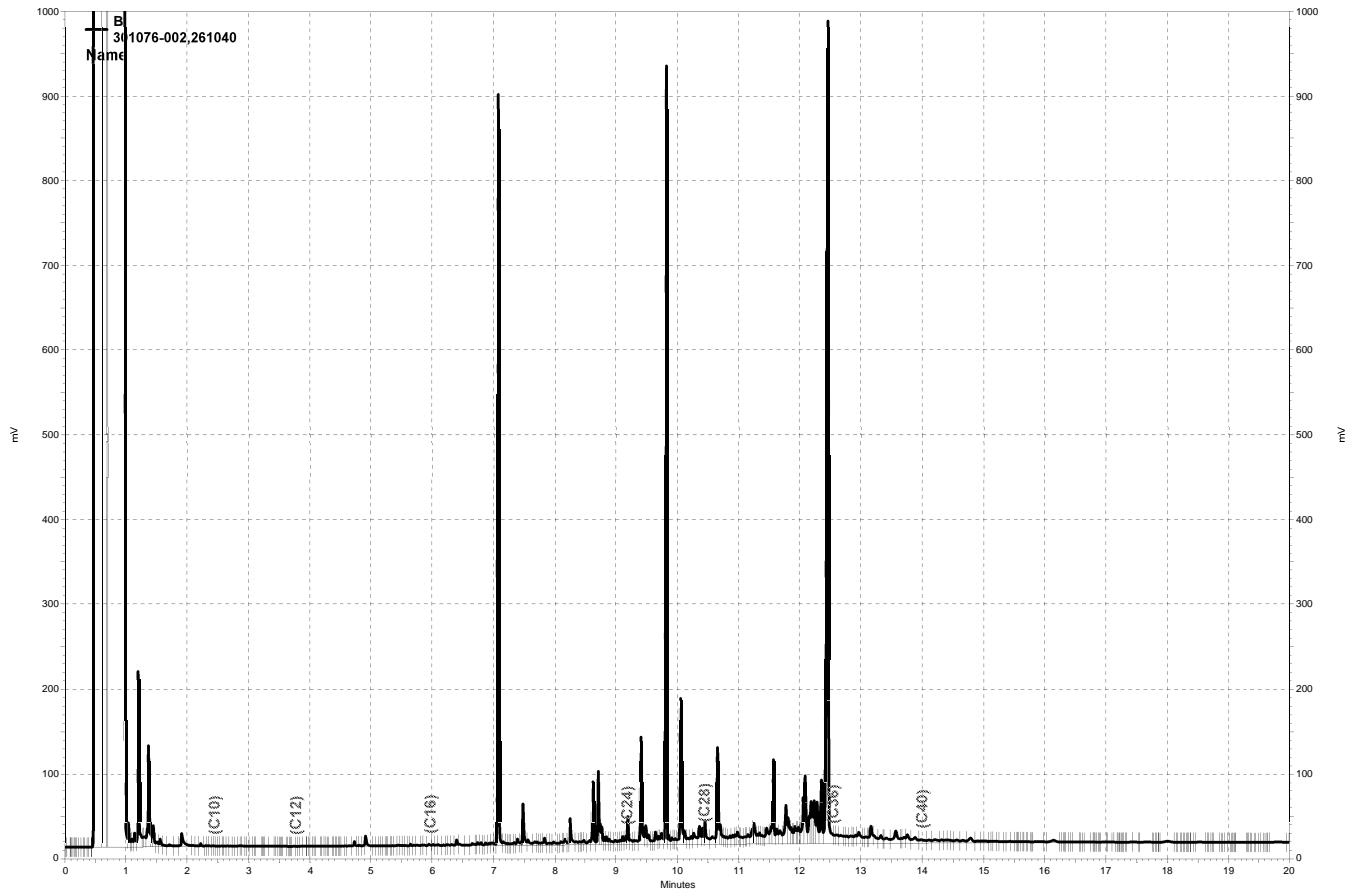
Total Extractable Hydrocarbons			
Lab #:	301076	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC938134	Batch#:	261063
Matrix:	Soil	Prepared:	07/02/18
Units:	mg/Kg	Analyzed:	07/02/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	44.18	88	56-137

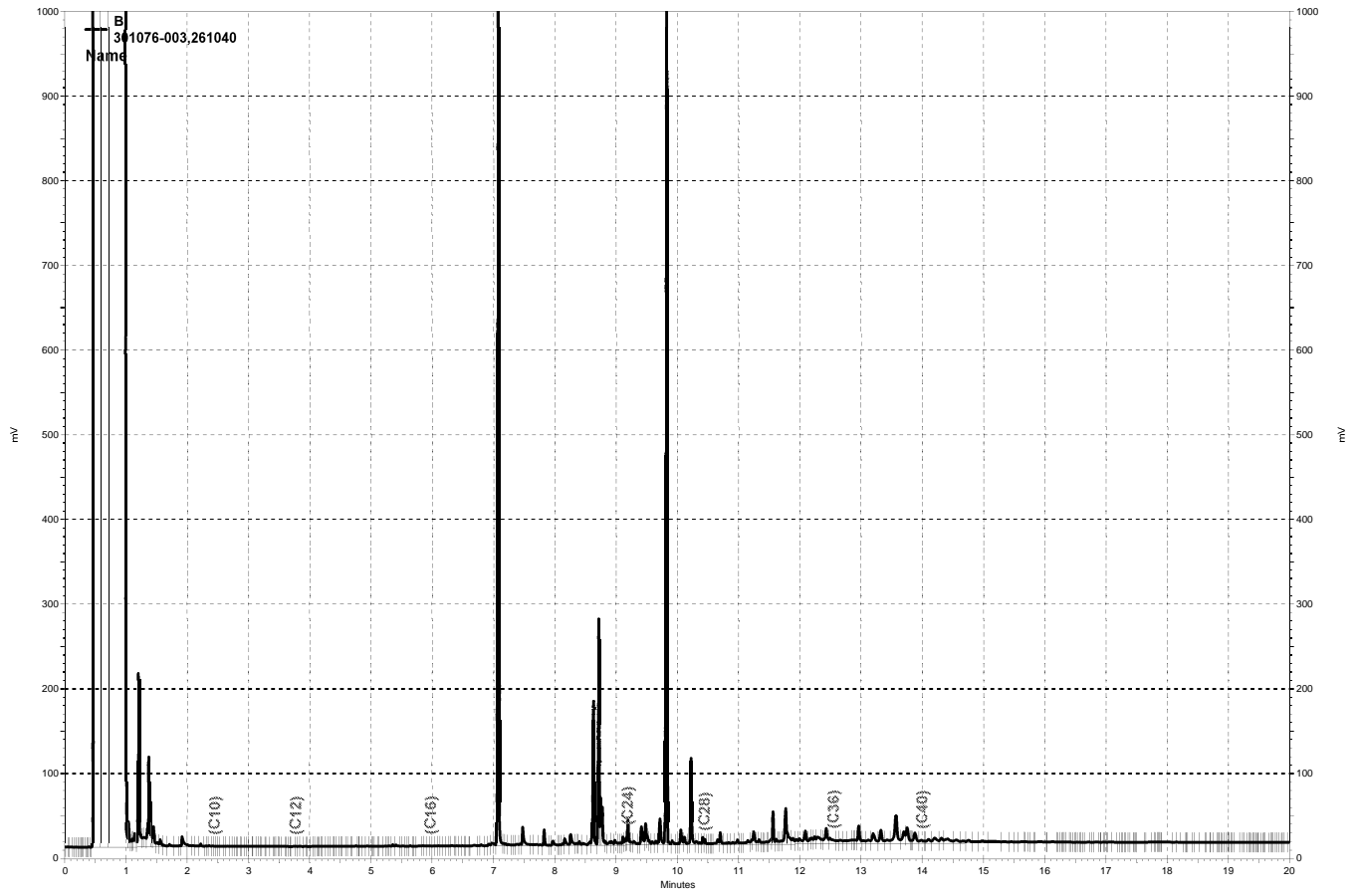
Surrogate	%REC	Limits
o-Terphenyl	106	59-130



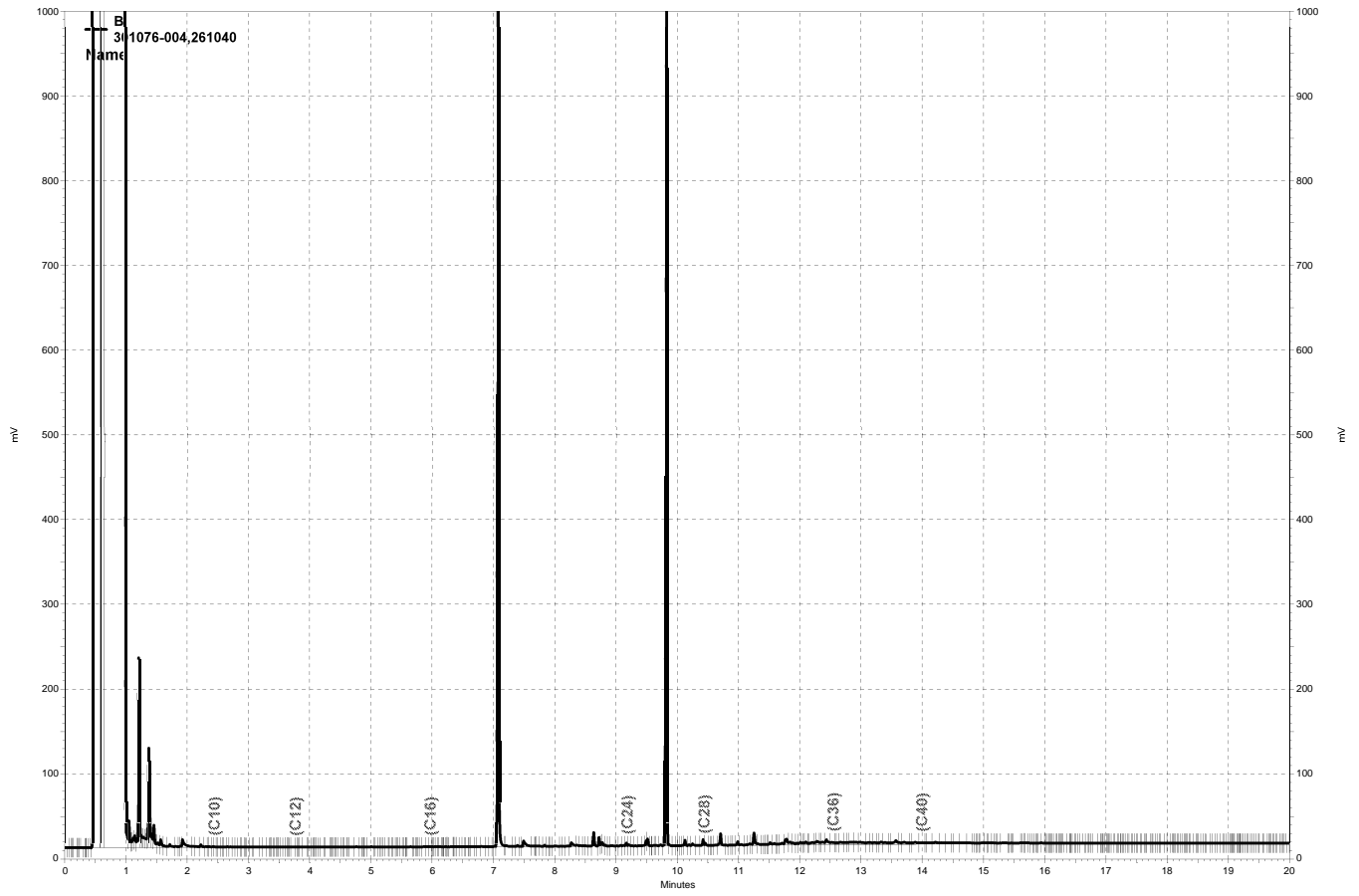
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b015, B



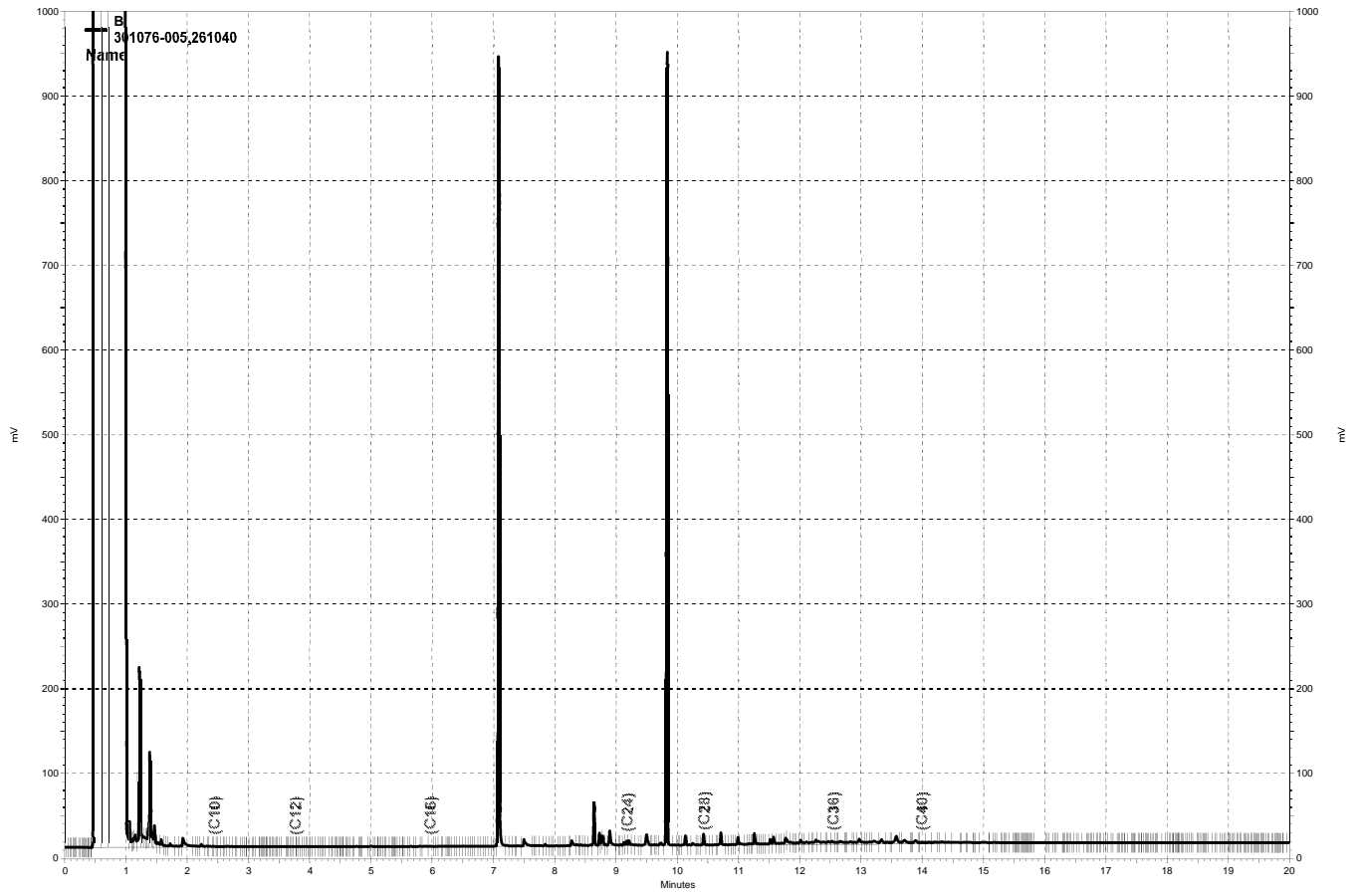
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b016, B



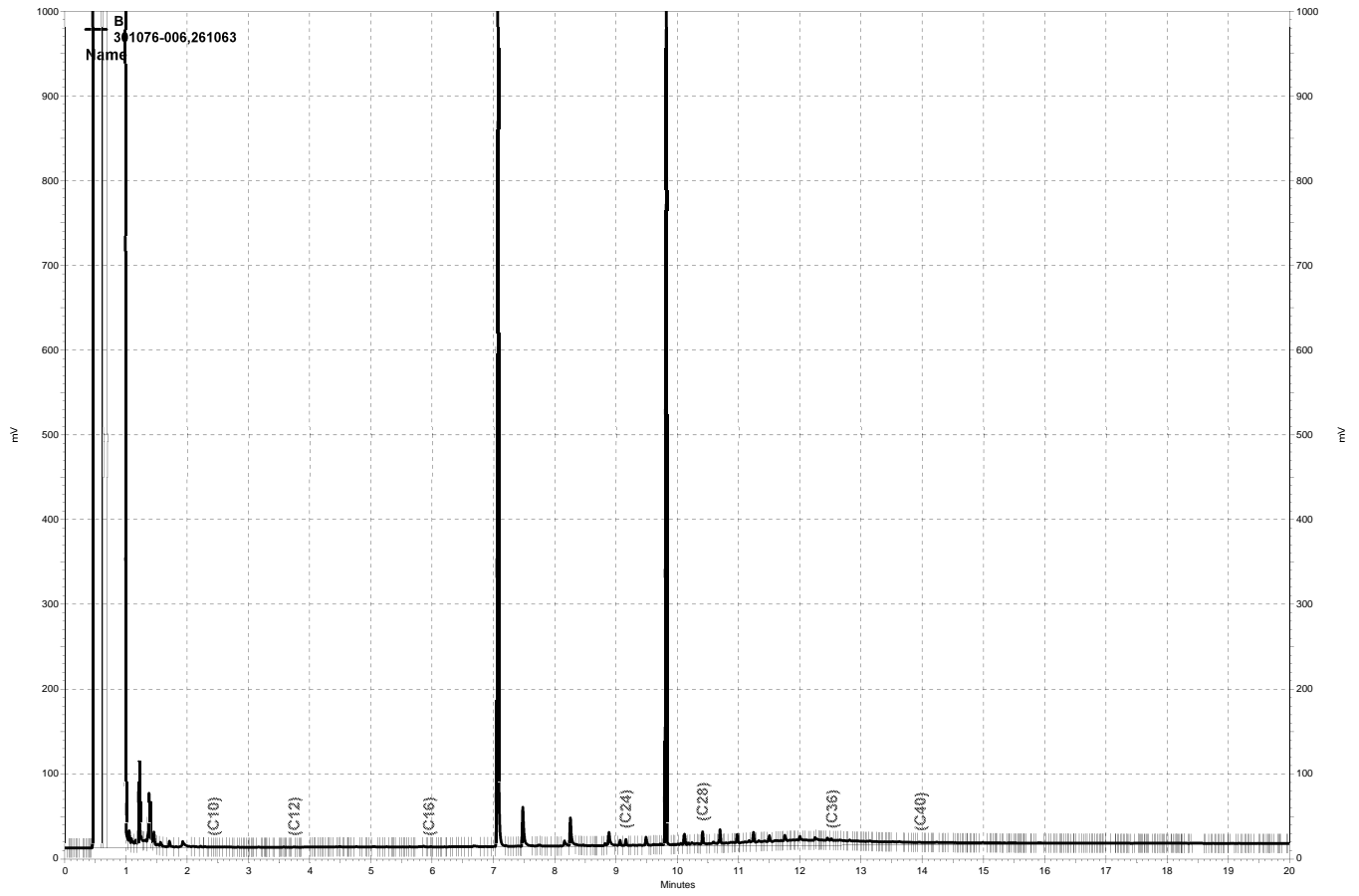
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b017, B



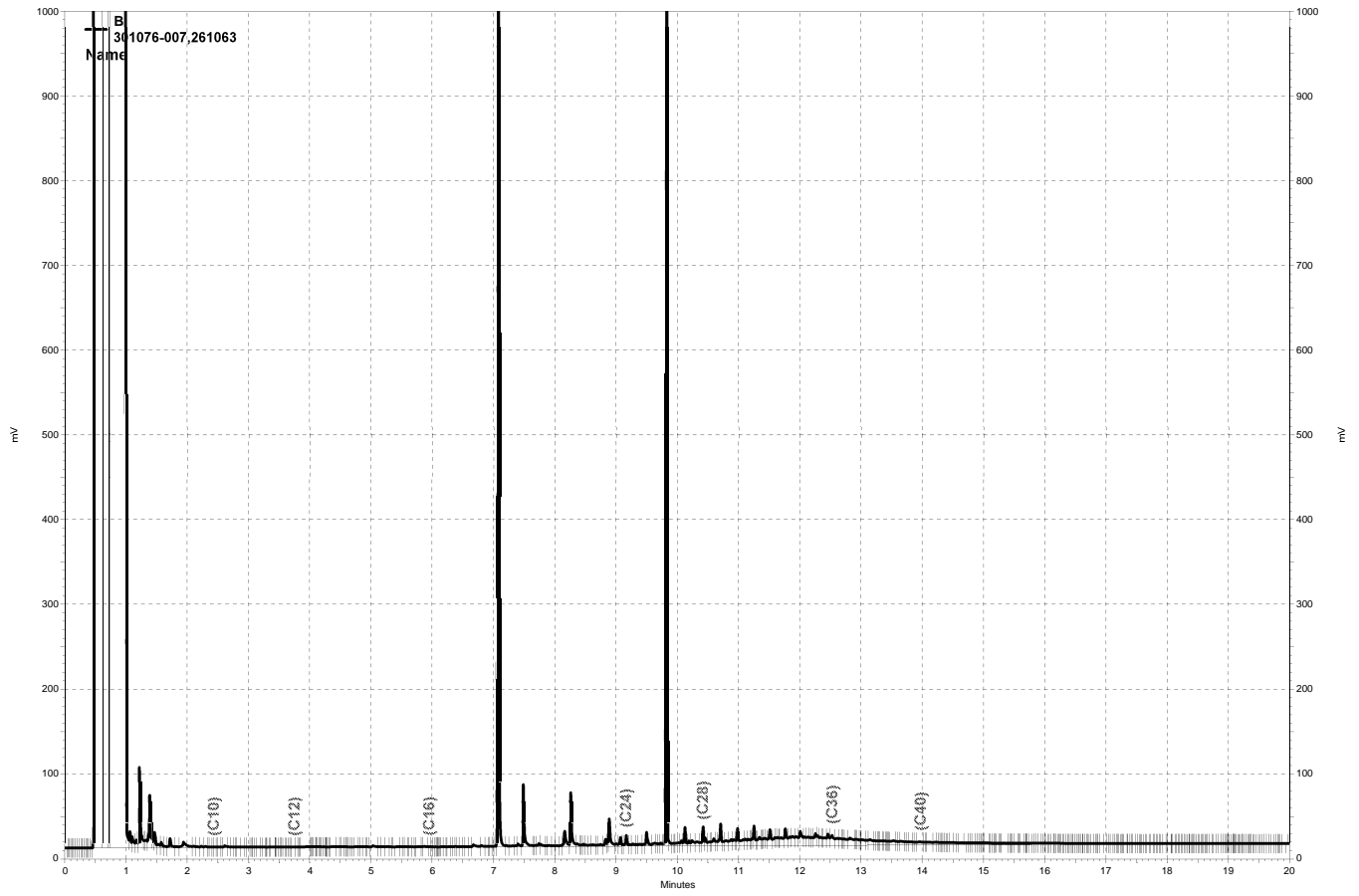
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b018, B



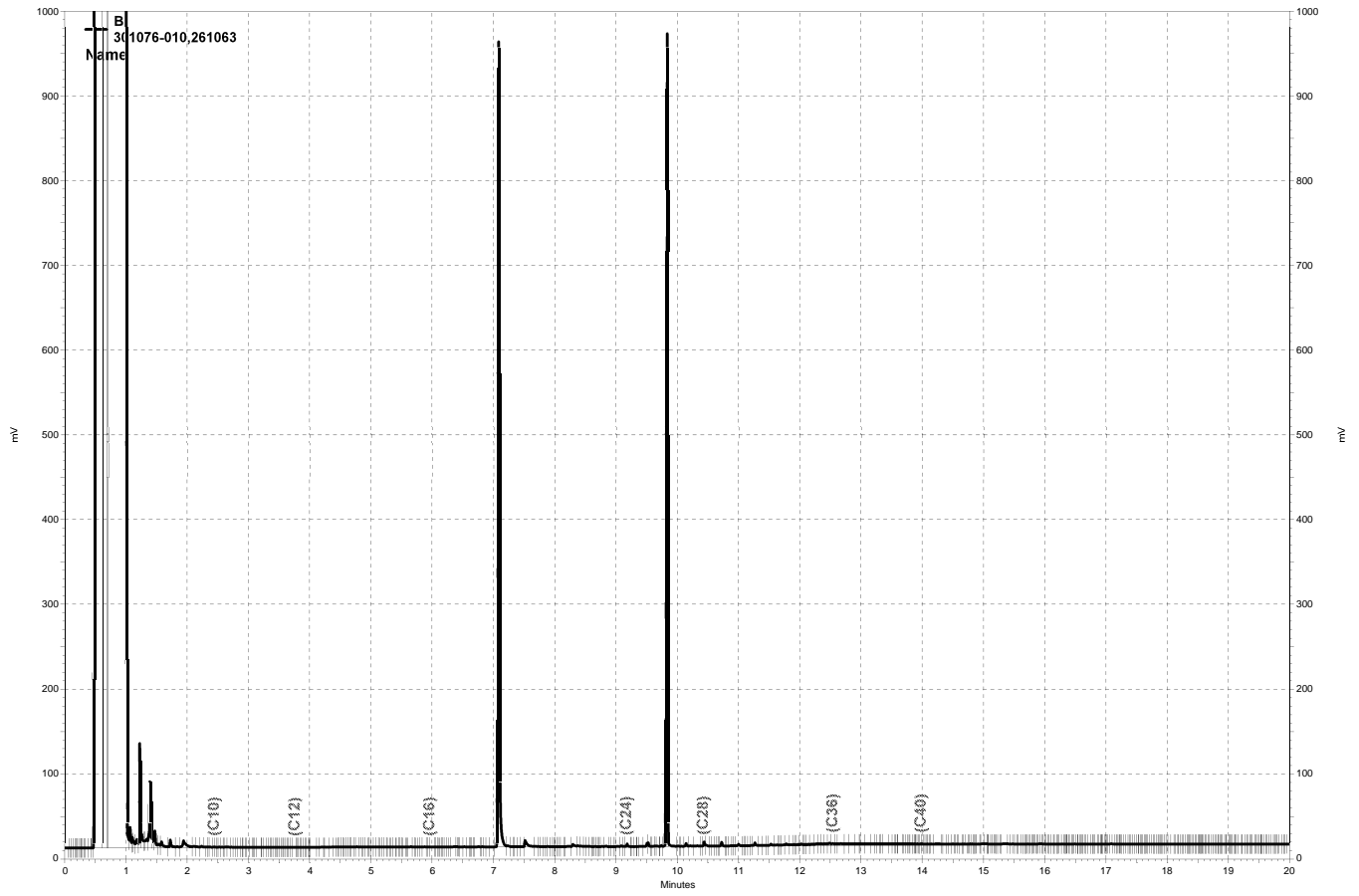
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b019, B



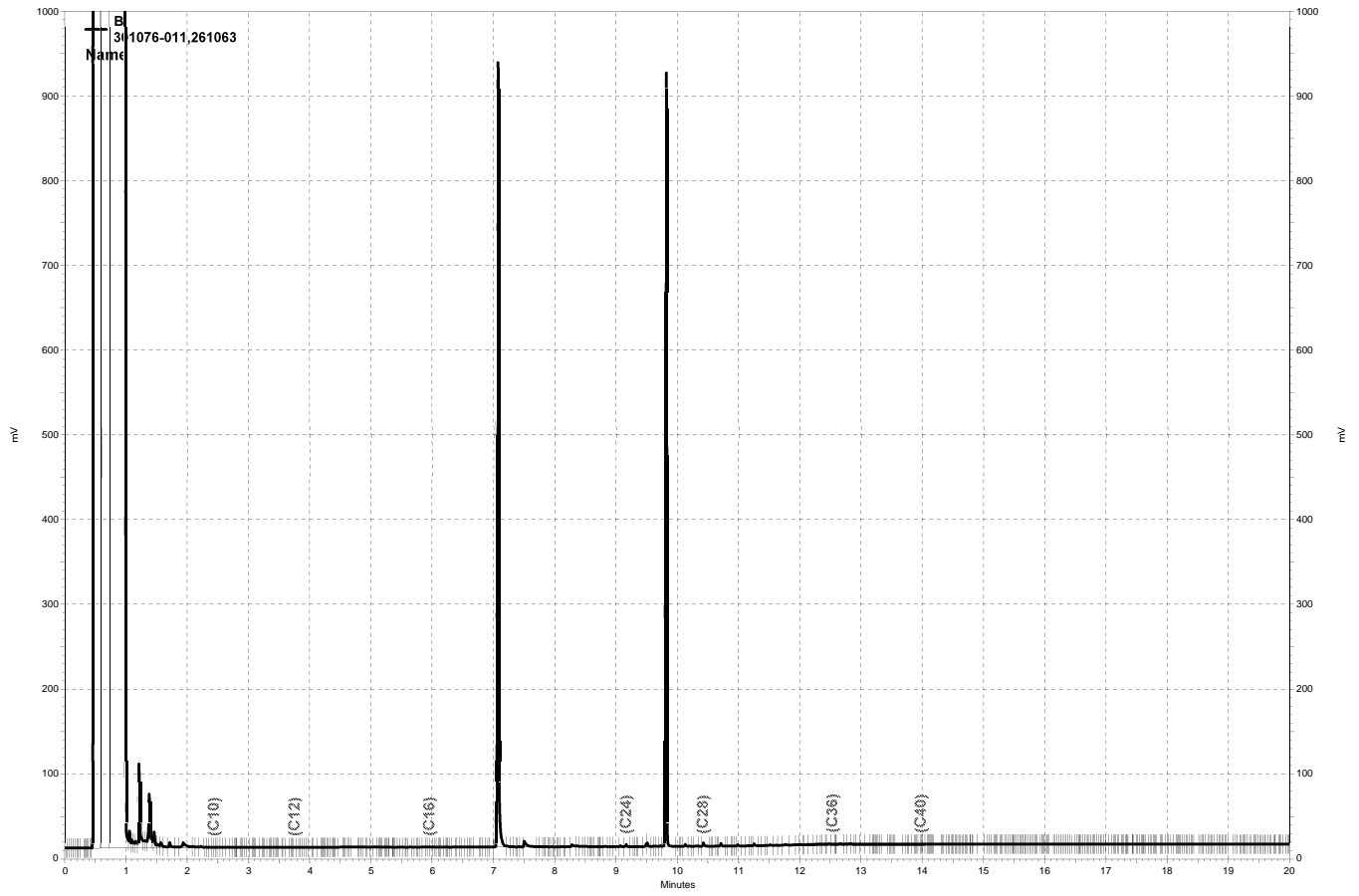
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b089, B



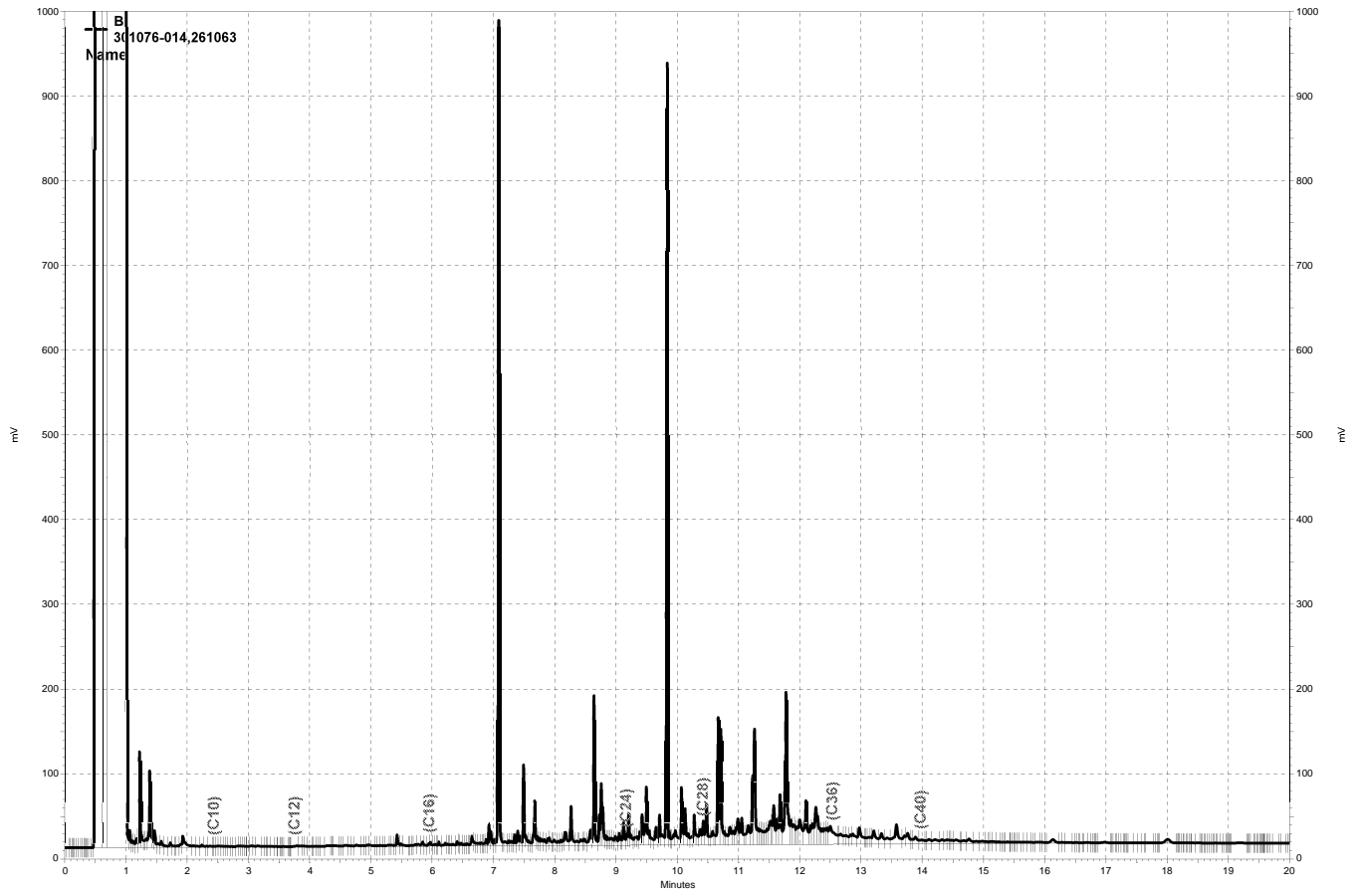
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b090, B



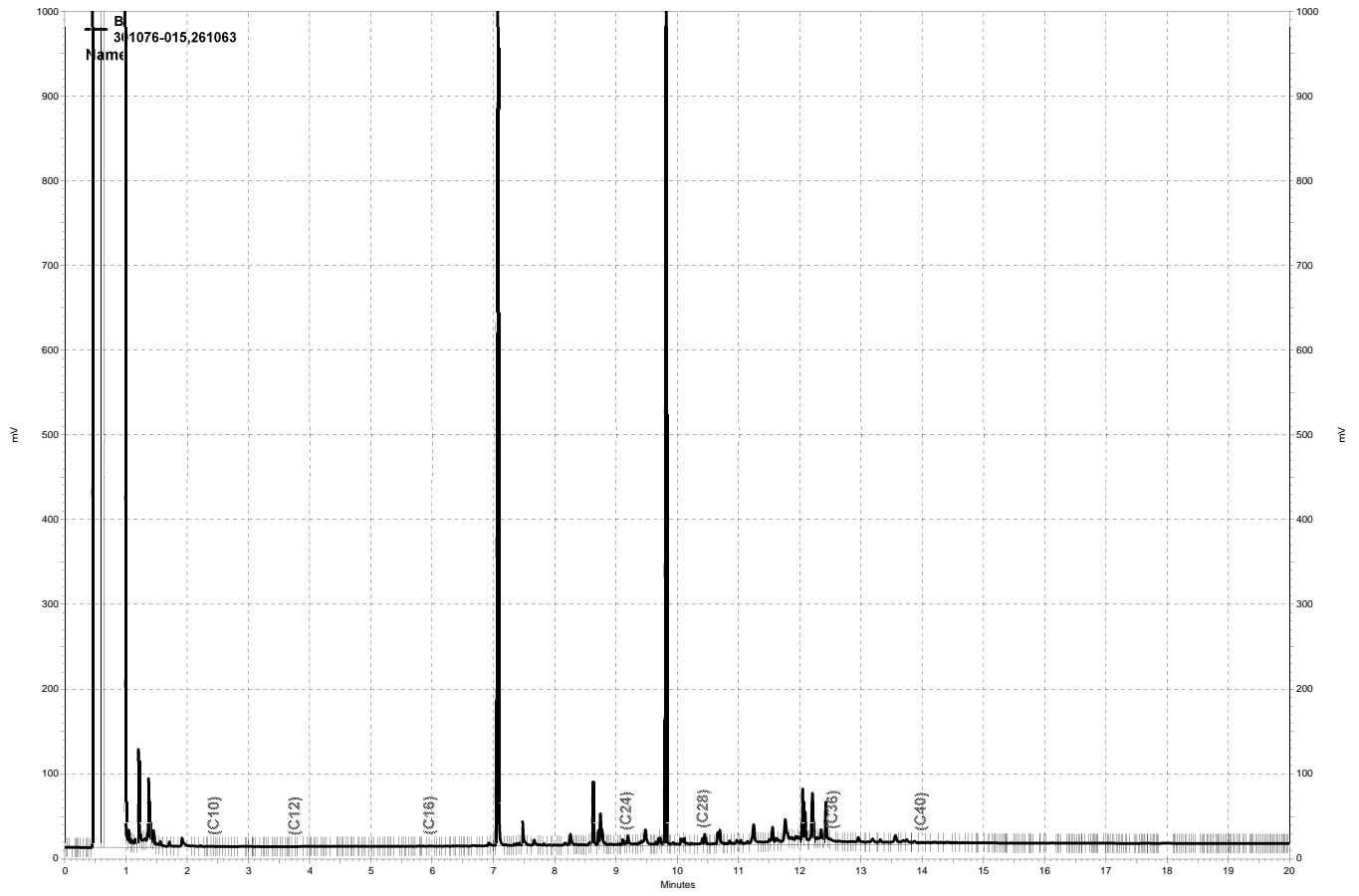
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b093, B



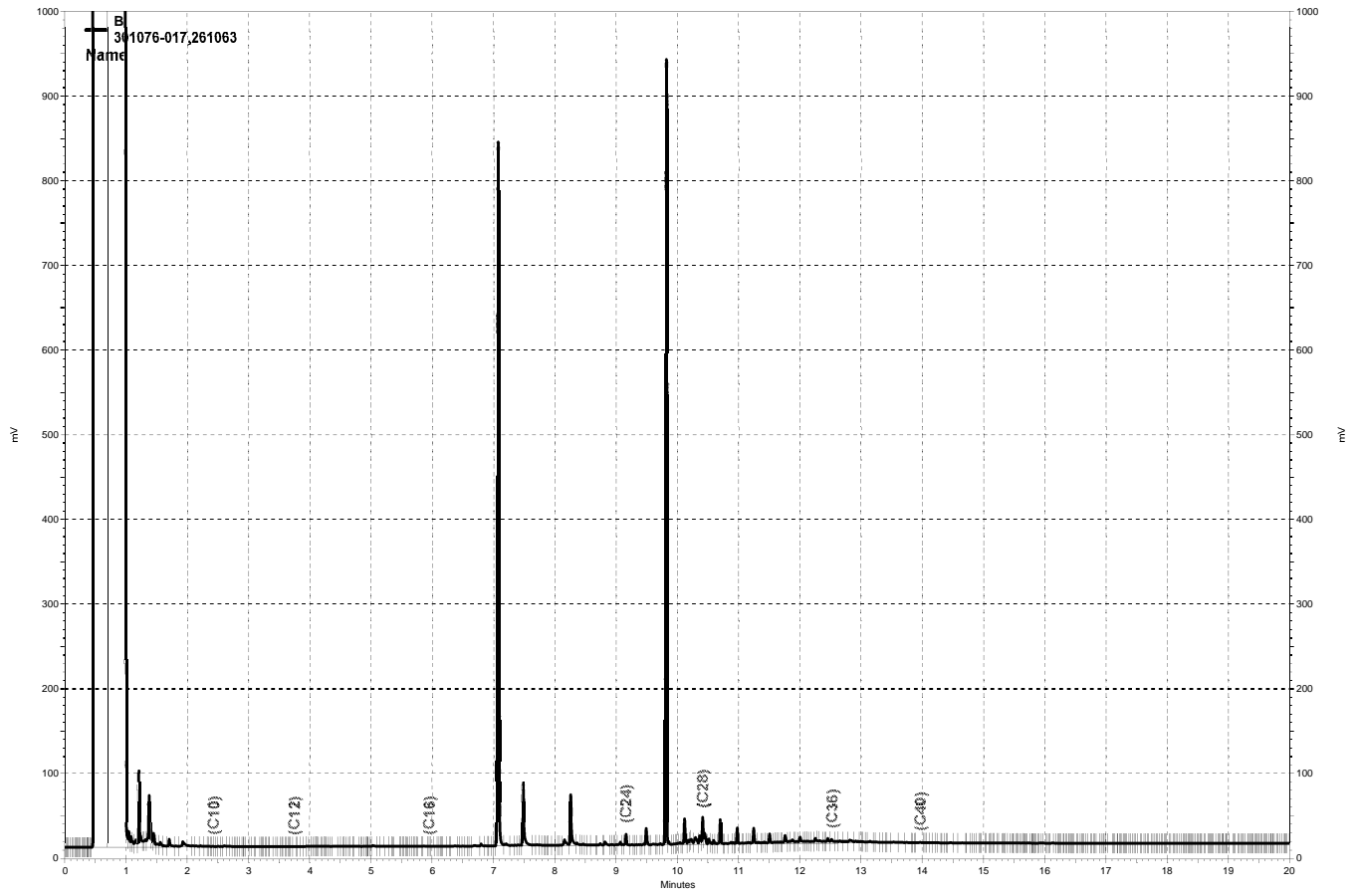
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b094, B



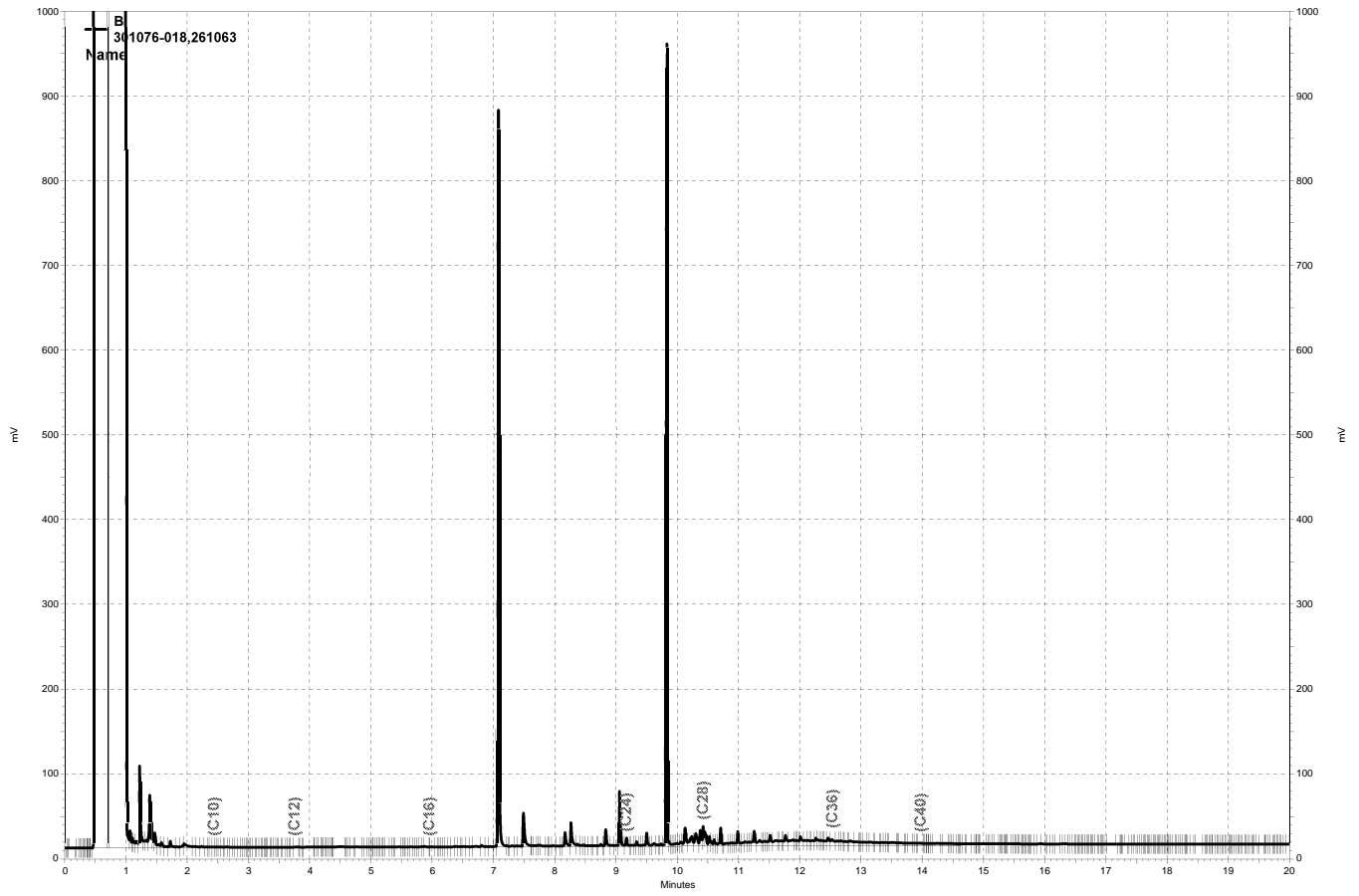
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b053, B



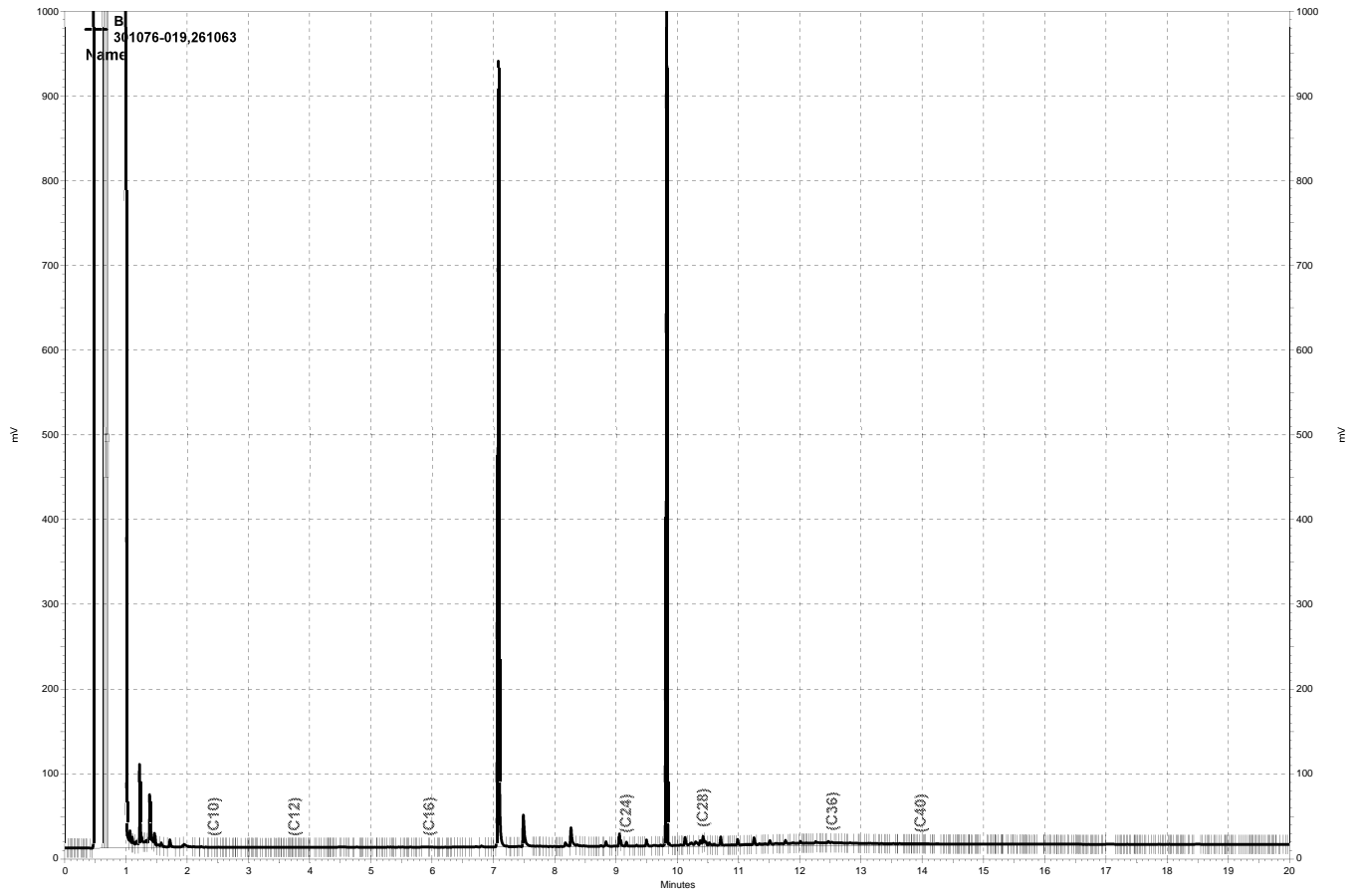
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b050, B



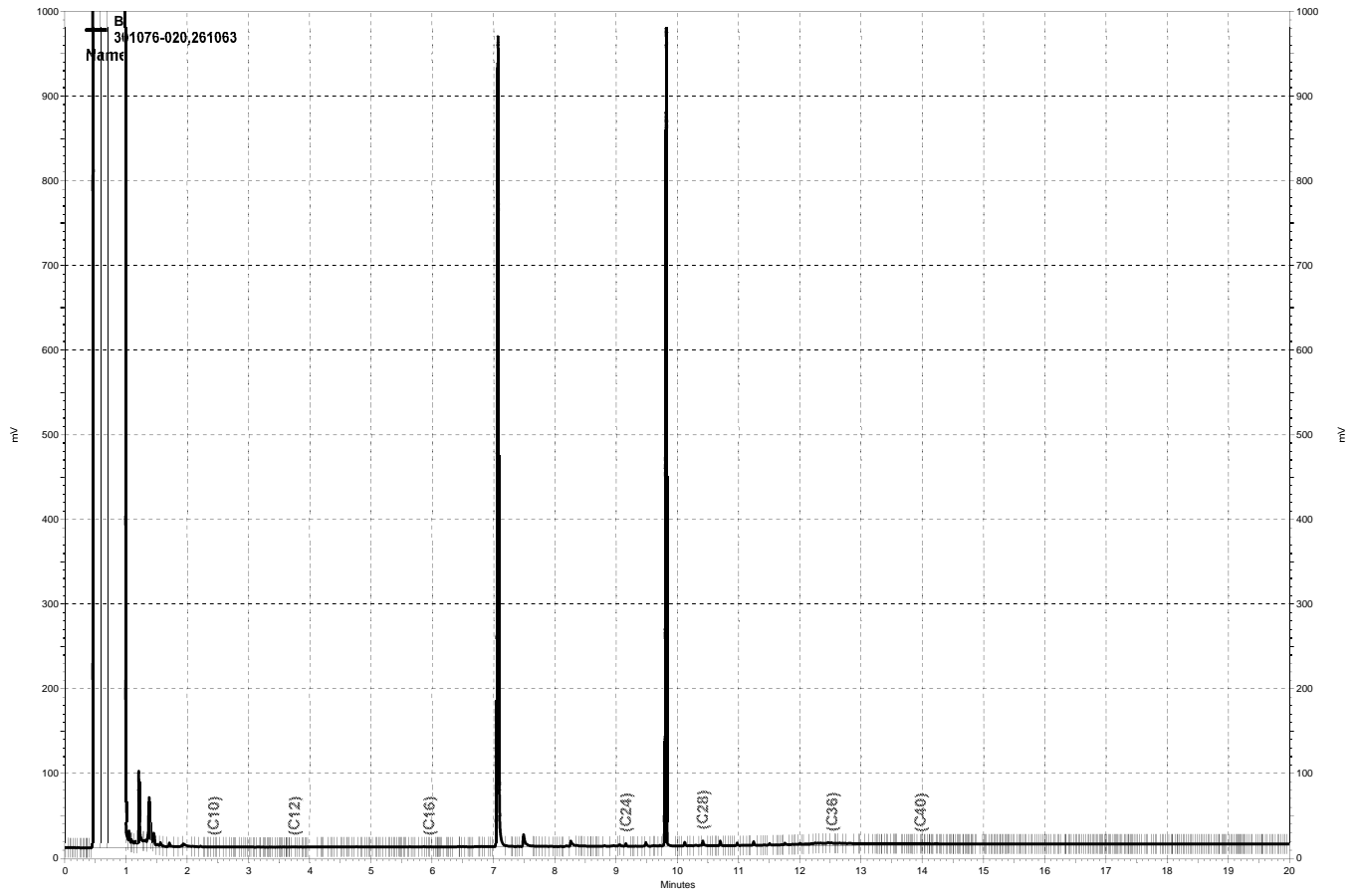
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b052, B



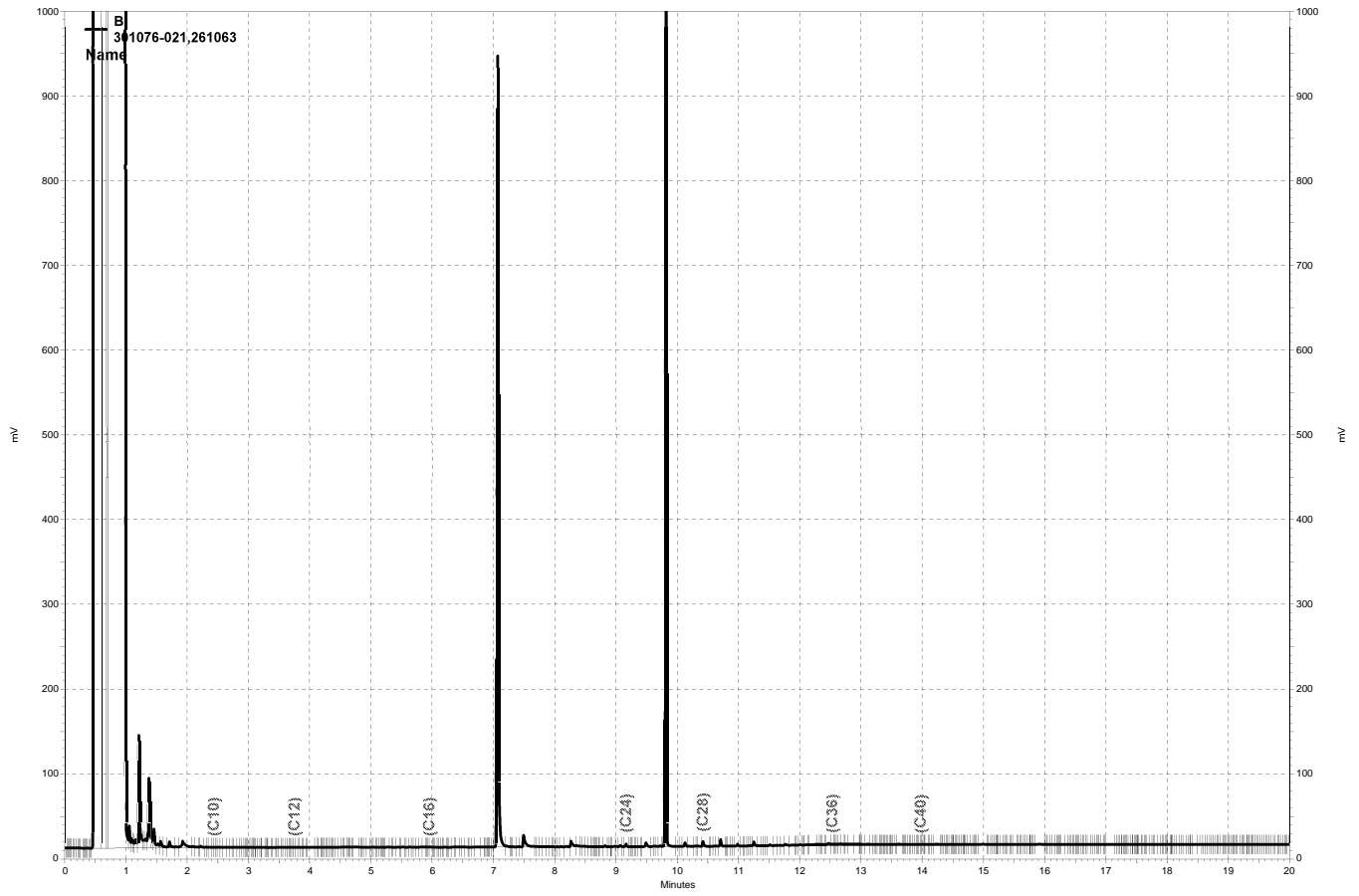
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b116, B



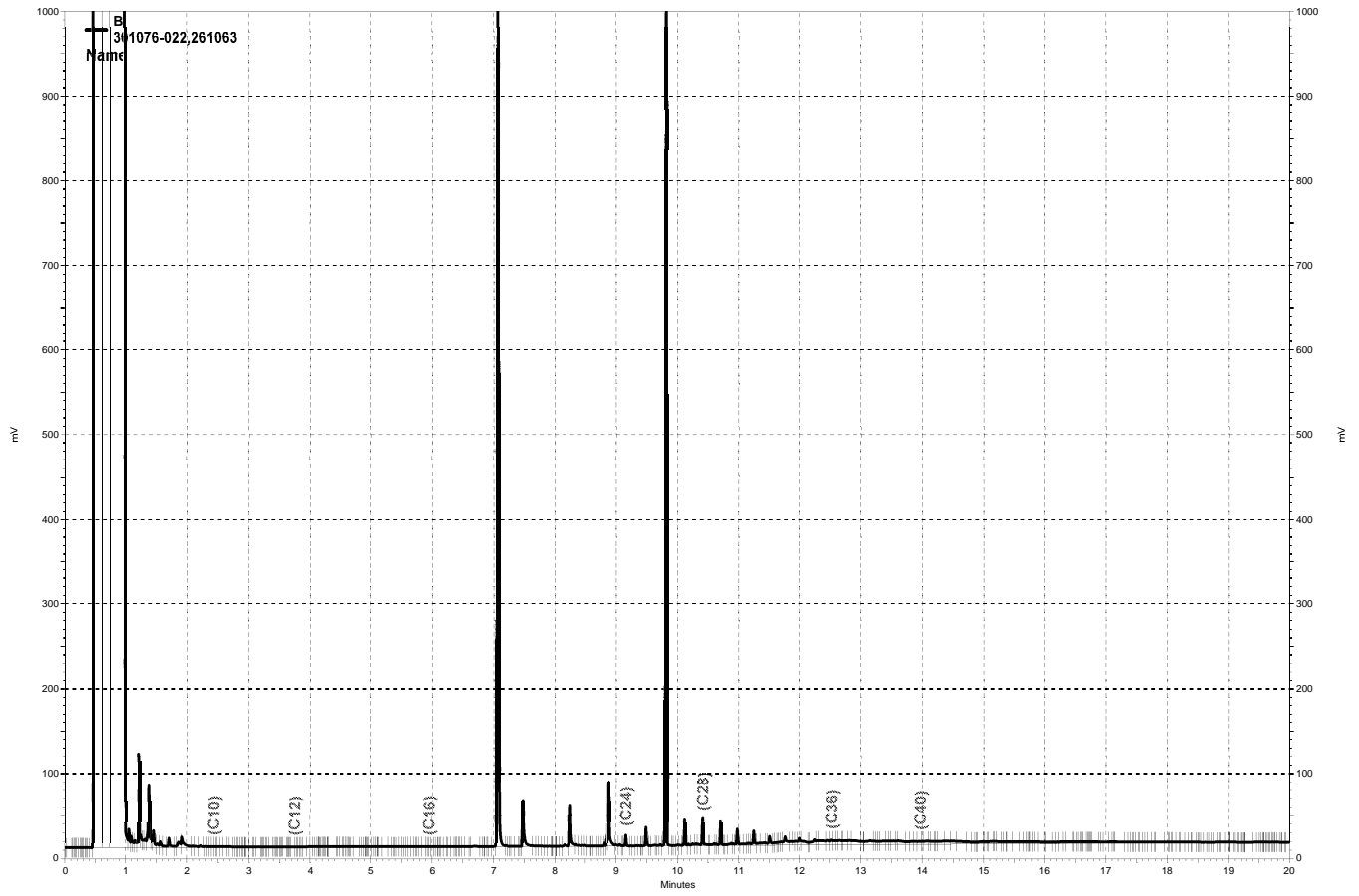
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b117, B



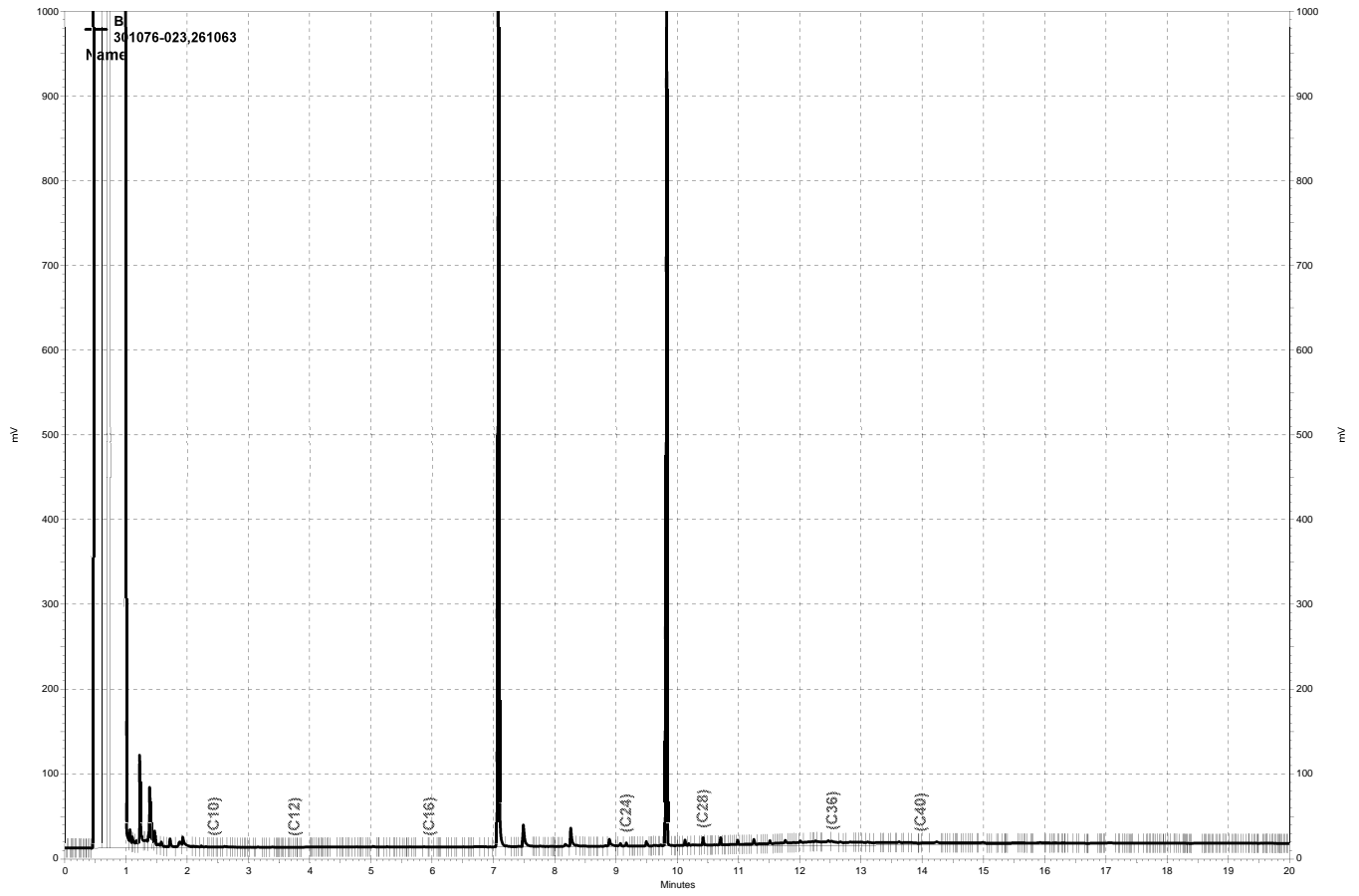
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b118, B



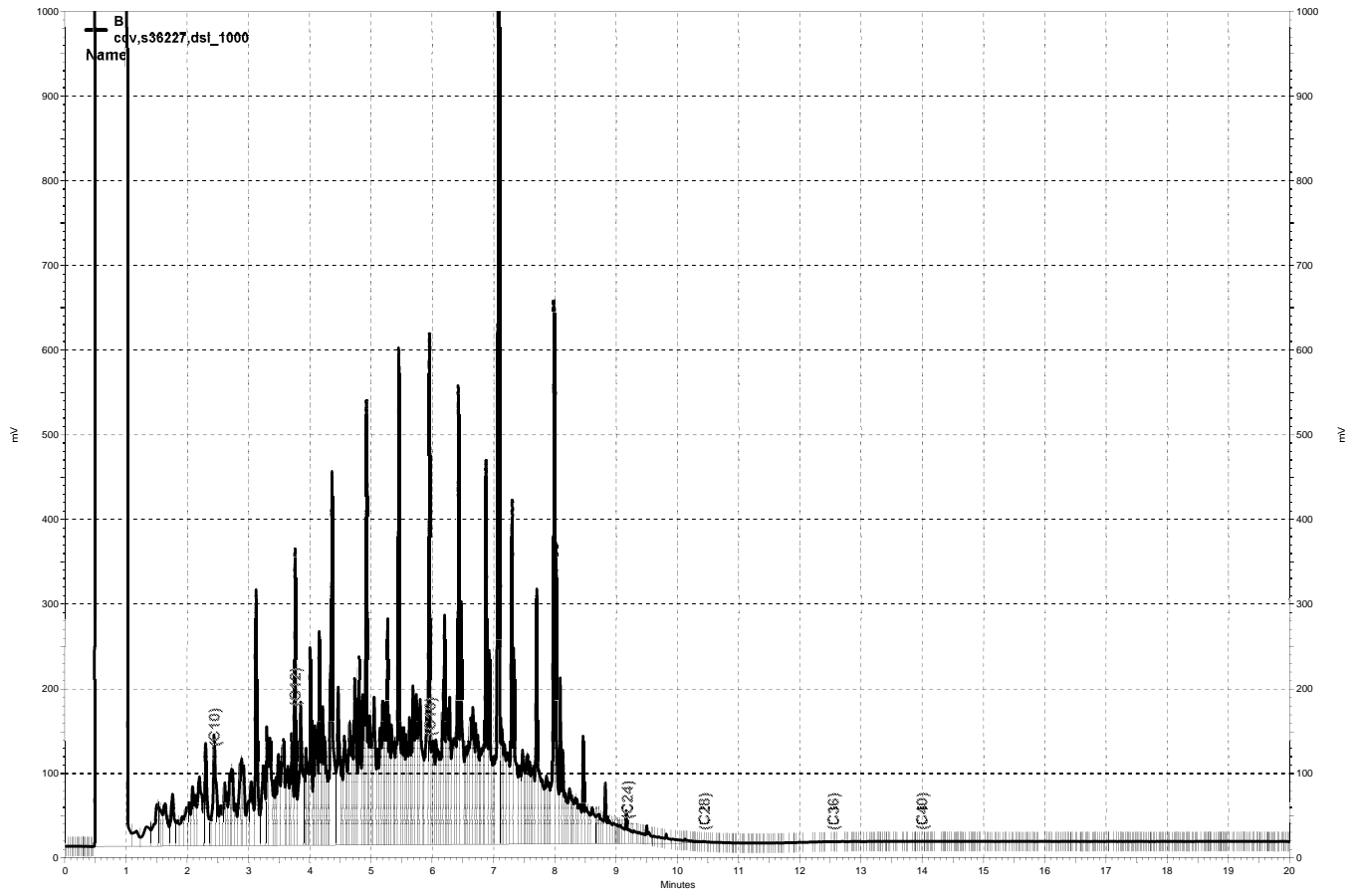
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b119, B



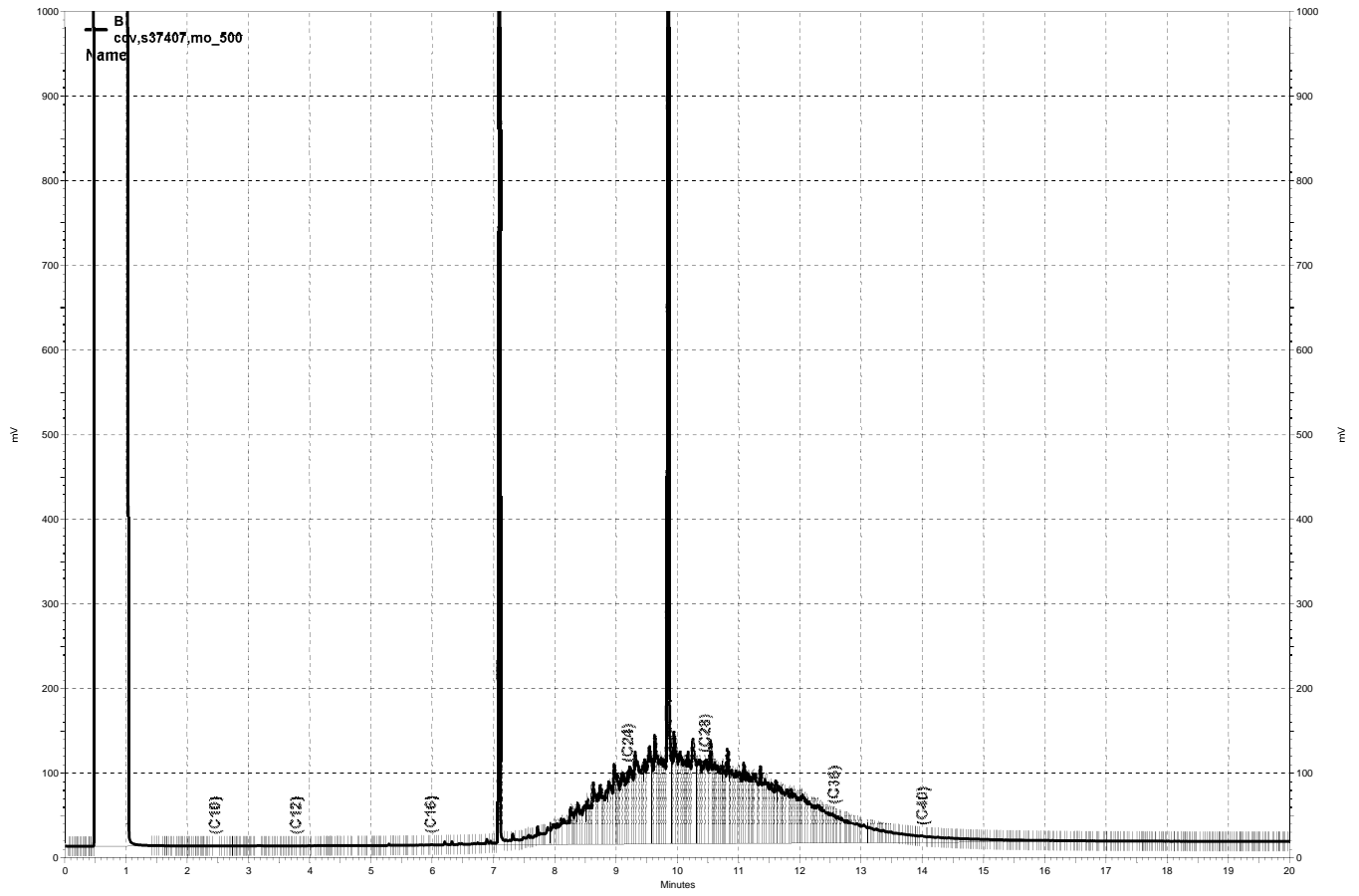
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b122, B



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b123, B



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b012, B



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b013, B

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228163090001
 Units : mg/L

Name : HEXOTP_113
 Date : 24-APR-2018 17:47
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_058	228163090058	HEX OTP_5	24-APR-2018 17:47	S36499
L2	113_059	228163090059	HEX OTP_10	24-APR-2018 18:15	S36500
L3	113_060	228163090060	HEX OTP_25	24-APR-2018 18:43	S36501
L4	113_061	228163090061	HEX OTP_50	24-APR-2018 19:10	S36502
L5	113_062	228163090062	HEX OTP_100	24-APR-2018 19:38	S36503
L6	113_063	228163090063	HEX OTP_200	24-APR-2018 20:06	S36504

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	53564	53868	53293	52451	51731	53994	AVRG		1.88E-5		53150	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	5.0000	1	10.000	1	25.000	0	50.000	-1	100.00	-3	200.00	2

CB1 04/25/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228263897001
 Units : mg/L

Name : HEXOTP_183
 Date : 03-JUL-2018 00:37
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	183_033	228263897033	HEX OTP_2.5	03-JUL-2018 00:37	S36499 (2X)
L2	183_034	228263897034	HEX OTP_5	03-JUL-2018 01:06	S36499
L3	183_035	228263897035	HEX OTP_10	03-JUL-2018 01:34	S36500
L4	183_036	228263897036	HEX OTP_25	03-JUL-2018 02:03	S36501
L5	183_037	228263897037	HEX OTP_50	03-JUL-2018 02:31	S36502
L6	183_038	228263897038	HEX OTP_100	03-JUL-2018 03:00	S36503

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	56266	54969	58095	56045	53979	52579	AVRG		1.81E-5		55322	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	2	5.0000	-1	10.000	5	25.000	1	50.000	-2	100.00	-5

WA1 07/03/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/03/18

Reviewer: TKM

Date: 07/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Soil: EPA 8015B

Inst : GC26A
 Calnum : 868259571004
 Units : mg/L

Name : HEXOTP_180
 Date : 29-JUN-2018 17:57
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	180a014	868259571014	HEXOTP_2.5	29-JUN-2018 17:57	S36499 (2X)
L2	180a015	868259571015	HEXOTP_5	29-JUN-2018 18:25	S36499
L3	180a016	868259571016	HEXOTP_10	29-JUN-2018 18:53	S36500
L4	180a017	868259571017	HEXOTP_25	29-JUN-2018 19:22	S36501
L5	180a018	868259571018	HEXOTP_50	29-JUN-2018 19:50	S36502
L6	180a019	868259571019	HEXOTP_100	29-JUN-2018 20:18	S36503

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	48638	47321	50806	48438	47800	44929	AVRG		2.08E-5		47989	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	1	5.0000	-1	10.000	6	25.000	1	50.000	0	100.00	-6

WA1 07/03/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 07/03/18

Reviewer: TKM

Date: 07/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301076 GCSV Soil: EPA 8015B

Inst : GC26A
 Calnum : 868259571002
 Units : mg/L

Name : DSL_180
 Date : 29-JUN-2018 21:14
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	180a021	868259571021	DSL_10	29-JUN-2018 21:14	S36610
L2	180a022	868259571022	DSL_100	29-JUN-2018 21:42	S36611
L3	180a023	868259571023	DSL_500	29-JUN-2018 22:11	S36613
L4	180a024	868259571024	DSL_1000	29-JUN-2018 22:39	S36615
L5	180a025	868259571025	DSL_5000	29-JUN-2018 23:07	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	43525	42119	43689	43660	41648	AVRG		2.33E-5		42928	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	1	100.00	-2	500.00	2	1000.0	2	5000.0	-3

CB1 07/02/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 07/02/18

Reviewer: TKM

Date: 07/02/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301076 GCSV Soil
EPA 8015B

Inst : GC26A
Calnum : 868259571002

Name : DSL_180
Cal Date : 29-JUN-2018

ICV 868259571027 (180a027 30-JUN-2018) stds: S35844

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	471.6	mg/L	-6	15	

Analyst: CB1

Date: 07/02/18

Reviewer: TKM

Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228263897012 File : 183_012 Time : 02-JUL-2018 13:54
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	43326	1000	962.8	mg/L	-4	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	54557	50.00	51.32	mg/L	3	15	

WA1 07/02/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897013 File : 183_013 Time : 02-JUL-2018 14:22
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	32294	500.0	543.4	mg/L	9	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	52090	50.00	49.00	mg/L	-2	15	

WA1 07/02/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228263897029.1 File : 183_029 Time : 02-JUL-2018 22:43
 Standards: S37195

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	45857	500.0	509.5	mg/L	2	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	54575	50.00	51.34	mg/L	3	15	

VQ 07/03/18 : Corrected automatically drawn baseline.

Analyst: VO Date: 07/03/18 * Reviewer: TKM Date: 07/03/18 *

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897030 File : 183_030 Time : 02-JUL-2018 23:12
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	33738	500.0	567.7	mg/L	14	15	
o-Terphenyl	B	228163090001	24-APR-2018	53150	54670	50.00	51.43	mg/L	3	15	

VQ 07/03/18 : Corrected automatically drawn baseline.

Analyst: VO Date: 07/03/18 Reviewer: TKM Date: 07/03/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897045 File : 183_045 Time : 03-JUL-2018 08:27
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	33071	500.0	556.5	mg/L	11	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	54342	50.00	49.11	mg/L	-2	15	

VQ 07/03/18 : Corrected automatically drawn baseline.

Analyst: VO Date: 07/03/18 * Reviewer: WA1 Date: 07/03/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897064.1 File : 183_064 Time : 03-JUL-2018 20:09
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	33241	500.0	559.4	mg/L	12	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	53730	50.00	48.56	mg/L	-3	15	

CB1 07/05/18 : ccv,s37407,mo_500

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: EAH Date: 07/05/18 * Reviewer: CB1 Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228263897079.1 File : 183_079 Time : 04-JUL-2018 03:18
 Standards: S37195

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	46194	500.0	513.3	mg/L	3	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	54496	50.00	49.25	mg/L	-1	15	

CB1 07/05/18 : ccv,s37195,dsl_500

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897080 File : 183_080 Time : 04-JUL-2018 03:46
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	31838	500.0	535.8	mg/L	7	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	53939	50.00	48.75	mg/L	-3	15	

CB1 07/05/18 : ccv,s37407,mo_500

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
Seqnum : 228263897097 File : 183_097 Time : 04-JUL-2018 11:52
Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	45125	1000	1003	mg/L	0	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	56768	50.00	51.31	mg/L	3	15	

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18
Page 1 of 1 228263897097

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897098 File : 183_098 Time : 04-JUL-2018 12:21
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	32233	500.0	542.4	mg/L	8	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	53478	50.00	48.33	mg/L	-3	15	

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897114 File : 183_114 Time : 04-JUL-2018 19:51
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	31811	500.0	535.3	mg/L	7	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	54394	50.00	49.16	mg/L	-2	15	

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
Seqnum : 228263897130.1 File : 183_130 Time : 05-JUL-2018 03:26
Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	45643	1000	1014	mg/L	1	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	57955	50.00	52.38	mg/L	5	15	

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897131.1 File : 183_131 Time : 05-JUL-2018 03:54
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	32513	500.0	547.1	mg/L	9	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	55730	50.00	50.37	mg/L	1	15	

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
 Seqnum : 868265382003 File : 184a003 Time : 03-JUL-2018 07:58
 Standards: S37195

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868259571002	29-JUN-2018	42928	42942	500.0	500.2	mg/L	0	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	49469	50.00	51.54	mg/L	3	15	

WA1 07/03/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/03/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301076 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_250 IDF : 1.0
 Seqnum : 868265382017 File : 184a017 Time : 03-JUL-2018 17:05
 Standards: S36285

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868259571002	29-JUN-2018	42928	41327	250.0	240.7	mg/L	-4	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	48650	50.00	50.69	mg/L	1	15	

WA1 07/03/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/03/18 Reviewer: EAH Date: 07/05/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	113_001	IB					04/23/18 06:10	1.0	
002	113_002	IB					04/23/18 06:38	1.0	
003	113_003	X	CMARKER				04/23/18 07:06	1.0	1
004	113_004	CCV	DSL_500				04/23/18 07:34	1.0	2
005	113_005	CCV	MO_500				04/23/18 08:35	1.0	3
006	113_006	CCV	DSL_500				04/23/18 09:02	1.0	2
007	113_007	IB					04/23/18 12:40	1.0	
008	113_008	X	CMARKER				04/23/18 13:07	1.0	1
009	113_009	CCV	DSL_500				04/23/18 13:35	1.0	2
010	113_010	CCV	MO_500				04/23/18 14:03	1.0	3
012	113_012	IB					04/23/18 15:27	1.0	
013	113_013	SAMPLE	299115-001		Soil	258772	04/23/18 16:57	1.0	
014	113_014	SAMPLE	299115-002		Soil	258772	04/23/18 17:25	1.0	
015	113_015	SAMPLE	299115-003		Soil	258772	04/23/18 17:53	1.0	
016	113_016	SAMPLE	299115-004		Soil	258772	04/23/18 18:20	1.0	
017	113_017	SAMPLE	299056-001		Soil	258772	04/23/18 18:48	2.0	
018	113_018	IB					04/23/18 19:16	1.0	
019	113_019	SAMPLE	299117-001		Soil	258772	04/23/18 19:44	1.0	
020	113_020	SAMPLE	299117-002		Soil	258772	04/23/18 20:11	1.0	
021	113_021	MS	QC929007	S	Soil	258726	04/23/18 20:39	1.0	
022	113_022	MSD	QC929008	S	Soil	258726	04/23/18 21:07	1.0	
023	113_023	IB					04/23/18 21:35	1.0	
024	113_024	CCV	DSL_250				04/23/18 22:03	1.0	4
025	113_025	CCV	MO_500				04/23/18 22:31	1.0	3
026	113_026	X	CMARKER				04/23/18 22:59	1.0	1
027	113_027	BLANK	QC929171		Soil	258772	04/23/18 23:27	1.0	
028	113_028	LCS	QC929172		Soil	258772	04/23/18 23:55	1.0	
029	113_029	MSS	299056-002		Soil	258772	04/24/18 00:23	1.0	
030	113_030	MS	QC929173		Soil	258772	04/24/18 00:51	1.0	
031	113_031	MSD	QC929174		Soil	258772	04/24/18 01:19	1.0	
032	113_032	SAMPLE	299118-001		Soil	258772	04/24/18 01:47	1.0	
033	113_033	SAMPLE	299119-001		Soil	258772	04/24/18 02:14	1.0	
034	113_034	IB					04/24/18 02:42	1.0	
035	113_035	SAMPLE	299126-001		Soil	258772	04/24/18 03:10	1.0	
036	113_036	SAMPLE	299126-002		Soil	258772	04/24/18 03:38	1.0	
037	113_037	SAMPLE	299116-001		Soil	258772	04/24/18 04:06	1.0	
038	113_038	SAMPLE	299116-002		Soil	258772	04/24/18 04:34	1.0	
039	113_039	IB					04/24/18 05:02	1.0	
040	113_040	CCV	DSL_500				04/24/18 05:30	1.0	2
041	113_041	CCV	MO_500				04/24/18 05:58	1.0	3
042	113_042	X	CMARKER				04/24/18 06:26	1.0	1
043	113_043	SAMPLE	299056-005		Soil	258786	04/24/18 07:10	1.0	
044	113_044	SAMPLE	299056-006		Soil	258786	04/24/18 07:38	1.0	
045	113_045	SAMPLE	299055-001		Soil	258786	04/24/18 08:10	1.0	
046	113_046	SAMPLE	299055-002		Soil	258786	04/24/18 08:38	1.0	
047	113_047	SAMPLE	299055-004		Soil	258786	04/24/18 09:06	1.0	
048	113_048	SAMPLE	299055-005		Soil	258786	04/24/18 09:34	1.0	
049	113_049	SAMPLE	299055-006		Soil	258786	04/24/18 10:02	1.0	
050	113_050	SAMPLE	299055-007		Soil	258786	04/24/18 10:30	1.0	
051	113_051	CCV	DSL_1000				04/24/18 10:58	1.0	5
052	113_052	CCV	MO_500				04/24/18 11:26	1.0	3
053	113_053	X	CMARKER				04/24/18 11:54	1.0	1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B Begun : 04/23/18 06:10
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	113_054	CCV	DSL_1000				04/24/18 12:22	1.0	5
055	113_055	CCV	DSL_1000				04/24/18 12:50	1.0	5
056	113_056	IB					04/24/18 16:52	1.0	
057	113_057	IB	CALIB				04/24/18 17:20	1.0	
058	113_058	ICAL	HEX OTP_5				04/24/18 17:47	1.0	6
059	113_059	ICAL	HEX OTP_10				04/24/18 18:15	1.0	7
060	113_060	ICAL	HEX OTP_25				04/24/18 18:43	1.0	8
061	113_061	ICAL	HEX OTP_50				04/24/18 19:10	1.0	9
062	113_062	ICAL	HEX OTP_100				04/24/18 19:38	1.0	10
063	113_063	ICAL	HEX OTP_200				04/24/18 20:06	1.0	11
064	113_064	IB	CALIB				04/24/18 20:33	1.0	
065	113_065	ICAL	DSL_10				04/24/18 21:01	1.0	12
066	113_066	ICAL	DSL_100				04/24/18 21:29	1.0	13
067	113_067	ICAL	DSL_500				04/24/18 21:57	1.0	14
068	113_068	ICAL	DSL_1000				04/24/18 22:25	1.0	15
069	113_069	ICAL	DSL_5000				04/24/18 22:53	1.0	16
070	113_070	IB	CALIB				04/24/18 23:21	1.0	
071	113_071	ICV	DSL_500				04/24/18 23:49	1.0	17
072	113_072	IB	CALIB				04/25/18 00:17	1.0	
073	113_073	ICAL	MO_50				04/25/18 00:45	1.0	18
074	113_074	ICAL	MO_250				04/25/18 01:13	1.0	19
075	113_075	ICAL	MO_500				04/25/18 01:41	1.0	20
076	113_076	ICAL	MO_1000				04/25/18 02:09	1.0	21
077	113_077	ICAL	MO_2500				04/25/18 02:37	1.0	22
078	113_078	ICAL	MO_5000				04/25/18 03:05	1.0	22
079	113_079	IB	CALIB				04/25/18 03:33	1.0	
080	113_080	CMARKER	C8-C50				04/25/18 04:01	1.0	23
081	113_081	IB	CALIB				04/25/18 04:29	1.0	

CB1 04/25/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 81.

CB1 04/23/18 : Hardware failure (bent syringe) for run at position 4, RR DSL opening CCV.

WA1 04/23/18 : Position 11 was mis-injected.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S35149 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S36610 13=S36611 14=S36613 15=S36615 16=S36609 17=S35164 18=S34924 19=S34925 20=S34926 21=S34927 22=S34923
 23=S35483

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228223554

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/04/18 05:54
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	155_001	IB				06/04/18 05:54	1.0	
002	155_002	CCV	DSL_500			06/04/18 06:22	1.0	1
003	155_003	CCV	MO_500			06/04/18 06:51	1.0	2
004	155_004	X	CMARKER			06/04/18 07:19	1.0	3
005	155_005	CCV	JET_250			06/04/18 08:37	1.0	4
006	155_006	BLANK	QC934363	Water	260120	06/04/18 11:26	1.0	
007	155_007	BS	QC934364	Water	260120	06/04/18 11:54	1.0	
008	155_008	BSD	QC934365	Water	260120	06/04/18 12:23	1.0	
009	155_009	SAMPLE	300258-001	Water	260120	06/04/18 12:51	1.0	
010	155_010	CCV	DSL_1000			06/04/18 13:19	1.0	5
011	155_011	CCV	MO_500			06/04/18 14:54	1.0	2
012	155_012	CCV	JET_250			06/04/18 15:23	1.0	4
013	155_013	X	CMARKER			06/04/18 15:51	1.0	3
014	155_014	IB				06/04/18 16:20	1.0	
015	155_015	IB	CALIB			06/04/18 16:48	1.0	
016	155_016	ICAL	MO_50			06/04/18 17:17	1.0	6
017	155_017	ICAL	MO_250			06/04/18 17:45	1.0	7
018	155_018	ICAL	MO_500			06/04/18 18:14	1.0	8
019	155_019	ICAL	MO_1000			06/04/18 18:43	1.0	9
020	155_020	ICAL	MO_2500			06/04/18 19:11	1.0	10
021	155_021	ICAL	MO_5000			06/04/18 19:39	1.0	10
022	155_022	IB	CALIB			06/04/18 20:08	1.0	
023	155_023	CMARKER	C8-C40			06/04/18 20:36	1.0	3
024	155_024	IB	CALIB			06/04/18 21:04	1.0	

CB1 06/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	183_001	IB					07/02/18 06:17	1.0	
002	183_002	IB					07/02/18 06:46	1.0	
003	183_003	X	CMARKER				07/02/18 07:14	1.0	1
004	183_004	CCV	DSL_500				07/02/18 07:43	1.0	2
005	183_005	CCV	MO_500				07/02/18 08:11	1.0	3
006	183_006	BLANK	QC937860		Water	260995	07/02/18 10:57	1.0	
007	183_007	LCS	QC937861		Water	260995	07/02/18 11:26	1.0	
008	183_008	MSS	301108-001		Water	260995	07/02/18 11:54	1.0	
009	183_009	MS	QC937862		Water	260995	07/02/18 12:23	1.0	
010	183_010	MSD	QC937863		Water	260995	07/02/18 12:51	1.0	
011	183_011	SAMPLE	301135-001		Water	260995	07/02/18 13:20	1.0	
012	183_012	CCV	DSL_1000				07/02/18 13:54	1.0	4
013	183_013	CCV	MO_500				07/02/18 14:22	1.0	3
014	183_014	X	CMARKER				07/02/18 14:51	1.0	1
015	183_015	SAMPLE	301076-001		Soil	261040	07/02/18 16:07	1.0	
016	183_016	SAMPLE	301076-002		Soil	261040	07/02/18 16:36	1.0	
017	183_017	SAMPLE	301076-003		Soil	261040	07/02/18 17:04	1.0	
018	183_018	SAMPLE	301076-004		Soil	261040	07/02/18 17:32	1.0	
019	183_019	SAMPLE	301076-005		Soil	261040	07/02/18 18:00	1.0	
020	183_020	SAMPLE	301106-002		Soil	261040	07/02/18 18:29	2.0	
021	183_021	IB					07/02/18 18:57	1.0	
022	183_022	BLANK	QC938133		Soil	261063	07/02/18 19:25	1.0	
023	183_023	LCS	QC938134		Soil	261063	07/02/18 19:53	1.0	
024	183_024	MSS	301193-001		Soil	261063	07/02/18 20:21	3.0	
025	183_025	MS	QC938135		Soil	261063	07/02/18 20:49	3.0	
026	183_026	MSD	QC938136		Soil	261063	07/02/18 21:18	3.0	
027	183_027	IB					07/02/18 21:46	1.0	
028	183_028	SAMPLE	301106-001		Soil	261040	07/02/18 22:15	1.0	
029	183_029	CCV	DSL_500				07/02/18 22:43	1.0	2
030	183_030	CCV	MO_500				07/02/18 23:12	1.0	3
031	183_031	X	CMARKER				07/02/18 23:41	1.0	1
032	183_032	IB	CALIB				07/03/18 00:09	1.0	
033	183_033	ICAL	HEX OTP_2.5				07/03/18 00:37	1.0	5
034	183_034	ICAL	HEX OTP_5				07/03/18 01:06	1.0	5
035	183_035	ICAL	HEX OTP_10				07/03/18 01:34	1.0	6
036	183_036	ICAL	HEX OTP_25				07/03/18 02:03	1.0	7
037	183_037	ICAL	HEX OTP_50				07/03/18 02:31	1.0	8
038	183_038	ICAL	HEX OTP_100				07/03/18 03:00	1.0	9
039	183_039	IB	CALIB				07/03/18 03:28	1.0	
040	183_040	CMARKER	C8-C40				07/03/18 03:57	1.0	1
041	183_041	IB	CALIB				07/03/18 04:25	1.0	
042	183_042	IB					07/03/18 07:02	1.0	
043	183_043	X	CMARKER				07/03/18 07:30	1.0	1
044	183_044	CCV	DSL_500				07/03/18 07:59	1.0	2
045	183_045	CCV	MO_500				07/03/18 08:27	1.0	3
046	183_046	BLANK	QC938045		Soil	261040	07/03/18 11:14	1.0	
047	183_047	LCS	QC938046		Soil	261040	07/03/18 11:42	1.0	
048	183_048	LCS	QC938165		Soil	261072	07/03/18 12:10	1.0	
049	183_049	BLANK	QC938164		Soil	261072	07/03/18 12:38	1.0	
050	183_050	SAMPLE	301076-015		Soil	261063	07/03/18 13:07	1.0	
051	183_051	SAMPLE	301076-016		Soil	261063	07/03/18 13:35	1.0	
052	183_052	SAMPLE	301076-017		Soil	261063	07/03/18 14:03	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	183_053	SAMPLE	301076-014		Soil	261063	07/03/18 14:32	1.0		
054	183_054	SAMPLE	301070-001		Soil	261040	07/03/18 15:00	3.0		
055	183_055	SAMPLE	301124-001		Soil	261072	07/03/18 15:29	10.0		
056	183_056	IB					07/03/18 15:57	1.0		
057	183_057	MSS	301170-003		Soil	261072	07/03/18 16:25	1.0		
058	183_058	MS	QC938166		Soil	261072	07/03/18 16:54	1.0		
059	183_059	MSD	QC938167		Soil	261072	07/03/18 17:22	1.0		
060	183_060	CCV	DSL_250				07/03/18 18:15	1.0	10	
061	183_061	XCCV	MO_500				07/03/18 18:44	1.0	3	
062	183_062	X	CMARKER				07/03/18 19:12	1.0	1	
063	183_063	CCV	BUNK_500				07/03/18 19:40	1.0	11	
064	183_064	CCV	MO_500				07/03/18 20:09	1.0	3	
065	183_065	CCV	MO_500				07/03/18 20:37	1.0	3	
066	183_066	BLANK	QC938088		Water	261052	07/03/18 21:05	1.0		
067	183_067	BLANK	QC938045	S	Soil	261040	07/03/18 21:34	1.0		
068	183_068	LCS	QC938046	S	Soil	261040	07/03/18 22:02	1.0		
069	183_069	SAMPLE	301143-001	S	Soil	261040	07/03/18 22:31	1.0		
070	183_070	IB					07/03/18 22:59	1.0		
071	183_071	SAMPLE	301076-025		Water	261052	07/03/18 23:28	1.0		
072	183_072	SAMPLE	301189-001		Water	261052	07/03/18 23:57	1.0		
073	183_073	SAMPLE	301189-002		Water	261052	07/04/18 00:26	1.0		
074	183_074	SAMPLE	301189-003		Water	261052	07/04/18 00:54	1.0		
075	183_075	SAMPLE	301170-001		Soil	261072	07/04/18 01:23	1.0		
076	183_076	SAMPLE	301170-002		Soil	261072	07/04/18 01:52	1.0		
077	183_077	SAMPLE	301213-001		Soil	261040	07/04/18 02:20	1.0		
078	183_078	SAMPLE	301111-001		Water	261052	07/04/18 02:49	2.0		
079	183_079	CCV	DSL_500				07/04/18 03:18	1.0	2	
080	183_080	CCV	MO_500				07/04/18 03:46	1.0	3	
081	183_081	CCV	BUNK_500				07/04/18 04:15	1.0	11	
082	183_082	X	CMARKER				07/04/18 04:44	1.0	1	
083	183_083	SAMPLE	301104-001		Soil	261072	07/04/18 05:12	1.0		
084	183_084	SAMPLE	301104-002		Soil	261072	07/04/18 05:41	1.0		
085	183_085	SAMPLE	301104-003		Soil	261072	07/04/18 06:10	1.0		
086	183_086	SAMPLE	301104-004		Soil	261072	07/04/18 06:38	1.0		
087	183_087	SAMPLE	301176-001		Soil	261040	07/04/18 07:07	10.0		
088	183_088	IB					07/04/18 07:35	1.0		
089	183_089	SAMPLE	301076-006		Soil	261063	07/04/18 08:04	1.0		
090	183_090	SAMPLE	301076-007		Soil	261063	07/04/18 08:32	1.0		
091	183_091	SAMPLE	301076-008		Soil	261063	07/04/18 09:01	1.0		
092	183_092	SAMPLE	301076-009		Soil	261063	07/04/18 09:29	1.0		
093	183_093	SAMPLE	301076-010		Soil	261063	07/04/18 09:58	1.0		
094	183_094	SAMPLE	301076-011		Soil	261063	07/04/18 10:26	1.0		
095	183_095	SAMPLE	301076-012		Soil	261063	07/04/18 10:55	1.0		
096	183_096	SAMPLE	301076-013		Soil	261063	07/04/18 11:24	1.0		
097	183_097	CCV	DSL_1000				07/04/18 11:52	1.0	4	
098	183_098	CCV	MO_500				07/04/18 12:21	1.0	3	
099	183_099	X	CMARKER				07/04/18 12:49	1.0	1	
100	183_100	BLANK	QC938316		Soil	261112	07/04/18 13:17	1.0		
101	183_101	LCS	QC938317		Soil	261112	07/04/18 13:45	1.0		
102	183_102	MSS	301147-003		Soil	261112	07/04/18 14:13	3.0		11:BUNKC:12-40=27000
103	183_103	MS	QC938318		Soil	261112	07/04/18 14:42	3.0		8:BUNKC:12-40=19000
104	183_104	MSD	QC938319		Soil	261112	07/04/18 15:10	3.0		11:BUNKC:12-40=22000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B Begun : 07/02/18 06:17
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	183_105	SAMPLE	301147-004		Soil	261112	07/04/18 15:38	3.0		11:BUNKC:12-40=20000
106	183_106	IB					07/04/18 16:06	1.0		
107	183_107	SAMPLE	301147-005		Soil	261112	07/04/18 16:34	1.0		
108	183_108	SAMPLE	301147-006		Soil	261112	07/04/18 17:02	1.0		
109	183_109	SAMPLE	301147-007		Soil	261112	07/04/18 17:30	1.0		
110	183_110	SAMPLE	301148-001		Soil	261112	07/04/18 17:59	1.0		
111	183_111	MSS	301148-002		Soil	261112	07/04/18 18:27	1.0		
112	183_112	SAMPLE	301148-003		Soil	261112	07/04/18 18:55	1.0		
113	183_113	CCV	DSL_500				07/04/18 19:23	1.0	2	
114	183_114	CCV	MO_500				07/04/18 19:51	1.0	3	
115	183_115	X	CMARKER				07/04/18 20:19	1.0	1	
116	183_116	SAMPLE	301076-018		Soil	261063	07/04/18 20:48	1.0		
117	183_117	SAMPLE	301076-019		Soil	261063	07/04/18 21:16	1.0		
118	183_118	SAMPLE	301076-020		Soil	261063	07/04/18 21:45	1.0		
119	183_119	SAMPLE	301076-021		Soil	261063	07/04/18 22:13	1.0		
120	183_120	SAMPLE	301176-015		Soil	261040	07/04/18 22:42	10.0		2:BUNKC:12-40=5500
121	183_121	IB					07/04/18 23:10	1.0		
122	183_122	SAMPLE	301076-022		Soil	261063	07/04/18 23:38	1.0		
123	183_123	SAMPLE	301076-023		Soil	261063	07/05/18 00:07	1.0		
124	183_124	SAMPLE	301176-006		Soil	261040	07/05/18 00:35	100.0		
125	183_125	IB					07/05/18 01:04	1.0		
126	183_126	IB					07/05/18 01:32	1.0		
127	183_127	SAMPLE	301176-014		Soil	261040	07/05/18 02:00	10.0		2:BUNKC:12-40=6200
128	183_128	IB					07/05/18 02:29	1.0		
129	183_129	SAMPLE	301229-001		Soil	261112	07/05/18 02:57	1.0		
130	183_130	CCV	DSL_1000				07/05/18 03:26	1.0	4	
131	183_131	CCV	MO_500				07/05/18 03:54	1.0	3	
132	183_132	X	CMARKER				07/05/18 04:23	1.0	1	

CB1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 5.

WA1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 6 through 14.

WA1 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 15 through 62.

CB1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 63 through 132.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868259571

Instrument : GC26A Begun : 06/29/18 06:11
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	180a001	IB				06/29/18 06:11	1.0	
002	180a002	X	CMARKER			06/29/18 06:39	1.0	1
003	180a003	CCV	DSL_500			06/29/18 07:07	1.0	2
004	180a004	CCV	MO_500			06/29/18 07:36	1.0	3
005	180a005	SAMPLE	301115-001	Water	260953	06/29/18 10:51	1.0	
006	180a006	BLANK	QC937707	Water	260953	06/29/18 11:19	1.0	
007	180a007	BLANK	QC937692	Miscell.	260949	06/29/18 11:49	1.0	
008	180a008	BS	QC937693	Miscell.	260949	06/29/18 12:17	1.0	
009	180a009	BSD	QC937694	Miscell.	260949	06/29/18 12:45	1.0	
010	180a010	CCV	DSL_1000			06/29/18 13:14	1.0	4
011	180a011	CCV	MO_500			06/29/18 13:43	1.0	3
012	180a012	X	CMARKER			06/29/18 14:11	1.0	1
013	180a013	IB	CALIB			06/29/18 17:29	1.0	
014	180a014	ICAL	HEXOTP_2.5			06/29/18 17:57	1.0	5
015	180a015	ICAL	HEXOTP_5			06/29/18 18:25	1.0	5
016	180a016	ICAL	HEXOTP_10			06/29/18 18:53	1.0	6
017	180a017	ICAL	HEXOTP_25			06/29/18 19:22	1.0	7
018	180a018	ICAL	HEXOTP_50			06/29/18 19:50	1.0	8
019	180a019	ICAL	HEXOTP_100			06/29/18 20:18	1.0	9
020	180a020	IB	CALIB			06/29/18 20:46	1.0	
021	180a021	ICAL	DSL_10			06/29/18 21:14	1.0	10
022	180a022	ICAL	DSL_100			06/29/18 21:42	1.0	11
023	180a023	ICAL	DSL_500			06/29/18 22:11	1.0	12
024	180a024	ICAL	DSL_1000			06/29/18 22:39	1.0	13
025	180a025	ICAL	DSL_5000			06/29/18 23:07	1.0	14
026	180a026	IB	CALIB			06/29/18 23:35	1.0	
027	180a027	ICV	DSL_500			06/30/18 00:04	1.0	15
028	180a028	IB	CALIB			06/30/18 00:32	1.0	
029	180a029	ICAL	MO_50			06/30/18 01:00	1.0	16
030	180a030	ICAL	MO_250			06/30/18 01:27	1.0	17
031	180a031	ICAL	MO_500			06/30/18 01:56	1.0	18
032	180a032	ICAL	MO_1000			06/30/18 02:24	1.0	19
033	180a033	ICAL	MO_2500			06/30/18 02:52	1.0	20
034	180a034	ICAL	MO_5000			06/30/18 03:20	1.0	20
035	180a035	IB	CALIB			06/30/18 03:48	1.0	
036	180a036	ICV	MO_500			06/30/18 04:15	1.0	21
037	180a037	IB	CALIB			06/30/18 04:43	1.0	
038	180a038	CMARKER	C8-C40			06/30/18 05:11	1.0	1
039	180a039	IB	CALIB			06/30/18 05:39	1.0	

CB1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 39.

Standards used: 1=S36439 2=S37195 3=S36833 4=S36227 5=S36499 6=S36500 7=S36501 8=S36502 9=S36503 10=S36610 11=S36611
 12=S36613 13=S36615 14=S36609 15=S35844 16=S36946 17=S36948 18=S36949 19=S36951 20=S36926 21=S37407

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868265382

Instrument : GC26A Begun : 07/03/18 07:02
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	184a001	IB				07/03/18 07:02	1.0	
002	184a002	X	CMARKER			07/03/18 07:30	1.0	1
003	184a003	CCV	DSL_500			07/03/18 07:58	1.0	2
004	184a004	CCV	MO_500			07/03/18 08:26	1.0	3
005	184a005	MSS	300950-002	Soil	261040	07/03/18 11:26	1.0	
006	184a006	MS	QC938047	Soil	261040	07/03/18 11:54	1.0	
007	184a007	MSD	QC938048	Soil	261040	07/03/18 12:22	1.0	
008	184a008	SAMPLE	300950-001	Soil	261040	07/03/18 12:50	2.0	
009	184a009	SAMPLE	300950-003	Soil	261040	07/03/18 13:18	1.0	
010	184a010	SAMPLE	300950-004	Soil	261040	07/03/18 13:46	1.0	
011	184a011	SAMPLE	300950-005	Soil	261040	07/03/18 14:15	1.0	
012	184a012	SAMPLE	300950-006	Soil	261040	07/03/18 14:43	1.0	
013	184a013	SAMPLE	301193-003	Soil	261063	07/03/18 15:11	1.0	3:BUNKC:10-40=7900
014	184a014	IB				07/03/18 15:40	1.0	
015	184a015	BS	QC938089	Water	261052	07/03/18 16:08	1.0	
016	184a016	BSD	QC938090	Water	261052	07/03/18 16:36	1.0	
017	184a017	CCV	DSL_250			07/03/18 17:05	1.0	4
018	184a018	X	CMARKER			07/03/18 17:33	1.0	1
019	184a019	IB				07/03/18 18:01	1.0	
020	184a020	IB				07/03/18 18:29	1.0	
021	184a021	IB				07/03/18 18:57	1.0	
022	184a022	IB				07/03/18 19:26	1.0	
023	184a023	IB				07/03/18 19:54	1.0	
024	184a024	IB	CALIB			07/03/18 20:22	1.0	
025	184a025	ICAL	MO_50			07/03/18 20:50	1.0	5
026	184a026	ICAL	MO_250			07/03/18 21:18	1.0	6
027	184a027	ICAL	MO_500			07/03/18 21:47	1.0	7
028	184a028	ICAL	MO_1000			07/03/18 22:15	1.0	8
029	184a029	ICAL	MO_2500			07/03/18 22:44	1.0	9
030	184a030	ICAL	MO_5000			07/03/18 23:12	1.0	9
031	184a031	IB	CALIB			07/03/18 23:40	1.0	
032	184a032	ICV	MO_500			07/04/18 00:09	1.0	10
033	184a033	IB	CALIB			07/04/18 00:37	1.0	
034	184a034	CMARKER	C8-C40			07/04/18 01:05	1.0	1
035	184a035	IB	CALIB			07/04/18 01:33	1.0	

WA1 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 18.

CB1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 19 through 35.

Standards used: 1=S36439 2=S37195 3=S36833 4=S36285 5=S36946 6=S36948 7=S36949 8=S36951 9=S36926 10=S37407

SAMPLE PREPARATION SUMMARY

Batch # : 261040
 Started By : ALE
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 02-JUL-2018 12:09
 Spike #2 ID : S37163

Analysis : TEHM
 Finished By : ALE
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
300950-001		Soil	50.34	5	1	0.09932		.5				TEH	Transferred weight from SA3112
300950-002		Soil	50.24	5	1	0.09952		.5				TEH	Transferred weight from SA3113
300950-003		Soil	50	5	1	0.1000		.5				TEH	Transferred weight from SA3116
300950-004		Soil	50.37	5	1	0.09927		.5				TEH	Transferred weight from SA3117
300950-005		Soil	49.86	5	1	0.1003		.5				TEH	Transferred weight from SA3118
300950-006		Soil	50.42	5	1	0.09917		.5				TEH	Transferred weight from SA3119
301070-001		Soil	49.91	5	1	0.1002		.5				TEHM	Transferred weight from SA3120
301076-001		Soil	50.29	5	1	0.09942		.5				TEHM	Transferred weight from SA3121
301076-002		Soil	49.83	5	1	0.1003		.5				TEHM	Transferred weight from SA3122
301076-003		Soil	50.4	5	1	0.09921		.5				TEHM	Transferred weight from SA3123
301076-004		Soil	49.64	5	1	0.1007		.5				TEHM	Transferred weight from SA3124
301076-005		Soil	49.81	5	1	0.1004		.5				TEHM	Transferred weight from SA3125
301106-001		Soil	25.19	5	1	0.1985		.5				TEH	Transferred weight from SA3127
301106-002		Soil	25.02	5	1	0.1998		.5				TEH	Transferred weight from SA3126
301143-001		Soil	50.15	5	1	0.0997		.5			3630	TEHM	See comment 1 below
301176-001		Soil	49.63	5	1	0.1007		.5				TEHM	See comment 2 below
301176-006		Soil	49.73	5	1	0.1005		.5				TEHM	See comment 3 below
301176-014		Soil	49.64	5	1	0.1007		.5				TEHM	See comment 4 below
301176-015		Soil	49.71	5	1	0.1006		.5				TEHM	See comment 5 below
301213-001		Soil	49.74	5	1	0.1005		.5				TEHM	See comment 6 below
QC938045	BLANK	Soil	50	5	1	0.1000		.5			3630	TEH	
QC938046	LCS	Soil	50	5	1	0.1000		.5	1		3630	TEH	
QC938047	MS	Soil	49.92	5	1	0.1002		.5	1			TEH	Transferred weight from SA3114
QC938048	MSD	Soil	49.78	5	1	0.1004		.5	1			TEH	Transferred weight from SA3115

Comment 1: Prepped 03-JUL-2018 11:15; A/O CRC; Transferred weight from SA3150
 Comment 2: Prepped 03-JUL-2018 11:15; A/O CRC; Transferred weight from SA3151
 Comment 3: Prepped 03-JUL-2018 11:15; A/O CRC; gunky; Transferred weight from SA3152
 Comment 4: Prepped 03-JUL-2018 11:15; A/O CRC; gunky; Transferred weight from SA3153
 Comment 5: Prepped 03-JUL-2018 11:15; A/O CRC; Transferred weight from SA3154
 Comment 6: Prepped 03-JUL-2018 11:15; A/O CRC; Transferred weight from SA3156

EAH 07/05/18 : Reviewed for NSG jobs.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

LIMS Batch No: 261040
 LIMS Analysis: TEH/M
 Date Extracted: 7/2/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
300950-001	G	transferred	5.0		
	2 P		5.0		MSS
	3 H		5.0		
	4 H		5.0		
	5 G		5.0		
	6 H		5.0		
301070-001	B		5.0		
301076-001	D		5.0		
	2		5.0		
	3		5.0		
	4		5.0		
	5		5.0		
301106-001	B		5.0		
	2 B		5.0		
MB QC 938045	N/A	50.00	5.0	X	
LC5	6	N/A 50.00	5.0	X	
MS	7	P transferred	5.0		
MSD	8	P	5.0		
301143-001	F	transferred	5.0	X	AID CRC 11:15 7/3/18
301176-001	A	weight	5.0		
	6		5.0		gunkey
	14		5.0		
	15		5.0		
	20		5.0		not in batch 7/3/18
301213-001	C		5.0		AID CRC 11:15 7/3/18 WBT 7/3/18

MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-15 Has been calibrated? Yes No

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄
 0.5 mL of Surrogate solution was added to all samples
 1.0 mL of Spike solution was added to all spikes
 1:1 CH₂Cl₂ (lot# EMS8072):Acetone (lot# FC72 HD196) was added to all
 Solvent added at (time)
 Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to final volume in boiling H₂O bath
 Relinquished to TEH Department

Mfg & Lot # / LIMS # / Time	Date/Initials
EM161285202 6-28-18	AVE 7/2/18
EM0677CS02	
S37162B	
S37163F	
12:09/11:15	
EM0677CS02 6-28-18	
EM0677CS02 6-28-18	

AVE 7/2/18
 Extraction Chemist / Date

Continued from page _____
 Continued on page _____

WBT 7/3/18
 Reviewed by / Date

SAMPLE PREPARATION SUMMARY

Batch # : 261063
 Started By : AS1
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 02-JUL-2018 15:13
 Spike #2 ID : S37163

Analysis : TEH
 Finished By : AS1
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
301076-006		Soil	49.91	5	1	0.1002		.5				TEHM	Transferred weight from SA3128
301076-007		Soil	49.77	5	1	0.1005		.5				TEHM	Transferred weight from SA3129
301076-008		Soil	49.99	5	1	0.1000		.5				TEHM	Transferred weight from SA3130
301076-009		Soil	50.02	5	1	0.09996		.5				TEHM	Transferred weight from SA3131
301076-010		Soil	49.95	5	1	0.1001		.5				TEHM	Transferred weight from SA3132
301076-011		Soil	50.11	5	1	0.09978		.5				TEHM	Transferred weight from SA3133
301076-012		Soil	49.93	5	1	0.1001		.5				TEHM	Transferred weight from SA3134
301076-013		Soil	50.39	5	1	0.09923		.5				TEHM	Transferred weight from SA3135
301076-014		Soil	50	5	1	0.1000		.5				TEHM	Transferred weight from SA3136
301076-015		Soil	50.21	5	1	0.09958		.5				TEHM	Transferred weight from SA3137
301076-016		Soil	50.28	5	1	0.09944		.5				TEHM	Transferred weight from SA3138
301076-017		Soil	50.23	5	1	0.09954		.5				TEHM	Transferred weight from SA3139
301076-018		Soil	49.8	5	1	0.1004		.5				TEHM	Transferred weight from SA3140
301076-019		Soil	50.31	5	1	0.09938		.5				TEHM	Transferred weight from SA3141
301076-020		Soil	49.71	5	1	0.1006		.5				TEHM	Transferred weight from SA3142
301076-021		Soil	50.15	5	1	0.0997		.5				TEHM	Transferred weight from SA3143
301076-022		Soil	49.96	5	1	0.1001		.5				TEHM	Transferred weight from SA3144
301076-023		Soil	49.97	5	1	0.1001		.5				TEHM	Transferred weight from SA3145
301193-001		Soil	49.94	5	1	0.1001		.5				TEH	See comment 1 below
301193-003		Soil	49.88	5	1	0.1002		.5				TEH	See comment 2 below
QC938133	BLANK	Soil	50	5	1	0.1000		.5					
QC938134	LCS	Soil	50	5	1	0.1000		.5	1				
QC938135	MS	Soil	49.86	5	1	0.1003		.5	1				Transferred weight from SA3147
QC938136	MSD	Soil	49.93	5	1	0.1001		.5	1				Transferred weight from SA3148

Comment 1: Transferred weight from SA3146; aliased: 300901-002, MSS
 Comment 2: Transferred weight from SA3149; aliased: 300901-008, organic matter

Analyst: WA1 Date: 07/03/18 Reviewer: TKM Date: 07/03/18

LIMS Batch No: 261063
 LIMS Analysis: TEH/m
 Date Extracted: 7/2/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
301076-006	D	transferred from B-15	5.0	<input type="checkbox"/>	
7			5.0	<input type="checkbox"/>	
8			5.0	<input type="checkbox"/>	
9			5.0	<input type="checkbox"/>	
10			5.0	<input type="checkbox"/>	
11			5.0	<input type="checkbox"/>	
12			5.0	<input type="checkbox"/>	
13			5.0	<input type="checkbox"/>	
14			5.0	<input type="checkbox"/>	
15			5.0	<input type="checkbox"/>	
16			5.0	<input type="checkbox"/>	
17			5.0	<input type="checkbox"/>	
18			5.0	<input type="checkbox"/>	
19			5.0	<input type="checkbox"/>	
20			5.0	<input type="checkbox"/>	
21			5.0	<input type="checkbox"/>	
22			5.0	<input type="checkbox"/>	
23			5.0	<input type="checkbox"/>	
301193-001	F		5.0	<input type="checkbox"/>	MSS; abased; 300901-002
3			5.0	<input type="checkbox"/>	organic matter; 1-008
MBQC938133	N/A	50.00	5.0	<input type="checkbox"/>	
LCS	4	50.00	5.0	<input type="checkbox"/>	
MS	5		5.0	<input type="checkbox"/>	
MSD	6		5.0	<input type="checkbox"/>	
			5.0	<input type="checkbox"/>	

MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-15 Has been calibrated? Yes No

Mfg & Lot # / LIMS # / Time Date/Initials

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄
0.5 mL of Surrogate solution was added to all samples
1.0 mL of Spike solution was added to all spikes
 1:1 CH₂Cl₂ (lot# FM5806X):Acetone (lot# FC176179) was added to all
 Solvent added at (time) 15:13
 Sonicated 3 times w/ >100mL 1:1 DCM:Acetone
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to final volume in boiling H₂O bath
 Relinquished to TEH Department

FM16J285202	ASJ 7/2/18
FM0677C502	
S37162B	
S37163F	
✓	
15:13	
✓	
FM0677C502	
✓	
✓	

[Signature] 7/2/18
 Extraction Chemist / Date

Continued from page 1
 Continued on page 1

[Signature] 7/3/18
 Reviewed by / Date

Laboratory Job Number 301076

ANALYTICAL REPORT

Wet Chemistry

Matrix: Soil

Percent Moisture Summary Report

Batch: 260971
 Date: 06/28/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
301076-012	11.02	17.56	17.06	92	8
301076-013	11.02	18.78	17.46	83	17
301076-014	11.30	18.45	17.36	85	15
301076-015	11.25	18.70	17.64	86	14
301076-016	11.27	17.49	16.55	85	15
301076-017	11.05	17.71	16.81	86	14
301076-018	11.42	18.23	17.24	85	15
301076-019	10.86	18.19	17.13	86	14
301076-020	11.03	17.02	16.39	89	11
301076-021	11.04	17.27	16.24	83	17
301076-022	11.00	17.82	16.87	86	14
301076-023	11.29	17.78	16.95	87	13
301080-001	11.17	17.70	17.17	92	8
301080-002	11.23	17.09	16.10	83	17
301080-004	11.25	17.79	17.22	91	9
301080-005	11.34	17.02	15.81	79	21
301080-006	11.11	16.81	16.21	89	11
301116-001	10.89	16.28	15.38	83	17
QC937767	11.61	16.81	15.88	82	18
of 301116-001			RPD:	1.4%	6.9%

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

LIMS Batch #: 260971

Date: 6-28-18

Page: 65

Benchbook#: BK 4277

Balance ID: B-13

calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLK	67	11.20	Ø	11.20	
301076-012 D	62	11.02	17.56	17.06	
-013	14	11.02	18.78	17.46	
-014	82	11.30	18.45	17.36	
-015	52	11.25	18.70	17.64	
-016	61	11.27	17.49	16.55	
-017	49	11.05	17.71	16.81	
-018	77	11.42	18.23	17.24	
-019	33	10.86	18.19	17.13	
-020	60	11.03	17.02	16.39	
-021	10	11.04	17.27	16.24	
-022	73	11.00	17.82	16.87	
-023	88	11.29	17.78	16.95	
301080-001 B	6	11.17	17.70	17.17	
-002	4	11.23	17.09	16.10	
-004	89	11.25	17.79	17.22	
-005	86	11.34	17.02	15.81	
-006	78	11.11	16.81	16.21	
301116-001 A	20	10.89	16.28	15.38	
SDU-001	15	11.61	16.81	15.88	
MN 6-29-18					

	In	Out	In-2	Out-2
Date:	6-28-18	6-29-18		
Time:	2328	2218		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MN	MN		

MN 6-29-18

MN / 6-28-18
 Analyst Initials / Date

Reviewed Online / See LIMS

DATE	0.2g	SET#	500g	SET#	INITIALS
6-10-18	0.20	40417	499.94	28659	VV
6-11-18	0.20	40417	499.93	28659	MV
6-12-18	0.20	40417	499.95	28659	MV
6-13-18	0.20	40417	499.94	28659	MV
6-14-18	0.20	40417	499.93	28659	VV
6-15-18	0.20	40417	499.93	28659	MV
6-16-18	0.20	40417	499.94	28659	MV
6-17-18	0.20	40417	499.95	28659	VV
6-18-18	0.20	40417	499.96	28659	MV
6-19-18	0.20	40417	499.95	28659	MV
6-20-18	0.20	40417	499.93	28659	MV
6-21-18	0.20	40417	499.93	28659	MV
6-22-18	0.20	40417	499.94	28659	MV
6-23-18	0.20	40417	499.93	28659	MV
6-26-18	0.20	40417	499.96	28659	MV
6-27-18	0.20	40417	499.97	28659	MV
6-28-18	0.20	40417	499.95	28659	MV
6-29-18	0.20	40417	499.95	28659	MV

Continued on Page

Read and Understood By

Signed

Date

Signed

Date

Percent Moisture Summary Report

Batch: 260928
 Date: 06/28/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
300950-001	11.19	18.55	18.20	95	5
300950-002	11.38	19.37	18.75	92	8
300950-003	11.30	18.26	17.54	90	10
300950-004	11.28	18.24	17.94	96	4
300950-005	10.95	18.63	18.17	94	6
300950-006	11.18	17.48	17.15	95	5
301003-021	11.11	17.51	16.37	82	18
301003-022	11.25	17.82	17.43	94	6
301003-023	11.22	18.63	17.61	86	14
301076-001	11.20	17.81	16.42	79	21
301076-002	11.60	17.34	16.21	80	20
301076-003	11.12	18.31	17.33	86	14
301076-004	11.31	17.97	17.07	86	14
301076-005	11.34	16.90	16.06	85	15
301076-006	10.98	18.47	17.55	88	12
301076-007	11.13	17.87	17.00	87	13
301076-008	11.32	18.51	17.53	86	14
301076-009	11.28	17.81	16.87	86	14
301076-010	11.26	17.09	16.24	85	15
301076-011	10.93	17.51	16.83	90	10
QC937615	11.21	18.75	18.14	92	8
of 300950-002			RPD:	0.4%	4.2%

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

LIMS Batch #: 260928
 Date: 6-28-18

Page: 64
 Benchbook#: BK 4277

Balance ID: B-13
 calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLK	4	11.23	∅	11.23	
300950-001 G	6	11.19	18.55	18.20	
-002 M	65	11.38	19.37	18.75	
-003 G	87	11.39	18.26	17.54	
-004	72	11.28	18.24	17.94	
-005	7	10.95	18.63	18.17	
↓ -006 ↓	80	11.18	17.48	17.15	
301003-021 D	78	11.11	17.51	16.37	
-022	89	11.25	17.82	17.43	
↓ -023	83	11.22	18.63	17.61	
301076-001	69	11.20	17.81	16.42	
-002	15	11.60	17.34	16.21	
-003	13	11.12	18.31	17.33	
-004	5	11.31	17.97	17.07	
-005	16	11.34	16.90	16.06	
-006	3	10.98	18.47	17.55	
-007	1	11.13	17.87	17.00	
-008	2	11.32	18.51	17.53	
-009	9	11.28	17.81	16.87	
-010	70	11.24	17.09	16.24	
↓ -011 ↓	8	10.93	17.51	16.83	
300950-002 M	67	11.21	18.75	18.14	SDUP
DES 6-28-18					

	In	Out	In-2	Out-2
Date:	6-28-18	6-28-18		
Time:	0110	16:26		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MN	DES		

MN 6-28-18
 Analyst Initials / Date

Reviewed Online / See LIMS

DATE	0.2 g	SET#	500.9	SET#	INITIALS
6-10-18	0.20	40417	499.94	28659	VV
6-11-18	0.20	40417	499.93	28659	MV
6-12-18	0.20	40417	499.95	28659	MV
6-13-18	0.20	40417	499.94	28659	MV
6-14-18	0.20	40417	499.93	28659	VV
6-15-18	0.20	40417	499.93	28659	MV
6-16-18	0.20	40417	499.94	28659	MV
6-17-18	0.20	40417	499.93	28659	VV
6-18-18	0.20	40417	499.96	28659	MV
6-19-18	0.20	40417	499.95	28659	MV
6-20-18	0.20	40417	499.93	28659	MV
6-21-18	0.20	40417	499.93	28659	MV
6-22-18	0.20	40417	499.94	28659	MV
6-23-18	0.20	40417	499.93	28659	MV
6-26-18	0.20	40417	499.96	28659	MV
6-27-18	0.20	40417	499.97	28659	MV
6-28-18	0.20	40417	499.95	28659	MV

Continued on Page

Read and Understood By

Signed

Date

Signed

Date



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 301104 ANALYTICAL REPORT

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Avenue
Level : III

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1SB020[3]	301104-001
BR11-1SB020[5]	301104-002
BR11-1SB020[7]	301104-003
BR11-1SB020[10]	301104-004
BR11-1SB020[15]	301104-005
BR11-1SB020[20]	301104-006
BR11-1SB020[25]	301104-007
BR11-1SB020[30]	301104-008
BR11-1SB020[35]	301104-009
BR11-1SB020[40]	301104-010
BR11-1SB020[45]	301104-011
BR11-1SB020[50]	301104-012
DUP06272018-01	301104-013
DUP06272018-02	301104-014

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Date: 07/10/2018

Mike Dahlquist
Project Manager
mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

CASE NARRATIVE

Laboratory number: 301104
Client: TRC Solutions
Project: 285830.02.01
Location: Riley Avenue
Request Date: 06/27/18
Samples Received: 06/27/18

This data package contains sample and QC results for fourteen soil samples, requested for the above referenced project on 06/27/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 260993; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 261057; this analyte was not detected in samples at or above the RL.

No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Moisture (ASTM D2216-98/CLP):

No analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 301104
 Date Received: 6-27-18

Client: TRE
 Project: Riley Avenue

Section 2: Samples received in a cooler? Yes, how many? 1 No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # A, or B

Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 6-27-18 By (print) TKY (sign) TKY

Shipping info (if applicable) _____

Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package

Date: _____ How many _____ Signature, Initials, None

Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important : Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

Samples received on ice directly from the field. Cooling process had begun

Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No

Temperature measured using Thermometer ID: _____, or IR Gun # A B

Cooler Temp (°C): #1: 2.1, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?	<input checked="" type="checkbox"/>		
If YES, what time were they transferred to freezer? <u>13:00</u>			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?			<input checked="" type="checkbox"/>
Did you change the hold time in LIMS for preserved terracores?	<input checked="" type="checkbox"/>		
Are bubbles > 6mm absent in VOA samples?			<input checked="" type="checkbox"/>
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5: YES NO N/A

Are the samples appropriately preserved? (if N/A, skip the rest of section 5)

Did you check preservatives for all bottles for each sample?

Did you document your preservative check?

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

- H2SO4 lot# _____ added to samples _____ on/at _____
- HCL lot# _____ added to samples _____ on/at _____
- HNO3 lot# _____ added to samples _____ on/at _____
- NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 6-27-18 By (print) TKY (sign) TKY
 Date Labeled 6-28-18 By (print) TKY (sign) TKY

Detections Summary for 301104

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions
 Project : 285830.02.01
 Location : Riley Avenue

Client Sample ID : BR11-1SB020[3] Laboratory Sample ID : 301104-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.024	J	0.16	0.0086	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.40	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB020[5] Laboratory Sample ID : 301104-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.013	J	0.17	0.0089	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.43	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB020[7] Laboratory Sample ID : 301104-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.014	J	0.18	0.0094	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.37	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB020[10] Laboratory Sample ID : 301104-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.016	J	0.17	0.0087	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.41	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB020[15] Laboratory Sample ID : 301104-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.012	J	0.19	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.43	J,Y	1.2	0.38	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB020[20] Laboratory Sample ID : 301104-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.013	J	0.16	0.0085	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.38	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB020[25]

Laboratory Sample ID :

301104-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.019	J	0.17	0.0089	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	4.8	Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	22		6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB020[30]

Laboratory Sample ID :

301104-008

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.021	J	0.15	0.0079	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.47	J,Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB020[35]

Laboratory Sample ID :

301104-009

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.013	J	0.15	0.0081	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035

Client Sample ID : BR11-1SB020[40]

Laboratory Sample ID :

301104-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.013	J	0.17	0.0088	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035

Client Sample ID : BR11-1SB020[45]

Laboratory Sample ID :

301104-011

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.013	J	0.16	0.0084	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.38	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	3.0	J	5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB020[50]

Laboratory Sample ID :

301104-012

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.012	J	0.17	0.0087	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035

Client Sample ID : DUP06272018-01

Laboratory Sample ID :

301104-013

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.0099	J	0.16	0.0083	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.72	J,Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	5.6	J	5.8	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : DUP06272018-02

Laboratory Sample ID : 301104-014

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.017	J	0.17	0.0090	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Laboratory Job Number 301104

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Soil

Gasoline by GC/FID (5035 Prep)			
Lab #:	301104	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/27/18
Basis:	dry	Received:	06/27/18

Field ID: BR11-1SB020[3] Moisture: 15%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-001 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.024 J	0.16	0.0086

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Field ID: BR11-1SB020[5] Moisture: 15%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-002 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.013 J	0.17	0.0089

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Field ID: BR11-1SB020[7] Moisture: 16%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-003 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.014 J	0.18	0.0094

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

Field ID: BR11-1SB020[10] Moisture: 14%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-004 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.016 J	0.17	0.0087

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

J= Estimated value
 RL= Reporting Limit
 MDL= Method Detection Limit
 Page 1 of 4

Gasoline by GC/FID (5035 Prep)			
Lab #:	301104	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/27/18
Basis:	dry	Received:	06/27/18

Field ID: BR11-1SB020[15] Moisture: 18%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-005 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.012 J	0.19	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

Field ID: BR11-1SB020[20] Moisture: 15%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-006 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.013 J	0.16	0.0085

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

Field ID: BR11-1SB020[25] Moisture: 17%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-007 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.019 J	0.17	0.0089

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

Field ID: BR11-1SB020[30] Moisture: 13%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-008 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.021 J	0.15	0.0079

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

J= Estimated value
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301104	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/27/18
Basis:	dry	Received:	06/27/18

Field ID: BR11-1SB020[35] Moisture: 15%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-009 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.013 J	0.15	0.0081

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-134

Field ID: BR11-1SB020[40] Moisture: 14%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-010 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.013 J	0.17	0.0088

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-134

Field ID: BR11-1SB020[45] Moisture: 15%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-011 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.013 J	0.16	0.0084

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

Field ID: BR11-1SB020[50] Moisture: 7%
 Type: SAMPLE Batch#: 260993
 Lab ID: 301104-012 Analyzed: 06/30/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.012 J	0.17	0.0087

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	64-134

J= Estimated value
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301104	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	06/27/18
Basis:	dry	Received:	06/27/18

Field ID:	DUP06272018-01	Moisture:	13%
Type:	SAMPLE	Batch#:	261057
Lab ID:	301104-013	Analyzed:	07/03/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.0099 J	0.16	0.0083

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-134

Field ID:	DUP06272018-02	Moisture:	13%
Type:	SAMPLE	Batch#:	261057
Lab ID:	301104-014	Analyzed:	07/03/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.017 J	0.17	0.0090

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-134

Type:	BLANK	Batch#:	260993
Lab ID:	QC937854	Analyzed:	06/29/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.049 J	0.20	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	64-134

Type:	BLANK	Batch#:	261057
Lab ID:	QC938114	Analyzed:	07/02/18

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.20	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	88	64-134

J= Estimated value
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301104	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC937851	Batch#:	260993
Matrix:	Soil	Analyzed:	06/29/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.134	113	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301104	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	261057
Units:	mg/Kg	Analyzed:	07/02/18
Diln Fac:	1.000		

Type: BS Lab ID: QC938112

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.050	105	80-120

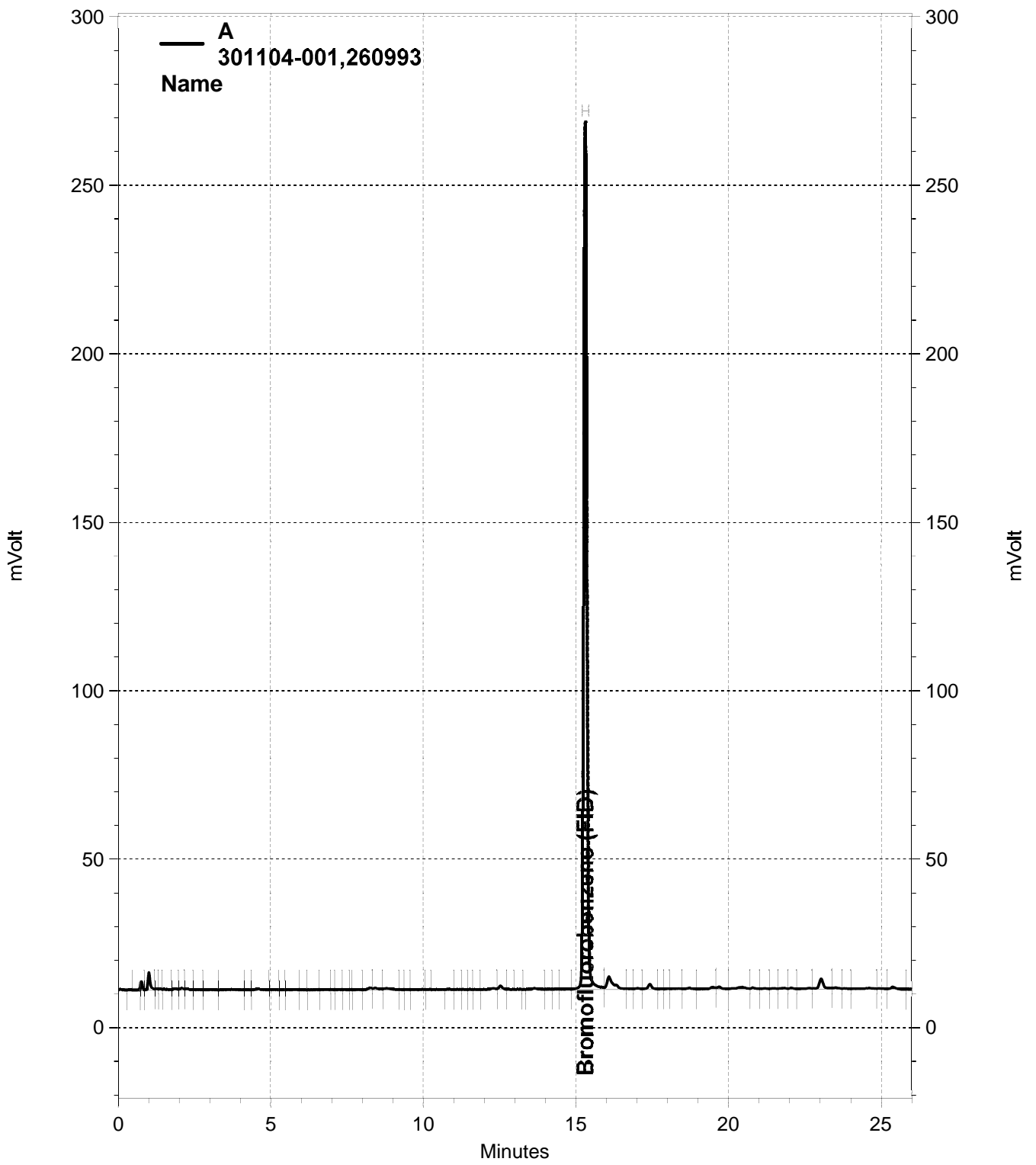
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

Type: BSD Lab ID: QC938113

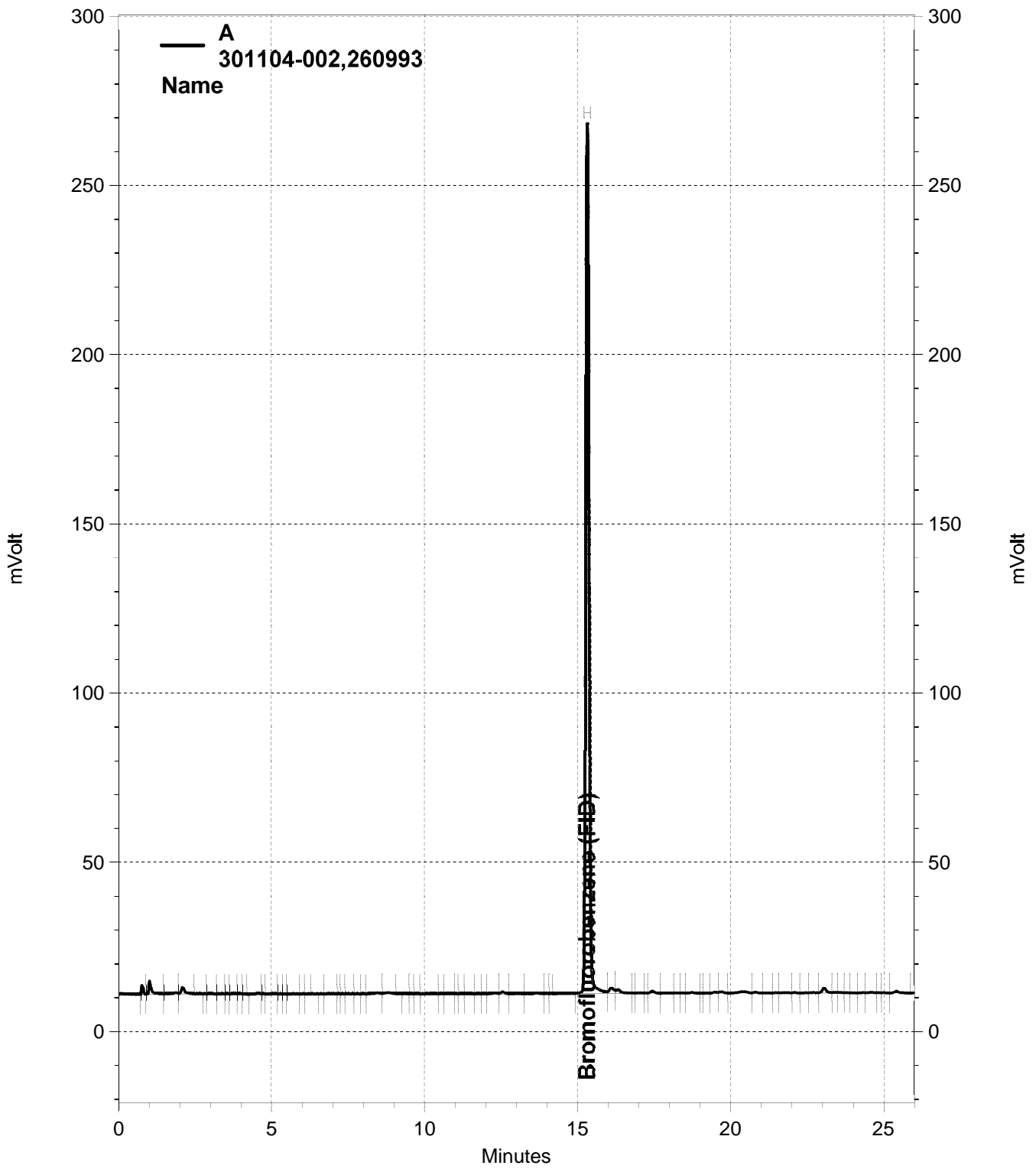
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.078	108	80-120	3	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	64-134

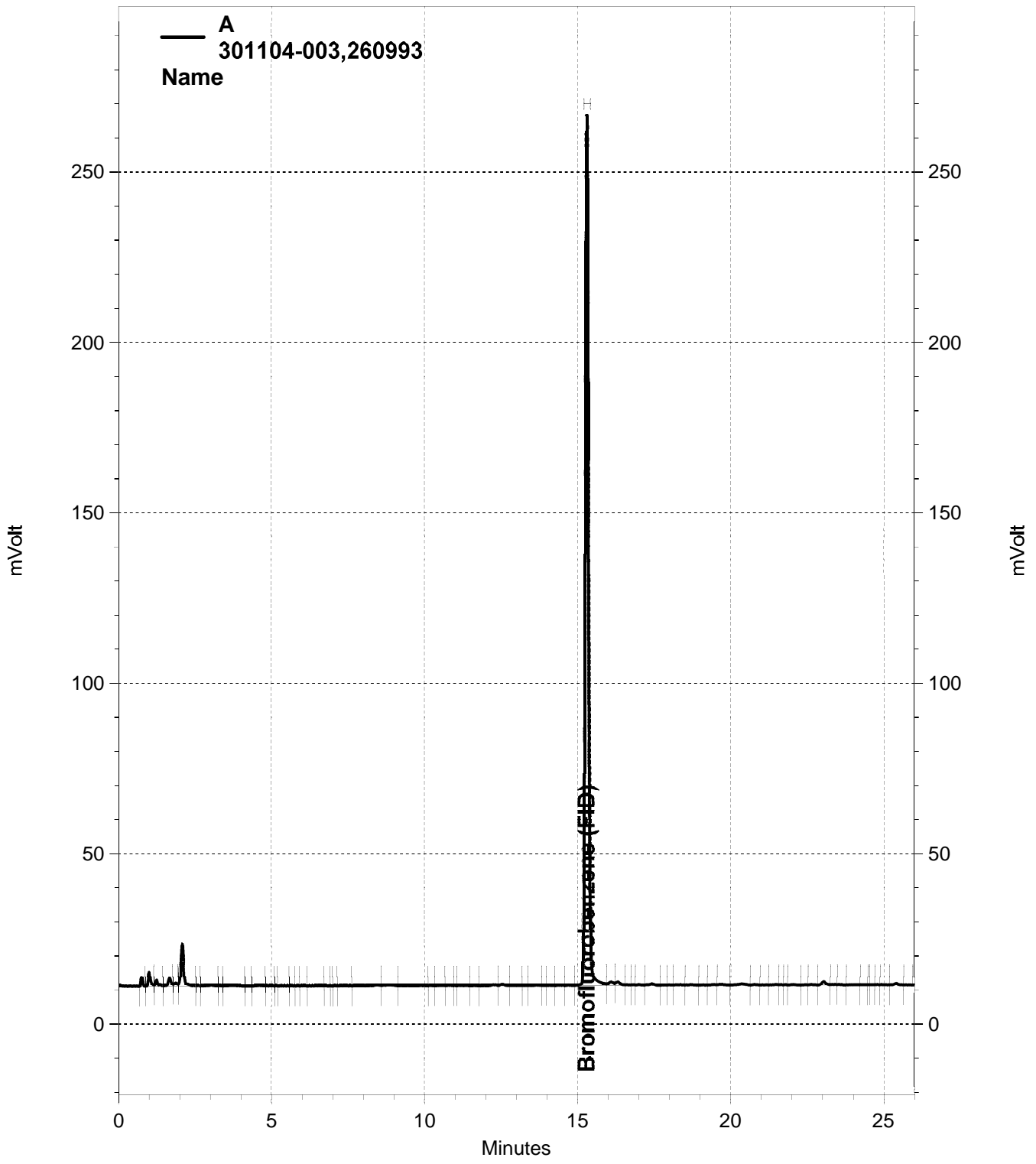
RPD= Relative Percent Difference



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-030, A

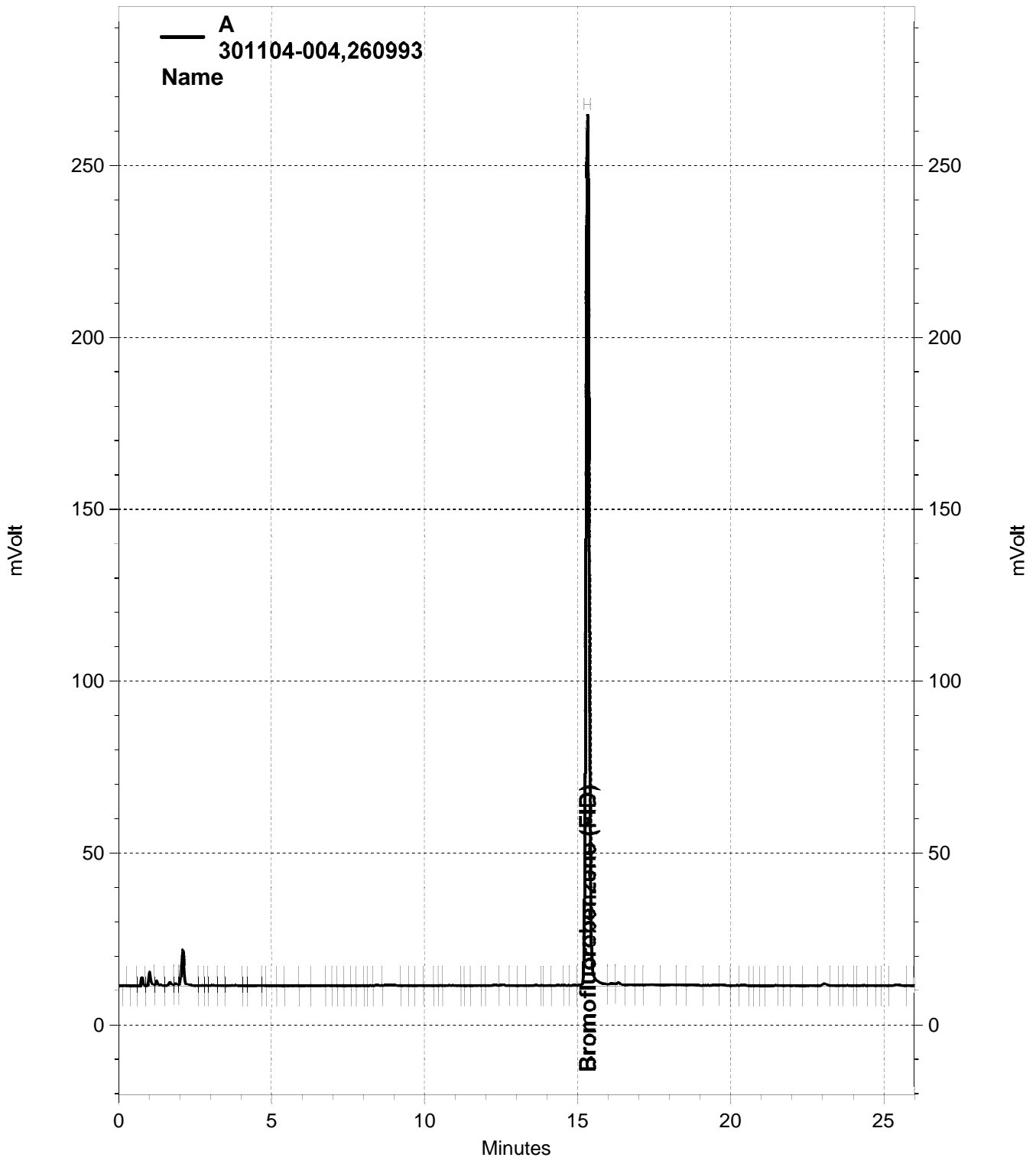


— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-031, A



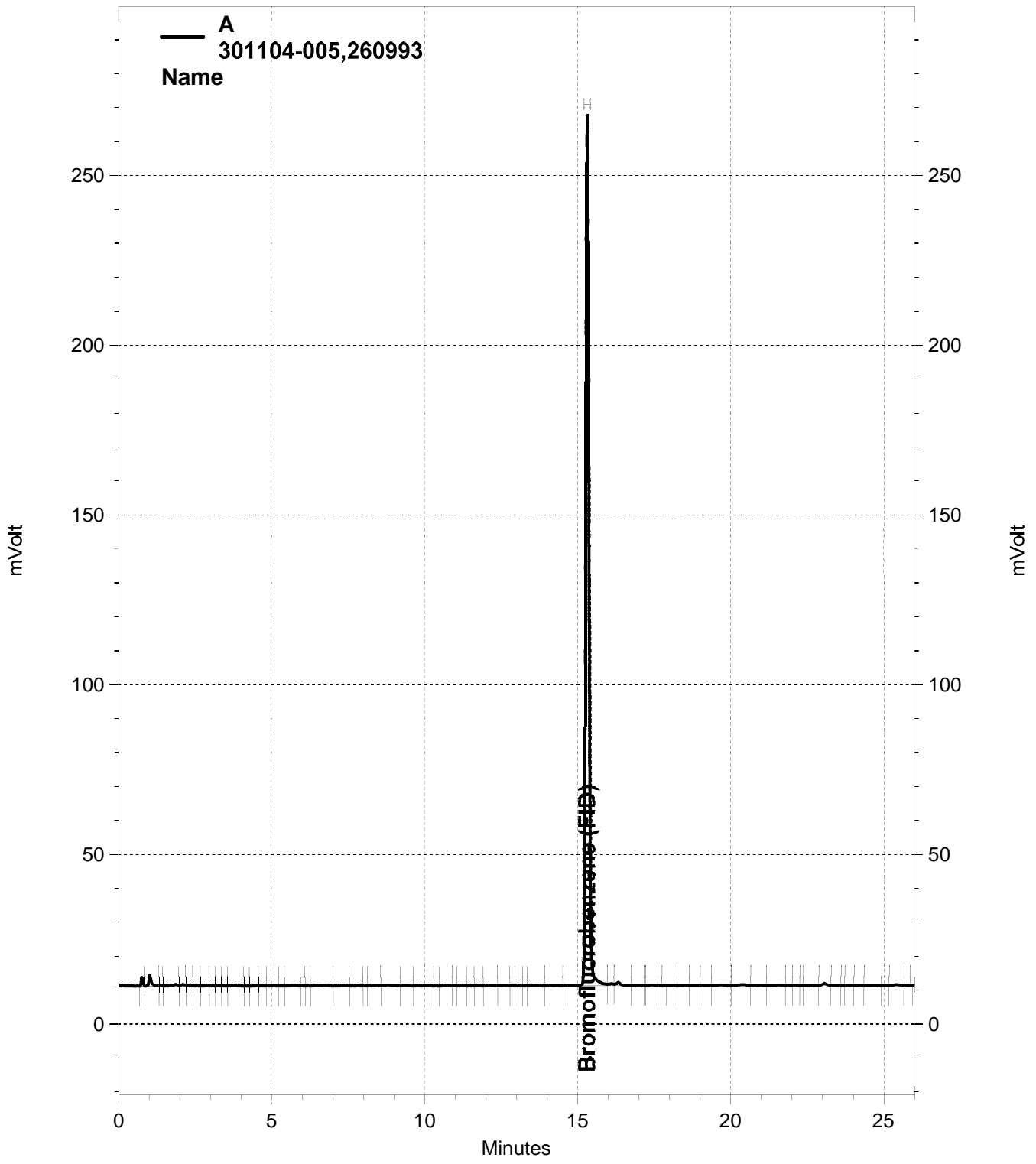
— A
301104-003,260993
Name

— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-032, A

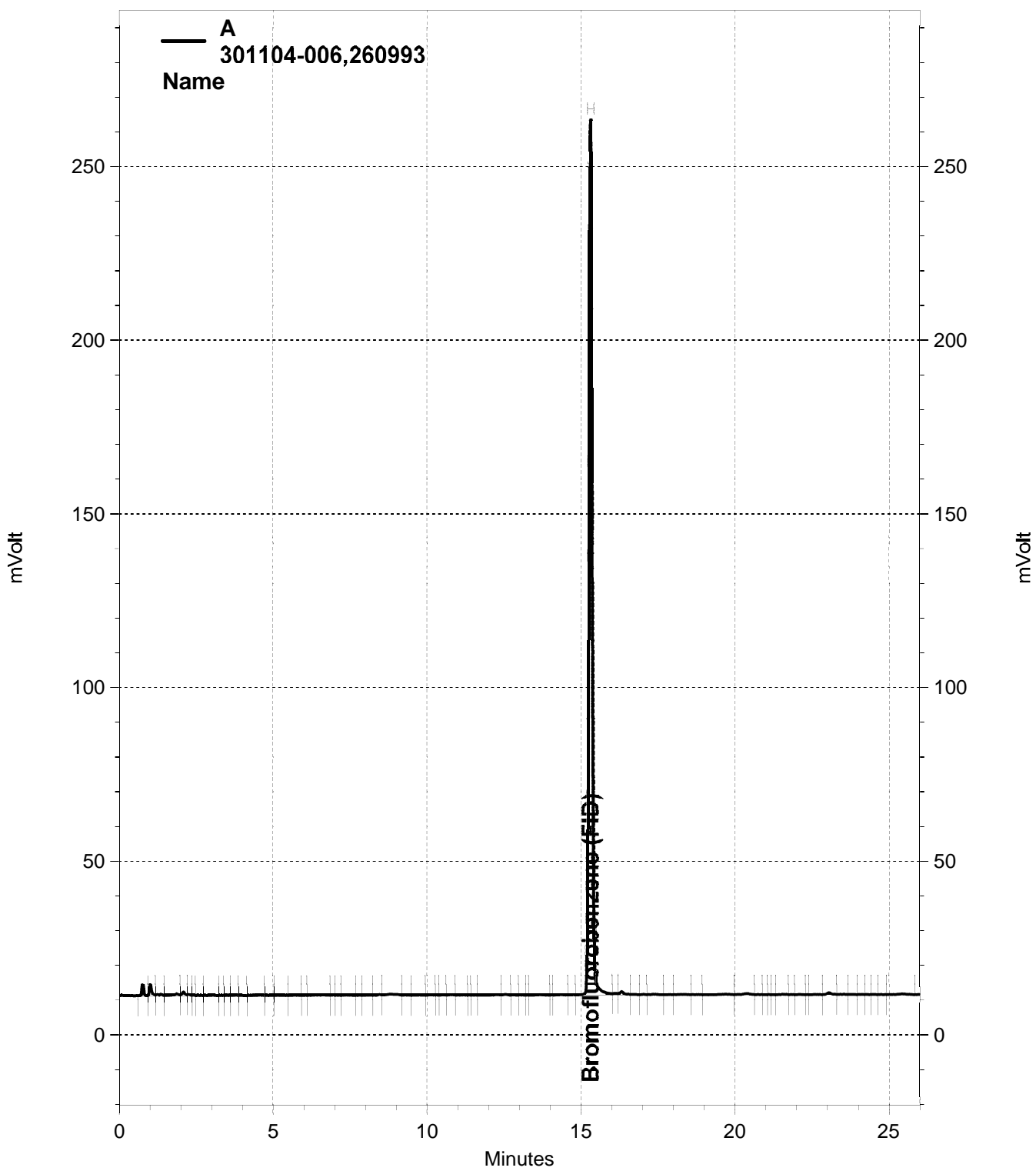


A
301104-004,260993
Name

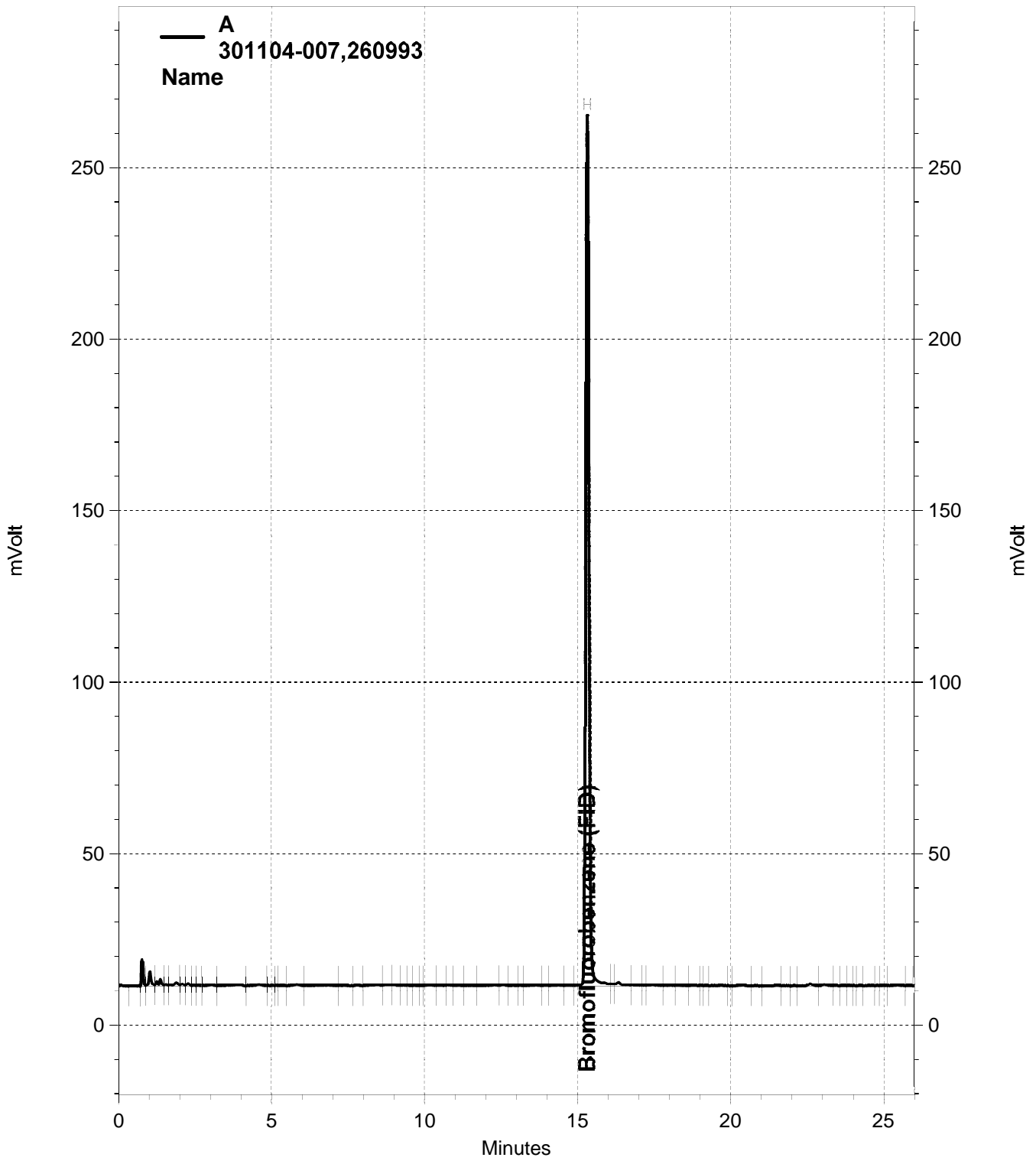
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-033, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-034, A

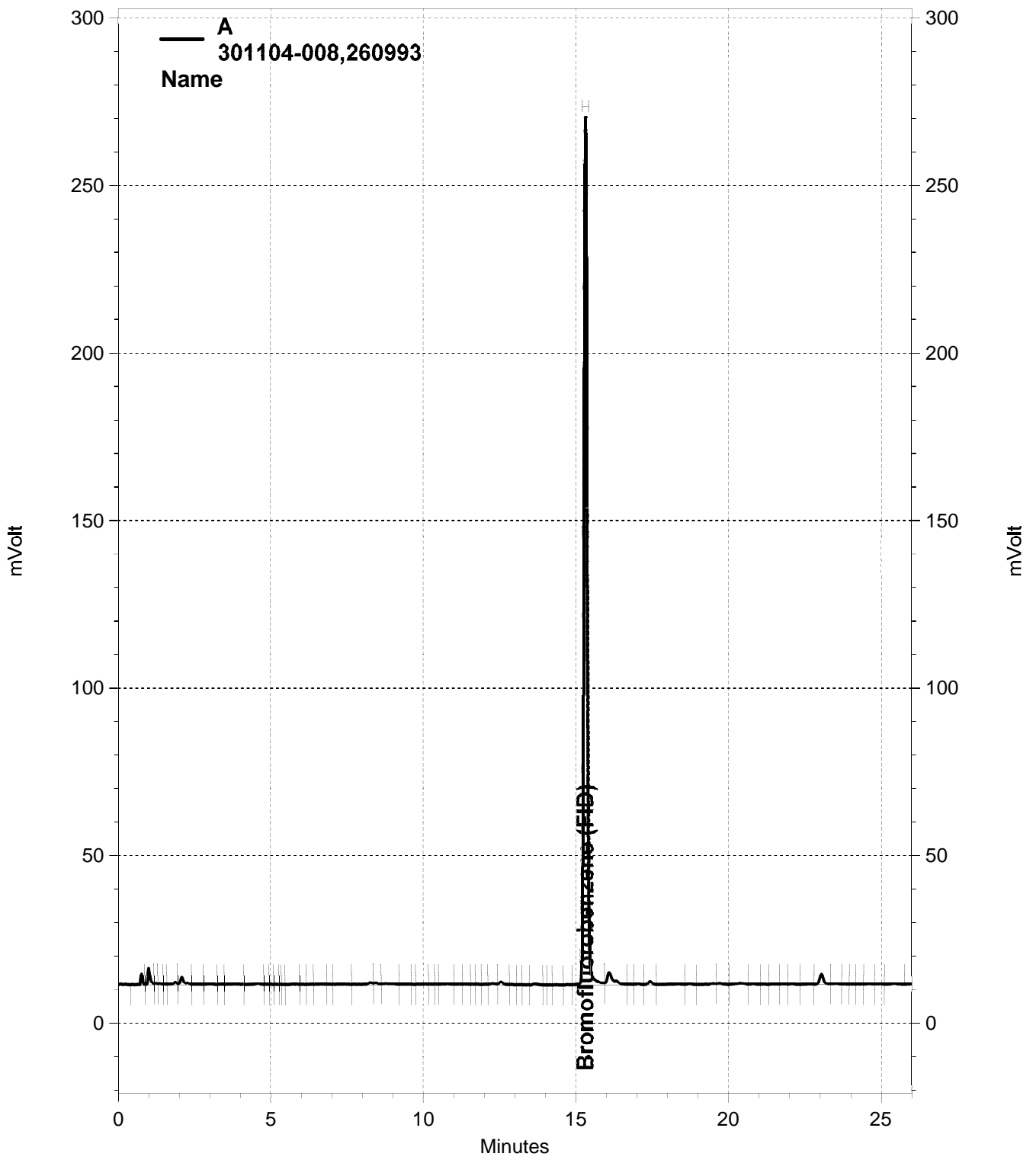


— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-035, A

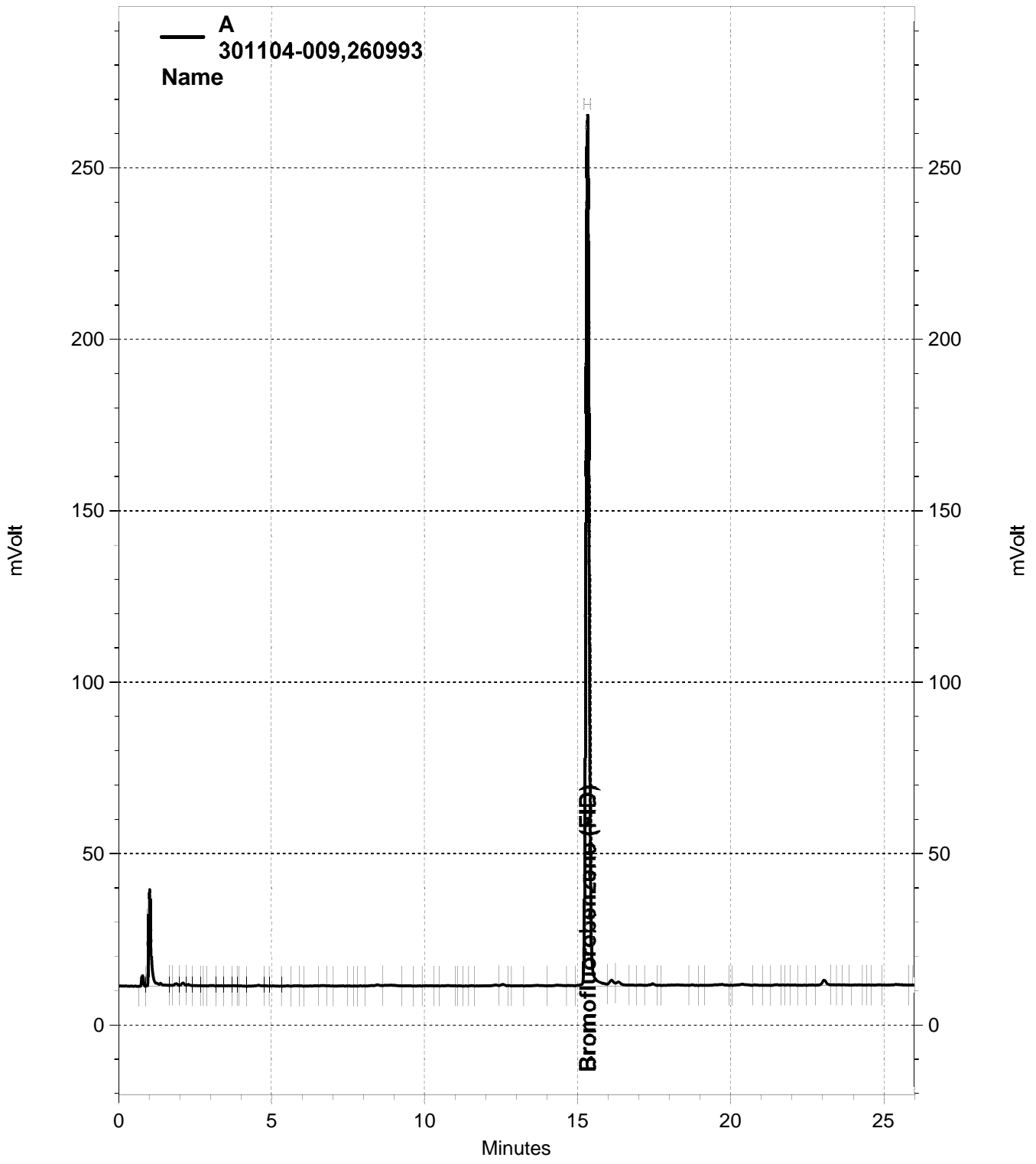


A
301104-007,260993
Name

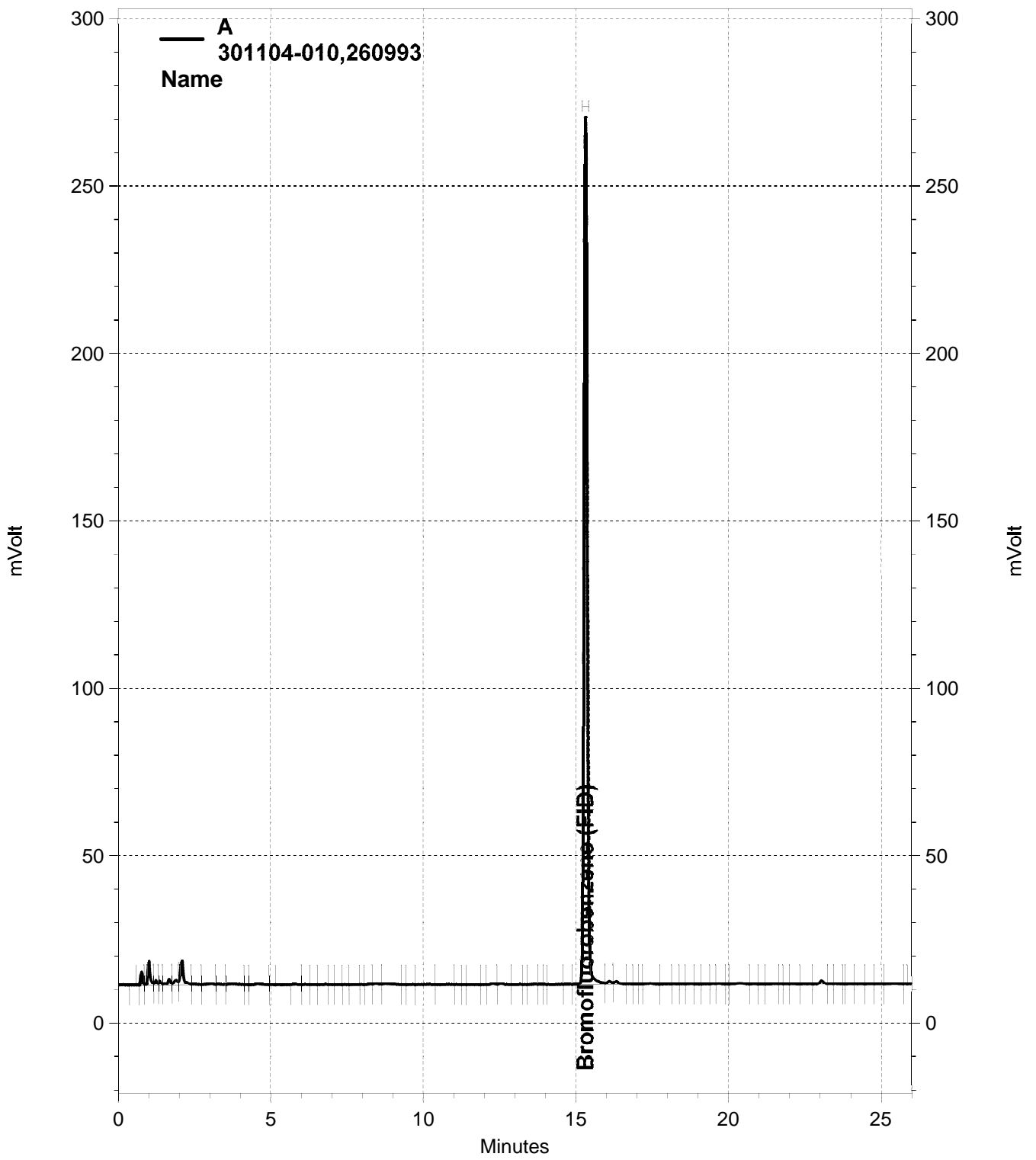
\\Lims\gdrive\ezchrom\Projects\GC07\Data\180-036, A



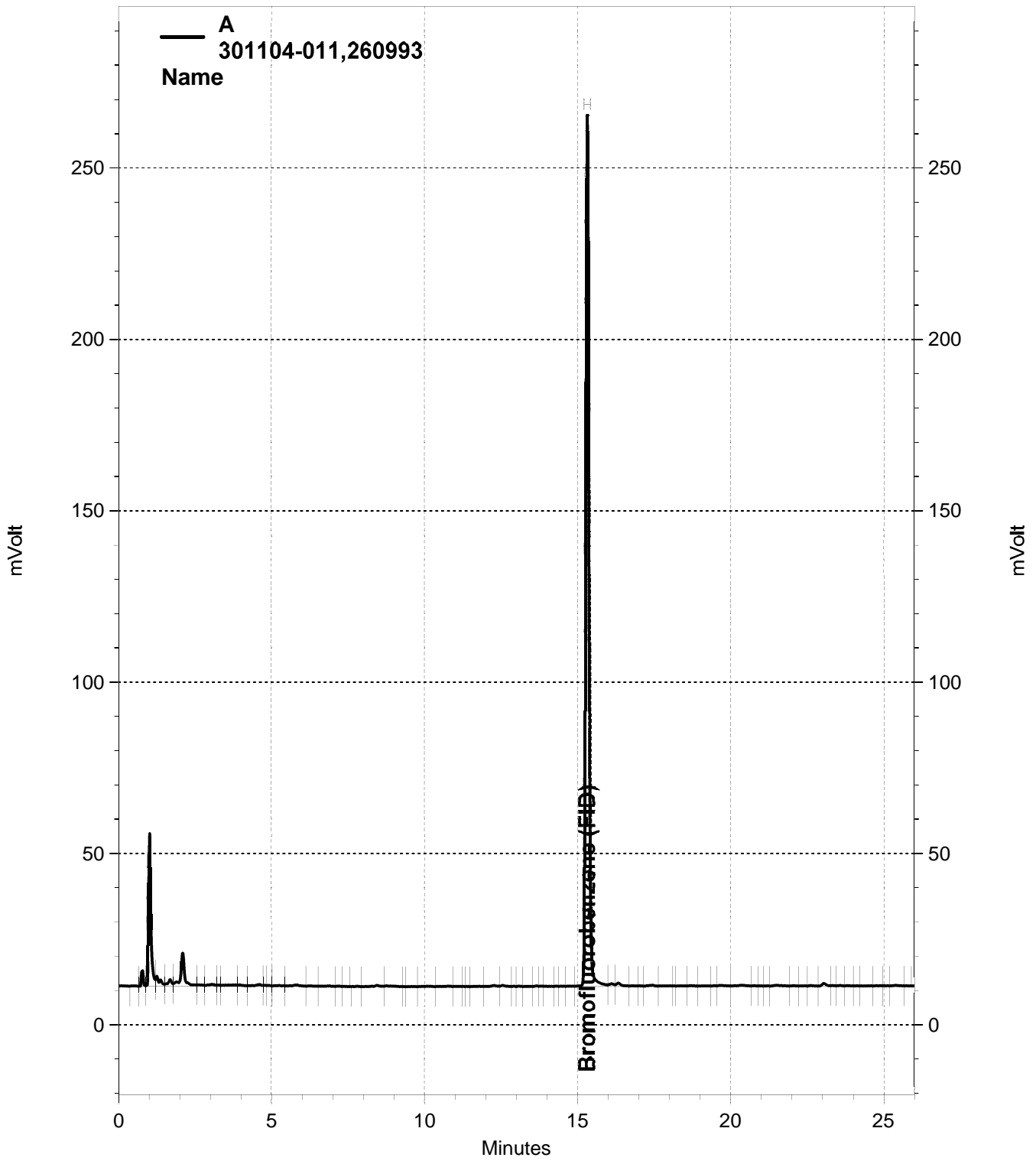
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-042, A



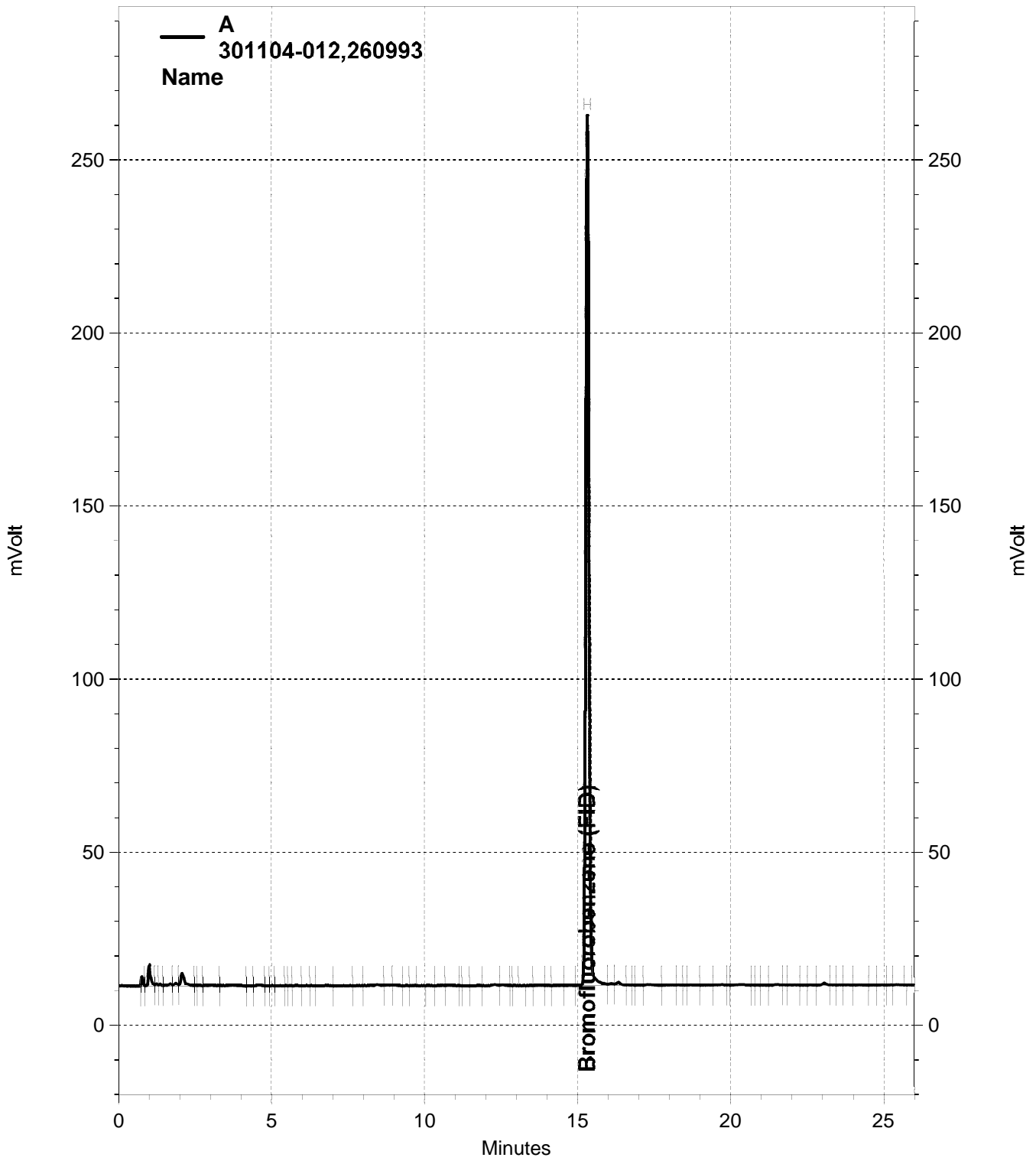
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-043, A



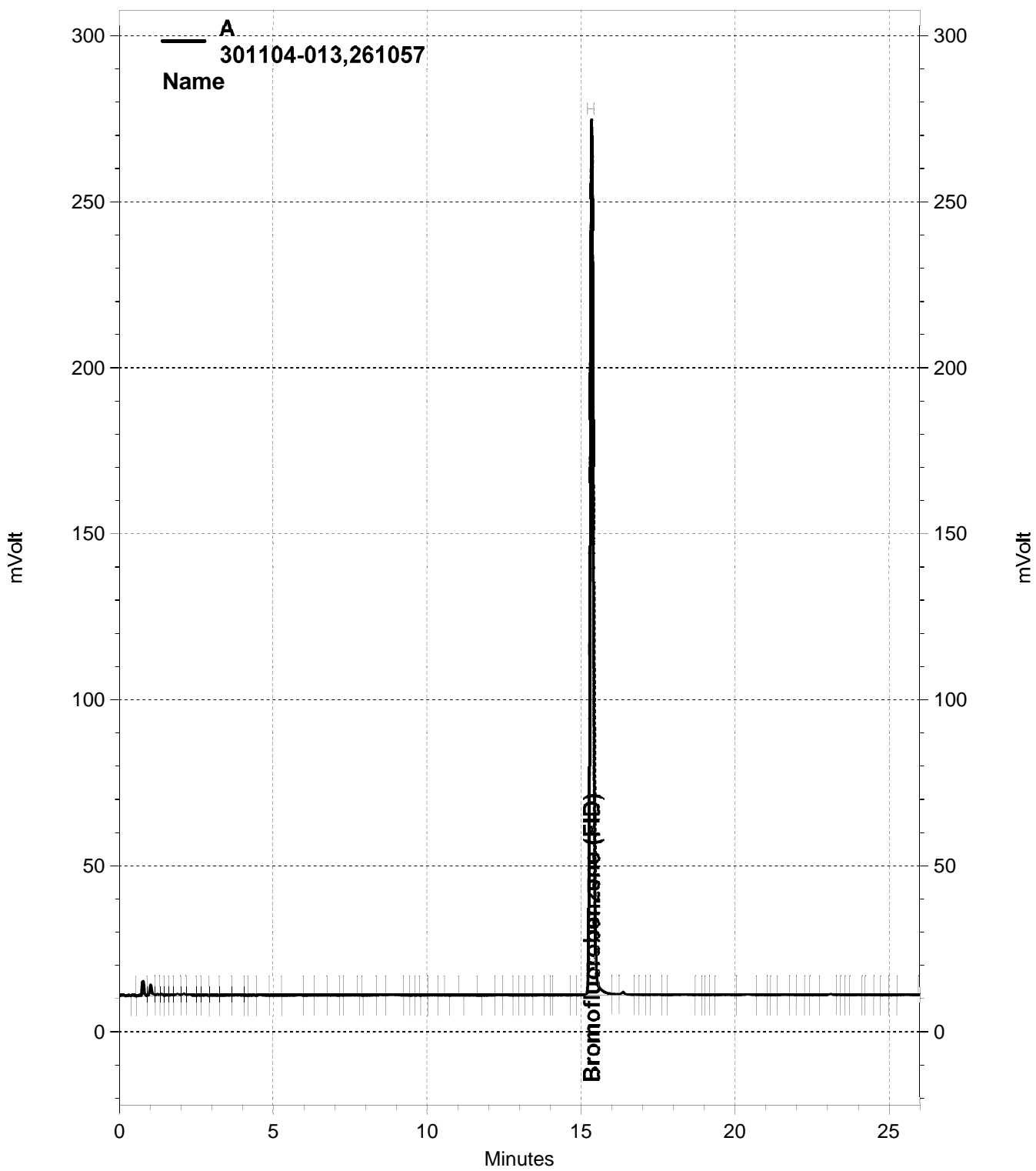
\\Lims\gdrive\ezchrom\Projects\GC07\Data\180-044, A



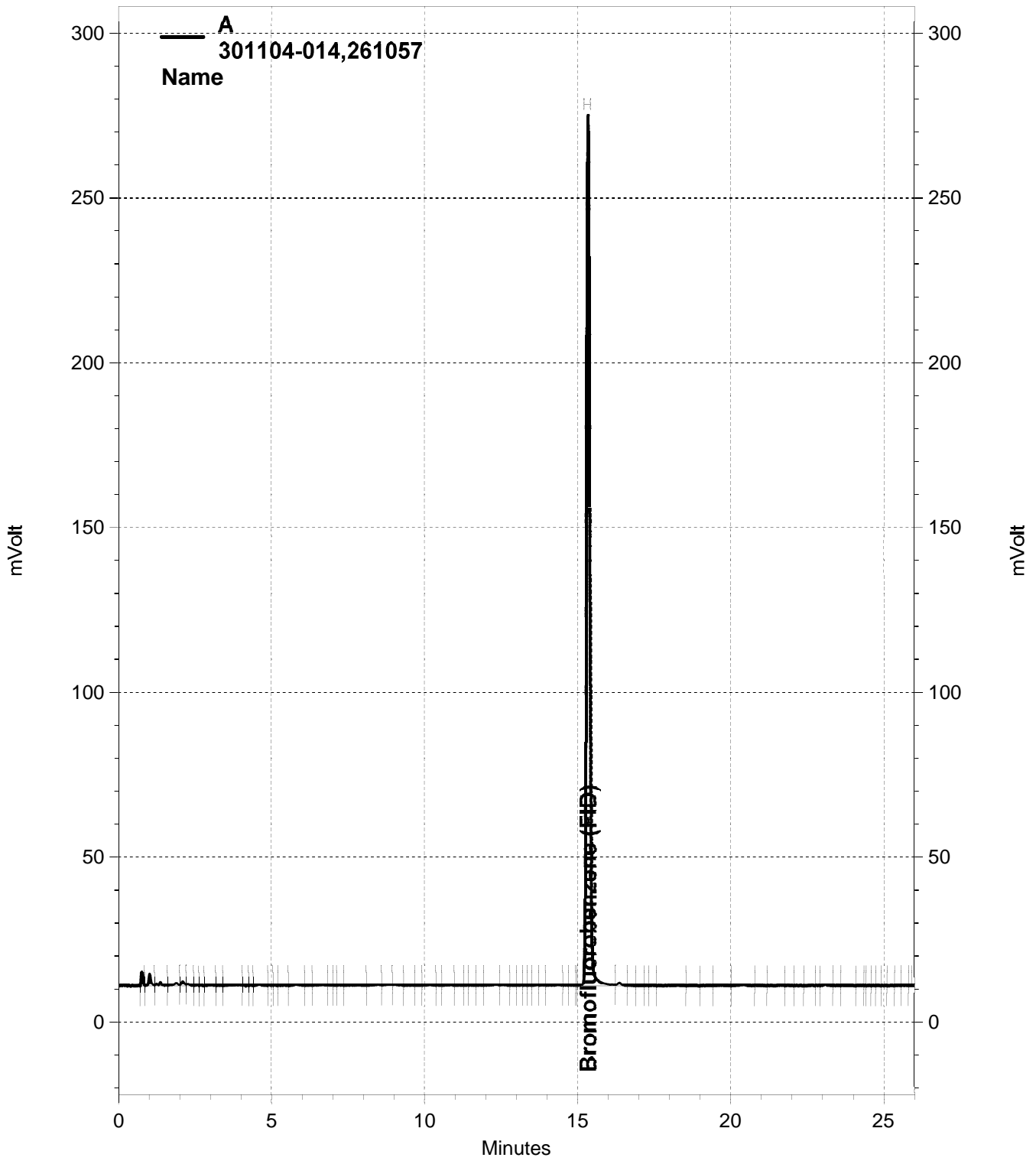
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-045, A



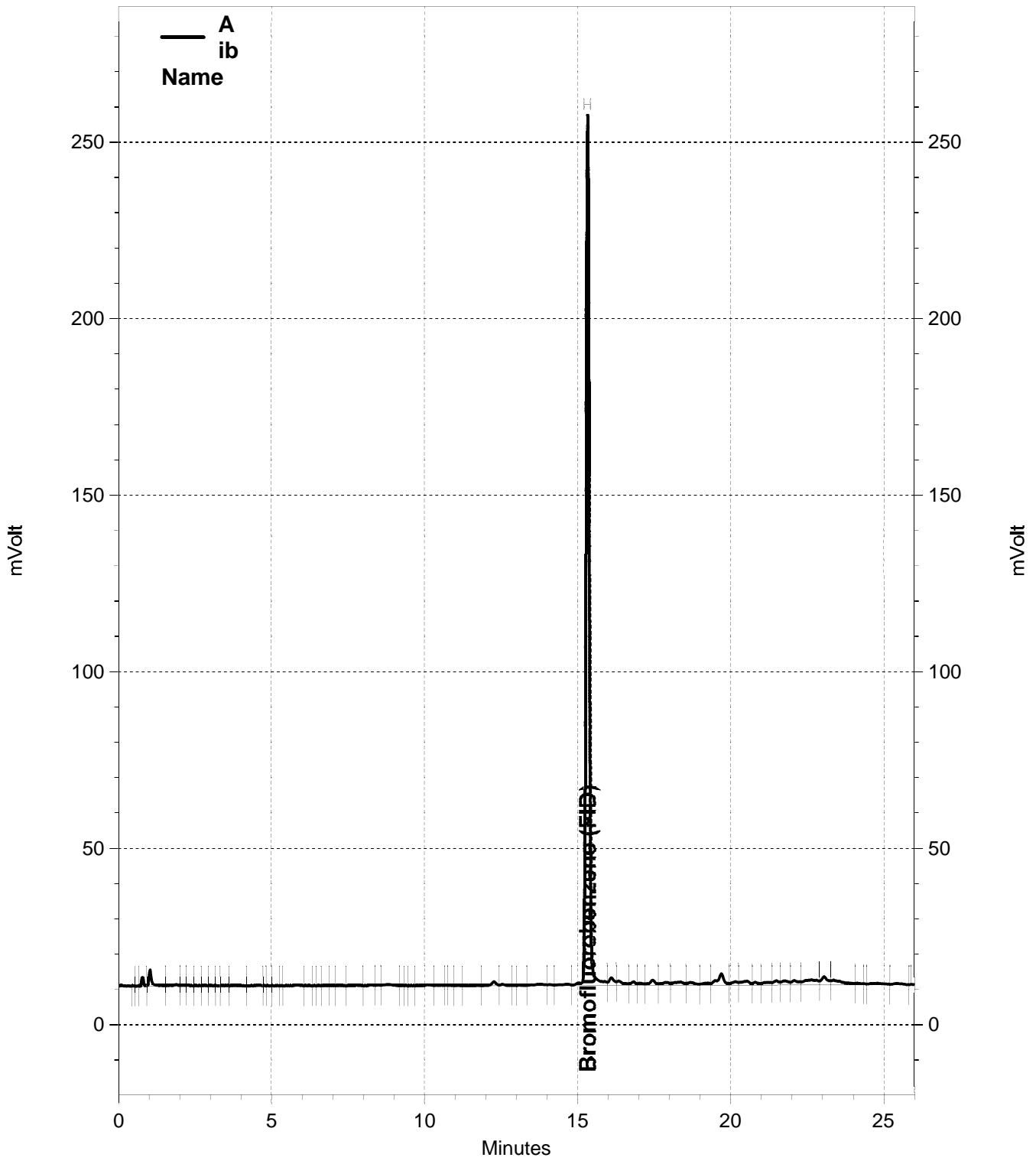
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-046, A



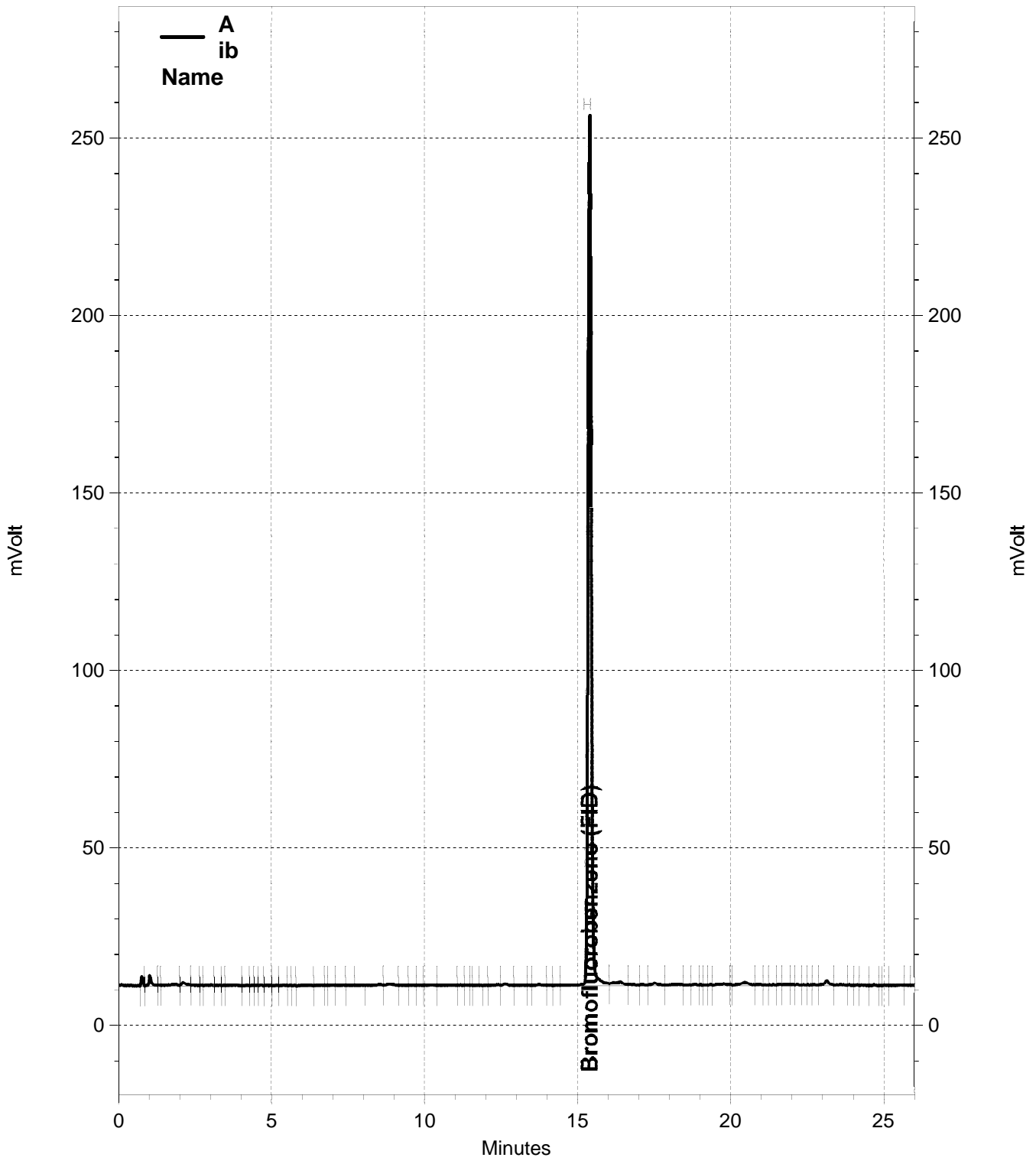
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-026, A



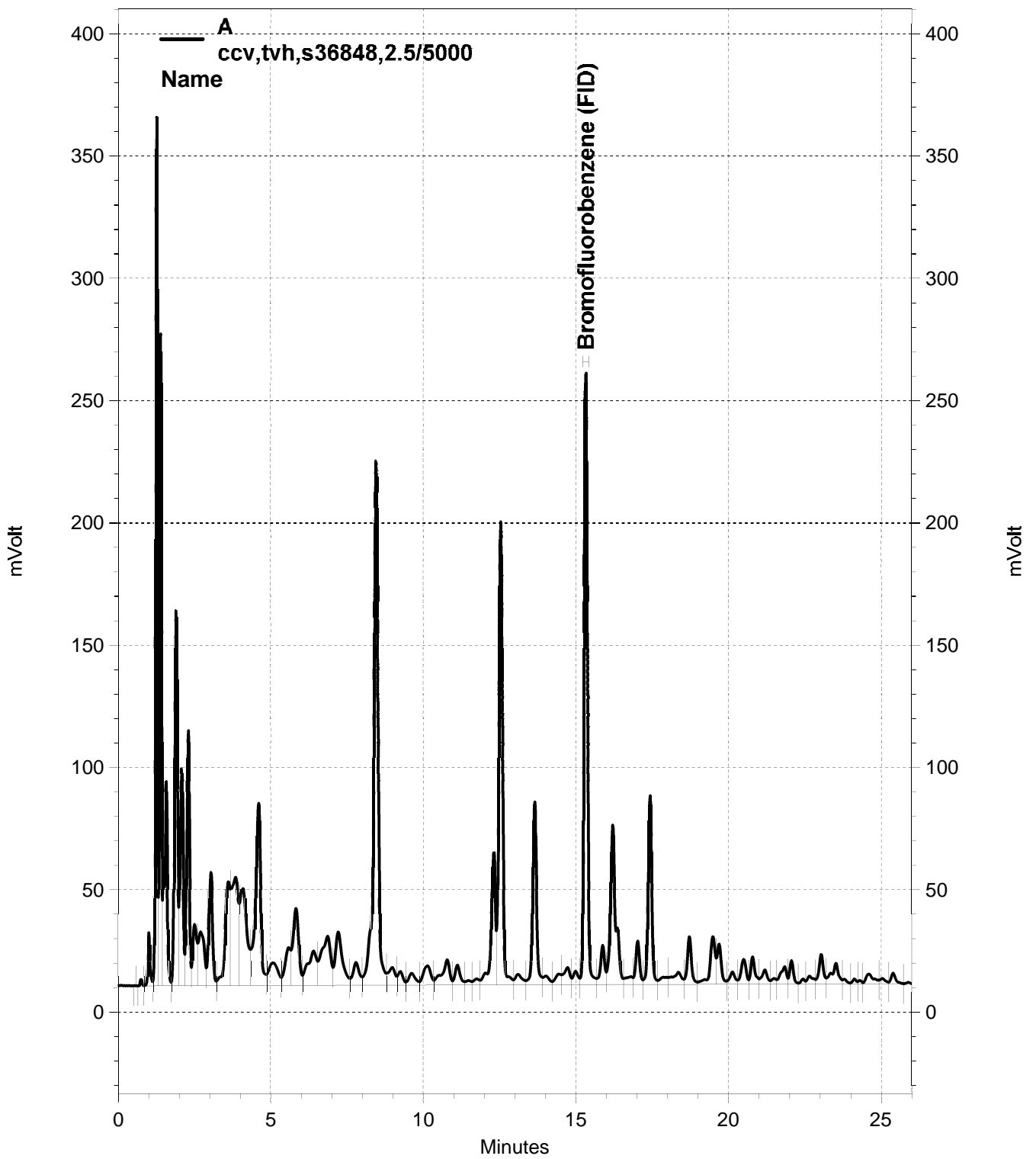
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-027, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-008, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\183-005, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\180-002, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 301104 GCVOA Soil: EPA 8015B

Inst : GC07
 Calnum : 328184879001
 Units : ng

Name : TVH_129
 Date : 08-MAY-2018 21:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	128_017	328184879017	TVH_14	08-MAY-2018 21:46	S36893 (1000X), S36233 (5000X)
L2	128_018	328184879018	TVH_15	08-MAY-2018 22:25	S36892 (1000X), S36233 (5000X)
L3	128_019	328184879019	TVH_16	08-MAY-2018 23:03	S36891 (1000X), S36233 (5000X)
L4	128_020	328184879020	TVH_17	08-MAY-2018 23:42	S36890 (2000X), S36233 (5000X)
L5	128_021	328184879021	TVH_18	09-MAY-2018 00:20	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2551.5	2151.4	1868.7	2079.4	2113.6	AVRG		4.64E-4		2152.9	12	0.995	20	
Bromofluorobenzene (FID)	A	2209.5	2170.3	2197.1	2287.3	2435.2	AVRG		4.43E-4		2259.9	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	19	2500.0	0	10000	-13	25000	-3	50000	-2
Bromofluorobenzene (FID)	A	900.00	-2	900.00	-4	900.00	-3	900.00	1	900.00	8

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301104 GCVOA Soil
EPA 8015B

Inst : GC07
Calnum : 328184879001

Name : TVH_129
Cal Date : 08-MAY-2018

ICV 328184879024 (128_024 09-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8973	ng	-10	15	

Analyst: CJN

Date: 05/09/18

Reviewer: EAH

Date: 05/09/18

ENTHALPY SPIKE USER REPORT FOR 301104 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : QC937851 IDF : 1.0
 Seqnum : 328259800002.5 File : 180_002 Time : 29-JUN-2018 10:39
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2152.9	2440.7	5000	5668	ng	13	15	u
Bromofluorobenzene (FID)	A	2259.9	2065.9	900.0	822.8	ng	-9	15	u

Analyst: CJN Date: 07/05/18 Reviewer: TKM Date: 07/09/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : MINERAL IDF : 1.0
Seqnum : 328259800007 File : 180_007 Time : 29-JUN-2018 13:50
Cal : 328184879001 Caldate : 08-MAY-2018
Standards: S37507 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Bromofluorobenzene (FID)	A	2259.9	2400.4	900.0	956.0	ng	6	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328259800015 File : 180_015 Time : 29-JUN-2018 19:35
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2265.7	10000	10520	ng	5	15	
Bromofluorobenzene (FID)	A	2259.9	2142.0	900.0	853.1	ng	-5	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328259800028 File : 180_028 Time : 30-JUN-2018 03:52
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2081.0	15000	14500	ng	-3	15	
Bromofluorobenzene (FID)	A	2259.9	2112.5	900.0	841.3	ng	-7	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328259800040 File : 180_040 Time : 30-JUN-2018 11:30
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2039.5	10000	9473	ng	-5	15	
Bromofluorobenzene (FID)	A	2259.9	2087.6	900.0	831.4	ng	-8	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328259800047 File : 180_047 Time : 30-JUN-2018 15:58
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	1990.7	15000	13870	ng	-8	15	
Bromofluorobenzene (FID)	A	2259.9	2130.4	900.0	848.4	ng	-6	15	

Analyst: JM2 Date: 07/02/18 Reviewer: TKM Date: 07/02/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328264299016 File : 183_016 Time : 02-JUL-2018 22:41
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2194.1	10000	10190	ng	2	15	
Bromofluorobenzene (FID)	A	2259.9	2117.7	900.0	843.4	ng	-6	15	

Analyst: JM2 Date: 07/03/18 Reviewer: TKM Date: 07/03/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCVOA Soil
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328264299028 File : 183_028 Time : 03-JUL-2018 06:20
 Cal : 328184879001 Caldate : 08-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2152.9	2080.5	15000	14500	ng	-3	15	
Bromofluorobenzene (FID)	A	2259.9	2167.5	900.0	863.2	ng	-4	15	

Analyst: JM2 Date: 07/03/18 Reviewer: TKM Date: 07/03/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328184879

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/08/18 09:19
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	128_001	X	CMARKER			05/08/18 09:19	1.0	1 2	
002	128_002	CCV	TVH			05/08/18 09:58	1.0	3 2	
003	128_003	CCV/LCS	QC931207	Water	259308	05/08/18 10:36	1.0	4 2	
004	128_004	CCV	TVH			05/08/18 11:15	1.0	3 2	
005	128_005	CCV	BTXE			05/08/18 11:53	1.0	4 2	
006	128_006	BLANK	QC931206	Water	259308	05/08/18 12:31	1.0	2	
007	128_007	MSS	299300-001	Water	259308	05/08/18 15:18	1.0	2	headspace > 1 mL
008	128_008	CCV	BTXE			05/08/18 15:57	1.0	4 2	
011	128_011	IB				05/08/18 17:57	1.0	2	
012	128_012	IB				05/08/18 18:35	1.0	2	
013	128_013	IB				05/08/18 19:13	1.0	2	
014	128_014	IB				05/08/18 19:51	1.0	2	
015	128_015	IB				05/08/18 20:30	1.0	2	
016	128_016	IB	CALIB			05/08/18 21:08	1.0	2	
017	128_017	ICAL	TVH_14			05/08/18 21:46	1.0	5 2	
018	128_018	ICAL	TVH_15			05/08/18 22:25	1.0	6 2	
019	128_019	ICAL	TVH_16			05/08/18 23:03	1.0	7 2	
020	128_020	ICAL	TVH_17			05/08/18 23:42	1.0	8 2	
021	128_021	ICAL	TVH_18			05/09/18 00:20	1.0	8 2	
022	128_022	IB				05/09/18 00:58	1.0	2	
023	128_023	X	ICV			05/09/18 01:37	1.0	9 2	
024	128_024	ICV	TVH			05/09/18 02:15	1.0	9 2	
025	128_025	CMARKER				05/09/18 02:54	1.0	1 2	

Reviewed by: EAH Date: 06/19/18

Standards used: 1=S35319 2=S36233 3=S36103 4=S36185 5=S36893 6=S36892 7=S36891 8=S36890 9=S36894

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328259800

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 06/29/18 10:00
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	180_001	X	CMARKER			06/29/18 10:00	1.0	1 2	
002	180_002	CCV/LCS	QC937851	Soil	260993	06/29/18 10:39	1.0	3 2	
003	180_003	CCV	BTXE			06/29/18 11:17	1.0	4 2	
004	180_004	ICAL	MINERAL			06/29/18 11:55	1.0	5 2	
005	180_005	LCS	QC937879	Water	261000	06/29/18 12:33	1.0	3 2	
006	180_006	CCV	BTXE			06/29/18 13:12	1.0	4 2	
007	180_007	CCV	MINERAL			06/29/18 13:50	1.0	5 2	
008	180_008	BLANK	QC937854	Soil	260993	06/29/18 14:28	1.0	2	
009	180_009	BLANK	QC937882	Water	261000	06/29/18 15:06	1.0	2	
010	180_010	SAMPLE	300451-005	Water	261000	06/29/18 16:25	1.0	2	sh , headspace > 1 mL
011	180_011	MSS	300451-001	Water	261000	06/29/18 17:03	1.0	2	sh , headspace > 1 mL
012	180_012	SAMPLE	300451-002	Water	261000	06/29/18 17:42	1.0	2	sh , headspace > 1 mL, 1:MTBE=1500
013	180_013	SAMPLE	300451-003	Water	261000	06/29/18 18:20	1.0	2	sh , headspace > 1 mL
014	180_014	SAMPLE	300451-004	Water	261000	06/29/18 18:58	50.0	2	sh , headspace > 1 mL
015	180_015	CCV	TVH			06/29/18 19:35	1.0	3 2	
016	180_016	CCV	MINERAL			06/29/18 20:14	1.0	5 2	
017	180_017	X	CMARKER			06/29/18 20:51	1.0	1 2	
018	180_018	SAMPLE	301076-021	Soil	260993	06/29/18 21:29	1.0	2	
019	180_019	SAMPLE	301076-022	Soil	260993	06/29/18 22:08	1.0	2	
020	180_020	SAMPLE	301076-023	Soil	260993	06/29/18 22:46	1.0	2	
021	180_021	SAMPLE	301140-005	Soil	260993	06/29/18 23:24	1.0	2	
022	180_022	MSS	301080-001	Soil	260993	06/30/18 00:03	1.0	2	
023	180_023	SAMPLE	301080-002	Soil	260993	06/30/18 00:41	1.0	2	
024	180_024	SAMPLE	301080-004	Soil	260993	06/30/18 01:19	1.0	2	
025	180_025	SAMPLE	301080-005	Soil	260993	06/30/18 01:57	1.0	2	
026	180_026	MS	QC937880	Water	261000	06/30/18 02:36	1.0	3 2	
027	180_027	MSD	QC937881	Water	261000	06/30/18 03:14	1.0	3 2	
028	180_028	CCV	TVH			06/30/18 03:52	1.0	3 2	
029	180_029	X	CMARKER			06/30/18 04:30	1.0	1 2	
030	180_030	SAMPLE	301104-001	Soil	260993	06/30/18 05:08	1.0	2	
031	180_031	SAMPLE	301104-002	Soil	260993	06/30/18 05:46	1.0	2	
032	180_032	SAMPLE	301104-003	Soil	260993	06/30/18 06:25	1.0	2	
033	180_033	SAMPLE	301104-004	Soil	260993	06/30/18 07:03	1.0	2	
034	180_034	SAMPLE	301104-005	Soil	260993	06/30/18 07:41	1.0	2	
035	180_035	SAMPLE	301104-006	Soil	260993	06/30/18 08:19	1.0	2	
036	180_036	SAMPLE	301104-007	Soil	260993	06/30/18 08:58	1.0	2	
037	180_037	SAMPLE	301137-003	Soil	260993	06/30/18 09:36	1.0	2	
038	180_038	MS	QC937852	Soil	260993	06/30/18 10:14	1.0	3 2	
039	180_039	MSD	QC937853	Soil	260993	06/30/18 10:52	1.0	3 2	
040	180_040	CCV	TVH			06/30/18 11:30	1.0	3 2	
041	180_041	X	CMARKER			06/30/18 12:09	1.0	1 2	
042	180_042	SAMPLE	301104-008	Soil	260993	06/30/18 12:47	1.0	2	
043	180_043	SAMPLE	301104-009	Soil	260993	06/30/18 13:25	1.0	2	
044	180_044	SAMPLE	301104-010	Soil	260993	06/30/18 14:03	1.0	2	
045	180_045	SAMPLE	301104-011	Soil	260993	06/30/18 14:41	1.0	2	
046	180_046	SAMPLE	301104-012	Soil	260993	06/30/18 15:20	1.0	2	
047	180_047	CCV	TVH			06/30/18 15:58	1.0	3 2	
048	180_048	X	CMARKER			06/30/18 16:36	1.0	1 2	

JM2 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 48.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328259800

Instrument : GC07
Method : EPA 8015B, EPA 8021B

Begun : 06/29/18 10:00
SOP Version : TVH_BTXE_rv23

Reviewed by: JM2 Date: 07/02/18

Standards used: 1=S35319 2=S37192 3=S36848 4=S36185 5=S37507

Flags used: sh-out of sample hold

Page 2 of 2

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328264299

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 07/02/18 12:59
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	183_001	X	CMARKER			07/02/18 12:59	1.0	1 2
002	183_002	CCV/BS	QC938112	Soil	261057	07/02/18 13:37	1.0	3 2
003	183_003	BSD	QC938113	Soil	261057	07/02/18 14:16	1.0	3 2
004	183_004	IB				07/02/18 14:53	1.0	2
005	183_005	BLANK	QC938114	Soil	261057	07/02/18 15:32	1.0	2
006	183_006	SAMPLE	301076-001	Soil	261057	07/02/18 16:19	1.0	2
007	183_007	SAMPLE	301076-002	Soil	261057	07/02/18 16:57	1.0	2
008	183_008	SAMPLE	301076-003	Soil	261057	07/02/18 17:35	1.0	2
009	183_009	SAMPLE	301076-004	Soil	261057	07/02/18 18:14	1.0	2
010	183_010	SAMPLE	301076-005	Soil	261057	07/02/18 18:52	1.0	2
011	183_011	SAMPLE	301076-006	Soil	261057	07/02/18 19:30	1.0	2
012	183_012	SAMPLE	301076-007	Soil	261057	07/02/18 20:08	1.0	2
013	183_013	SAMPLE	301076-008	Soil	261057	07/02/18 20:46	1.0	2
014	183_014	SAMPLE	301076-009	Soil	261057	07/02/18 21:24	1.0	2
015	183_015	SAMPLE	301076-010	Soil	261057	07/02/18 22:03	1.0	2
016	183_016	CCV	TVH			07/02/18 22:41	1.0	3 2
017	183_017	X	CMARKER			07/02/18 23:19	1.0	1 2
018	183_018	SAMPLE	301076-011	Soil	261057	07/02/18 23:58	1.0	2
019	183_019	SAMPLE	301076-012	Soil	261057	07/03/18 00:36	1.0	2
020	183_020	SAMPLE	301076-013	Soil	261057	07/03/18 01:14	1.0	2
021	183_021	SAMPLE	301076-014	Soil	261057	07/03/18 01:52	1.0	2
022	183_022	SAMPLE	301076-015	Soil	261057	07/03/18 02:31	1.0	2
023	183_023	SAMPLE	301076-016	Soil	261057	07/03/18 03:09	1.0	2
024	183_024	SAMPLE	301076-020	Soil	261057	07/03/18 03:47	1.0	2
025	183_025	SAMPLE	301076-021	Soil	261057	07/03/18 04:25	1.0	2
026	183_026	SAMPLE	301104-013	Soil	261057	07/03/18 05:04	1.0	2
027	183_027	SAMPLE	301104-014	Soil	261057	07/03/18 05:42	1.0	2
028	183_028	CCV	TVH			07/03/18 06:20	1.0	3 2
029	183_029	X	CMARKER			07/03/18 06:58	1.0	1 2

JM2 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

Reviewed by: JM2 Date: 07/03/18

Standards used: 1=S35319 2=S37192 3=S36848

TITLE PROJECT DATE

Continued from page							
Sample	ID	Weight (g)	Wt/Wt	Comments: Initials	Bal. ID		
300985-2	A	1.03 ^{0.93} ^{UML 6/27} 0.93	No	JM 6/27/18	B-6		
-3		0.90					
-4		0.91					
-5		0.92					
-6		1.03					
-7		0.90					
-1 MS		1.02					
-1 MSD		1.0 ^{1.09} ^{UML 6/27} 1.09					
300966-1	C	MeOH 10/5000	No	JM 6/28/18	B-6		
30096-16	A	0.92					
301044-1 MS		0.99					
-1 MSD		0.96					
300978-7	C	33.19 - 30.559 - 0.36 = 2.27					
301003-2	B	37.30 - 30.465 - 0.36 = 6.48					
-3	L	37.34 - 30.558 = 6.42					
-4	A	37.40 - 30.568 = 6.47					
-5		37.94 - 30.832 = 6.75					
-6		37.45 - 30.864 = 6.23					
301132-1	A	0.93					
-2		0.99					
- MS		0.93					
- MSD		1.00					
301114-5	A	1.00		corp 114-(1-9)			
301124-1		0.96					
301106-1	A	0.95					
-2		0.93					
-2 MS		0.93					
-2 MSD		0.93					
300978-7	D	33.55 - 30.648 - 0.36 = 2.54					
301140-5	A	1.07	No	JM 6/29/18 ^{corp 114-(1-9)}	B-6		
301080-1		0.94					
-2		0.94					
-4		0.96					
-5		1.00					
-1 MS		0.95					
-1 MSD		0.99					
301003-1	B	37.34 - 30.575 - 0.36 = 6.41					
-7	A	37.25 - 30.733 = 6.16					
-8		37.44 - 30.595 = 6.49					
-9		36.14 - 30.834 = 4.95					
-10		36.89 - 30.691 = 5.89					
-11		36.45 - 30.422 = 5.67					
-12		36.49 - 30.511 = 5.62					

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE PROJECT DATE

Continued from page	Sample	ID	Weight (g)	NAIHO	Comments: Initials	Bal ID
	301003-13	A	37.61 - 30.850 - 0.36 = 6.40	No	JMZ 6/29/18	B-6
5	-14		36.74 - 30.872 = 5.51			
	-15		37.61 - 30.744 = 6.51			
	-16		37.62 - 30.712 = 6.55			
	-17		36.94 - 30.692 = 5.94			
	-18		37.33 - 30.848 = 6.12			
	-19		37.07 - 30.621 = 6.09			
10	-20		36.55 - 30.670 = 5.52			
	-21		37.10 - 30.726 = 6.01			
	-22		37.70 - 30.744 = 6.60			
	-23		37.32 - 30.691 = 6.27			
	301107-2	D	39.68 - 35.440 - 0.36 = 3.88	Yes		
15	-2 MS	E	41.90 - 35.260 = 6.28			
	-2 MSD	F	40.95 - 35.110 = 5.48			
	-3 Jm 6/29 MSB	B	39.22 - 35.120 = 3.74			
	301076-1	A	38.09 - 30.672 - 0.36 = 7.06	No		
20	-2		38.32 - 30.620 = 7.34			
	-3		37.82 - 30.577 = 6.88			
	-4		38.33 - 30.620 = 7.35			
	-5		37.94 - 30.506 = 7.07			
	-6		38.33 - 30.686 = 7.28			
	-7		37.61 - 30.542 = 6.71			
25	-8		38.64 - 30.668 = 7.61			
	-9		37.64 - 30.539 = 6.74			
	-10		37.80 - 30.705 = 6.74			
	-11		37.82 - 30.686 = 6.77			
	-12		37.27 - 30.642 = 6.27			
30	-13		37.96 - 30.671 = 6.93			
	-14		36.88 - 30.510 = 6.01			
	-15		37.99 - 30.644 = 6.99			
	-16		37.46 - 30.784 = 6.32			
35	-17		36.45 - 30.367 = 5.72			
	-18		38.57 - 31.101 = 7.11			
	-19		38.06 - 30.546 = 7.15			
	-20		37.72 - 30.577 = 6.78			
	301137-3	A	0.90		comp 137-(1,2)	
40	301076-21		37.49 - 30.637 - 0.36 = 6.49			
	-22		38.90 - 30.636 = 7.90			
	-23		38.02 - 30.742 = 6.92			
	301107-1	A	38.04 - 30.437 - 0.36 = 7.24			
45	-2		37.93 - 30.619 = 6.95			
	-3		37.71 - 30.674 = 6.68			
	-4		37.70 - 30.322 = 7.02			

SIGNATURE

DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE PROJECT DATE

Continued from page		ID	Weight (g)	Net Wt	Comments: Initials	Bal. ID
Sample						
301104-5	A		37.47 - 30.750 - 0.36 = 6.36	No	JML 6/29/18	B-6
-6			38.40 - 30.716 = 7.32			
-7			38.11 - 30.590 = 7.16			
-8			38.75 - 30.675 = 7.72			
-9			38.59 - 30.579 = 7.65			
-10			38.14 - 30.784 = 7.00			
-11			38.51 - 30.756 = 7.39			
-12			37.58 - 30.716 = 6.50			
SIGNATURE		DATE		Continued to page		
DISCLOSED TO AND UNDERSTOOD BY		DATE		PROPRIETARY INFORMATION		

TITLE PROJECT DATE

Continued from page		ID	Weight (S)	Moisture	Comments: Initials	Bal. ID
Sample						
301104-5		A	37.47 - 30.750 - 0.36 = 6.36	No	JM 6/29/18	B-6
5	-6		38.40 - 30.716 = 7.32			
	-7		38.11 - 30.590 = 7.16			
	-8		38.75 - 30.675 = 7.72			
	-9		38.59 - 30.579 = 7.65			
	-10		38.14 - 30.784 = 7.00			
	-11		38.51 - 30.756 = 7.39			
10	-12		37.58 - 30.716 = 6.50			
	301003-13	B	36.97 - 30.629 - 0.36 = 5.98	No	JM 7/2/18	B-6
	301107-2	L	40.90 - 35.14 - 0.36 = 5.40	Yes		
	-2	MS	40.75 - 35.18 = 5.21			
	-2	MSD	42.00 - 35.24 = 6.90			
15	301076-1	B	37.92 - 30.584 - 0.36 = 6.48	No		
	-2		37.08 - 30.658 = 6.06			
	-3		37.59 - 30.272 = 6.96			
	-4		38.45 - 30.758 = 7.33			
	-5		38.40 - 30.487 = 7.55			
20	-6		38.39 - 30.517 = 7.51			
	-7		38.05 - 30.669 = 7.03			
	-8		38.33 - 30.700 = 7.27			
	-9		37.91 - 30.914 = 6.64			
	-10		37.65 - 30.644 = 6.65			
25	-11		37.69 - 30.637 = 6.69			
	-12		37.07 - 31.226 = 5.48			
	-13		37.64 - 30.543 = 6.74			
	-14		38.56 - 30.937 = 7.26			
	-15		35.76 - 30.477 = 4.92			
30	-16		37.97 - 30.613 = 7.00			
	-20		37.56 - 30.621 = 6.58			
	-21		37.45 - 30.913 = 6.18			
	301104-13	A	38.30 - 30.664 - 0.36 = 7.28			
	-14		37.69 - 30.554 = 6.78			
35	301119-1	A	0.95			
	-2		0.93			
	-3		0.93			
	-4		0.96			
	301143-1	A	35.42 - 30.774 - 0.56 = 4.09			
40	301147-2		40.77 - 34.81 - 0.36 = 5.60	Yes		
	-3		41.50 - 35.38 = 5.76			
	-4		40.91 - 35.11 = 5.44			
	-5		40.06 - 35.18 = 4.52			
	-6		40.42 - 35.35 = 4.71			
45	-7		42.10 - 35.77 = 5.97			

Continued to page

SIGNATURE _____ DATE _____

DISCLOSED TO AND UNDERSTOOD BY _____ DATE _____

PROPRIETARY INFORMATION

Laboratory Job Number 301104

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Soil

Total Extractable Hydrocarbons			
Lab #:	301104	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	261072
Units:	mg/Kg	Sampled:	06/27/18
Basis:	dry	Received:	06/27/18
Diln Fac:	1.000		

Field ID: BR11-1SB020[3] Moisture: 15%
 Type: SAMPLE Prepared: 07/02/18
 Lab ID: 301104-001 Analyzed: 07/04/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.40 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	104	59-130

Field ID: BR11-1SB020[5] Moisture: 15%
 Type: SAMPLE Prepared: 07/02/18
 Lab ID: 301104-002 Analyzed: 07/04/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.43 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	107	59-130

Field ID: BR11-1SB020[7] Moisture: 16%
 Type: SAMPLE Prepared: 07/02/18
 Lab ID: 301104-003 Analyzed: 07/04/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.37 J Y	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	104	59-130

Field ID: BR11-1SB020[10] Moisture: 14%
 Type: SAMPLE Prepared: 07/02/18
 Lab ID: 301104-004 Analyzed: 07/04/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.41 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	109	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301104	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	261072
Units:	mg/Kg	Sampled:	06/27/18
Basis:	dry	Received:	06/27/18
Diln Fac:	1.000		

Field ID: BR11-1SB020[15] Moisture: 18%
 Type: SAMPLE Prepared: 07/03/18
 Lab ID: 301104-005 Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.43 J Y	1.2	0.38
Motor Oil C24-C36	ND	6.1	1.9

Surrogate	%REC	Limits
o-Terphenyl	107	59-130

Field ID: BR11-1SB020[20] Moisture: 15%
 Type: SAMPLE Prepared: 07/03/18
 Lab ID: 301104-006 Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.38 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	100	59-130

Field ID: BR11-1SB020[25] Moisture: 17%
 Type: SAMPLE Prepared: 07/03/18
 Lab ID: 301104-007 Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	4.8 Y	1.2	0.37
Motor Oil C24-C36	22	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	85	59-130

Field ID: BR11-1SB020[30] Moisture: 13%
 Type: SAMPLE Prepared: 07/03/18
 Lab ID: 301104-008 Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.47 J Y	1.1	0.35
Motor Oil C24-C36	ND	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	101	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301104	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	261072
Units:	mg/Kg	Sampled:	06/27/18
Basis:	dry	Received:	06/27/18
Diln Fac:	1.000		

Field ID: BR11-1SB020[35] Moisture: 15%
 Type: SAMPLE Prepared: 07/03/18
 Lab ID: 301104-009 Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	91	59-130

Field ID: BR11-1SB020[40] Moisture: 14%
 Type: SAMPLE Prepared: 07/03/18
 Lab ID: 301104-010 Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.2	0.36
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	107	59-130

Field ID: BR11-1SB020[45] Moisture: 15%
 Type: SAMPLE Prepared: 07/03/18
 Lab ID: 301104-011 Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.38 J Y	1.2	0.36
Motor Oil C24-C36	3.0 J	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	96	59-130

Field ID: BR11-1SB020[50] Moisture: 7%
 Type: SAMPLE Prepared: 07/03/18
 Lab ID: 301104-012 Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.1	0.33
Motor Oil C24-C36	ND	5.4	1.6

Surrogate	%REC	Limits
o-Terphenyl	101	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301104	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	261072
Units:	mg/Kg	Sampled:	06/27/18
Basis:	dry	Received:	06/27/18
Diln Fac:	1.000		

Field ID: DUP06272018-01 Moisture: 13%
 Type: SAMPLE Prepared: 07/03/18
 Lab ID: 301104-013 Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.72 J Y	1.2	0.35
Motor Oil C24-C36	5.6 J	5.8	1.7

Surrogate	%REC	Limits
o-Terphenyl	92	59-130

Field ID: DUP06272018-02 Moisture: 13%
 Type: SAMPLE Prepared: 07/03/18
 Lab ID: 301104-014 Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.2	0.35
Motor Oil C24-C36	ND	5.8	1.7

Surrogate	%REC	Limits
o-Terphenyl	98	59-130

Type: BLANK Prepared: 07/02/18
 Lab ID: QC938164 Analyzed: 07/03/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	96	59-130

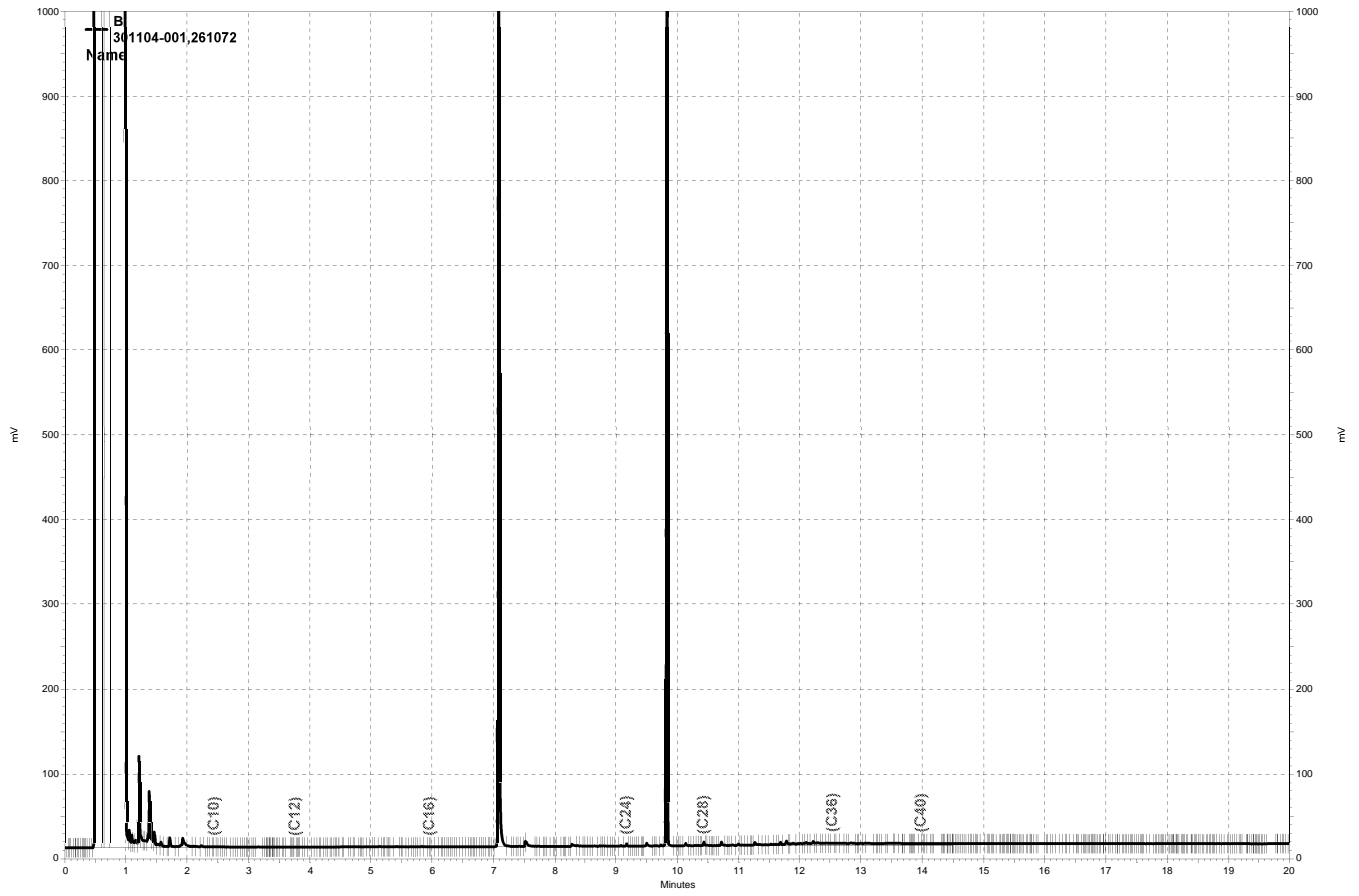
J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

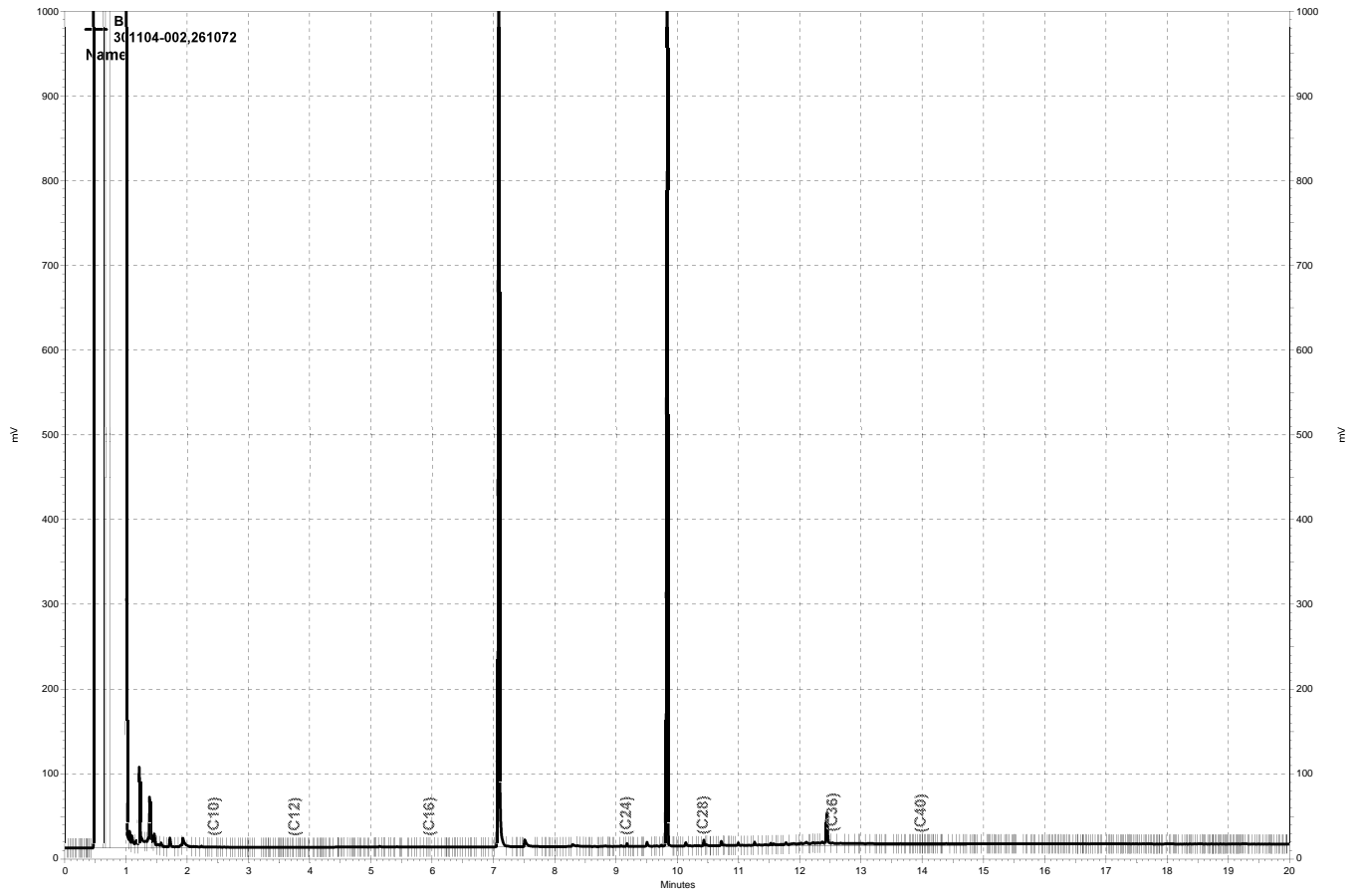
Total Extractable Hydrocarbons			
Lab #:	301104	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC938165	Batch#:	261072
Matrix:	Soil	Prepared:	07/02/18
Units:	mg/Kg	Analyzed:	07/03/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	49.79	100	56-137

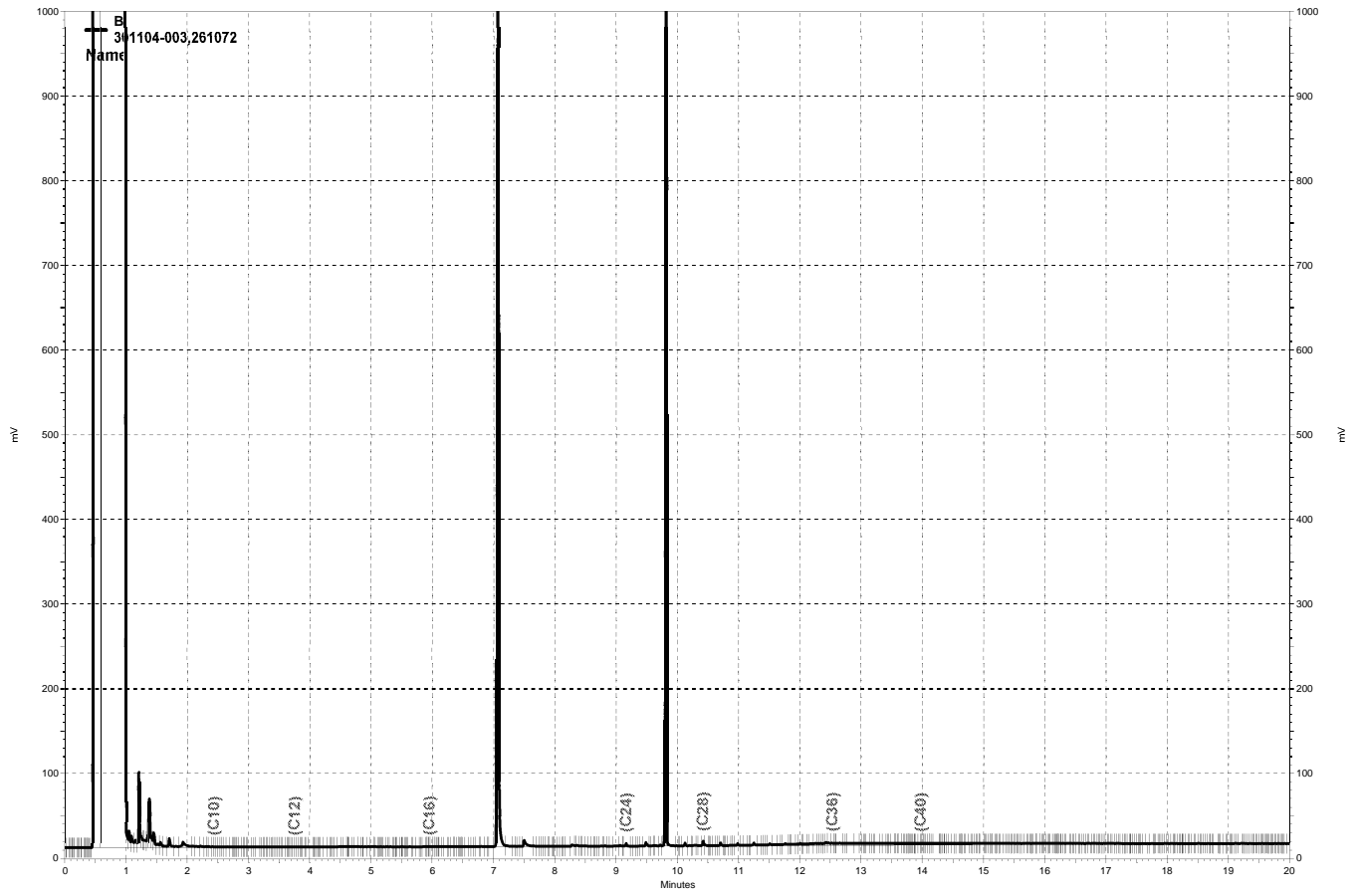
Surrogate	%REC	Limits
o-Terphenyl	103	59-130



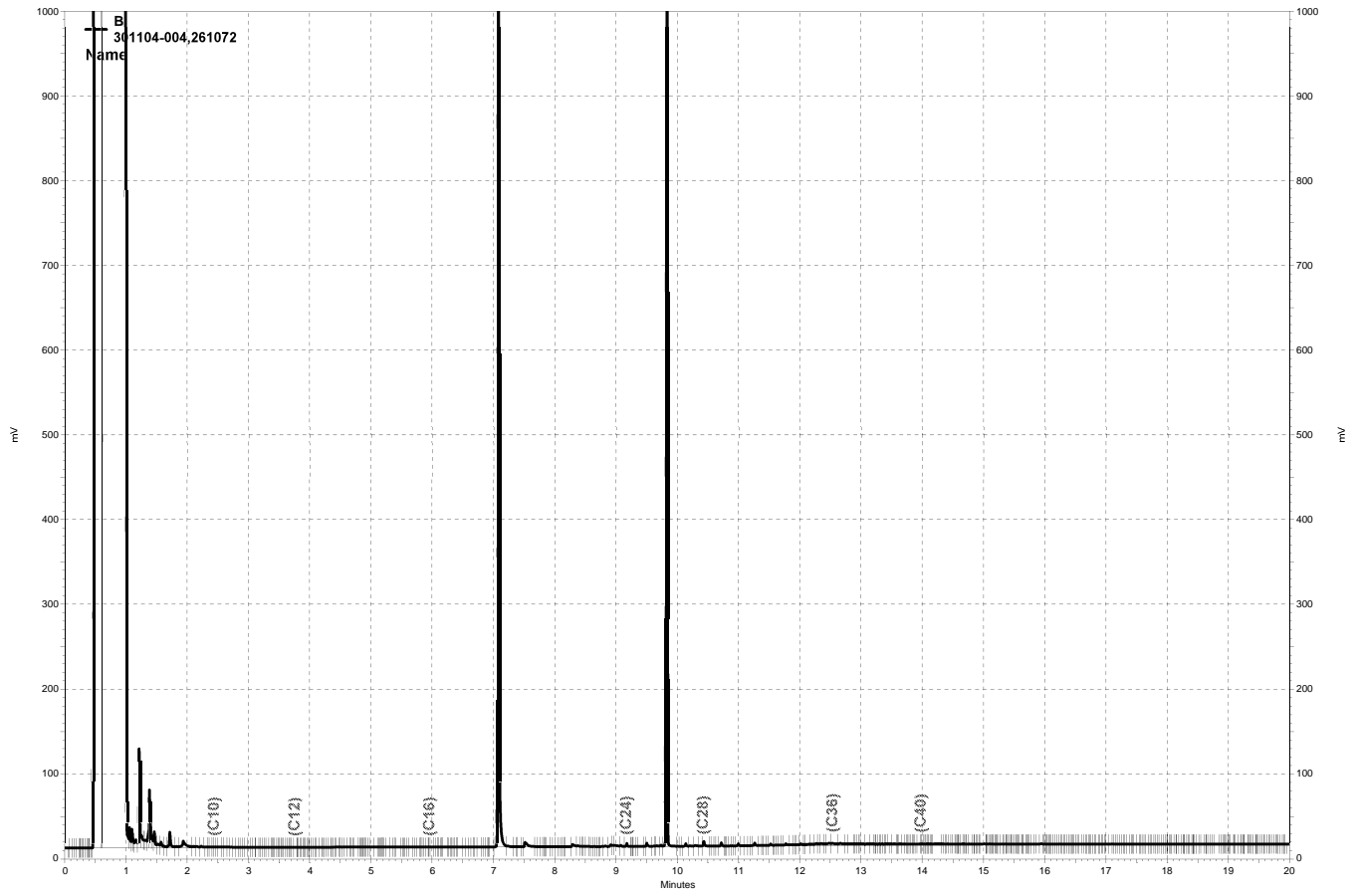
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b083, B



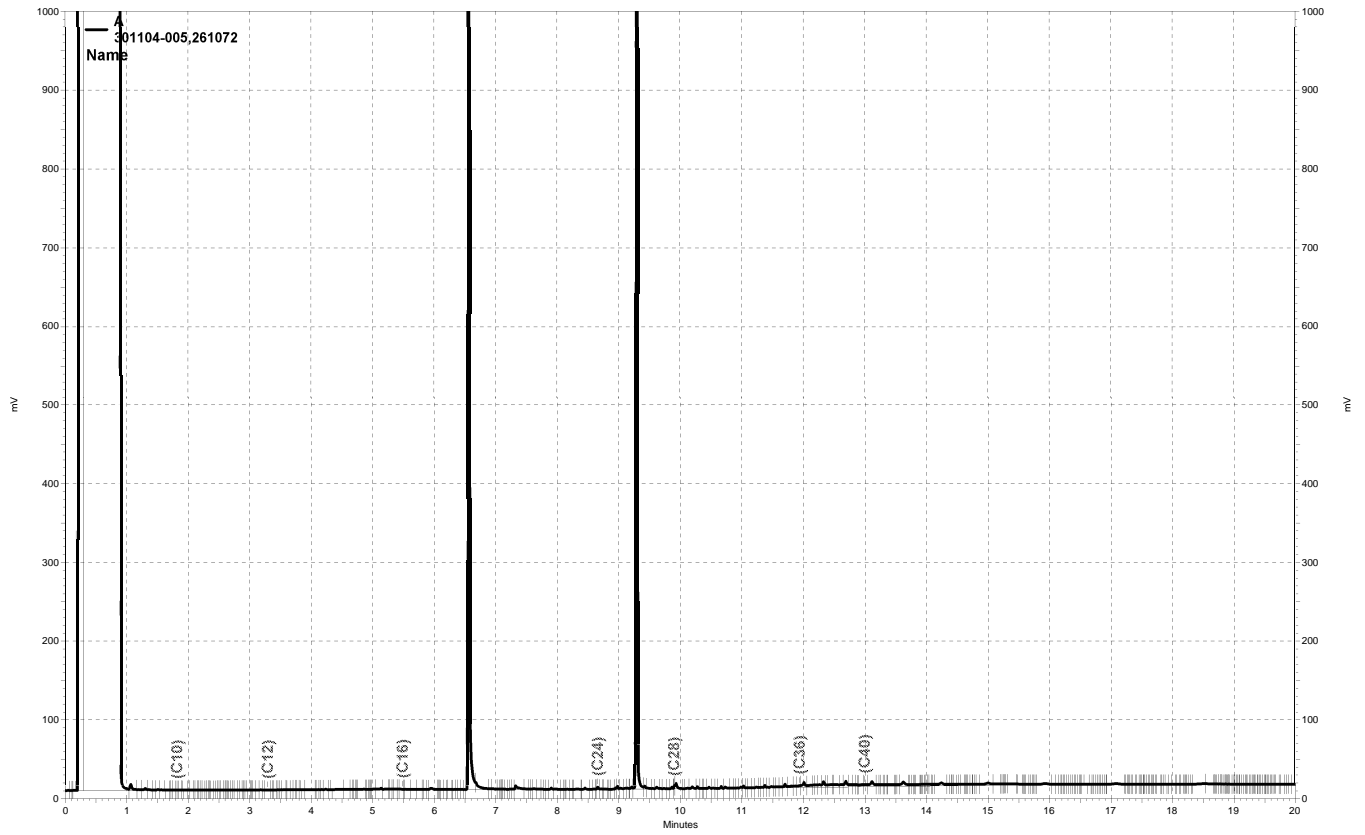
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b084, B



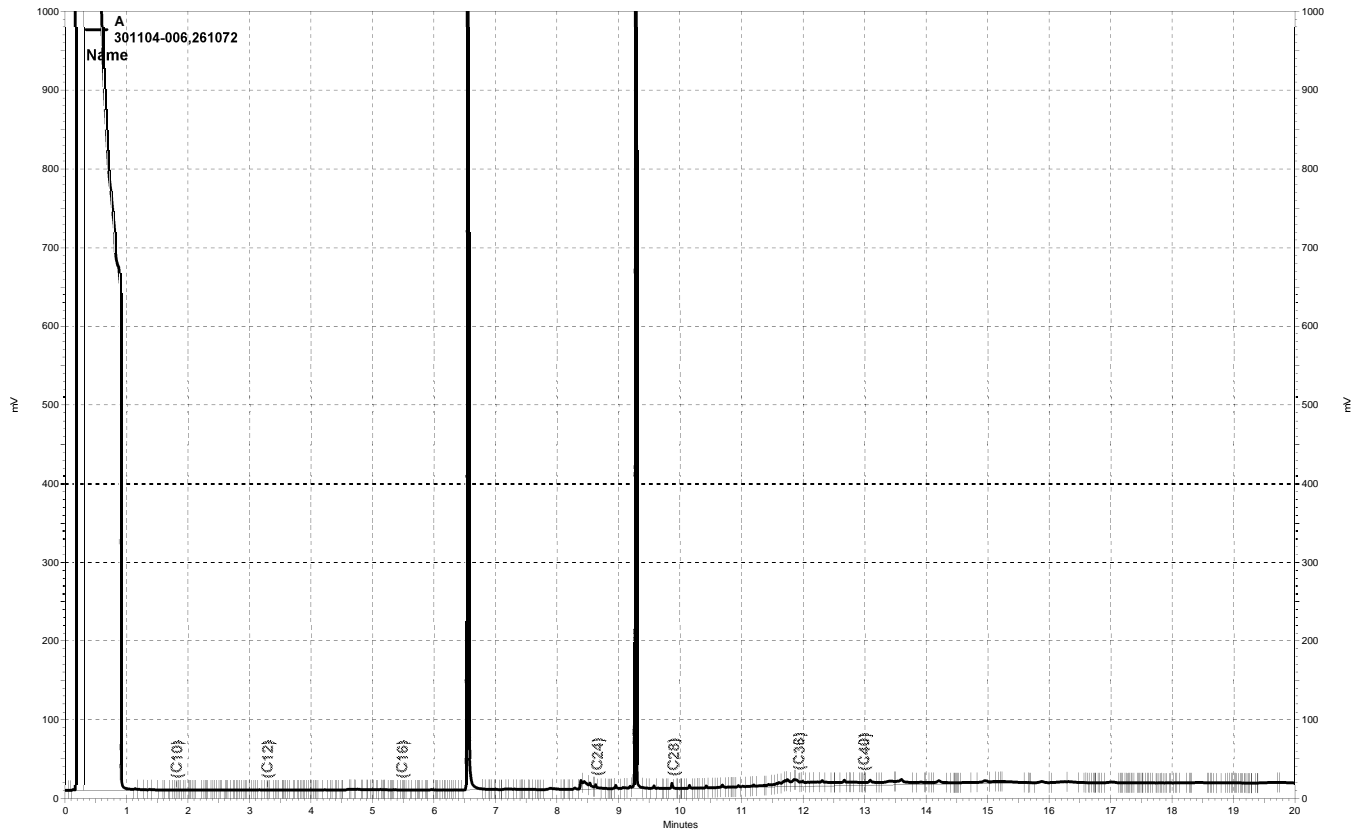
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b085, B



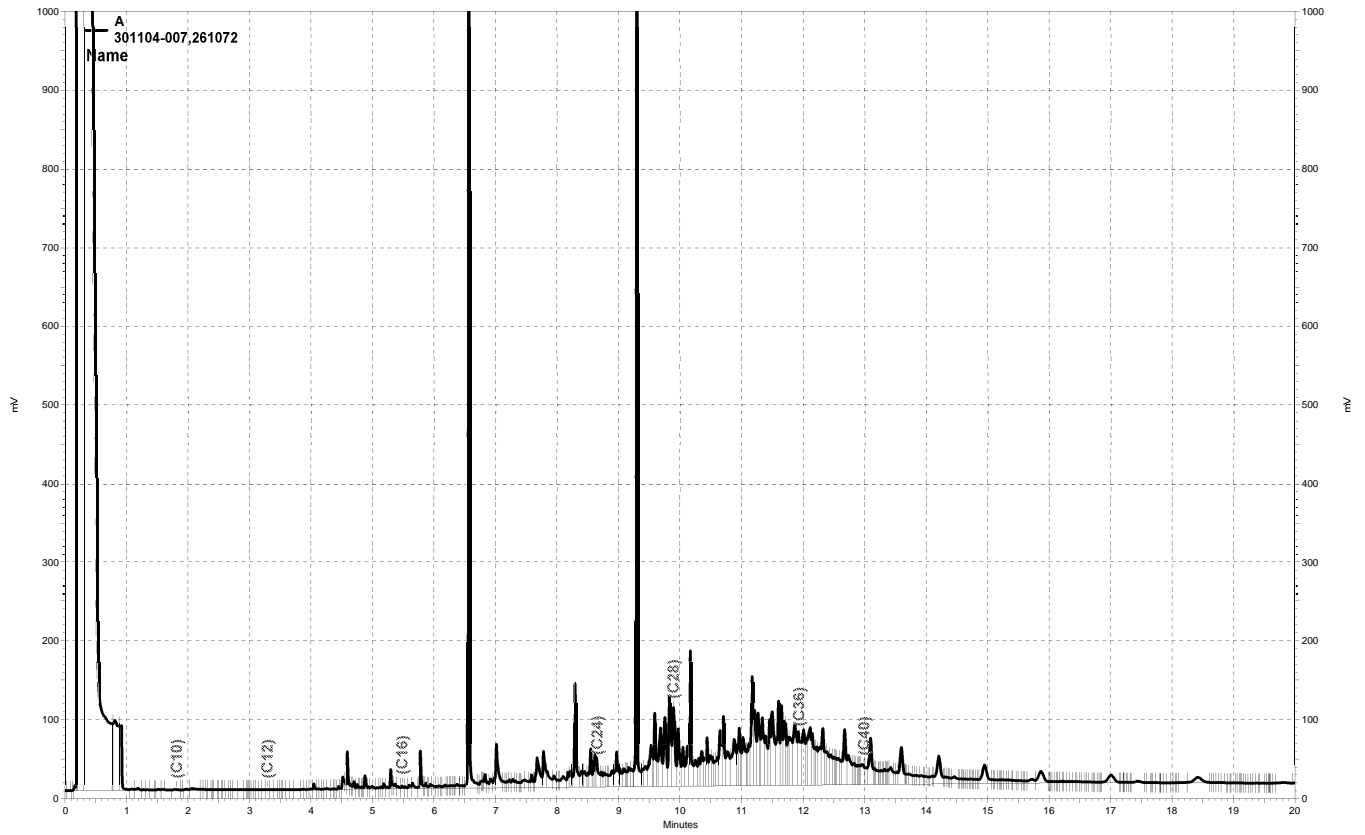
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b086, B



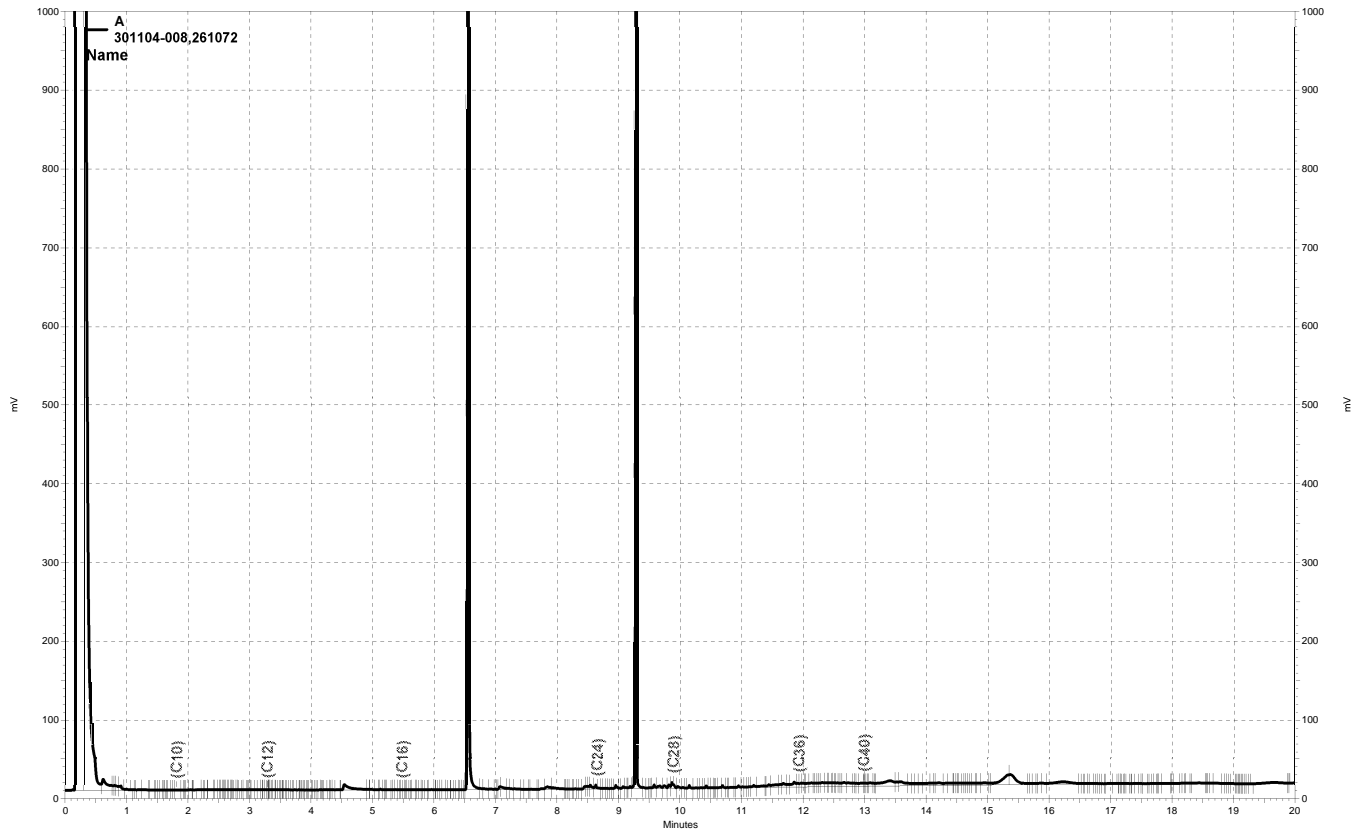
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a005, A



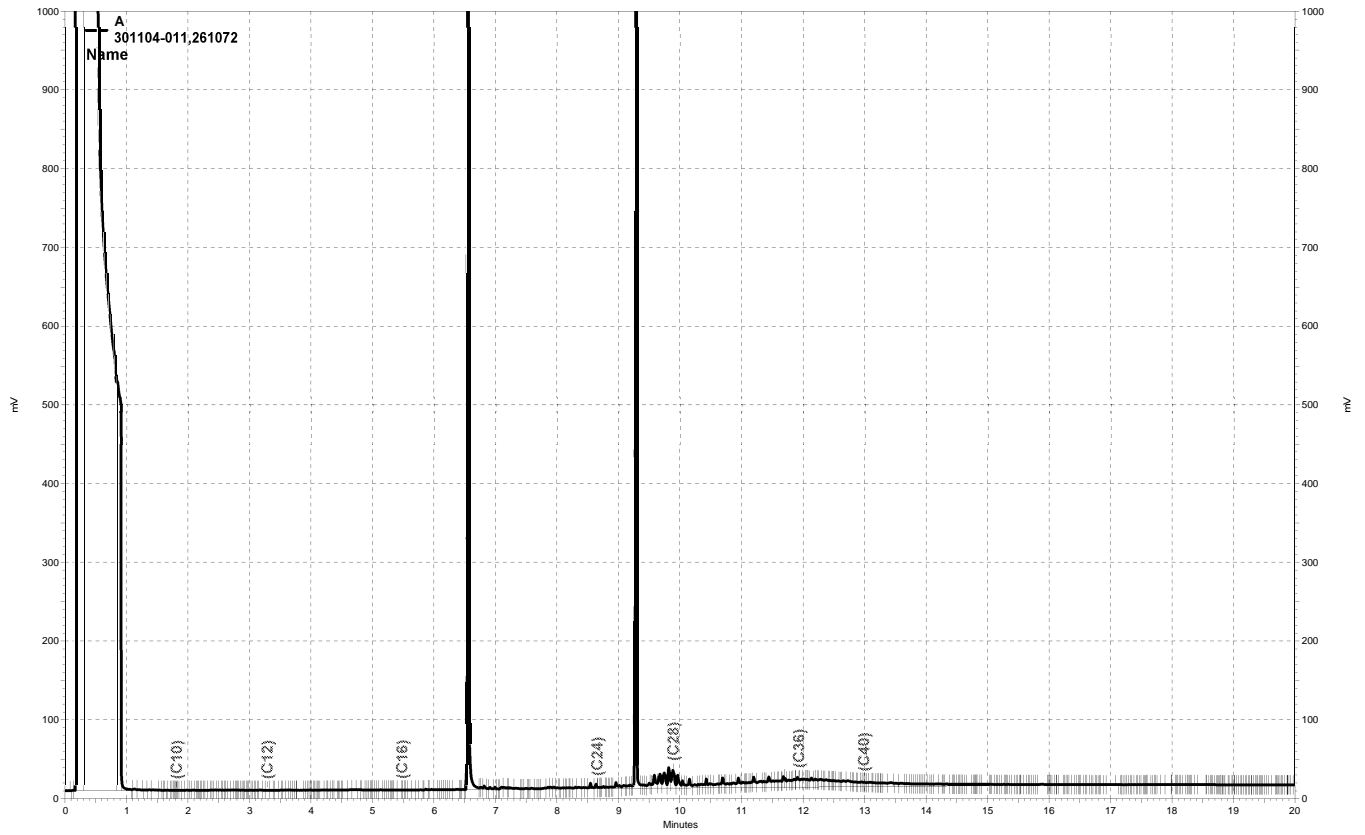
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a010, A



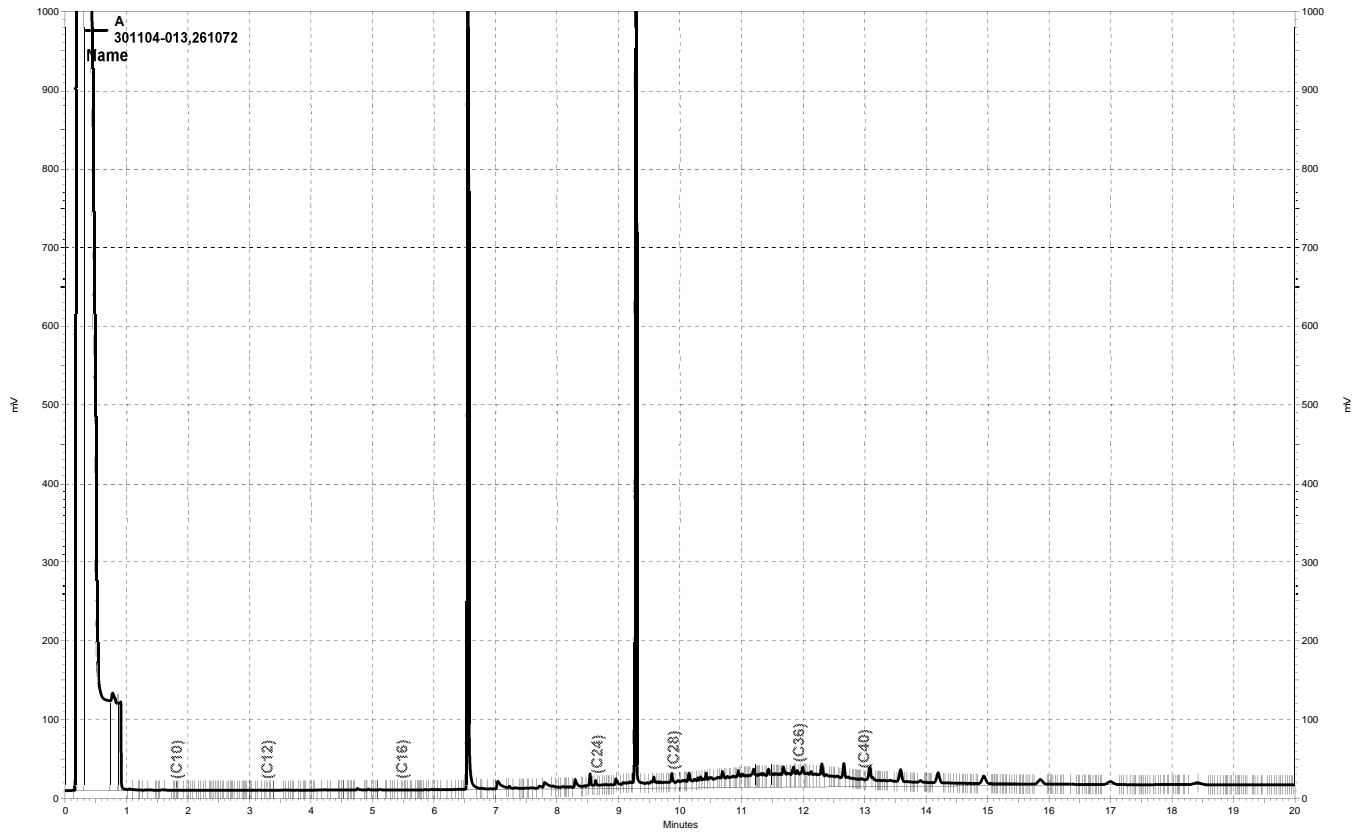
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a011, A



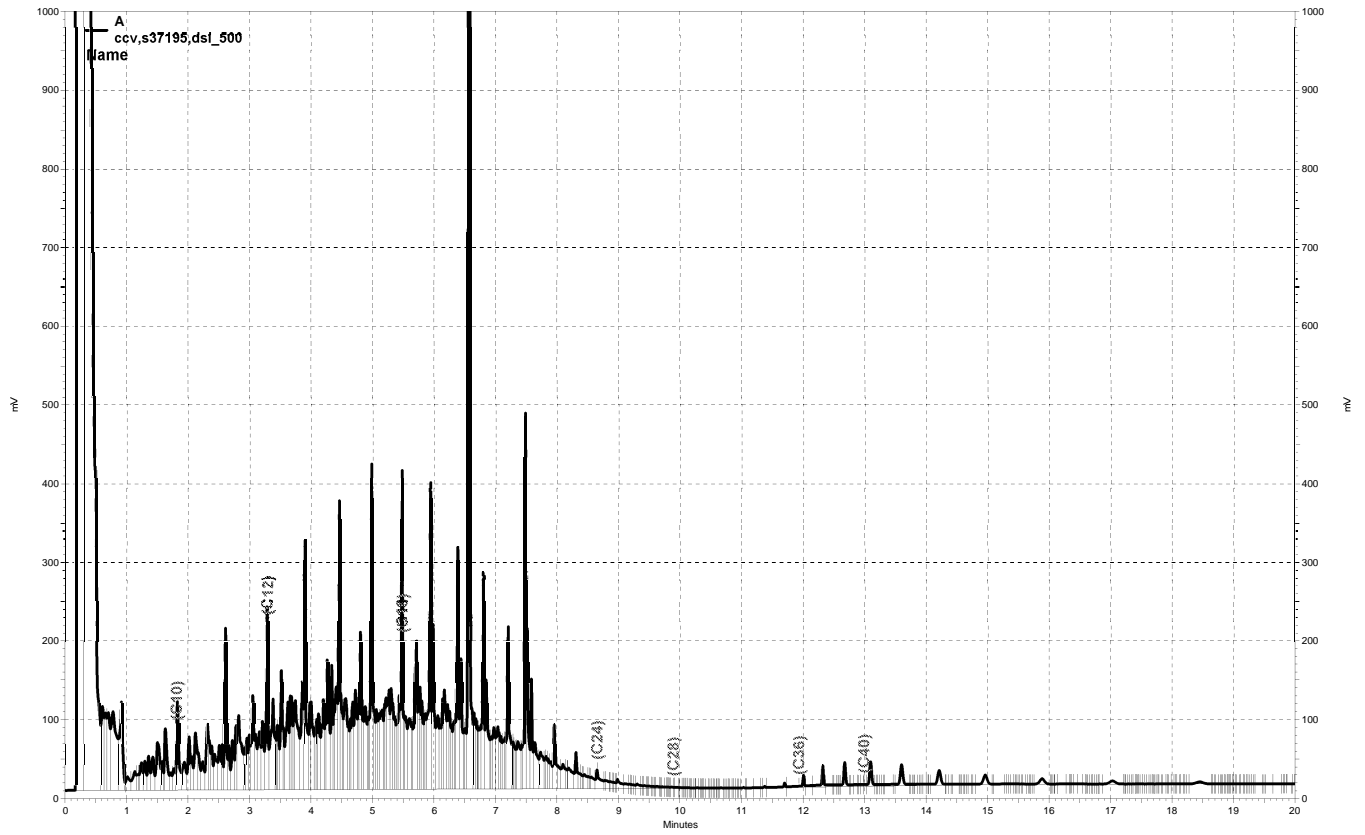
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a012, A



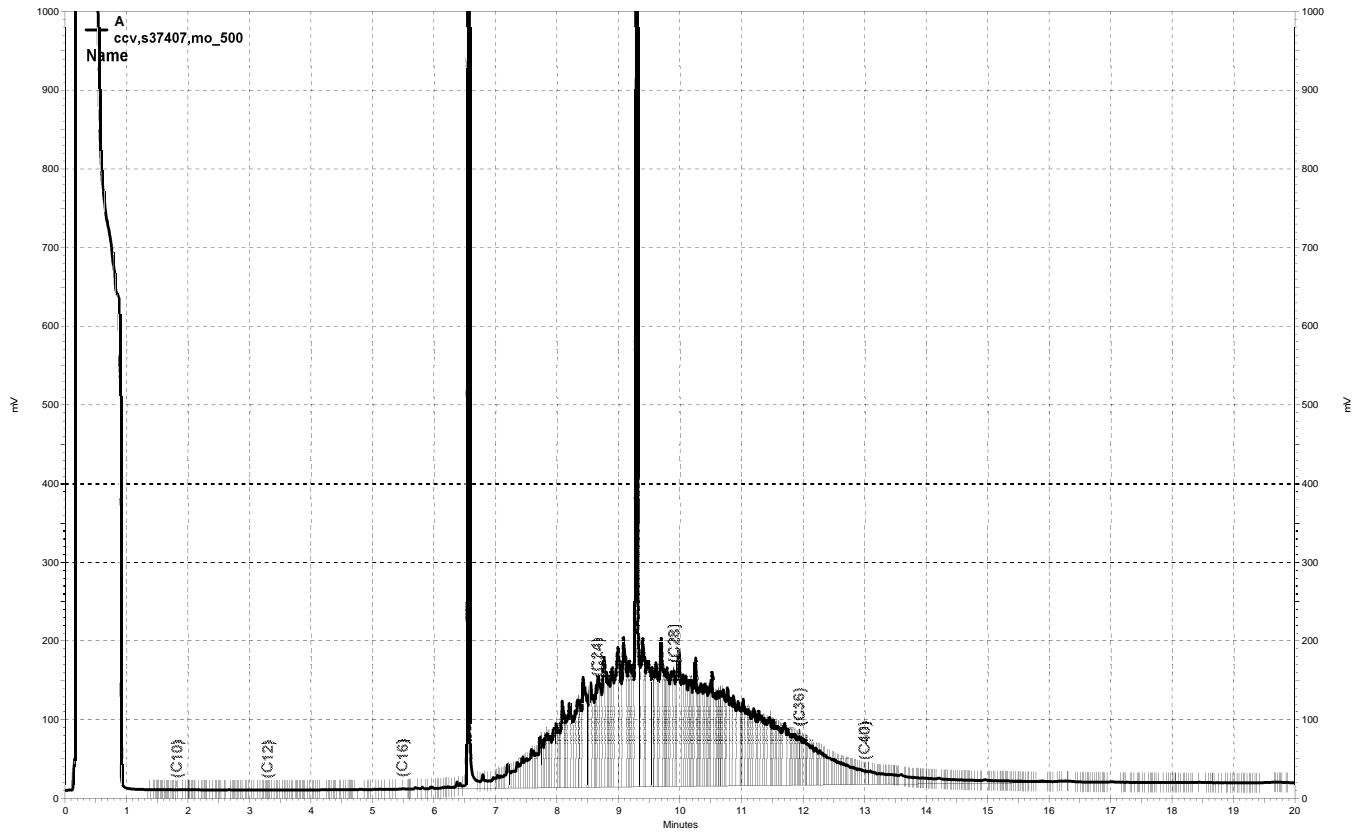
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a015, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a017, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a003, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a004, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 301104 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301104 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

ENTHALPY INITIAL CALIBRATION FOR 301104 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301104 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228263897001
 Units : mg/L

Name : HEXOTP_183
 Date : 03-JUL-2018 00:37
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	183_033	228263897033	HEX OTP_2.5	03-JUL-2018 00:37	S36499 (2X)
L2	183_034	228263897034	HEX OTP_5	03-JUL-2018 01:06	S36499
L3	183_035	228263897035	HEX OTP_10	03-JUL-2018 01:34	S36500
L4	183_036	228263897036	HEX OTP_25	03-JUL-2018 02:03	S36501
L5	183_037	228263897037	HEX OTP_50	03-JUL-2018 02:31	S36502
L6	183_038	228263897038	HEX OTP_100	03-JUL-2018 03:00	S36503

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	56266	54969	58095	56045	53979	52579	AVRG		1.81E-5		55322	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	2	5.0000	-1	10.000	5	25.000	1	50.000	-2	100.00	-5

WA1 07/03/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/03/18

Reviewer: TKM

Date: 07/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301104 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178265382004
 Units : mg/L

Name : HEXOTP_184
 Date : 03-JUL-2018 19:03
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a015	178265382015	HEXOTP_2.5	03-JUL-2018 19:03	S36499 (2X)
L2	184a016	178265382016	HEXOTP_5	03-JUL-2018 19:31	S36499
L3	184a017	178265382017	HEXOTP_10	03-JUL-2018 19:58	S36500
L4	184a018	178265382018	HEXOTP_25	03-JUL-2018 20:26	S36501
L5	184a019	178265382019	HEXOTP_50	03-JUL-2018 20:53	S36502
L6	184a020	178265382020	HEXOTP_100	03-JUL-2018 21:21	S36503

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	71270	76293	79399	80459	79467	78365	AVRG		1.29E-5		77542	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	-8	5.0000	-2	10.000	2	25.000	4	50.000	2	100.00	1

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301104 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178265382002
 Units : mg/L

Name : DSL_184
 Date : 03-JUL-2018 22:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a022	178265382022	DSL_10	03-JUL-2018 22:17	S36610
L2	184a023	178265382023	DSL_100	03-JUL-2018 22:45	S36611
L3	184a024	178265382024	DSL_500	03-JUL-2018 23:13	S36613
L4	184a025	178265382025	DSL_1000	03-JUL-2018 23:40	S36615
L5	184a026	178265382026	DSL_5000	04-JUL-2018 00:08	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	60168	65483	66739	66422	64707	AVRG		1.55E-5		64704	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-7	100.00	1	500.00	3	1000.0	3	5000.0	0

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301104 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178265382002

Name : DSL_184
Cal Date : 03-JUL-2018

ICV 178265382028 (184a028 04-JUL-2018) stds: S35844

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	460.5	mg/L	-8	15	

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

ENTHALPY INITIAL CALIBRATION FOR 301104 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178265382003
 Units : mg/L

Name : MO_184
 Date : 04-JUL-2018 02:00
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a030	178265382030	MO_50	04-JUL-2018 02:00	S36946
L2	184a031	178265382031	MO_250	04-JUL-2018 02:28	S36948
L3	184a032	178265382032	MO_500	04-JUL-2018 02:55	S36949
L4	184a033	178265382033	MO_1000	04-JUL-2018 03:23	S36951
L5	184a034	178265382034	MO_2500	04-JUL-2018 03:51	S36926 (2X)
L6	184a035	178265382035	MO_5000	04-JUL-2018 04:19	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	45568	50014	49846	50127	50897	48592	AVRG		2.03E-5		49174	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-7	250.00	2	500.00	1	1000.0	2	2500.0	4	5000.0	-1

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301104 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178265382003

Name : MO_184
Cal Date : 04-JUL-2018

ICV 178265382037 (184a037 04-JUL-2018) stds: S37407

Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	465.5	mg/L	-7	15	

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897064.1 File : 183_064 Time : 03-JUL-2018 20:09
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	33241	500.0	559.4	mg/L	12	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	53730	50.00	48.56	mg/L	-3	15	

CB1 07/05/18 : ccv,s37407,mo_500

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: EAH Date: 07/05/18 * Reviewer: CB1 Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228263897079.1 File : 183_079 Time : 04-JUL-2018 03:18
 Standards: S37195

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	46194	500.0	513.3	mg/L	3	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	54496	50.00	49.25	mg/L	-1	15	

CB1 07/05/18 : ccv,s37195,dsl_500

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897080 File : 183_080 Time : 04-JUL-2018 03:46
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	31838	500.0	535.8	mg/L	7	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	53939	50.00	48.75	mg/L	-3	15	

CB1 07/05/18 : ccv,s37407,mo_500

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228263897097 File : 183_097 Time : 04-JUL-2018 11:52
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	45125	1000	1003	mg/L	0	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	56768	50.00	51.31	mg/L	3	15	

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228263897098 File : 183_098 Time : 04-JUL-2018 12:21
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	32233	500.0	542.4	mg/L	8	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	53478	50.00	48.33	mg/L	-3	15	

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
 Seqnum : 178268208003 File : 186a003 Time : 05-JUL-2018 07:03
 Standards: S37195

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178265382002	03-JUL-2018	64704	64910	500.0	501.6	mg/L	0	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	75191	50.00	48.48	mg/L	-3	15	

WA1 07/05/18 : Corrected automatically drawn baseline.

WA1: 07/05/18 * CB1: 07/09/18 EAH: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178268208004 File : 186a004 Time : 05-JUL-2018 07:31
 Standards: S37407

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	178265382003	04-JUL-2018	49174	48960	500.0	497.8	mg/L	0	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	79384	50.00	51.19	mg/L	2	15	

WA1 07/05/18 : Corrected automatically drawn baseline.

WA1: 07/05/18 * CB1: 07/09/18 EAH: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
 Seqnum : 178268208019 File : 186a019 Time : 05-JUL-2018 17:49
 Standards: S36285

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178265382002	03-JUL-2018	64704	68335	250.0	264.0	mg/L	6	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	82367	50.00	53.11	mg/L	6	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

WA1: 07/06/18 EAH: 07/06/18 CB1: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301104 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178268208020 File : 186a020 Time : 05-JUL-2018 18:17
 Standards: S37407

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	178265382003	04-JUL-2018	49174	49787	500.0	506.2	mg/L	1	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	80533	50.00	51.93	mg/L	4	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

WA1: 07/06/18 EAH: 07/06/18 CB1: 07/09/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178265382

Instrument : GC17A
 Method : EPA 8015B

Begun : 07/03/18 07:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	184a001	IB				07/03/18 07:02	1.0	
002	184a002	IB				07/03/18 07:29	1.0	
003	184a003	X	CMARKER			07/03/18 07:57	1.0	1
004	184a004	CCV	DSL_500			07/03/18 08:25	1.0	2
005	184a005	CCV	MO_500			07/03/18 08:53	1.0	3
007	184a007	IB				07/03/18 13:24	1.0	
008	184a008	X	CMARKER			07/03/18 13:52	1.0	1
009	184a009	CCV	DSL_500			07/03/18 14:19	1.0	2
010	184a010	CCV	MO_500			07/03/18 14:47	1.0	3
011	184a011	IB				07/03/18 17:13	1.0	
012	184a012	IB				07/03/18 17:40	1.0	
013	184a013	IB				07/03/18 18:08	1.0	
014	184a014	IB	CALIB			07/03/18 18:36	1.0	
015	184a015	ICAL	HEXOTP_2.5			07/03/18 19:03	1.0	4
016	184a016	ICAL	HEXOTP_5			07/03/18 19:31	1.0	4
017	184a017	ICAL	HEXOTP_10			07/03/18 19:58	1.0	5
018	184a018	ICAL	HEXOTP_25			07/03/18 20:26	1.0	6
019	184a019	ICAL	HEXOTP_50			07/03/18 20:53	1.0	7
020	184a020	ICAL	HEXOTP_100			07/03/18 21:21	1.0	8
021	184a021	IB	CALIB			07/03/18 21:49	1.0	
022	184a022	ICAL	DSL_10			07/03/18 22:17	1.0	9
023	184a023	ICAL	DSL_100			07/03/18 22:45	1.0	10
024	184a024	ICAL	DSL_500			07/03/18 23:13	1.0	11
025	184a025	ICAL	DSL_1000			07/03/18 23:40	1.0	12
026	184a026	ICAL	DSL_5000			07/04/18 00:08	1.0	13
027	184a027	IB	CALIB			07/04/18 00:36	1.0	
028	184a028	ICV	DSL_500			07/04/18 01:04	1.0	14
029	184a029	IB	CALIB			07/04/18 01:32	1.0	
030	184a030	ICAL	MO_50			07/04/18 02:00	1.0	15
031	184a031	ICAL	MO_250			07/04/18 02:28	1.0	16
032	184a032	ICAL	MO_500			07/04/18 02:55	1.0	17
033	184a033	ICAL	MO_1000			07/04/18 03:23	1.0	18
034	184a034	ICAL	MO_2500			07/04/18 03:51	1.0	19
035	184a035	ICAL	MO_5000			07/04/18 04:19	1.0	19
036	184a036	IB	CALIB			07/04/18 04:47	1.0	
037	184a037	ICV	MO_500			07/04/18 05:14	1.0	3
038	184a038	IB	CALIB			07/04/18 05:42	1.0	
039	184a039	CMARKER	C8-C40			07/04/18 06:10	1.0	1
040	184a040	IB	CALIB			07/04/18 06:38	1.0	

WA1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

Standards used: 1=S36439 2=S37195 3=S37407 4=S36499 5=S36500 6=S36501 7=S36502 8=S36503 9=S36610 10=S36611 11=S36613
 12=S36615 13=S36609 14=S35844 15=S36946 16=S36948 17=S36949 18=S36951 19=S36926

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178268208

Instrument : GC17A Begun : 07/05/18 06:08
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	186a001	IB				07/05/18 06:08	1.0		
002	186a002	X	CMARKER			07/05/18 06:35	1.0	1	
003	186a003	CCV	DSL_500			07/05/18 07:03	1.0	2	
004	186a004	CCV	MO_500			07/05/18 07:31	1.0	3	
005	186a005	SAMPLE	301104-005	Soil	261072	07/05/18 11:23	1.0		
006	186a006	SAMPLE	301176-020	Soil	261072	07/05/18 11:51	50.0		
007	186a007	SAMPLE	301137-003	Soil	261072	07/05/18 12:18	50.0		
008	186a008	SAMPLE	301176-020	Soil	261072	07/05/18 12:46	20.0		
009	186a009	IB				07/05/18 13:13	1.0		
010	186a010	SAMPLE	301104-006	Soil	261072	07/05/18 13:40	1.0		
011	186a011	SAMPLE	301104-007	Soil	261072	07/05/18 14:08	1.0		
012	186a012	SAMPLE	301104-008	Soil	261072	07/05/18 14:36	1.0		
013	186a013	SAMPLE	301104-009	Soil	261072	07/05/18 15:03	1.0		
014	186a014	SAMPLE	301104-010	Soil	261072	07/05/18 15:31	1.0		
015	186a015	SAMPLE	301104-011	Soil	261072	07/05/18 15:58	1.0		
016	186a016	SAMPLE	301104-012	Soil	261072	07/05/18 16:26	1.0		
017	186a017	SAMPLE	301104-013	Soil	261072	07/05/18 16:54	1.0		
018	186a018	SAMPLE	301104-014	Soil	261072	07/05/18 17:21	1.0		
019	186a019	CCV	DSL_250			07/05/18 17:49	1.0	4	
020	186a020	CCV	MO_500			07/05/18 18:17	1.0	3	
021	186a021	X	CMARKER			07/05/18 18:44	1.0	1	
022	186a022	SAMPLE	301146-009	Soil	261160	07/05/18 19:12	1.0		
023	186a023	SAMPLE	301146-010	Soil	261160	07/05/18 19:40	1.0		
024	186a024	SAMPLE	301146-011	Soil	261160	07/05/18 20:07	1.0		
025	186a025	SAMPLE	301146-012	Soil	261160	07/05/18 20:35	1.0		12:BUNKC:12-40=370000
026	186a026	SAMPLE	301146-013	Soil	261160	07/05/18 21:02	2.0		10:BUNKC:10-40=42000
027	186a027	IB				07/05/18 21:29	1.0		
028	186a028	SAMPLE	301207-009	Soil	261160	07/05/18 21:57	1.0		
029	186a029	SAMPLE	301207-011	Soil	261160	07/05/18 22:25	1.0		
030	186a030	CCV	DSL_500			07/05/18 22:53	1.0	2	
031	186a031	CCV	MO_500			07/05/18 23:20	1.0	3	
032	186a032	X	CMARKER			07/05/18 23:48	1.0	1	

WA1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 21.

CB1 07/06/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 22 through 32.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	113_001	IB					04/23/18 06:10	1.0	
002	113_002	IB					04/23/18 06:38	1.0	
003	113_003	X	CMARKER				04/23/18 07:06	1.0	1
004	113_004	CCV	DSL_500				04/23/18 07:34	1.0	2
005	113_005	CCV	MO_500				04/23/18 08:35	1.0	3
006	113_006	CCV	DSL_500				04/23/18 09:02	1.0	2
007	113_007	IB					04/23/18 12:40	1.0	
008	113_008	X	CMARKER				04/23/18 13:07	1.0	1
009	113_009	CCV	DSL_500				04/23/18 13:35	1.0	2
010	113_010	CCV	MO_500				04/23/18 14:03	1.0	3
012	113_012	IB					04/23/18 15:27	1.0	
013	113_013	SAMPLE	299115-001		Soil	258772	04/23/18 16:57	1.0	
014	113_014	SAMPLE	299115-002		Soil	258772	04/23/18 17:25	1.0	
015	113_015	SAMPLE	299115-003		Soil	258772	04/23/18 17:53	1.0	
016	113_016	SAMPLE	299115-004		Soil	258772	04/23/18 18:20	1.0	
017	113_017	SAMPLE	299056-001		Soil	258772	04/23/18 18:48	2.0	
018	113_018	IB					04/23/18 19:16	1.0	
019	113_019	SAMPLE	299117-001		Soil	258772	04/23/18 19:44	1.0	
020	113_020	SAMPLE	299117-002		Soil	258772	04/23/18 20:11	1.0	
021	113_021	MS	QC929007	S	Soil	258726	04/23/18 20:39	1.0	
022	113_022	MSD	QC929008	S	Soil	258726	04/23/18 21:07	1.0	
023	113_023	IB					04/23/18 21:35	1.0	
024	113_024	CCV	DSL_250				04/23/18 22:03	1.0	4
025	113_025	CCV	MO_500				04/23/18 22:31	1.0	3
026	113_026	X	CMARKER				04/23/18 22:59	1.0	1
027	113_027	BLANK	QC929171		Soil	258772	04/23/18 23:27	1.0	
028	113_028	LCS	QC929172		Soil	258772	04/23/18 23:55	1.0	
029	113_029	MSS	299056-002		Soil	258772	04/24/18 00:23	1.0	
030	113_030	MS	QC929173		Soil	258772	04/24/18 00:51	1.0	
031	113_031	MSD	QC929174		Soil	258772	04/24/18 01:19	1.0	
032	113_032	SAMPLE	299118-001		Soil	258772	04/24/18 01:47	1.0	
033	113_033	SAMPLE	299119-001		Soil	258772	04/24/18 02:14	1.0	
034	113_034	IB					04/24/18 02:42	1.0	
035	113_035	SAMPLE	299126-001		Soil	258772	04/24/18 03:10	1.0	
036	113_036	SAMPLE	299126-002		Soil	258772	04/24/18 03:38	1.0	
037	113_037	SAMPLE	299116-001		Soil	258772	04/24/18 04:06	1.0	
038	113_038	SAMPLE	299116-002		Soil	258772	04/24/18 04:34	1.0	
039	113_039	IB					04/24/18 05:02	1.0	
040	113_040	CCV	DSL_500				04/24/18 05:30	1.0	2
041	113_041	CCV	MO_500				04/24/18 05:58	1.0	3
042	113_042	X	CMARKER				04/24/18 06:26	1.0	1
043	113_043	SAMPLE	299056-005		Soil	258786	04/24/18 07:10	1.0	
044	113_044	SAMPLE	299056-006		Soil	258786	04/24/18 07:38	1.0	
045	113_045	SAMPLE	299055-001		Soil	258786	04/24/18 08:10	1.0	
046	113_046	SAMPLE	299055-002		Soil	258786	04/24/18 08:38	1.0	
047	113_047	SAMPLE	299055-004		Soil	258786	04/24/18 09:06	1.0	
048	113_048	SAMPLE	299055-005		Soil	258786	04/24/18 09:34	1.0	
049	113_049	SAMPLE	299055-006		Soil	258786	04/24/18 10:02	1.0	
050	113_050	SAMPLE	299055-007		Soil	258786	04/24/18 10:30	1.0	
051	113_051	CCV	DSL_1000				04/24/18 10:58	1.0	5
052	113_052	CCV	MO_500				04/24/18 11:26	1.0	3
053	113_053	X	CMARKER				04/24/18 11:54	1.0	1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B Begun : 04/23/18 06:10
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	113_054	CCV	DSL_1000				04/24/18 12:22	1.0	5
055	113_055	CCV	DSL_1000				04/24/18 12:50	1.0	5
056	113_056	IB					04/24/18 16:52	1.0	
057	113_057	IB	CALIB				04/24/18 17:20	1.0	
058	113_058	ICAL	HEX OTP_5				04/24/18 17:47	1.0	6
059	113_059	ICAL	HEX OTP_10				04/24/18 18:15	1.0	7
060	113_060	ICAL	HEX OTP_25				04/24/18 18:43	1.0	8
061	113_061	ICAL	HEX OTP_50				04/24/18 19:10	1.0	9
062	113_062	ICAL	HEX OTP_100				04/24/18 19:38	1.0	10
063	113_063	ICAL	HEX OTP_200				04/24/18 20:06	1.0	11
064	113_064	IB	CALIB				04/24/18 20:33	1.0	
065	113_065	ICAL	DSL_10				04/24/18 21:01	1.0	12
066	113_066	ICAL	DSL_100				04/24/18 21:29	1.0	13
067	113_067	ICAL	DSL_500				04/24/18 21:57	1.0	14
068	113_068	ICAL	DSL_1000				04/24/18 22:25	1.0	15
069	113_069	ICAL	DSL_5000				04/24/18 22:53	1.0	16
070	113_070	IB	CALIB				04/24/18 23:21	1.0	
071	113_071	ICV	DSL_500				04/24/18 23:49	1.0	17
072	113_072	IB	CALIB				04/25/18 00:17	1.0	
073	113_073	ICAL	MO_50				04/25/18 00:45	1.0	18
074	113_074	ICAL	MO_250				04/25/18 01:13	1.0	19
075	113_075	ICAL	MO_500				04/25/18 01:41	1.0	20
076	113_076	ICAL	MO_1000				04/25/18 02:09	1.0	21
077	113_077	ICAL	MO_2500				04/25/18 02:37	1.0	22
078	113_078	ICAL	MO_5000				04/25/18 03:05	1.0	22
079	113_079	IB	CALIB				04/25/18 03:33	1.0	
080	113_080	CMARKER	C8-C50				04/25/18 04:01	1.0	23
081	113_081	IB	CALIB				04/25/18 04:29	1.0	

CB1 04/25/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 81.

CB1 04/23/18 : Hardware failure (bent syringe) for run at position 4, RR DSL opening CCV.

WA1 04/23/18 : Position 11 was mis-injected.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S35149 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S36610 13=S36611 14=S36613 15=S36615 16=S36609 17=S35164 18=S34924 19=S34925 20=S34926 21=S34927 22=S34923
 23=S35483

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228223554

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/04/18 05:54
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	155_001	IB				06/04/18 05:54	1.0	
002	155_002	CCV	DSL_500			06/04/18 06:22	1.0	1
003	155_003	CCV	MO_500			06/04/18 06:51	1.0	2
004	155_004	X	CMARKER			06/04/18 07:19	1.0	3
005	155_005	CCV	JET_250			06/04/18 08:37	1.0	4
006	155_006	BLANK	QC934363	Water	260120	06/04/18 11:26	1.0	
007	155_007	BS	QC934364	Water	260120	06/04/18 11:54	1.0	
008	155_008	BSD	QC934365	Water	260120	06/04/18 12:23	1.0	
009	155_009	SAMPLE	300258-001	Water	260120	06/04/18 12:51	1.0	
010	155_010	CCV	DSL_1000			06/04/18 13:19	1.0	5
011	155_011	CCV	MO_500			06/04/18 14:54	1.0	2
012	155_012	CCV	JET_250			06/04/18 15:23	1.0	4
013	155_013	X	CMARKER			06/04/18 15:51	1.0	3
014	155_014	IB				06/04/18 16:20	1.0	
015	155_015	IB	CALIB			06/04/18 16:48	1.0	
016	155_016	ICAL	MO_50			06/04/18 17:17	1.0	6
017	155_017	ICAL	MO_250			06/04/18 17:45	1.0	7
018	155_018	ICAL	MO_500			06/04/18 18:14	1.0	8
019	155_019	ICAL	MO_1000			06/04/18 18:43	1.0	9
020	155_020	ICAL	MO_2500			06/04/18 19:11	1.0	10
021	155_021	ICAL	MO_5000			06/04/18 19:39	1.0	10
022	155_022	IB	CALIB			06/04/18 20:08	1.0	
023	155_023	CMARKER	C8-C40			06/04/18 20:36	1.0	3
024	155_024	IB	CALIB			06/04/18 21:04	1.0	

CB1 06/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	183_001	IB					07/02/18 06:17	1.0	
002	183_002	IB					07/02/18 06:46	1.0	
003	183_003	X	CMARKER				07/02/18 07:14	1.0	1
004	183_004	CCV	DSL_500				07/02/18 07:43	1.0	2
005	183_005	CCV	MO_500				07/02/18 08:11	1.0	3
006	183_006	BLANK	QC937860		Water	260995	07/02/18 10:57	1.0	
007	183_007	LCS	QC937861		Water	260995	07/02/18 11:26	1.0	
008	183_008	MSS	301108-001		Water	260995	07/02/18 11:54	1.0	
009	183_009	MS	QC937862		Water	260995	07/02/18 12:23	1.0	
010	183_010	MSD	QC937863		Water	260995	07/02/18 12:51	1.0	
011	183_011	SAMPLE	301135-001		Water	260995	07/02/18 13:20	1.0	
012	183_012	CCV	DSL_1000				07/02/18 13:54	1.0	4
013	183_013	CCV	MO_500				07/02/18 14:22	1.0	3
014	183_014	X	CMARKER				07/02/18 14:51	1.0	1
015	183_015	SAMPLE	301076-001		Soil	261040	07/02/18 16:07	1.0	
016	183_016	SAMPLE	301076-002		Soil	261040	07/02/18 16:36	1.0	
017	183_017	SAMPLE	301076-003		Soil	261040	07/02/18 17:04	1.0	
018	183_018	SAMPLE	301076-004		Soil	261040	07/02/18 17:32	1.0	
019	183_019	SAMPLE	301076-005		Soil	261040	07/02/18 18:00	1.0	
020	183_020	SAMPLE	301106-002		Soil	261040	07/02/18 18:29	2.0	
021	183_021	IB					07/02/18 18:57	1.0	
022	183_022	BLANK	QC938133		Soil	261063	07/02/18 19:25	1.0	
023	183_023	LCS	QC938134		Soil	261063	07/02/18 19:53	1.0	
024	183_024	MSS	301193-001		Soil	261063	07/02/18 20:21	3.0	
025	183_025	MS	QC938135		Soil	261063	07/02/18 20:49	3.0	
026	183_026	MSD	QC938136		Soil	261063	07/02/18 21:18	3.0	
027	183_027	IB					07/02/18 21:46	1.0	
028	183_028	SAMPLE	301106-001		Soil	261040	07/02/18 22:15	1.0	
029	183_029	CCV	DSL_500				07/02/18 22:43	1.0	2
030	183_030	CCV	MO_500				07/02/18 23:12	1.0	3
031	183_031	X	CMARKER				07/02/18 23:41	1.0	1
032	183_032	IB	CALIB				07/03/18 00:09	1.0	
033	183_033	ICAL	HEX OTP_2.5				07/03/18 00:37	1.0	5
034	183_034	ICAL	HEX OTP_5				07/03/18 01:06	1.0	5
035	183_035	ICAL	HEX OTP_10				07/03/18 01:34	1.0	6
036	183_036	ICAL	HEX OTP_25				07/03/18 02:03	1.0	7
037	183_037	ICAL	HEX OTP_50				07/03/18 02:31	1.0	8
038	183_038	ICAL	HEX OTP_100				07/03/18 03:00	1.0	9
039	183_039	IB	CALIB				07/03/18 03:28	1.0	
040	183_040	CMARKER	C8-C40				07/03/18 03:57	1.0	1
041	183_041	IB	CALIB				07/03/18 04:25	1.0	
042	183_042	IB					07/03/18 07:02	1.0	
043	183_043	X	CMARKER				07/03/18 07:30	1.0	1
044	183_044	CCV	DSL_500				07/03/18 07:59	1.0	2
045	183_045	CCV	MO_500				07/03/18 08:27	1.0	3
046	183_046	BLANK	QC938045		Soil	261040	07/03/18 11:14	1.0	
047	183_047	LCS	QC938046		Soil	261040	07/03/18 11:42	1.0	
048	183_048	LCS	QC938165		Soil	261072	07/03/18 12:10	1.0	
049	183_049	BLANK	QC938164		Soil	261072	07/03/18 12:38	1.0	
050	183_050	SAMPLE	301076-015		Soil	261063	07/03/18 13:07	1.0	
051	183_051	SAMPLE	301076-016		Soil	261063	07/03/18 13:35	1.0	
052	183_052	SAMPLE	301076-017		Soil	261063	07/03/18 14:03	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	183_053	SAMPLE	301076-014		Soil	261063	07/03/18 14:32	1.0		
054	183_054	SAMPLE	301070-001		Soil	261040	07/03/18 15:00	3.0		
055	183_055	SAMPLE	301124-001		Soil	261072	07/03/18 15:29	10.0		
056	183_056	IB					07/03/18 15:57	1.0		
057	183_057	MSS	301170-003		Soil	261072	07/03/18 16:25	1.0		
058	183_058	MS	QC938166		Soil	261072	07/03/18 16:54	1.0		
059	183_059	MSD	QC938167		Soil	261072	07/03/18 17:22	1.0		
060	183_060	CCV	DSL_250				07/03/18 18:15	1.0	10	
061	183_061	XCCV	MO_500				07/03/18 18:44	1.0	3	
062	183_062	X	CMARKER				07/03/18 19:12	1.0	1	
063	183_063	CCV	BUNK_500				07/03/18 19:40	1.0	11	
064	183_064	CCV	MO_500				07/03/18 20:09	1.0	3	
065	183_065	CCV	MO_500				07/03/18 20:37	1.0	3	
066	183_066	BLANK	QC938088		Water	261052	07/03/18 21:05	1.0		
067	183_067	BLANK	QC938045	S	Soil	261040	07/03/18 21:34	1.0		
068	183_068	LCS	QC938046	S	Soil	261040	07/03/18 22:02	1.0		
069	183_069	SAMPLE	301143-001	S	Soil	261040	07/03/18 22:31	1.0		
070	183_070	IB					07/03/18 22:59	1.0		
071	183_071	SAMPLE	301076-025		Water	261052	07/03/18 23:28	1.0		
072	183_072	SAMPLE	301189-001		Water	261052	07/03/18 23:57	1.0		
073	183_073	SAMPLE	301189-002		Water	261052	07/04/18 00:26	1.0		
074	183_074	SAMPLE	301189-003		Water	261052	07/04/18 00:54	1.0		
075	183_075	SAMPLE	301170-001		Soil	261072	07/04/18 01:23	1.0		
076	183_076	SAMPLE	301170-002		Soil	261072	07/04/18 01:52	1.0		
077	183_077	SAMPLE	301213-001		Soil	261040	07/04/18 02:20	1.0		
078	183_078	SAMPLE	301111-001		Water	261052	07/04/18 02:49	2.0		
079	183_079	CCV	DSL_500				07/04/18 03:18	1.0	2	
080	183_080	CCV	MO_500				07/04/18 03:46	1.0	3	
081	183_081	CCV	BUNK_500				07/04/18 04:15	1.0	11	
082	183_082	X	CMARKER				07/04/18 04:44	1.0	1	
083	183_083	SAMPLE	301104-001		Soil	261072	07/04/18 05:12	1.0		
084	183_084	SAMPLE	301104-002		Soil	261072	07/04/18 05:41	1.0		
085	183_085	SAMPLE	301104-003		Soil	261072	07/04/18 06:10	1.0		
086	183_086	SAMPLE	301104-004		Soil	261072	07/04/18 06:38	1.0		
087	183_087	SAMPLE	301176-001		Soil	261040	07/04/18 07:07	10.0		
088	183_088	IB					07/04/18 07:35	1.0		
089	183_089	SAMPLE	301076-006		Soil	261063	07/04/18 08:04	1.0		
090	183_090	SAMPLE	301076-007		Soil	261063	07/04/18 08:32	1.0		
091	183_091	SAMPLE	301076-008		Soil	261063	07/04/18 09:01	1.0		
092	183_092	SAMPLE	301076-009		Soil	261063	07/04/18 09:29	1.0		
093	183_093	SAMPLE	301076-010		Soil	261063	07/04/18 09:58	1.0		
094	183_094	SAMPLE	301076-011		Soil	261063	07/04/18 10:26	1.0		
095	183_095	SAMPLE	301076-012		Soil	261063	07/04/18 10:55	1.0		
096	183_096	SAMPLE	301076-013		Soil	261063	07/04/18 11:24	1.0		
097	183_097	CCV	DSL_1000				07/04/18 11:52	1.0	4	
098	183_098	CCV	MO_500				07/04/18 12:21	1.0	3	
099	183_099	X	CMARKER				07/04/18 12:49	1.0	1	
100	183_100	BLANK	QC938316		Soil	261112	07/04/18 13:17	1.0		
101	183_101	LCS	QC938317		Soil	261112	07/04/18 13:45	1.0		
102	183_102	MSS	301147-003		Soil	261112	07/04/18 14:13	3.0		11:BUNKC:12-40=27000
103	183_103	MS	QC938318		Soil	261112	07/04/18 14:42	3.0		8:BUNKC:12-40=19000
104	183_104	MSD	QC938319		Soil	261112	07/04/18 15:10	3.0		11:BUNKC:12-40=22000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B Begun : 07/02/18 06:17
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	183_105	SAMPLE	301147-004		Soil	261112	07/04/18 15:38	3.0		11:BUNKC:12-40=20000
106	183_106	IB					07/04/18 16:06	1.0		
107	183_107	SAMPLE	301147-005		Soil	261112	07/04/18 16:34	1.0		
108	183_108	SAMPLE	301147-006		Soil	261112	07/04/18 17:02	1.0		
109	183_109	SAMPLE	301147-007		Soil	261112	07/04/18 17:30	1.0		
110	183_110	SAMPLE	301148-001		Soil	261112	07/04/18 17:59	1.0		
111	183_111	MSS	301148-002		Soil	261112	07/04/18 18:27	1.0		
112	183_112	SAMPLE	301148-003		Soil	261112	07/04/18 18:55	1.0		
113	183_113	CCV	DSL_500				07/04/18 19:23	1.0	2	
114	183_114	CCV	MO_500				07/04/18 19:51	1.0	3	
115	183_115	X	CMARKER				07/04/18 20:19	1.0	1	
116	183_116	SAMPLE	301076-018		Soil	261063	07/04/18 20:48	1.0		
117	183_117	SAMPLE	301076-019		Soil	261063	07/04/18 21:16	1.0		
118	183_118	SAMPLE	301076-020		Soil	261063	07/04/18 21:45	1.0		
119	183_119	SAMPLE	301076-021		Soil	261063	07/04/18 22:13	1.0		
120	183_120	SAMPLE	301176-015		Soil	261040	07/04/18 22:42	10.0		2:BUNKC:12-40=5500
121	183_121	IB					07/04/18 23:10	1.0		
122	183_122	SAMPLE	301076-022		Soil	261063	07/04/18 23:38	1.0		
123	183_123	SAMPLE	301076-023		Soil	261063	07/05/18 00:07	1.0		
124	183_124	SAMPLE	301176-006		Soil	261040	07/05/18 00:35	100.0		
125	183_125	IB					07/05/18 01:04	1.0		
126	183_126	IB					07/05/18 01:32	1.0		
127	183_127	SAMPLE	301176-014		Soil	261040	07/05/18 02:00	10.0		2:BUNKC:12-40=6200
128	183_128	IB					07/05/18 02:29	1.0		
129	183_129	SAMPLE	301229-001		Soil	261112	07/05/18 02:57	1.0		
130	183_130	CCV	DSL_1000				07/05/18 03:26	1.0	4	
131	183_131	CCV	MO_500				07/05/18 03:54	1.0	3	
132	183_132	X	CMARKER				07/05/18 04:23	1.0	1	

CB1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 5.

WA1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 6 through 14.

WA1 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 15 through 62.

CB1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 63 through 132.

SAMPLE PREPARATION SUMMARY

Batch # : 261072
 Started By : ECI
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 02-JUL-2018 18:15
 Spike #2 ID : S37163

Analysis : TEH
 Finished By : ECI
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
301104-001		Soil	49.73	5	1	0.1005		.5				TEHM	
301104-002		Soil	49.56	5	1	0.1009		.5				TEHM	
301104-003		Soil	49.79	5	1	0.1004		.5				TEHM	
301104-004		Soil	50.15	5	1	0.0997		.5				TEHM	
301104-005		Soil	49.67	5	1	0.1007		.5				TEHM	See comment 1 below
301104-006		Soil	50.13	5	1	0.09974		.5				TEHM	See comment 2 below
301104-007		Soil	49.79	5	1	0.1004		.5				TEHM	See comment 3 below
301104-008		Soil	50.29	5	1	0.09942		.5				TEHM	See comment 4 below
301104-009		Soil	49.85	5	1	0.1003		.5				TEHM	See comment 5 below
301104-010		Soil	49.98	5	1	0.1000		.5				TEHM	See comment 6 below
301104-011		Soil	50.36	5	1	0.09929		.5				TEHM	See comment 7 below
301104-012		Soil	49.58	5	1	0.1008		.5				TEHM	See comment 8 below
301104-013		Soil	49.87	5	1	0.1003		.5				TEHM	See comment 9 below
301104-014		Soil	49.85	5	1	0.1003		.5				TEHM	See comment 10 below
301124-001		Soil	49.58	5	1	0.1008		.5				TEHM	
301137-003		Soil	49.59	5	1	0.1008		.5				TEHM	See comment 11 below
301170-001		Soil	50.17	5	1	0.09966		.5				TEHM	
301170-002		Soil	49.85	5	1	0.1003		.5				TEHM	
301170-003		Soil	49.78	5	1	0.1004		.5				TEHM	
301176-020		Soil	49.89	5	1	0.1002		.5				TEHM	See comment 12 below
QC938164	BLANK	Soil	50	5	1	0.1000		.5					
QC938165	LCS	Soil	50	5	1	0.1000		.5	1				
QC938166	MS	Soil	49.56	5	1	0.1009		.5	1				
QC938167	MSD	Soil	49.77	5	1	0.1005		.5	1				

Comment 1: Prepped 03-JUL-2018 16:15; Transferred weight from SA3210
 Comment 2: Prepped 03-JUL-2018 16:15; Transferred weight from SA3211
 Comment 3: Prepped 03-JUL-2018 16:15; Transferred weight from SA3212
 Comment 4: Prepped 03-JUL-2018 16:15; Transferred weight from SA3213
 Comment 5: Prepped 03-JUL-2018 16:15; Transferred weight from SA3214
 Comment 6: Prepped 03-JUL-2018 16:15; Transferred weight from SA3215
 Comment 7: Prepped 03-JUL-2018 16:15; Transferred weight from SA3216
 Comment 8: Prepped 03-JUL-2018 16:15; Transferred weight from SA3217
 Comment 9: Prepped 03-JUL-2018 16:15; Transferred weight from SA3218
 Comment 10: Prepped 03-JUL-2018 16:15; Transferred weight from SA3219
 Comment 11: Prepped 03-JUL-2018 16:15; comp of 301137(001-002)@55 g ea
 Comment 12: Prepped 03-JUL-2018 16:15; Transferred weight from SA3155

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

LIMS Batch No: 261072
 LIMS Analysis: TEHM
 Date Extracted: 7/2/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
301104-001	D	49.73	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
|	2	49.56	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
	3	49.79	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
	4	50.15	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
	5	49.58	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
301124-001	C	49.58	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
301170-001	B	50.17	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
|	2	49.85	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
	3	49.78	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		MSS
MB QC 958164	NA	50.00	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
10 LCS	5	50.00	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
MS	6	49.56	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
MSD	7	49.77	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
301104-005	D	Transferred	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		Alo ECL 7/3/18 1615
|	6		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
	7		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
	8		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
	9		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
	10		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
	11		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
	12		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
13		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____			
14		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____			
301137-003	COMP	49.59	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		Comp. of 301137-001, 2 @ 55g. ea.
301176-020	A	Transferred	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
			<input type="checkbox"/> 5.0 <input type="checkbox"/> _____		CBI 7/5/18

MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-15 Has been calibrated? Yes No

Mfg & Lot # / LIMS # / Time Date/Initials

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples

Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄

0.5 mL of Surrogate solution was added to all samples

1.0 mL of Spike solution was added to all spikes

1:1 CH₂Cl₂ (lot# EM5016):Acetone (lot# FC1617A) was added to all

Solvent added at (time)

Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone

Extracts filtered through baked, rinsed powdered Na₂SO₄

Concentrated to final volume in boiling H₂O bath

Relinquished to TEH Department

EM161285202	6/26/18	PLL	7/2/18
S37162B			
S37163F			
1815/1615			
EM0677C502			

Chy chiz 7/2/18
 Extraction Chemist / Date

Continued from page —
 Continued on page —

Chy chiz 7/5/18
 Reviewed by / Date

Laboratory Job Number 301104

ANALYTICAL REPORT

Wet Chemistry

Matrix: Soil

Percent Moisture Summary Report

Batch: 260972
 Date: 06/28/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
301104-001	11.38	17.99	17.00	85	15
301104-002	11.05	17.81	16.78	85	15
301104-003	11.29	16.66	15.82	84	16
301104-004	11.34	17.77	16.87	86	14
301104-005	11.16	18.77	17.37	82	18
301104-006	11.26	17.65	16.72	85	15
301104-007	10.95	18.54	17.23	83	17
301104-008	11.32	17.18	16.39	87	13
301104-009	10.97	18.93	17.72	85	15
301104-010	11.18	17.77	16.86	86	14
301104-011	11.21	17.46	16.50	85	15
301104-012	11.27	19.13	18.55	93	7
301104-013	11.34	18.24	17.35	87	13
301104-014	11.12	17.25	16.48	87	13
301107-002	11.22	17.13	16.34	87	13
301107-003	11.31	18.34	17.49	88	12
301107-004	10.92	17.50	15.97	77	23
301107-005	11.32	17.82	15.96	71	29
301107-006	11.27	17.89	16.04	72	28
QC937768	11.12	16.73	15.98	87	13
of 301107-002			RPD:	0.0%	0.0%

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

LIMS Batch #: 260972
 Date: 6-28-18

Page: 66
 Benchbook#: BK 4277

Balance ID: B-13
 calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLK	72	11.28	Ø	11.28	
301104-001 D	65	11.38	17.99	17.00	
-002	24	11.05	17.81	16.78	
-003	87	11.29	16.66	15.82	
-004	81	11.34	17.77	16.87	
-005	75	11.16	18.77	17.37	
-006	68	11.26	17.65	16.72	
-007	7	10.95	18.54	17.23	
-008	85	11.32	17.18	16.39	
-009	3	10.97	18.93	17.72	
-010	80	11.18	17.77	16.86	
-011	69	11.21	17.46	16.50	
-012	9	11.27	19.13	18.55	
-013	16	11.34	18.24	17.35	
-014	13	11.12	17.25	16.48	
301107-002 Y	83	11.22	17.13	16.34	
-003 I	5	11.31	18.34	17.49	
-004	8	10.92	17.50	15.97	
-005	2	11.52	17.82	15.96	
-006	70	11.27	17.89	16.04	
SOUP -002 Y	1	11.12	16.73	15.98	
					MW 6-29-18

	In	Out	In-2	Out-2
Date:	6-28-18	6-29-18		
Time:	2355	2218		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MW	MW		

MW 6-29-18

MW 6-28-18
Analyst Initials / Date

Reviewed Online / See LIMS

DATE	O.Z.G	SET#	500.G	SET#	INITIALS
6-10-18	0.20	40417	499.94	28659	VV
6-11-18	0.20	40417	499.93	28659	MV
6-12-18	0.20	40417	499.95	28659	MV
6-13-18	0.20	40417	499.94	28659	MV
6-14-18	0.20	40417	499.93	28659	VOR
6-15-18	0.20	40417	499.93	28659	MV
6-16-18	0.20	40417	499.94	28659	MV
6-17-18	0.20	40417	499.93	28659	VV
6-18-18	0.20	40417	499.96	28659	MV
6-19-18	0.20	40417	499.95	28659	MV
6-20-18	0.20	40417	499.93	28659	MV
6-21-18	0.20	40417	499.93	28659	MV
6-22-18	0.20	40417	499.94	28659	MV
6-23-18	0.20	40417	499.93	28659	MV
6-26-18	0.20	40417	499.96	28659	MV
6-27-18	0.20	40417	499.97	28659	MV
6-28-18	0.20	40417	499.95	28659	MV
6-29-18	0.20	40417	499.95	28659	MV

Continued on Page

Read and Understood By

Signed

Date

Signed

Date



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 301146 ANALYTICAL REPORT

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Avenue
Level : III

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
BR11-1SB019[3]	301146-001	BR11-1SB010[25]	301146-017
BR11-1SB019[5]	301146-002	BR11-1SB010[30]	301146-018
BR11-1SB019[7]	301146-003	BR11-1SB010[35]	301146-019
BR11-1SB019[10]	301146-004	BR11-1SB010[17.5]	301146-020
BR11-1SB019[15]	301146-005	DUP06282018-03	301146-021
BR11-1SB019[20]	301146-006	BR11-1SB018[3]	301146-022
BR11-1SB019[25]	301146-007	BR11-1SB018[5]	301146-023
BR11-1SB019[30]	301146-008	BR11-1SB018[7]	301146-024
BR11-1SB019[35]	301146-009	BR11-1SB018[10]	301146-025
DUP06282018-01	301146-010	BR11-1SB018[15]	301146-026
BR11-1SB010[3]	301146-011	BR11-1SB018[20]	301146-027
BR11-1SB010[5]	301146-012	BR11-1SB018[25]	301146-028
BR11-1SB010[7]	301146-013	BR11-1SB018[30]	301146-029
BR11-1SB010[10]	301146-014	BR11-1SB018[35]	301146-030
BR11-1SB010[15]	301146-015	DUP06282018-02	301146-031
BR11-1SB010[20]	301146-016		

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Mike Dahlquist
Project Manager

mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

Date: 07/11/2018

CASE NARRATIVE

Laboratory number: 301146
Client: TRC Solutions
Project: 285830.02.01
Location: Riley Avenue
Request Date: 06/28/18
Samples Received: 06/28/18

This data package contains sample and QC results for thirty one soil samples, requested for the above referenced project on 06/28/18. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

High surrogate recoveries were observed for bromofluorobenzene (FID) in a number of samples.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 261106; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 261153; this analyte was not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 261155; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 261200; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 261244; this analyte was detected in samples at a level at least 10 times that of the blank.

No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

Matrix spikes QC938517, QC938518 (batch 261170) were not reported because the parent sample required a dilution that would have diluted out the spikes.

Many samples were diluted due to the dark and viscous nature of the sample extracts.

No other analytical problems were encountered.

Moisture (ASTM D2216-98/CLP):

No analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 301146
 Date Received: 6-28-18

Client: TRC
 Project: Riley Avenue

Section 2: Samples received in a cooler? Yes, how many? _____ No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun # A, or B
 Samples received on ice directly from the field. Cooling process had begun.
 If in cooler: Date Opened 6-28-18 By (print) TKY (sign) TKY
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: Important : Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used : Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 7.3, #2: 2.4, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?	<input checked="" type="checkbox"/>		
If YES, what time were they transferred to freezer? <u>14:32</u>			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?			<input checked="" type="checkbox"/>
Did you change the hold time in LIMS for preserved terracores?	<input checked="" type="checkbox"/>		
Are bubbles > 6mm absent in VOA samples?			<input checked="" type="checkbox"/>
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			<input checked="" type="checkbox"/>
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check? pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:
 Explanations/Comments: _____

Date Logged in 6/29/18 By (print) VS (sign) VS
 Date Labeled 6-29-18 By (print) TKY (sign) TKY

Detections Summary for 301146

Results for any subcontracted analyses are not included in this summary.

Client : TRC Solutions
 Project : 285830.02.01
 Location : Riley Avenue

Client Sample ID : BR11-1SB019[3] Laboratory Sample ID : 301146-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.053	J	0.18	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	4.6	Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	29		5.6	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB019[5] Laboratory Sample ID : 301146-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.040	J	0.17	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.57	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB019[7] Laboratory Sample ID : 301146-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.052	J	0.17	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.77	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB019[10] Laboratory Sample ID : 301146-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.043	J	0.18	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.0	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB019[15] Laboratory Sample ID : 301146-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.032	J	0.16	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.90	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB019[20] Laboratory Sample ID : 301146-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.097	J	0.18	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.1	J,Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	2.8	J	5.7	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB019[25]

Laboratory Sample ID : 301146-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.033	J	0.15	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.63	J,Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB019[30]

Laboratory Sample ID : 301146-008

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.058	J	0.17	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	5.5	Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	27		5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB019[35]

Laboratory Sample ID : 301146-009

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.039	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.68	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : DUP06282018-01

Laboratory Sample ID : 301146-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.029	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.48	J,Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB010[3]

Laboratory Sample ID : 301146-011

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.034	J	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	110	Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	120		5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB010[5]

Laboratory Sample ID : 301146-012

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	66	Y	4.1	0.26	mg/Kg	Dry	25.00	EPA 8015B	EPA 5035
Diesel C10-C24	18,000		120	36	mg/Kg	Dry	100.0	EPA 8015B	EPA 3550C
Motor Oil C24-C36	1,600	Y	590	180	mg/Kg	Dry	100.0	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB010[7]

Laboratory Sample ID : 301146-013

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	78	Y	4.5	0.29	mg/Kg	Dry	25.00	EPA 8015B	EPA 5035
Diesel C10-C24	4,200		23	7.2	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550C
Motor Oil C24-C36	340	Y	120	35	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB010[10]

Laboratory Sample ID : 301146-014

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	55	Y	4.5	0.29	mg/Kg	Dry	25.00	EPA 8015B	EPA 5035
Diesel C10-C24	2,200		23	7.2	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550C
Motor Oil C24-C36	180	Y	120	36	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB010[15]

Laboratory Sample ID : 301146-015

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	57	Y	3.9	0.25	mg/Kg	Dry	25.00	EPA 8015B	EPA 5035
Diesel C10-C24	3,600		23	7.1	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550C
Motor Oil C24-C36	290	Y	120	35	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB010[20]

Laboratory Sample ID : 301146-016

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	130	Y	4.3	0.27	mg/Kg	Dry	25.00	EPA 8015B	EPA 5035
Diesel C10-C24	15,000		58	18	mg/Kg	Dry	50.00	EPA 8015B	EPA 3550C
Motor Oil C24-C36	1,400	Y	290	87	mg/Kg	Dry	50.00	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB010[25]

Laboratory Sample ID : 301146-017

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	58	Y	4.3	0.28	mg/Kg	Dry	25.00	EPA 8015B	EPA 5035
Diesel C10-C24	3,500		24	7.3	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550C
Motor Oil C24-C36	270	Y	120	36	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB010[30]

Laboratory Sample ID : 301146-018

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.18	J,Y	0.18	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.82	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB010[35]

Laboratory Sample ID : 301146-019

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.048	J	0.24	0.015	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	26		1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	2.8	J,Y	6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB010[17.5]

Laboratory Sample ID : 301146-020

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	170	Y	6.3	0.40	mg/Kg	Dry	40.00	EPA 8015B	EPA 5035
Diesel C10-C24	10,000		23	7.1	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550C
Motor Oil C24-C36	880	Y	120	35	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550C

Client Sample ID : DUP06282018-03

Laboratory Sample ID : 301146-021

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	120	Y	6.7	0.43	mg/Kg	Dry	40.00	EPA 8015B	EPA 5035
Diesel C10-C24	7,700		58	18	mg/Kg	Dry	50.00	EPA 8015B	EPA 3550C
Motor Oil C24-C36	620	Y	290	88	mg/Kg	Dry	50.00	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB018[3]

Laboratory Sample ID : 301146-022

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.050	J	0.17	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	35	Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	32		6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB018[5]

Laboratory Sample ID : 301146-023

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.058	J	0.19	0.014	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	36	Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C
Motor Oil C24-C36	39		5.7	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB018[7]

Laboratory Sample ID : 301146-024

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	3.2	Y	0.17	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1,100		12	3.6	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550C
Motor Oil C24-C36	94	Y	59	18	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB018[10]

Laboratory Sample ID : 301146-025

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	44	Y	4.4	0.28	mg/Kg	Dry	25.00	EPA 8015B	EPA 5035
Diesel C10-C24	1,000		12	3.6	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550C
Motor Oil C24-C36	81	Y	58	18	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB018[15]

Laboratory Sample ID :

301146-026

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	32	Y	4.4	0.12	mg/Kg	Dry	25.00	EPA 8015B	EPA 5035
Diesel C10-C24	980		12	3.6	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550C
Motor Oil C24-C36	82	Y	59	18	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB018[20]

Laboratory Sample ID :

301146-027

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.096	J,Y	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	3.8	Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB018[25]

Laboratory Sample ID :

301146-028

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.036	J,Y	0.16	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.2	Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB018[30]

Laboratory Sample ID :

301146-029

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.036	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.3	Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : BR11-1SB018[35]

Laboratory Sample ID :

301146-030

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.034	J	0.17	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.69	J,Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550C

Client Sample ID : DUP06282018-02

Laboratory Sample ID :

301146-031

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	63	Y	4.3	0.12	mg/Kg	Dry	25.00	EPA 8015B	EPA 5035
Diesel C10-C24	2,200		12	3.6	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550C
Motor Oil C24-C36	160	Y	59	18	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550C

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Laboratory Job Number 301146

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

Matrix: Soil

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID: BR11-1SB019[3] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261106
 Lab ID: 301146-001 Analyzed: 07/04/18
 Moisture: 11%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.053 J	0.18	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	64-134

Field ID: BR11-1SB019[5] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261106
 Lab ID: 301146-002 Analyzed: 07/04/18
 Moisture: 16%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.040 J	0.17	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-134

Field ID: BR11-1SB019[7] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261106
 Lab ID: 301146-003 Analyzed: 07/04/18
 Moisture: 16%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.052 J	0.17	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	64-134

Field ID: BR11-1SB019[10] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261106
 Lab ID: 301146-004 Analyzed: 07/04/18
 Moisture: 16%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.043 J	0.18	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	74	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID: BR11-1SB019[15] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261106
 Lab ID: 301146-005 Analyzed: 07/04/18
 Moisture: 16%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.032 J	0.16	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	64-134

Field ID: BR11-1SB019[20] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261106
 Lab ID: 301146-006 Analyzed: 07/04/18
 Moisture: 13%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.097 J	0.18	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	64-134

Field ID: BR11-1SB019[25] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261106
 Lab ID: 301146-007 Analyzed: 07/04/18
 Moisture: 14%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.033 J	0.15	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	64-134

Field ID: BR11-1SB019[30] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261106
 Lab ID: 301146-008 Analyzed: 07/04/18
 Moisture: 14%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.058 J	0.17	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID: BR11-1SB019[35] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261153
 Lab ID: 301146-009 Analyzed: 07/05/18
 Moisture: 14%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.039 J	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	64-134

Field ID: DUP06282018-01 Diln Fac: 1.000
 Type: SAMPLE Batch#: 261153
 Lab ID: 301146-010 Analyzed: 07/05/18
 Moisture: 17%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.029 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	64-134

Field ID: BR11-1SB010[3] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261153
 Lab ID: 301146-011 Analyzed: 07/05/18
 Moisture: 16%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.034 J	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	116	64-134

Field ID: BR11-1SB010[5] Diln Fac: 25.00
 Type: SAMPLE Batch#: 261200
 Lab ID: 301146-012 Analyzed: 07/06/18
 Moisture: 15%

Analyte	Result	RL	MDL
Gasoline C7-C12	66 Y	4.1	0.26

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	128	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	BR11-1SB010[7]	Diln Fac:	25.00
Type:	SAMPLE	Batch#:	261200
Lab ID:	301146-013	Analyzed:	07/06/18
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	78 Y	4.5	0.29

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	130	64-134

Field ID:	BR11-1SB010[10]	Diln Fac:	25.00
Type:	SAMPLE	Batch#:	261200
Lab ID:	301146-014	Analyzed:	07/07/18
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	55 Y	4.5	0.29

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	125	64-134

Field ID:	BR11-1SB010[15]	Diln Fac:	25.00
Type:	SAMPLE	Batch#:	261200
Lab ID:	301146-015	Analyzed:	07/07/18
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	57 Y	3.9	0.25

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	116	64-134

Field ID:	BR11-1SB010[20]	Diln Fac:	25.00
Type:	SAMPLE	Batch#:	261200
Lab ID:	301146-016	Analyzed:	07/07/18
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	130 Y	4.3	0.27

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	143 *	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID: BR11-1SB010[25] Diln Fac: 25.00
 Type: SAMPLE Batch#: 261200
 Lab ID: 301146-017 Analyzed: 07/07/18
 Moisture: 16%

Analyte	Result	RL	MDL
Gasoline C7-C12	58 Y	4.3	0.28

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	126	64-134

Field ID: BR11-1SB010[30] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261200
 Lab ID: 301146-018 Analyzed: 07/06/18
 Moisture: 16%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.18 J Y	0.18	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	64-134

Field ID: BR11-1SB010[35] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261200
 Lab ID: 301146-019 Analyzed: 07/06/18
 Moisture: 17%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.048 J	0.24	0.015

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	64-134

Field ID: BR11-1SB010[17.5] Diln Fac: 40.00
 Type: SAMPLE Batch#: 261200
 Lab ID: 301146-020 Analyzed: 07/06/18
 Moisture: 14%

Analyte	Result	RL	MDL
Gasoline C7-C12	170 Y	6.3	0.40

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	144 *	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	DUP06282018-03	Diln Fac:	40.00
Type:	SAMPLE	Batch#:	261200
Lab ID:	301146-021	Analyzed:	07/06/18
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	120 Y	6.7	0.43

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	127	64-134

Field ID:	BR11-1SB018[3]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261155
Lab ID:	301146-022	Analyzed:	07/06/18
Moisture:	17%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.050 J	0.17	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	64-134

Field ID:	BR11-1SB018[5]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261155
Lab ID:	301146-023	Analyzed:	07/05/18
Moisture:	12%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.058 J	0.19	0.014

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	64-134

Field ID:	BR11-1SB018[7]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261155
Lab ID:	301146-024	Analyzed:	07/05/18
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	3.2 Y	0.17	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	150 *	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID: BR11-1SB018[10] Diln Fac: 25.00
 Type: SAMPLE Batch#: 261200
 Lab ID: 301146-025 Analyzed: 07/07/18
 Moisture: 15%

Analyte	Result	RL	MDL
Gasoline C7-C12	44 Y	4.4	0.28

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	116	64-134

Field ID: BR11-1SB018[15] Diln Fac: 25.00
 Type: SAMPLE Batch#: 261244
 Lab ID: 301146-026 Analyzed: 07/10/18
 Moisture: 15%

Analyte	Result	RL	MDL
Gasoline C7-C12	32 Y	4.4	0.12

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	156 *	64-134

Field ID: BR11-1SB018[20] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261200
 Lab ID: 301146-027 Analyzed: 07/06/18
 Moisture: 12%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.096 J Y	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	64-134

Field ID: BR11-1SB018[25] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261200
 Lab ID: 301146-028 Analyzed: 07/06/18
 Moisture: 15%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.036 J Y	0.16	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 RL= Reporting Limit
 MDL= Method Detection Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	BR11-1SB018[30]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261200
Lab ID:	301146-029	Analyzed:	07/06/18
Moisture:	15%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.036 J	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	64-134

Field ID:	BR11-1SB018[35]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261200
Lab ID:	301146-030	Analyzed:	07/06/18
Moisture:	16%		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.034 J	0.17	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	64-134

Field ID:	DUP06282018-02	Diln Fac:	25.00
Type:	SAMPLE	Batch#:	261244
Lab ID:	301146-031	Analyzed:	07/10/18
Moisture:	14%		

Analyte	Result	RL	MDL
Gasoline C7-C12	63 Y	4.3	0.12

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	64-134

Type:	BLANK	Batch#:	261106
Lab ID:	QC938296	Analyzed:	07/03/18
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.042 J	0.20	0.015

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	82	64-134

*= Value outside of QC limits; see narrative
 J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC938293	Batch#:	261106
Matrix:	Soil	Analyzed:	07/03/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2.000	2.134	107	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-134

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	261153
Units:	mg/Kg	Analyzed:	07/05/18
Diln Fac:	1.000		

Type: BS Lab ID: QC938438

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.153	115	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-134

Type: BSD Lab ID: QC938439

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.034	103	80-120	11	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-134

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	261155
Units:	mg/Kg	Analyzed:	07/05/18
Diln Fac:	1.000		

Type: BS Lab ID: QC938447

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.065	107	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	64-134

Type: BSD Lab ID: QC938448

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	0.9917	99	80-120	7	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-134

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	301206-001	Batch#:	261155
Matrix:	Soil	Sampled:	07/02/18
Units:	mg/Kg	Received:	07/02/18
Basis:	as received	Analyzed:	07/06/18

Type: MS Lab ID: QC938460

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.5166	10.20	10.18	95	46-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	64-134

Type: MSD Lab ID: QC938461

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.87	11.10	97	46-120	3	33

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	64-134

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	261200
Units:	mg/Kg	Analyzed:	07/06/18
Diln Fac:	1.000		

Type: BS Lab ID: QC938653

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.011	101	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	84	64-134

Type: BSD Lab ID: QC938654

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	0.9814	98	80-120	3	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	80	64-134

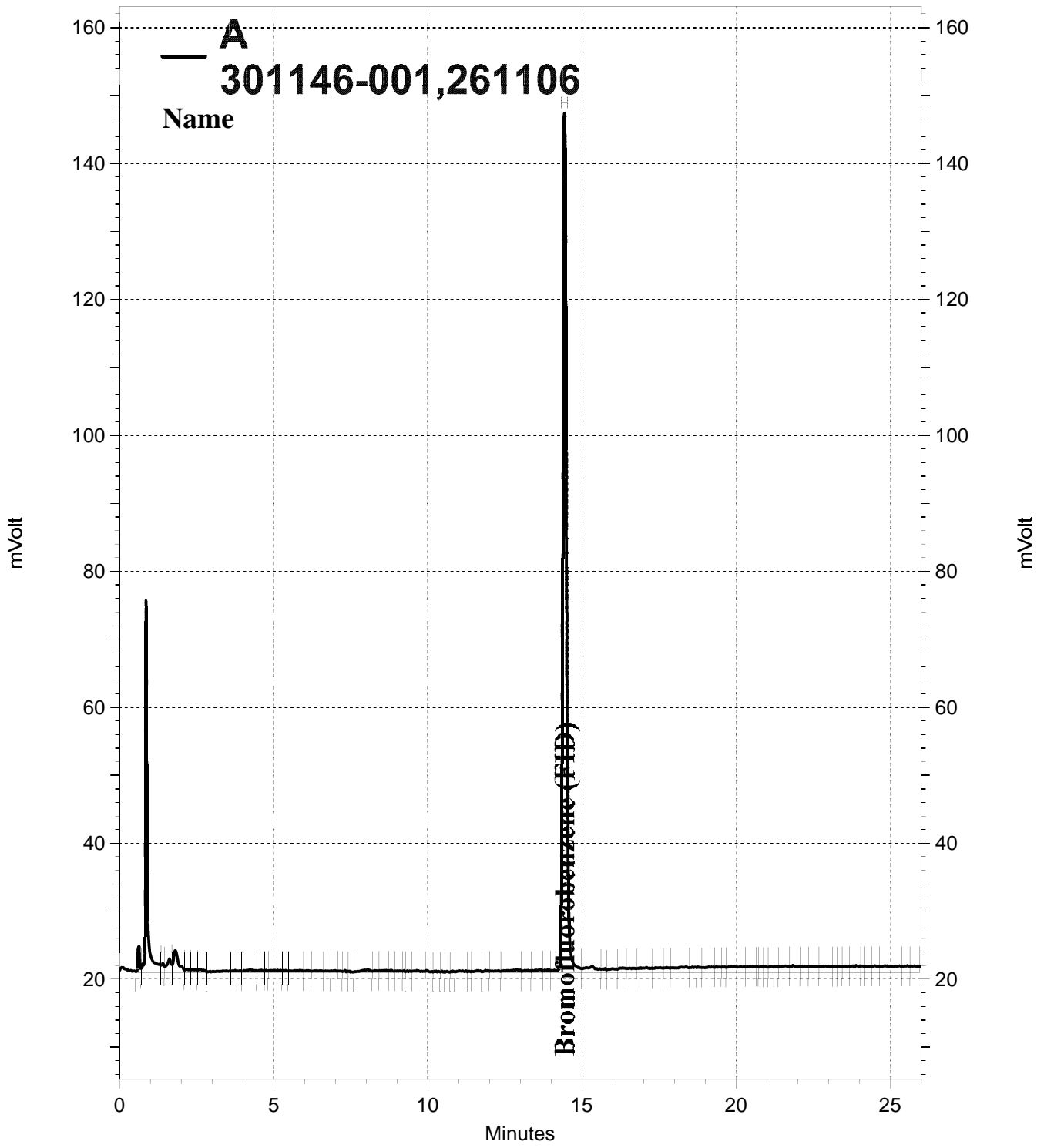
RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5035
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC938845	Batch#:	261244
Matrix:	Soil	Analyzed:	07/09/18
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.013	101	80-120

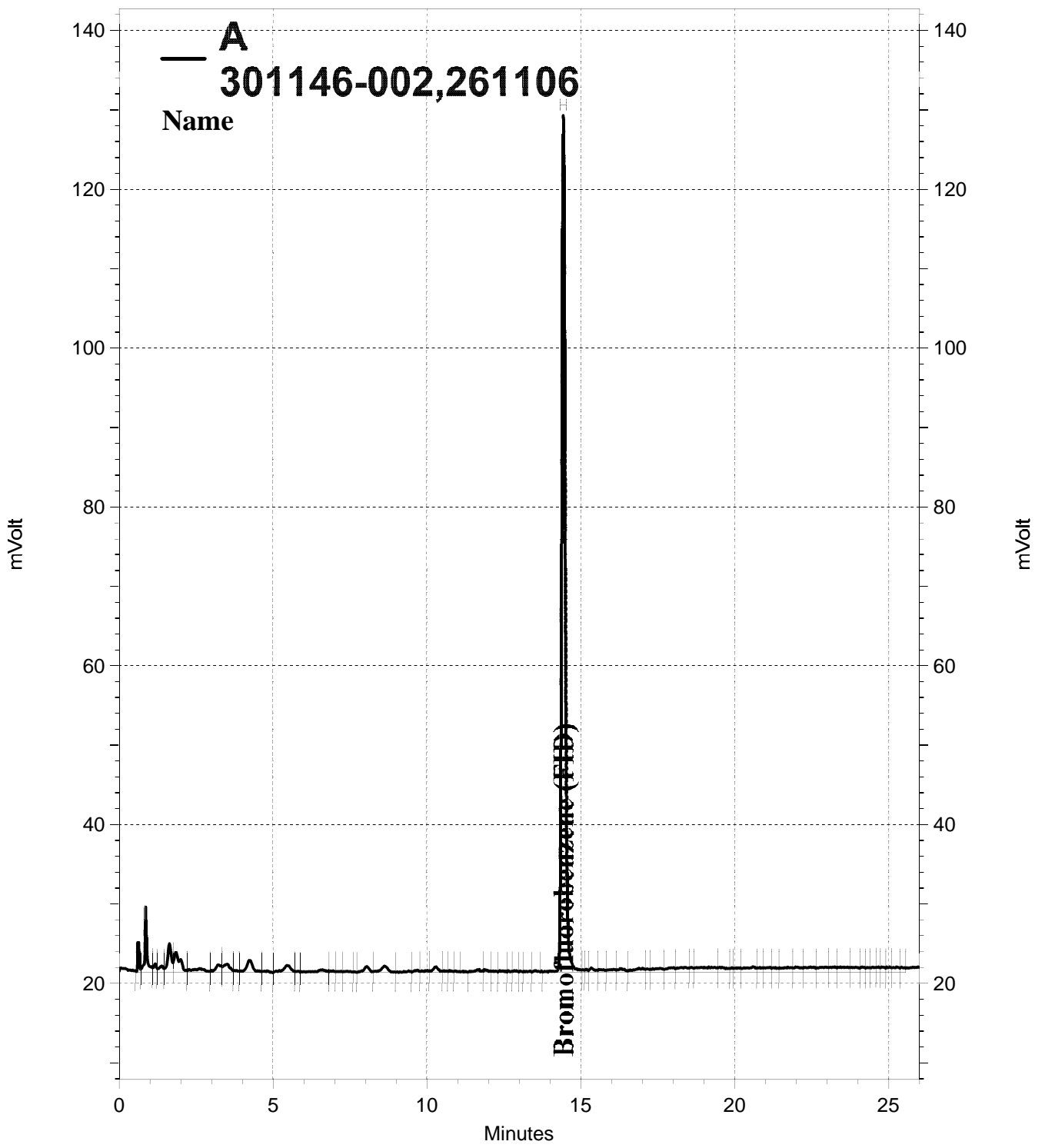
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	76	64-134



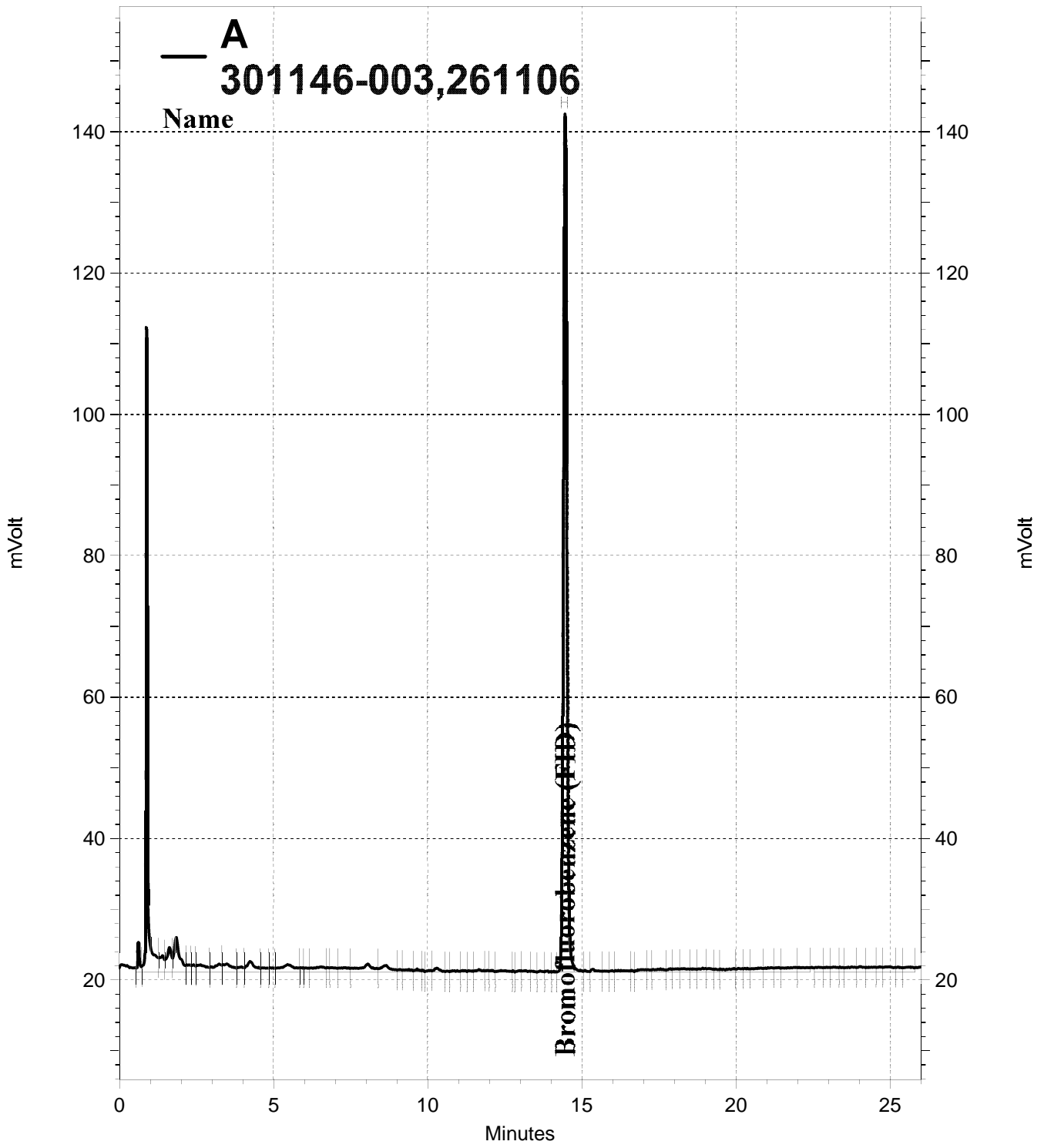
A
301146-001,261106
Name

Bromofluorebene (FID)

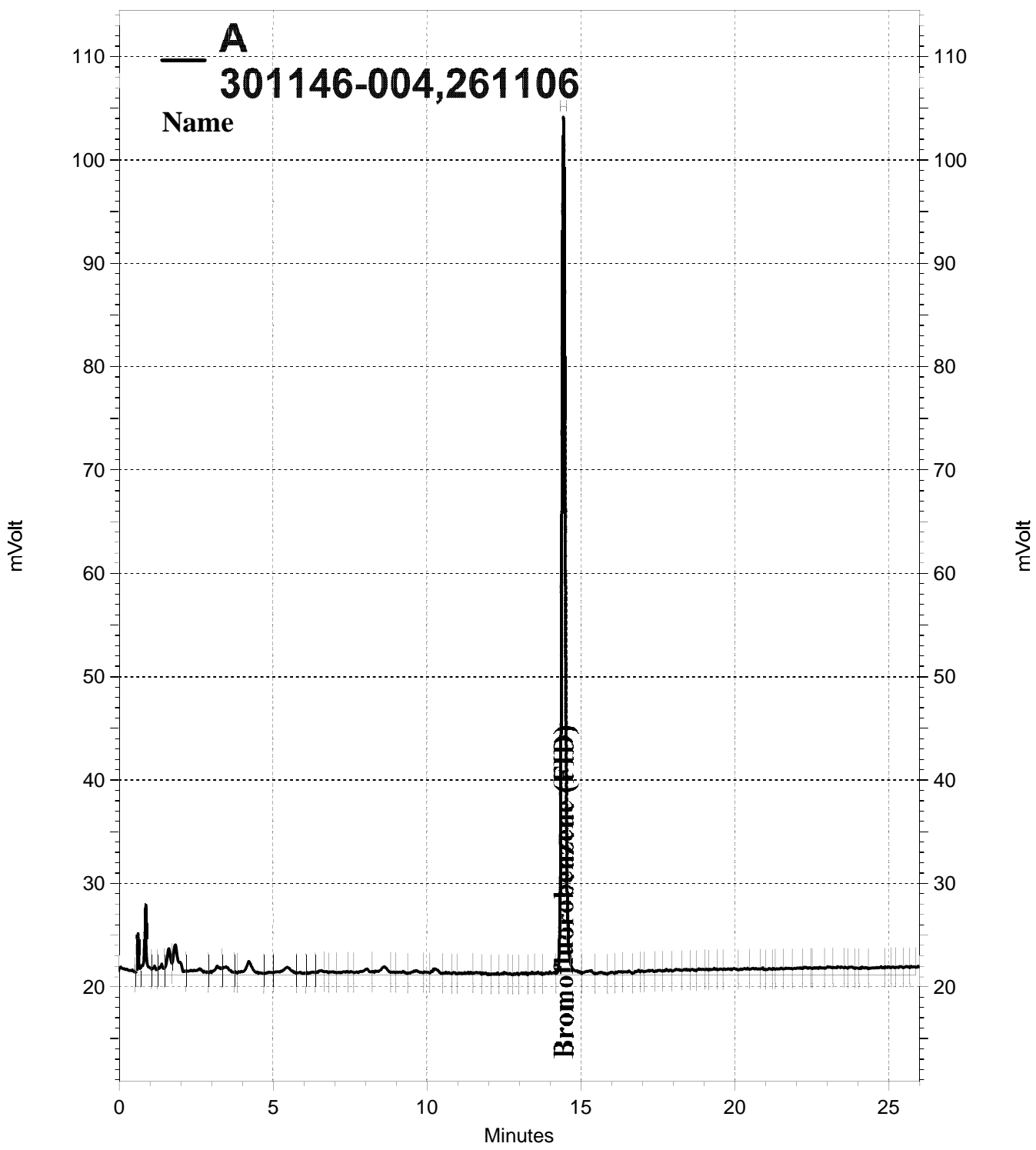
\\Lims\gdrive\ezchrom\Projects\GC19\Data\184-025, A



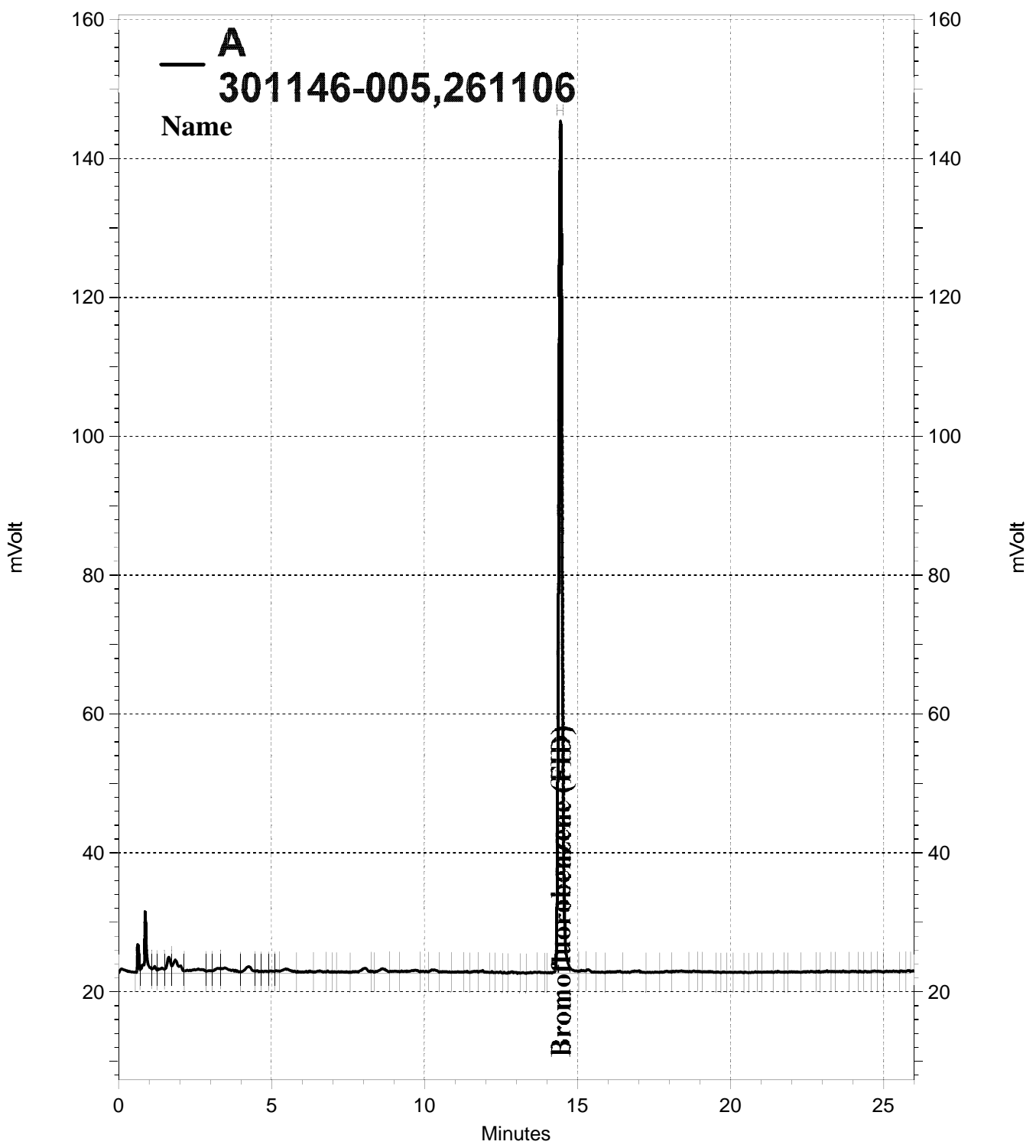
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\184-026, A



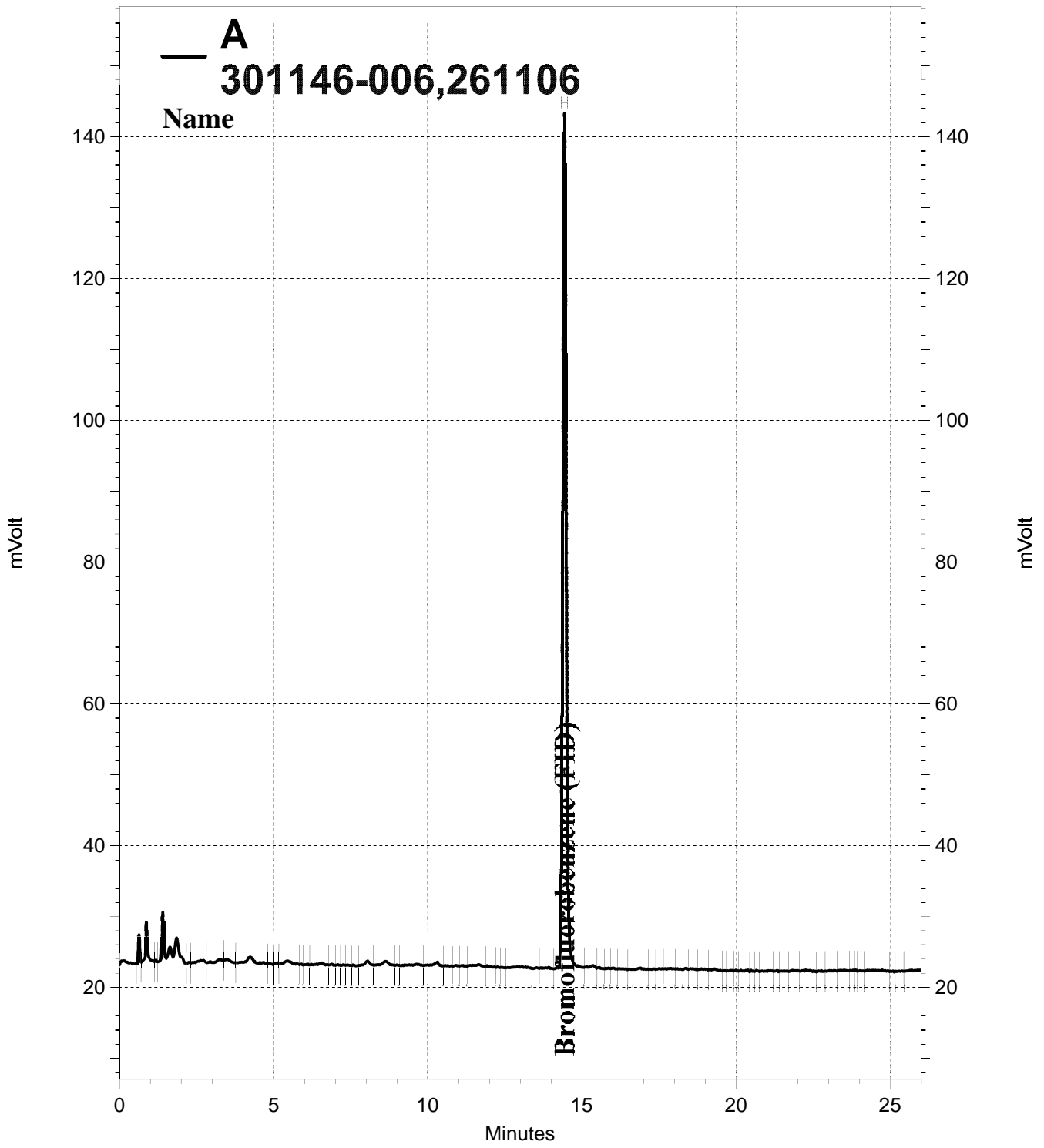
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\184-027, A



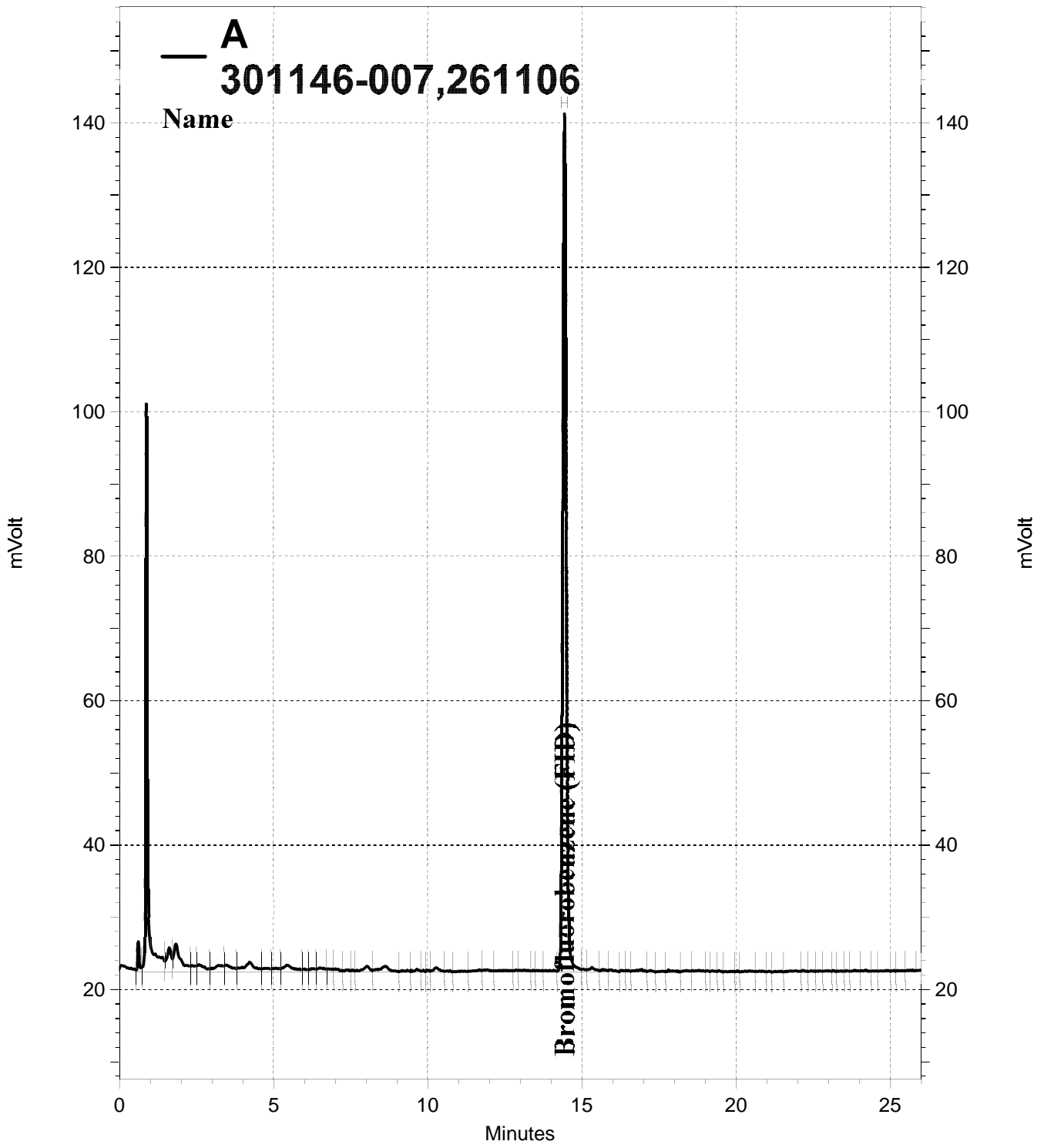
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\184-028, A



— \\Lims\gdrive\ezchrom\Projects\GC19\Data\184-037, A

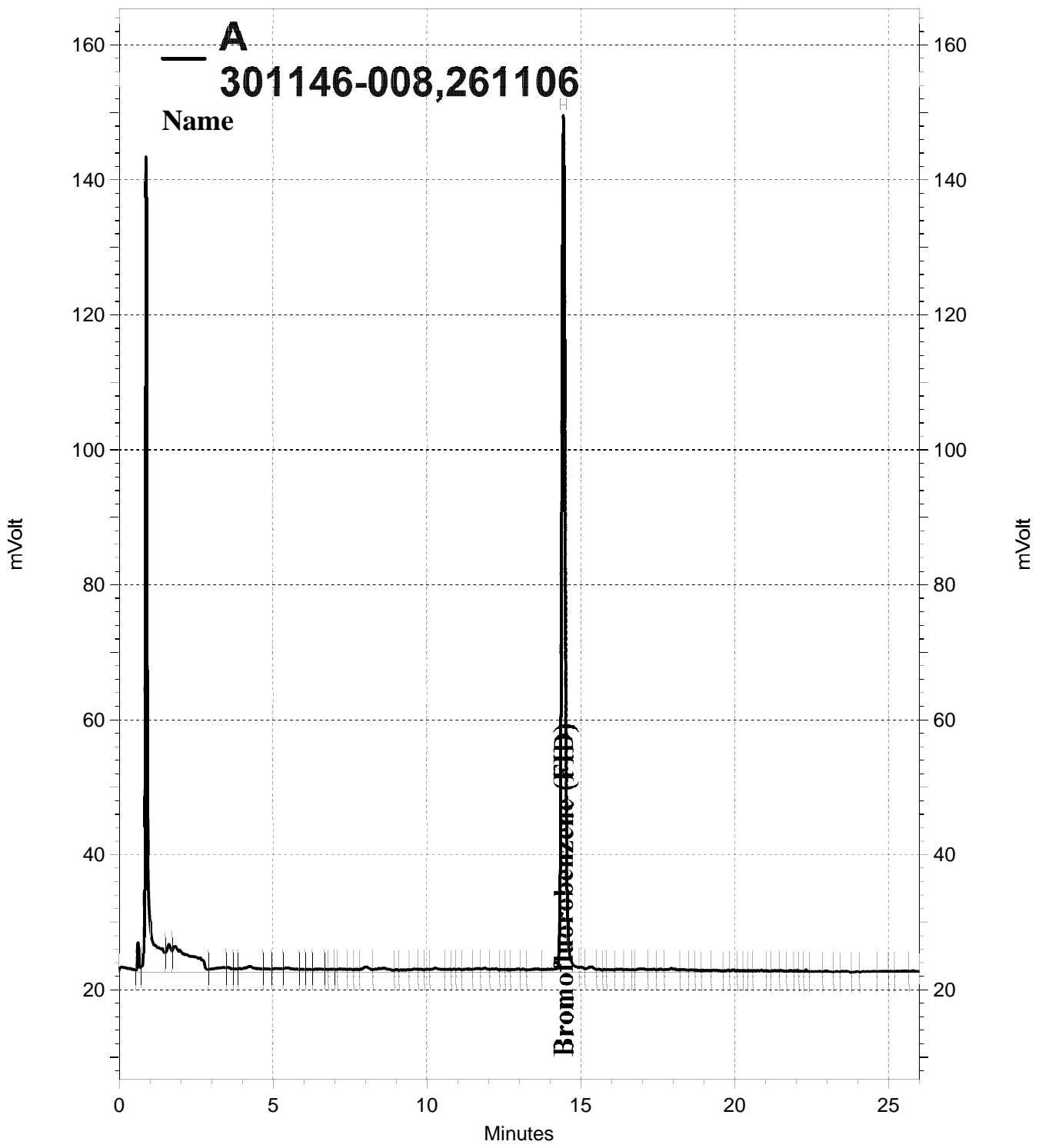


— \\Lims\gdrive\ezchrom\Projects\GC19\Data\184-038, A



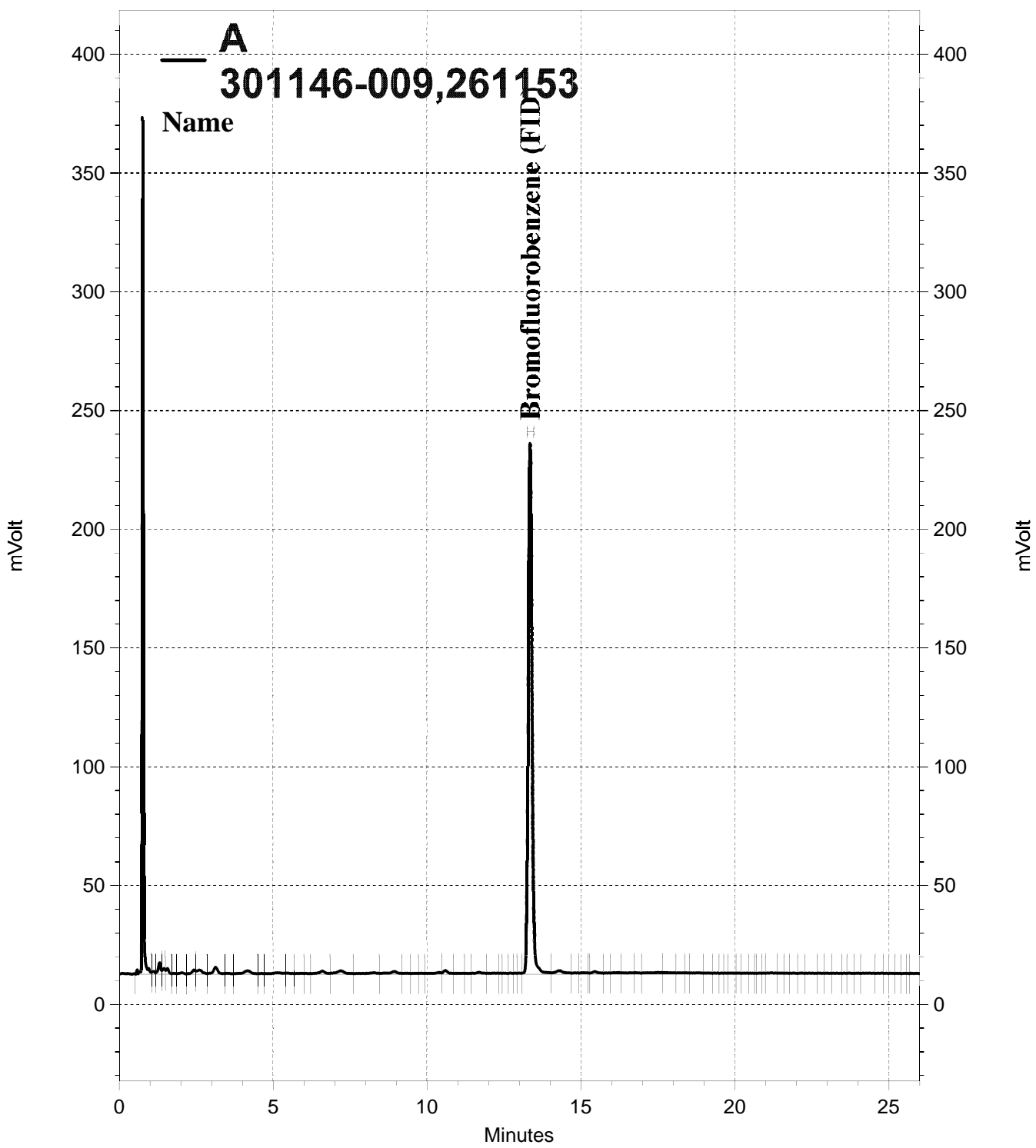
A
301146-007,261106
Name

— \\Lims\gdrive\ezchrom\Projects\GC19\Data\184-039, A

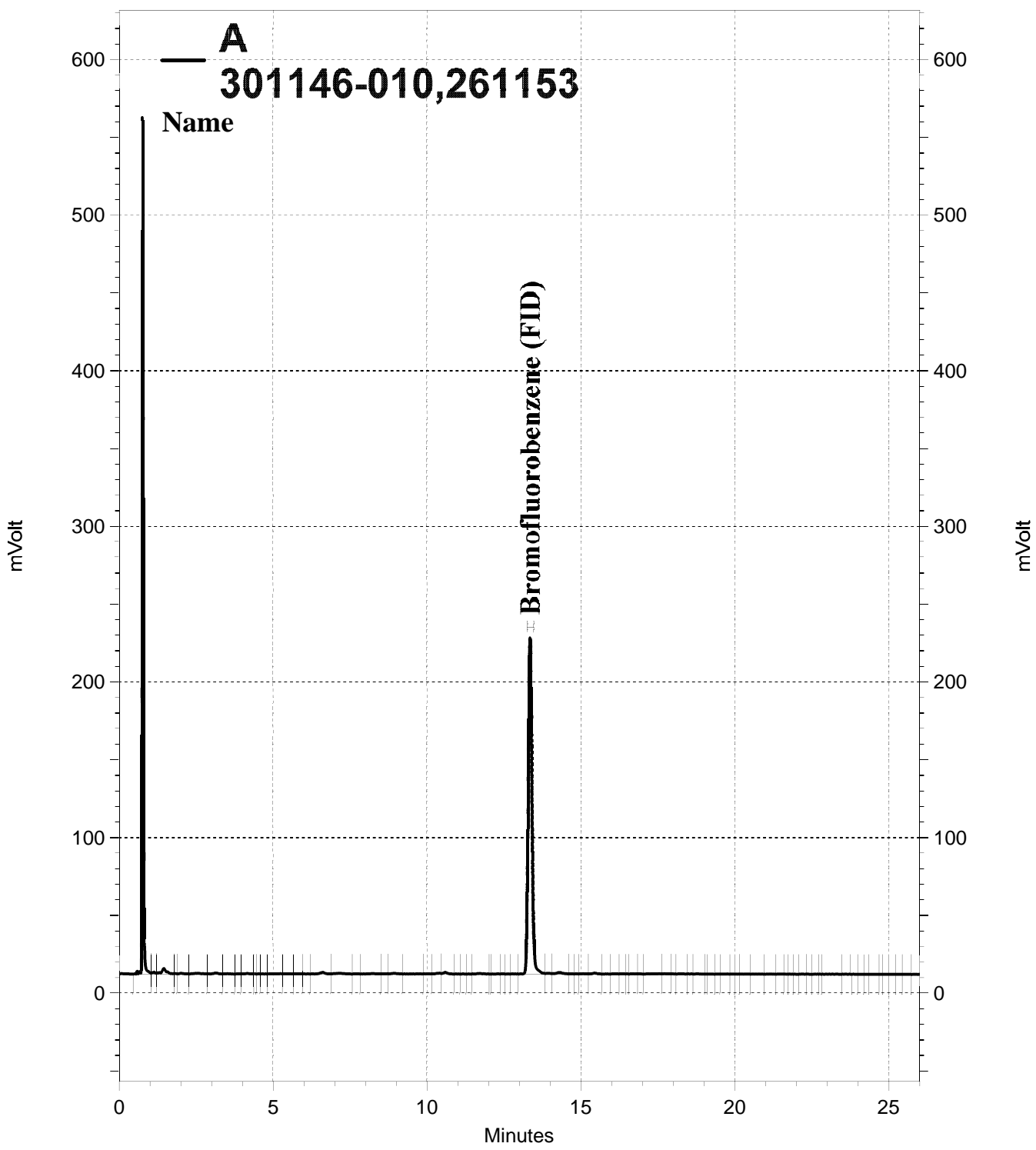


A
301146-008,261106
Name

— \\Lims\gdrive\ezchrom\Projects\GC19\Data\184-040, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\186-019, A

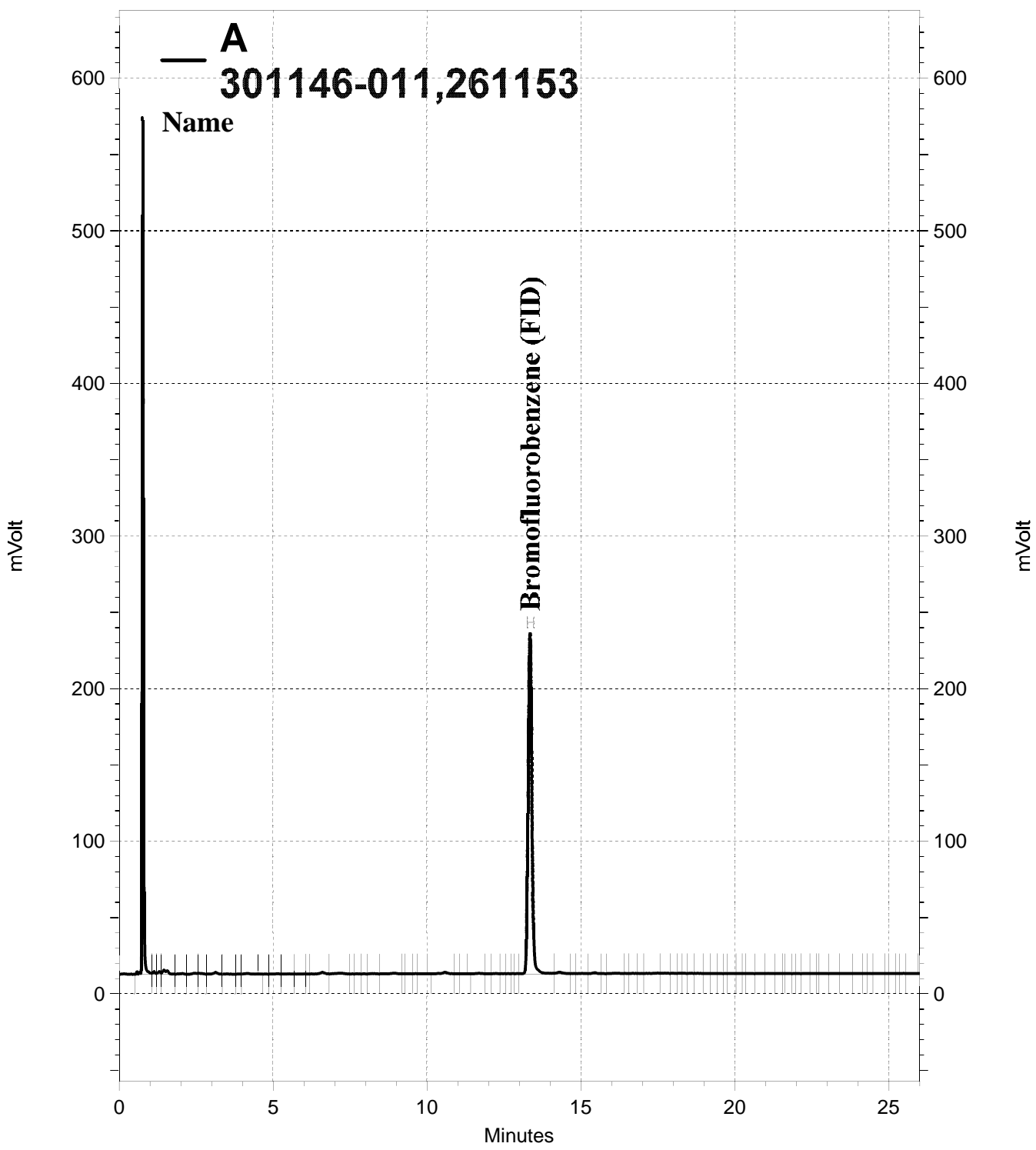


A
301146-010,261153

Name

Bromofluorobenzene (FID)

\\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\186-020, A

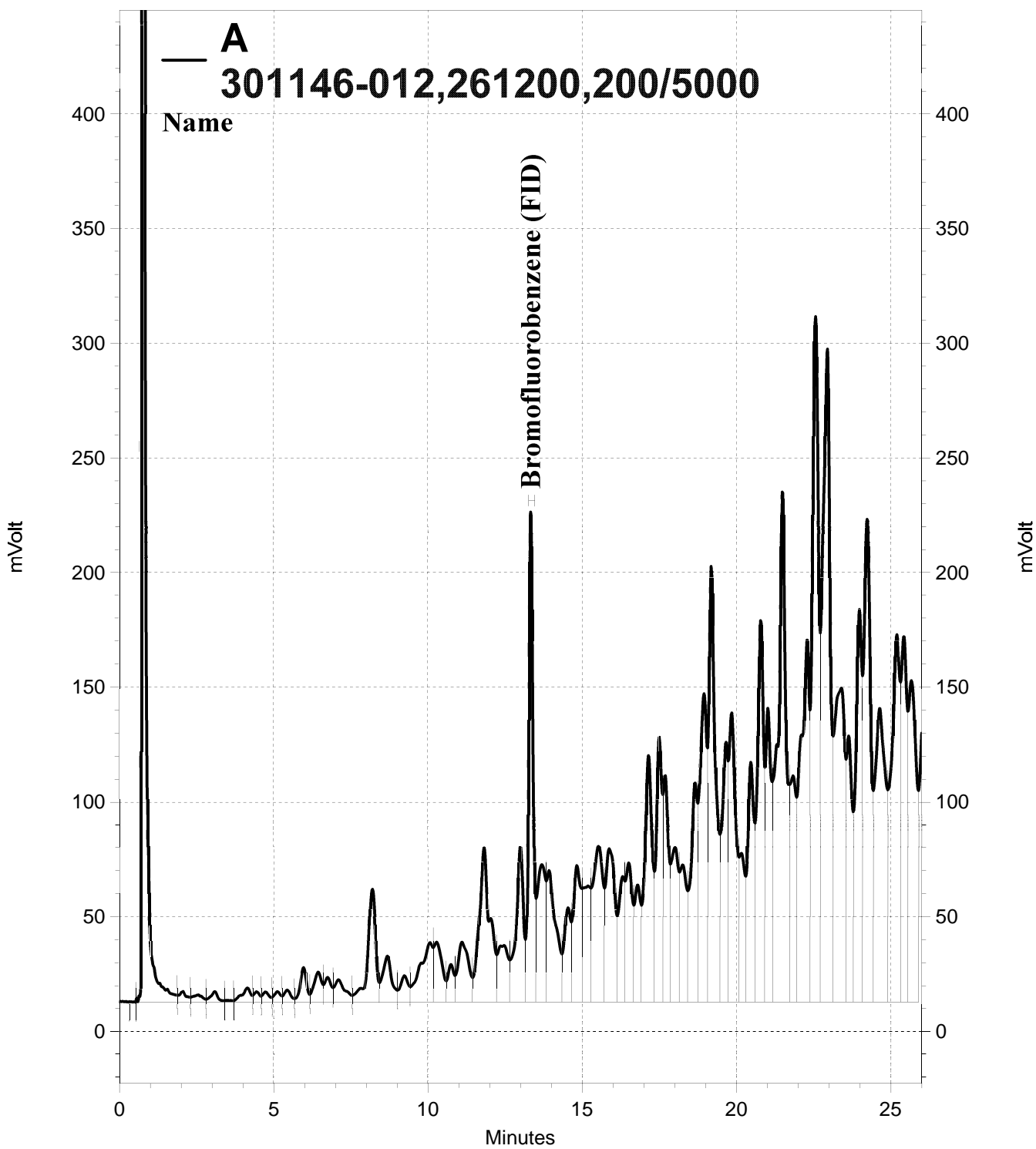


A
301146-011,261153

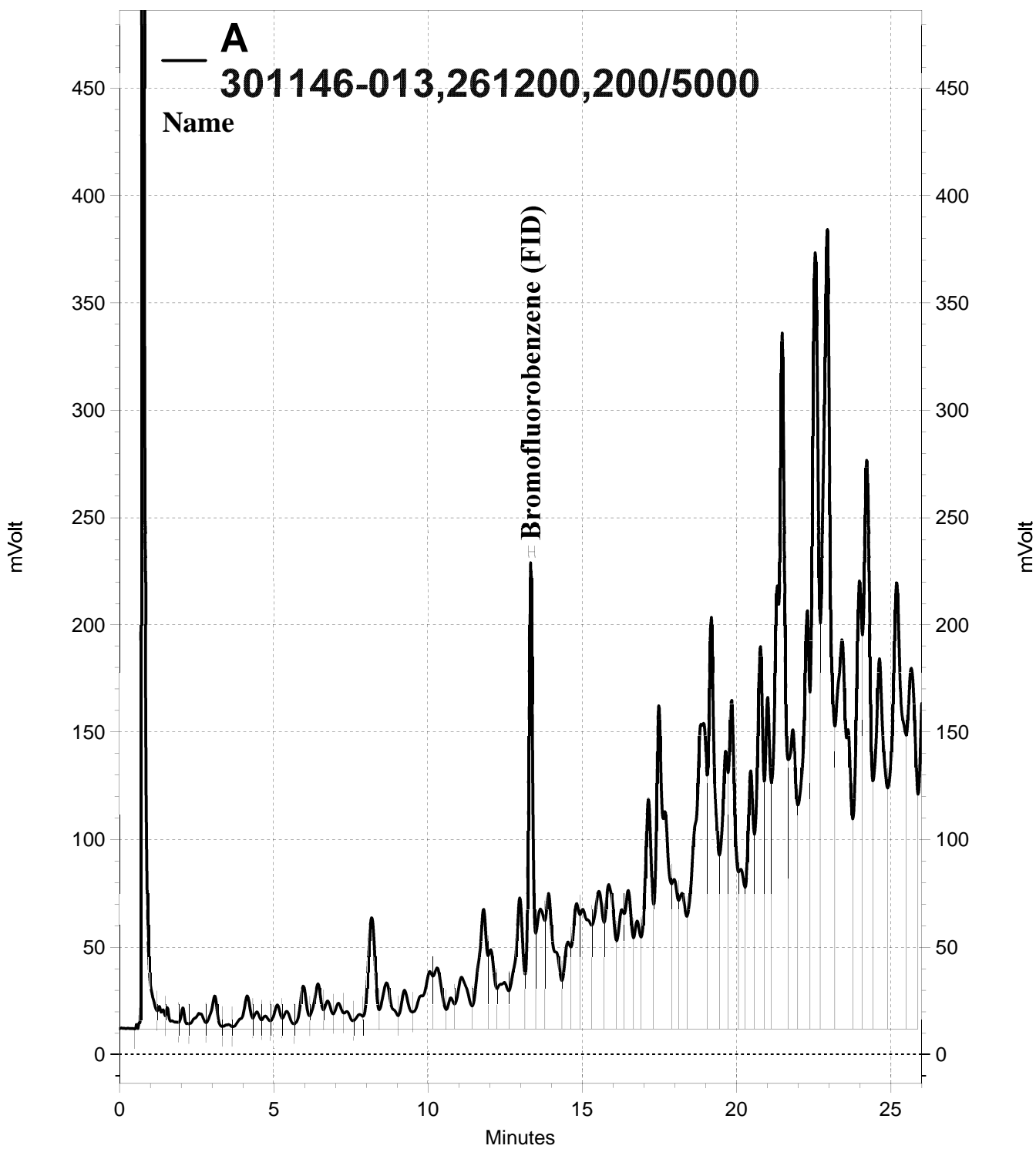
Name

Bromofluorobenzene (FID)

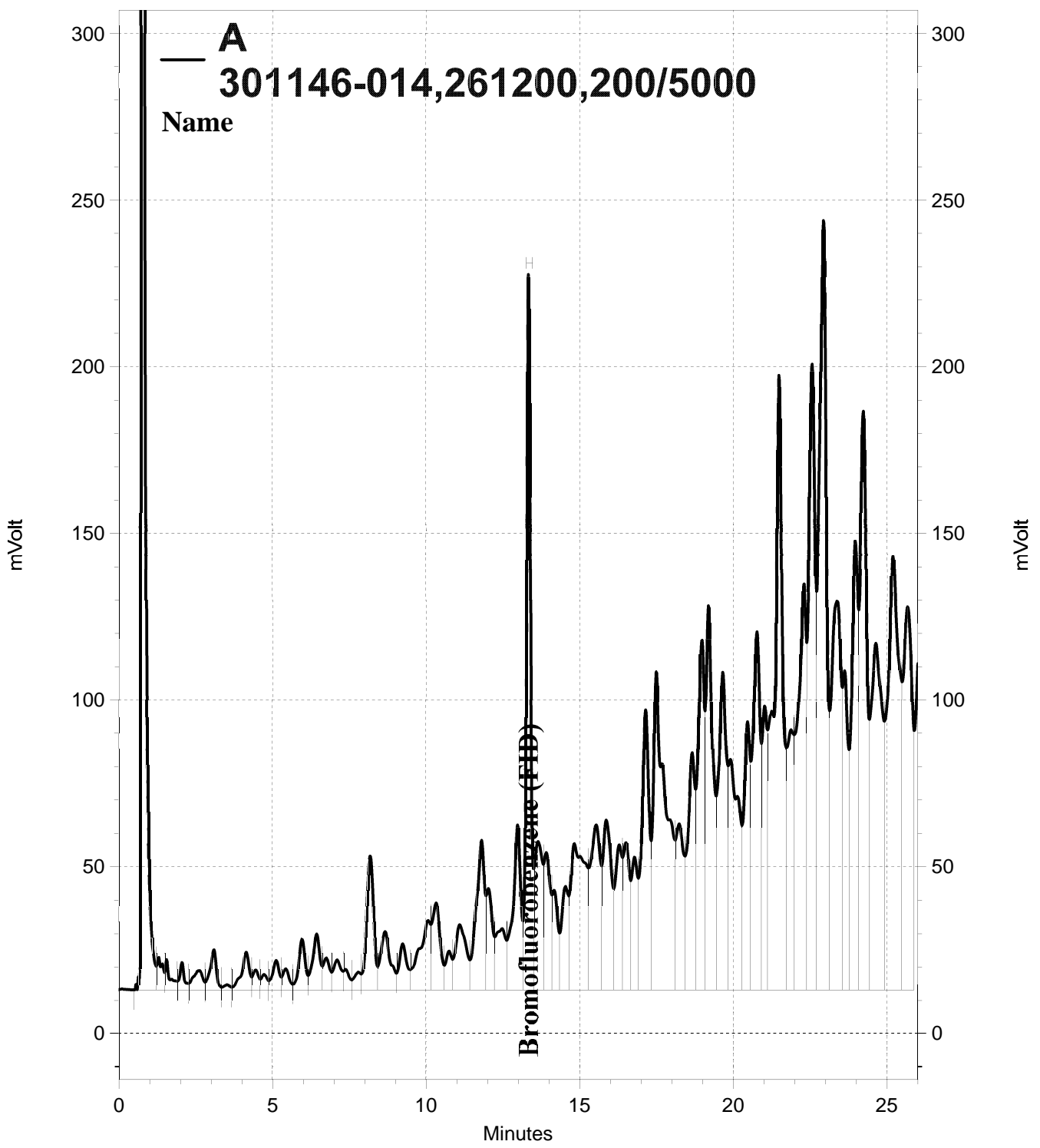
\\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\186-021, A



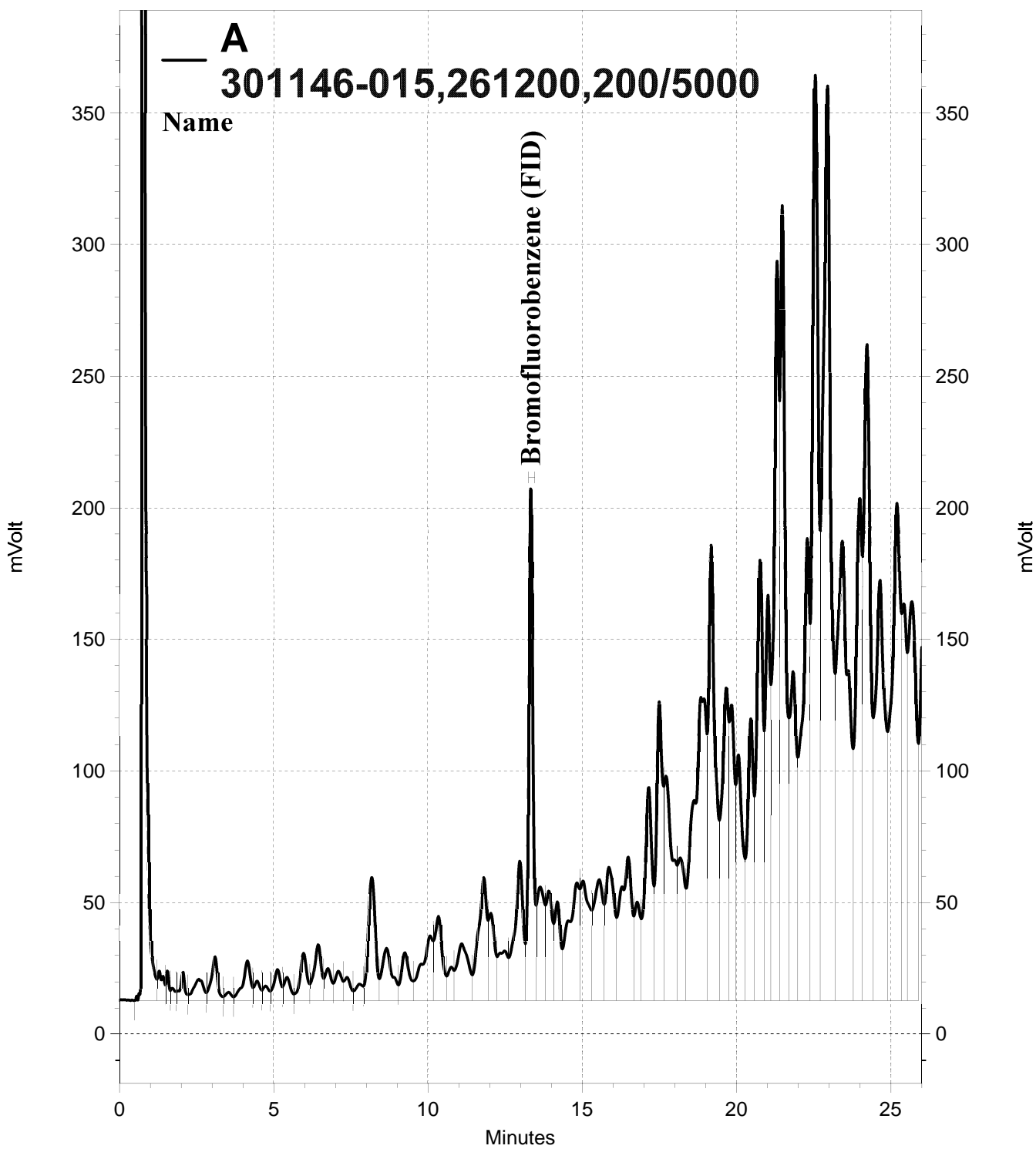
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-019, A



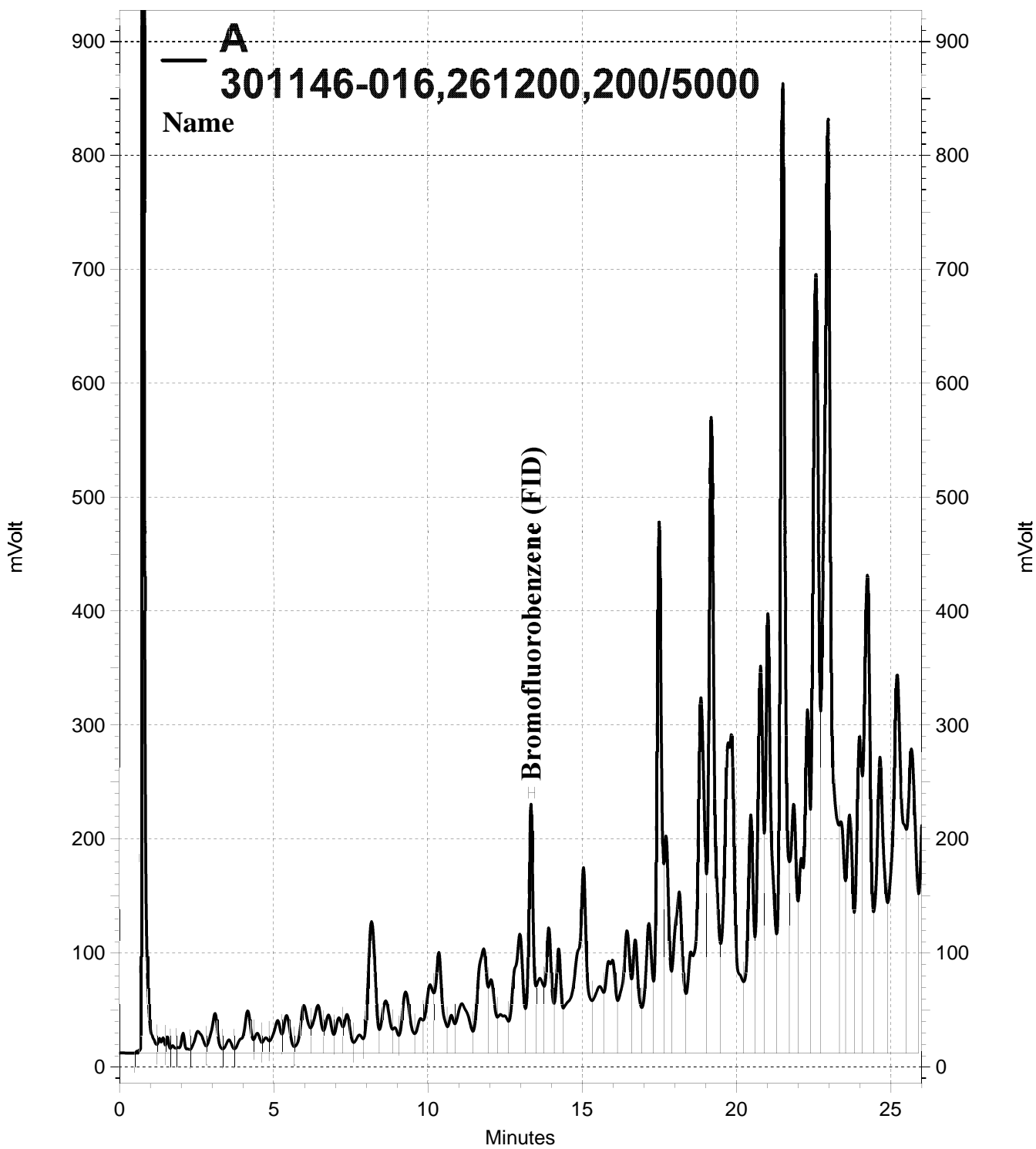
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-020, A



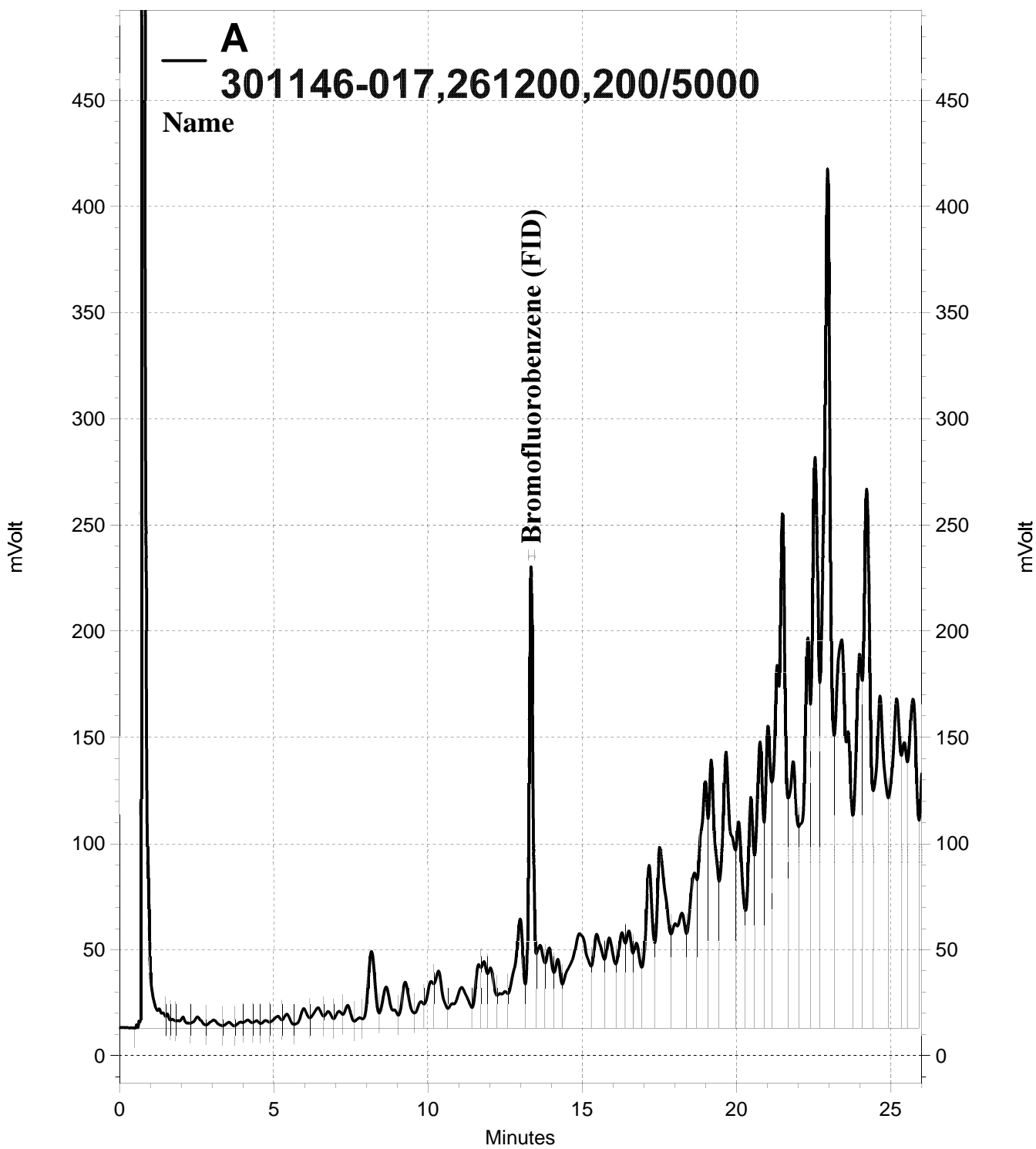
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-021, A



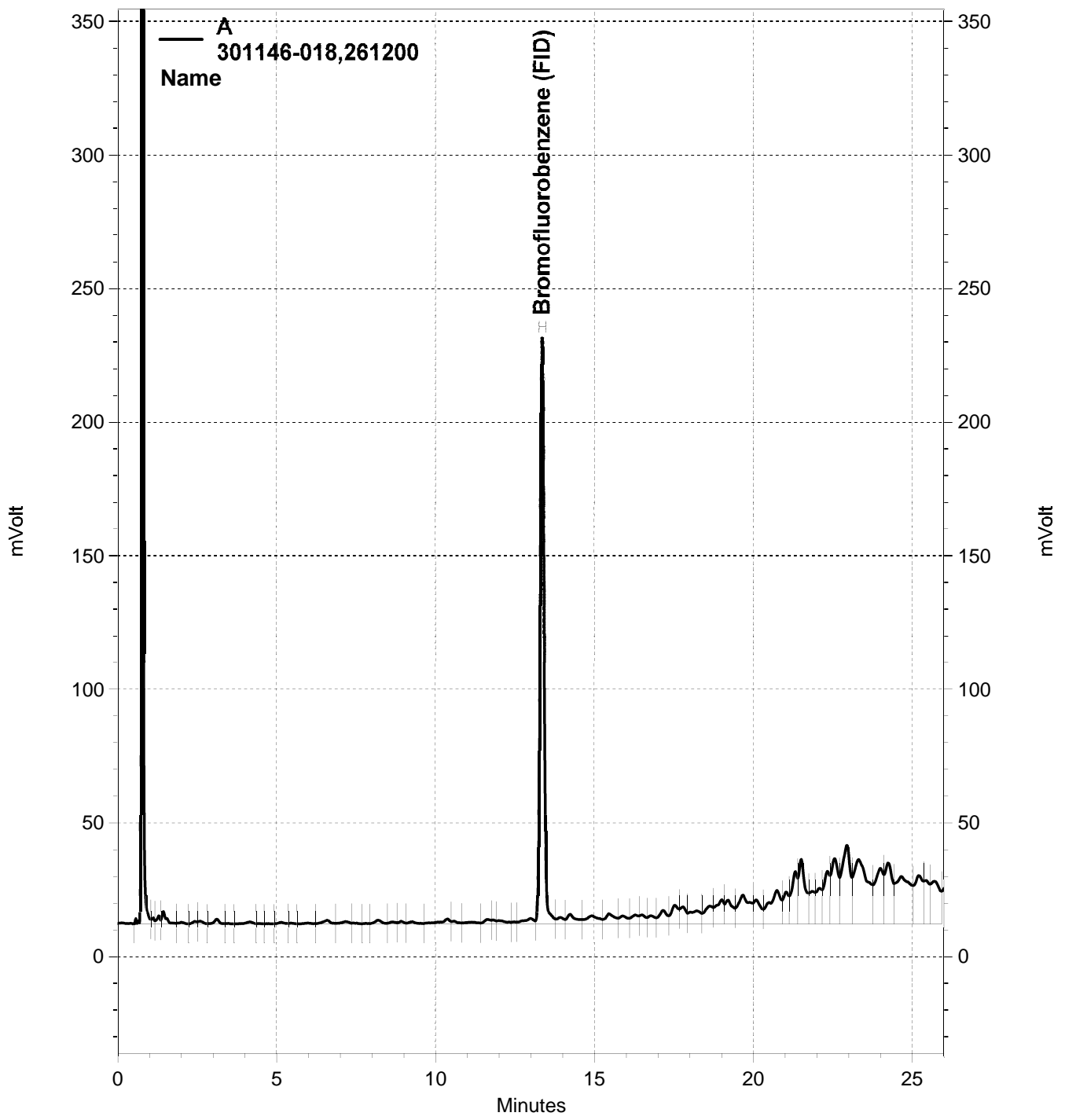
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-022, A



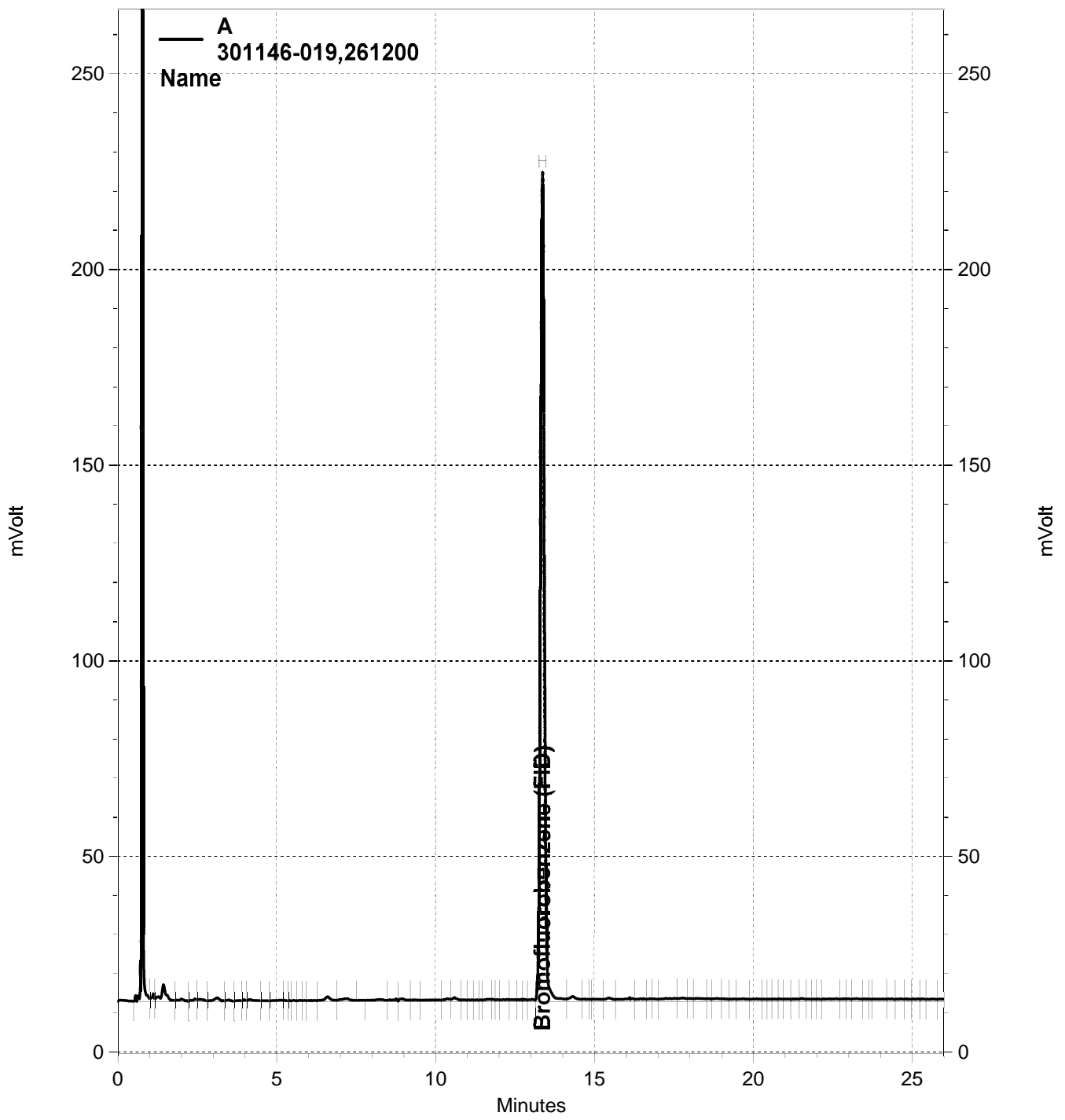
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-023, A



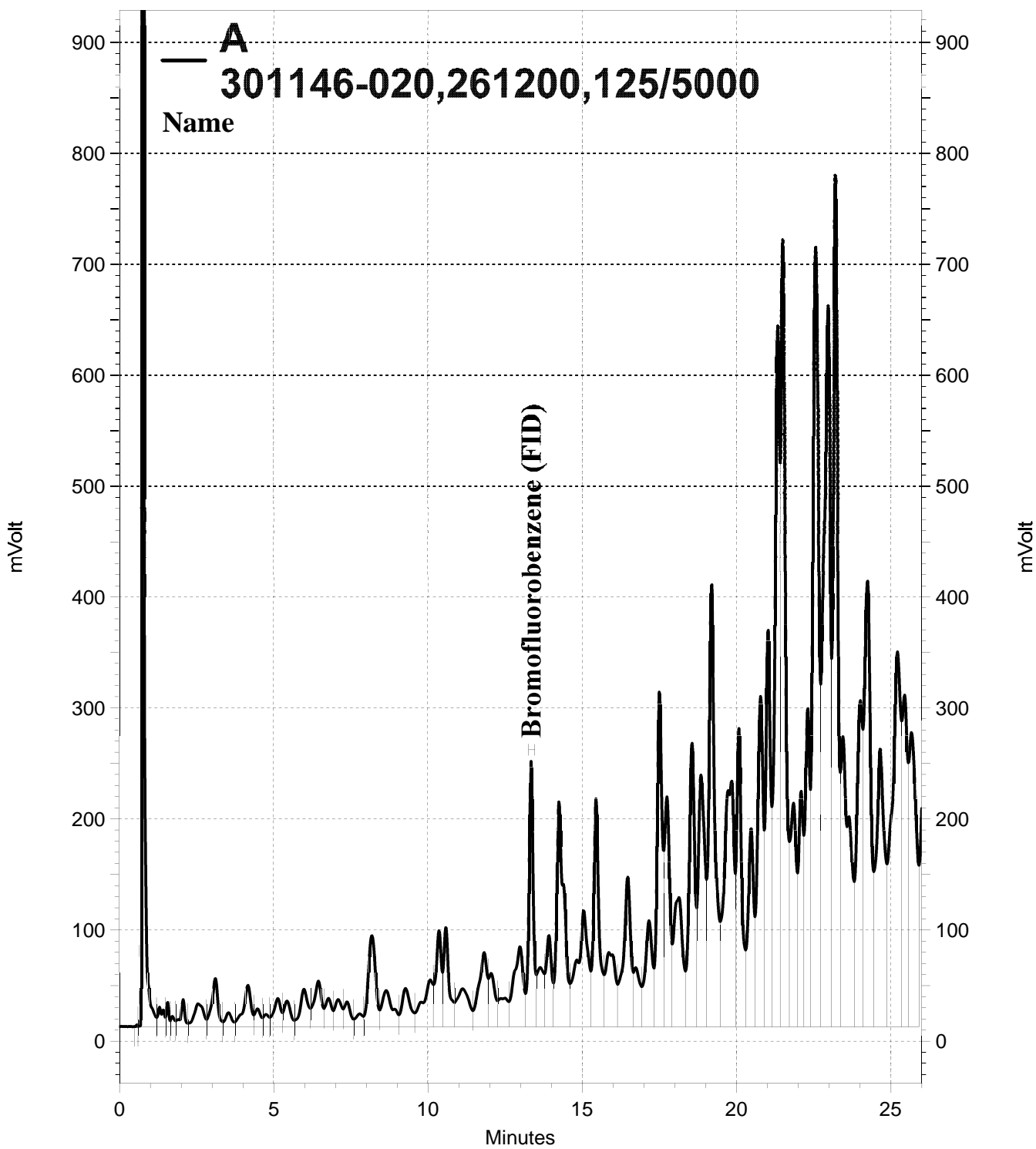
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-024, A



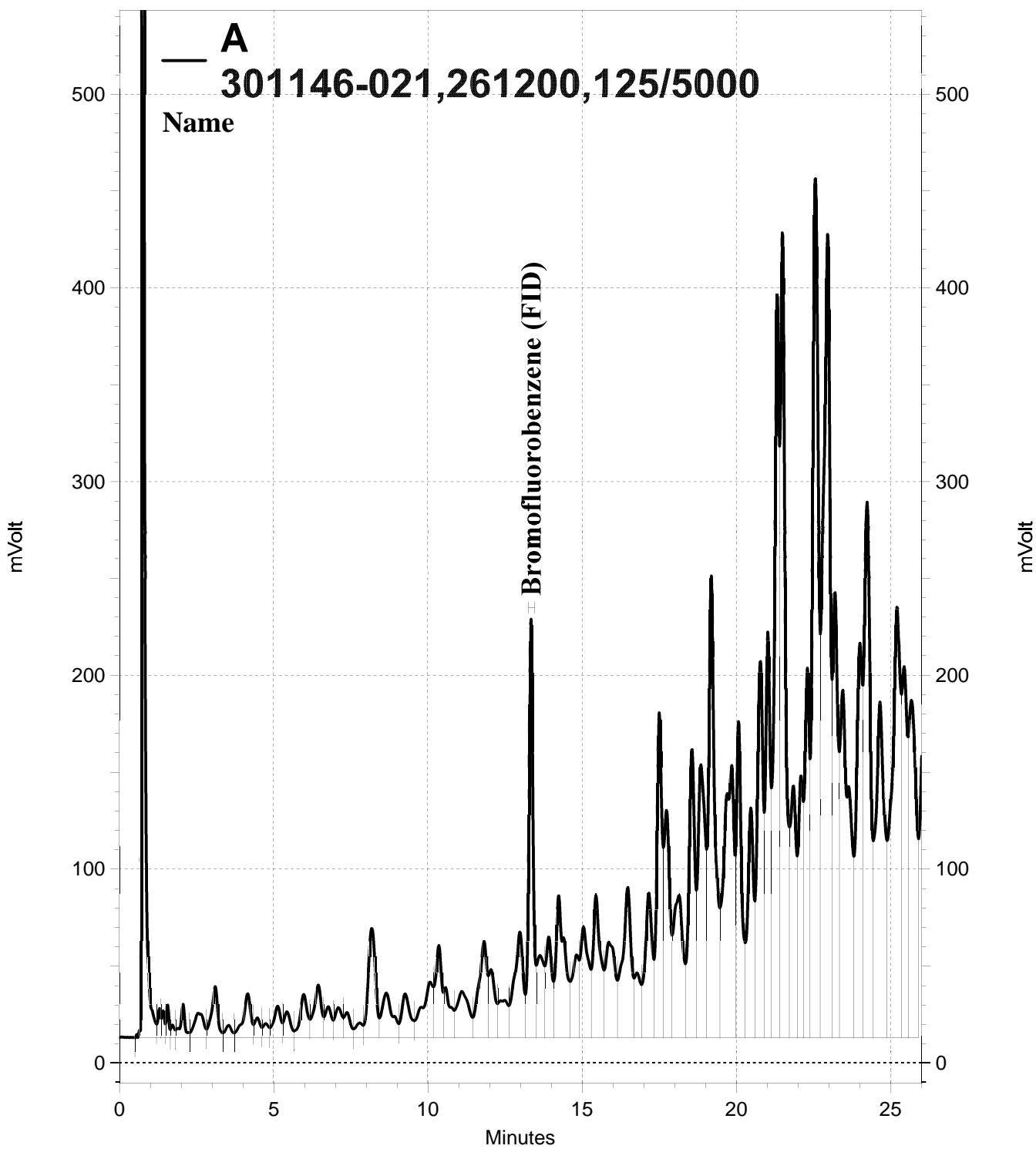
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-006, A



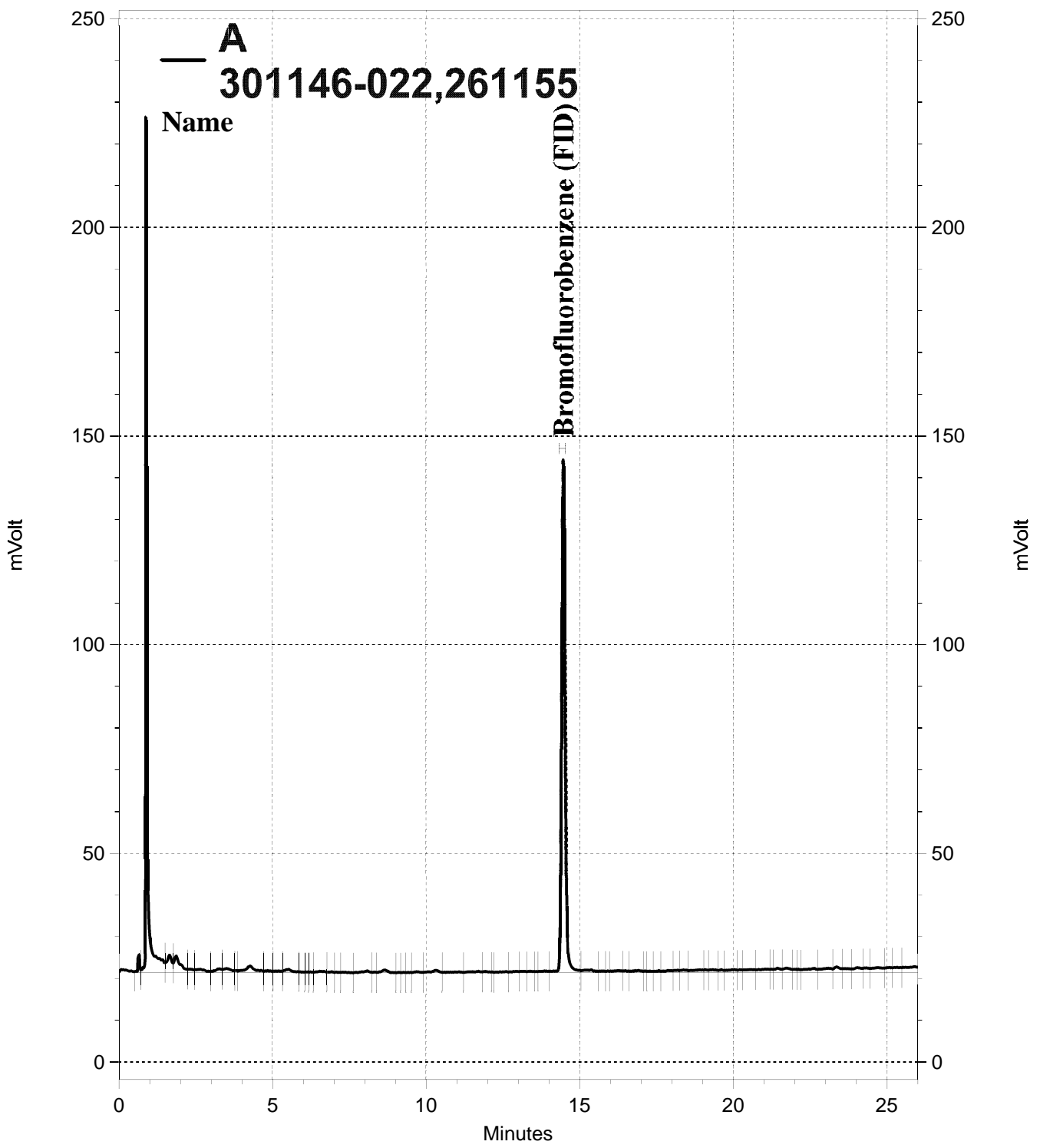
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-007, A



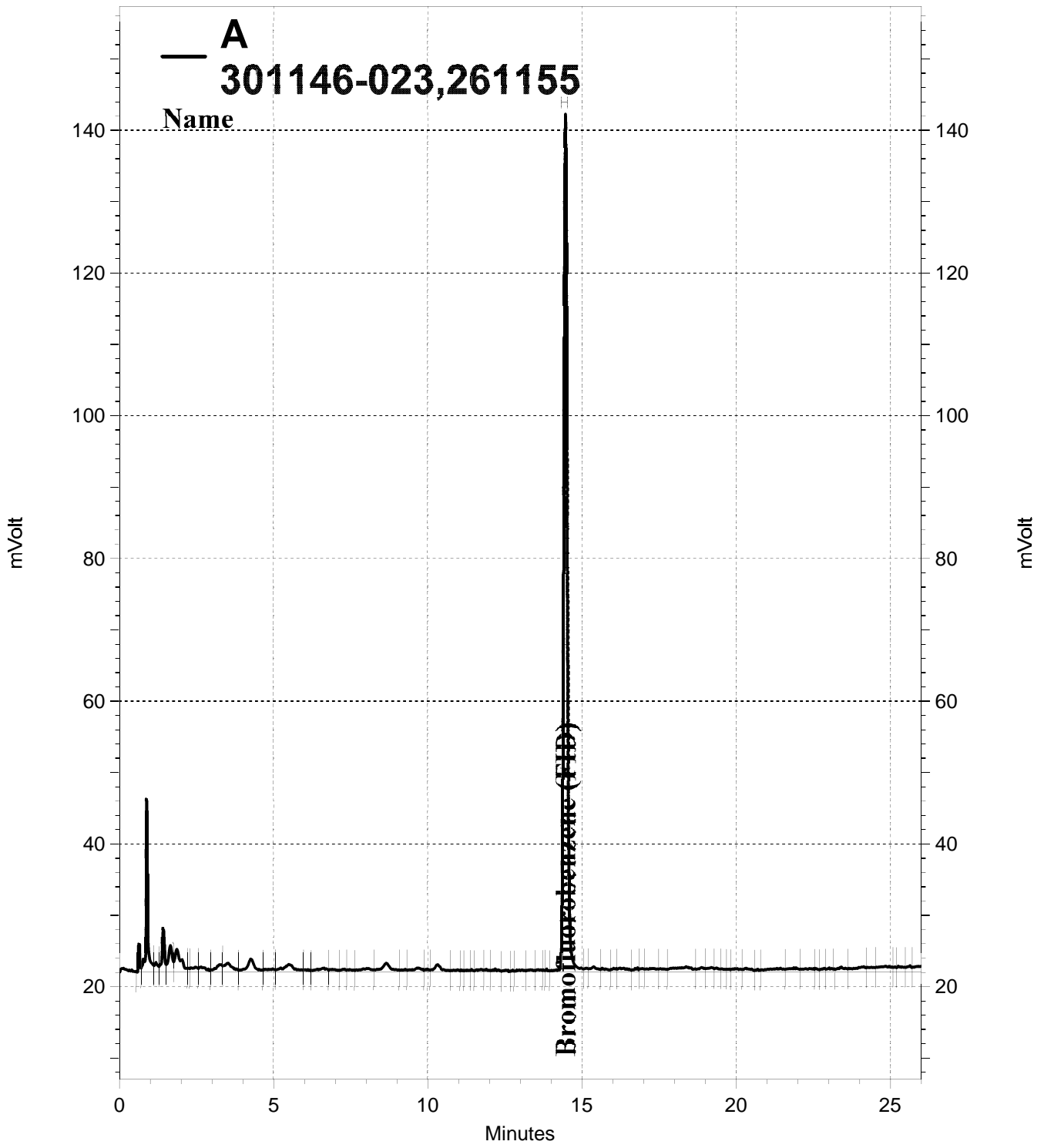
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-017, A



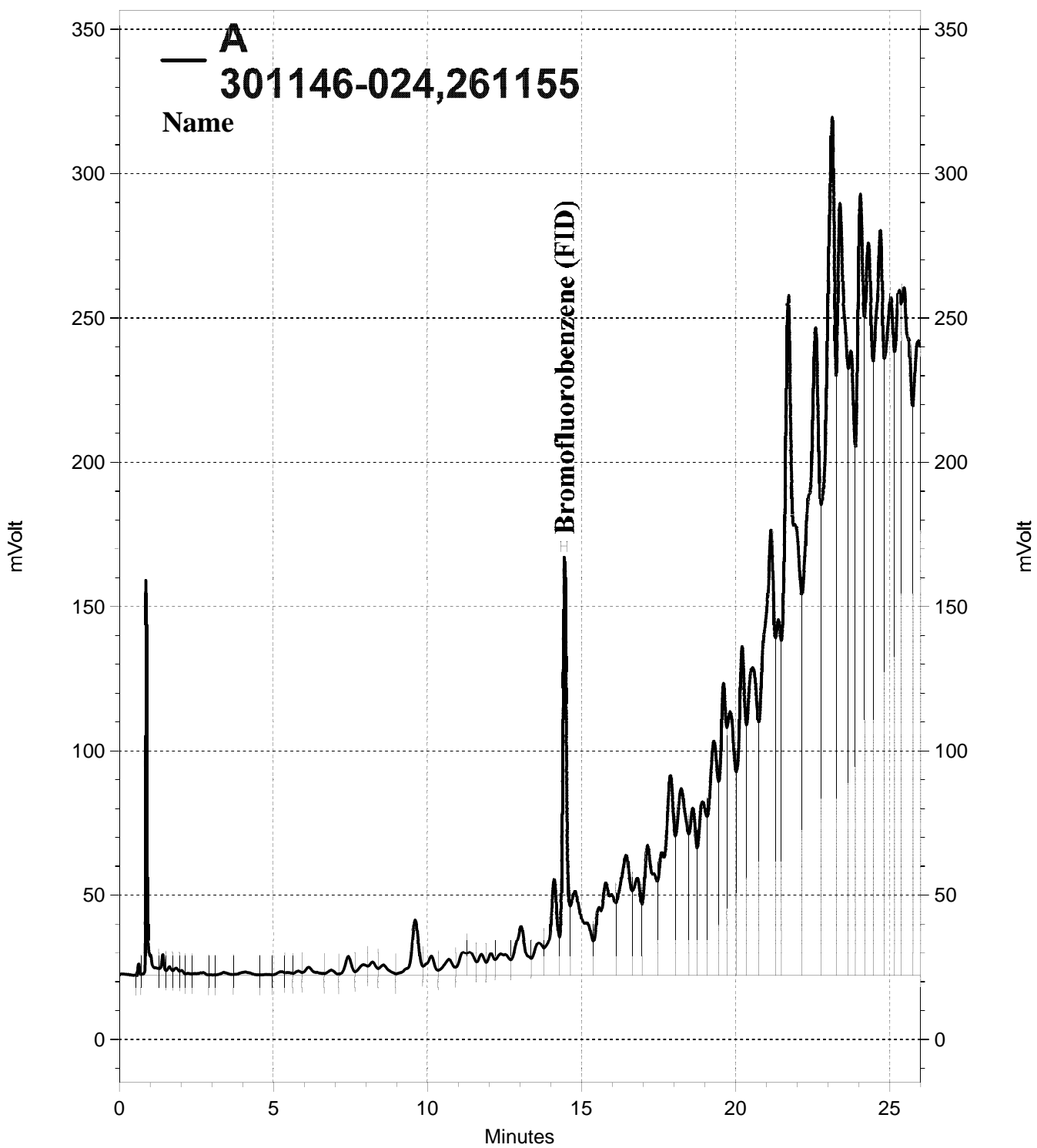
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-018, A



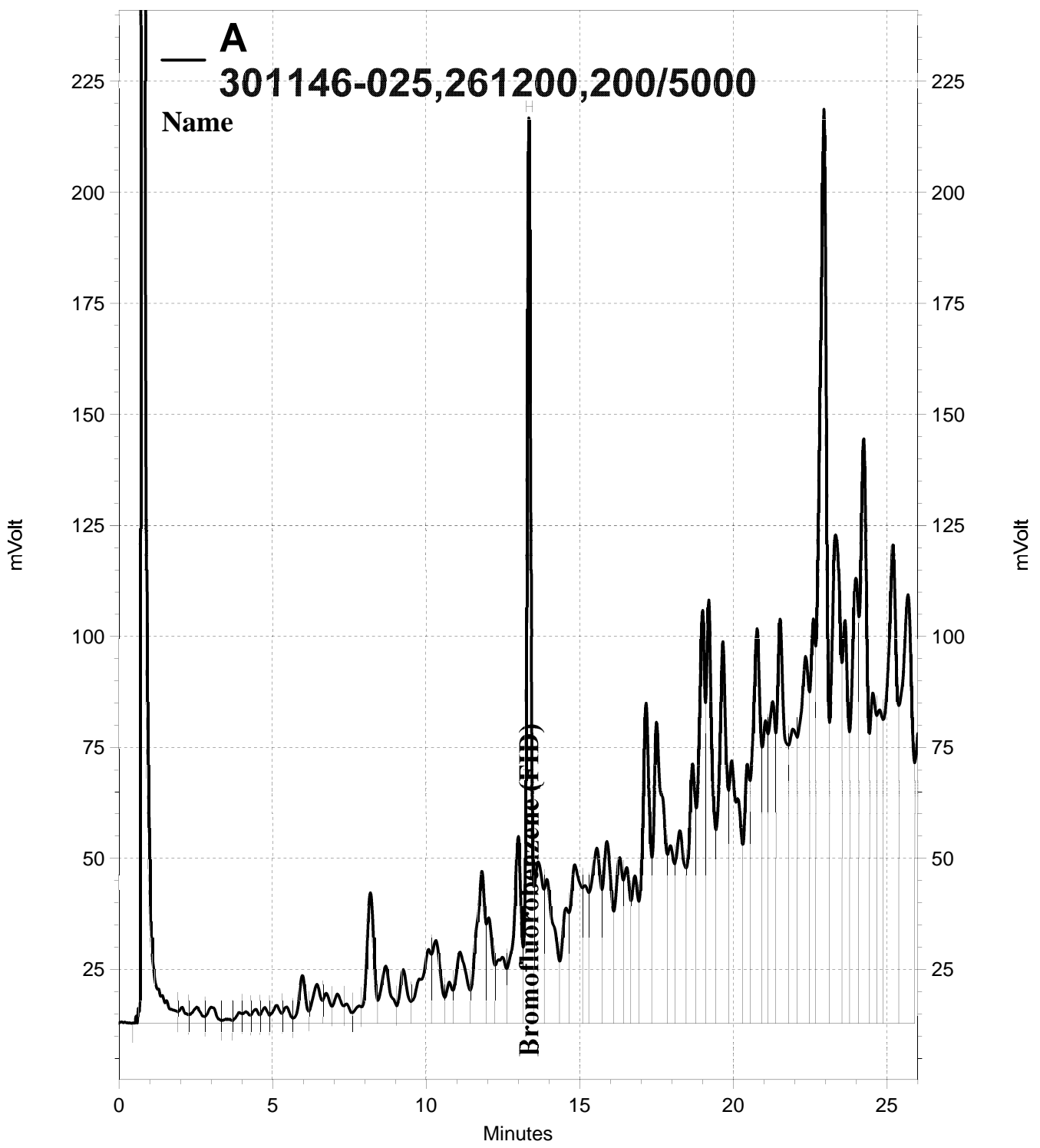
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\186-032, A



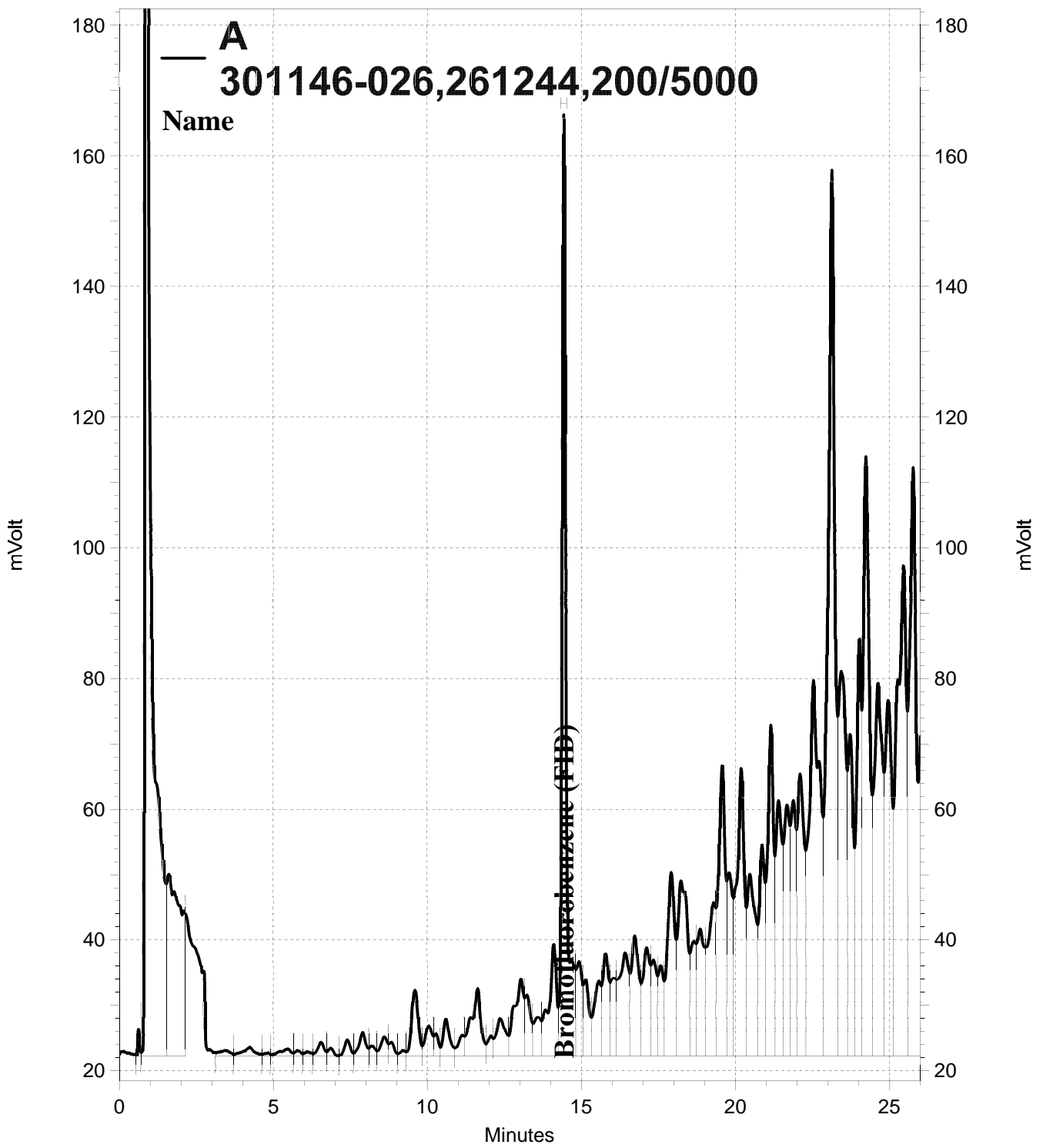
\\Lims\gdrive\ezchrom\Projects\GC19\Data\186-019, A



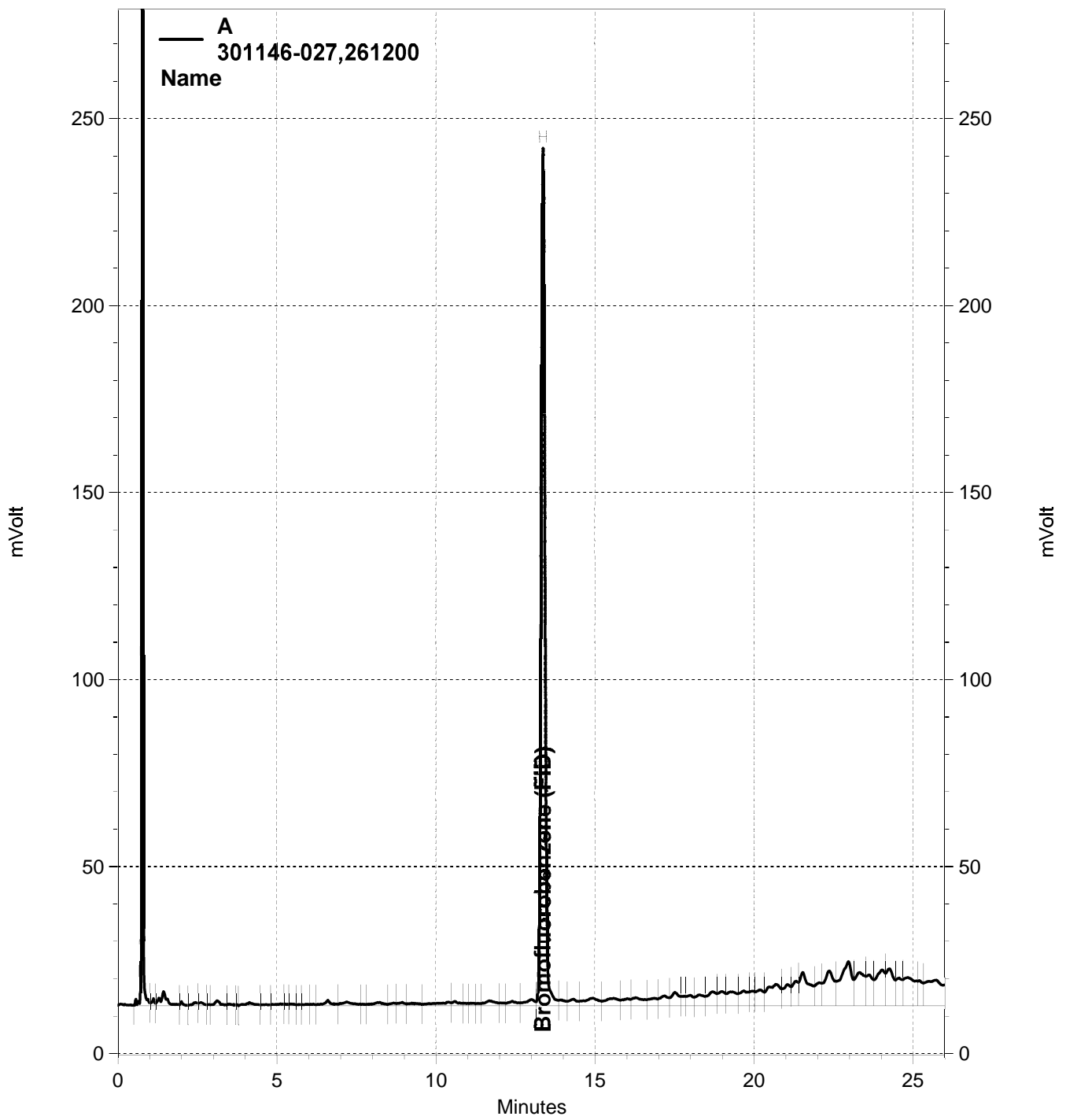
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\186-020, A



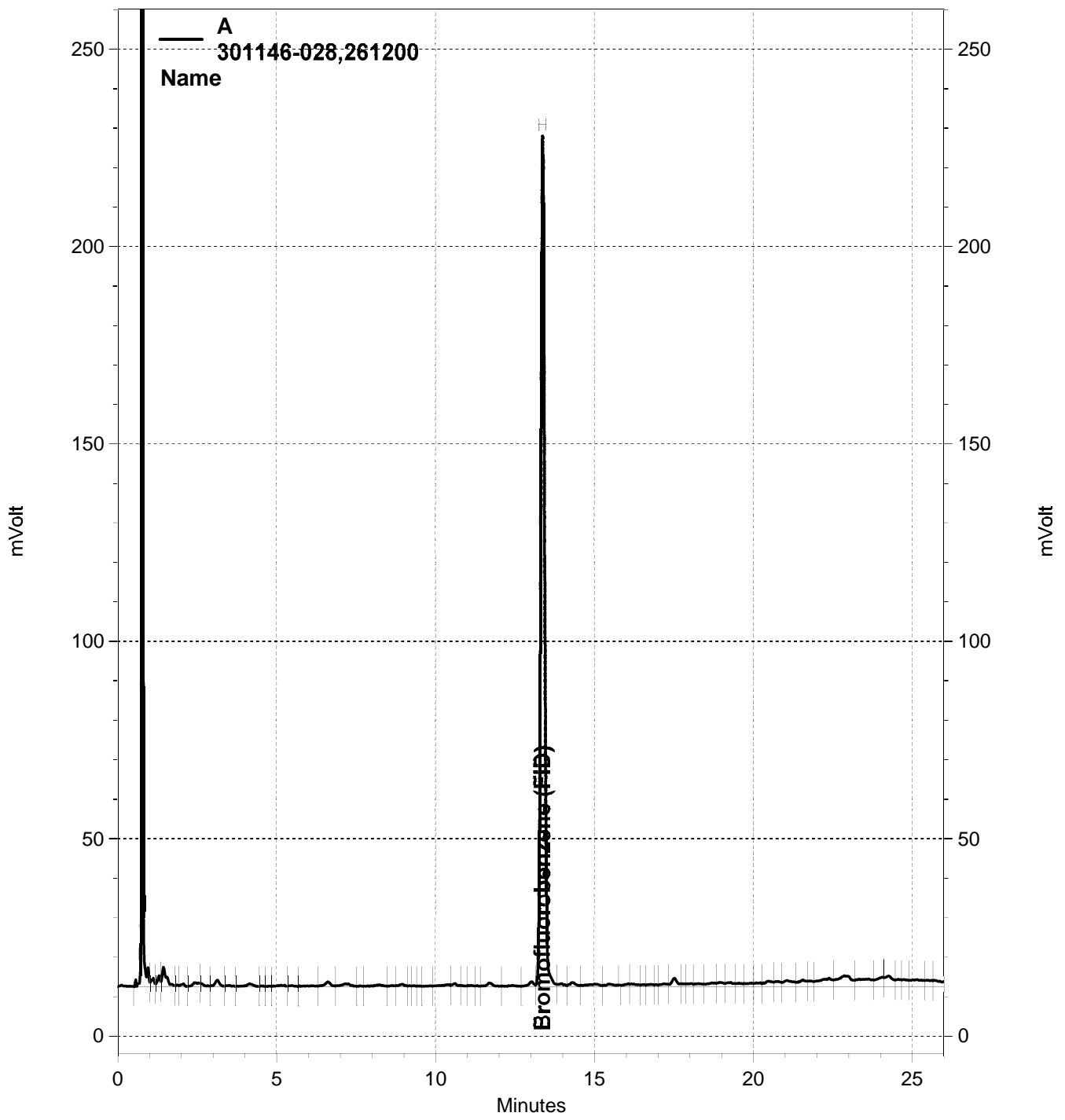
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-025, A



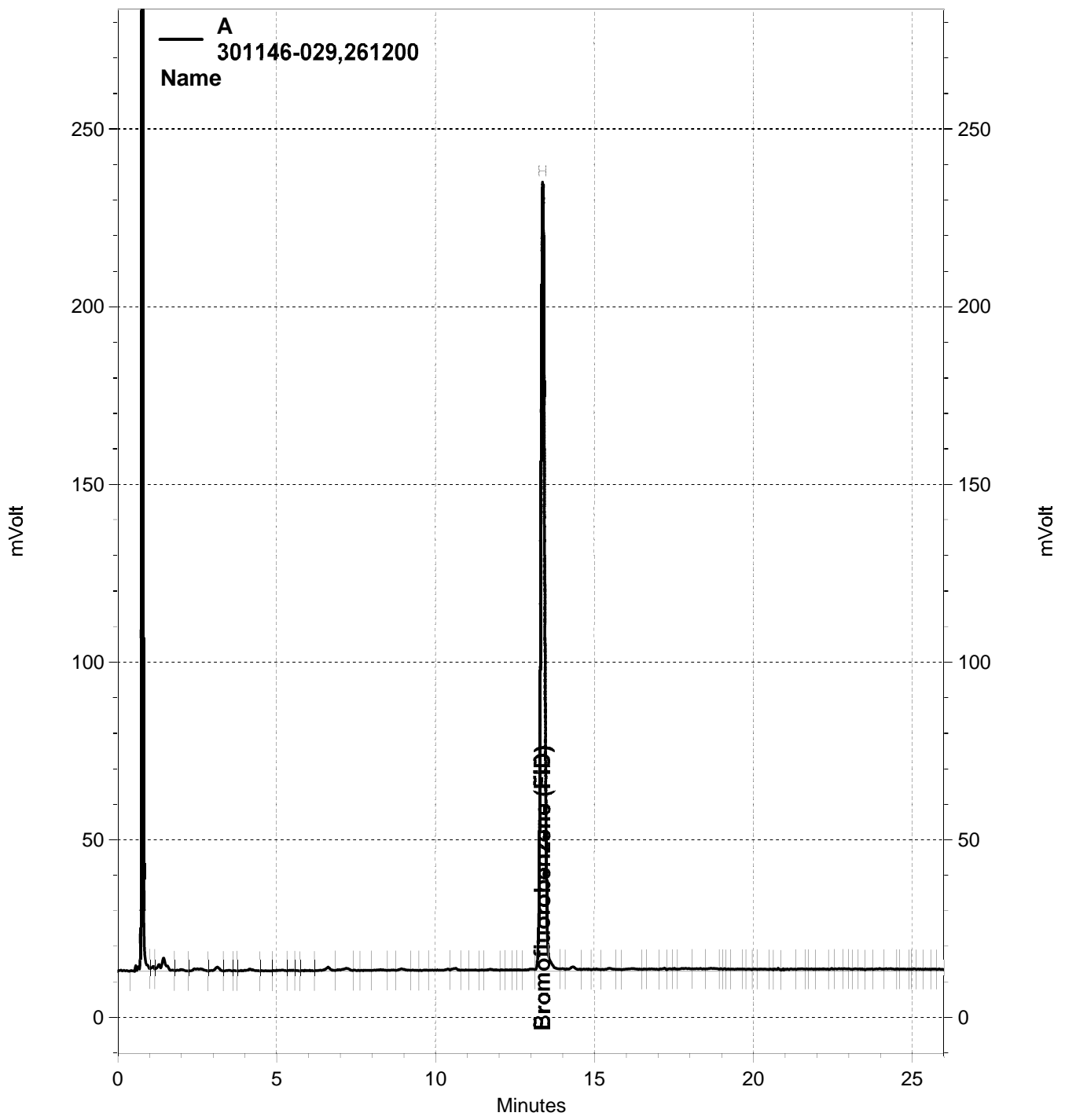
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\190-026, A



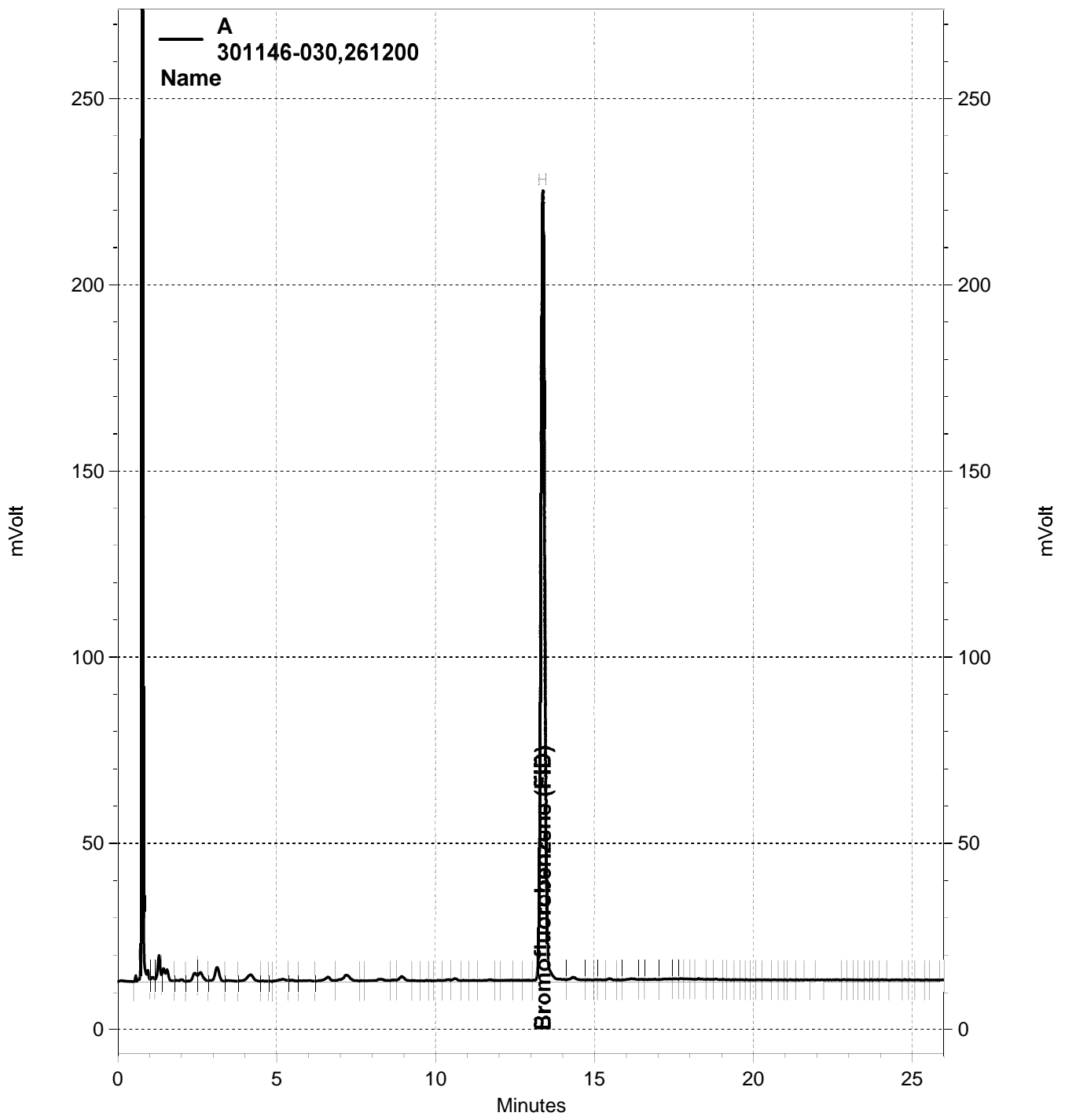
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-008, A



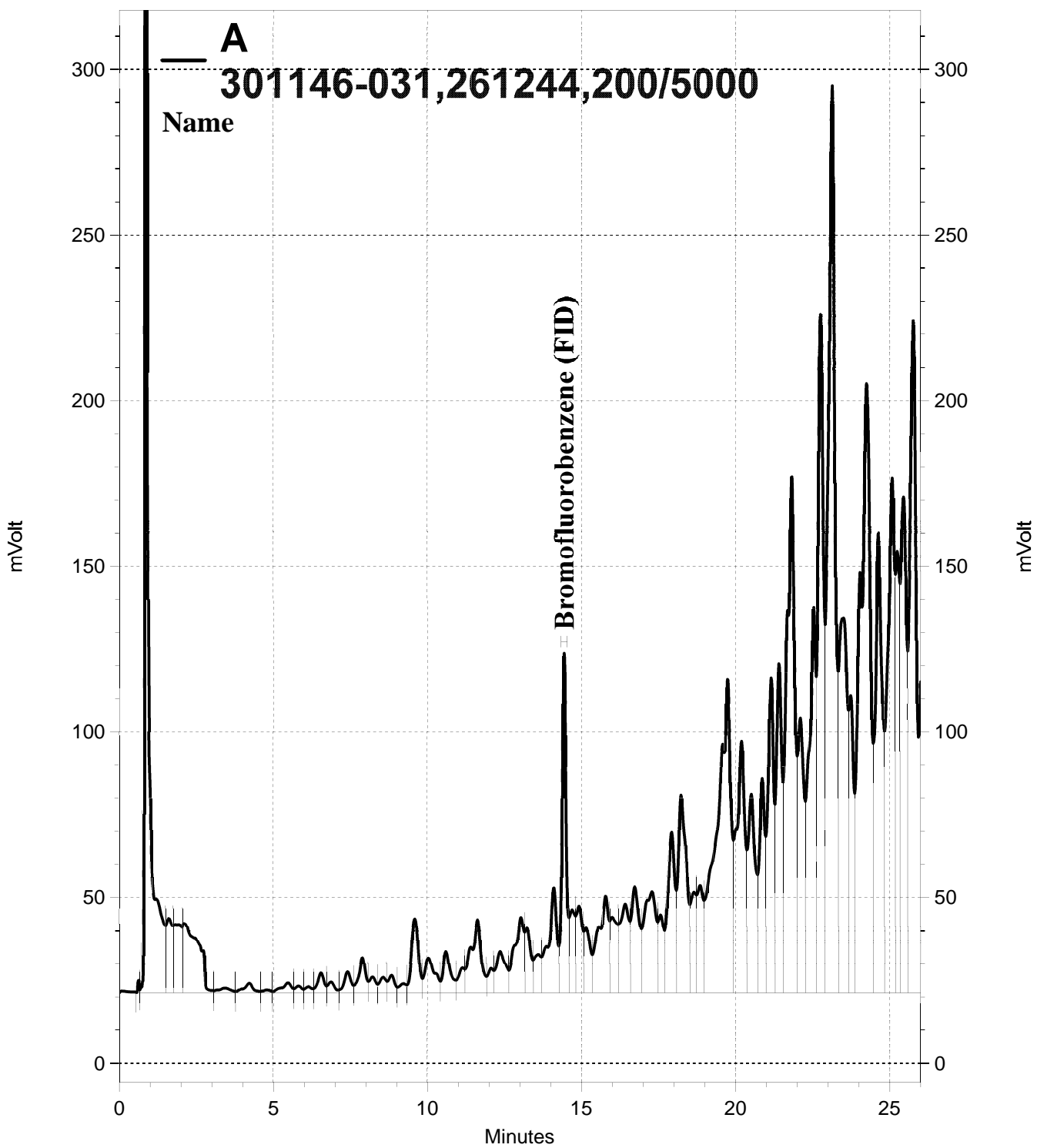
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-009, A



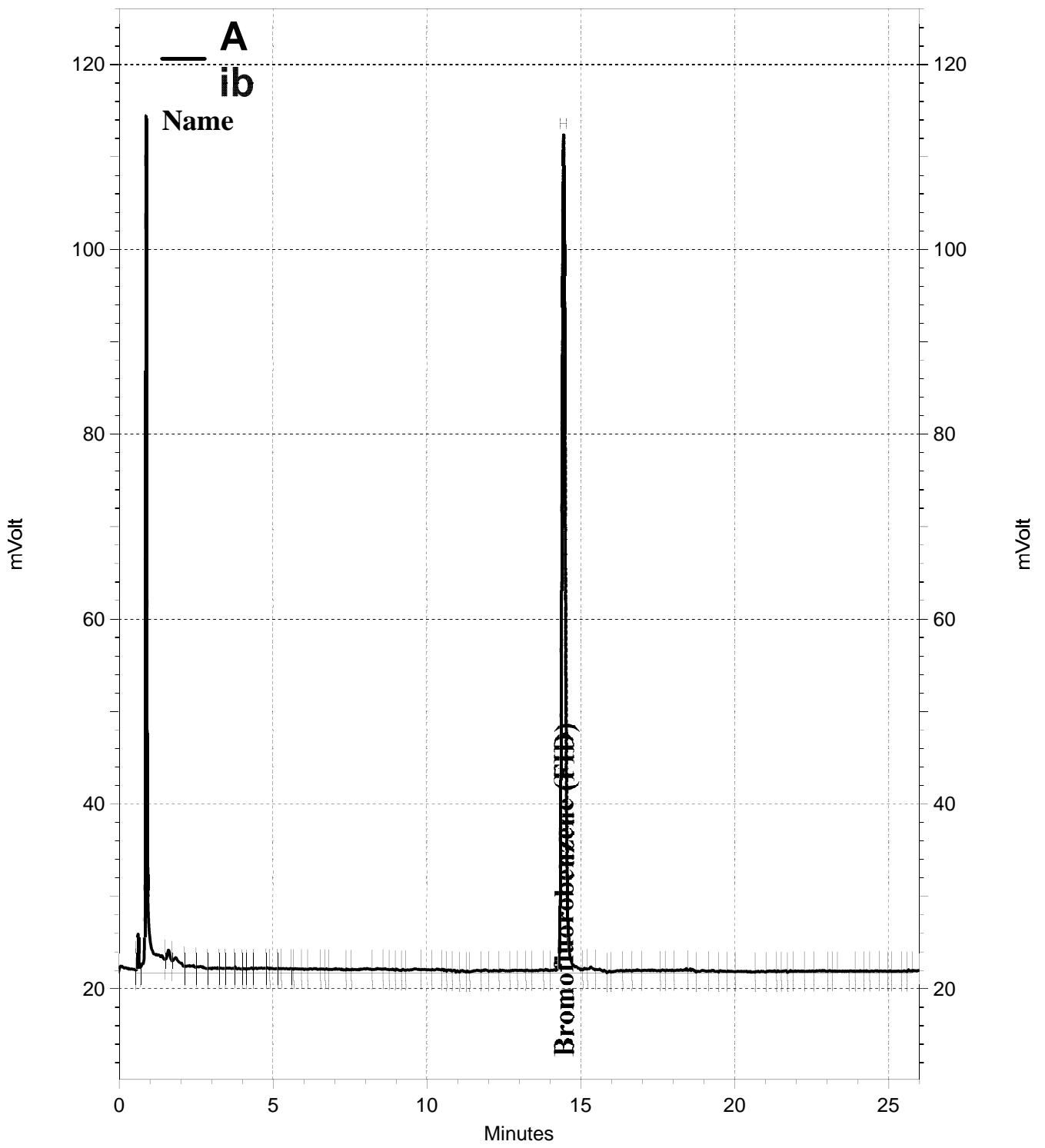
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-010, A



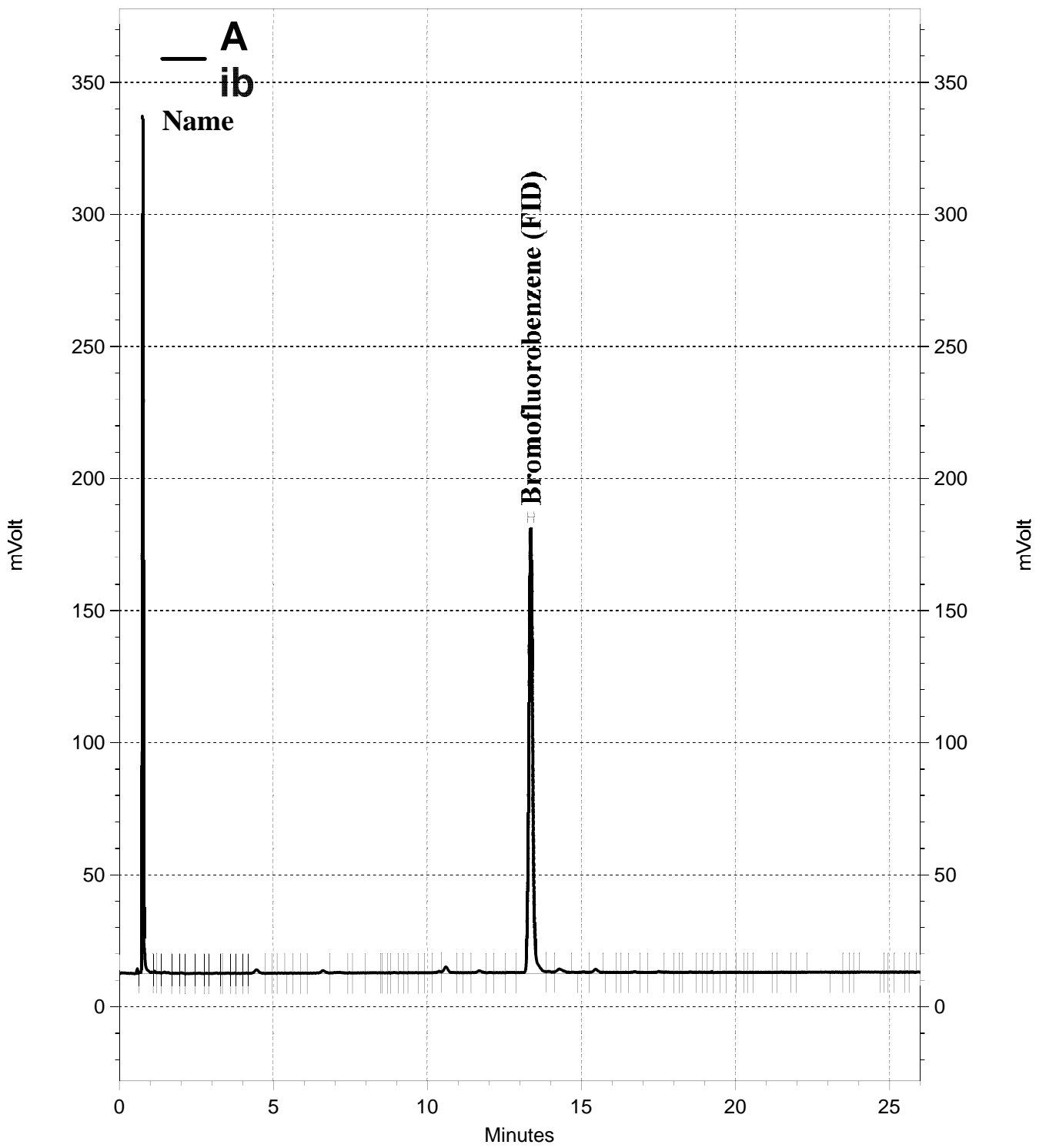
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-011, A



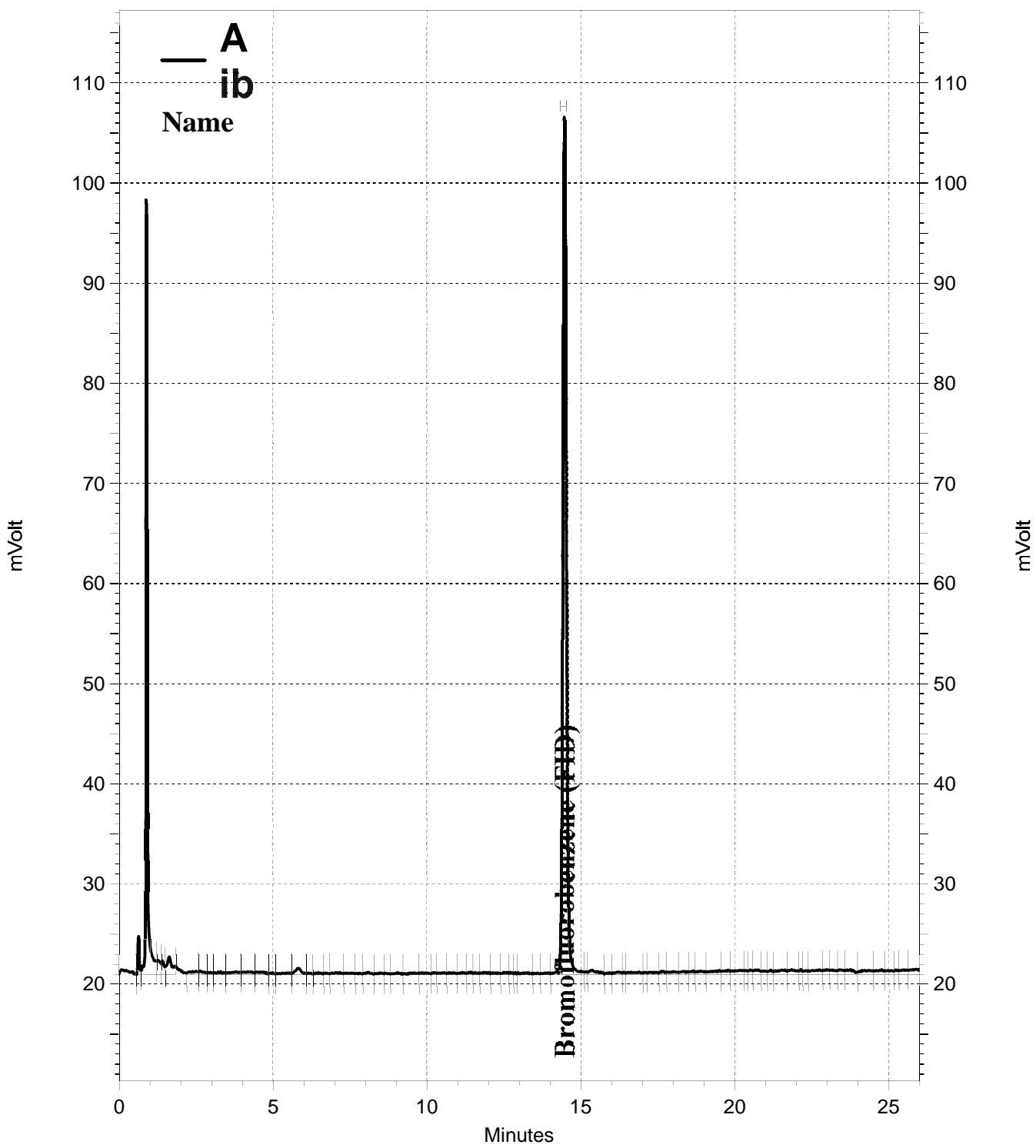
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\190-027, A



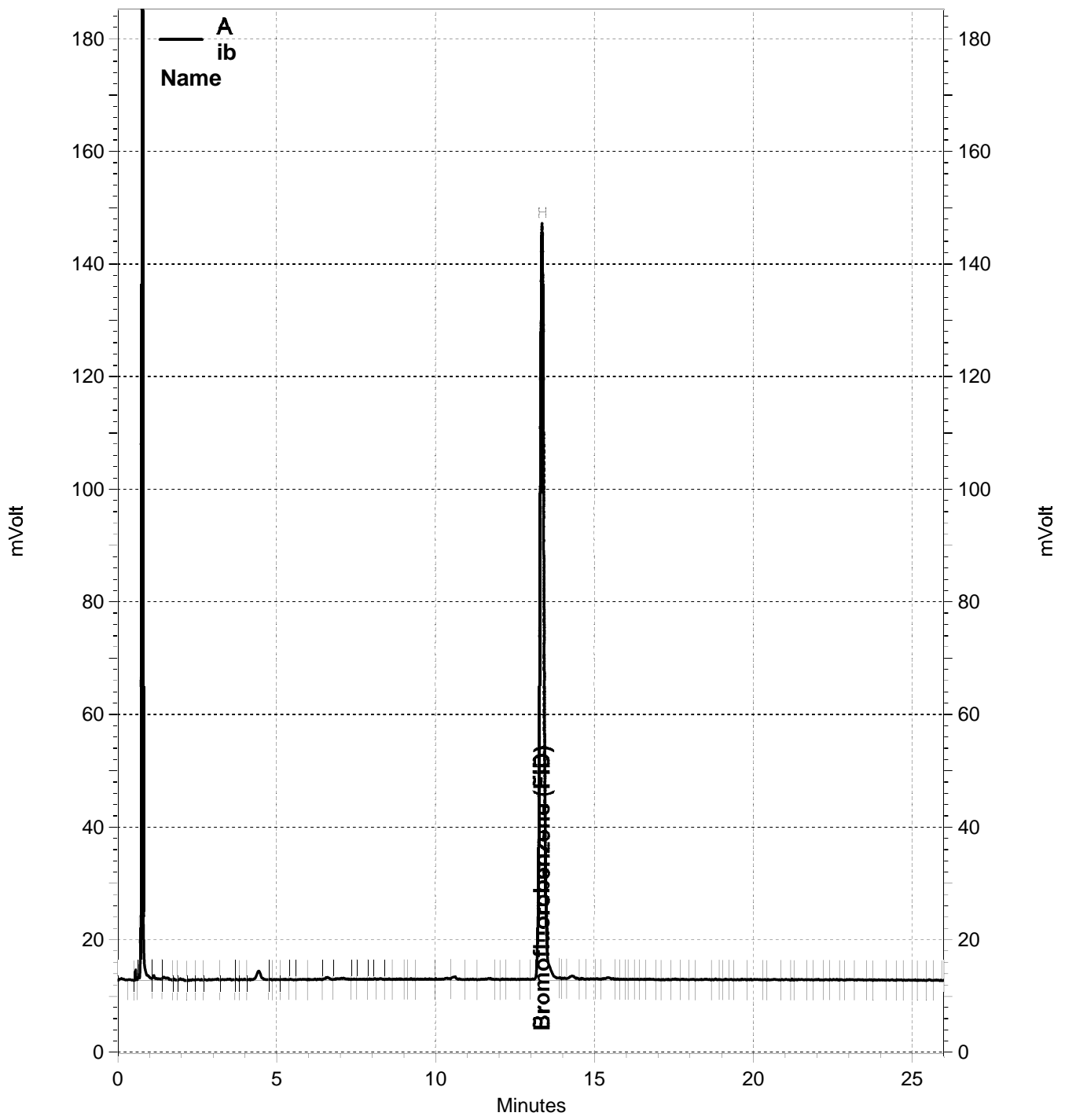
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\184-007, A



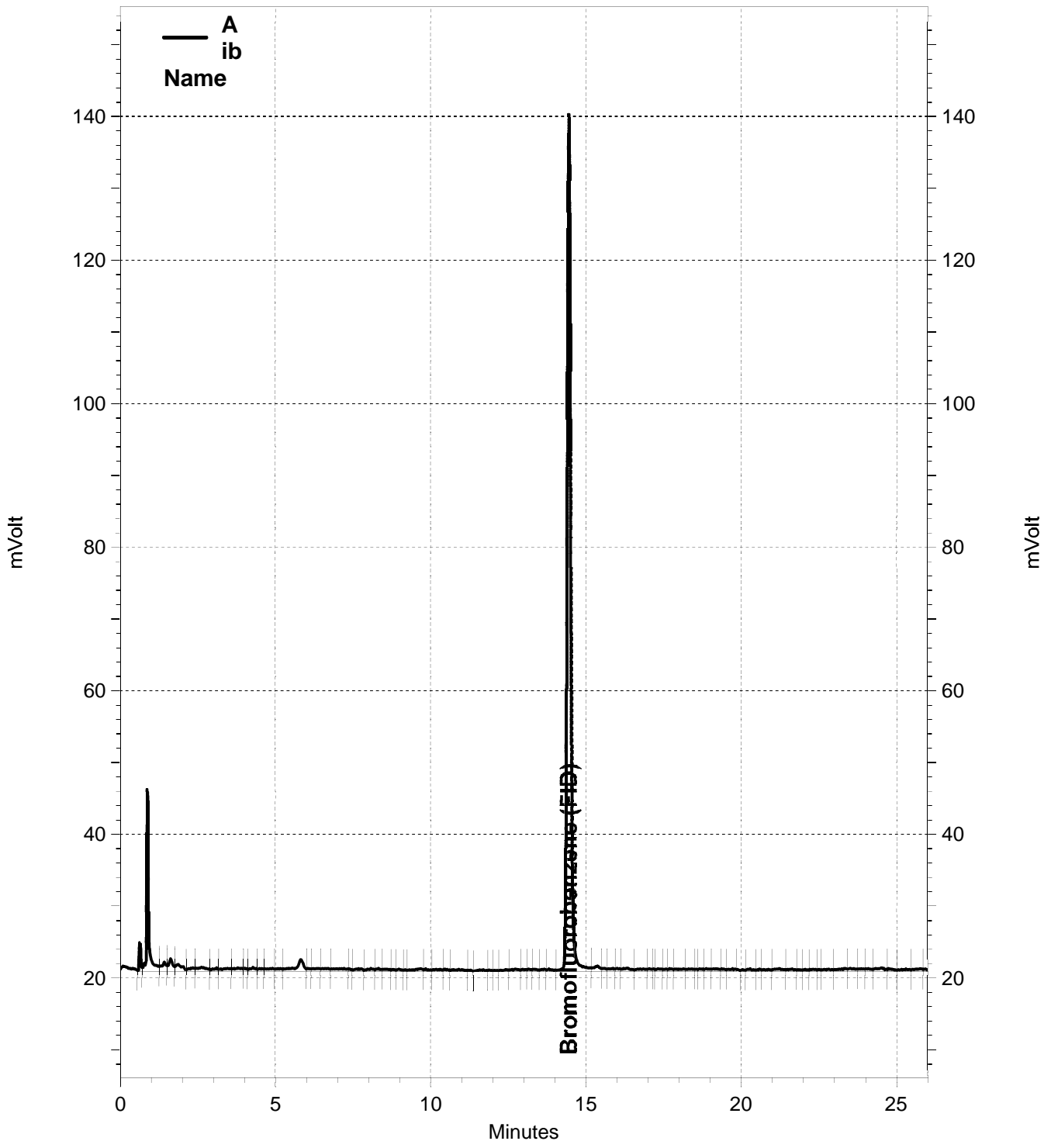
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\186-006, A



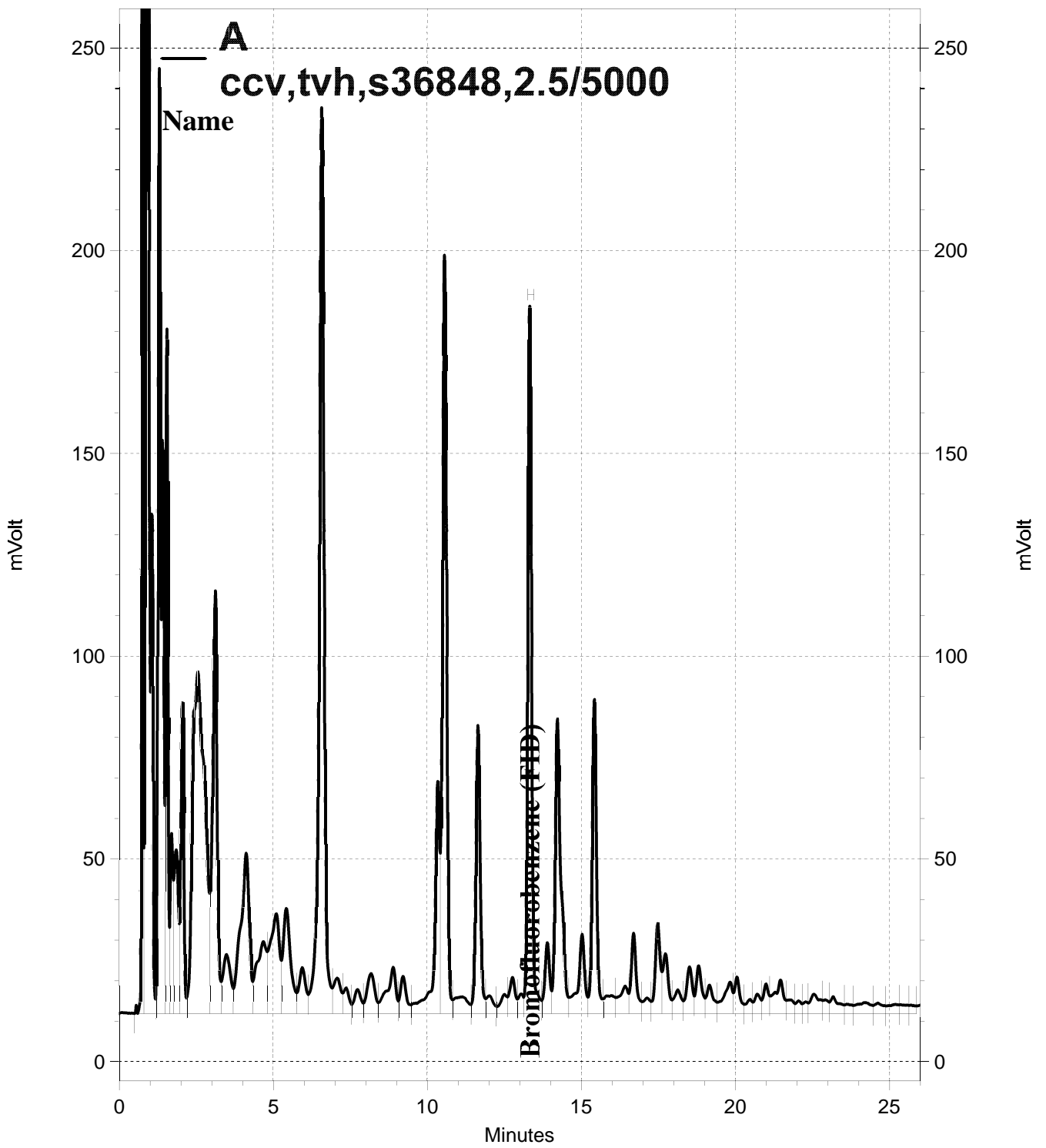
— \\Lims\gdrive\ezchrom\Projects\GC19\Data\186-006, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\187-005, A



— \\Lims\gdrive\ezchrom\Projects\GC19\Data\190-006, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2018\186-002, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 301146 GCVOA Soil: EPA 8015B

Inst : GC05
 Calnum : 318176372002
 Units : ng

Name : TVH_122
 Date : 02-MAY-2018 12:09
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_002	318176372002	TVH_14	02-MAY-2018 12:09	S36893 (1000X), S36233 (5000X)
L2	122_003	318176372003	TVH_15	02-MAY-2018 12:47	S36892 (1000X), S36233 (5000X)
L3	122_004	318176372004	TVH_16	02-MAY-2018 13:25	S36891 (1000X), S36233 (5000X)
L4	122_005	318176372005	TVH_17	02-MAY-2018 14:02	S36890 (2000X), S36233 (5000X)
L5	122_006	318176372006	TVH_18	02-MAY-2018 14:40	S36890 (1000X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2961.4	2506.0	2455.4	2423.4	2633.8	AVRG		3.85E-4		2596.0	8	0.995	20	
Bromofluorobenzene (FID)	A	1639.9	1598.1	1644.8	2044.9	2307.4	AVRG		5.41E-4		1847.0	17	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	14	2500.0	-3	10000	-5	25000	-7	50000	1
Bromofluorobenzene (FID)	A	900.00	-11	900.00	-13	900.00	-11	900.00	11	900.00	25

CJN 05/02/18 : Corrected baseline noise or negative peak in TVH_14 (122_002).

Analyst: CJN

Date: 05/02/18

Reviewer: EAH

Date: 05/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC05
Calnum : 318176372002

Name : TVH_122
Cal Date : 02-MAY-2018

ICV 318176372008 (122_008 02-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8824	ng	-12	15	

Analyst: CJN

Date: 05/02/18

Reviewer: EAH

Date: 05/03/18

ENTHALPY INITIAL CALIBRATION FOR 301146 GCVOA Soil: EPA 8015B

Inst : GC19
 Calnum : 348209722001
 Units : ng

Name : TVH_145
 Date : 25-MAY-2018 15:59
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	145_002	348209722002	TVH_14	25-MAY-2018 15:59	S36893 (1000X), S36233 (5000X)
L2	145_003	348209722003	TVH_15	25-MAY-2018 16:37	S36892 (1000X), S36233 (5000X)
L3	145_004	348209722004	TVH_16	25-MAY-2018 17:15	S36891 (1000X), S36233 (5000X)
L4	145_005	348209722005	TVH_17	25-MAY-2018 17:52	S36890 (2000X), S36233 (5000X)
L5	145_006	348209722006	TVH_18	25-MAY-2018 18:30	S36890 (1250X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	1521.2	1568.1	1224.1	1167.1	1475.3	AVRG		7.19E-4		1391.2	13	0.995	20	
Bromofluorobenzene (FID)	A	1058.0	1037.5	719.12	1094.5	1054.0	AVRG		0.00101		992.60	16	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	9	2500.0	13	10000	-12	25000	-16	40000	6
Bromofluorobenzene (FID)	A	900.00	7	900.00	5	900.00	-28	900.00	10	900.00	6

CJN 05/30/18 : Corrected automatically drawn baseline in TVH_14 (145_002).

Analyst: CJN

Date: 05/30/18

Reviewer: EAH

Date: 05/30/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19
Calnum : 348209722001

Name : TVH_145
Cal Date : 25-MAY-2018

ICV 348209722009 (145_009 25-MAY-2018) stds: S36894 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	9755	ng	-2	15	

Analyst: CJN

Date: 05/30/18

Reviewer: EAH

Date: 05/30/18

ENTHALPY SPIKE USER REPORT FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC938438 IDF : 1.0
 Seqnum : 318268400002.1 File : 186_002 Time : 05-JUL-2018 09:57
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2596.0	2992.4	5000	5763	ng	15	15	u
Bromofluorobenzene (FID)	A	1847.0	1728.2	900.0	842.1	ng	-6	15	u

Analyst: CJN Date: 07/10/18 Reviewer: EAH Date: 07/10/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318268400017 File : 186_017 Time : 05-JUL-2018 19:50
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2795.0	10000	10770	ng	8	15	
Bromofluorobenzene (FID)	A	1847.0	1986.4	900.0	967.9	ng	8	15	

Analyst: CJN Date: 07/06/18 Reviewer: TKM Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318268400029 File : 186_029 Time : 06-JUL-2018 03:21
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2679.4	15000	15480	ng	3	15	
Bromofluorobenzene (FID)	A	1847.0	1896.6	900.0	924.1	ng	3	15	

Analyst: CJN Date: 07/06/18 Reviewer: TKM Date: 07/09/18

ENTHALPY SPIKE USER REPORT FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : QC938653 IDF : 1.0
 Seqnum : 318269858001.3 File : 187_001 Time : 06-JUL-2018 09:38
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2624.0	5000	5054	ng	1	15	u
Bromofluorobenzene (FID)	A	1847.0	1546.5	900.0	753.6	ng	-16	15	c- u

JM2 07/06/18 [Bromofluorobenzene (FID) A]: Passes control limits. [general version]

Analyst: CJN Date: 07/10/18 Reviewer: EAH Date: 07/10/18

--low bias c=CCV u=use

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318269858014 File : 187_014 Time : 06-JUL-2018 19:39
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2903.9	10000	11190	ng	12	15	
Bromofluorobenzene (FID)	A	1847.0	1947.0	900.0	948.7	ng	5	15	

Analyst: CJN Date: 07/09/18 Reviewer: TKM Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name : TVH IDF : 1.0
 Seqnum : 318269858026 File : 187_026 Time : 07-JUL-2018 03:10
 Cal : 318176372002 Caldate : 02-MAY-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2596.0	2721.0	15000	15720	ng	5	15	
Bromofluorobenzene (FID)	A	1847.0	1808.8	900.0	881.4	ng	-2	15	

Analyst: CJN Date: 07/09/18 Reviewer: TKM Date: 07/09/18

ENTHALPY SPIKE USER REPORT FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : QC938268 IDF : 1.0
 Seqnum : 348265550002.4 File : 184_002 Time : 03-JUL-2018 10:27
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (2000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1494.8	5000	5373	ng	7	15	u
Bromofluorobenzene (FID)	A	992.60	1008.3	900.0	914.2	ng	2	15	u

Analyst: CJN Date: 07/10/18 Reviewer: EAH Date: 07/10/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : STODD IDF : 1.0
 Seqnum : 348265550005 File : 184_005 Time : 03-JUL-2018 12:20
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36189 (1000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Bromofluorobenzene (FID)	A	992.60	1063.9	900.0	964.6	ng	7	15	

Analyst: JM2 Date: 07/03/18 Reviewer: TKM Date: 07/03/18

ENTHALPY SPIKE USER REPORT FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : QC938293 IDF : 1.0
 Seqnum : 348265550010.2 File : 184_010 Time : 03-JUL-2018 15:54
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (1000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1484.4	10000	10670	ng	7	15	u
Bromofluorobenzene (FID)	A	992.60	939.47	900.0	851.8	ng	-5	15	u

Analyst: CJN Date: 07/10/18 Reviewer: EAH Date: 07/10/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
 Seqnum : 348265550023 File : 184_023 Time : 04-JUL-2018 00:15
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (666.7X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1452.7	15000	15660	ng	4	15	
Bromofluorobenzene (FID)	A	992.60	1190.0	900.0	1079	ng	20	15	c+

CJN 07/05/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 07/05/18 Reviewer: EAH Date: 07/05/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
 Seqnum : 348265550035 File : 184_035 Time : 04-JUL-2018 07:46
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (1000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1392.2	10000	10010	ng	0	15	
Bromofluorobenzene (FID)	A	992.60	1195.5	900.0	1084	ng	20	15	c+

CJN 07/05/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 07/05/18 Reviewer: EAH Date: 07/05/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
 Seqnum : 348265550041 File : 184_041 Time : 04-JUL-2018 11:32
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (666.7X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1374.2	15000	14820	ng	-1	15	
Bromofluorobenzene (FID)	A	992.60	1192.2	900.0	1081	ng	20	15	c+

CJN 07/05/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 07/05/18 Reviewer: EAH Date: 07/05/18

+=high bias c=CCV

ENTHALPY SPIKE USER REPORT FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : QC938447 IDF : 1.0
 Seqnum : 348268395002.1 File : 186_002 Time : 05-JUL-2018 09:53
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (2000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1481.8	5000	5326	ng	7	15	u
Bromofluorobenzene (FID)	A	992.60	1030.5	900.0	934.3	ng	4	15	u

Analyst: CJN Date: 07/10/18 Reviewer: EAH Date: 07/10/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
 Seqnum : 348268395016 File : 186_016 Time : 05-JUL-2018 19:40
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (1000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1526.4	10000	10970	ng	10	15	
Bromofluorobenzene (FID)	A	992.60	798.60	900.0	724.1	ng	-20	15	c-

CJN 07/06/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 07/06/18 Reviewer: TKM Date: 07/09/18

--low bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
 Seqnum : 348268395030 File : 186_030 Time : 06-JUL-2018 04:27
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (666.7X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1383.0	15000	14910	ng	-1	15	
Bromofluorobenzene (FID)	A	992.60	1154.9	900.0	1047	ng	16	15	c+

CJN 07/06/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 07/06/18 Reviewer: TKM Date: 07/09/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
Seqnum : 348268395037 File : 186_037 Time : 06-JUL-2018 08:49
Cal : 348209722001 Caldate : 25-MAY-2018
Standards: S36848 (1000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1430.1	10000	10280	ng	3	15	
Bromofluorobenzene (FID)	A	992.60	776.74	900.0	704.3	ng	-22	15	c-

CJN 07/06/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 07/06/18 Reviewer: TKM Date: 07/09/18

--low bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
 Seqnum : 348274109002.2 File : 190_002 Time : 09-JUL-2018 09:07
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (2000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1609.4	5000	5784	ng	16	15	c+ ***
Bromofluorobenzene (FID)	A	992.60	1158.2	900.0	1050	ng	17	15	c+

Analyst: JM2 Date: 07/10/18 Reviewer: TKM Date: 07/11/18

+ = high bias c = CCV

ENTHALPY SPIKE USER REPORT FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : QC938845 IDF : 1.0
 Seqnum : 348274109004.3 File : 190_004 Time : 09-JUL-2018 10:22
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (2000X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1408.7	5000	5063	ng	1	15	u
Bromofluorobenzene (FID)	A	992.60	758.03	900.0	687.3	ng	-24	15	c- u

JM2 07/09/18 [Bromofluorobenzene (FID) A]: Passes control limits. [general version]

Analyst: CJN Date: 07/10/18 Reviewer: EAH Date: 07/10/18

--low bias c=CCV u=use

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCVOA Soil
EPA 8015B

Inst : GC19 Run Name : TVH IDF : 1.0
 Seqnum : 348274109028.2 File : 190_028 Time : 10-JUL-2018 02:53
 Cal : 348209722001 Caldate : 25-MAY-2018
 Standards: S36848 (666.7X), S37165 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1391.2	1416.6	15000	15270	ng	2	15	
Bromofluorobenzene (FID)	A	992.60	1219.0	900.0	1105	ng	23	15	c+

CJN 07/10/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 07/10/18 Reviewer: EAH Date: 07/10/18

+=high bias c=CCV

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318176372

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 05/02/18 11:32
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	122_001	ICAL	CALIB			05/02/18 11:32	1.0	1
002	122_002	ICAL	TVH_14			05/02/18 12:09	1.0	2 1
003	122_003	ICAL	TVH_15			05/02/18 12:47	1.0	3 1
004	122_004	ICAL	TVH_16			05/02/18 13:25	1.0	4 1
005	122_005	ICAL	TVH_17			05/02/18 14:02	1.0	5 1
006	122_006	ICAL	TVH_18			05/02/18 14:40	1.0	5 1
007	122_007	IB				05/02/18 15:17	1.0	1
008	122_008	ICV	TVH			05/02/18 15:55	1.0	6 1
009	122_009	X	ICV			05/02/18 16:33	1.0	6 1
010	122_010	CMARKER	CMARKER			05/02/18 17:10	1.0	7 1

Reviewed by: _____ Date: _____

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S35319

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318268400

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 07/05/18 09:20
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	186_001	X	CMARKER			07/05/18 09:20	1.0	1 2	
002	186_002	CCV/BS	QC938438	Soil	261153	07/05/18 09:57	1.0	3 2	
003	186_003	CCV	BTXE			07/05/18 10:35	1.0	4 2	
004	186_004	BSD	QC938439	Soil	261153	07/05/18 11:13	1.0	3 2	
005	186_005	CCV	BTXE			07/05/18 11:50	1.0	4 2	
006	186_006	BLANK	QC938440	Soil	261153	07/05/18 12:28	1.0	2	
007	186_007	SAMPLE	301176-013	Soil	261153	07/05/18 13:34	1.0	2	
008	186_008	SAMPLE	301176-016	Soil	261153	07/05/18 14:12	1.0	2	
009	186_009	SAMPLE	301176-017	Soil	261153	07/05/18 14:49	1.0	2	
010	186_010	SAMPLE	301176-018	Soil	261153	07/05/18 15:27	1.0	2	
011	186_011	SAMPLE	301176-019	Soil	261153	07/05/18 16:04	1.0	2	
012	186_012	SAMPLE	301176-021	Soil	261153	07/05/18 16:42	1.0	2	
013	186_013	SAMPLE	301176-022	Soil	261153	07/05/18 17:20	1.0	2	
014	186_014	SAMPLE	301176-023	Soil	261153	07/05/18 17:57	1.0	2	
015	186_015	MS	QC938116	Soil	261058	07/05/18 18:35	1.0	3 2	
016	186_016	MSD	QC938117	Soil	261058	07/05/18 19:13	1.0	3 2	
017	186_017	CCV	TVH			07/05/18 19:50	1.0	3 2	
018	186_018	X	CMARKER			07/05/18 20:28	1.0	1 2	
019	186_019	SAMPLE	301146-009	Soil	261153	07/05/18 21:05	1.0	2	
020	186_020	SAMPLE	301146-010	Soil	261153	07/05/18 21:43	1.0	2	
021	186_021	SAMPLE	301146-011	Soil	261153	07/05/18 22:21	1.0	2	
022	186_022	SAMPLE	301146-012	Soil	261153	07/05/18 22:58	1.0	2	3:GAS:7-12=91000
023	186_023	SAMPLE	301146-013	Soil	261153	07/05/18 23:36	1.0	2	3:GAS:7-12=99000
024	186_024	SAMPLE	301146-014	Soil	261153	07/06/18 00:13	1.0	2	3:GAS:7-12=70000
025	186_025	SAMPLE	301146-015	Soil	261153	07/06/18 00:51	1.0	2	5:GAS:7-12=280000
026	186_026	SAMPLE	301146-016	Soil	261153	07/06/18 01:29	1.0	2	5:GAS:7-12=310000
027	186_027	SAMPLE	301146-017	Soil	261153	07/06/18 02:06	1.0	2	5:GAS:7-12=220000
028	186_028	SAMPLE	301146-018	Soil	261153	07/06/18 02:44	1.0	2	
029	186_029	CCV	TVH			07/06/18 03:21	1.0	3 2	
030	186_030	X	CMARKER			07/06/18 03:59	1.0	1 2	
031	186_031	SAMPLE	301146-019	Soil	261153	07/06/18 04:37	1.0	2	
032	186_032	SAMPLE	301146-020	Soil	261153	07/06/18 05:14	1.0	2	5:GAS:7-12=420000
033	186_033	CCV	TVH			07/06/18 05:52	1.0	3 2	
034	186_034	X	CMARKER			07/06/18 09:01	1.0	1 2	

CJN 07/06/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 34.

Reviewed by: CJN Date: 07/06/18

Standards used: 1=S35319 2=S37192 3=S36848 4=S37506

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 318269858

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 07/06/18 09:38
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	187_001	CCV/BS	QC938653		Soil	261200	07/06/18 09:38	1.0	1 2
002	187_002	CCV	BTXE				07/06/18 10:16	1.0	3 2
003	187_003	BSD	QC938654		Soil	261200	07/06/18 10:54	1.0	1 2
004	187_004	CCV	BTXE				07/06/18 11:31	1.0	3 2
005	187_005	BLANK	QC938655		Soil	261200	07/06/18 12:09	1.0	2
006	187_006	SAMPLE	301146-018		Soil	261200	07/06/18 14:37	1.0	2
007	187_007	SAMPLE	301146-019		Soil	261200	07/06/18 15:15	1.0	2
008	187_008	SAMPLE	301146-027		Soil	261200	07/06/18 15:52	1.0	2
009	187_009	SAMPLE	301146-028		Soil	261200	07/06/18 16:30	1.0	2
010	187_010	SAMPLE	301146-029		Soil	261200	07/06/18 17:08	1.0	2
011	187_011	SAMPLE	301146-030		Soil	261200	07/06/18 17:46	1.0	2
012	187_012	SAMPLE	301203-001	M	Soil	261200	07/06/18 18:23	5000	2
013	187_013	SAMPLE	301203-002	M	Soil	261200	07/06/18 19:01	125.0	2
014	187_014	CCV	TVH				07/06/18 19:39	1.0	1 2
015	187_015	X	CMARKER				07/06/18 20:16	1.0	4 2
016	187_016	SAMPLE	301244-001		Soil	261200	07/06/18 20:54	1.0	2
017	187_017	SAMPLE	301146-020	M	Soil	261200	07/06/18 21:31	40.0	2 1:AVGAS:7-12=21000
018	187_018	SAMPLE	301146-021	M	Soil	261200	07/06/18 22:09	40.0	2
019	187_019	SAMPLE	301146-012	M	Soil	261200	07/06/18 22:47	25.0	2
020	187_020	SAMPLE	301146-013	M	Soil	261200	07/06/18 23:24	25.0	2
021	187_021	SAMPLE	301146-014	M	Soil	261200	07/07/18 00:02	25.0	2
022	187_022	SAMPLE	301146-015	M	Soil	261200	07/07/18 00:40	25.0	2
023	187_023	SAMPLE	301146-016	M	Soil	261200	07/07/18 01:17	25.0	2 1:AVGAS:7-12=23000
024	187_024	SAMPLE	301146-017	M	Soil	261200	07/07/18 01:55	25.0	2
025	187_025	SAMPLE	301146-025	M	Soil	261200	07/07/18 02:32	25.0	2
026	187_026	CCV	TVH				07/07/18 03:10	1.0	1 2
027	187_027	X	CMARKER				07/07/18 03:47	1.0	4 2
028	187_028	SAMPLE	301146-026	M	Soil	261200	07/07/18 04:25	25.0	2

JM2 07/06/18 : Sharing CMarker with previous sequence, 12 hour window intact.

CJN 07/09/18 : Lost vial error during the return of run 28.

CJN 07/09/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 28.

Reviewed by: CJN Date: 07/09/18

Standards used: 1=S36848 2=S37192 3=S37506 4=S35319

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348209722

Instrument : GC19
 Method : EPA 8015B, EPA 8021B

Begun : 05/25/18 15:22
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	145_001	IB	CALIB			05/25/18 15:22	1.0	1
002	145_002	ICAL	TVH_14			05/25/18 15:59	1.0	2 1
003	145_003	ICAL	TVH_15			05/25/18 16:37	1.0	3 1
004	145_004	ICAL	TVH_16			05/25/18 17:15	1.0	4 1
005	145_005	ICAL	TVH_17			05/25/18 17:52	1.0	5 1
006	145_006	ICAL	TVH_18			05/25/18 18:30	1.0	5 1
007	145_007	IB				05/25/18 19:07	1.0	1
008	145_008	X	ICV			05/25/18 19:45	1.0	6 1
009	145_009	ICV	TVH			05/25/18 20:23	1.0	6 1
010	145_010	CMARKER				05/25/18 21:00	1.0	7 1
011	145_011	IB	CALIB			05/25/18 21:38	1.0	1
012	145_012	ICAL	BTXE_1			05/25/18 22:16	1.0	8 1
013	145_013	ICAL	MBTXE_2			05/25/18 22:53	1.0	9 1
014	145_014	ICAL	MBTXE_3			05/25/18 23:31	1.0	9 1
015	145_015	ICAL	MBTXE_4			05/26/18 00:09	1.0	9 1
016	145_016	ICAL	MBTXE_5			05/26/18 00:46	1.0	10 1
017	145_017	ICAL	MBTXE_6			05/26/18 01:24	1.0	10 1
018	145_018	ICAL	MBTXE_7			05/26/18 02:01	1.0	10 1
019	145_019	ICAL	MBTE_7			05/26/18 02:39	1.0	11 1
020	145_020	IB				05/26/18 03:17	1.0	1
021	145_021	X	ICV			05/26/18 03:54	1.0	12 1
022	145_022	ICV	MBTXE			05/26/18 04:32	1.0	12 1

Reviewed by: _____ Date: _____

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S36859 8=S36905 9=S36904 10=S36903 11=S36980
 12=S36861

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 34826550

Instrument : GC19
 Method : EPA 8015B, EPA 8021B

Begun : 07/03/18 09:50
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	184_001	X	CMARKER			07/03/18 09:50	1.0	1 2	
002	184_002	CCV/BS	QC938268	Water	261099	07/03/18 10:27	1.0	3 2	
003	184_003	CCV	STODD			07/03/18 11:05	1.0	4 2	
004	184_004	BSD	QC938269	Water	261099	07/03/18 11:43	1.0	3 2	
005	184_005	CCV	STODD			07/03/18 12:20	1.0	4 2	1:AVGAS:7-12=17000
006	184_006	IB				07/03/18 12:58	1.0	2	
007	184_007	BLANK	QC938296	Soil	261106	07/03/18 13:36	1.0	2	
008	184_008	BLANK	QC938270	Water	261099	07/03/18 14:13	1.0	2	
009	184_009	SAMPLE	301097-008	Water	261099	07/03/18 15:06	1.0	2	
010	184_010	CCV/LCS	QC938293	Soil	261106	07/03/18 15:54	1.0	3 2	
011	184_011	CCV	STODD			07/03/18 16:32	1.0	4 2	1:AVGAS:7-12=18000
012	184_012	X	CMARKER			07/03/18 17:22	1.0	1 2	
013	184_013	SAMPLE	301207-001	Soil	261106	07/03/18 17:59	1.0	2	
014	184_014	SAMPLE	301207-002	Soil	261106	07/03/18 18:37	1.0	2	
015	184_015	SAMPLE	301207-003	Soil	261106	07/03/18 19:15	1.0	2	
016	184_016	MSS	301207-004	Soil	261106	07/03/18 19:52	1.0	2	
017	184_017	SAMPLE	301207-005	Soil	261106	07/03/18 20:30	1.0	2	
018	184_018	SAMPLE	301207-006	Soil	261106	07/03/18 21:07	1.0	2	
019	184_019	SAMPLE	301207-007	Soil	261106	07/03/18 21:45	1.0	2	
020	184_020	SAMPLE	301207-008	Soil	261106	07/03/18 22:23	1.0	2	
021	184_021	MS	QC938294	Soil	261106	07/03/18 23:00	1.0	3 2	
022	184_022	MSD	QC938295	Soil	261106	07/03/18 23:38	1.0	3 2	
023	184_023	CCV	TVH			07/04/18 00:15	1.0	3 2	1:AVGAS:7-12=16000
024	184_024	X	CMARKER			07/04/18 00:53	1.0	1 2	
025	184_025	SAMPLE	301146-001	Soil	261106	07/04/18 01:31	1.0	2	
026	184_026	SAMPLE	301146-002	Soil	261106	07/04/18 02:08	1.0	2	
027	184_027	SAMPLE	301146-003	Soil	261106	07/04/18 02:46	1.0	2	
028	184_028	SAMPLE	301146-004	Soil	261106	07/04/18 03:23	1.0	2	
029	184_029	SAMPLE	301207-009	Soil	261106	07/04/18 04:01	1.0	2	
030	184_030	SAMPLE	301207-010	Soil	261106	07/04/18 04:39	1.0	2	
031	184_031	SAMPLE	301207-011	Soil	261106	07/04/18 05:16	1.0	2	
032	184_032	SAMPLE	301229-001	Soil	261106	07/04/18 05:54	1.0	2	
033	184_033	MS	QC938077	Water	261048	07/04/18 06:31	1.0	3 2	
034	184_034	MSD	QC938078	Water	261048	07/04/18 07:09	1.0	3 2	
035	184_035	CCV	TVH			07/04/18 07:46	1.0	3 2	
036	184_036	X	CMARKER			07/04/18 08:24	1.0	1 2	
037	184_037	SAMPLE	301146-005	Soil	261106	07/04/18 09:01	1.0	2	
038	184_038	SAMPLE	301146-006	Soil	261106	07/04/18 09:39	1.0	2	
039	184_039	SAMPLE	301146-007	Soil	261106	07/04/18 10:17	1.0	2	
040	184_040	SAMPLE	301146-008	Soil	261106	07/04/18 10:54	1.0	2	
041	184_041	CCV	TVH			07/04/18 11:32	1.0	3 2	1:AVGAS:7-12=15000
042	184_042	X	CMARKER			07/04/18 12:09	1.0	1 2	

JM2 07/03/18 : Partial sequence for 301097-008.

JM2 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 11.

CJN 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 12 through 42.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348265550

Instrument : GC19
Method : EPA 8015B, EPA 8021B

Begun : 07/03/18 09:50
SOP Version : TVH_BTXE_rv23

Reviewed by: CJN Date: 07/05/18

Standards used: 1=S35319 2=S37165 3=S36848 4=S36189

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348268395

Instrument : GC19
 Method : EPA 8015B, EPA 8021B

Begun : 07/05/18 09:15
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	186_001	X	CMARKER				07/05/18 09:15	1.0	1 2	
002	186_002	CCV/BS	QC938447		Soil	261155	07/05/18 09:53	1.0	3 2	
003	186_003	CCV/BS	QC938467		Soil	261155	07/05/18 10:31	1.0	4 2	
004	186_004	BSD	QC938448		Soil	261155	07/05/18 11:08	1.0	3 2	
005	186_005	BSD	QC938468		Soil	261155	07/05/18 11:46	1.0	4 2	
006	186_006	BLANK	QC938449		Soil	261155	07/05/18 12:24	1.0	2	
007	186_007	SAMPLE	301146-021		Soil	261155	07/05/18 14:00	1.0	2	5:AVGAS:7-12=460000
008	186_008	SAMPLE	301146-022		Soil	261155	07/05/18 14:37	1.0	2	
009	186_009	MSS	301206-001		Soil	261155	07/05/18 15:17	1.0	2	
010	186_010	SAMPLE	301224-001		Soil	261155	07/05/18 15:54	1.0	2	
011	186_011	SAMPLE	301224-002		Soil	261155	07/05/18 16:32	1.0	2	
012	186_012	SAMPLE	301224-003		Soil	261155	07/05/18 17:10	1.0	2	
013	186_013	SAMPLE	301224-004		Soil	261155	07/05/18 17:47	1.0	2	
014	186_014	SAMPLE	301224-005		Soil	261155	07/05/18 18:25	1.0	2	
015	186_015	SAMPLE	301225-001		Soil	261155	07/05/18 19:03	1.0	2	sh
016	186_016	CCV	TVH				07/05/18 19:40	1.0	3 2	
017	186_017	X	CMARKER				07/05/18 20:18	1.0	1 2	
018	186_018	CCV	BTXE				07/05/18 20:55	1.0	4 2	
019	186_019	SAMPLE	301146-023		Soil	261155	07/05/18 21:33	1.0	2	
020	186_020	SAMPLE	301146-024		Soil	261155	07/05/18 22:11	1.0	2	1:AVGAS:7-12=20000
021	186_021	SAMPLE	301146-025		Soil	261155	07/05/18 22:48	1.0	2	3:AVGAS:7-12=100000
022	186_022	SAMPLE	301146-026		Soil	261155	07/05/18 23:26	1.0	2	3:AVGAS:7-12=87000
023	186_023	SAMPLE	301146-027		Soil	261155	07/06/18 00:03	1.0	2	
024	186_024	SAMPLE	301146-028		Soil	261155	07/06/18 00:41	1.0	2	
025	186_025	SAMPLE	301146-029		Soil	261155	07/06/18 01:19	1.0	2	
026	186_026	SAMPLE	301146-030		Soil	261155	07/06/18 01:56	1.0	2	
027	186_027	IB					07/06/18 02:34	1.0	2	
028	186_028	MS	QC938460		Soil	261155	07/06/18 03:11	1.0	3 2	
029	186_029	MSD	QC938461		Soil	261155	07/06/18 03:49	1.0	3 2	
030	186_030	CCV	TVH				07/06/18 04:27	1.0	3 2	1:AVGAS:7-12=15000
031	186_031	X	CMARKER				07/06/18 05:04	1.0	1 2	
032	186_032	SAMPLE	301146-022		Soil	261155	07/06/18 05:42	1.0	2	
033	186_033	SAMPLE	301146-031		Soil	261155	07/06/18 06:19	1.0	2	5:AVGAS:7-12=250000
034	186_034	SAMPLE	301203-001	M	Soil	261155	07/06/18 06:57	500.0	2	5:AVGAS:7-12=74000
035	186_035	SAMPLE	301146-021	M	Soil	261155	07/06/18 07:34	40.0	2	1:AVGAS:7-12=24000
036	186_036	SAMPLE	301203-002	M	Soil	261155	07/06/18 08:12	25.0	2	4:AVGAS:7-12=49000
037	186_037	CCV	TVH				07/06/18 08:49	1.0	3 2	
038	186_038	X	CMARKER				07/06/18 09:27	1.0	1 2	

CJN 07/06/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 38.

Reviewed by: CJN Date: 07/06/18

Standards used: 1=S35319 2=S37165 3=S36848 4=S37506

Flags used: sh=out of sample hold

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 348274109

Instrument : GC19
 Method : EPA 8015B, EPA 8021B

Begun : 07/09/18 08:29
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	190_001	X	CMARKER				07/09/18 08:29	1.0	1 2	
002	190_002	CCV	TVH				07/09/18 09:07	1.0	3 2	
003	190_003	CCV/BS	QC938924		Soil	261244	07/09/18 09:44	1.0	4 2	
004	190_004	CCV/LCS	QC938845		Soil	261244	07/09/18 10:22	1.0	3 2	
005	190_005	BSD	QC938925		Soil	261244	07/09/18 11:00	1.0	4 2	
006	190_006	BLANK	QC938846		Soil	261244	07/09/18 11:37	1.0	2	
007	190_007	SAMPLE	301272-004		Soil	261244	07/09/18 13:43	1.0	2	sh , 3:AVGAS:7-12=150000
008	190_008	SAMPLE	301272-007		Soil	261244	07/09/18 14:21	1.0	2	sh
009	190_009	SAMPLE	301272-008		Soil	261244	07/09/18 14:58	1.0	2	sh
010	190_010	SAMPLE	301272-026		Soil	261244	07/09/18 15:36	1.0	2	sh
011	190_011	SAMPLE	301272-027		Soil	261244	07/09/18 16:14	1.0	2	sh
012	190_012	MS	QC938850		Soil	261244	07/09/18 16:51	1.0	3 2	
013	190_013	MSD	QC938851		Soil	261244	07/09/18 17:29	1.0	3 2	
014	190_014	CCV	TVH				07/09/18 18:06	1.0	3 2	
015	190_015	X	CMARKER				07/09/18 18:44	1.0	1 2	
016	190_016	CCV	BTXE				07/09/18 19:22	1.0	4 2	
017	190_017	PREPBLK	QC938879	M	Soil	261244	07/09/18 19:59	25.0	2	
018	190_018	SAMPLE	301325-002		Soil	261244	07/09/18 20:37	1.0	2	
019	190_019	SAMPLE	301325-005		Soil	261244	07/09/18 21:14	1.0	2	
020	190_020	SAMPLE	301272-007		Soil	261244	07/09/18 21:52	1.0	2	sh
021	190_021	SAMPLE	301272-008		Soil	261244	07/09/18 22:30	1.0	2	sh
022	190_022	MSS	301272-026		Soil	261244	07/09/18 23:07	1.0	2	sh
023	190_023	SAMPLE	301332-001		Soil	261244	07/09/18 23:45	1.0	2	
024	190_024	SAMPLE	301326-001		Soil	261244	07/10/18 00:22	1.0	2	
025	190_025	SAMPLE	301272-004	M	Soil	261244	07/10/18 01:00	714.3	2	sh
026	190_026	SAMPLE	301146-026	M	Soil	261244	07/10/18 01:38	25.0	2	
027	190_027	SAMPLE	301146-031	M	Soil	261244	07/10/18 02:15	25.0	2	
028	190_028	CCV	TVH				07/10/18 02:53	1.0	3 2	1:AVGAS:7-12=16000
029	190_029	X	CMARKER				07/10/18 03:30	1.0	1 2	
030	190_030	CCV	BTXE				07/10/18 04:08	1.0	4 2	
031	190_031	SAMPLE	301272-027		Soil	261244	07/10/18 04:46	1.0	2	sh
032	190_032	SAMPLE	301321-005		Soil	261244	07/10/18 05:23	1.0	2	
033	190_033	CCV	TVH				07/10/18 06:01	1.0	3 2	
034	190_034	X	CMARKER				07/10/18 06:38	1.0	1 2	

CJN 07/10/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 34.

Reviewed by: CJN Date: 07/10/18

Standards used: 1=S35319 2=S37165 3=S36848 4=S37506

Flags used: sh=out of sample hold

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #: 09-08-2017

pH paper (<2.5SU), lot: 2303 1S

pH paper (0-14SU), lot: 1080H1271

	Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSV/OA?	# unused vials remaining	RR #	DF	Comments	hold	due	used	Initial/Date
1	301142-1	A	Y											7/2/18 JNL
2	301189-1	I	I											
3	I-2	I	I											
4	I-3	I	I											
5	301209-1	T	N	7										
6	301097-8	C	Y											JNL 7/5/18
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #: 09-08-2017

pH paper (<2.5SU), lot: 230315

pH paper (0-14SU), lot: 108011271

	Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSV/OA?	# unused vials remaining	RR #	DF	Comments	hold	due	uses	Initial/Date
1	301142-1	A	Y											7/2/18 JMR
2	301189-1	I	I											
3	I-2	I	I											
4	I-3	I	I											
5	301209-1	I	N	7										
6	301097-8	C	Y											JMR 7/5/18
7	I-9 MS	I	I											
8	I-9 MSD	I	I											
9	301235-1	A	Y						1000/5000	odor				
10	301236-1	I	I		Y				1000/5000	HM, cl				
11	I-2	B	I						10/5800	cl				
12	I-3	A	I						50/5000	cl				
13	301237-5	I	I											
14	I-6	B	I											
15	I-5 MS	A	I											
16	I-5 MSD	I	I											
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														

TITLE ~~TVH BTXE~~ SOIL ALIQUOT PROJECT

DATE

Continued from page		Sample	ID	Weight (g)	Wt% SO ₄	Comments: Initials	Soil ID
		301164-14	MSD A	0.93		No	
		301107-2	MS G	40.65 - 35.16 - 0.36 = 5.13		Yes	JMC 7/3/18
5		-2	MSD H	41.54 - 35.33 = 5.85			
		301147-3	MS D	42.10 - 36.11 = 5.63			
		↓ -3	MSD E	41.33 - 35.52 = 5.45			
		301148-6	MSD F	34.66 - 30.961 - 0.36 = 3.84		No	
10		301203-1	A	37.83 - 30.440 - 0.2 = 7.19			
		↓ -2	↓	35.29 - 30.072 = 5.02			
		301076-11	E	0.94			
		301213-1	A	0.96			
		301216-1		0.97			
		↓ -2		0.93			
15		↓ -3		0.99			
		301229-1	↓	1.09			
		301207-1	A	0.97			
		↓ -2		0.93			
		↓ -3		1.03			
20		↓ -4		1.03			
		↓ -5		0.98			
		↓ -6		1.08			
		↓ -7		1.07			
		↓ -8		0.95			
25		↓ -9		0.93			
		↓ -10		1.00			
		↓ -11		0.93			
		↓ -4	MS	0.95			
		↓ -4	MSD	0.93			
30		301146-1	A	37.24 - 30.636 - 0.36 = 6.24			
		↓ -2		38.00 - 30.549 = 7.09			
		↓ -3		38.00 - 30.668 = 6.97			
		↓ -4		37.53 - 30.471 = 6.70			
		↓ -5		38.50 - 30.666 = 7.47			
35		↓ -6		37.51 - 30.726 = 6.42			
		↓ -7		38.78 - 30.890 = 7.53			
		↓ -8		37.93 - 30.706 = 6.86			
40							
45							
SIGNATURE					DATE		
DISCLOSED TO AND UNDERSTOOD BY					DATE		
Continued to page							
PROPRIETARY INFORMATION							

TITLE TVH BTXE SOIL ALIQUOT PROJECT

DATE

Continued from page		ID	Weight (g)	Wet/Dry	Comments: Initials	Bkt. ID
Sample						
301164-14	MSD A		0.93	No	JMC 7/3/18	B-6
301107-2	MS G		$40.65 - 35.16 - 0.36 = 5.13$	Yes		
-2	MSD H		$41.54 - 35.33 = 5.85$			
301147-3	MS D		$42.10 - 36.11 = 5.63$			
↓ -3	MSD E		$41.33 - 35.52 = 5.45$			
301148-6	MSD F		$34.66 - 30.96 - 0.36 = 3.84$	No		
301203-1	A		$37.83 - 30.44 - 0.2 = 7.19$			
↓ -2	↓		$35.29 - 30.07 = 5.02$			
301076-11	E		0.94			
301213-1	A		0.96			
301216-1			0.97			
↓ -2			0.93			
↓ -3			0.99			
301229-1			1.09			
301207-1	A		0.97			
↓ -2			0.93			
↓ -3			1.03			
↓ -4			1.03			
↓ -5			0.98			
↓ -6			1.08			
↓ -7			1.07			
↓ -8			0.95			
↓ -9			0.93			
↓ -10			1.00			
↓ -11			0.93			
↓ -4	MS		0.95			
↓ -4	MSD		0.93			
301146-1	A		$37.24 - 30.63 - 0.36 = 6.24$			
↓ -2			$38.00 - 30.54 = 7.09$			
↓ -3			$38.00 - 30.66 = 6.97$			
↓ -4			$37.53 - 30.47 = 6.70$			
↓ -5			$38.50 - 30.66 = 7.47$			
↓ -6			$37.51 - 30.72 = 6.42$			
↓ -7			$38.78 - 30.89 = 7.53$			
↓ -8			$37.93 - 30.70 = 6.86$			
301176-13	B		$36.63 - 30.40 - 0.2 = 6.03$		JMC 7/5/18	
↓ -16			$36.20 - 30.51 = 5.48$			
↓ -17			$36.25 - 30.98 = 5.07$			
↓ -18			$36.28 - 30.31 = 5.77$			
↓ -19			$37.19 - 30.79 = 6.20$			
↓ -21			$35.46 - 30.49 = 4.76$			
↓ -22			$35.27 - 30.41 = 4.65$			
↓ -23			$35.41 - 30.68 = 4.52$			

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE TVH/BTXE Soil Aliquot

PROJECT

DATE

Continued from page		Weight (g)	NAHSA	Comments: Initials	Bal. ID
Sample	ID				
301147-3	MS J	41.64 - 35.12 - 0.36 = 6.16	Yes	JMz 7/5/18	B-6
↓ -3	MSD J	41.48 - 35.41 ↓ = 5.71	↓	↓	↓
301203-1	B	36.88 - 30.397 - 0.2 = 6.28	No		
↓ -2	↓	36.02 - 30.658 ↓ = 5.76	↓		
301203-1	E	MeOH 10/5000	No	JMz 7/5/18	B-6
↓ -2	↓	200/5000			
301146-21	A	37.78 - 30.724 - 0.36 = 6.70			
-22		37.97 - 30.578 = 7.03			
-23		37.07 - 30.606 = 6.10			
-24		38.31 - 30.751 = 7.20			
-25		38.07 - 30.900 = 6.81			
-26		38.12 - 30.682 = 7.08			
-27		37.93 - 30.662 = 6.91			
-28		37.59 - 30.552 = 6.68			
-29		37.08 - 30.812 = 5.91			
-30		37.90 - 30.894 = 6.65			
-31		37.72 - 30.575 = 6.79			
301146-9	A	37.56 - 30.382 - 0.36 = 6.82			
-10		38.53 - 30.767 = 7.40			
-11		38.45 - 30.458 = 7.63			
-12		38.78 - 30.869 = 7.55			
-13		37.89 - 30.544 = 6.99			
-14		38.13 - 30.931 = 6.84			
-15		37.36 - 30.608 = 6.39			
-16		40.12 - 30.848 = 8.91			
-17		38.28 - 30.560 = 7.36			
-18		38.05 - 30.539 = 7.15			
-19		37.37 - 30.652 = 6.36			
-20		37.80 - 30.654 = 6.79			
301206-1	A	1.01			
301224-1		0.99			
-2		1.02			
-3		1.05			
-4		0.99			
-5		0.95			
301225-1	C	1.04		comp A+B	
301206-1	MS A	0.98			
↓ -1	MSD ↓	0.92			
301146-21	C	MeOH 125/5000			
↓ -22	B	38.20 - 30.800 - 0.36 = 7.04			
301275-1	A	36.92 - 30.643 - 0.2 = 6.08			
301246-1		0.94			
↓ -2	↓	0.91			

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE TVH/BTXE Soil Aliquot

PROJECT

DATE

Continued from page		Weight (g)	ANALYSIS	Comments: Initials	Bal. ID
Sample	ID				
301147-3	MS	I 41.64 - 35.12 - 0.36 = 6.16	Yes	JMz 7/5/18	B-6
↓ -3	MSD	J 41.48 - 35.41 ↓ = 5.71	↓	↓	
301203-1		B 36.88 - 30.397 - 0.2 = 6.28	No		
↓ -2		↓ 36.02 - 30.058 ↓ = 5.76			
301203-1	E	MeOH 10/5000	No	JMz 7/5/18	B-6
↓ -2		↓ ↓ 200/5000			
301146-21	A	37.78 - 30.724 - 0.36 = 6.70			
-22		37.97 - 30.578 = 7.03			
-23		37.07 - 30.606 = 6.10			
-24		38.31 - 30.751 = 7.20			
-25		38.07 - 30.900 = 6.81			
-26		38.12 - 30.682 = 7.08			
-27		37.93 - 30.662 = 6.91			
-28		37.59 - 30.552 = 6.68			
-29		37.08 - 30.812 = 5.91			
-30		37.90 - 30.894 = 6.65			
-31		37.72 - 30.575 = 6.79			
301146-9	A	37.56 - 30.382 - 0.36 = 6.82			
-10		38.53 - 30.767 = 7.40			
-11		38.45 - 30.458 = 7.63			
-12		38.78 - 30.869 = 7.55			
-13		37.89 - 30.544 = 6.99			
-14		38.13 - 30.931 = 6.84			
-15		37.36 - 30.608 = 6.39			
-16		40.12 - 30.848 = 8.91			
-17		38.28 - 30.560 = 7.36			
-18		38.05 - 30.539 = 7.15			
-19		37.37 - 30.652 = 6.36			
-20		37.80 - 30.654 = 6.79			
301206-1	A	1.01			
301224-1		0.99			
-2		1.02			
-3		1.05			
-4		0.99			
-5		0.95			
301225-1	C	1.04		comp A+B	
301206-1	MS	A 0.98			
↓ -1	MSD	↓ 0.92			
301146-21	C	MeOH 125/5000			
↓ -22	B	38.20 - 30.800 - 0.36 = 7.04			
301275-1	A	36.92 - 30.643 - 0.2 = 6.08			
301246-1		0.94			
↓ -2		0.91			

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

Sample Run Log

Date: 7/6/18		Instrument: GC 05	Batch#(s): 261200			Analyst(s): CTN, Jmz	
Julian Date	File #	Sample Name	Amount	Units	Comments	QC Type	QC#
187	01	G2					
	02	B2					
	03	G2					
	04	B2					
	05	MB	Jmz 6.53	g	B	LCS	QC
	06	146-18	7/6 5.01		6.53 g B	BS	QC 938653
	07	-12	6.97		5.01	BSD	QC 938654
	08	-27	7.26		6.97	MS	QC
	09	-28	6.81		7.26	MSD	QC
	10	-29	7.21		6.81	BLANK	QC 938655
	11	-30			7.21		
	12	203-1	1/5000	ul	E	LCS	QC
	13	-2	40/5000	ul		BS	QC
	14	G5				BSD	QC
	15	CM				MS	QC
	16	244-1	6.84	g	A	MSD	QC
	17	146-20	125/5000	ul	C	BLANK	QC
	18	-21					
	19	-12	200/5000				
	20	-13					
	21	-14					
	22	-15					
	23	-16					
	24	-17					
	25	-25					
	26	G7					
	27	CM					
	28	146-26	200/5000	ul	C		
	29	-31					
	30	G5					
	31	CM					
	32						
	33						
	34						
	35						
	36						
	37						
	38						
	39						
	40						
	41						
	42						
	43						
	44						
	45						
	46						
	47						
	48						
	49						
	50						

Standards & spikes prepared following C&T SOP # VOC 7.1, revision # 23

Includes Solid Samples? yes no

Solid QC Matrix, Reagent ID: Glass bead/BEAD-2000

~~7/6/18~~

TITLE TVH/BTXE Soil Aliquot PROJECT DATE

Sample	ID	Weight (g)	Notes	Comments: Initials	Anal ID
301246-3	A	0.97		JMz 7/5/18	B-6
↓ -4		1.00			
↓ - MS		0.98			
↓ - MSD		0.97			
301243-1	A	34.72 - 30.584 - 0.2 = 3.94			
301146-12	C	MeOH 200/5000		JMz 7/6/18	B-6
↓ -13					
↓ -14					
↓ -15					
↓ -16					
↓ -17					
↓ -18	B	37.50 - 30.612 - 0.36 = 6.53			
↓ -19	I	36.12 - 30.751 = 5.01			
↓ -20	C	MeOH 125/5000			
↓ -21					
↓ -25					
↓ -26					
↓ -27	B	38.07 - 30.737 - 0.36 = 6.97			
↓ -28		38.16 - 30.545 = 7.26			
↓ -29		37.63 - 30.462 = 6.81			
↓ -30		37.94 - 30.373 = 7.21			
↓ -31	C	MeOH 200/5000			
301203-1	E	1/5000			
↓ -2	I	40/5000			
301276-1	B	0.93			
↓ -3	I	0.90			
301221-2	A	37.18 - 30.771 - 0.36 = 6.05			
↓ -3		37.85 - 30.713 = 6.78			
↓ -5		37.39 - 30.531 = 6.50			
↓ -6		36.77 - 30.524 = 5.89			
↓ -7		36.64 - 30.602 = 5.68			
↓ -8		35.34 - 30.593 = 4.39			
↓ -10		37.20 - 30.271 = 6.57			
↓ -11		33.84 - 30.144 = 3.34			
↓ -13		37.51 - 30.728 = 6.92			
↓ -14		37.72 - 30.441 = 6.92			
↓ -15		37.44 - 30.453 = 6.63			
↓ -16		36.12 - 30.461 = 5.30			
↓ -17		35.53 - 30.566 = 4.60			
301225-1	C	0.96			
301232-1	I	0.98			
301235-5	A	0.97			
301276-1	MS B	0.95			

Continued to page

SIGNATURE _____ DATE _____

DISCLOSED TO AND UNDERSTOOD BY _____ DATE _____

PROPRIETARY INFORMATION

TITLE PROJECT DATE

Continued from page		ID	Weight (g)	ANALYSIS	Comments Initials	Real ID
Sample	MSD	B	1.08	No	JMC 7/6/18	B-6
301276-1		B				
301244-1		A	37.30 - 30.265 - 0.2 = 6.84			
↓ -2			36.19 - 30.385 = 5.61			
↓ -3			35.87 - 30.092 = 5.58			
301278-1			35.61 - 30.282 - 0.62 = 4.71			
↓ -2			34.93 - 30.461 = 3.85			
↓ -3			35.39 - 30.633 = 4.14			
301253-1			37.28 - 30.166 - 0.36 = 6.75			
↓ -2			37.92 - 31.047 = 6.51			
↓ -3			37.95 - 30.640 = 6.95			
↓ -4			36.01 - 30.356 = 5.29			
↓ -5			37.10 - 30.526 = 6.21			
↓ -6			38.74 - 30.611 = 7.77			
↓ -7			36.14 - 30.513 = 5.27			
301297-1		A	0.97			
301289-1		B	0.97			
↓ -2			1.08			
↓ -3			1.01			
↓ -4			1.02			
301307-5		A	0.98		comp 1-4	
301296-1			0.97		comp E-H	
301311-1			0.91			
301267-5			1.07		comp 1-4	
↓ -10			0.99		comp 6-9	
301221-3		E	MeOH 200/5000			
↓ -5			8/5000			
↓ -6			200/5000			
↓ -7		B	36.29 - 30.568 - 0.36 = 5.36			
↓ -8		1	36.14 - 30.933 = 4.85			

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

Sample	ID	Weight (g)	MeOH Lot #	MeOH vol. (mL)	Bal ID	Pipette Lot	Comments & Initials
Prep Blk	-	5.00	173605TF	5.0	B-8	06-15-2017	PAW 6/10/18
300519-2	A	0.53	|	|	B-6	|	| oil layer on water
300400-1	A	0.98	|	|	|	|	JM2 6/11/18
↓ -2	↓	0.94	|	|	|	|	|
↓ -3	↓	1.20	|	|	|	|	|
Prep blk	-	5.00	↓	↓	↓	↓	↓
300768-1	A	4.96	173605TF	5.0	B-6	06-15-2017	JM2 6/18/18
Prep blk	-	5.00	↓	↓	↓	↓	↓
300920-3	B	5.06	173605TF	5.0	B-6	09-08-2017	JM2 6/22/18
↓ -13	↓	5.10	↓	↓	↓	↓	↓
Prep blk	-	5.00	↓	↓	↓	↓	↓
Prep blk	-	5.00	173605TF	5.0	B-6	09-08-2017	JM2 6/25/18
Prep blk	-	5.00	↓	↓	↓	↓	JM2 6/26/18
300939-9	B	4.93	173605TF	5.0	B-6	09-08-2017	|
300966-1	C	2.48	↓	↓	↓	↓	↓
Prep blk	-	5.00	173605TF	5.0	B-6	09-08-2017	JM2 6/27/18
Prep blk	-	5.00	↓	↓	↓	↓	JM2 6/28/18
301196-12	C	35.87 - 28.353 = 7.16	DQ538	5.0	B-6	09-08-2017	JM2 7/6/18, client prepared
↓ -13	↓	35.14 - 28.333 = 6.45	|	|	|	|	|
↓ -14	↓	35.58 - 28.640 = 6.58	|	|	|	|	|
↓ -15	↓	36.81 - 28.906 = 7.54	|	|	|	|	|
↓ -16	↓	35.38 - 28.224 = 6.80	|	|	|	|	|
↓ -17	↓	35.50 - 28.254 = 6.89	|	|	|	|	|
↓ -20	↓	36.19 - 28.931 = 7.40	|	|	|	|	|
↓ -21	↓	---	|	|	|	|	|
↓ -25	↓	35.63 - 28.602 = 6.67	|	|	|	|	|
↓ -26	↓	35.67 - 28.582 = 6.73	|	|	|	|	|
↓ -31	↓	35.64 - 28.555 = 6.73	|	|	|	|	|

JM2
7/6

Continued on Page _____

Read and Understood By _____

Signed _____

Date _____

Signed _____

Date _____

Date & initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot #	Surrogate Std. #	Surrogate Std. Vol. (mL)	Comments	Bal. ID
6/15/18 JMC	300716-7 E	6.79	5.0	DQ538	35.07	28.126	-0.2 client prepped	B-6
JMC 6/19/18	300716-8 E		5.0	DQ538		28.126		
	1-13							
6/19/18 JMC	300814-1 E	6.57	5.0	DQ538	35.09	28.320	-0.2 client prepped	B-6
	1-2	7.07			35.75	28.484	-0.2	
6/19/18 AHT	300688-21 C	5.50			34.13	28.427	-0.2	B-8
6/20/18 ZR	300721-5 C	5.06	5.0	DQ538	33.56	28.302	-0.2 client prepped	B-8
		5.80			33.99	27.995		
		2.04			30.63	28.392		
6/21/18 JMC	300897-1 E	7.24	5.0	DQ538	35.78	28.339	-0.2 client prepped	B-6
		7.07			35.78	28.538		
		7.42			36.05	28.434		
		7.11			35.62	28.311		
		7.14			35.68	28.339		
		7.49			36.12	28.428		
		7.19			35.72	28.330		
		6.96			35.37	28.210		
6/21/18 AHT	300814-3 E	5.22			34.08	28.660	-0.2	B-8
		5.54			34.18	28.444		
6/22/18 CON	300914-5 E	2.23	5.0	DQ538	30.93	28.477	-0.2 client prepped	B-6
6/23/18 AHT	300914-6 E	4.14	5.0		32.97	28.637	-0.2 client prepped	B-8
6/24/18 PAW	300914-3 E	4.50	5.0	DQ538	33.16	28.462	-0.2	
		3.82			32.48	28.465		
	300921-14 C	4.47			33.26	28.433	-0.36	
6/26/18 ZR	300939-6 E	7.50	5.0	DQ538	36.19	28.488	-0.20 client prepped	B-8
6/27/18 ZR	300932-1	4.34			32.89	28.350		
6/28/18 ZR		4.78			33.43	28.446		
6/28/18 AHT	300929-3 E	4.16			37.98	28.463	-0.36	B-8
7/1/18 PAW	301107-2 R	5.27		C798193	38.71	33.08	-36	
		5.93	5.36		39.35	33.63		
		6.56			39.97	33.05		
7/5/18 ZR	301148-6 M	4.66	5.0	DQ538	33.17	28.153	-0.36	
		4.43			33.07	28.277		
7/5/18 JMC	301203-1 E	6.51	5.0	DQ538	39.96	28.798	-0.20 client prepped	B-6

Date
7/5/18
7/6/18
7/6/18
7/7/18
7/8/18
7/9/18

Read and Understood By

[Signature]

7/6/18

Signed

Date

Signed

Date

PROJECT 50.35 MeOH Prep Log

Continued from Page

Bal. ID	Date & initial	Sample ID	Soil wt. (g)	MeOH Vol. (mL)	MeOH Lot. #	Surrogate std. #	Surrogate std. Vol. (mL)	Comments	Bal. ID
B-6	7/5/18 JMT	301203-2 E	5.37	5.0	DQ538	34.01-28.938	0.2	client prepped	B-6
	↓	301146-21 C	6.94	↓	↓	35.83-28.53	0.36	↓	↓
	7/5/18 AHT	301275-1 E	4.52	↓	↓	33.18-28.457	0.2	↓	B-8
B-6	7/6/18 ZR	301148-4 E	5.06	5.0	DQ538	38.38-32.96	0.36	↓	↓
	↓	↓ 8 ↓	6.08	↓	↓	39.45-33.01	0.36	↓	↓
B-8	7/6/18 JMT	301221-3 E	6.83	5.0	DQ538	35.57-28.382	0.36	client prepped	B-6
B-8	↓	↓ -5 ↓	6.10	↓	↓	35.07-28.608	↓	↓	↓
	↓	↓ -6 ↓	5.18	↓	↓	33.87-28.329	↓	↓	↓
	7/7/18 AHT	301244-1 E	6.19	5.0	DQ538	35.03-28.645	0.2	client prepped	B-8
B-6	↓	↓ -3 ↓	5.57	↓	↓	34.14-28.587	0.2	↓	↓
	7/8/18 KSM	301221-11 E	6.13	5.0	DQ538	34.70-28.211	0.36	CLIENT PREPPED	B-8
	↓	↓ -3 F	6.09	↓	↓	35.07-28.617	0.36	↓	↓
	7/9/18 ZR	↓ -17 E	4.69	↓	↓	33.25-28.20	0.36	↓	↓
	↓	301244-2 ↓	5.38	↓	↓	33.93-28.346	0.20	↓	↓
B-8									
B-6									
B-8									
B-8									
B-8									
B-6									

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Sample Run Log

Date: 7/9/18		Instrument: GC 19		Batch#(s): 261244			Analyst(s): CJN, Jmz	
Julian	Date	File #	Sample Name	Amount	Units	Comments	QC Type	QC#
190	01	✓	CM					
	02	✓	G2					
	03	✓	B2					
	04	✓	G2				LCS	QC 938845
	05	✓	B2				BS	QC 938924
	06	✓	MB				BSD	QC 938925
	07	✓	272-4	0.95	g	A	MS	QC 938850
	08	✓	1-7	0.97	|	|	MSD	QC 938851
	09	✓	1-8	1.04	|	|	BLANK	QC 938846
	10	✓	1-26	1.00	|	|	Preblk	QC 938879
	11	✓	1-27	0.97	|	|		
	12	✓	1-26 MS	0.94	|	|	LCS	QC
	13	✓	1-26 MSD	0.91	↓	↓	BS	QC
	14	✓	G5				BSD	QC
	15	✓	CM				MS	QC
	16	✓	B5				MSD	QC
	17	✓	Preblk				BLANK	QC
	18	✓	325-2	4.63	g	B		
	19	✓	1-5	6.13	|	↓		
	20	✓	272-7	1.00	|	A		
	21	✓	1-8	1.02	|	↓		
	22	✓	1-26	0.92	|	↓		
	23	✓	1-27 Jmz 332-1	0.97	↓	Jmz 0.91 g B		
	24	✓	326-1	0.93	↓	C		
	25	✓	272-4	7/5000	μL	A		
	26	✓	146-26	200/5000	↓	C		
	27	✓	1-31	200/5000	↓	↓		
	28	✓	G7					
	29	✓	CM					
	30	✓	B7					
	31	✓	272-27	0.97	g	A		
	32	✓	321-5	1.07	↓	↓		
	33	✓	G5					
	34	✓	CM					
	35							
	36							
	37							
	38							
	39							
	40							
	41							
	42							
	43							
	44							
	45							
	46							
	47							
	48							
	49							
	50							

Standards & spikes prepared following C&T SOP # VOC 7.1, revision # 24

Includes Solid Samples? yes no

Solid QC Matrix, Reagent ID: Glass bead/BEAD-2000

~~END 7/10/18~~

TITLE TVH/BTX E SOIL ALIQUOT PROJECT

DATE

Continued from page	Sample	ID	Weight (g)	NAI/SD	Comments	Initials	Bal. ID
	301276-1	MSD B	1.08	No	JMc	7/6/18	B-6
	301244-1	A	37.30 - 30.265 - 0.2 = 6.84				
5	↓ -2		36.19 - 30.385 = 5.61				
	↓ -3		35.87 - 30.092 = 5.58				
	301278-1		35.61 - 30.282 - 0.62 = 4.71				
	↓ -2		34.93 - 30.461 = 3.85				
	↓ -3		35.39 - 30.633 = 4.14				
10	301253-1		37.28 - 30.166 - 0.36 = 6.75				
	↓ -2		37.92 - 31.047 = 6.51				
	↓ -3		37.95 - 30.640 = 6.95				
	↓ -4		36.01 - 30.356 = 5.29				
	↓ -5		37.10 - 30.526 = 6.21				
15	↓ -6		38.74 - 30.611 = 7.77				
	↓ -7		36.14 - 30.513 = 5.27				
	301297-1	A	0.97				
	301289-1	B	0.97				
20	↓ -2		1.08				
	↓ -3		1.01				
	↓ -4		1.02				
	301307-5	A	0.98		comp 1-4		
	301296-1		0.97		comp E-H		
	301311-1		0.91				
25	301267-5		1.07		comp 1-4		
	↓ -10		0.99		comp 6-9		
	301221-3	E	MeOH 200/5000				
	↓ -5		8/5000				
	↓ -6		200/5000				
30	↓ -7	B	36.29 - 30.568 - 0.36 = 5.36				
	↓ -8	L	36.14 - 30.933 = 4.85				
	301146-26	C	MeOH 200/5000	No	JMc	7/9/18	B-6
	↓ -31		200/5000				
	301221-11	E	4/5000				
35	↓ -13	F	15/5000				
	↓ -14	E	37.54 - 30.425 - 0.36 = 6.76				
	↓ -15	C	36.73 - 30.324 = 6.05				
	↓ -16		36.33 - 30.708 = 5.26				
	↓ -17		35.62 - 30.536 = 4.72				
40	301253-1	B	37.93 - 30.707 = 6.86				
	↓ -2	E	MeOH 75/5000				
	↓ -3	I	100/5000				
	↓ -4	B	37.98 - 31.177 - 0.36 = 6.44				
45	301272-4	A	0.95				
	↓ -7	L	0.97				

Continued to page

SIGNATURE	DATE
DISCLOSED TO AND UNDERSTOOD BY	DATE
PROPRIETARY INFORMATION	

TITLE TVHIBTXE SOIL ALIQUOT PROJECT

DATE

Continued from page						
Sample	ID	Weight (g)	Method	Comments: Initials	Bact. ID	
301272-8	A	1.04	No	JMZ 7/9/18	B-6	
-26		1.00				
-27		0.97				
-26 MS		0.94				
-26 MSO		0.91				
301254-1	D	36.40 - 30.255 - 0.36 = 5.79				
-2	B	37.47 - 30.670 = 6.44				
-3	A	37.45 - 30.659 = 6.43				
-4		36.25 - 30.071 = 5.82				
-5		37.72 - 30.199 = 7.16				
-6		36.24 - 30.779 = 5.10				
-7		36.85 - 30.709 = 5.78				
301267-15	A	1.07		comp 267-(11-14)		
-20		1.02		-(16-19)		
-25		1.00		-(21-24)		
-30		0.91		-(26-29)		
-35		1.02		-(31-34)		
-40		1.07		-(36-39)		
-45		0.98		-(41-44)		
-50		1.04		-(46-49)		
-55		1.04		-(51-54)		
-25 MS		1.10		-(21-24)		
-25 MSO		0.91				
301272-4	A	MeOH 7/5000				
-7		1.00				
-8		1.02				
-26		0.92				
-27		0.97				
301267-35	A	MeOH 185/5000				
-40		1.09				
301321-5	A	1.07		comp 321-(1-4)		
301326-1	C	0.93				
301332-1	B	0.91				
301325-2		35.56 - 30.731 - 0.2 = 4.63				
-5		37.32 - 30.990 = 6.13				

SIGNATURE

DATE

Continued to page

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

Sample	ID	Weight (g)	MeOH lot #	MeOH vol (mL)	Bal ID	pipette lot	Comments & Initials	
Prep Blk	-	5.00	173605TF	5.0	B-8	06-15-2017	PAW 6/10/18	
300519-2	A	0.53	|	|	B-6	|	↓ oil layer on water	
300400-1	A	0.98	|	|	|	|	JM2 6/11/18	
↓ -2	↓	0.94	|	|	|	|	|	
↓ -3	↓	1.20	|	|	|	|	|	
Prep Blk	-	5.00	↓	↓	↓	↓	↓	
300768-1	A	4.96	173605TF	5.0	B-6	06-15-2017	JM2 6/18/18	
Prep Blk	-	5.00	↓	↓	↓	↓	↓	
300920-3	B	5.06	173605TF	5.0	B-6	09-08-2017	JM2 6/22/18	
↓ -13	↓	5.10	↓	↓	↓	↓	↓	
Prep Blk	-	5.00	↓	↓	↓	↓	↓	
Prep Blk	-	5.00	173605TF	5.0	B-6	09-08-2017	JM2 6/25/18	
Prep Blk	-	5.00	↓	↓	↓	↓	JM2 6/26/18	
300939-9	B	4.93	173605TF	5.0	B-6	09-08-2017	↓	
300966-1	C	2.48	↓	↓	↓	↓	↓	
Prep Blk	-	5.00	173605TF	5.0	B-6	09-08-2017	JM2 6/27/18	
Prep Blk	-	5.00	↓	↓	↓	↓	JM2 6/28/18	
301196-12	C	35.87-28.353-0.36=7.16	DQ538	5.0	B-6	09-08-2017	JM2 7/6/18, client prepared	
↓ -13	↓	35.14-28.383 = 6.45	|	|	|	|	|	
↓ -14	↓	35.58-28.440 = 6.58	|	|	|	|	|	
↓ -15	↓	36.81-28.906 = 7.54	|	|	|	|	|	
↓ -16	↓	35.38-28.224 = 6.80	|	|	|	|	|	
↓ -17	↓	35.50-28.254 = 6.89	|	|	|	|	|	
↓ -20	↓	36.19-28.431 = 7.40	|	|	|	|	|	
↓ -21	↓	-----						|
↓ -25	↓	35.63-28.602 = 6.67	|	|	|	|	|	
↓ -26	↓	35.67-28.582 = 6.73	|	|	|	|	|	
↓ -31	↓	35.64-28.555 = 6.73	|	|	|	|	|	
301272-4	A	4.92	173605TF	5.00	B-6	09-08-2017	JM2 7/18/18	
Prep Blk	-	5.00	↓	↓	↓	↓	↓	
301267-35	A	5.03	↓	↓	↓	↓	↓	

JM2
7/6

Continued on Page

Read and Understood By

Signed

Date

Signed

Date

Laboratory Job Number 301146

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Soil

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID: BR11-1SB019[3] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261160
 Lab ID: 301146-001 Prepared: 07/05/18
 Moisture: 11% Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	4.6 Y	1.1	0.34
Motor Oil C24-C36	29	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	113	59-130

Field ID: BR11-1SB019[5] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261160
 Lab ID: 301146-002 Prepared: 07/05/18
 Moisture: 16% Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.57 J Y	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	106	59-130

Field ID: BR11-1SB019[7] Diln Fac: 1.000
 Type: SAMPLE Batch#: 261160
 Lab ID: 301146-003 Prepared: 07/05/18
 Moisture: 16% Analyzed: 07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.77 J Y	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	115	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	BR11-1SB019[10]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261160
Lab ID:	301146-004	Prepared:	07/05/18
Moisture:	16%	Analyzed:	07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.0 J Y	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	106	59-130

Field ID:	BR11-1SB019[15]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261160
Lab ID:	301146-005	Prepared:	07/05/18
Moisture:	16%	Analyzed:	07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.90 J Y	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	109	59-130

Field ID:	BR11-1SB019[20]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261160
Lab ID:	301146-006	Prepared:	07/05/18
Moisture:	13%	Analyzed:	07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.1 J Y	1.1	0.35
Motor Oil C24-C36	2.8 J	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	112	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	BR11-1SB019[25]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261160
Lab ID:	301146-007	Prepared:	07/05/18
Moisture:	14%	Analyzed:	07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.63 J Y	1.2	0.35
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	106	59-130

Field ID:	BR11-1SB019[30]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261160
Lab ID:	301146-008	Prepared:	07/05/18
Moisture:	14%	Analyzed:	07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	5.5 Y	1.2	0.36
Motor Oil C24-C36	27	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	118	59-130

Field ID:	BR11-1SB019[35]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261160
Lab ID:	301146-009	Prepared:	07/05/18
Moisture:	14%	Analyzed:	07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.68 J Y	1.2	0.36
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	94	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	DUP06282018-01	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261160
Lab ID:	301146-010	Prepared:	07/05/18
Moisture:	17%	Analyzed:	07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.48 J Y	1.2	0.37
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	106	59-130

Field ID:	BR11-1SB010[3]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261160
Lab ID:	301146-011	Prepared:	07/05/18
Moisture:	16%	Analyzed:	07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	110 Y	1.2	0.36
Motor Oil C24-C36	120	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	105	59-130

Field ID:	BR11-1SB010[5]	Diln Fac:	100.0
Type:	SAMPLE	Batch#:	261160
Lab ID:	301146-012	Prepared:	07/05/18
Moisture:	15%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	18,000	120	36
Motor Oil C24-C36	1,600 Y	590	180

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	BR11-1SB010[7]	Diln Fac:	20.00
Type:	SAMPLE	Batch#:	261160
Lab ID:	301146-013	Prepared:	07/05/18
Moisture:	14%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	4,200	23	7.2
Motor Oil C24-C36	340 Y	120	35

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

Field ID:	BR11-1SB010[10]	Diln Fac:	20.00
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-014	Prepared:	07/05/18
Moisture:	15%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	2,200	23	7.2
Motor Oil C24-C36	180 Y	120	36

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

Field ID:	BR11-1SB010[15]	Diln Fac:	20.00
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-015	Prepared:	07/05/18
Moisture:	14%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	3,600	23	7.1
Motor Oil C24-C36	290 Y	120	35

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	BR11-1SB010[20]	Diln Fac:	50.00
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-016	Prepared:	07/05/18
Moisture:	14%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	15,000	58	18
Motor Oil C24-C36	1,400 Y	290	87

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

Field ID:	BR11-1SB010[25]	Diln Fac:	20.00
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-017	Prepared:	07/05/18
Moisture:	16%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	3,500	24	7.3
Motor Oil C24-C36	270 Y	120	36

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

Field ID:	BR11-1SB010[30]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-018	Prepared:	07/05/18
Moisture:	16%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.82 J Y	1.2	0.36
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	99	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	BR11-1SB010[35]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-019	Prepared:	07/05/18
Moisture:	17%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	26	1.2	0.37
Motor Oil C24-C36	2.8 J Y	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	103	59-130

Field ID:	BR11-1SB010[17.5]	Diln Fac:	20.00
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-020	Prepared:	07/05/18
Moisture:	14%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	10,000	23	7.1
Motor Oil C24-C36	880 Y	120	35

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

Field ID:	DUP06282018-03	Diln Fac:	50.00
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-021	Prepared:	07/05/18
Moisture:	14%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	7,700	58	18
Motor Oil C24-C36	620 Y	290	88

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	BR11-1SB018[3]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-022	Prepared:	07/05/18
Moisture:	17%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	35 Y	1.2	0.37
Motor Oil C24-C36	32	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	101	59-130

Field ID:	BR11-1SB018[5]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-023	Prepared:	07/05/18
Moisture:	12%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	36 Y	1.1	0.35
Motor Oil C24-C36	39	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	105	59-130

Field ID:	BR11-1SB018[7]	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-024	Prepared:	07/05/18
Moisture:	16%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	1,100	12	3.6
Motor Oil C24-C36	94 Y	59	18

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	BR11-1SB018[10]	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	261170
Lab ID:	301146-025	Prepared:	07/05/18
Moisture:	15%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	1,000	12	3.6
Motor Oil C24-C36	81 Y	58	18

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

Field ID:	BR11-1SB018[15]	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	261199
Lab ID:	301146-026	Prepared:	07/06/18
Moisture:	15%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	980	12	3.6
Motor Oil C24-C36	82 Y	59	18

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

Field ID:	BR11-1SB018[20]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261199
Lab ID:	301146-027	Prepared:	07/06/18
Moisture:	12%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	3.8 Y	1.1	0.35
Motor Oil C24-C36	ND	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	102	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	BR11-1SB018[25]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261199
Lab ID:	301146-028	Prepared:	07/06/18
Moisture:	15%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.2 Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	90	59-130

Field ID:	BR11-1SB018[30]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261199
Lab ID:	301146-029	Prepared:	07/06/18
Moisture:	15%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	1.3 Y	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	93	59-130

Field ID:	BR11-1SB018[35]	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	261199
Lab ID:	301146-030	Prepared:	07/06/18
Moisture:	16%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	0.69 J Y	1.2	0.36
Motor Oil C24-C36	ND	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	86	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/28/18
Units:	mg/Kg	Received:	06/28/18
Basis:	dry		

Field ID:	DUP06282018-02	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	261199
Lab ID:	301146-031	Prepared:	07/06/18
Moisture:	14%	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	2,200	12	3.6
Motor Oil C24-C36	160 Y	59	18

Surrogate	%REC	Limits
o-Terphenyl	DO	59-130

Type:	BLANK	Batch#:	261160
Lab ID:	QC938469	Prepared:	07/05/18
Diln Fac:	1.000	Analyzed:	07/05/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	101	59-130

Type:	BLANK	Batch#:	261170
Lab ID:	QC938515	Prepared:	07/05/18
Diln Fac:	1.000	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	103	59-130

Type:	BLANK	Batch#:	261199
Lab ID:	QC938647	Prepared:	07/06/18
Diln Fac:	1.000	Analyzed:	07/06/18

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	98	59-130

J= Estimated value
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC938470	Batch#:	261160
Matrix:	Soil	Prepared:	07/05/18
Units:	mg/Kg	Analyzed:	07/05/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	47.52	95	56-137

Surrogate	%REC	Limits
o-Terphenyl	101	59-130

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC938516	Batch#:	261170
Matrix:	Soil	Prepared:	07/05/18
Units:	mg/Kg	Analyzed:	07/06/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	46.49	93	56-137

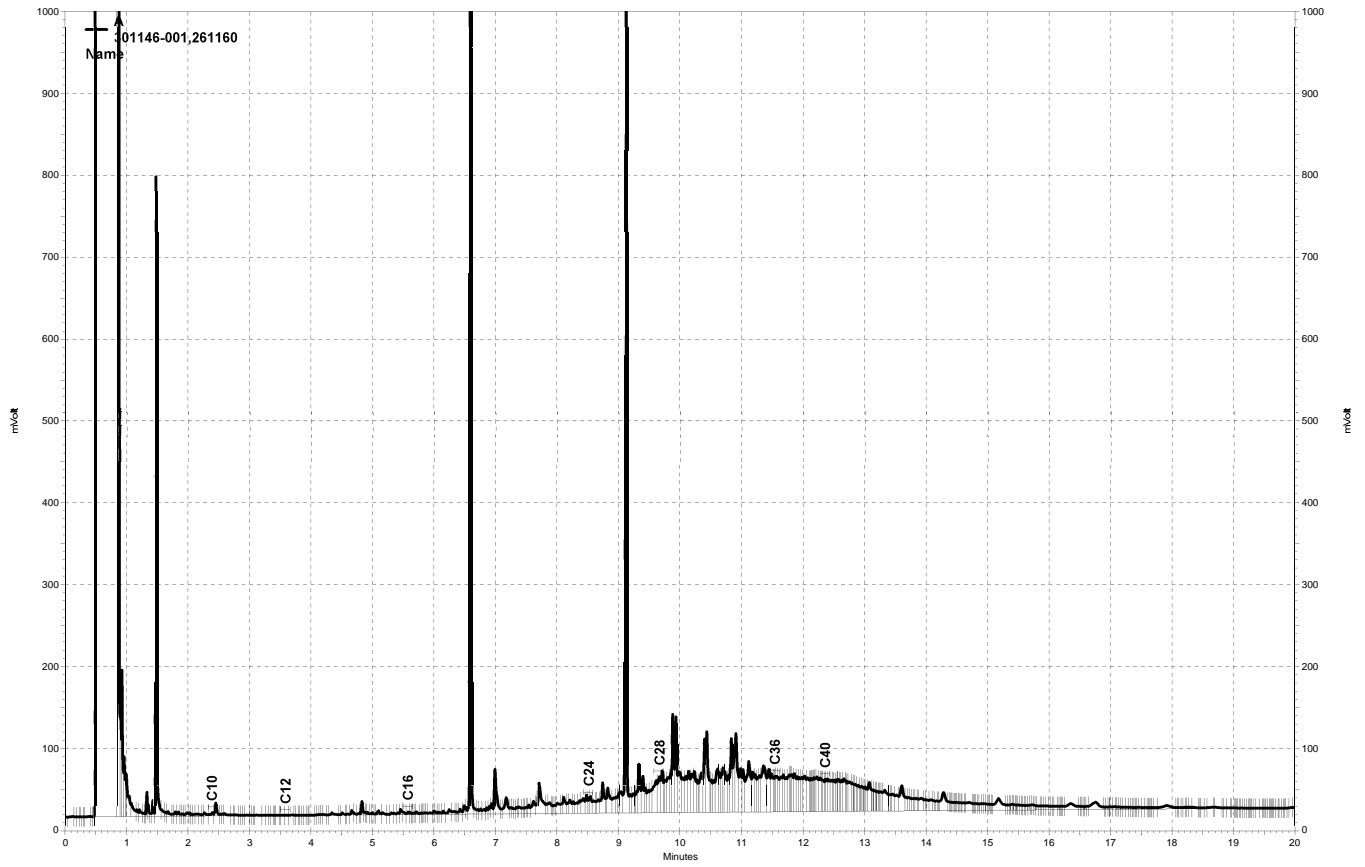
Surrogate	%REC	Limits
o-Terphenyl	107	59-130

Batch QC Report

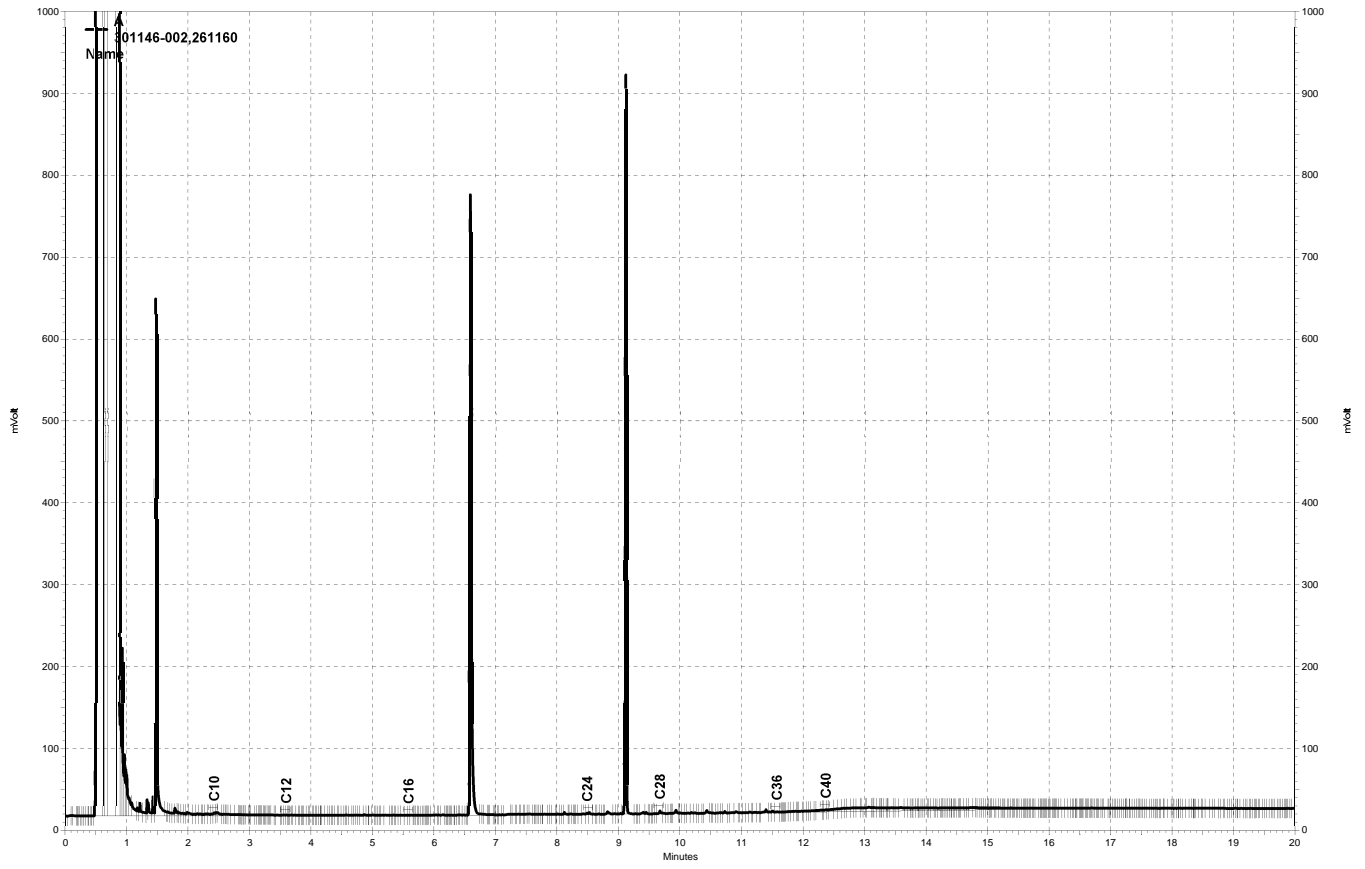
Total Extractable Hydrocarbons			
Lab #:	301146	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3550C
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC938648	Batch#:	261199
Matrix:	Soil	Prepared:	07/06/18
Units:	mg/Kg	Analyzed:	07/06/18

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	47.79	96	56-137

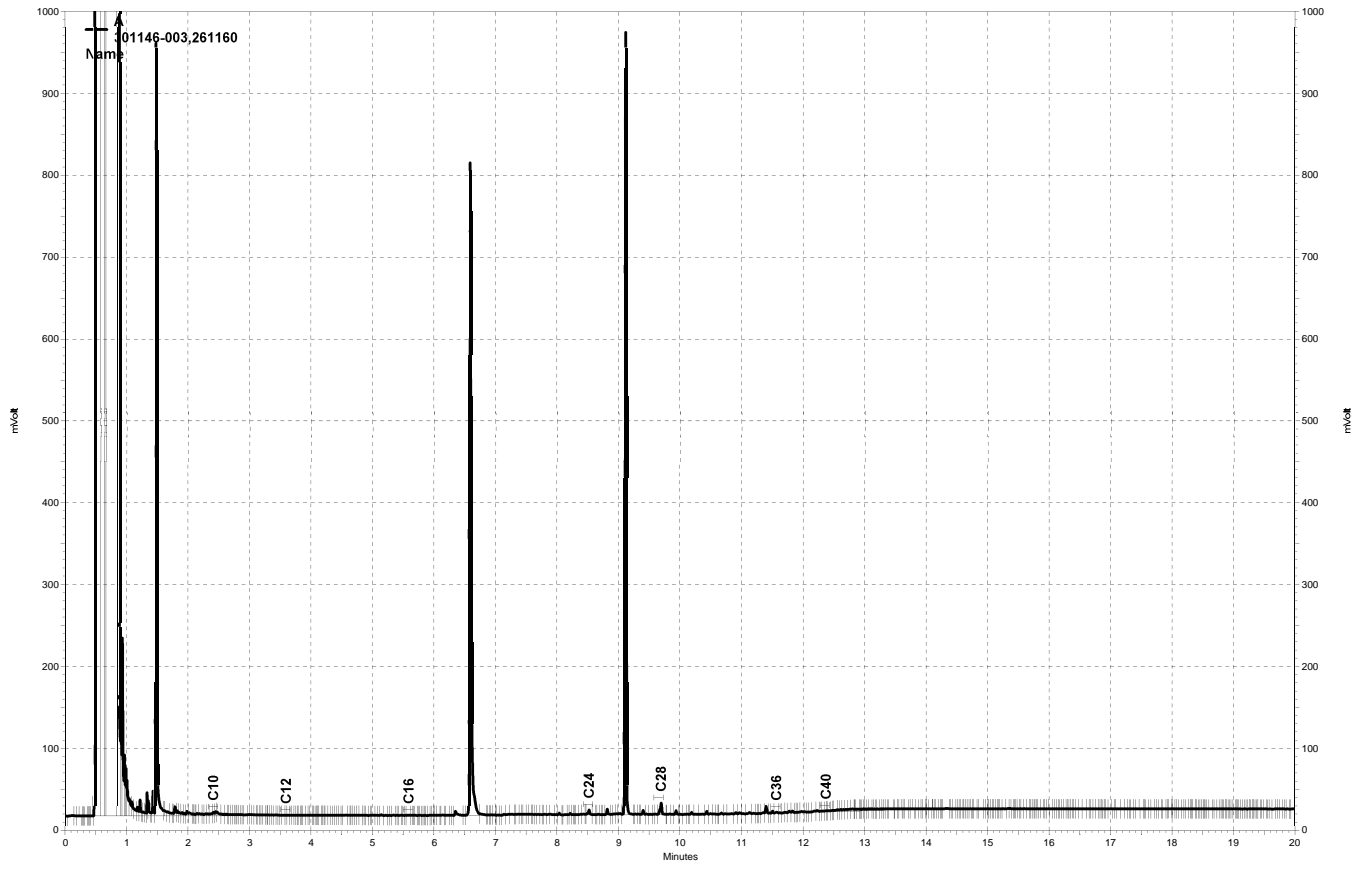
Surrogate	%REC	Limits
o-Terphenyl	112	59-130



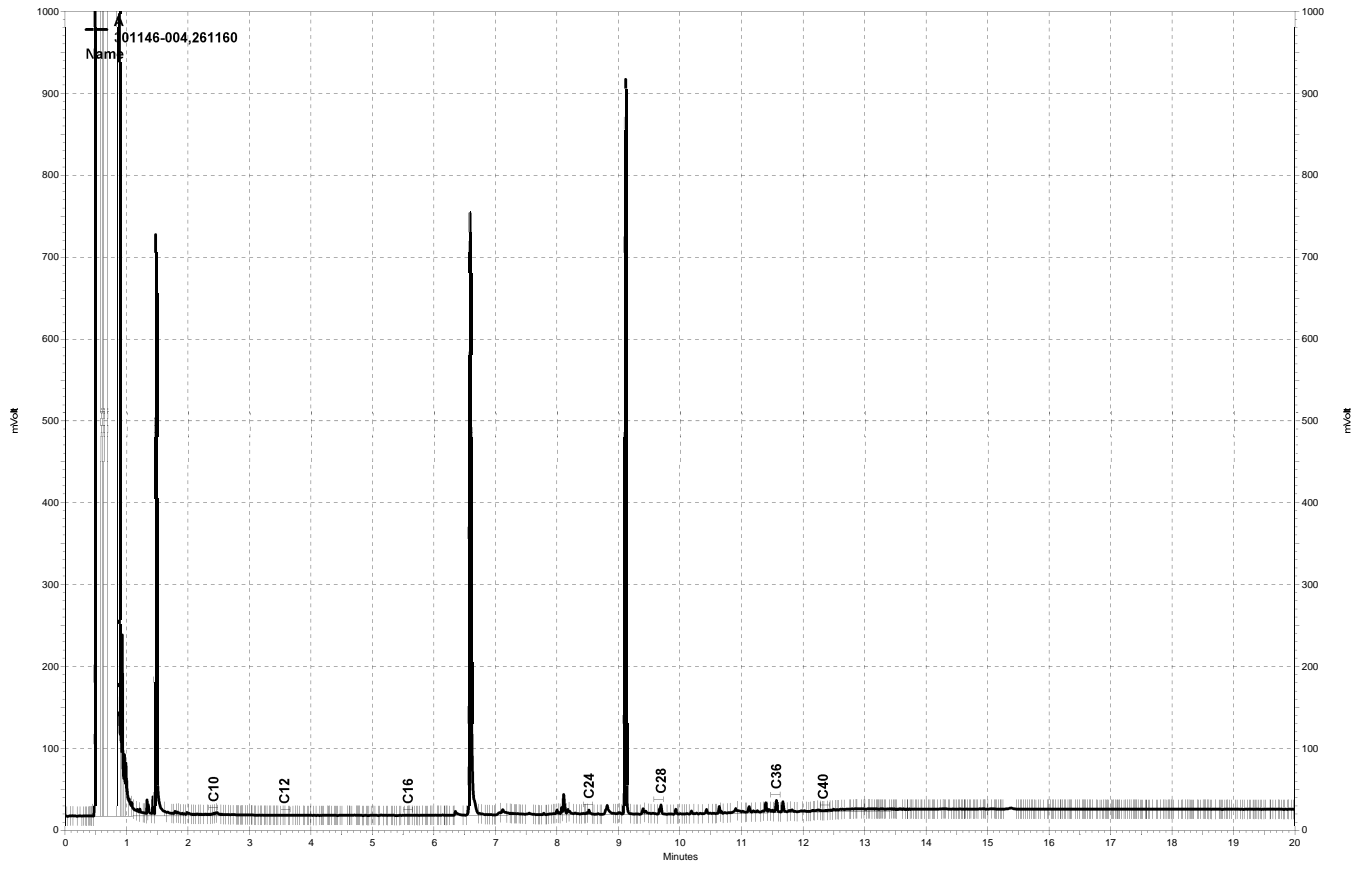
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\186a017, A



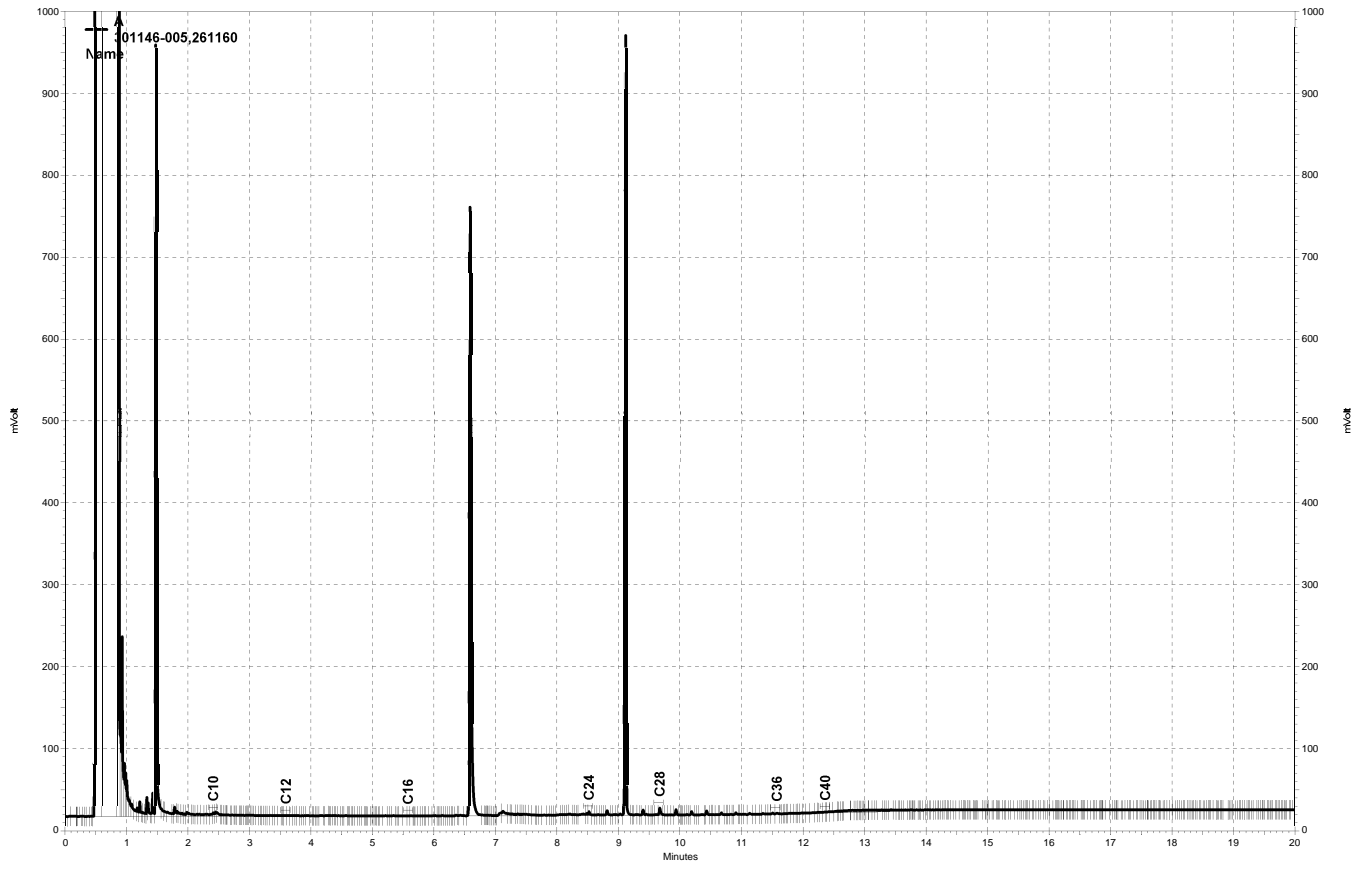
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\186a018, A



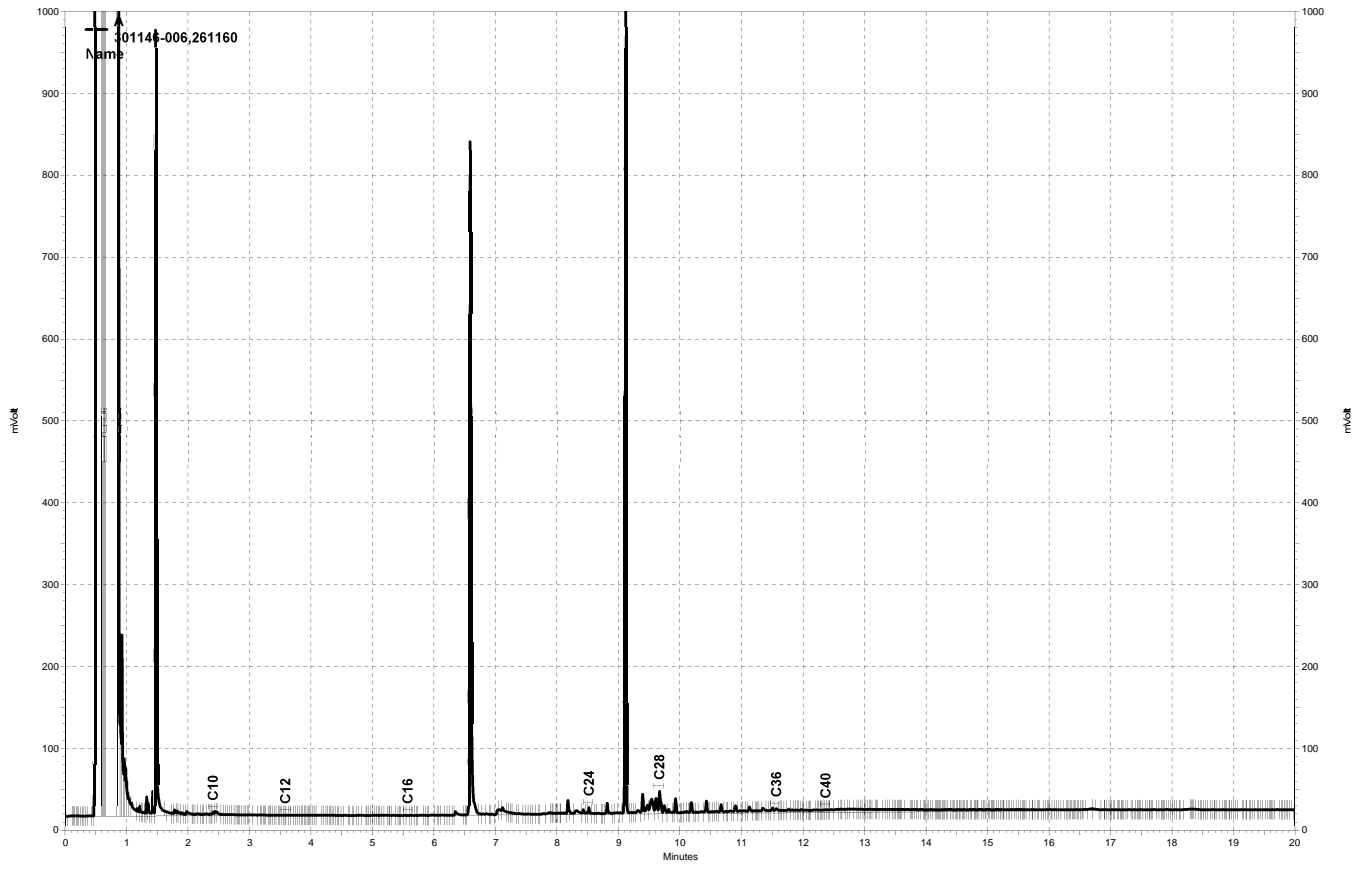
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\186a019, A



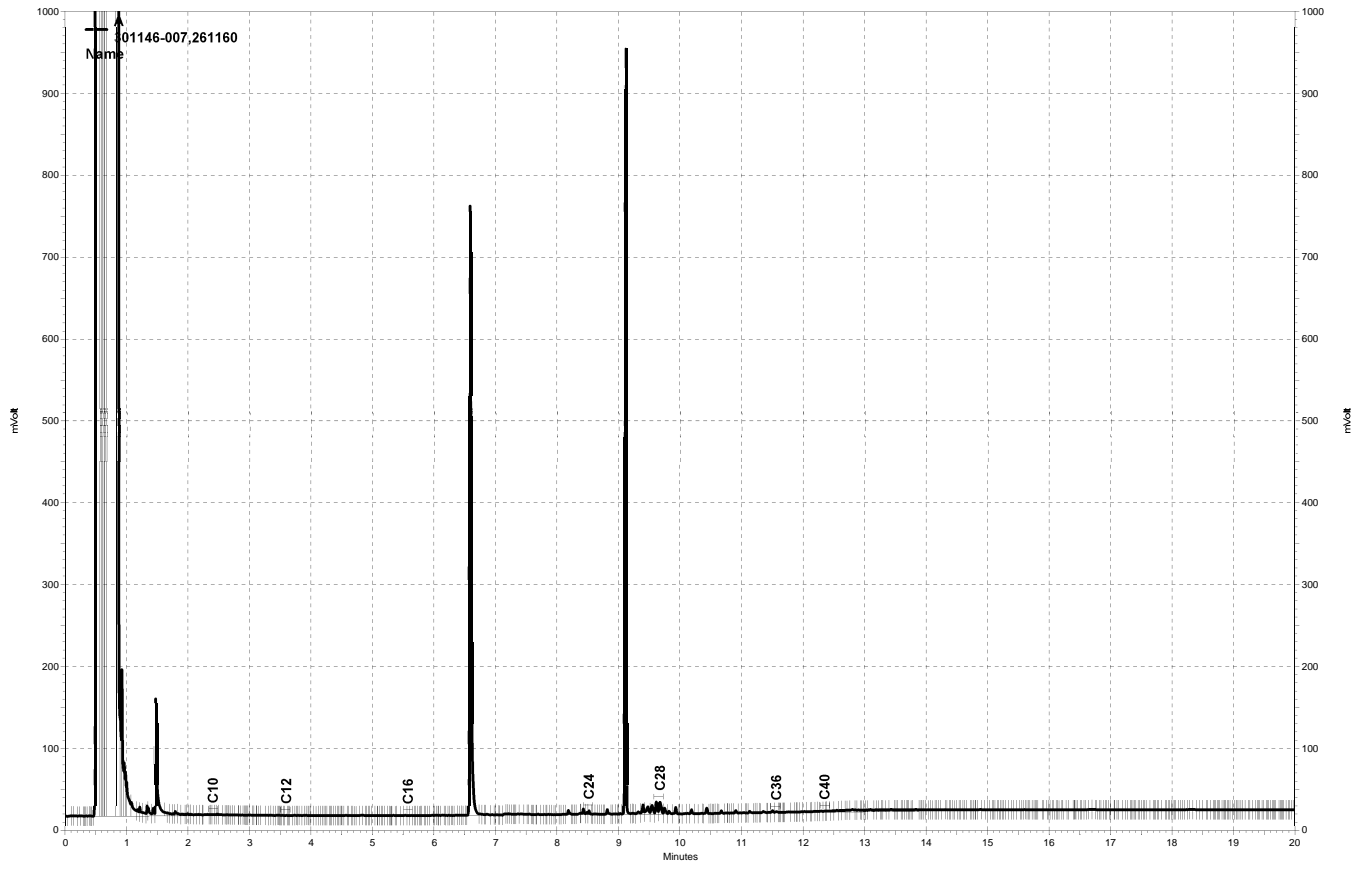
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\186a020, A



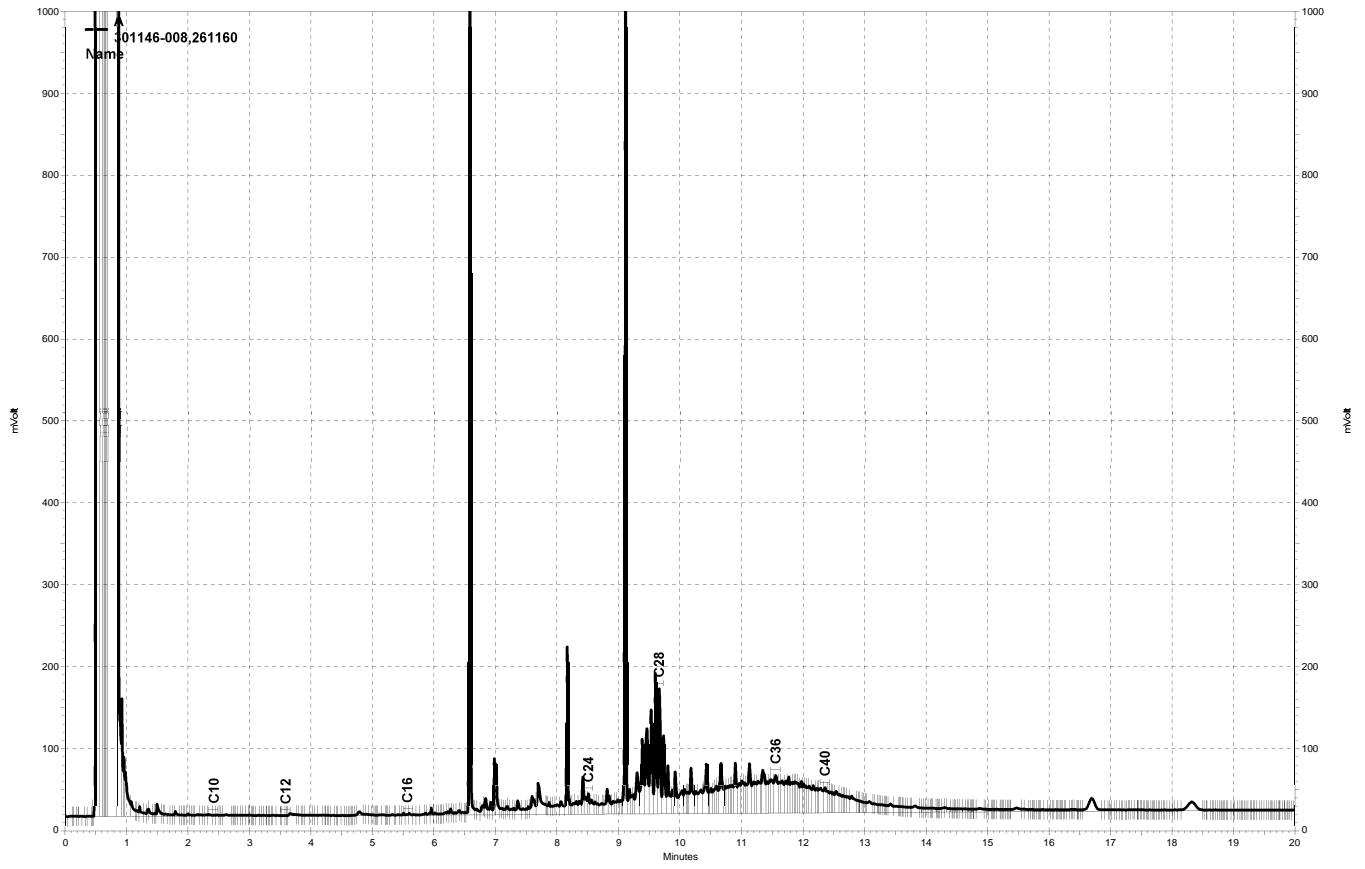
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\186a021, A



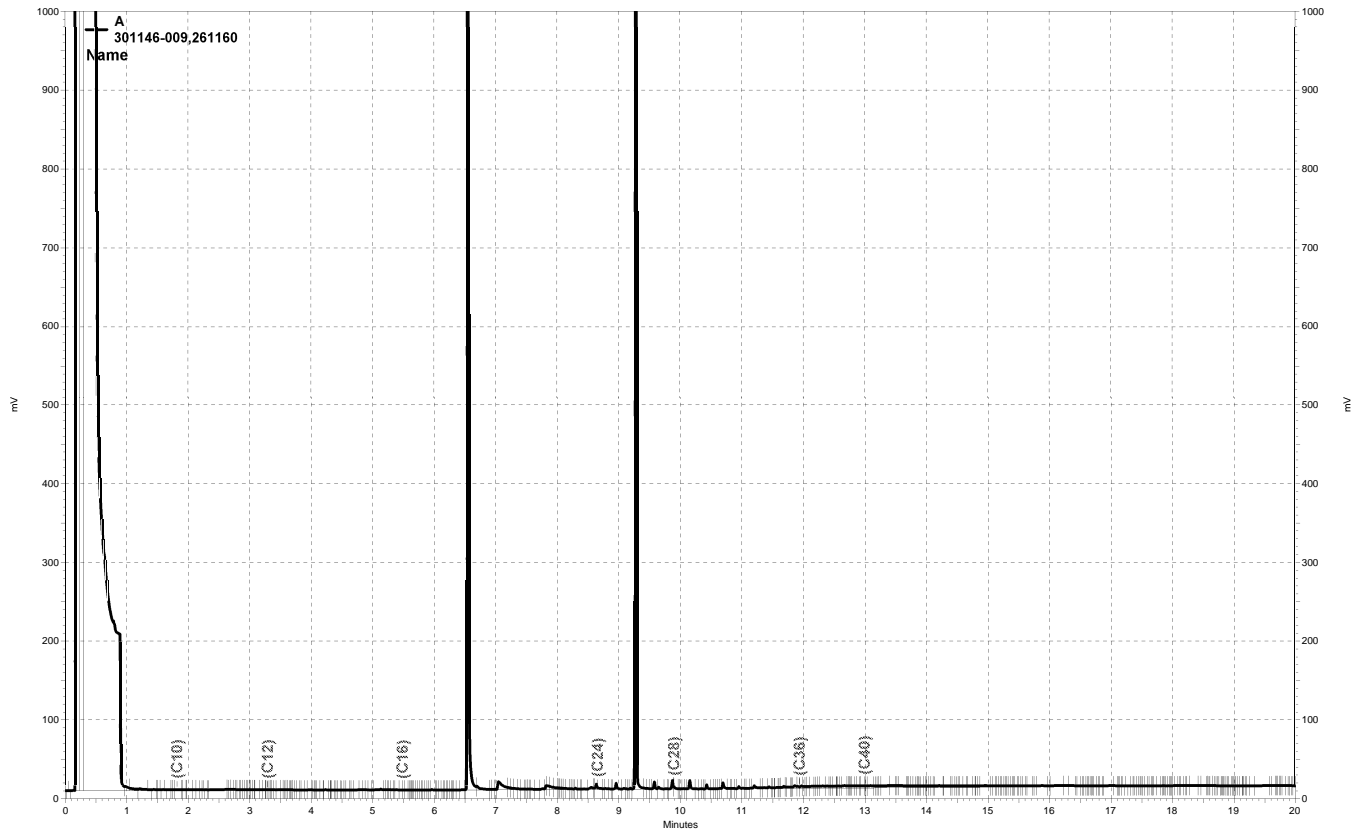
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\186a022, A



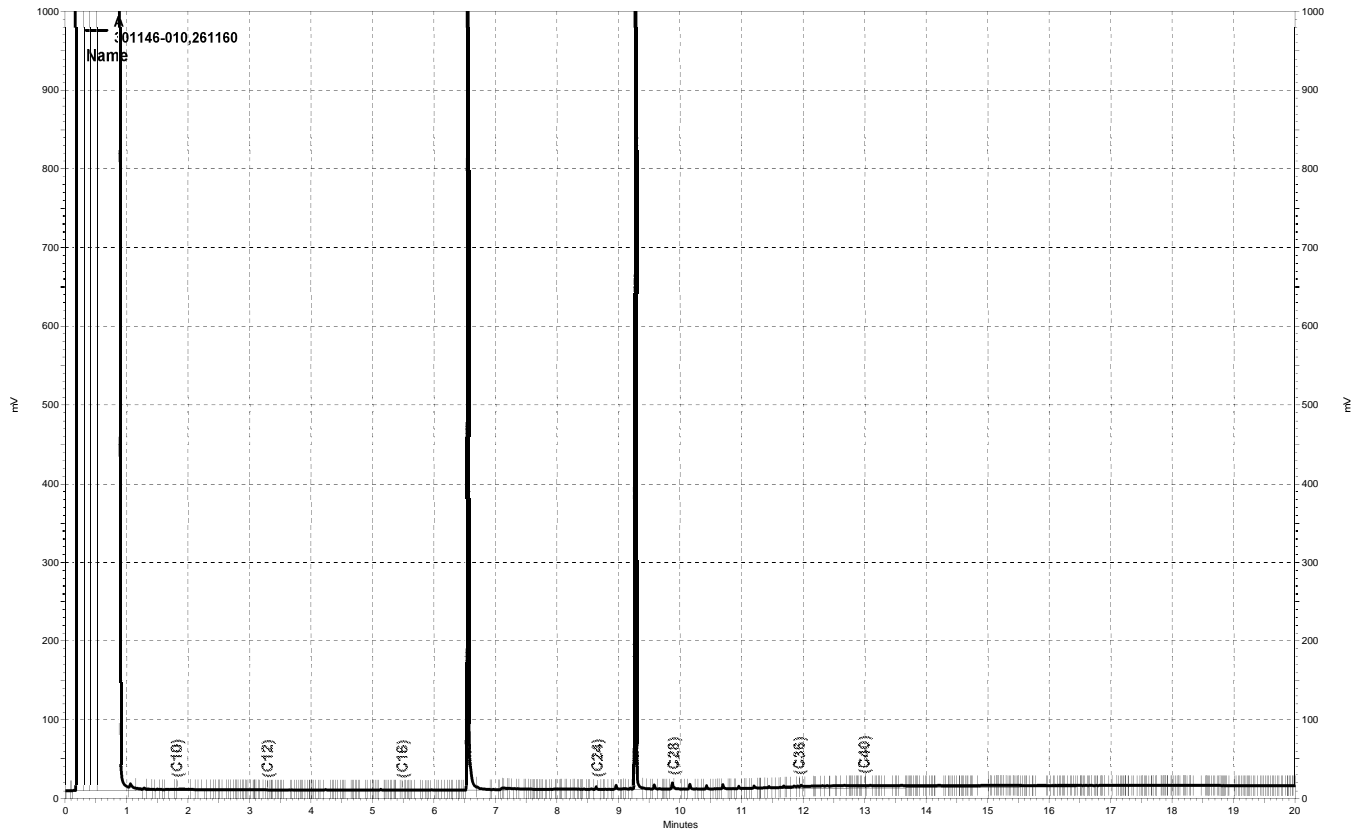
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\186a023, A



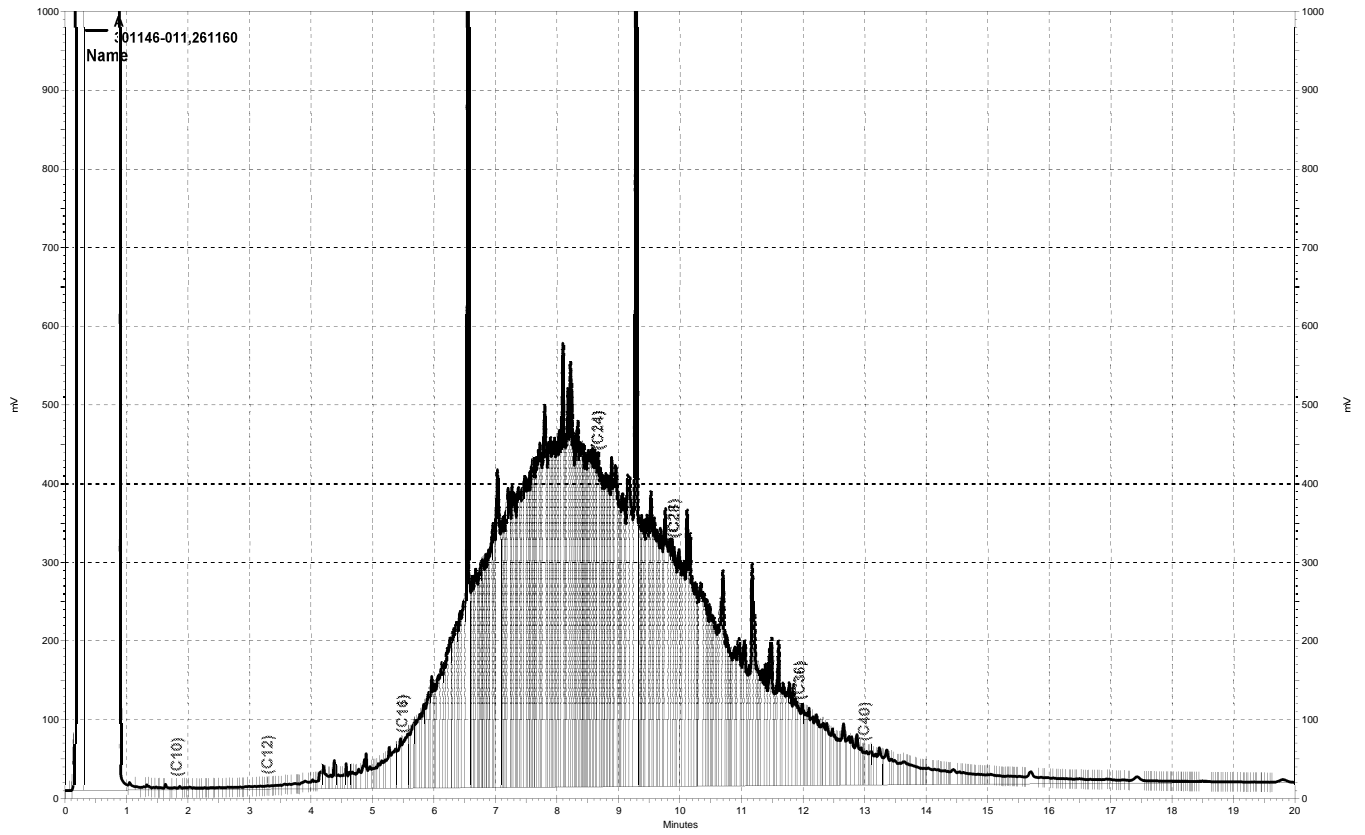
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\186a024, A



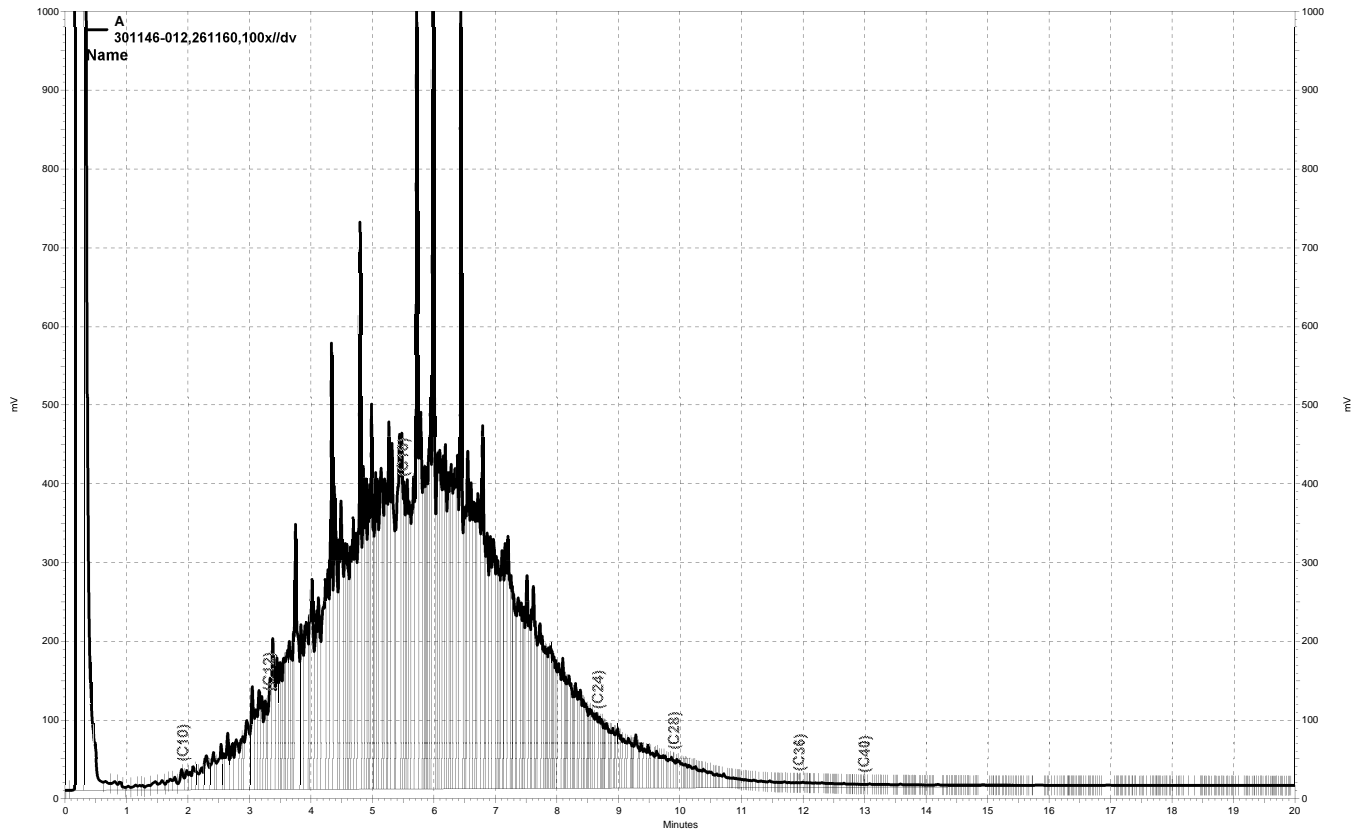
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a022, A



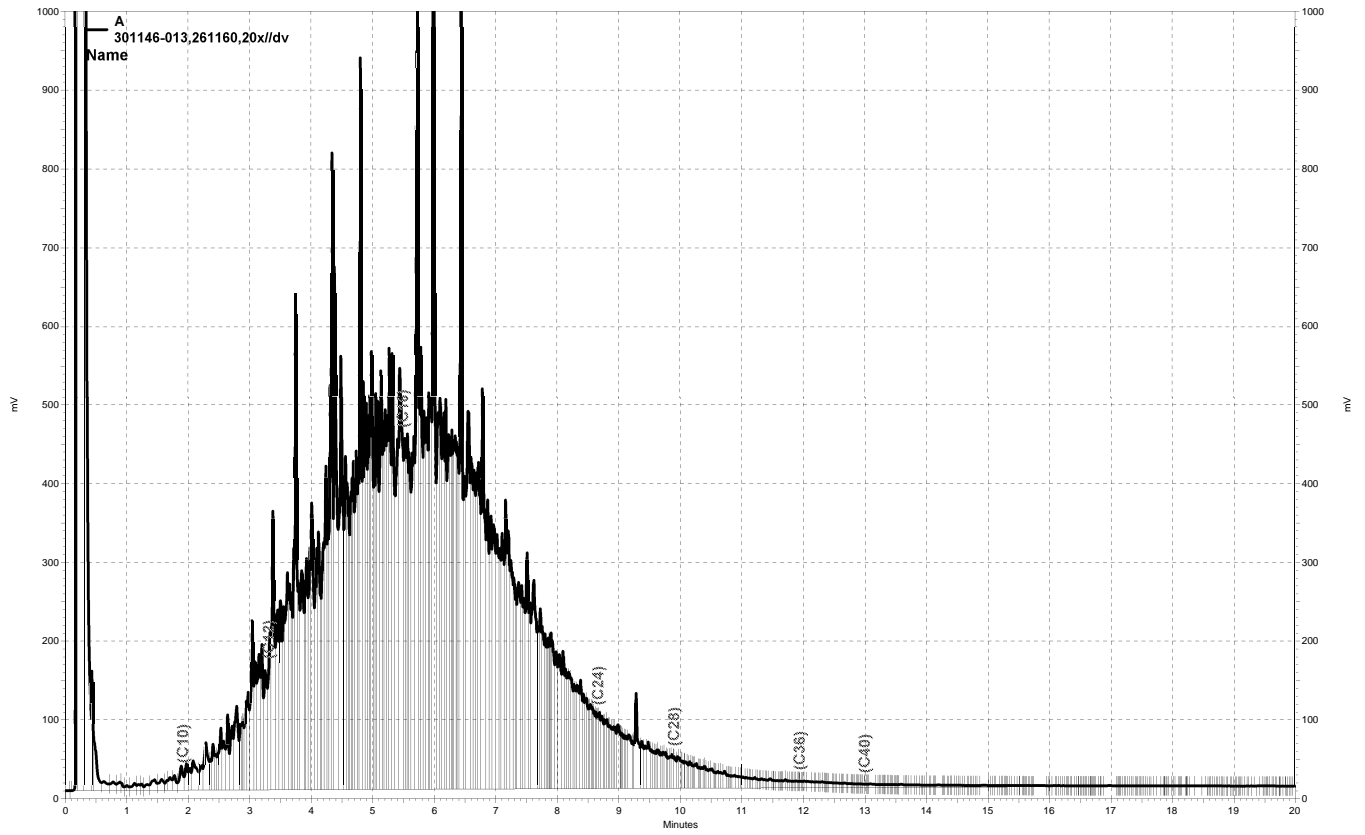
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a023, A



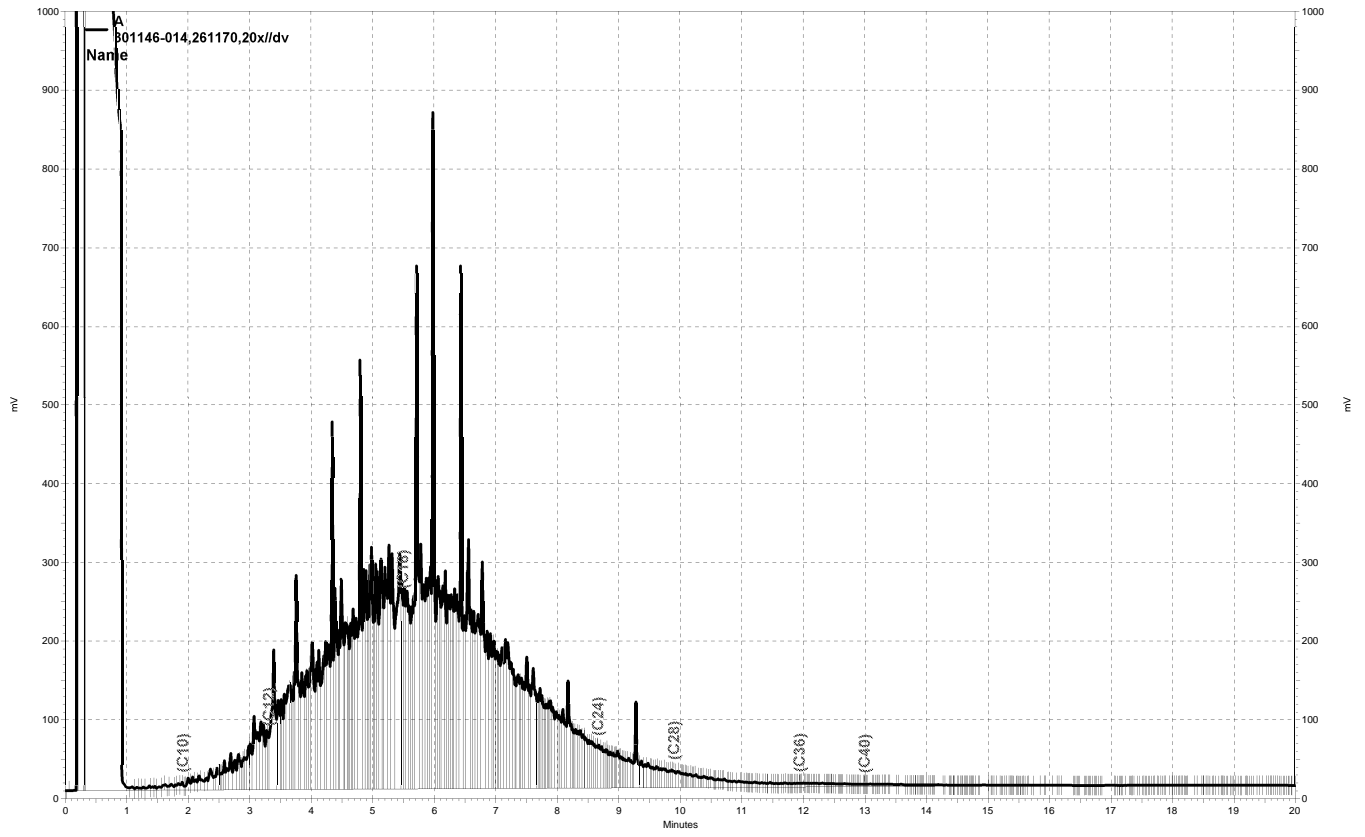
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a024, A



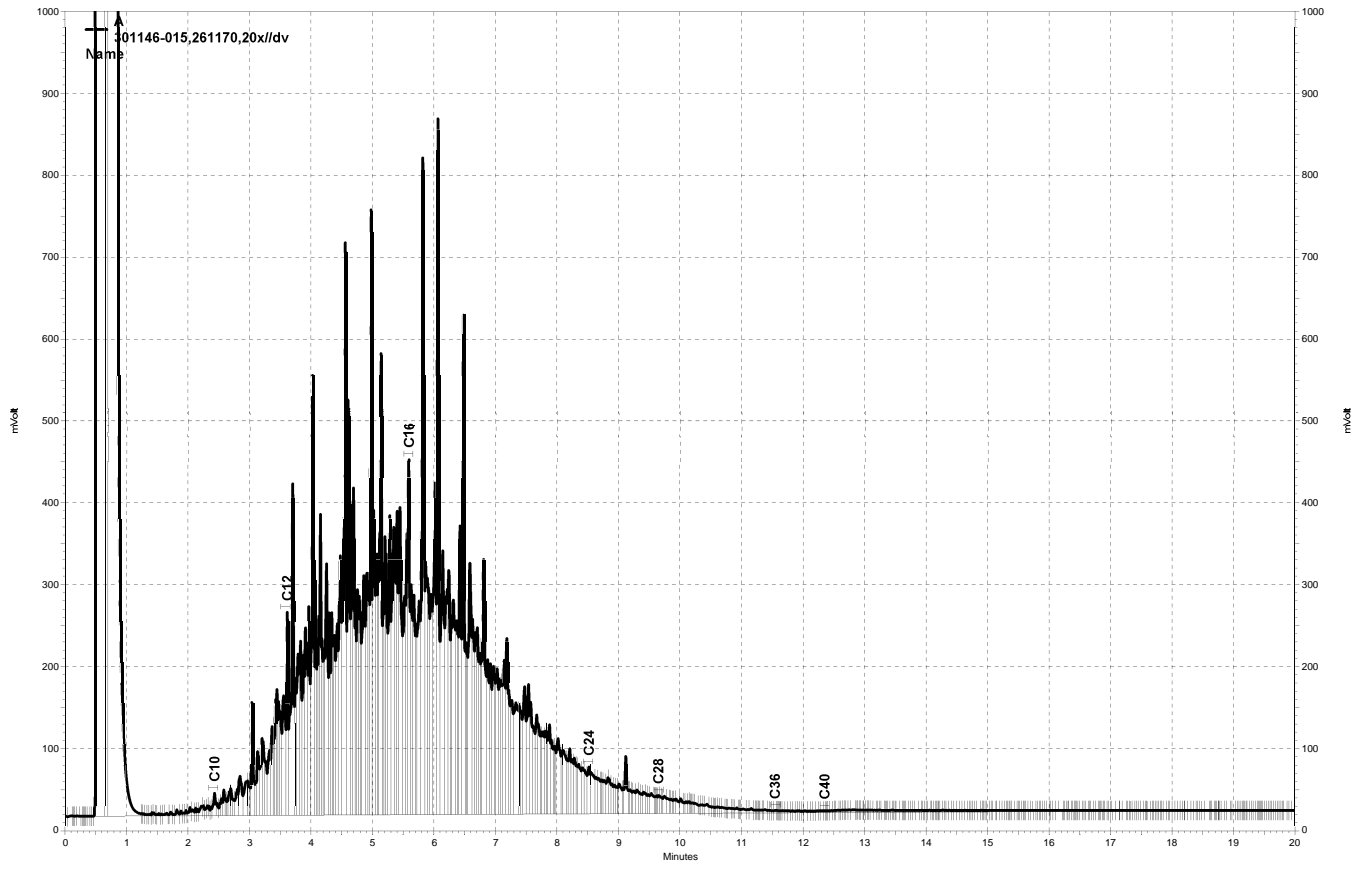
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a027, A



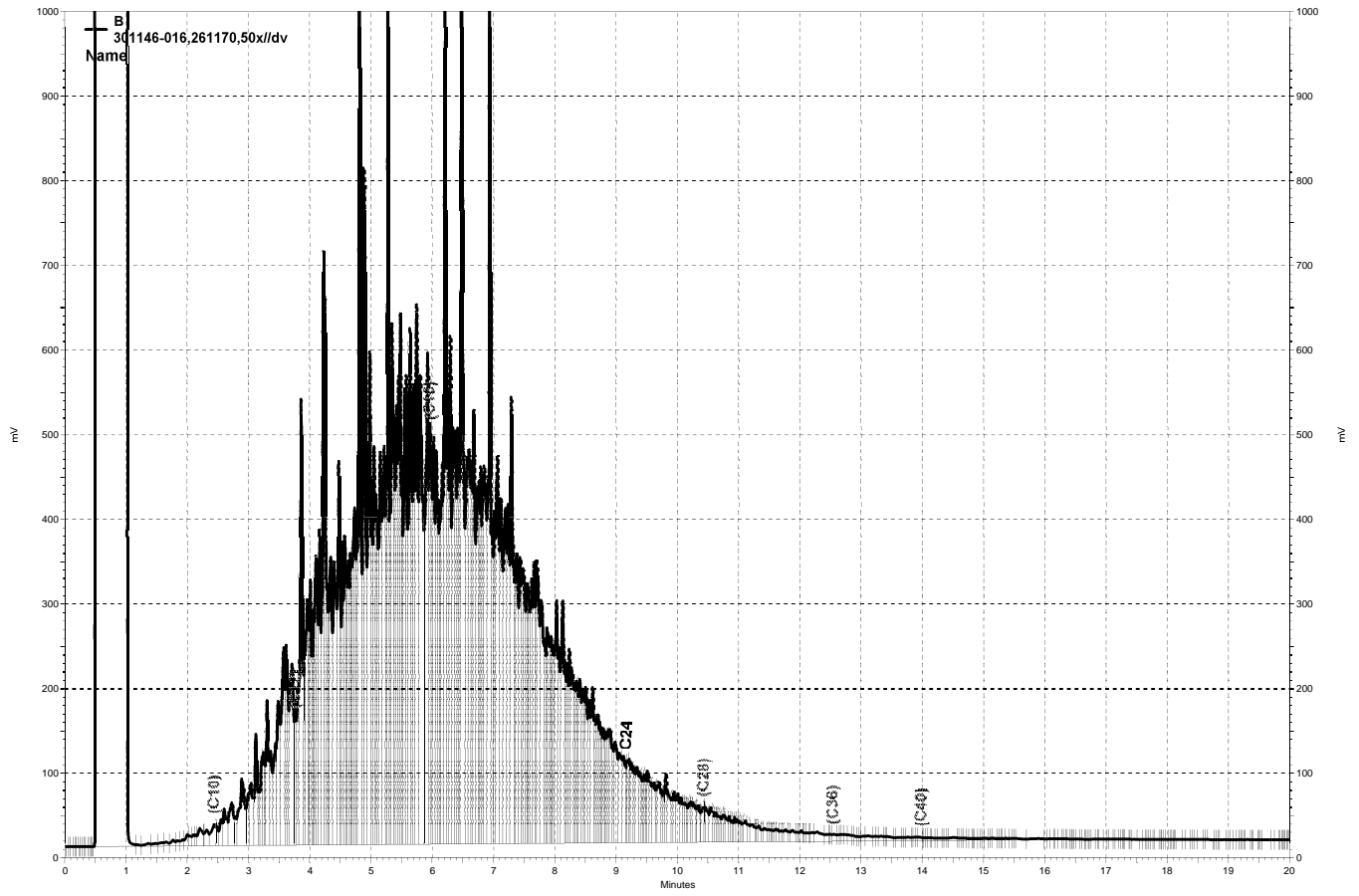
— \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a028, A



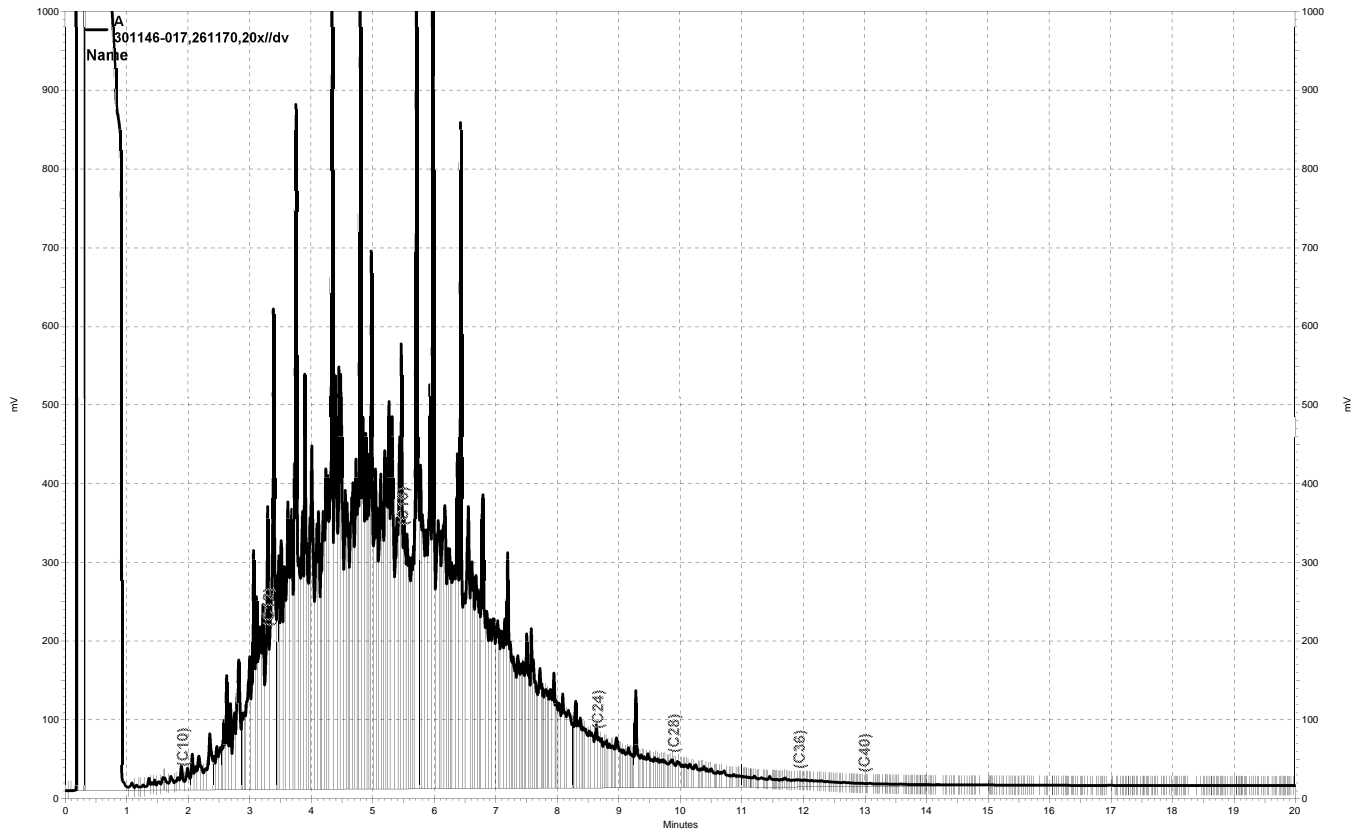
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a023, A



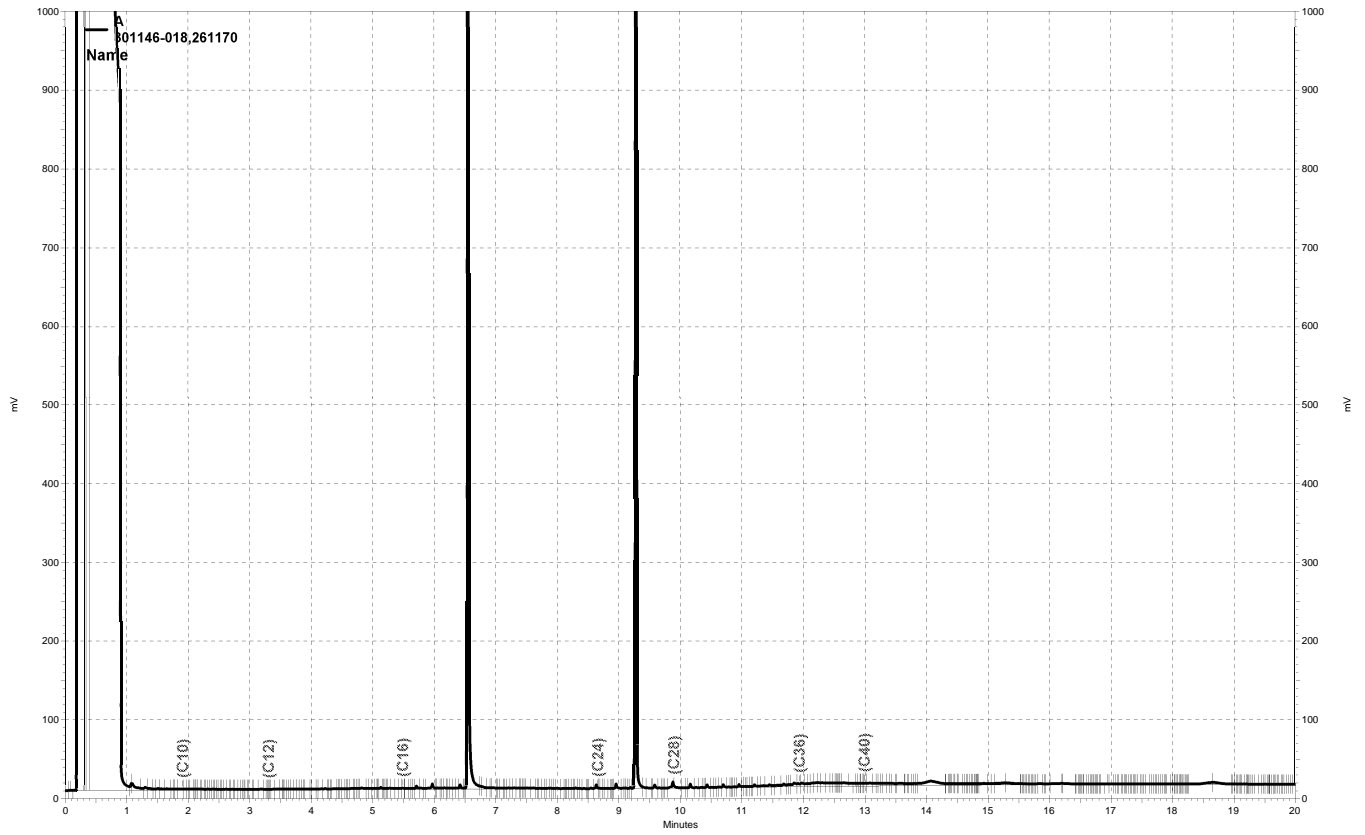
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\187a016, A



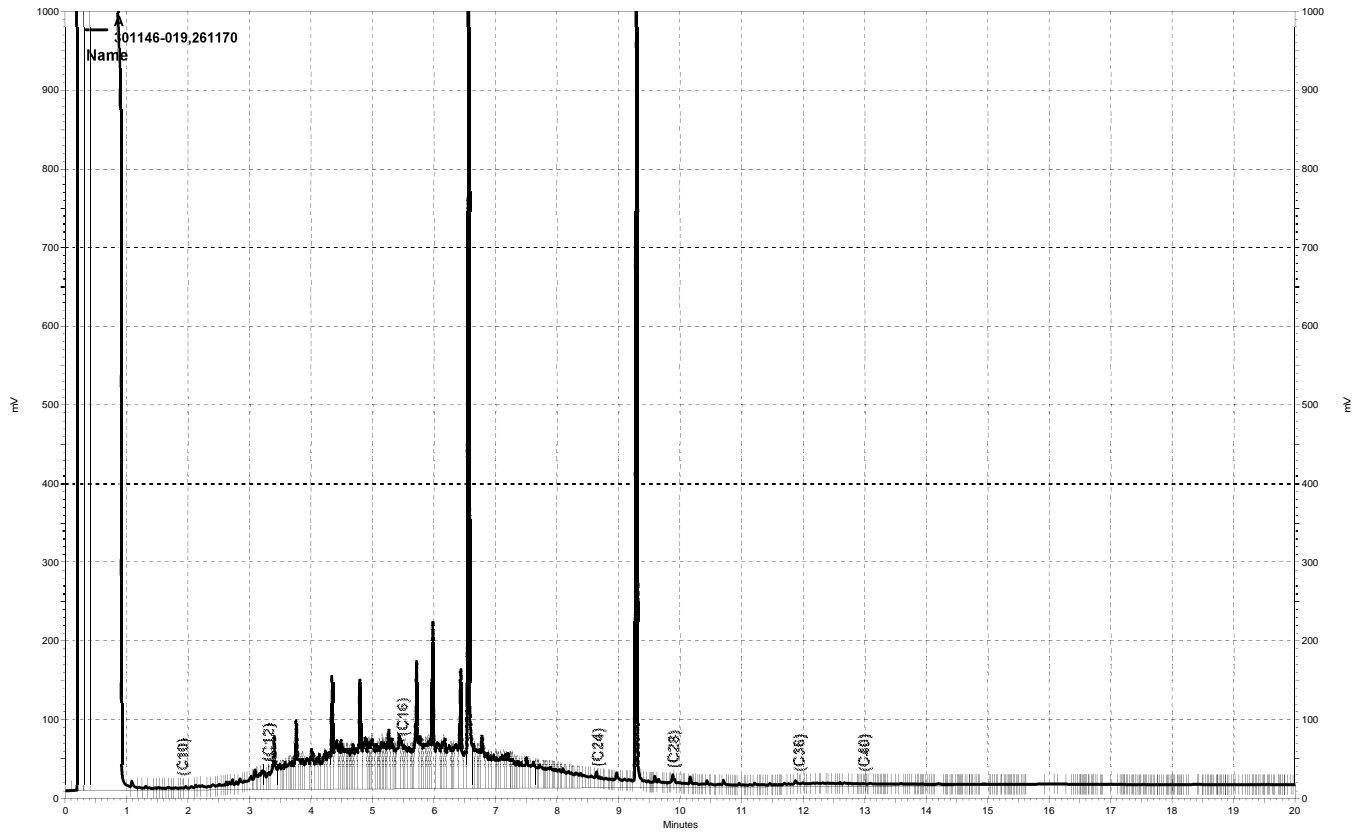
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\187b013, B



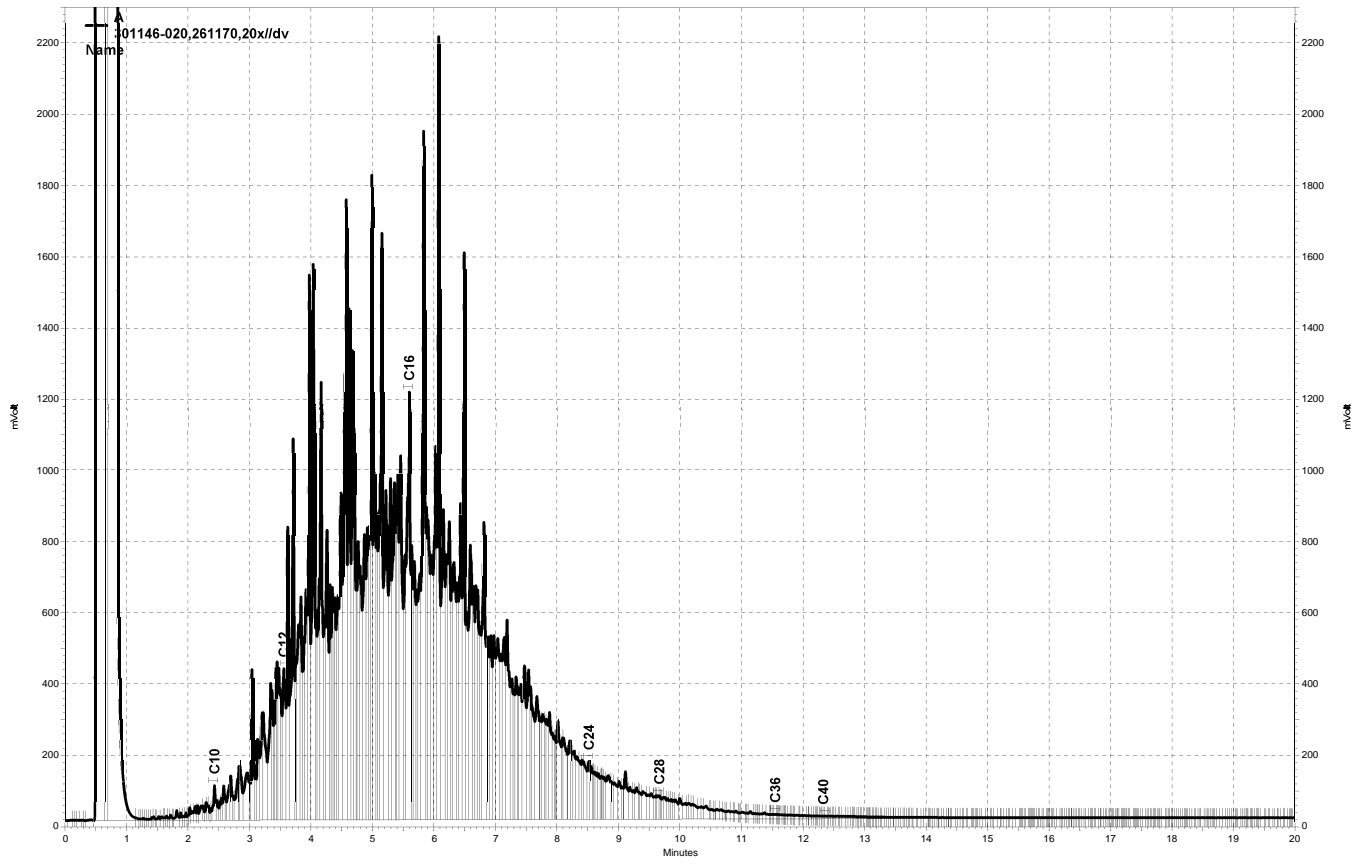
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a024, A



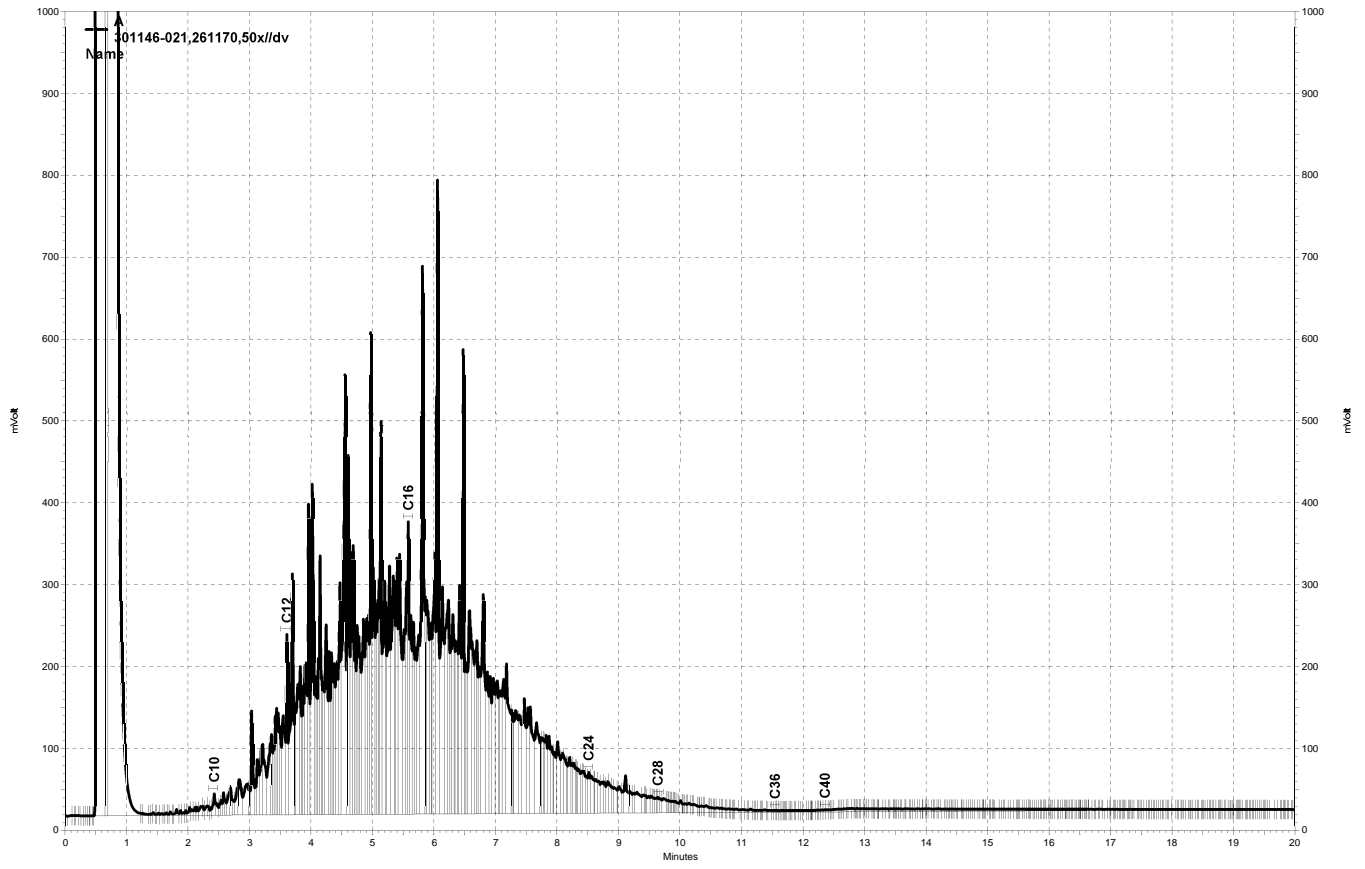
— \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a018, A



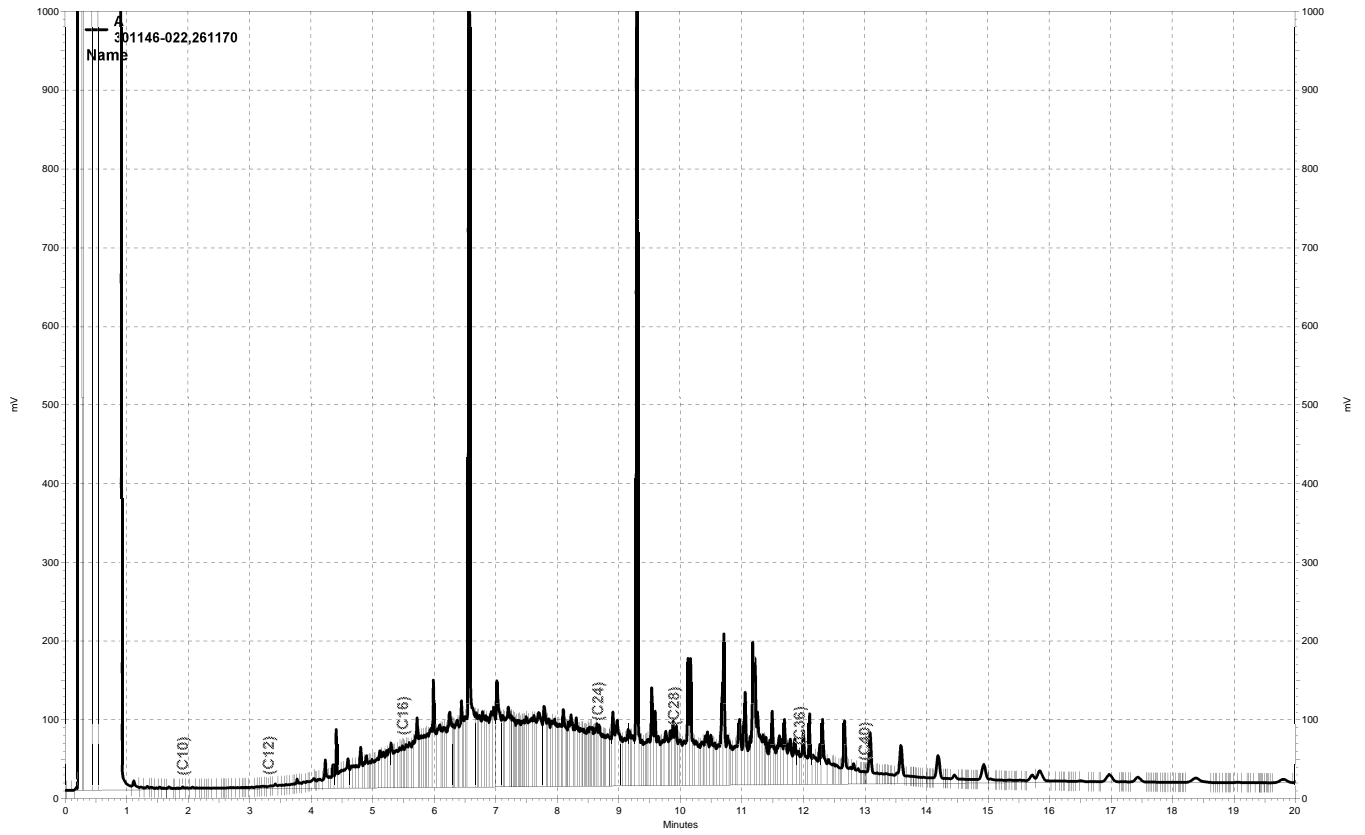
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a019, A



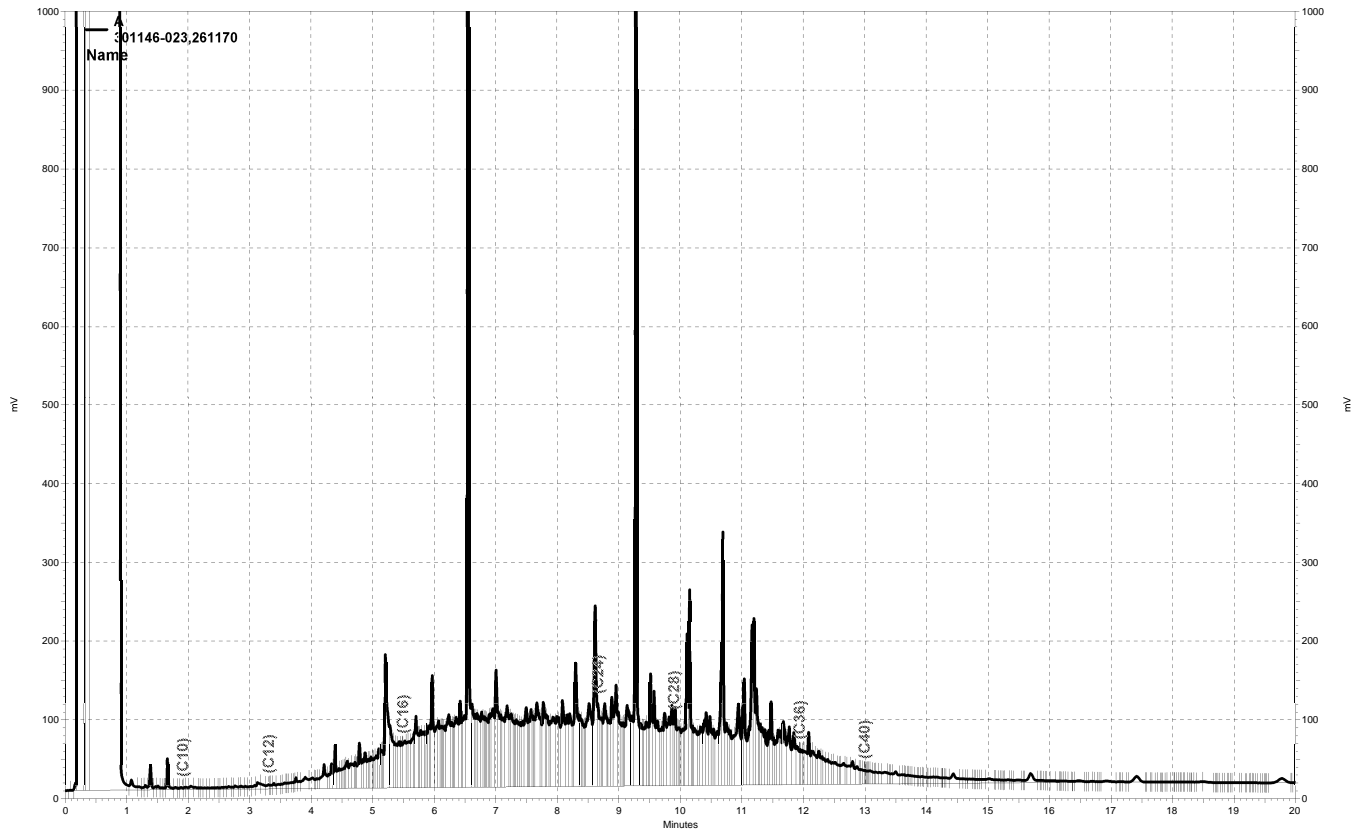
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\187a012, A



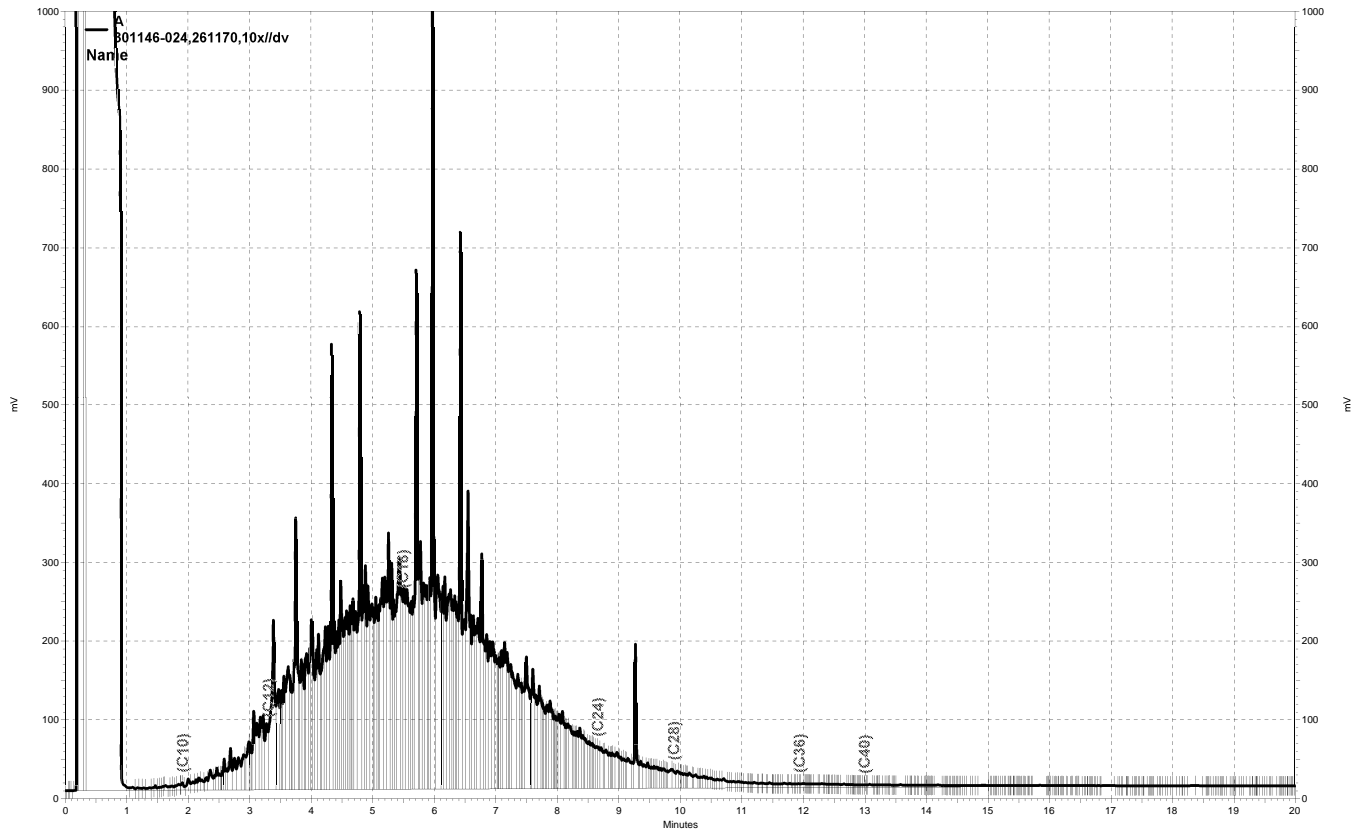
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\187a009, A



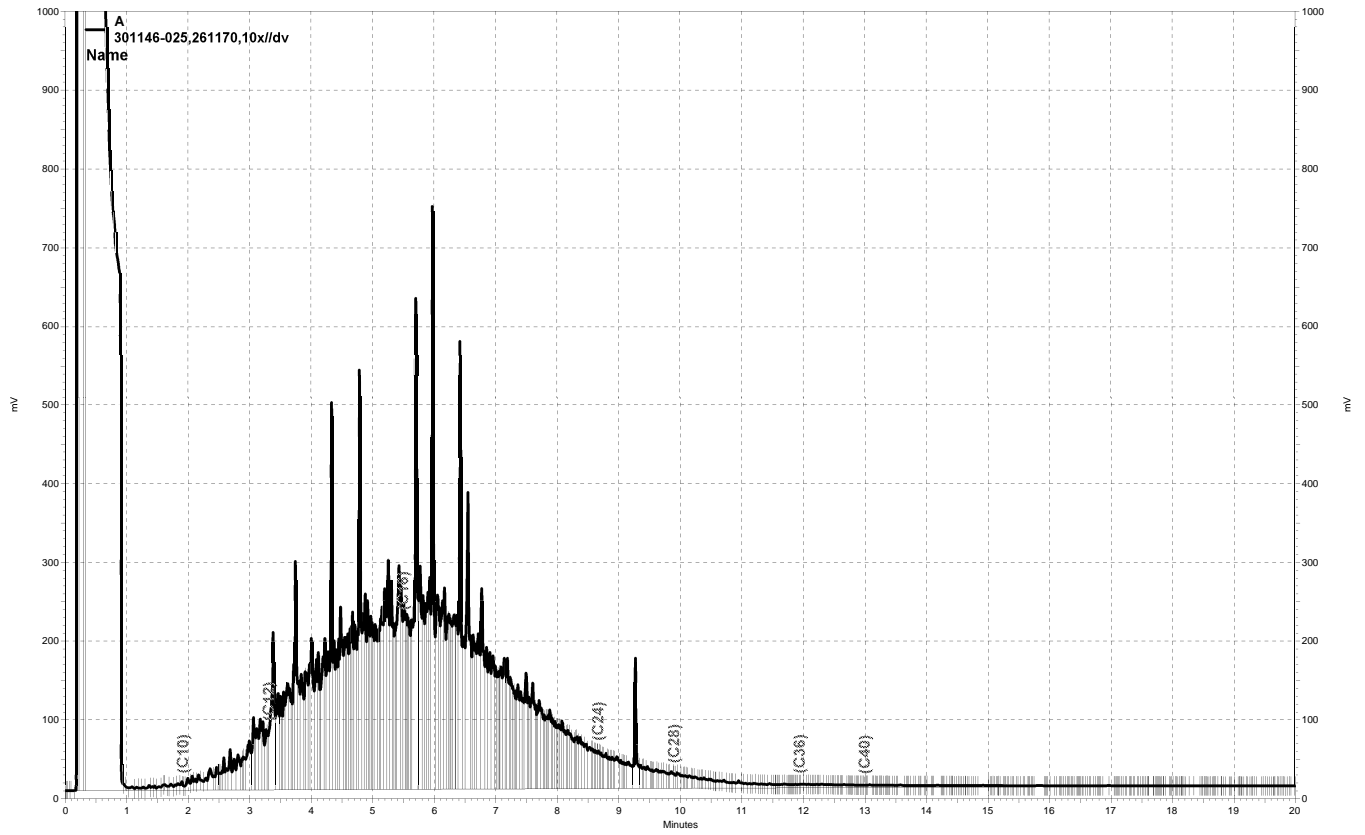
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a014, A



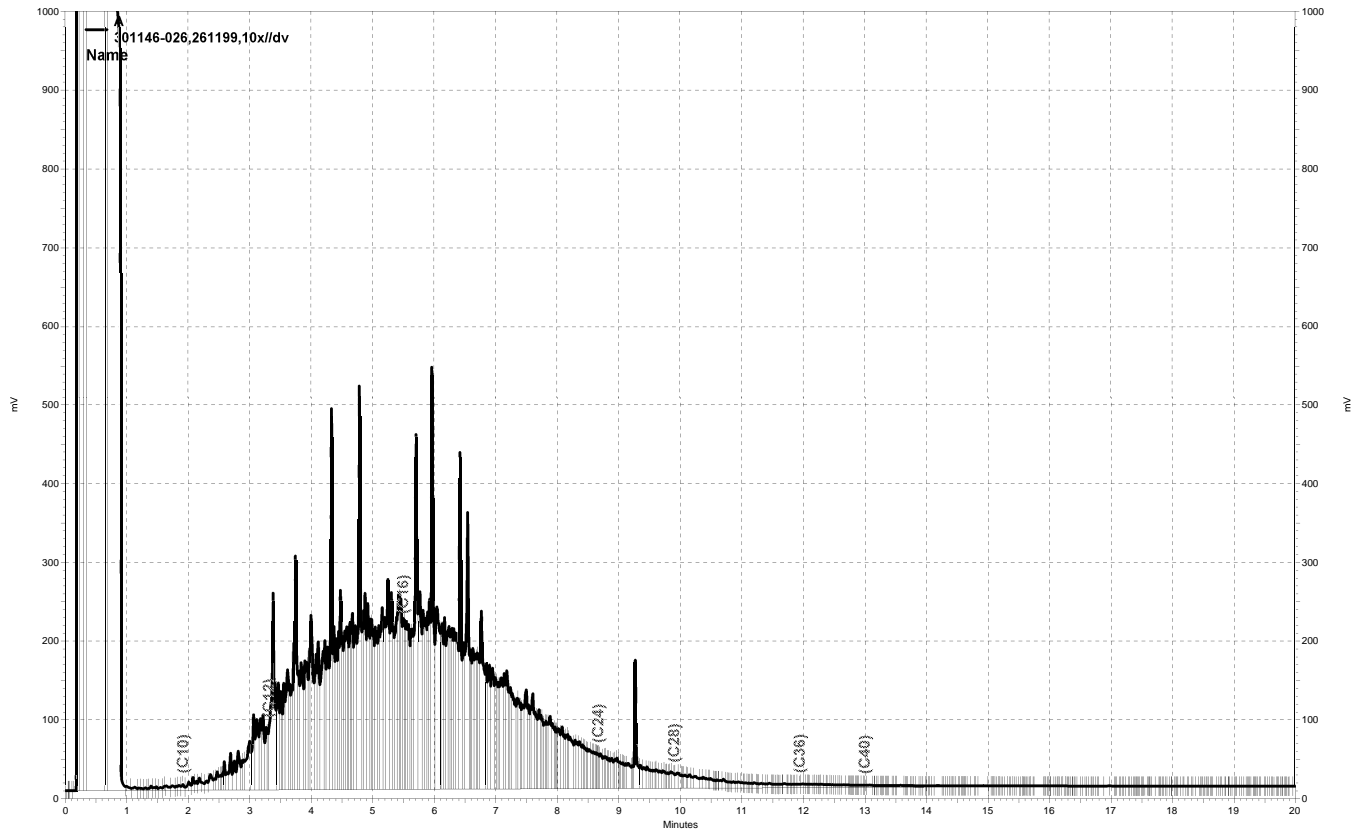
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a017, A



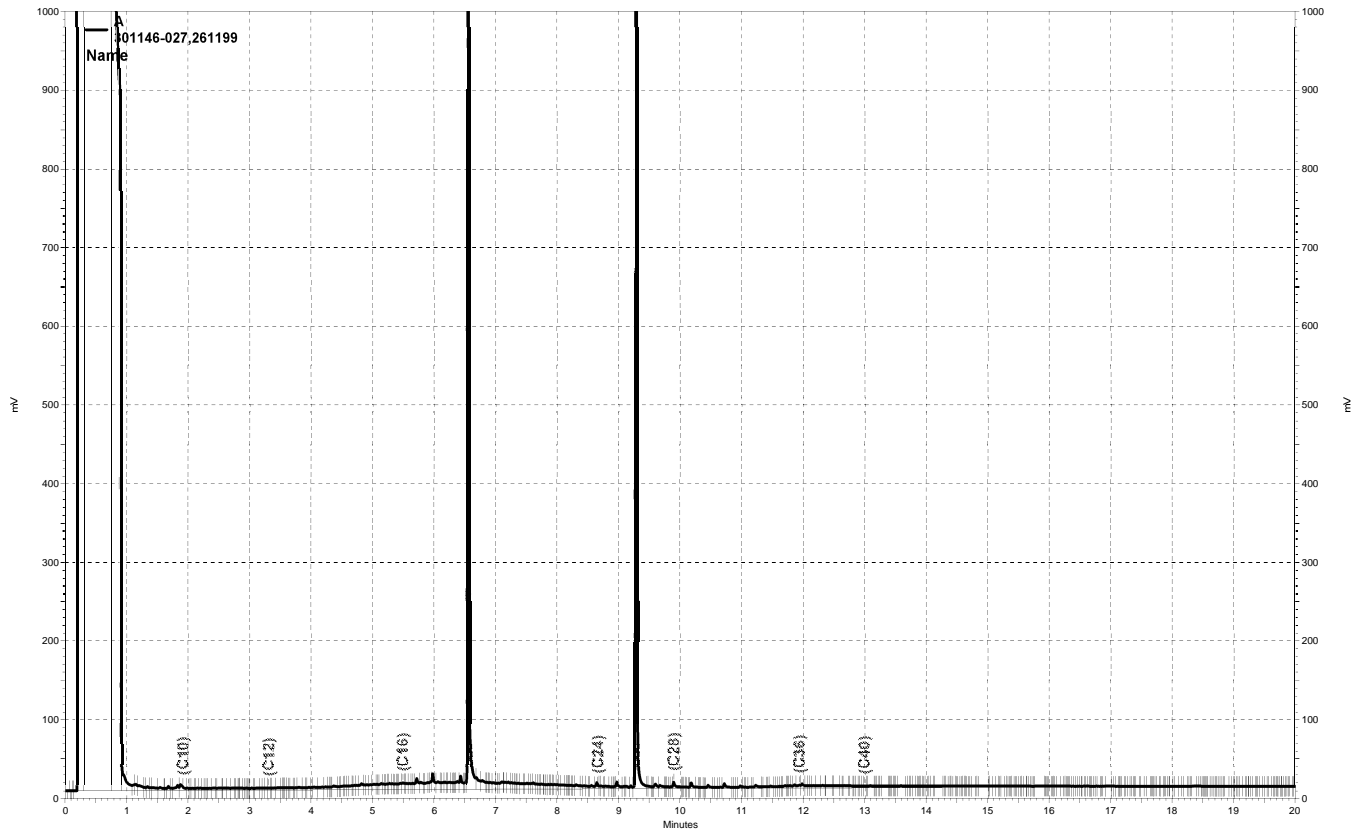
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a025, A



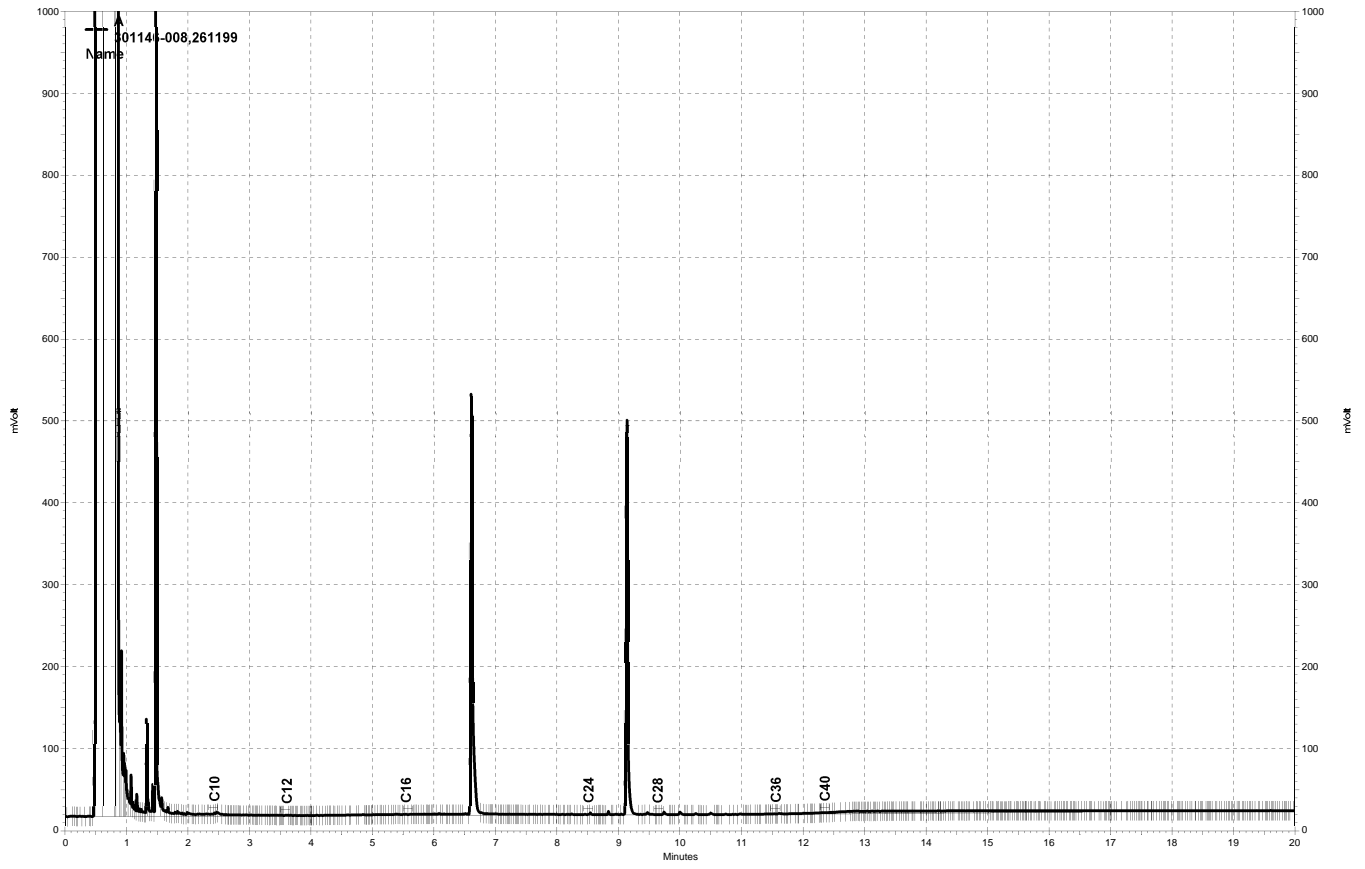
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a026, A



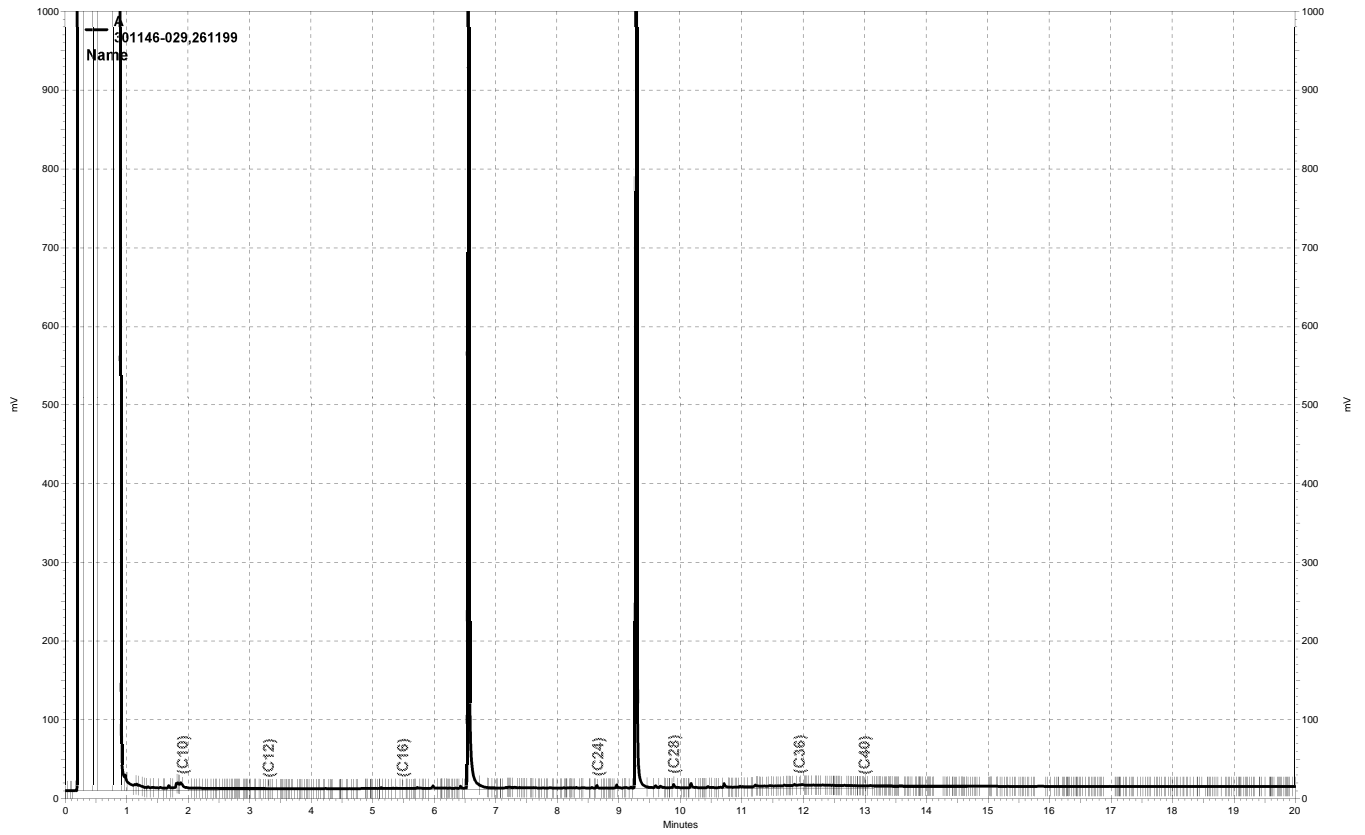
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a029, A



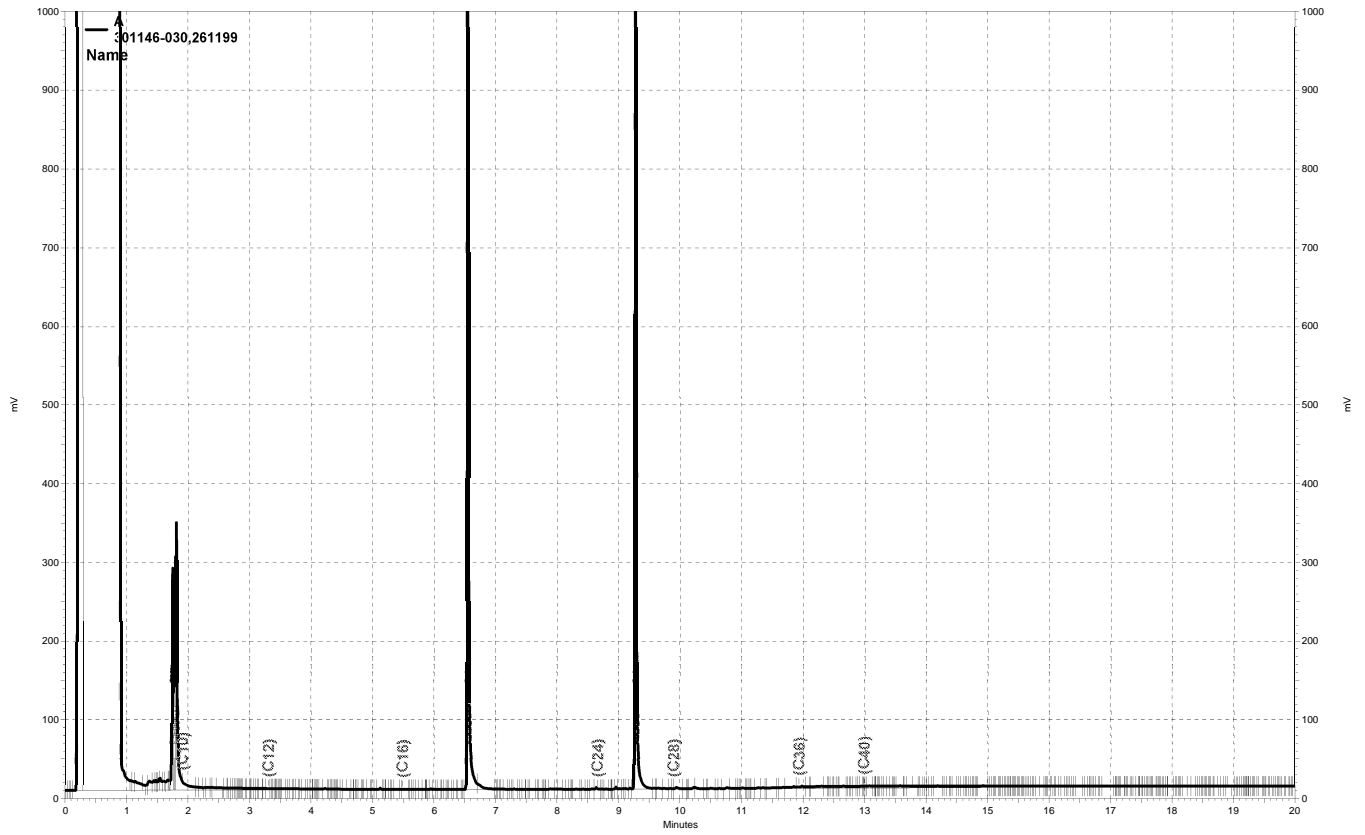
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a031, A



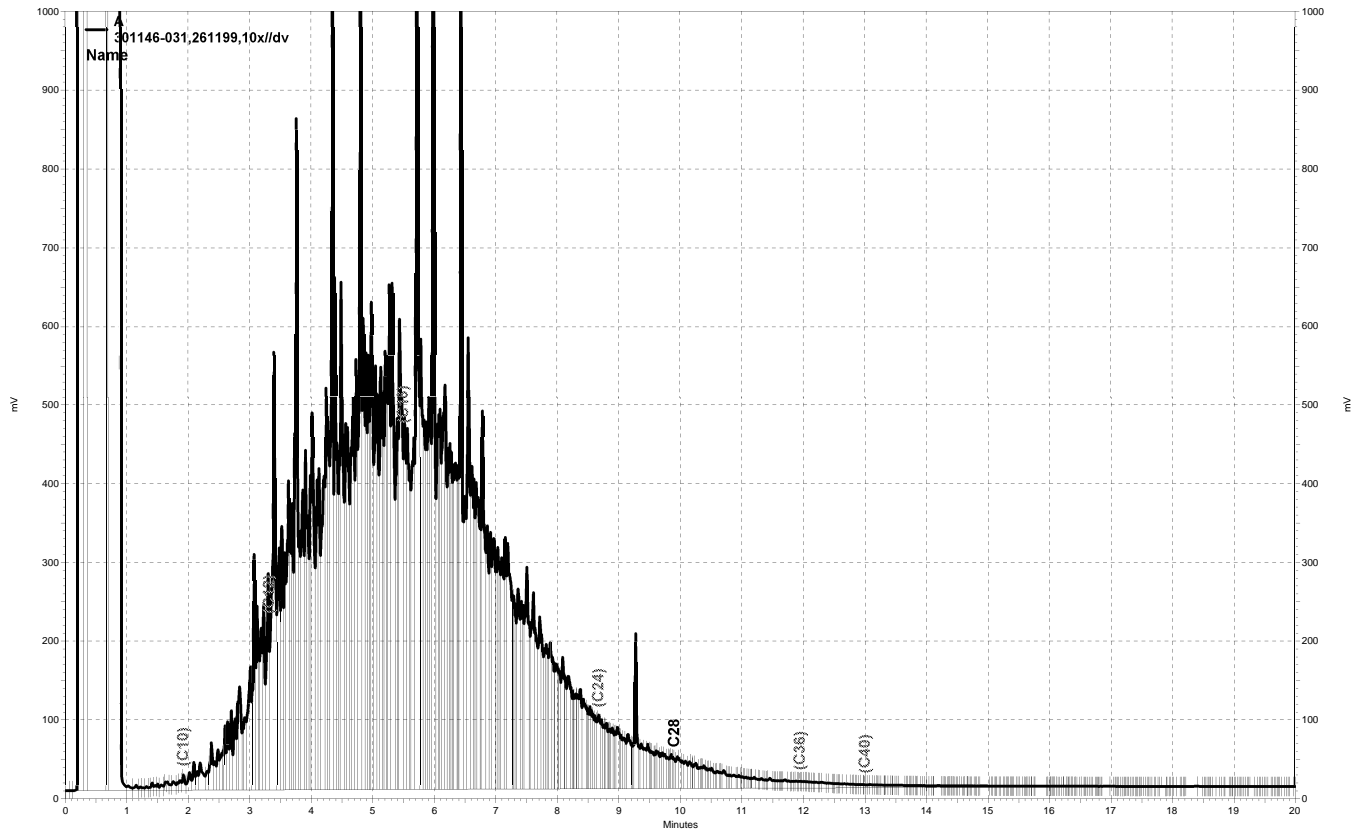
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\187a022, A



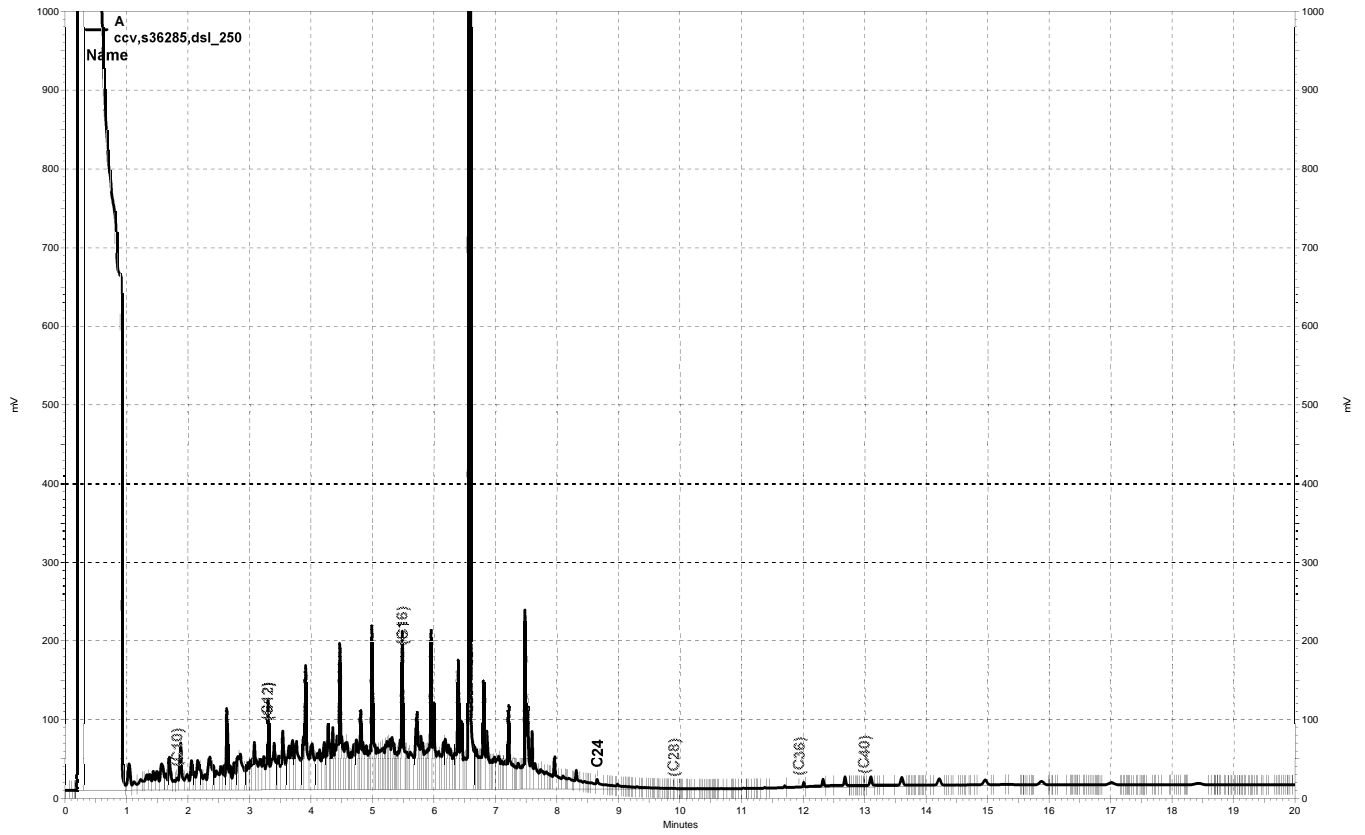
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a032, A



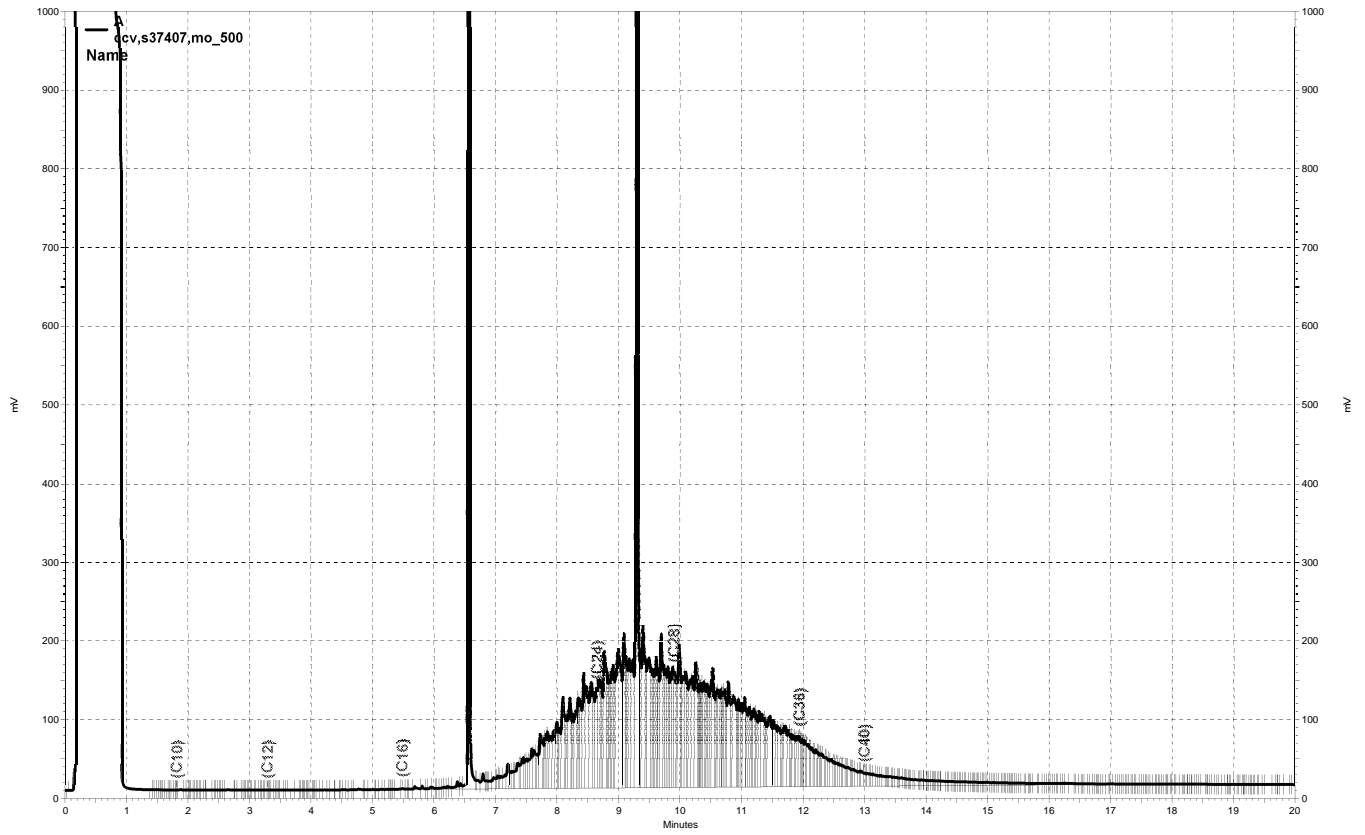
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a033, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a034, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a019, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\186a020, A

Initial & Continuing Calibration Data

ENTHALPY INITIAL CALIBRATION FOR 301146 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301146 GCSV Soil
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

ENTHALPY INITIAL CALIBRATION FOR 301146 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301146 GCSV Soil: EPA 8015B

Inst : GC14B
 Calnum : 228263897001
 Units : mg/L

Name : HEXOTP_183
 Date : 03-JUL-2018 00:37
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	183_033	228263897033	HEX OTP_2.5	03-JUL-2018 00:37	S36499 (2X)
L2	183_034	228263897034	HEX OTP_5	03-JUL-2018 01:06	S36499
L3	183_035	228263897035	HEX OTP_10	03-JUL-2018 01:34	S36500
L4	183_036	228263897036	HEX OTP_25	03-JUL-2018 02:03	S36501
L5	183_037	228263897037	HEX OTP_50	03-JUL-2018 02:31	S36502
L6	183_038	228263897038	HEX OTP_100	03-JUL-2018 03:00	S36503

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	56266	54969	58095	56045	53979	52579	AVRG		1.81E-5		55322	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	2	5.0000	-1	10.000	5	25.000	1	50.000	-2	100.00	-5

WA1 07/03/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/03/18

Reviewer: TKM

Date: 07/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301146 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178265382004
 Units : mg/L

Name : HEXOTP_184
 Date : 03-JUL-2018 19:03
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a015	178265382015	HEXOTP_2.5	03-JUL-2018 19:03	S36499 (2X)
L2	184a016	178265382016	HEXOTP_5	03-JUL-2018 19:31	S36499
L3	184a017	178265382017	HEXOTP_10	03-JUL-2018 19:58	S36500
L4	184a018	178265382018	HEXOTP_25	03-JUL-2018 20:26	S36501
L5	184a019	178265382019	HEXOTP_50	03-JUL-2018 20:53	S36502
L6	184a020	178265382020	HEXOTP_100	03-JUL-2018 21:21	S36503

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	71270	76293	79399	80459	79467	78365	AVRG		1.29E-5		77542	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	-8	5.0000	-2	10.000	2	25.000	4	50.000	2	100.00	1

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301146 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178265382002
 Units : mg/L

Name : DSL_184
 Date : 03-JUL-2018 22:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a022	178265382022	DSL_10	03-JUL-2018 22:17	S36610
L2	184a023	178265382023	DSL_100	03-JUL-2018 22:45	S36611
L3	184a024	178265382024	DSL_500	03-JUL-2018 23:13	S36613
L4	184a025	178265382025	DSL_1000	03-JUL-2018 23:40	S36615
L5	184a026	178265382026	DSL_5000	04-JUL-2018 00:08	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	60168	65483	66739	66422	64707	AVRG		1.55E-5		64704	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-7	100.00	1	500.00	3	1000.0	3	5000.0	0

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301146 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178265382002

Name : DSL_184
Cal Date : 03-JUL-2018

ICV 178265382028 (184a028 04-JUL-2018) stds: S35844

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	460.5	mg/L	-8	15	

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

ENTHALPY INITIAL CALIBRATION FOR 301146 GCSV Soil: EPA 8015B

Inst : GC17A
 Calnum : 178265382003
 Units : mg/L

Name : MO_184
 Date : 04-JUL-2018 02:00
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a030	178265382030	MO_50	04-JUL-2018 02:00	S36946
L2	184a031	178265382031	MO_250	04-JUL-2018 02:28	S36948
L3	184a032	178265382032	MO_500	04-JUL-2018 02:55	S36949
L4	184a033	178265382033	MO_1000	04-JUL-2018 03:23	S36951
L5	184a034	178265382034	MO_2500	04-JUL-2018 03:51	S36926 (2X)
L6	184a035	178265382035	MO_5000	04-JUL-2018 04:19	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	45568	50014	49846	50127	50897	48592	AVRG		2.03E-5		49174	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-7	250.00	2	500.00	1	1000.0	2	2500.0	4	5000.0	-1

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301146 GCSV Soil
EPA 8015B

Inst : GC17A
Calnum : 178265382003

Name : MO_184
Cal Date : 04-JUL-2018

ICV 178265382037 (184a037 04-JUL-2018) stds: S37407

Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	465.5	mg/L	-7	15	

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

ENTHALPY INITIAL CALIBRATION FOR 301146 GCSV Soil: EPA 8015B

Inst : GC26A
 Calnum : 868259571004
 Units : mg/L

Name : HEXOTP_180
 Date : 29-JUN-2018 17:57
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	180a014	868259571014	HEXOTP_2.5	29-JUN-2018 17:57	S36499 (2X)
L2	180a015	868259571015	HEXOTP_5	29-JUN-2018 18:25	S36499
L3	180a016	868259571016	HEXOTP_10	29-JUN-2018 18:53	S36500
L4	180a017	868259571017	HEXOTP_25	29-JUN-2018 19:22	S36501
L5	180a018	868259571018	HEXOTP_50	29-JUN-2018 19:50	S36502
L6	180a019	868259571019	HEXOTP_100	29-JUN-2018 20:18	S36503

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	48638	47321	50806	48438	47800	44929	AVRG		2.08E-5		47989	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	1	5.0000	-1	10.000	6	25.000	1	50.000	0	100.00	-6

WA1 07/03/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 07/03/18

Reviewer: TKM

Date: 07/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301146 GCSV Soil: EPA 8015B

Inst : GC26A
 Calnum : 868259571002
 Units : mg/L

Name : DSL_180
 Date : 29-JUN-2018 21:14
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	180a021	868259571021	DSL_10	29-JUN-2018 21:14	S36610
L2	180a022	868259571022	DSL_100	29-JUN-2018 21:42	S36611
L3	180a023	868259571023	DSL_500	29-JUN-2018 22:11	S36613
L4	180a024	868259571024	DSL_1000	29-JUN-2018 22:39	S36615
L5	180a025	868259571025	DSL_5000	29-JUN-2018 23:07	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	43525	42119	43689	43660	41648	AVRG		2.33E-5		42928	2	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	1	100.00	-2	500.00	2	1000.0	2	5000.0	-3

CB1 07/02/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 07/02/18

Reviewer: TKM

Date: 07/02/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301146 GCSV Soil
EPA 8015B

Inst : GC26A
Calnum : 868259571002

Name : DSL_180
Cal Date : 29-JUN-2018

ICV 868259571027 (180a027 30-JUN-2018) stds: S35844

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	471.6	mg/L	-6	15	

Analyst: CB1

Date: 07/02/18

Reviewer: TKM

Date: 07/02/18

ENTHALPY INITIAL CALIBRATION FOR 301146 GCSV Soil: EPA 8015B

Inst : GC26A
 Calnum : 868265382001
 Units : mg/L

Name : MO_184
 Date : 03-JUL-2018 20:50
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a025	868265382025	MO_50	03-JUL-2018 20:50	S36946
L2	184a026	868265382026	MO_250	03-JUL-2018 21:18	S36948
L3	184a027	868265382027	MO_500	03-JUL-2018 21:47	S36949
L4	184a028	868265382028	MO_1000	03-JUL-2018 22:15	S36951
L5	184a029	868265382029	MO_2500	03-JUL-2018 22:44	S36926 (2X)
L6	184a030	868265382030	MO_5000	03-JUL-2018 23:12	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	22394	26963	29070	29413	29894	29259	AVRG		3.59E-5		27832	10	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-20	250.00	-3	500.00	4	1000.0	6	2500.0	7	5000.0	5

CB1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301146 GCSV Soil
EPA 8015B

Inst : GC26A
Calnum : 868265382001

Name : MO_184
Cal Date : 03-JUL-2018

ICV 868265382032 (184a032 04-JUL-2018) stds: S37407

Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	473.4	mg/L	-5	15	

Analyst: CB1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228268211017 File : 186_017 Time : 05-JUL-2018 13:48
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	44287	1000	984.2	mg/L	-2	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	56415	50.00	50.99	mg/L	2	15	

WA1 07/05/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228268211018 File : 186_018 Time : 05-JUL-2018 14:16
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	31353	500.0	527.6	mg/L	6	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	53861	50.00	48.68	mg/L	-3	15	

WA1 07/05/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228268211032 File : 186_032 Time : 05-JUL-2018 22:52
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	45892	1000	1020	mg/L	2	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	58129	50.00	52.54	mg/L	5	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228268211033 File : 186_033 Time : 05-JUL-2018 23:20
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	32716	500.0	550.5	mg/L	10	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	56875	50.00	51.40	mg/L	3	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228269582003 File : 187_003 Time : 06-JUL-2018 05:59
 Standards: S37195

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	47137	500.0	523.8	mg/L	5	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	55945	50.00	50.56	mg/L	1	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228269582004 File : 187_004 Time : 06-JUL-2018 06:28
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	31933	500.0	537.3	mg/L	7	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	55295	50.00	49.97	mg/L	0	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228269582014 File : 187_014 Time : 06-JUL-2018 11:35
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	44726	1000	993.9	mg/L	-1	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	56310	50.00	50.89	mg/L	2	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228269582015 File : 187_015 Time : 06-JUL-2018 12:04
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	31993	500.0	538.4	mg/L	8	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	55549	50.00	50.20	mg/L	0	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
 Seqnum : 178268208019 File : 186a019 Time : 05-JUL-2018 17:49
 Standards: S36285

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178265382002	03-JUL-2018	64704	68335	250.0	264.0	mg/L	6	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	82367	50.00	53.11	mg/L	6	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

WA1: 07/06/18 EAH: 07/06/18 CB1: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178268208020 File : 186a020 Time : 05-JUL-2018 18:17
 Standards: S37407

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	178265382003	04-JUL-2018	49174	49787	500.0	506.2	mg/L	1	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	80533	50.00	51.93	mg/L	4	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
 Seqnum : 178268208030 File : 186a030 Time : 05-JUL-2018 22:53
 Standards: S37195

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	178265382002	03-JUL-2018	64704	71294	500.0	550.9	mg/L	10	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	84700	50.00	54.62	mg/L	9	15	

CB1 07/06/18 : ccv,s37195,dsl_500

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178268208031 File : 186a031 Time : 05-JUL-2018 23:20
 Standards: S37407

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178265382003	04-JUL-2018	49174	50333	500.0	511.8	mg/L	2	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	83229	50.00	53.67	mg/L	7	15	

CB1 07/06/18 : ccv,s37407,mo_500

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
 Seqnum : 178269582003 File : 187a003 Time : 06-JUL-2018 05:57
 Standards: S37195

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	178265382002	03-JUL-2018	64704	68265	500.0	527.5	mg/L	6	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	80570	50.00	51.95	mg/L	4	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: TKM Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178269582004 File : 187a004 Time : 06-JUL-2018 06:25
 Standards: S37407

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	178265382003	04-JUL-2018	49174	49875	500.0	507.1	mg/L	1	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	81074	50.00	52.28	mg/L	5	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: TKM Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178269582021 File : 187a021 Time : 06-JUL-2018 16:03
 Standards: S37407

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	178265382003	04-JUL-2018	49174	50933	500.0	517.9	mg/L	4	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	84409	50.00	54.43	mg/L	9	15	

WA1 07/06/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/06/18 Reviewer: TKM Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
 Seqnum : 178269582038 File : 187a038 Time : 06-JUL-2018 23:53
 Standards: S37195

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178265382002	03-JUL-2018	64704	72809	500.0	562.6	mg/L	13	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	84978	50.00	54.79	mg/L	10	15	

CB1 07/09/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/09/18 Reviewer: TKM Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178269582039 File : 187a039 Time : 07-JUL-2018 00:20
 Standards: S37407

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	178265382003	04-JUL-2018	49174	50673	500.0	515.2	mg/L	3	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	85383	50.00	55.06	mg/L	10	15	

CB1 07/09/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/09/18 Reviewer: EAH Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 868268223014 File : 186a014 Time : 05-JUL-2018 13:27
 Standards: S36227

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868259571002	29-JUN-2018	42928	39459	1000	919.2	mg/L	-8	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	47679	50.00	49.68	mg/L	-1	15	

CB1 07/05/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/05/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
 Seqnum : 868268223015 File : 186a015 Time : 05-JUL-2018 13:55
 Standards: S36833

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	868265382001	03-JUL-2018	27832	26877	500.0	482.8	mg/L	-3	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	45791	50.00	47.71	mg/L	-5	15	

WA1 07/05/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/05/18 Reviewer: EAH Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
 Seqnum : 868268223025 File : 186a025 Time : 05-JUL-2018 21:52
 Standards: S37195

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868259571002	29-JUN-2018	42928	41278	500.0	480.8	mg/L	-4	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	46689	50.00	48.65	mg/L	-3	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: TKM Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
 Seqnum : 868269619003 File : 187a003 Time : 06-JUL-2018 07:20
 Standards: S37195

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	868259571002	29-JUN-2018	42928	39861	500.0	464.3	mg/L	-7	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	45252	50.00	47.15	mg/L	-6	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: TKM Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
 Seqnum : 868269619004 File : 187a004 Time : 06-JUL-2018 07:48
 Standards: S36833

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	868265382001	03-JUL-2018	27832	26211	500.0	470.9	mg/L	-6	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	45398	50.00	47.30	mg/L	-5	15	

CB1 07/06/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/06/18 Reviewer: TKM Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 868269619017 File : 187a017 Time : 06-JUL-2018 14:02
 Standards: S36227

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868259571002	29-JUN-2018	42928	38355	1000	893.5	mg/L	-11	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	46874	50.00	48.84	mg/L	-2	15	

WA1 07/06/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/06/18 Reviewer: EAH Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
 Seqnum : 868269619033 File : 187a033 Time : 07-JUL-2018 00:01
 Standards: S37195

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868259571002	29-JUN-2018	42928	38515	500.0	448.6	mg/L	-10	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	43731	50.00	45.56	mg/L	-9	15	

CB1 07/09/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/09/18 Reviewer: EAH Date: 07/09/18

ENTHALPY CONTINUING CALIBRATION FOR 301146 GCSV Soil
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
 Seqnum : 868269619034 File : 187a034 Time : 07-JUL-2018 00:29
 Standards: S36833

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	868265382001	03-JUL-2018	27832	25201	500.0	452.7	mg/L	-9	15	
o-Terphenyl	868259571004	29-JUN-2018	47989	42949	50.00	44.75	mg/L	-11	15	

CB1 07/09/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/09/18 Reviewer: EAH Date: 07/09/18

Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178265382

Instrument : GC17A
 Method : EPA 8015B

Begun : 07/03/18 07:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	184a001	IB				07/03/18 07:02	1.0	
002	184a002	IB				07/03/18 07:29	1.0	
003	184a003	X	CMARKER			07/03/18 07:57	1.0	1
004	184a004	CCV	DSL_500			07/03/18 08:25	1.0	2
005	184a005	CCV	MO_500			07/03/18 08:53	1.0	3
007	184a007	IB				07/03/18 13:24	1.0	
008	184a008	X	CMARKER			07/03/18 13:52	1.0	1
009	184a009	CCV	DSL_500			07/03/18 14:19	1.0	2
010	184a010	CCV	MO_500			07/03/18 14:47	1.0	3
011	184a011	IB				07/03/18 17:13	1.0	
012	184a012	IB				07/03/18 17:40	1.0	
013	184a013	IB				07/03/18 18:08	1.0	
014	184a014	IB	CALIB			07/03/18 18:36	1.0	
015	184a015	ICAL	HEXOTP_2.5			07/03/18 19:03	1.0	4
016	184a016	ICAL	HEXOTP_5			07/03/18 19:31	1.0	4
017	184a017	ICAL	HEXOTP_10			07/03/18 19:58	1.0	5
018	184a018	ICAL	HEXOTP_25			07/03/18 20:26	1.0	6
019	184a019	ICAL	HEXOTP_50			07/03/18 20:53	1.0	7
020	184a020	ICAL	HEXOTP_100			07/03/18 21:21	1.0	8
021	184a021	IB	CALIB			07/03/18 21:49	1.0	
022	184a022	ICAL	DSL_10			07/03/18 22:17	1.0	9
023	184a023	ICAL	DSL_100			07/03/18 22:45	1.0	10
024	184a024	ICAL	DSL_500			07/03/18 23:13	1.0	11
025	184a025	ICAL	DSL_1000			07/03/18 23:40	1.0	12
026	184a026	ICAL	DSL_5000			07/04/18 00:08	1.0	13
027	184a027	IB	CALIB			07/04/18 00:36	1.0	
028	184a028	ICV	DSL_500			07/04/18 01:04	1.0	14
029	184a029	IB	CALIB			07/04/18 01:32	1.0	
030	184a030	ICAL	MO_50			07/04/18 02:00	1.0	15
031	184a031	ICAL	MO_250			07/04/18 02:28	1.0	16
032	184a032	ICAL	MO_500			07/04/18 02:55	1.0	17
033	184a033	ICAL	MO_1000			07/04/18 03:23	1.0	18
034	184a034	ICAL	MO_2500			07/04/18 03:51	1.0	19
035	184a035	ICAL	MO_5000			07/04/18 04:19	1.0	19
036	184a036	IB	CALIB			07/04/18 04:47	1.0	
037	184a037	ICV	MO_500			07/04/18 05:14	1.0	3
038	184a038	IB	CALIB			07/04/18 05:42	1.0	
039	184a039	CMARKER	C8-C40			07/04/18 06:10	1.0	1
040	184a040	IB	CALIB			07/04/18 06:38	1.0	

WA1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

Standards used: 1=S36439 2=S37195 3=S37407 4=S36499 5=S36500 6=S36501 7=S36502 8=S36503 9=S36610 10=S36611 11=S36613
 12=S36615 13=S36609 14=S35844 15=S36946 16=S36948 17=S36949 18=S36951 19=S36926

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178268208

Instrument : GC17A Begun : 07/05/18 06:08
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	186a001	IB				07/05/18 06:08	1.0		
002	186a002	X	CMARKER			07/05/18 06:35	1.0	1	
003	186a003	CCV	DSL_500			07/05/18 07:03	1.0	2	
004	186a004	CCV	MO_500			07/05/18 07:31	1.0	3	
005	186a005	SAMPLE	301104-005	Soil	261072	07/05/18 11:23	1.0		
006	186a006	SAMPLE	301176-020	Soil	261072	07/05/18 11:51	50.0		
007	186a007	SAMPLE	301137-003	Soil	261072	07/05/18 12:18	50.0		
008	186a008	SAMPLE	301176-020	Soil	261072	07/05/18 12:46	20.0		
009	186a009	IB				07/05/18 13:13	1.0		
010	186a010	SAMPLE	301104-006	Soil	261072	07/05/18 13:40	1.0		
011	186a011	SAMPLE	301104-007	Soil	261072	07/05/18 14:08	1.0		
012	186a012	SAMPLE	301104-008	Soil	261072	07/05/18 14:36	1.0		
013	186a013	SAMPLE	301104-009	Soil	261072	07/05/18 15:03	1.0		
014	186a014	SAMPLE	301104-010	Soil	261072	07/05/18 15:31	1.0		
015	186a015	SAMPLE	301104-011	Soil	261072	07/05/18 15:58	1.0		
016	186a016	SAMPLE	301104-012	Soil	261072	07/05/18 16:26	1.0		
017	186a017	SAMPLE	301104-013	Soil	261072	07/05/18 16:54	1.0		
018	186a018	SAMPLE	301104-014	Soil	261072	07/05/18 17:21	1.0		
019	186a019	CCV	DSL_250			07/05/18 17:49	1.0	4	
020	186a020	CCV	MO_500			07/05/18 18:17	1.0	3	
021	186a021	X	CMARKER			07/05/18 18:44	1.0	1	
022	186a022	SAMPLE	301146-009	Soil	261160	07/05/18 19:12	1.0		
023	186a023	SAMPLE	301146-010	Soil	261160	07/05/18 19:40	1.0		
024	186a024	SAMPLE	301146-011	Soil	261160	07/05/18 20:07	1.0		
025	186a025	SAMPLE	301146-012	Soil	261160	07/05/18 20:35	1.0		12:BUNKC:12-40=370000
026	186a026	SAMPLE	301146-013	Soil	261160	07/05/18 21:02	2.0		10:BUNKC:10-40=42000
027	186a027	IB				07/05/18 21:29	1.0		
028	186a028	SAMPLE	301207-009	Soil	261160	07/05/18 21:57	1.0		
029	186a029	SAMPLE	301207-011	Soil	261160	07/05/18 22:25	1.0		
030	186a030	CCV	DSL_500			07/05/18 22:53	1.0	2	
031	186a031	CCV	MO_500			07/05/18 23:20	1.0	3	
032	186a032	X	CMARKER			07/05/18 23:48	1.0	1	

WA1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 21.

CB1 07/06/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 22 through 32.

Standards used: 1=S36439 2=S37195 3=S37407 4=S36285

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178269582

Instrument : GC17A Begun : 07/06/18 05:02
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	187a001	IB				07/06/18 05:02	1.0		
002	187a002	CMARKER	C8-C40			07/06/18 05:29	1.0	1	
003	187a003	CCV	DSL_500			07/06/18 05:57	1.0	2	
004	187a004	CCV	MO_500			07/06/18 06:25	1.0	3	
005	187a005	SAMPLE	301119-002	Soil	261170	07/06/18 08:14	1.0		11:BUNKC:10-40=290000
006	187a006	SAMPLE	301119-003	Soil	261170	07/06/18 08:42	1.0		11:BUNKC:10-40=330000
007	187a007	SAMPLE	301119-004	Soil	261170	07/06/18 09:35	1.0		11:BUNKC:10-40=250000
008	187a008	SAMPLE	301119-001	Soil	261170	07/06/18 10:03	1.0		9:BUNKC:10-40=120000
009	187a009	IB				07/06/18 10:31	1.0		
010	187a010	SAMPLE	301164-010	Soil	261170	07/06/18 10:59	1.0		
011	187a011	SAMPLE	301164-007	Soil	261170	07/06/18 11:26	1.0		
012	187a012	SAMPLE	301146-014	Soil	261170	07/06/18 11:54	1.0		10:BUNKC:10-40=40000
013	187a013	SAMPLE	301146-017	Soil	261170	07/06/18 12:22	1.0		9:BUNKC:10-40=64000
014	187a014	SAMPLE	301146-022	Soil	261170	07/06/18 12:49	1.0		
015	187a015	SAMPLE	301146-025	Soil	261170	07/06/18 13:17	1.0		8:BUNKC:10-40=20000
016	187a016	SAMPLE	301146-024	Soil	261170	07/06/18 13:45	1.0		8:BUNKC:10-40=22000
017	187a017	SAMPLE	301146-023	Soil	261170	07/06/18 14:12	1.0		
018	187a018	SAMPLE	301146-018	Soil	261170	07/06/18 14:40	1.0		
019	187a019	SAMPLE	301146-019	Soil	261170	07/06/18 15:08	1.0		
020	187a020	CCV	DSL_250			07/06/18 15:36	1.0	4	
021	187a021	CCV	MO_500			07/06/18 16:03	1.0	3	
022	187a022	X	CMARKER			07/06/18 16:31	1.0	1	
023	187a023	SAMPLE	301146-014	Soil	261170	07/06/18 16:59	20.0		
024	187a024	SAMPLE	301146-017	Soil	261170	07/06/18 17:27	20.0		
025	187a025	SAMPLE	301146-024	Soil	261170	07/06/18 17:54	10.0		
026	187a026	SAMPLE	301146-025	Soil	261170	07/06/18 18:22	10.0		
027	187a027	SAMPLE	301146-012	Soil	261160	07/06/18 18:50	100.0		
028	187a028	SAMPLE	301146-013	Soil	261160	07/06/18 19:18	20.0		
029	187a029	SAMPLE	301146-026	Soil	261199	07/06/18 19:45	10.0		
030	187a030	IB				07/06/18 20:13	1.0		
031	187a031	SAMPLE	301146-027	Soil	261199	07/06/18 20:40	1.0		
032	187a032	SAMPLE	301146-029	Soil	261199	07/06/18 21:08	1.0		
033	187a033	SAMPLE	301146-030	Soil	261199	07/06/18 21:35	1.0		
034	187a034	SAMPLE	301146-031	Soil	261199	07/06/18 22:02	10.0		
035	187a035	IB				07/06/18 22:30	1.0		
036	187a036	SAMPLE	301276-001	Soil	261199	07/06/18 22:57	1.0		
037	187a037	SAMPLE	301276-003	Soil	261199	07/06/18 23:25	1.0		
038	187a038	CCV	DSL_500			07/06/18 23:53	1.0	2	
039	187a039	CCV	MO_500			07/07/18 00:20	1.0	3	
040	187a040	X	CMARKER			07/07/18 00:48	1.0	1	

CB1 07/09/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	113_001	IB					04/23/18 06:10	1.0	
002	113_002	IB					04/23/18 06:38	1.0	
003	113_003	X	CMARKER				04/23/18 07:06	1.0	1
004	113_004	CCV	DSL_500				04/23/18 07:34	1.0	2
005	113_005	CCV	MO_500				04/23/18 08:35	1.0	3
006	113_006	CCV	DSL_500				04/23/18 09:02	1.0	2
007	113_007	IB					04/23/18 12:40	1.0	
008	113_008	X	CMARKER				04/23/18 13:07	1.0	1
009	113_009	CCV	DSL_500				04/23/18 13:35	1.0	2
010	113_010	CCV	MO_500				04/23/18 14:03	1.0	3
012	113_012	IB					04/23/18 15:27	1.0	
013	113_013	SAMPLE	299115-001		Soil	258772	04/23/18 16:57	1.0	
014	113_014	SAMPLE	299115-002		Soil	258772	04/23/18 17:25	1.0	
015	113_015	SAMPLE	299115-003		Soil	258772	04/23/18 17:53	1.0	
016	113_016	SAMPLE	299115-004		Soil	258772	04/23/18 18:20	1.0	
017	113_017	SAMPLE	299056-001		Soil	258772	04/23/18 18:48	2.0	
018	113_018	IB					04/23/18 19:16	1.0	
019	113_019	SAMPLE	299117-001		Soil	258772	04/23/18 19:44	1.0	
020	113_020	SAMPLE	299117-002		Soil	258772	04/23/18 20:11	1.0	
021	113_021	MS	QC929007	S	Soil	258726	04/23/18 20:39	1.0	
022	113_022	MSD	QC929008	S	Soil	258726	04/23/18 21:07	1.0	
023	113_023	IB					04/23/18 21:35	1.0	
024	113_024	CCV	DSL_250				04/23/18 22:03	1.0	4
025	113_025	CCV	MO_500				04/23/18 22:31	1.0	3
026	113_026	X	CMARKER				04/23/18 22:59	1.0	1
027	113_027	BLANK	QC929171		Soil	258772	04/23/18 23:27	1.0	
028	113_028	LCS	QC929172		Soil	258772	04/23/18 23:55	1.0	
029	113_029	MSS	299056-002		Soil	258772	04/24/18 00:23	1.0	
030	113_030	MS	QC929173		Soil	258772	04/24/18 00:51	1.0	
031	113_031	MSD	QC929174		Soil	258772	04/24/18 01:19	1.0	
032	113_032	SAMPLE	299118-001		Soil	258772	04/24/18 01:47	1.0	
033	113_033	SAMPLE	299119-001		Soil	258772	04/24/18 02:14	1.0	
034	113_034	IB					04/24/18 02:42	1.0	
035	113_035	SAMPLE	299126-001		Soil	258772	04/24/18 03:10	1.0	
036	113_036	SAMPLE	299126-002		Soil	258772	04/24/18 03:38	1.0	
037	113_037	SAMPLE	299116-001		Soil	258772	04/24/18 04:06	1.0	
038	113_038	SAMPLE	299116-002		Soil	258772	04/24/18 04:34	1.0	
039	113_039	IB					04/24/18 05:02	1.0	
040	113_040	CCV	DSL_500				04/24/18 05:30	1.0	2
041	113_041	CCV	MO_500				04/24/18 05:58	1.0	3
042	113_042	X	CMARKER				04/24/18 06:26	1.0	1
043	113_043	SAMPLE	299056-005		Soil	258786	04/24/18 07:10	1.0	
044	113_044	SAMPLE	299056-006		Soil	258786	04/24/18 07:38	1.0	
045	113_045	SAMPLE	299055-001		Soil	258786	04/24/18 08:10	1.0	
046	113_046	SAMPLE	299055-002		Soil	258786	04/24/18 08:38	1.0	
047	113_047	SAMPLE	299055-004		Soil	258786	04/24/18 09:06	1.0	
048	113_048	SAMPLE	299055-005		Soil	258786	04/24/18 09:34	1.0	
049	113_049	SAMPLE	299055-006		Soil	258786	04/24/18 10:02	1.0	
050	113_050	SAMPLE	299055-007		Soil	258786	04/24/18 10:30	1.0	
051	113_051	CCV	DSL_1000				04/24/18 10:58	1.0	5
052	113_052	CCV	MO_500				04/24/18 11:26	1.0	3
053	113_053	X	CMARKER				04/24/18 11:54	1.0	1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B Begun : 04/23/18 06:10
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	113_054	CCV	DSL_1000				04/24/18 12:22	1.0	5
055	113_055	CCV	DSL_1000				04/24/18 12:50	1.0	5
056	113_056	IB					04/24/18 16:52	1.0	
057	113_057	IB	CALIB				04/24/18 17:20	1.0	
058	113_058	ICAL	HEX OTP_5				04/24/18 17:47	1.0	6
059	113_059	ICAL	HEX OTP_10				04/24/18 18:15	1.0	7
060	113_060	ICAL	HEX OTP_25				04/24/18 18:43	1.0	8
061	113_061	ICAL	HEX OTP_50				04/24/18 19:10	1.0	9
062	113_062	ICAL	HEX OTP_100				04/24/18 19:38	1.0	10
063	113_063	ICAL	HEX OTP_200				04/24/18 20:06	1.0	11
064	113_064	IB	CALIB				04/24/18 20:33	1.0	
065	113_065	ICAL	DSL_10				04/24/18 21:01	1.0	12
066	113_066	ICAL	DSL_100				04/24/18 21:29	1.0	13
067	113_067	ICAL	DSL_500				04/24/18 21:57	1.0	14
068	113_068	ICAL	DSL_1000				04/24/18 22:25	1.0	15
069	113_069	ICAL	DSL_5000				04/24/18 22:53	1.0	16
070	113_070	IB	CALIB				04/24/18 23:21	1.0	
071	113_071	ICV	DSL_500				04/24/18 23:49	1.0	17
072	113_072	IB	CALIB				04/25/18 00:17	1.0	
073	113_073	ICAL	MO_50				04/25/18 00:45	1.0	18
074	113_074	ICAL	MO_250				04/25/18 01:13	1.0	19
075	113_075	ICAL	MO_500				04/25/18 01:41	1.0	20
076	113_076	ICAL	MO_1000				04/25/18 02:09	1.0	21
077	113_077	ICAL	MO_2500				04/25/18 02:37	1.0	22
078	113_078	ICAL	MO_5000				04/25/18 03:05	1.0	22
079	113_079	IB	CALIB				04/25/18 03:33	1.0	
080	113_080	CMARKER	C8-C50				04/25/18 04:01	1.0	23
081	113_081	IB	CALIB				04/25/18 04:29	1.0	

CB1 04/25/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 81.

CB1 04/23/18 : Hardware failure (bent syringe) for run at position 4, RR DSL opening CCV.

WA1 04/23/18 : Position 11 was mis-injected.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S35149 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S36610 13=S36611 14=S36613 15=S36615 16=S36609 17=S35164 18=S34924 19=S34925 20=S34926 21=S34927 22=S34923
 23=S35483

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228223554

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/04/18 05:54
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	155_001	IB				06/04/18 05:54	1.0	
002	155_002	CCV	DSL_500			06/04/18 06:22	1.0	1
003	155_003	CCV	MO_500			06/04/18 06:51	1.0	2
004	155_004	X	CMARKER			06/04/18 07:19	1.0	3
005	155_005	CCV	JET_250			06/04/18 08:37	1.0	4
006	155_006	BLANK	QC934363	Water	260120	06/04/18 11:26	1.0	
007	155_007	BS	QC934364	Water	260120	06/04/18 11:54	1.0	
008	155_008	BSD	QC934365	Water	260120	06/04/18 12:23	1.0	
009	155_009	SAMPLE	300258-001	Water	260120	06/04/18 12:51	1.0	
010	155_010	CCV	DSL_1000			06/04/18 13:19	1.0	5
011	155_011	CCV	MO_500			06/04/18 14:54	1.0	2
012	155_012	CCV	JET_250			06/04/18 15:23	1.0	4
013	155_013	X	CMARKER			06/04/18 15:51	1.0	3
014	155_014	IB				06/04/18 16:20	1.0	
015	155_015	IB	CALIB			06/04/18 16:48	1.0	
016	155_016	ICAL	MO_50			06/04/18 17:17	1.0	6
017	155_017	ICAL	MO_250			06/04/18 17:45	1.0	7
018	155_018	ICAL	MO_500			06/04/18 18:14	1.0	8
019	155_019	ICAL	MO_1000			06/04/18 18:43	1.0	9
020	155_020	ICAL	MO_2500			06/04/18 19:11	1.0	10
021	155_021	ICAL	MO_5000			06/04/18 19:39	1.0	10
022	155_022	IB	CALIB			06/04/18 20:08	1.0	
023	155_023	CMARKER	C8-C40			06/04/18 20:36	1.0	3
024	155_024	IB	CALIB			06/04/18 21:04	1.0	

CB1 06/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	183_001	IB					07/02/18 06:17	1.0	
002	183_002	IB					07/02/18 06:46	1.0	
003	183_003	X	CMARKER				07/02/18 07:14	1.0	1
004	183_004	CCV	DSL_500				07/02/18 07:43	1.0	2
005	183_005	CCV	MO_500				07/02/18 08:11	1.0	3
006	183_006	BLANK	QC937860		Water	260995	07/02/18 10:57	1.0	
007	183_007	LCS	QC937861		Water	260995	07/02/18 11:26	1.0	
008	183_008	MSS	301108-001		Water	260995	07/02/18 11:54	1.0	
009	183_009	MS	QC937862		Water	260995	07/02/18 12:23	1.0	
010	183_010	MSD	QC937863		Water	260995	07/02/18 12:51	1.0	
011	183_011	SAMPLE	301135-001		Water	260995	07/02/18 13:20	1.0	
012	183_012	CCV	DSL_1000				07/02/18 13:54	1.0	4
013	183_013	CCV	MO_500				07/02/18 14:22	1.0	3
014	183_014	X	CMARKER				07/02/18 14:51	1.0	1
015	183_015	SAMPLE	301076-001		Soil	261040	07/02/18 16:07	1.0	
016	183_016	SAMPLE	301076-002		Soil	261040	07/02/18 16:36	1.0	
017	183_017	SAMPLE	301076-003		Soil	261040	07/02/18 17:04	1.0	
018	183_018	SAMPLE	301076-004		Soil	261040	07/02/18 17:32	1.0	
019	183_019	SAMPLE	301076-005		Soil	261040	07/02/18 18:00	1.0	
020	183_020	SAMPLE	301106-002		Soil	261040	07/02/18 18:29	2.0	
021	183_021	IB					07/02/18 18:57	1.0	
022	183_022	BLANK	QC938133		Soil	261063	07/02/18 19:25	1.0	
023	183_023	LCS	QC938134		Soil	261063	07/02/18 19:53	1.0	
024	183_024	MSS	301193-001		Soil	261063	07/02/18 20:21	3.0	
025	183_025	MS	QC938135		Soil	261063	07/02/18 20:49	3.0	
026	183_026	MSD	QC938136		Soil	261063	07/02/18 21:18	3.0	
027	183_027	IB					07/02/18 21:46	1.0	
028	183_028	SAMPLE	301106-001		Soil	261040	07/02/18 22:15	1.0	
029	183_029	CCV	DSL_500				07/02/18 22:43	1.0	2
030	183_030	CCV	MO_500				07/02/18 23:12	1.0	3
031	183_031	X	CMARKER				07/02/18 23:41	1.0	1
032	183_032	IB	CALIB				07/03/18 00:09	1.0	
033	183_033	ICAL	HEX OTP_2.5				07/03/18 00:37	1.0	5
034	183_034	ICAL	HEX OTP_5				07/03/18 01:06	1.0	5
035	183_035	ICAL	HEX OTP_10				07/03/18 01:34	1.0	6
036	183_036	ICAL	HEX OTP_25				07/03/18 02:03	1.0	7
037	183_037	ICAL	HEX OTP_50				07/03/18 02:31	1.0	8
038	183_038	ICAL	HEX OTP_100				07/03/18 03:00	1.0	9
039	183_039	IB	CALIB				07/03/18 03:28	1.0	
040	183_040	CMARKER	C8-C40				07/03/18 03:57	1.0	1
041	183_041	IB	CALIB				07/03/18 04:25	1.0	
042	183_042	IB					07/03/18 07:02	1.0	
043	183_043	X	CMARKER				07/03/18 07:30	1.0	1
044	183_044	CCV	DSL_500				07/03/18 07:59	1.0	2
045	183_045	CCV	MO_500				07/03/18 08:27	1.0	3
046	183_046	BLANK	QC938045		Soil	261040	07/03/18 11:14	1.0	
047	183_047	LCS	QC938046		Soil	261040	07/03/18 11:42	1.0	
048	183_048	LCS	QC938165		Soil	261072	07/03/18 12:10	1.0	
049	183_049	BLANK	QC938164		Soil	261072	07/03/18 12:38	1.0	
050	183_050	SAMPLE	301076-015		Soil	261063	07/03/18 13:07	1.0	
051	183_051	SAMPLE	301076-016		Soil	261063	07/03/18 13:35	1.0	
052	183_052	SAMPLE	301076-017		Soil	261063	07/03/18 14:03	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	183_053	SAMPLE	301076-014		Soil	261063	07/03/18 14:32	1.0		
054	183_054	SAMPLE	301070-001		Soil	261040	07/03/18 15:00	3.0		
055	183_055	SAMPLE	301124-001		Soil	261072	07/03/18 15:29	10.0		
056	183_056	IB					07/03/18 15:57	1.0		
057	183_057	MSS	301170-003		Soil	261072	07/03/18 16:25	1.0		
058	183_058	MS	QC938166		Soil	261072	07/03/18 16:54	1.0		
059	183_059	MSD	QC938167		Soil	261072	07/03/18 17:22	1.0		
060	183_060	CCV	DSL_250				07/03/18 18:15	1.0	10	
061	183_061	XCCV	MO_500				07/03/18 18:44	1.0	3	
062	183_062	X	CMARKER				07/03/18 19:12	1.0	1	
063	183_063	CCV	BUNK_500				07/03/18 19:40	1.0	11	
064	183_064	CCV	MO_500				07/03/18 20:09	1.0	3	
065	183_065	CCV	MO_500				07/03/18 20:37	1.0	3	
066	183_066	BLANK	QC938088		Water	261052	07/03/18 21:05	1.0		
067	183_067	BLANK	QC938045	S	Soil	261040	07/03/18 21:34	1.0		
068	183_068	LCS	QC938046	S	Soil	261040	07/03/18 22:02	1.0		
069	183_069	SAMPLE	301143-001	S	Soil	261040	07/03/18 22:31	1.0		
070	183_070	IB					07/03/18 22:59	1.0		
071	183_071	SAMPLE	301076-025		Water	261052	07/03/18 23:28	1.0		
072	183_072	SAMPLE	301189-001		Water	261052	07/03/18 23:57	1.0		
073	183_073	SAMPLE	301189-002		Water	261052	07/04/18 00:26	1.0		
074	183_074	SAMPLE	301189-003		Water	261052	07/04/18 00:54	1.0		
075	183_075	SAMPLE	301170-001		Soil	261072	07/04/18 01:23	1.0		
076	183_076	SAMPLE	301170-002		Soil	261072	07/04/18 01:52	1.0		
077	183_077	SAMPLE	301213-001		Soil	261040	07/04/18 02:20	1.0		
078	183_078	SAMPLE	301111-001		Water	261052	07/04/18 02:49	2.0		
079	183_079	CCV	DSL_500				07/04/18 03:18	1.0	2	
080	183_080	CCV	MO_500				07/04/18 03:46	1.0	3	
081	183_081	CCV	BUNK_500				07/04/18 04:15	1.0	11	
082	183_082	X	CMARKER				07/04/18 04:44	1.0	1	
083	183_083	SAMPLE	301104-001		Soil	261072	07/04/18 05:12	1.0		
084	183_084	SAMPLE	301104-002		Soil	261072	07/04/18 05:41	1.0		
085	183_085	SAMPLE	301104-003		Soil	261072	07/04/18 06:10	1.0		
086	183_086	SAMPLE	301104-004		Soil	261072	07/04/18 06:38	1.0		
087	183_087	SAMPLE	301176-001		Soil	261040	07/04/18 07:07	10.0		
088	183_088	IB					07/04/18 07:35	1.0		
089	183_089	SAMPLE	301076-006		Soil	261063	07/04/18 08:04	1.0		
090	183_090	SAMPLE	301076-007		Soil	261063	07/04/18 08:32	1.0		
091	183_091	SAMPLE	301076-008		Soil	261063	07/04/18 09:01	1.0		
092	183_092	SAMPLE	301076-009		Soil	261063	07/04/18 09:29	1.0		
093	183_093	SAMPLE	301076-010		Soil	261063	07/04/18 09:58	1.0		
094	183_094	SAMPLE	301076-011		Soil	261063	07/04/18 10:26	1.0		
095	183_095	SAMPLE	301076-012		Soil	261063	07/04/18 10:55	1.0		
096	183_096	SAMPLE	301076-013		Soil	261063	07/04/18 11:24	1.0		
097	183_097	CCV	DSL_1000				07/04/18 11:52	1.0	4	
098	183_098	CCV	MO_500				07/04/18 12:21	1.0	3	
099	183_099	X	CMARKER				07/04/18 12:49	1.0	1	
100	183_100	BLANK	QC938316		Soil	261112	07/04/18 13:17	1.0		
101	183_101	LCS	QC938317		Soil	261112	07/04/18 13:45	1.0		
102	183_102	MSS	301147-003		Soil	261112	07/04/18 14:13	3.0		11:BUNKC:12-40=27000
103	183_103	MS	QC938318		Soil	261112	07/04/18 14:42	3.0		8:BUNKC:12-40=19000
104	183_104	MSD	QC938319		Soil	261112	07/04/18 15:10	3.0		11:BUNKC:12-40=22000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B Begun : 07/02/18 06:17
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	183_105	SAMPLE	301147-004		Soil	261112	07/04/18 15:38	3.0		11:BUNKC:12-40=20000
106	183_106	IB					07/04/18 16:06	1.0		
107	183_107	SAMPLE	301147-005		Soil	261112	07/04/18 16:34	1.0		
108	183_108	SAMPLE	301147-006		Soil	261112	07/04/18 17:02	1.0		
109	183_109	SAMPLE	301147-007		Soil	261112	07/04/18 17:30	1.0		
110	183_110	SAMPLE	301148-001		Soil	261112	07/04/18 17:59	1.0		
111	183_111	MSS	301148-002		Soil	261112	07/04/18 18:27	1.0		
112	183_112	SAMPLE	301148-003		Soil	261112	07/04/18 18:55	1.0		
113	183_113	CCV	DSL_500				07/04/18 19:23	1.0	2	
114	183_114	CCV	MO_500				07/04/18 19:51	1.0	3	
115	183_115	X	CMARKER				07/04/18 20:19	1.0	1	
116	183_116	SAMPLE	301076-018		Soil	261063	07/04/18 20:48	1.0		
117	183_117	SAMPLE	301076-019		Soil	261063	07/04/18 21:16	1.0		
118	183_118	SAMPLE	301076-020		Soil	261063	07/04/18 21:45	1.0		
119	183_119	SAMPLE	301076-021		Soil	261063	07/04/18 22:13	1.0		
120	183_120	SAMPLE	301176-015		Soil	261040	07/04/18 22:42	10.0		2:BUNKC:12-40=5500
121	183_121	IB					07/04/18 23:10	1.0		
122	183_122	SAMPLE	301076-022		Soil	261063	07/04/18 23:38	1.0		
123	183_123	SAMPLE	301076-023		Soil	261063	07/05/18 00:07	1.0		
124	183_124	SAMPLE	301176-006		Soil	261040	07/05/18 00:35	100.0		
125	183_125	IB					07/05/18 01:04	1.0		
126	183_126	IB					07/05/18 01:32	1.0		
127	183_127	SAMPLE	301176-014		Soil	261040	07/05/18 02:00	10.0		2:BUNKC:12-40=6200
128	183_128	IB					07/05/18 02:29	1.0		
129	183_129	SAMPLE	301229-001		Soil	261112	07/05/18 02:57	1.0		
130	183_130	CCV	DSL_1000				07/05/18 03:26	1.0	4	
131	183_131	CCV	MO_500				07/05/18 03:54	1.0	3	
132	183_132	X	CMARKER				07/05/18 04:23	1.0	1	

CB1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 5.

WA1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 6 through 14.

WA1 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 15 through 62.

CB1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 63 through 132.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228268211

Instrument : GC14B Begun : 07/05/18 06:11
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	186_001	IB				07/05/18 06:11	1.0	
002	186_002	X	CMARKER			07/05/18 06:40	1.0	1
003	186_003	CCV	DSL_500			07/05/18 07:08	1.0	2
004	186_004	CCV	MO_500			07/05/18 07:37	1.0	3
005	186_005	BLANK	QC938320	Soil	261113	07/05/18 08:07	1.0	
006	186_006	LCS	QC938321	Soil	261113	07/05/18 08:35	1.0	
007	186_007	MSS	301148-006	Soil	261113	07/05/18 09:04	1.0	2:BUNKC:12-40=5200
008	186_008	MS	QC938322	Soil	261113	07/05/18 09:33	1.0	2:BUNKC:12-40=6300
009	186_009	MSD	QC938323	Soil	261113	07/05/18 10:01	1.0	2:BUNKC:12-40=6700
010	186_010	SAMPLE	301207-004	Soil	261113	07/05/18 10:30	5.0	
011	186_011	SAMPLE	301207-003	Soil	261113	07/05/18 10:58	2.0	
012	186_012	SAMPLE	301207-001	Soil	261113	07/05/18 11:27	3.0	
013	186_013	SAMPLE	301207-002	Soil	261113	07/05/18 11:55	2.0	
014	186_014	MS	QC938331	Soil	261112	07/05/18 12:23	1.0	
015	186_015	MSD	QC938332	Soil	261112	07/05/18 12:51	1.0	
016	186_016	SAMPLE	301148-004	Soil	261112	07/05/18 13:19	1.0	
017	186_017	CCV	DSL_1000			07/05/18 13:48	1.0	4
018	186_018	CCV	MO_500			07/05/18 14:16	1.0	3
019	186_019	X	CMARKER			07/05/18 14:44	1.0	1
020	186_020	CHECK	CCV			07/05/18 15:34	1.0	5
021	186_021	CHECK	CCV			07/05/18 16:02	1.0	6
022	186_022	BLANK	QC938469	Soil	261160	07/05/18 18:10	1.0	
023	186_023	LCS	QC938470	Soil	261160	07/05/18 18:38	1.0	
024	186_024	MSS	301207-010	Soil	261160	07/05/18 19:06	1.0	
025	186_025	MS	QC938471	Soil	261160	07/05/18 19:34	1.0	
026	186_026	MSD	QC938472	Soil	261160	07/05/18 20:02	1.0	
027	186_027	IB				07/05/18 20:30	1.0	
028	186_028	SAMPLE	301207-005	Soil	261160	07/05/18 20:58	1.0	
029	186_029	SAMPLE	301207-006	Soil	261160	07/05/18 21:26	1.0	
030	186_030	SAMPLE	301207-007	Soil	261160	07/05/18 21:55	1.0	
031	186_031	SAMPLE	301207-008	Soil	261160	07/05/18 22:23	1.0	
032	186_032	CCV	DSL_1000			07/05/18 22:52	1.0	4
033	186_033	CCV	MO_500			07/05/18 23:20	1.0	3
034	186_034	X	CMARKER			07/05/18 23:49	1.0	1

CB1 07/06/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 34.

Standards used: 1=S36439 2=S37195 3=S37407 4=S36227 5=S37560 6=S37561

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228269582

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/06/18 05:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	187_001	IB					07/06/18 05:02	1.0		
002	187_002	X	CMARKER				07/06/18 05:30	1.0	1	
003	187_003	CCV	DSL_500				07/06/18 05:59	1.0	2	
004	187_004	CCV	MO_500				07/06/18 06:28	1.0	3	
005	187_005	BLANK	QC938515		Soil	261170	07/06/18 07:15	1.0		
006	187_006	LCS	QC938516		Soil	261170	07/06/18 07:43	1.0		
007	187_007	MSS	301146-016		Soil	261170	07/06/18 08:12	1.0		12:BUNKC:12-40=300000
008	187_008	XMS	QC938517		Soil	261170	07/06/18 08:40	1.0		
009	187_009	IB					07/06/18 09:13	1.0		
010	187_010	BLANK	QC938515	S	Soil	261170	07/06/18 09:42	1.0		
011	187_011	LCS	QC938516	S	Soil	261170	07/06/18 10:10	1.0		
012	187_012	SAMPLE	301275-001	S	Soil	261170	07/06/18 10:39	5.0		
013	187_013	MSS	301146-016		Soil	261170	07/06/18 11:07	50.0		2:BUNKC:10-40=6200
014	187_014	CCV	DSL_1000				07/06/18 11:35	1.0	4	
015	187_015	CCV	MO_500				07/06/18 12:04	1.0	3	
016	187_016	X	CMARKER				07/06/18 12:32	1.0	1	
017	187_017	CCV	BUNK_500				07/06/18 13:13	1.0	5	
018	187_018	BLANK	QC938419		Water	261148	07/06/18 13:42	1.0		
019	187_019	BS	QC938420		Water	261148	07/06/18 14:10	1.0		
020	187_020	BSD	QC938421		Water	261148	07/06/18 14:38	1.0		
021	187_021	SAMPLE	301080-003		Water	261148	07/06/18 15:07	2.0		
022	187_022	SAMPLE	301080-007		Water	261148	07/06/18 15:35	10.0		2:BUNKC:12-40=5200
023	187_023	IB					07/06/18 16:04	1.0		
024	187_024	SAMPLE	301080-007		Water	261148	07/06/18 16:33	20.0		
025	187_025	SAMPLE	301209-001		Water	261148	07/06/18 17:01	1.0		
026	187_026	SAMPLE	301217-002		Water	261148	07/06/18 17:30	1.0		
027	187_027	SAMPLE	301242-001		Water	261148	07/06/18 17:58	1.0		
028	187_028	SAMPLE	301241-001		Water	261148	07/06/18 18:27	1.0		
029	187_029	SAMPLE	301237-005		Water	261148	07/06/18 18:55	1.0		
030	187_030	SAMPLE	301237-006		Water	261148	07/06/18 19:24	1.0		
031	187_031	SAMPLE	301225-001		Soil	261170	07/06/18 19:52	1.0		sh
032	187_032	CCV	DSL_1000				07/06/18 20:21	1.0	4	
033	187_033	CCV	MO_500				07/06/18 20:49	1.0	3	
034	187_034	CCV	BUNK_500				07/06/18 21:17	1.0	5	
035	187_035	X	CMARKER				07/06/18 21:45	1.0	1	

CB1 07/09/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 35.

Standards used: 1=S36439 2=S37195 3=S37407 4=S36227 5=S36287

Flags used: sh=out of sample hold

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868259571

Instrument : GC26A
 Method : EPA 8015B

Begun : 06/29/18 06:11
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	180a001	IB				06/29/18 06:11	1.0	
002	180a002	X	CMARKER			06/29/18 06:39	1.0	1
003	180a003	CCV	DSL_500			06/29/18 07:07	1.0	2
004	180a004	CCV	MO_500			06/29/18 07:36	1.0	3
005	180a005	SAMPLE	301115-001	Water	260953	06/29/18 10:51	1.0	
006	180a006	BLANK	QC937707	Water	260953	06/29/18 11:19	1.0	
007	180a007	BLANK	QC937692	Miscell.	260949	06/29/18 11:49	1.0	
008	180a008	BS	QC937693	Miscell.	260949	06/29/18 12:17	1.0	
009	180a009	BSD	QC937694	Miscell.	260949	06/29/18 12:45	1.0	
010	180a010	CCV	DSL_1000			06/29/18 13:14	1.0	4
011	180a011	CCV	MO_500			06/29/18 13:43	1.0	3
012	180a012	X	CMARKER			06/29/18 14:11	1.0	1
013	180a013	IB	CALIB			06/29/18 17:29	1.0	
014	180a014	ICAL	HEXOTP_2.5			06/29/18 17:57	1.0	5
015	180a015	ICAL	HEXOTP_5			06/29/18 18:25	1.0	5
016	180a016	ICAL	HEXOTP_10			06/29/18 18:53	1.0	6
017	180a017	ICAL	HEXOTP_25			06/29/18 19:22	1.0	7
018	180a018	ICAL	HEXOTP_50			06/29/18 19:50	1.0	8
019	180a019	ICAL	HEXOTP_100			06/29/18 20:18	1.0	9
020	180a020	IB	CALIB			06/29/18 20:46	1.0	
021	180a021	ICAL	DSL_10			06/29/18 21:14	1.0	10
022	180a022	ICAL	DSL_100			06/29/18 21:42	1.0	11
023	180a023	ICAL	DSL_500			06/29/18 22:11	1.0	12
024	180a024	ICAL	DSL_1000			06/29/18 22:39	1.0	13
025	180a025	ICAL	DSL_5000			06/29/18 23:07	1.0	14
026	180a026	IB	CALIB			06/29/18 23:35	1.0	
027	180a027	ICV	DSL_500			06/30/18 00:04	1.0	15
028	180a028	IB	CALIB			06/30/18 00:32	1.0	
029	180a029	ICAL	MO_50			06/30/18 01:00	1.0	16
030	180a030	ICAL	MO_250			06/30/18 01:27	1.0	17
031	180a031	ICAL	MO_500			06/30/18 01:56	1.0	18
032	180a032	ICAL	MO_1000			06/30/18 02:24	1.0	19
033	180a033	ICAL	MO_2500			06/30/18 02:52	1.0	20
034	180a034	ICAL	MO_5000			06/30/18 03:20	1.0	20
035	180a035	IB	CALIB			06/30/18 03:48	1.0	
036	180a036	ICV	MO_500			06/30/18 04:15	1.0	21
037	180a037	IB	CALIB			06/30/18 04:43	1.0	
038	180a038	CMARKER	C8-C40			06/30/18 05:11	1.0	1
039	180a039	IB	CALIB			06/30/18 05:39	1.0	

CB1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 39.

Standards used: 1=S36439 2=S37195 3=S36833 4=S36227 5=S36499 6=S36500 7=S36501 8=S36502 9=S36503 10=S36610 11=S36611
 12=S36613 13=S36615 14=S36609 15=S35844 16=S36946 17=S36948 18=S36949 19=S36951 20=S36926 21=S37407

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868265382

Instrument : GC26A Begun : 07/03/18 07:02
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	184a001	IB				07/03/18 07:02	1.0		
002	184a002	X	CMARKER			07/03/18 07:30	1.0	1	
003	184a003	CCV	DSL_500			07/03/18 07:58	1.0	2	
004	184a004	CCV	MO_500			07/03/18 08:26	1.0	3	
005	184a005	MSS	300950-002	Soil	261040	07/03/18 11:26	1.0		
006	184a006	MS	QC938047	Soil	261040	07/03/18 11:54	1.0		
007	184a007	MSD	QC938048	Soil	261040	07/03/18 12:22	1.0		
008	184a008	SAMPLE	300950-001	Soil	261040	07/03/18 12:50	2.0		
009	184a009	SAMPLE	300950-003	Soil	261040	07/03/18 13:18	1.0		
010	184a010	SAMPLE	300950-004	Soil	261040	07/03/18 13:46	1.0		
011	184a011	SAMPLE	300950-005	Soil	261040	07/03/18 14:15	1.0		
012	184a012	SAMPLE	300950-006	Soil	261040	07/03/18 14:43	1.0		
013	184a013	SAMPLE	301193-003	Soil	261063	07/03/18 15:11	1.0		3:BUNKC:10-40=7900
014	184a014	IB				07/03/18 15:40	1.0		
015	184a015	BS	QC938089	Water	261052	07/03/18 16:08	1.0		
016	184a016	BSD	QC938090	Water	261052	07/03/18 16:36	1.0		
017	184a017	CCV	DSL_250			07/03/18 17:05	1.0	4	
018	184a018	X	CMARKER			07/03/18 17:33	1.0	1	
019	184a019	IB				07/03/18 18:01	1.0		
020	184a020	IB				07/03/18 18:29	1.0		
021	184a021	IB				07/03/18 18:57	1.0		
022	184a022	IB				07/03/18 19:26	1.0		
023	184a023	IB				07/03/18 19:54	1.0		
024	184a024	IB	CALIB			07/03/18 20:22	1.0		
025	184a025	ICAL	MO_50			07/03/18 20:50	1.0	5	
026	184a026	ICAL	MO_250			07/03/18 21:18	1.0	6	
027	184a027	ICAL	MO_500			07/03/18 21:47	1.0	7	
028	184a028	ICAL	MO_1000			07/03/18 22:15	1.0	8	
029	184a029	ICAL	MO_2500			07/03/18 22:44	1.0	9	
030	184a030	ICAL	MO_5000			07/03/18 23:12	1.0	9	
031	184a031	IB	CALIB			07/03/18 23:40	1.0		
032	184a032	ICV	MO_500			07/04/18 00:09	1.0	10	
033	184a033	IB	CALIB			07/04/18 00:37	1.0		
034	184a034	CMARKER	C8-C40			07/04/18 01:05	1.0	1	
035	184a035	IB	CALIB			07/04/18 01:33	1.0		

WA1 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 18.

CB1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 19 through 35.

Standards used: 1=S36439 2=S37195 3=S36833 4=S36285 5=S36946 6=S36948 7=S36949 8=S36951 9=S36926 10=S37407

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868268223

Instrument : GC26A Begun : 07/05/18 06:23
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	186a001	IB				07/05/18 06:23	1.0		
002	186a002	X	CMARKER			07/05/18 06:51	1.0	1	
003	186a003	CCV	DSL_500			07/05/18 07:20	1.0	2	
004	186a004	CCV	MO_500			07/05/18 07:48	1.0	3	
005	186a005	SAMPLE	301216-003	Soil	261112	07/05/18 09:14	10.0		
006	186a006	SAMPLE	301216-002	Soil	261112	07/05/18 09:42	5.0		
007	186a007	SAMPLE	301216-001	Soil	261112	07/05/18 10:10	5.0		
008	186a008	SAMPLE	301148-005	Soil	261112	07/05/18 10:38	1.0		
009	186a009	SAMPLE	301148-007	Soil	261112	07/05/18 11:07	1.0		
010	186a010	SAMPLE	301147-002	Soil	261113	07/05/18 11:35	1.0		
011	186a011	MSS	301147-003	Soil	261112	07/05/18 12:02	20.0		
012	186a012	SAMPLE	301147-004	Soil	261112	07/05/18 12:31	10.0		2:BUNKC:12-40=6200
013	186a013	SAMPLE	301148-008	Soil	261112	07/05/18 12:58	1.0		
014	186a014	CCV	DSL_1000			07/05/18 13:27	1.0	4	
015	186a015	CCV	MO_500			07/05/18 13:55	1.0	3	
016	186a016	X	CMARKER			07/05/18 14:23	1.0	1	
017	186a017	SAMPLE	301146-001	Soil	261160	07/05/18 18:07	1.0		
018	186a018	SAMPLE	301146-002	Soil	261160	07/05/18 18:35	1.0		
019	186a019	SAMPLE	301146-003	Soil	261160	07/05/18 19:03	1.0		
020	186a020	SAMPLE	301146-004	Soil	261160	07/05/18 19:31	1.0		
021	186a021	SAMPLE	301146-005	Soil	261160	07/05/18 19:59	1.0		
022	186a022	SAMPLE	301146-006	Soil	261160	07/05/18 20:27	1.0		
023	186a023	SAMPLE	301146-007	Soil	261160	07/05/18 20:55	1.0		
024	186a024	SAMPLE	301146-008	Soil	261160	07/05/18 21:23	1.0		
025	186a025	CCV	DSL_500			07/05/18 21:52	1.0	2	
026	186a026	CCV	MO_500			07/05/18 22:20	1.0	3	
027	186a027	X	CMARKER			07/05/18 22:48	1.0	1	

CB1 07/06/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 27.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868269619

Instrument : GC26A Begun : 07/06/18 05:39
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	187a001	IB				07/06/18 05:39	1.0		
002	187a002	X	CMARKER			07/06/18 06:52	1.0	1	
003	187a003	CCV	DSL_500			07/06/18 07:20	1.0	2	
004	187a004	CCV	MO_500			07/06/18 07:48	1.0	3	
005	187a005	CCV	BUNK_500			07/06/18 08:23	1.0	4	
006	187a006	SAMPLE	301146-021	Soil	261170	07/06/18 08:51	1.0		11:BUNKC:12-40=150000
007	187a007	SAMPLE	301146-020	Soil	261170	07/06/18 09:20	2.0		10:BUNKC:10-40=95000
008	187a008	SAMPLE	301146-015	Soil	261170	07/06/18 09:48	1.0		10:BUNKC:10-40=69000
009	187a009	SAMPLE	301146-021	Soil	261170	07/06/18 10:16	50.0		
010	187a010	SAMPLE	301119-002	Soil	261170	07/06/18 10:44	100.0		
011	187a011	SAMPLE	301119-003	Soil	261170	07/06/18 11:13	100.0		
012	187a012	SAMPLE	301146-020	Soil	261170	07/06/18 11:41	20.0		2:BUNKC:10-40=9600
013	187a013	SAMPLE	301119-001	Soil	261170	07/06/18 12:09	10.0		4:BUNKC:10-40=10000
014	187a014	SAMPLE	301119-004	Soil	261170	07/06/18 12:37	50.0		
015	187a015	IB				07/06/18 13:06	1.0		
016	187a016	SAMPLE	301146-015	Soil	261170	07/06/18 13:34	20.0		
017	187a017	CCV	DSL_1000			07/06/18 14:02	1.0	5	
018	187a018	CCV	MO_500			07/06/18 14:30	1.0	3	
019	187a019	X	CMARKER			07/06/18 14:59	1.0	1	
020	187a020	BLANK	QC938647	Soil	261199	07/06/18 17:55	1.0		
021	187a021	LCS	QC938648	Soil	261199	07/06/18 18:24	1.0		
022	187a022	MSS	301146-028	Soil	261199	07/06/18 18:52	1.0		
023	187a023	MS	QC938649	Soil	261199	07/06/18 19:20	1.0		
024	187a024	MSD	QC938650	Soil	261199	07/06/18 19:48	1.0		
025	187a025	SAMPLE	301206-001	Soil	261199	07/06/18 20:16	1.0		
026	187a026	SAMPLE	301221-002	Soil	261199	07/06/18 20:44	1.0		
027	187a027	SAMPLE	301221-003	Soil	261199	07/06/18 21:12	1.0		
028	187a028	SAMPLE	301221-005	Soil	261199	07/06/18 21:40	1.0		7:BUNKC:10-40=23000
029	187a029	SAMPLE	301221-006	Soil	261199	07/06/18 22:09	1.0		
030	187a030	SAMPLE	301203-001	Soil	261199	07/06/18 22:37	1.0		
031	187a031	SAMPLE	301203-002	Soil	261199	07/06/18 23:05	1.0		5:BUNKC:10-40=12000
032	187a032	IB				07/06/18 23:33	1.0		
033	187a033	CCV	DSL_500			07/07/18 00:01	1.0	2	
034	187a034	CCV	MO_500			07/07/18 00:29	1.0	3	
035	187a035	X	CMARKER			07/07/18 00:57	1.0	1	

CB1 07/09/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 35.

SAMPLE PREPARATION SUMMARY

Batch # : 261160
 Started By : ECI
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 05-JUL-2018 15:10
 Spike #2 ID : S37163

Analysis : TEH
 Finished By : ECI
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
301146-001		Soil	50.41	5	1	0.09919		.5				TEHM	
301146-002		Soil	49.8	5	1	0.1004		.5				TEHM	
301146-003		Soil	49.7	5	1	0.1006		.5				TEHM	
301146-004		Soil	49.68	5	1	0.1006		.5				TEHM	
301146-005		Soil	49.79	5	1	0.1004		.5				TEHM	
301146-006		Soil	50.43	5	1	0.09915		.5				TEHM	
301146-007		Soil	50.18	5	1	0.09964		.5				TEHM	
301146-008		Soil	49.72	5	1	0.1006		.5				TEHM	
301146-009		Soil	50.16	5	1	0.09968		.5				TEHM	
301146-010		Soil	50.3	5	1	0.0994		.5				TEHM	
301146-011		Soil	50.35	5	1	0.0993		.5				TEHM	
301146-012		Soil	49.53	5	1	0.1009		.5				TEHM	
301146-013		Soil	49.79	5	1	0.1004		.5				TEHM	
301207-005		Soil	49.67	5	1	0.1007		.5				TEHM	
301207-006		Soil	49.62	5	1	0.1008		.5				TEHM	
301207-007		Soil	49.74	5	1	0.1005		.5				TEHM	
301207-008		Soil	49.69	5	1	0.1006		.5				TEHM	
301207-009		Soil	50.33	5	1	0.09934		.5				TEHM	
301207-010		Soil	50.04	5	1	0.09992		.5				TEHM	
301207-011		Soil	50.34	5	1	0.09932		.5				TEHM	
QC938469	BLANK	Soil	50	5	1	0.1000		.5					
QC938470	LCS	Soil	50	5	1	0.1000		.5	1				
QC938471	MS	Soil	49.52	5	1	0.101		.5	1				
QC938472	MSD	Soil	49.81	5	1	0.1004		.5	1				See comment 1 below

Comment 1: darker in color than MSS, not homogenous

Analyst: CB1 Date: 07/06/18 Reviewer: EAH Date: 07/06/18

LIMS Batch No: 241160
 LIMS Analysis: TEHM
 Date Extracted: 7/5/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

LIM
 LI
 De

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
301146-001	D	50.41	5.0		
	2	49.80	5.0		
	3	49.70	5.0		
	4	49.68	5.0		
	5	49.79	5.0		
	6	50.43	5.0		
	7	50.18	5.0		
	8	49.72	5.0		
	9	50.16	5.0		
	10	50.30	5.0		
	11	50.35	5.0		
	12	49.53	5.0		
	13	49.79	5.0		
301207-005	B	49.67	5.0		
	6	49.62	5.0		
	7	49.74	5.0		
	8	49.69	5.0		
	9	50.33	5.0		
	10	50.04	5.0		MSS
	11	50.34	5.0		
MB QC938469	NA	50.00	5.0		
LCS	70	50.00	5.0		
MS	71	49.52	5.0		
MSD	72	49.81	5.0		darkener in color than MSS, not homogeneous RDI 7/6/18

MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-12 Has been calibrated? Yes No

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄
 0.5 mL of Surrogate solution was added to all samples
 1.0 mL of Spike solution was added to all spikes
 1:1 CH₂Cl₂ (lot# EMS068):Acetone (lot# FC176179) was added to all
 Solvent added at (time) 1510
 Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to final volume in boiling H₂O bath
 Relinquished to TEH Department

Mfg & Lot # / LIMS # / Time	Date/Initials
EM161285202	7/5/18 ECA
EM06170802	
S37162B	
S37163F	
EM067705202	

[Signature] 7/5/18
 Extraction Chemist / Date

Continued from page _____
 Continued on page _____

[Signature] 7/10/18
 Reviewed by / Date

SAMPLE PREPARATION SUMMARY

Batch # : 261170
 Started By : AS1
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 05-JUL-2018 15:35
 Spike #2 ID : S37163

Analysis : TEHM
 Finished By : AS1
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
301119-001		Soil	24.99	2.5	1	0.1000		.25				TEHM	limited sample, fuel smell
301119-002		Soil	24.71	2.5	1	0.1012		.25				TEHM	limited sample, fuel smell
301119-003		Soil	25.13	2.5	1	0.09948		.25				TEHM	limited sample, fuel smell
301119-004		Soil	25.11	2.5	1	0.09956		.25				TEHM	limited sample, fuel smell
301146-014		Soil	50.09	5	1	0.09982		.5				TEHM	fuel smell
301146-015		Soil	49.87	5	1	0.1003		.5				TEHM	fuel smell
301146-016		Soil	50.31	5	1	0.09938		.5				TEHM	MSS
301146-017		Soil	50.24	5	1	0.09952		.5				TEHM	Transferred weight from SA3306
301146-018		Soil	49.97	5	1	0.1001		.5				TEHM	Transferred weight from SA3307
301146-019		Soil	50.13	5	1	0.09974		.5				TEHM	Transferred weight from SA3308
301146-020		Soil	50.25	5	1	0.0995		.5				TEHM	fuel smell
301146-021		Soil	50.12	5	1	0.09976		.5				TEHM	fuel smell
301146-022		Soil	49.94	5	1	0.1001		.5				TEHM	Transferred weight from SA3311
301146-023		Soil	50.25	5	1	0.0995		.5				TEHM	organic matter
301146-024		Soil	50.17	5	1	0.09966		.5				TEHM	Transferred weight from SA3313
301146-025		Soil	50.29	5	1	0.09942		.5				TEHM	Transferred weight from SA3314
301164-007		Soil	50.06	5	1	0.09988		.5				TEHM	Transferred weight from SA3299
301164-010		Soil	50.27	5	1	0.09946		.5				TEHM	Transferred weight from SA3300
301225-001		Soil	25.12	2.5	1	0.09952		.25				TEHM	See comment 1 below
301275-001		Soil	50.4	5	1	0.09921		.5			3630	TEHM	See comment 2 below
QC938515	BLANK	Soil	50	5	1	0.1000		.5			3630	TEHM	
QC938516	LCS	Soil	50	5	1	0.1000		.5	1		3630	TEHM	
QC938517	MS	Soil	50.16	5	1	0.09968		.5	1			TEHM	Transferred weight from SA3304
QC938518	MSD	Soil	50.21	5	1	0.09958		.5	1			TEHM	Transferred weight from SA3305

Comment 1: comp of 1225-001 A&B at 25g each, limited sample, very wet, out of hold ok per client
 Comment 2: Prepped 05-JUL-2018 18:42; A/O AS1 for ECI

CB1 07/06/18 : Matrix spikes QC938517, QC938518 (batch 261170) were not reported because the parent sample required a dilution that would have diluted out the spikes.

Analyst: CB1 Date: 07/06/18 Reviewer: EAH Date: 07/06/18

LIMS Batch No: 261170
 LIMS Analysis: TEHM
 Date Extracted: 7/5/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
30119-001	B	transferred	<input type="checkbox"/> 5.0 <input checked="" type="checkbox"/> 2.5		limited sample; fuel smell *
2			<input type="checkbox"/> 5.0 <input checked="" type="checkbox"/> 2.5		| *
3			<input type="checkbox"/> 5.0 <input checked="" type="checkbox"/> 2.5		| *
4			<input type="checkbox"/> 5.0 <input checked="" type="checkbox"/> 2.5		| *
5 301164-007	B		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
10			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
301225-001	A+B	25.12	<input type="checkbox"/> 5.0 <input checked="" type="checkbox"/> 2.5		* Comp of A+B @ 25g ca. limited sample
301146-014	D	transferred	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		fuel smell * out of batch ok per client
15			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
16			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		MSS
17			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
18			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
19			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
20			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		T
15 21			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		fuel smell
22			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
23			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		organic matter
24			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
25			<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
20 26			<input type="checkbox"/> 5.0 <input type="checkbox"/> _____		not in batch MS
MBQC 938515	NA	50.00	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____	X	
LCS	6	50.00	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____	X	
MS	7	transferred	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
MSD	8		<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____		
301275-001	F	50.50g	<input checked="" type="checkbox"/> 5.0 <input type="checkbox"/> _____	X	A/D ECI 1842 7/5/2018

MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-15 Has been calibrated? Yes No

Mfg & Lot # / LIMS # / Time Date/Initials

Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples

0.25/0.5 mL of Surrogate solution was added to all samples

1.0 mL of Spike solution was added to all spikes

1:1 CH2Cl2 (lot# EMSS068): Acetone (lot# FC176179) was added to all

Solvent added at (time)


Sonicated 3 times w/ >=100mL 1:1 DCM:Acetone

Extracts filtered through baked, rinsed powdered Na2SO4


Concentrated to final volume in boiling H2O bath

Relinquished to TEH Department

EM167285202	ASI 7/5/18
EMN677C507	|
S37162B	|
S37163F	|
✓	
1535/1842	|
✓	
EM0677C502	|
✓	
✓	


 Extraction Chemist / Date 7/5/18

Continued from page _____
 Continued on page _____


 Reviewed by / Date 7/6/18

SAMPLE PREPARATION SUMMARY

Batch # : 261199
 Started By : ALE
 Method : 3550C
 Spike #1 ID : S37162

Prep Date : 06-JUL-2018 13:49
 Spike #2 ID : S37163

Analysis : TEHM
 Finished By : ALE
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
301146-026		Soil	49.66	5	1	0.1007		.5				TEHM	Transferred weight from SA3325
301146-027		Soil	50.08	5	1	0.09984		.5				TEHM	Transferred weight from SA3332
301146-028		Soil	49.92	5	1	0.1002		.5				TEHM	Transferred weight from SA3329
301146-029		Soil	50.15	5	1	0.0997		.5				TEHM	Transferred weight from SA3333
301146-030		Soil	49.98	5	1	0.1000		.5				TEHM	Transferred weight from SA3334
301146-031		Soil	49.62	5	1	0.1008		.5				TEHM	Transferred weight from SA3335
301203-001		Soil	49.66	5	1	0.1007		.5				TEH	Transferred weight from SA3336
301203-002		Soil	49.85	5	1	0.1003		.5				TEH	Transferred weight from SA3337
301206-001		Soil	49.6	5	1	0.1008		.5				TEHM	Transferred weight from SA3328
301221-002		Soil	50.24	5	1	0.09952		.5				TEHM	Transferred weight from SA3340
301221-003		Soil	49.85	5	1	0.1003		.5				TEHM	Transferred weight from SA3338
301221-005		Soil	49.87	5	1	0.1003		.5				TEHM	Transferred weight from SA3341
301221-006		Soil	49.9	5	1	0.1002		.5				TEHM	Transferred weight from SA3339
301276-001		Soil	49.72	5	1	0.1006		.5				TEHM	Transferred weight from SA3326
301276-003		Soil	50.21	5	1	0.09958		.5				TEHM	Transferred weight from SA3327
301297-001		Soil	50.11	5	1	0.09978		.5			3630C	TEHM	See comment 1 below
QC938647	BLANK	Soil	50	5	1	0.1000		.5			3630C	TEHM	
QC938648	LCS	Soil	50	5	1	0.1000		.5	1		3630C	TEHM	
QC938649	MS	Soil	49.71	5	1	0.1006		.5	1			TEHM	Transferred weight from SA3330
QC938650	MSD	Soil	50.05	5	1	0.0999		.5	1			TEHM	Transferred weight from SA3331

Comment 1: Prepped 06-JUL-2018 14:00; A/O RD1

Analyst: WA1

Date: 07/09/18

Reviewer: EAH

Date: 07/09/18

LIMS Batch No: 261199
 LIMS Analysis: TEHM
 Date Extracted: 7/6/18

Extraction Method:
 EPA 3550C Sonication

Cleanup Method (if necessary):
 EPA 3630 Silica Gel

LI
I
I

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
301146-026	D	transferred	✓ 5.0 <input type="checkbox"/>		
	27		✓ 5.0 <input type="checkbox"/>		
	28		✓ 5.0 <input type="checkbox"/>		MSS
	29		✓ 5.0 <input type="checkbox"/>		
	30		✓ 5.0 <input type="checkbox"/>		
	31		✓ 5.0 <input type="checkbox"/>		
301203-001	F		✓ 5.0 <input type="checkbox"/>		
	2		✓ 5.0 <input type="checkbox"/>		
301206-001	B		✓ 5.0 <input type="checkbox"/>		
301276-001	A		✓ 5.0 <input type="checkbox"/>		
	3		✓ 5.0 <input type="checkbox"/>		
MB QC 938647	N/A	50.00	✓ 5.0 <input type="checkbox"/>	X	
LCS	48	N/A 50.00	✓ 5.0 <input type="checkbox"/>	X	
MS	49	D transferred	✓ 5.0 <input type="checkbox"/>		
MSD	50		✓ 5.0 <input type="checkbox"/>		
301221-002	H		✓ 5.0 <input type="checkbox"/>		
	3		✓ 5.0 <input type="checkbox"/>		
	5		✓ 5.0 <input type="checkbox"/>		
	6		✓ 5.0 <input type="checkbox"/>		
301297-001	B	50.11	✓ 5.0 <input type="checkbox"/>	X	A=RP1 7/6/18 @ 1400
			<input type="checkbox"/> 5.0 <input type="checkbox"/>		
			<input type="checkbox"/> 5.0 <input type="checkbox"/>		
			<input type="checkbox"/> 5.0 <input type="checkbox"/>		
			<input type="checkbox"/> 5.0 <input type="checkbox"/>		
			<input type="checkbox"/> 5.0 <input type="checkbox"/>		

MS/MSD not included due to: insufficient volume, or other (reason)

Balance ID: B-15 Has been calibrated? Yes No

Baked, solvent-rinsed granular Na₂SO₄ weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed powdered Na₂SO₄
 • 0.5 mL of Surrogate solution was added to all samples
 • 1.0 mL of Spike solution was added to all spikes
 1:1 CH₂Cl₂ (lot# EM58068): Acetone (lot# FC17254) was added to all
 Solvent added at (time) 13:49 / 1400
 • Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to final volume in boiling H₂O bath
 Relinquished to TEH Department

Mfg & Lot # / LIMS # / Time	Date/Initials
EM161285202 7-5-18	ALE 7/6/18
EM0677CS02 6-28-18	
S37162 B	
S37163 F	
✓ 13:49 / 1400	
EM0677CS02 6-28-18	
✓	

AW 7/6/18
 Extraction Chemist / Date

Continued from page 7
 Continued on page _____

WJM 7/9/18
 Reviewed by / Date

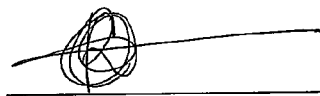
Prep Chemist: CRC
 Cleanup Date: 07/09/18

Benchbook # **BK 4267**
 Page 41


Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments	
301297-001	261199	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>		
MB QC938647	↓	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>		
LGS ↓ 8	↓	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	/	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>		WMA 7/9/18

Extracts were cleaned up using C&T assembled 1.0 g columns
 Extracts were cleaned up using - g cartridges
 Extracts were eluted with 4.0 mL CH₂Cl₂
 Concentrated to volumes as noted above

Mfg & Lot# / Time / Program	Initials / Date
Y040040	CRC 7/9/18
-	↓
EM 58068	↓

 07/09/18
Extraction Chemist / Date

Continued from page f
 Continued on page f

 7/9/18
Reviewed by / Date

Laboratory Job Number 301146

ANALYTICAL REPORT

Wet Chemistry

Matrix: Soil

Percent Moisture Summary Report

Batch: 261118
 Date: 07/04/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
301146-021	11.37	17.92	16.99	86	14
301146-022	11.23	19.56	18.13	83	17
301146-023	11.32	18.56	17.66	88	12
301146-024	11.43	18.86	17.67	84	16
301146-025	11.29	18.47	17.42	85	15
301146-026	11.12	17.07	16.19	85	15
301146-027	10.86	19.08	18.07	88	12
301146-028	10.94	17.10	16.20	85	15
301146-029	11.11	17.40	16.45	85	15
301146-030	11.07	17.16	16.16	84	16
301146-031	11.03	17.51	16.59	86	14
301238-001	11.18	16.76	13.99	50	50
301238-002	11.34	17.51	14.44	50	50
301238-003	10.91	16.85	13.03	36	64
301238-004	11.35	16.85	13.61	41	59
301243-001	11.35	18.15	17.02	83	17
QC938337	11.28	17.62	16.83	88	12
of 301146-023			RPD:	0.0%	0.2%

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

LIMS Batch #: 261118
 Date: 7-4-18

Page: 72
 Benchbook#: **BK 4277**

Balance ID: B-13
 calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLK	35	11.31	∅	11.31	
301146-021 D	71	11.37	17.92	16.99	
-022	51	11.23	19.56	18.13	
-023	5	11.32	18.56	17.66	
-024	77	11.43	18.86	17.67	
-025	26	11.29	18.47	17.42	
-026	1	11.12	17.07	16.19	
-027	63	10.86	19.08	18.07	
-028	8	10.94	17.10	16.20	
-029	78	11.11	17.40	16.45	
-030	24	11.07	17.16	16.16	
↓ -031 ↓	14	11.03	17.51	16.59	
301238-001 B	80	11.18	16.76	13.99	
-002	16	11.34	17.51	14.44	
-003	20	10.91	16.85	13.03	
↓ -004 ↓	94	11.35	16.85	13.61	
301243-001 F	81	11.35	18.15	17.02	
301146-023 D	68	11.28	17.62	16.83	SDVP
MN 7-5-18					

	In	Out	In-2	Out-2
Date:	7-4-18	7-5-18		
Time:	0550	0100		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MN	MN		

MN 7-4-18
Analyst Initials / Date

Reviewed Online / See LIMS

DATE	0.20	SET#	500.9	SET#	INITIALS
6-10-18	0.20	40417	499.94	28659	VV
6-11-18	0.20	40417	499.93	28659	MV
6-12-18	0.20	40417	499.95	28659	MV
6-13-18	0.20	40417	499.94	28659	MV
6-14-18	0.20	40417	499.93	28659	VV
6-15-18	0.20	40417	499.93	28659	MV
6-16-18	0.20	40417	499.94	28659	MV
6-17-18	0.20	40417	499.95	28659	VV
6-18-18	0.20	40417	499.96	28659	MV
6-19-18	0.20	40417	499.95	28659	MV
6-20-18	0.20	40417	499.93	28659	MV
6-21-18	0.20	40417	499.93	28659	MV
6-22-18	0.20	40417	499.94	28659	MV
6-23-18	0.20	40417	499.93	28659	MV
6-26-18	0.20	40417	499.96	28659	MV
6-27-18	0.20	40417	499.97	28659	MV
6-28-18	0.20	40417	499.95	28659	MV
6-29-18	0.20	40417	499.95	28659	MV
6-30-18	0.20	40417	499.93	28659	MV
7-3-18	0.20	40417	499.97	28659	MV
7-4-18	0.20	40417	499.96	28659	MV
7-5-18	0.20	40417	499.96	28659	MV

Continued on Page

Read and Understood By

Signed

Date

Signed

Date

Percent Moisture Summary Report

Batch: 261117
 Date: 07/04/18
 Method: CLP SOW 390
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
301146-001	11.34	16.75	16.14	89	11
301146-002	11.04	17.47	16.43	84	16
301146-003	11.04	17.25	16.26	84	16
301146-004	11.25	19.95	18.53	84	16
301146-005	11.26	19.14	17.86	84	16
301146-006	11.28	16.88	16.16	87	13
301146-007	11.36	17.33	16.52	86	14
301146-008	11.20	17.12	16.28	86	14
301146-009	11.06	16.86	16.06	86	14
301146-010	11.28	17.18	16.19	83	17
301146-011	11.28	16.81	15.90	84	16
301146-012	10.95	16.77	15.89	85	15
301146-013	10.94	18.86	17.76	86	14
301146-014	11.33	17.29	16.38	85	15
301146-015	11.33	17.67	16.81	86	14
301146-016	10.87	17.53	16.60	86	14
301146-017	11.34	17.36	16.42	84	16
301146-018	11.38	18.48	17.33	84	16
301146-019	11.35	17.18	16.16	83	17
301146-020	11.12	17.46	16.60	86	14
QC938336	11.05	17.30	16.45	86	14
of 301146-020			RPD:	0.0%	0.3%

Moisture LOG

Enthalpy Analytical LLC - Berkeley

rev.3.2, July 2017

LIMS Batch #: 261117
 Date: 7-4-18

Page: 71
 Benchbook#: BK 4277

Balance ID: B-13
 calibration has been checked? Yes No

Sample # / Letter	Dish #	Dish Weight (g)	Sample + Dish Wt (g)	Final Weight (g)	*Comments
BLK	6	11.19	0	11.18	
3D1146-001 D	50	11.34	16.75	16.14	
-002	64	11.04	17.47	16.43	
-003	60	11.04	17.25	16.26	
-004	52	11.25	19.95	18.53	
-005	22	11.26	19.14	17.86	
-006	9	11.28	16.88	16.16	
-007	74	11.36	17.33	16.52	
-008	18	11.20	17.12	16.28	
-009	49	11.06	16.86	16.06	
-010	70	11.28	17.18	16.19	
-011	61	11.28	16.81	15.90	
-012	7	10.95	16.77	15.89	
-013	53	10.94	18.86	17.76	
-014	85	11.33	17.29	16.38	
-015	2	11.33	17.67	16.81	
-016	12	10.87	17.53	16.60	
-017	41	11.34	17.36	16.42	
-018	29	11.38	18.48	17.33	
-019	86	11.35	17.18	16.16	
-020	79	11.12	17.46	16.60	
SDUP ↓ -020 ↓	55	11.05	17.30	16.45	
					MN 7-5-18

	In	Out	In-2	Out-2
Date:	7-4-18	7-5-18		
Time:	0550	0100		
Min/Max Range (°C)	104	104		
Thermometer ID:	P49096	P49096		
Weighed by:	MN	MN		

MN 7-5-18

MN 7-4-18
 Analyst Initials / Date

Reviewed Online / See LIMS

DATE	0.2g	SET#	500g	SET#	INITIALS
6-10-18	0.20	40417	499.94	28659	VV
6-11-18	0.20	40417	499.93	28659	MV
6-12-18	0.20	40417	499.95	28659	MV
6-13-18	0.20	40417	499.94	28659	AV
6-14-18	0.20	40417	499.93	28659	AV
6-15-18	0.20	40417	499.93	28659	AV
6-16-18	0.20	40417	499.94	28659	AV
6-17-18	0.20	40417	499.95	28659	VV
6-18-18	0.20	40417	499.96	28659	AV
6-19-18	0.20	40417	499.95	28659	AV
6-20-18	0.20	40417	499.93	28659	AV
6-21-18	0.20	40417	499.93	28659	AV
6-22-18	0.20	40417	499.94	28659	AV
6-23-18	0.20	40417	499.93	28659	AV
6-26-18	0.20	40417	499.96	28659	AV
6-27-18	0.20	40417	499.97	28659	AV
6-28-18	0.20	40417	499.95	28659	AV
6-29-18	0.20	40417	499.95	28659	AV
6-30-18	0.20	40417	499.93	28659	AV
7-3-18	0.20	40417	499.97	28659	AV
7-4-18	0.20	40417	499.96	28659	AV
7-5-18	0.20	40417	499.96	28659	AV

Continued on Page

Read and Understood By

Signed

Date

Signed

Date



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 301314

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Avenue
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	301314-001
BR11-1GW03	301314-002
BR11-1GW02	301314-003
TB07062018-01	301314-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____


Mike Dahlquist
Project Manager
mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

Date: 07/17/2018

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE
TPH-PURGEABLES AND/OR BTXE BY GC (EPA 8015B AND EPA 8021B)

Laboratory number: 301314
Client: TRC Solutions
Project: 285830.02.01
Location: Riley Avenue
Request Date: 07/06/18
Samples Received: 07/06/18

This data package contains sample and QC results for four water samples, requested for the above referenced project on 07/06/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):

Ethylbenzene and m,p-xylenes were detected between the MDL and the RL in the method blank for batch 261329; these analytes were not detected in samples at or above the RL.

Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 261354; this analyte was not detected in samples at or above the RL.

TB07062018-01 (lab # 301314-004) was analyzed with more than 1 mL of headspace in the VOA vial.

No other analytical problems were encountered.

Chain of Custody

Enthalpy Analytical LLC
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900 Phone
 (510) 486-0532 Fax

CHAIN OF CUSTODY

Page 1 of 1
 Chain of Custody # : _____

C&T LOGIN # 301314

Project No: 285830.02.01
 Project Name: Riley Avenue KL
 EDD Format: TRC EQUIS Rpt Level: III IV
 Turnaround Time: RUSH Standard
 Sampler: Kevin Li, Nate Berube
 Report To: Alfonso Ang
 Company: TRC Solutions
 Telephone: 415-786-7830
 Email: aang@trcsolutions.com

Lab No.	Sample ID.	Sampling		Matrix		Chemical Preservative					
		Date	Time	Water	Soil	# of Containers	HCl	H ₂ SO ₄	HNO ₃	NaOH	None
	BR11-GW01	7/6/18	15:06	X		8	X				
	BR11-GW03	7/6/18	11:40	X		8	X				
	BR11-GW02	7/6/18	16:35	X		8	X				
	1307062018-01	7/6/18	16:38	X		1					X

Analytical Request											
X	X	X	X	X	X	X	X	X	X	X	X
TPH-g, TPH-d (No SGC), TPH-mo. - 8015											
BTEX - EPA 8021											
PAHs - EPA 8270-SIM											
Total Dissolved Solids (TDS) - SM 2540C											
TPH-9 + BTEX - EPA 8015 + 8021											

Notes: Include Geotracker EDF
 All results to be reported on a dry weight basis. No silica gel cleanup
Please email cc the following:
 jhanzel-durbin@trcsolutions.com, kli@trcsolutions.com
 mpatinkin@trcsolutions.com, nberube@trcsolutions.com
 smilican@trcsolutions.com

Report Level IV data packages and include chromatographs

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
<i>[Signature]</i>	7/6/18 16:53	<i>[Signature]</i>	7-6 1653
<i>[Signature]</i>	7-6 1843	<i>[Signature]</i>	7-6-18 1845

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 301314 Client: TRE
 Date Received: 7-6-18 Project: Riley Ave

Section 2: Samples received in a cooler? Yes, how many? 1 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun # A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 7-6-18 By (print) [Signature] (sign) [Signature]
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important: Notify PM if temperature exceeds 6°C or arrive frozen.**
 Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 2.8, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?		<input checked="" type="checkbox"/>	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?			<input checked="" type="checkbox"/>
Did you change the hold time in LIMS for preserved terracores?			<input checked="" type="checkbox"/>
Are bubbles > 6mm absent in VOA samples?		<input checked="" type="checkbox"/>	
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5: YES NO N/A
 Are the samples appropriately preserved? (if N/A, skip the rest of section 5)
 Did you check preservatives for all bottles for each sample?
 Did you document your preservative check?
 pH strip lot# _____, pH strip lot# _____, pH strip lot# _____
 Preservative added:
 H2SO4 lot# _____ added to samples _____ on/at _____
 HCL lot# _____ added to samples _____ on/at _____
 HNO3 lot# _____ added to samples _____ on/at _____
 NaOH lot# _____ added to samples _____ on/at _____

Section 6:
 Explanations/Comments: 4/1 VOAs arrived with bubbles for sample 4

Date Logged in 7-6-18 By (print) TRE (sign) [Signature]
 Date Labeled 7-7-18 By (print) [Signature] (sign) [Signature]

Results & QC Summary

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01		
Matrix:	Water	Sampled:	07/06/18
Units:	ug/L	Received:	07/06/18
Diln Fac:	1.000		

Field ID: TB07062018-01
 Type: SAMPLE

Lab ID: 301314-004

Analyte	Result	RL	MDL	Batch#	Analyzed	Analysis
Gasoline C7-C12	20 J	50	11	261354	07/12/18	EPA 8015B
Benzene	ND	0.50	0.10	261329	07/11/18	EPA 8021B
Toluene	ND	0.50	0.11	261329	07/11/18	EPA 8021B
Ethylbenzene	ND	0.50	0.10	261329	07/11/18	EPA 8021B
m,p-Xylenes	ND	0.50	0.14	261329	07/11/18	EPA 8021B
o-Xylene	ND	0.50	0.11	261329	07/11/18	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	96	79-120	261354	07/12/18	EPA 8015B
Bromofluorobenzene (PID)	92	71-127	261329	07/11/18	EPA 8021B

Type: BLANK
 Lab ID: QC939175

Batch#: 261329
 Analyzed: 07/11/18

Analyte	Result	RL	MDL	Analysis
Benzene	ND	0.50	0.10	EPA 8021B
Toluene	ND	0.50	0.11	EPA 8021B
Ethylbenzene	0.15 J	0.50	0.10	EPA 8021B
m,p-Xylenes	0.25 J	0.50	0.13	EPA 8021B
o-Xylene	ND	0.50	0.11	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	93	79-120	EPA 8015B
Bromofluorobenzene (PID)	88	71-127	EPA 8021B

Type: BLANK
 Lab ID: QC939279

Batch#: 261354
 Analyzed: 07/12/18

Analyte	Result	RL	MDL	Analysis
Gasoline C7-C12	13 J	50	11	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	87	79-120	EPA 8015B
Bromofluorobenzene (PID)	83	71-127	EPA 8021B

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8021B
Matrix:	Water	Batch#:	261329
Units:	ug/L	Analyzed:	07/11/18
Diln Fac:	1.000		

Type: BS Lab ID: QC939171

Analyte	Spiked	Result	%REC	Limits
Benzene	10.00	10.74	107	80-120
Toluene	10.00	10.48	105	80-120
Ethylbenzene	10.00	10.52	105	79-120
m,p-Xylenes	10.00	10.38	104	79-120
o-Xylene	10.00	9.952	100	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	90	71-127

Type: BSD Lab ID: QC939172

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	10.00	10.52	105	80-120	2	20
Toluene	10.00	10.25	102	80-120	2	20
Ethylbenzene	10.00	10.34	103	79-120	2	20
m,p-Xylenes	10.00	10.17	102	79-120	2	20
o-Xylene	10.00	9.900	99	80-120	1	20

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	90	71-127

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC939276	Batch#:	261354
Matrix:	Water	Analyzed:	07/12/18
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	909.9	91	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	80	79-120

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02.01	Analysis:	EPA 8015B
Field ID:	BR11-1GW01	Batch#:	261354
MSS Lab ID:	301314-001	Sampled:	07/06/18
Matrix:	Water	Received:	07/06/18
Units:	ug/L	Analyzed:	07/13/18
Diln Fac:	1.000		

Type: MS Lab ID: QC939285

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	15.13	2,000	1,874	93	80-120

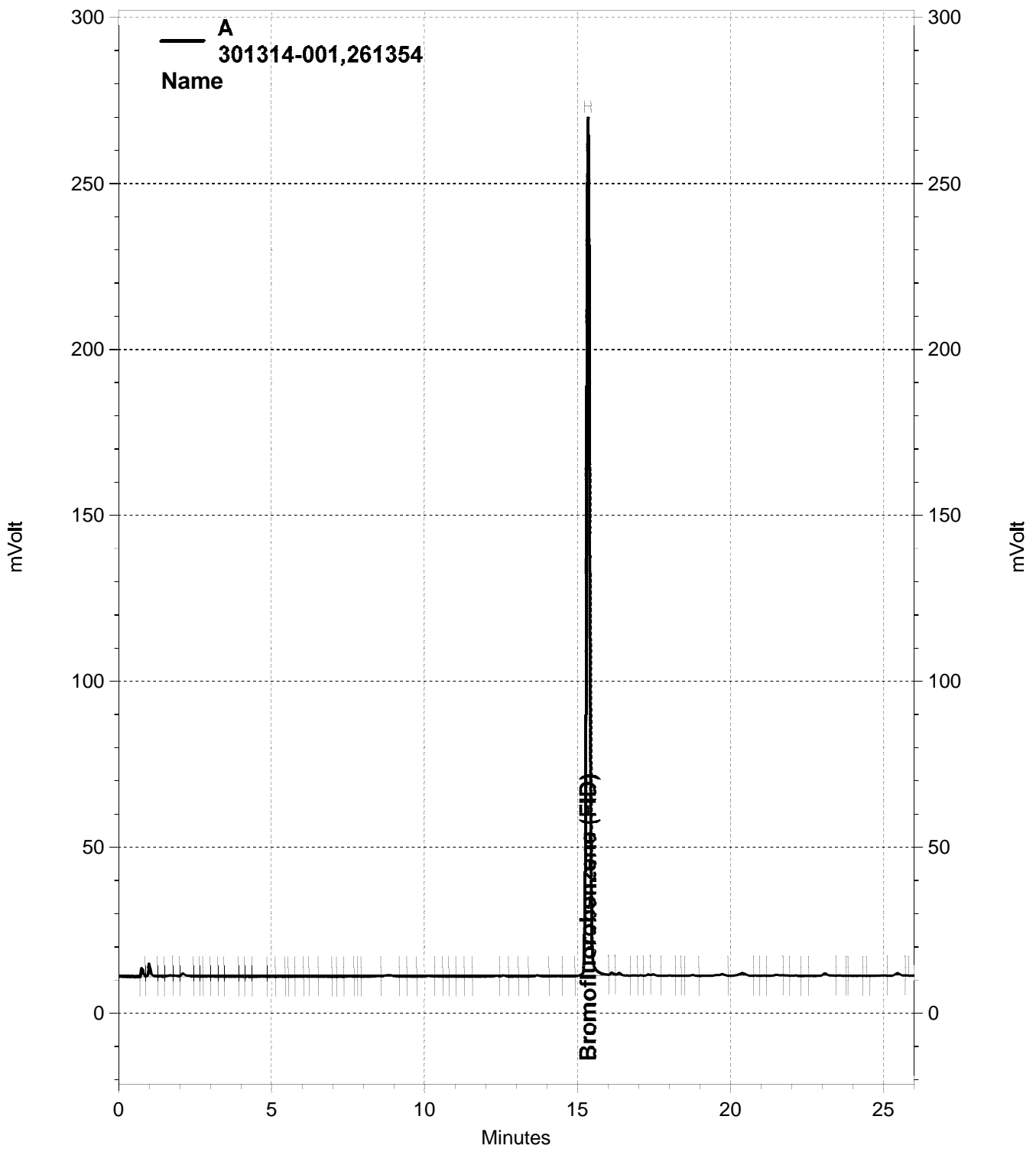
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	79-120

Type: MSD Lab ID: QC939286

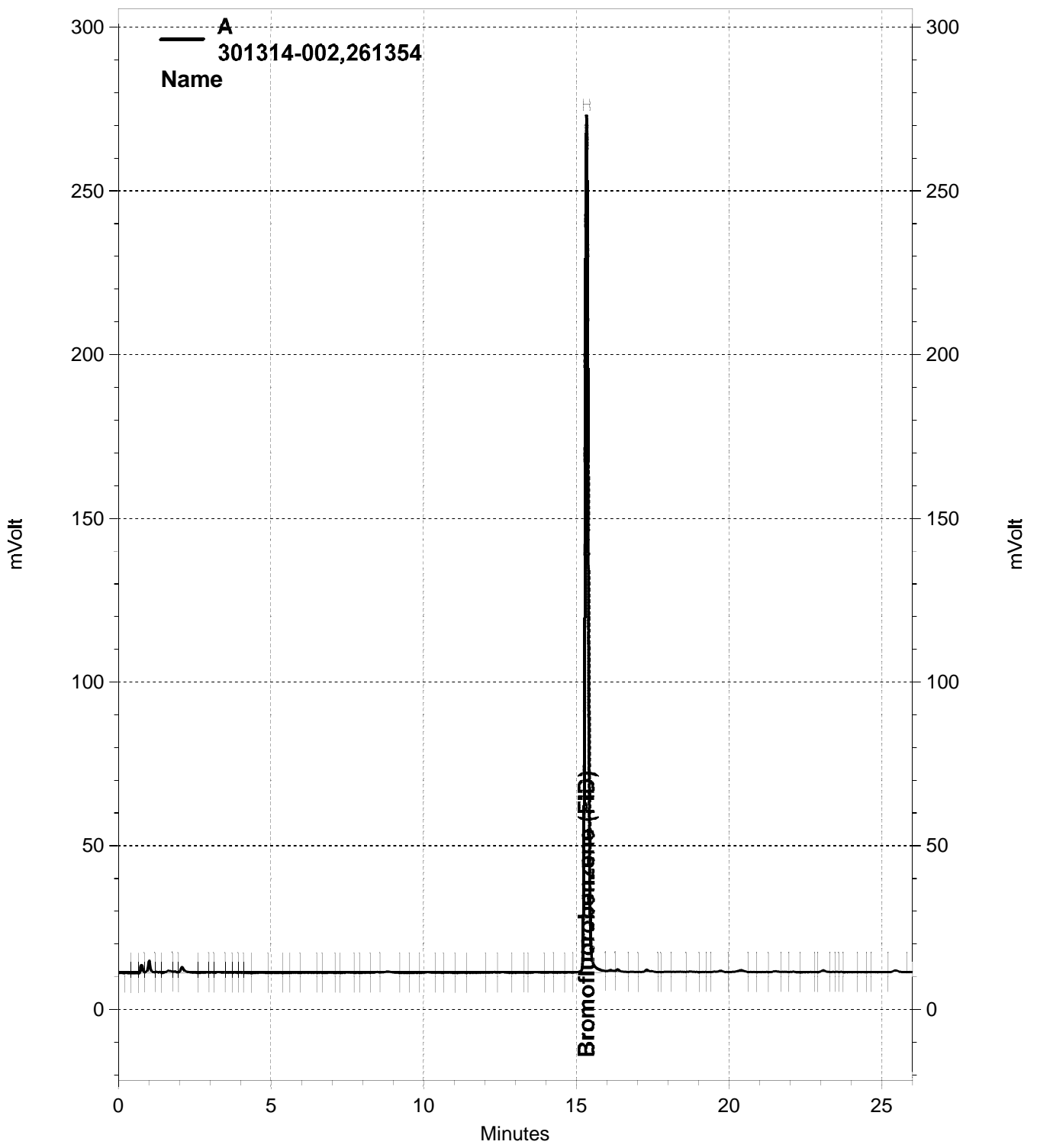
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,877	93	80-120	0	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	79-120

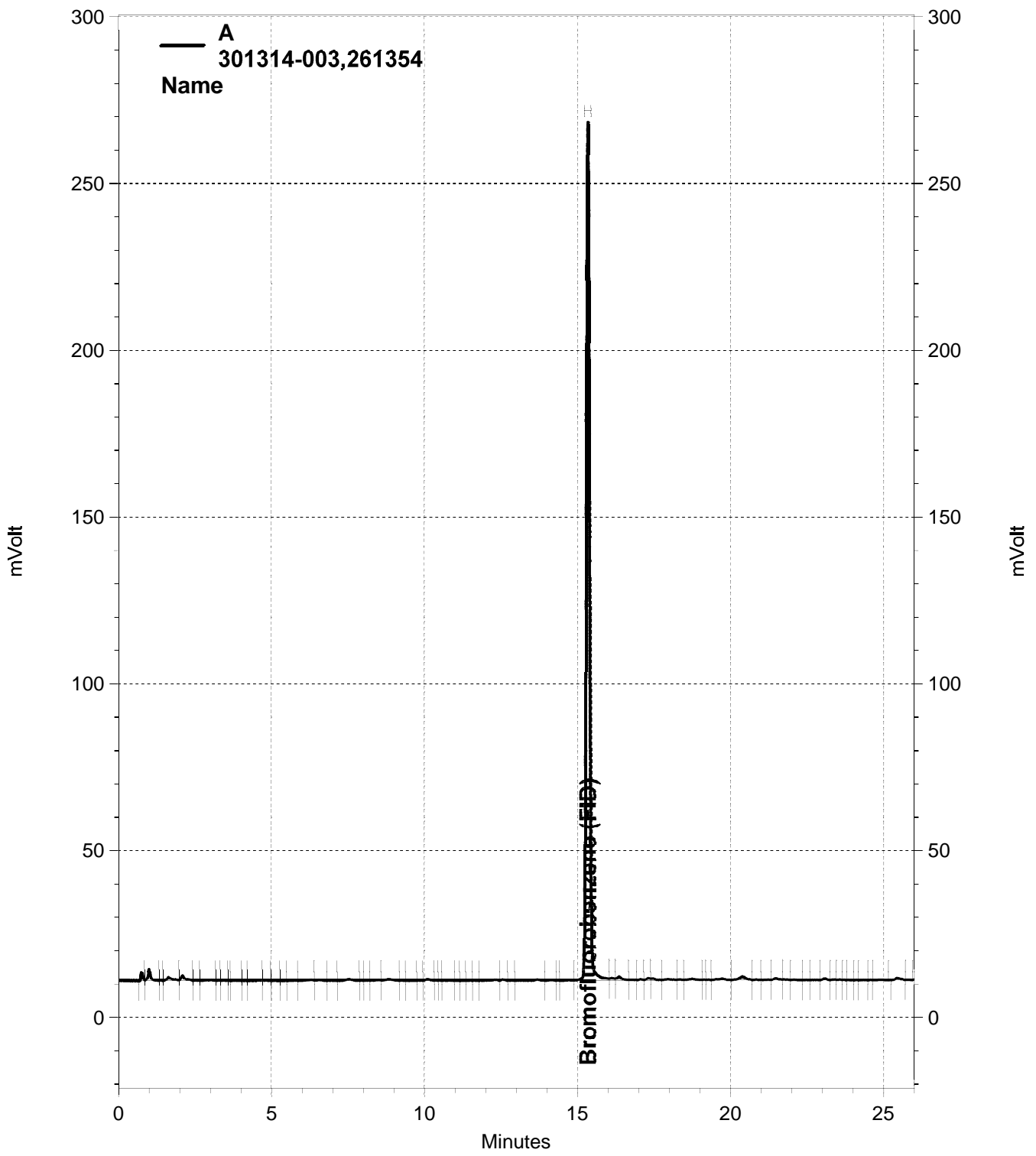
RPD= Relative Percent Difference



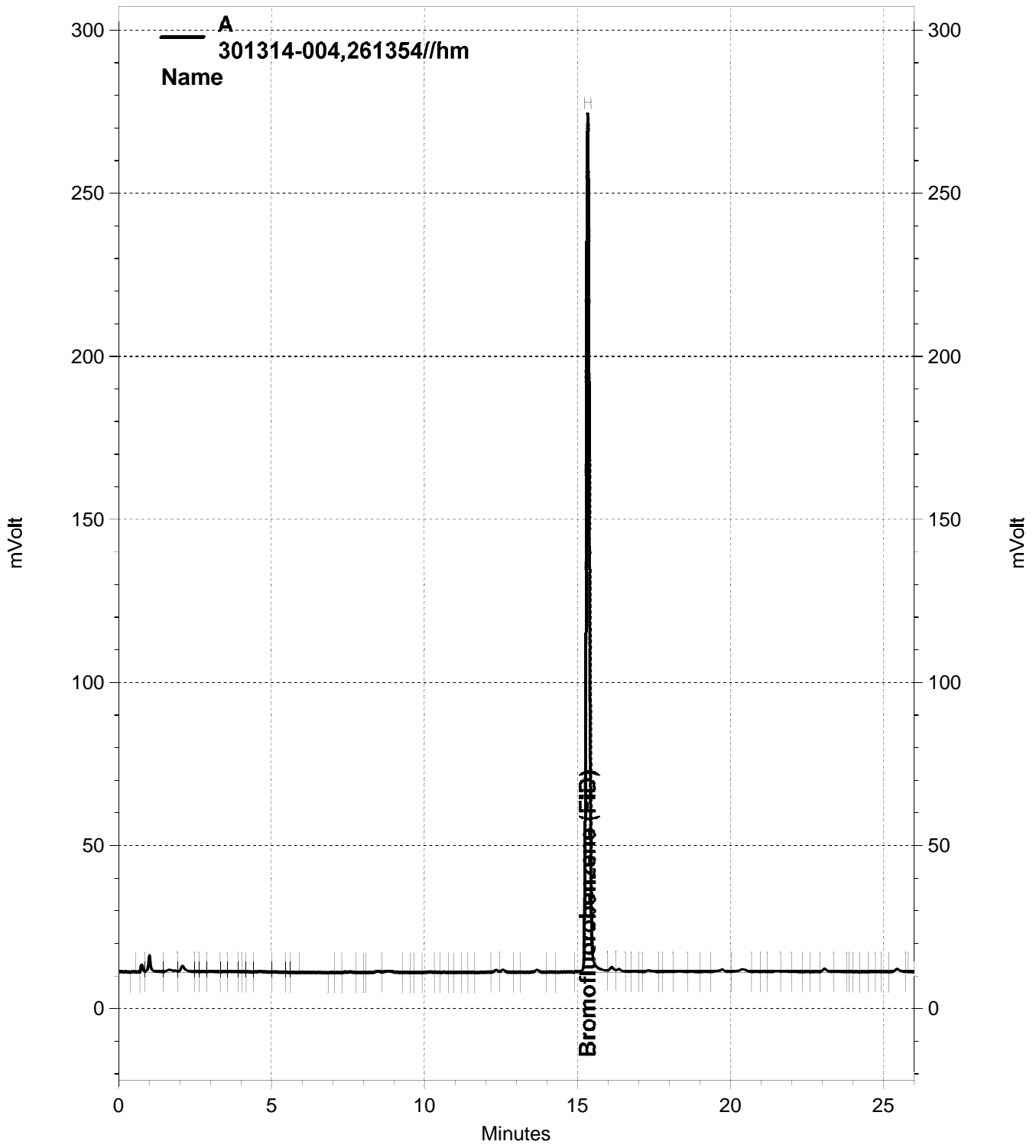
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-017, A



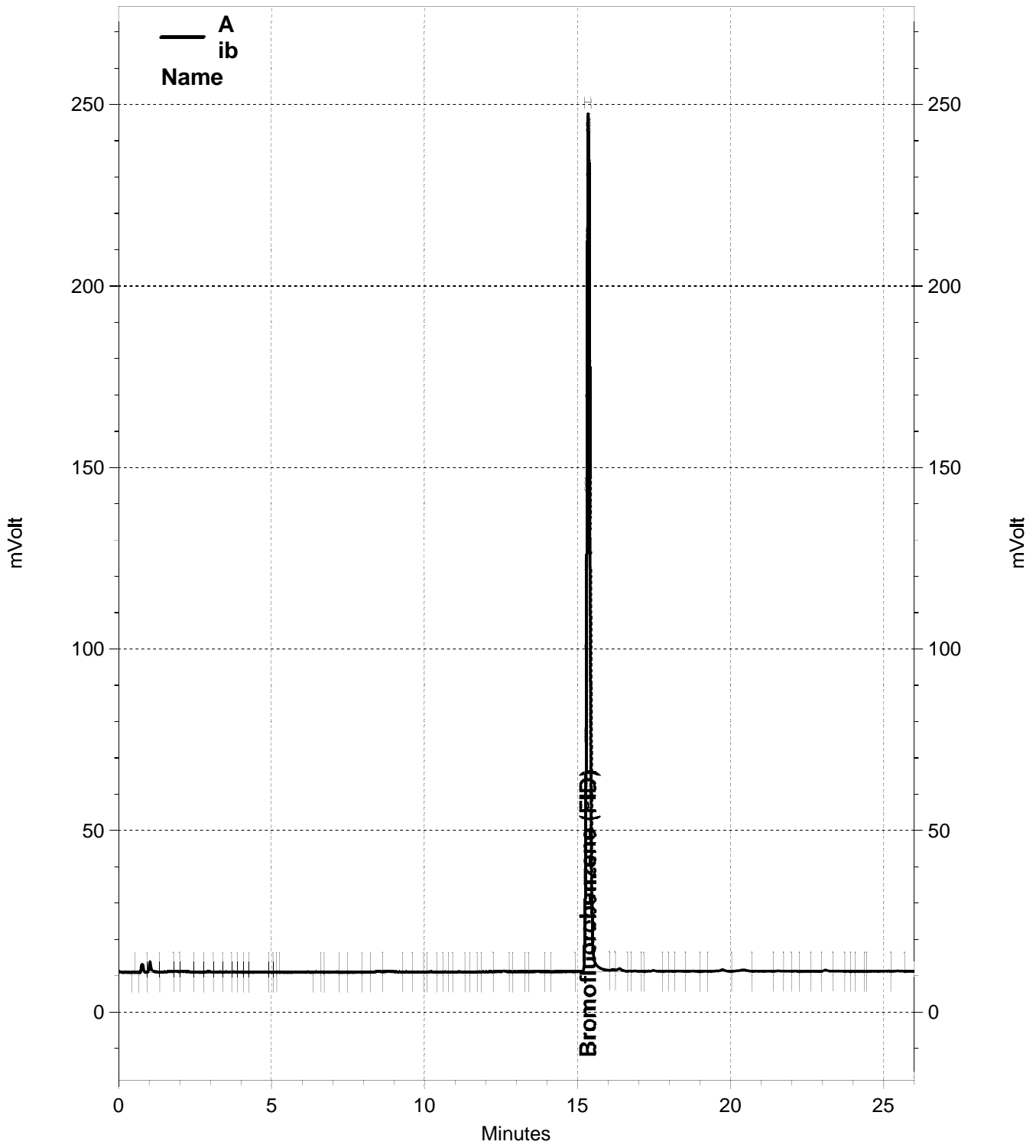
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-018, A



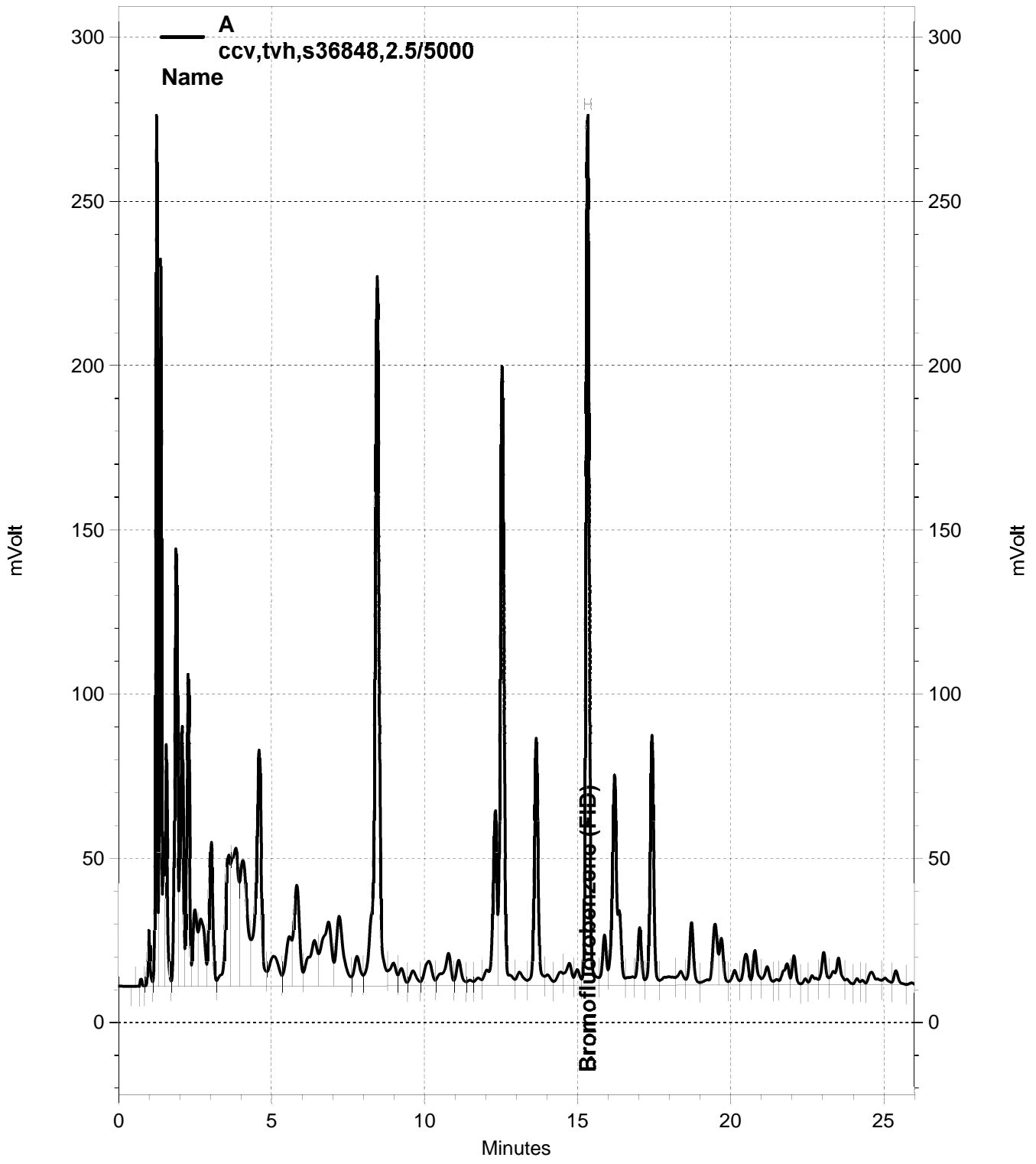
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-019, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-016, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-008, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-002, A

ENTHALPY INITIAL CALIBRATION FOR 301314 GCVOA Water: EPA 8021B

Inst : GC07
 Calnum : 328176634001
 Units : ng

Name : MBTXE_122
 Date : 02-MAY-2018 22:56
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_012	328176634012	BTXE_1	02-MAY-2018 22:56	S35889 (1000X), S36233 (5000X)
L2	122_013	328176634013	MBTXE_2	02-MAY-2018 23:34	S36294 (1250X), S36233 (5000X)
L3	122_014	328176634014	MBTXE_3	03-MAY-2018 00:12	S36294 (500X), S36233 (5000X)
L4	122_015	328176634015	MBTXE_4	03-MAY-2018 00:50	S36294 (125X), S36233 (5000X)
L5	122_016	328176634016	MBTXE_5	03-MAY-2018 01:28	S35887 (1000X), S36233 (5000X)
L6	122_017	328176634017	MBTXE_6	03-MAY-2018 02:07	S35887 (500X), S36233 (5000X)
L7	122_018	328176634018	MBTXE_7	03-MAY-2018 02:45	S35887 (250X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzene	B	32661	28967	33865	33045	35530	36077	35842	AVRG		2.97E-5		33713	7	0.995	20	
Toluene	B	35850	27715	30543	29993	32299	32713	32236	AVRG		3.16E-5		31621	8	0.995	20	
Ethylbenzene	B	33834	24137	26923	25828	27555	27919	26928	AVRG		3.62E-5		27589	11	0.995	20	
m,p-Xylenes	B	45518	30761	32393	32140	33095	33659	33242	AVRG		2.91E-5		34401	15	0.995	20	
o-Xylene	B	31247	24358	27258	27337	28898	29291	28661	AVRG		3.55E-5		28150	8	0.995	20	
Bromofluorobenzene (PID)	B	25488	25061	24534	24811	25891	26143	26329	AVRG		3.93E-5		25465	3	0.995	20	
Benzene	C	1703.2	1706.2	2146.8	2247.1	2460.9	2462.7	2389.3	AVRG		4.63E-4		2159.5	15	0.995	20	
Toluene	C	1753.6	1588.0	1890.6	2016.8	2223.6	2231.7	2170.5	AVRG		5.05E-4		1982.1	13	0.995	20	
Ethylbenzene	C	1289.2	1252.0	1570.5	1706.8	1871.4	1900.9	1843.8	AVRG		6.12E-4		1633.5	17	0.995	20	
m,p-Xylenes	C	2560.8	1850.1	2117.0	2173.8	2306.7	2311.8	2234.5	AVRG		4.50E-4		2222.1	10	0.995	20	
o-Xylene	C	2204.0	1604.0	1849.9	1872.5	1984.5	1988.5	1930.9	AVRG		5.21E-4		1919.2	9	0.995	20	
Bromofluorobenzene (PID)	C	1775.8	1741.0	1701.0	1707.9	1749.9	1734.9	1719.7	AVRG		5.77E-4		1732.9	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Benzene	B	2.5000	-3	10.000	-14	25.000	0	100.00	-2	500.00	5	1000.0	7	2000.0	6
Toluene	B	2.5000	13	10.000	-12	25.000	-3	100.00	-5	500.00	2	1000.0	3	2000.0	2
Ethylbenzene	B	2.5000	23	10.000	-13	25.000	-2	100.00	-6	500.00	0	1000.0	1	2000.0	-2
m,p-Xylenes	B	2.5000	32	10.000	-11	25.000	-6	100.00	-7	500.00	-4	1000.0	-2	2000.0	-3
o-Xylene	B	2.5000	11	10.000	-13	25.000	-3	100.00	-3	500.00	3	1000.0	4	2000.0	2
Bromofluorobenzene (PID)	B	900.00	0	900.00	-2	900.00	-4	900.00	-3	900.00	2	900.00	3	900.00	3
Benzene	C	2.5000	-21	10.000	-21	25.000	-1	100.00	4	500.00	14	1000.0	14	2000.0	11
Toluene	C	2.5000	-12	10.000	-20	25.000	-5	100.00	2	500.00	12	1000.0	13	2000.0	10
Ethylbenzene	C	2.5000	-21	10.000	-23	25.000	-4	100.00	4	500.00	15	1000.0	16	2000.0	13
m,p-Xylenes	C	2.5000	15	10.000	-17	25.000	-5	100.00	-2	500.00	4	1000.0	4	2000.0	1
o-Xylene	C	2.5000	15	10.000	-16	25.000	-4	100.00	-2	500.00	3	1000.0	4	2000.0	1
Bromofluorobenzene (PID)	C	900.00	2	900.00	0	900.00	-2	900.00	-1	900.00	1	900.00	0	900.00	-1

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVR=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301314 GCVOA Water
EPA 8021B

Inst : GC07
Calnum : 328176634001

Name : MBTXE_122
Cal Date : 02-MAY-2018

ICV 328176634020 (122_020 03-MAY-2018) stds: S36861 (1000X), S36233 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	100.0	95.41	ng	-5	15	
Toluene	B	100.0	92.97	ng	-7	15	
Ethylbenzene	B	100.0	92.82	ng	-7	15	
m,p-Xylenes	B	200.0	181.8	ng	-9	15	
o-Xylene	B	100.0	98.35	ng	-2	15	
Benzene	C	100.0	104.6	ng	5	15	
Toluene	C	100.0	102.9	ng	3	15	
Ethylbenzene	C	100.0	108.3	ng	8	15	
m,p-Xylenes	C	200.0	196.8	ng	-2	15	
o-Xylene	C	100.0	101.6	ng	2	15	

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

ENTHALPY INITIAL CALIBRATION FOR 301314 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 328275574001
 Units : ng

Name : TVH_191
 Date : 10-JUL-2018 15:05
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	191_008	328275574008	TVH_14	10-JUL-2018 15:05	S36893 (1000X), S37192 (5000X)
L2	191_009	328275574009	TVH_15	10-JUL-2018 15:43	S36892 (1000X), S37192 (5000X)
L3	191_010	328275574010	TVH_16	10-JUL-2018 16:21	S36891 (1000X), S37192 (5000X)
L4	191_011	328275574011	TVH_17	10-JUL-2018 17:00	S36890 (2000X), S37192 (5000X)
L5	191_012	328275574012	TVH_18	10-JUL-2018 17:38	S36890 (1000X), S37192 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	3006.3	2394.7	2386.2	2417.3	2312.8	AVRG		3.99E-4		2503.5	11	0.995	20	
Bromofluorobenzene (FID)	A	2145.4	2088.4	2218.7	2306.8	2429.1	AVRG		4.47E-4		2237.7	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	20	2500.0	-4	10000	-5	25000	-3	50000	-8
Bromofluorobenzene (FID)	A	900.00	-4	900.00	-7	900.00	-1	900.00	3	900.00	9

Analyst: CJN

Date: 07/11/18

Reviewer: TKM

Date: 07/11/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301314 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 328275574001

Name : TVH_191
Cal Date : 10-JUL-2018

ICV 328275574017 (191_017 11-JUL-2018) stds: S36894 (1000X), S37192 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8708	ng	-13	15	

Analyst: CJN

Date: 07/11/18 * Reviewer: TKM

Date: 07/11/18 *

Carbon Marker Run

Inst : GC07 IDF : 1.0
 Seqnum : 328275574016 File : 191_016 Time : 10-JUL-2018 20:10
 Standards: S36859 (1000X), S37192 (5000X)

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C6 - n-Hexane	A	2.3	+/- 6s (0.100m)	2.200 - 2.400
C7 - n-Heptane	A	4.6	+/- 6s (0.100m)	4.500 - 4.700
C8 - n-Octane	A	8.283	+/- 6s (0.100m)	8.183 - 8.383
C10 - n-Decane	A	16.1	+/- 6s (0.100m)	16.000 - 16.200
C12 - n-Dodecane	A	23.05	+/- 6s (0.100m)	22.950 - 23.150

Carbon Range	Channel	Range Start	Range Stop
Gasoline C6-C10	A	2.200	16.200
Gasoline C6-C12	A	2.200	23.150
Gasoline C7-C12	A	4.500	23.150
JP-4 C7-C12	A	4.500	23.150

EZChrom method retention times successfully validated.

Analyst: CJN Date: 07/11/18 Reviewer: TKM Date: 07/11/18

ENTHALPY SPIKE USER REPORT FOR 301314 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC939287 IDF : 1.0
 Seqnum : 328277310002.7 File : 192_002 Time : 11-JUL-2018 14:28
 Cal : 328275574001 Caldate : 10-JUL-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2503.5	2367.5	5000	4729	ng	-5	15	u
Bromofluorobenzene (FID)	A	2237.7	2167.2	900.0	871.6	ng	-3	15	u

Analyst: JM2 Date: 07/13/18 Reviewer: EAH Date: 07/13/18

u=use

ENTHALPY SPIKE USER REPORT FOR 301314 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : QC939171 IDF : 1.0
 Seqnum : 328277310003.6 File : 192_003 Time : 11-JUL-2018 15:06
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S37506 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	C	2159.5	2319.0	50.00	53.69	ng	7	15	u
Benzene	B	33713	39909	50.00	59.19	ng	18	15	c+ ***
Toluene	C	1982.1	2077.6	50.00	52.41	ng	5	15	u
Toluene	B	31621	36133	50.00	57.13	ng	14	15	
Ethylbenzene	C	1633.5	1718.5	50.00	52.60	ng	5	15	u
Ethylbenzene	B	27589	30229	50.00	54.78	ng	10	15	
m,p-Xylenes	C	2222.1	2307.2	50.00	51.92	ng	4	15	u
m,p-Xylenes	B	34401	38833	50.00	56.44	ng	13	15	
o-Xylene	C	1919.2	1909.9	50.00	49.76	ng	0	15	u
o-Xylene	B	28150	32203	50.00	57.20	ng	14	15	
Bromofluorobenzene (PID)	C	1732.9	1558.7	900.0	809.5	ng	-10	15	u
Bromofluorobenzene (PID)	B	25465	24669	900.0	871.9	ng	-3	15	

JM2 07/11/18 : Reporting from Ch. C using Ch. B as confirmation. [general version]

Analyst: JM2 Date: 07/13/18 Reviewer: EAH Date: 07/13/18

+ = high bias c = CCV u = use

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328277310015 File : 192_015 Time : 11-JUL-2018 22:52
 Cal : 328275574001 Caldate : 10-JUL-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2503.5	2107.1	10000	8417	ng	-16	15	c- ***
Bromofluorobenzene (FID)	A	2237.7	1872.0	900.0	752.9	ng	-16	15	c-

CJN 07/12/18 : Out low for Gas C7-C12. Rerunning all associated samples.

CJN 07/12/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 07/12/18 Reviewer: EAH Date: 07/12/18

--low bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328277310018 File : 192_018 Time : 12-JUL-2018 00:47
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S37506 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	B	33713	38633	100.0	114.6	ng	15	15	
Toluene	B	31621	34527	100.0	109.2	ng	9	15	
Ethylbenzene	B	27589	29160	100.0	105.7	ng	6	15	
m,p-Xylenes	B	34401	35691	100.0	103.7	ng	4	15	
o-Xylene	B	28150	30470	100.0	108.2	ng	8	15	
Bromofluorobenzene (PID)	B	25465	20437	900.0	722.3	ng	-20	15	c-
Benzene	C	2159.5	2444.6	100.0	113.2	ng	13	15	
Toluene	C	1982.1	2171.4	100.0	109.5	ng	10	15	
Ethylbenzene	C	1633.5	1803.0	100.0	110.4	ng	10	15	
m,p-Xylenes	C	2222.1	2251.7	100.0	101.3	ng	1	15	
o-Xylene	C	1919.2	1911.7	100.0	99.61	ng	0	15	
Bromofluorobenzene (PID)	C	1732.9	1323.8	900.0	687.6	ng	-24	15	c-

CJN 07/12/18 [Bromofluorobenzene (PID) B]: Passes control limits.

Analyst: CJN Date: 07/12/18 Reviewer: EAH Date: 07/12/18

--low bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328278480002 File : 193_002 Time : 12-JUL-2018 09:58
 Cal : 328275574001 Caldate : 10-JUL-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2503.5	2197.5	5000	4389	ng	-12	15	
Bromofluorobenzene (FID)	A	2237.7	1814.7	900.0	729.9	ng	-19	15	c-

CJN 07/13/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18

--low bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328278480012 File : 193_012 Time : 12-JUL-2018 16:38
 Cal : 328275574001 Caldate : 10-JUL-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2503.5	2407.5	10000	9617	ng	-4	15	
Bromofluorobenzene (FID)	A	2237.7	2237.5	900.0	899.9	ng	0	15	

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328278480015 File : 193_015 Time : 12-JUL-2018 18:33
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S37506 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	B	33713	41342	100.0	122.6	ng	23	15	c+ ***
Toluene	B	31621	37173	100.0	117.6	ng	18	15	c+ ***
Ethylbenzene	B	27589	31316	100.0	113.5	ng	14	15	
m,p-Xylenes	B	34401	39408	100.0	114.6	ng	15	15	
o-Xylene	B	28150	33465	100.0	118.9	ng	19	15	c+ ***
Bromofluorobenzene (PID)	B	25465	22899	900.0	809.3	ng	-10	15	
Benzene	C	2159.5	2654.1	100.0	122.9	ng	23	15	c+ ***
Toluene	C	1982.1	2357.6	100.0	118.9	ng	19	15	c+ ***
Ethylbenzene	C	1633.5	1990.3	100.0	121.8	ng	22	15	c+ ***
m,p-Xylenes	C	2222.1	2501.7	100.0	112.6	ng	13	15	
o-Xylene	C	1919.2	2133.3	100.0	111.2	ng	11	15	
Bromofluorobenzene (PID)	C	1732.9	1492.3	900.0	775.1	ng	-14	15	

CJN 07/13/18 : Out high, reporting ND samples.

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18

+ = high bias c = CCV

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328278480026 File : 193_026 Time : 13-JUL-2018 01:34
 Cal : 328275574001 Caldate : 10-JUL-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2503.5	2338.6	15000	14010	ng	-7	15	
Bromofluorobenzene (FID)	A	2237.7	2272.1	900.0	913.8	ng	2	15	

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328176634

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 05/02/18 15:54
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Std	Used
001	122_001	IB	CALIB			05/02/18 15:54	1.0	1	
002	122_002	ICAL	TVH_14			05/02/18 16:33	1.0	2	1
003	122_003	ICAL	TVH_15			05/02/18 17:11	1.0	3	1
004	122_004	ICAL	TVH_16			05/02/18 17:49	1.0	4	1
005	122_005	ICAL	TVH_17			05/02/18 18:28	1.0	5	1
006	122_006	ICAL	TVH_18			05/02/18 19:06	1.0	5	1
007	122_007	IB				05/02/18 19:44	1.0	1	
008	122_008	ICV	TVH			05/02/18 20:23	1.0	6	1
009	122_009	X	ICV			05/02/18 21:00	1.0	6	1
010	122_010	CMARKER				05/02/18 21:39	1.0	7	1
011	122_011	IB	CALIB			05/02/18 22:17	1.0	1	
012	122_012	ICAL	BTXE_1			05/02/18 22:56	1.0	8	1
013	122_013	ICAL	MBTXE_2			05/02/18 23:34	1.0	9	1
014	122_014	ICAL	MBTXE_3			05/03/18 00:12	1.0	9	1
015	122_015	ICAL	MBTXE_4			05/03/18 00:50	1.0	9	1
016	122_016	ICAL	MBTXE_5			05/03/18 01:28	1.0	10	1
017	122_017	ICAL	MBTXE_6			05/03/18 02:07	1.0	10	1
018	122_018	ICAL	MBTXE_7			05/03/18 02:45	1.0	10	1
019	122_019	IB				05/03/18 03:23	1.0	1	
020	122_020	ICV	MBTXE			05/03/18 04:01	1.0	11	1
021	122_021	X	ICV			05/03/18 04:40	1.0	11	1

PAW 05/04/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 21.

Reviewed by: PAW Date: 05/04/18

Standards used: 1=S36233 2=S36893 3=S36892 4=S36891 5=S36890 6=S36894 7=S35319 8=S35889 9=S36294 10=S35887 11=S36861

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328275574

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 07/10/18 08:54
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	191_001	X	CMARKER			07/10/18 08:54	1.0	1 2
002	191_002	CCV	TVH			07/10/18 09:32	1.0	3 2
003	191_003	CCV	BTXE			07/10/18 10:11	1.0	4 2
004	191_004	CCV	TVH			07/10/18 10:49	1.0	3 2
005	191_005	CCV	BTXE			07/10/18 11:27	1.0	4 2
006	191_006	IB				07/10/18 12:06	1.0	2
007	191_007	IB	CALIB			07/10/18 14:26	1.0	2
008	191_008	ICAL	TVH_14			07/10/18 15:05	1.0	5 2
009	191_009	ICAL	TVH_15			07/10/18 15:43	1.0	6 2
010	191_010	ICAL	TVH_16			07/10/18 16:21	1.0	7 2
011	191_011	ICAL	TVH_17			07/10/18 17:00	1.0	8 2
012	191_012	ICAL	TVH_18			07/10/18 17:38	1.0	8 2
013	191_013	IB				07/10/18 18:16	1.0	2
014	191_014	X	ICV			07/10/18 18:54	1.0	9 2
015	191_015	ICV	TVH			07/10/18 19:32	1.0	9 2
016	191_016	CMARKER				07/10/18 20:10	1.0	10 2
017	191_017	ICV	TVH			07/11/18 12:00	1.0	9 2

Reviewed by: _____ Date: _____

Standards used: 1=S35319 2=S37192 3=S36848 4=S37506 5=S36893 6=S36892 7=S36891 8=S36890 9=S36894 10=S36859

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328277310

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 07/11/18 13:50
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	192_001	X	CMARKER			07/11/18 13:50	1.0	1 2	
002	192_002	CCV/BS	QC939287	Water	261329	07/11/18 14:28	1.0	3 2	
003	192_003	CCV/BS	QC939171	Water	261329	07/11/18 15:06	1.0	4 2	
004	192_004	CCV	MINERAL			07/11/18 15:44	1.0	5 2	
005	192_005	BSD	QC939288	Water	261329	07/11/18 16:23	1.0	3 2	
006	192_006	BSD	QC939172	Water	261329	07/11/18 17:01	1.0	4 2	
007	192_007	BLANK	QC939175	Water	261329	07/11/18 17:39	1.0	2	
008	192_008	SAMPLE	301314-004	Water	261329	07/11/18 18:25	1.0	2	headspace > 1 mL
009	192_009	MSS	301314-001	Water	261329	07/11/18 19:03	1.0	2	
010	192_010	SAMPLE	301314-002	Water	261329	07/11/18 19:41	1.0	2	
011	192_011	SAMPLE	301314-003	Water	261329	07/11/18 20:20	1.0	2	
012	192_012	SAMPLE	301338-001	Water	261329	07/11/18 20:58	100.0	2	diluted (odor)
013	192_013	IB				07/11/18 21:36	1.0	2	
014	192_014	IB				07/11/18 22:14	1.0	2	
015	192_015	CCV	TVH			07/11/18 22:52	1.0	3 2	
016	192_016	CCV	MINERAL			07/11/18 23:30	1.0	5 2	
017	192_017	X	CMARKER			07/12/18 00:08	1.0	1 2	
018	192_018	CCV	BTXE			07/12/18 00:47	1.0	4 2	
019	192_019	SAMPLE	301333-001	Water	261329	07/12/18 01:25	1.0	2	
020	192_020	SAMPLE	301339-001	Water	261329	07/12/18 02:04	1.0	2	headspace <= 1 mL
021	192_021	SAMPLE	301374-001	Water	261329	07/12/18 02:42	1.0	2	
022	192_022	SAMPLE	301382-003	Water	261329	07/12/18 03:20	1.0	2	headspace > 1 mL
023	192_023	MS	QC939173	Water	261329	07/12/18 03:58	1.0	3 2	
024	192_024	MSD	QC939174	Water	261329	07/12/18 04:36	1.0	3 2	
025	192_025	CCV	TVH			07/12/18 05:14	1.0	3 2	
026	192_026	X	CMARKER			07/12/18 05:52	1.0	1 2	
027	192_027	CCV	BTXE			07/12/18 06:30	1.0	4 2	

CJN 07/12/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 27.

Reviewed by: CJN Date: 07/12/18

Standards used: 1=S36859 2=S37192 3=S36848 4=S37506 5=S37507

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328278480

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 07/12/18 09:20
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	193_001	X	CMARKER			07/12/18 09:20	1.0	1 2	
002	193_002	CCV	TVH			07/12/18 09:58	1.0	3 2	
003	193_003	CCV	MS			07/12/18 10:37	1.0	4 2	
004	193_004	CCV/BS	QC939266	Soil	261350	07/12/18 11:15	1.0	5 2	
005	193_005	LCS	QC939276	Water	261354	07/12/18 11:53	1.0	3 2	
006	193_006	BSD	QC939267	Soil	261350	07/12/18 12:31	1.0	5 2	
007	193_007	BLANK	QC939268	Soil	261350	07/12/18 13:09	1.0	2	
008	193_008	BLANK	QC939279	Water	261354	07/12/18 13:47	1.0	2	
009	193_009	SAMPLE	301338-001	Water	261354	07/12/18 14:34	50.0	2	
010	193_010	IB				07/12/18 15:13	1.0	2	
011	193_011	SAMPLE	301338-001	Water	261354	07/12/18 15:51	25.0	2	diluted (odor)
012	193_012	CCV	TVH			07/12/18 16:38	1.0	3 2	
013	193_013	CCV	MS			07/12/18 17:17	1.0	4 2	
014	193_014	X	CMARKER			07/12/18 17:55	1.0	1 2	
015	193_015	CCV	BTXE			07/12/18 18:33	1.0	5 2	
016	193_016	SAMPLE	301314-004	Water	261354	07/12/18 19:11	1.0	2	headspace > 1 mL
017	193_017	MSS	301314-001	Water	261354	07/12/18 19:49	1.0	2	
018	193_018	SAMPLE	301314-002	Water	261354	07/12/18 20:28	1.0	2	
019	193_019	SAMPLE	301314-003	Water	261354	07/12/18 21:06	1.0	2	
020	193_020	SAMPLE	301394-037	Water	261354	07/12/18 21:44	1.0	2	
021	193_021	SAMPLE	301382-001	Soil	261350	07/12/18 22:23	1.0	2	
022	193_022	SAMPLE	301382-002	Soil	261350	07/12/18 23:01	1.0	2	
023	193_023	SAMPLE	301367-001	Soil	261350	07/12/18 23:39	1.0	2	
024	193_024	MS	QC939285	Water	261354	07/13/18 00:17	1.0	3 2	
025	193_025	MSD	QC939286	Water	261354	07/13/18 00:56	1.0	3 2	
026	193_026	CCV	TVH			07/13/18 01:34	1.0	3 2	
027	193_027	X	CMARKER			07/13/18 02:12	1.0	1 2	
028	193_028	CCV	BTXE			07/13/18 02:50	1.0	5 2	
029	193_029	SAMPLE	301404-018	Water	261354	07/13/18 03:29	1.0	2	
030	193_030	SAMPLE	301404-019	Water	261354	07/13/18 04:07	1.0	2	1:GAS:7-12=56000
031	193_031	SAMPLE	301404-020	Water	261354	07/13/18 04:45	1.0	2	
032	193_032	SAMPLE	301404-022	Water	261354	07/13/18 05:23	1.0	2	
033	193_033	SAMPLE	301404-021	Water	261354	07/13/18 06:01	10.0	2	diluted (client history)
034	193_034	IB				07/13/18 06:39	1.0	2	
035	193_035	IB				07/13/18 07:18	1.0	2	
036	193_036	CCV	TVH			07/13/18 07:56	1.0	3 2	

CJN 07/13/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 36.

CJN 07/13/18 : Sharing closing CM with subsequent sequence.

Reviewed by: CJN Date: 07/13/18

Standards used: 1=S36859 2=S37192 3=S36848 4=S37507 5=S37506

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #: 09-08-2017

pH paper (<2.5SU), lot: 23031S

pH paper (0-14SU), lot: 10BDH1271

Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MS/OA?	# unused vials remaining	RR #	DF	Comments	hold	due	cost	Initial/Date
301142-1	A	Y											7/2/18 JMC
301189-1	I	I											I
I-2	I	I											I
I-3	I	I											I
301209-1	I	N	7										I
301097-8	C	Y											JMC 7/5/18
I-9 MS	I	I											I
I-9 MSD	I	I											I
301235-1	A	Y						1000/5000	odor				I
301236-1	I	I		Y				1000/5000	HM, cl				I
I-2	B	I						10/5000	cl				I
I-3	A	I						50/5000	cl				I
301237-5	I	I											I
I-6	B	I											I
I-5 MS	A	I											I
I-5 MSD	I	I											I
301142-1	D	Y											JMC 7/5/18
I-1 MS	I	I											I
I-1 MSD	I	I											I
301235-1	B	Y											I
301254-10	A	I		Y									I
I-13	I	I		I					HL				I
I-14	I	I		I					HL				I
301314-1	A	Y											JMC 7/11/18
I-2	I	I											I
I-3	I	I											I
I-4	I	I		Y					HM				I

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #. 09-08-2017

pH paper (<2.5SU), lot: 230315

pH paper (0-14SU), lot: 1680H1271

	Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MS/OA?	# unused vials remaining	RR #	DF	Comments	hold	due	Initial/Date
1	301314-1	MS	A	Y									JM 7/11/18
2	J -1	MSD	J	J									
3	301333-1	E	J	J									
4	301339-1	A	J	Y						HL			
5	301338-1	H	Y						50/5000	odor			
6	301374-1	A	J										
7	301382-3	C	J	Y						HM			
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													

TITLE TVH/BTXE Soil Aliquot PROJECT DATE

Continued from page		ID	Weight (g)	Moisture	Comments: Initials	Bal. ID
SAMPLE						
301238-1	A	0.91	No	JMz 7/10/18	B-6	
↓ -2		0.99				
↓ -2	MS	0.98				
↓ -2	MSD	0.98				
301350-1	B	1.07				
↓ -2		0.93				
301334-1	A	0.91				
301377-1	A	0.98	No	JMz 7/11/18	B-6	
301382-1		0.93				
↓ -2		0.94				
301367-1		0.95				
301376-1		0.92				
↓ -2		0.97				
↓ -3		1.02				
301367-1	MS	1.00				
↓ -1	MSD	1.09				
301382-1	A	1.02	No	JMz 7/12/18	B-6	
↓ -2		0.97				
301367-1		0.95				
301391-13	A	0.92		Comp 391-(1-4)		
↓ -14		1.01		↓ -(5-8)		
301397-5		1.05		↓ -(9-12)		
301396-7	B	0.92				
↓ -8		0.93				
↓ -9		0.93				
301389-1	A	1.04				
↓ -1	MS	0.93				
↓ -1	MSD	0.96				
301408-1	A	MeOH 200/5000				
301405-1		36.67 - 30.710 - 0.56 = 5.40				
↓ -2		35.69 - 30.528 ↓ = 4.60				
301404-1	B	1.00				
↓ -2		0.98				
↓ -3	MeOH	200/5000				
↓ -5	MeOH	200/5000				
↓ -7		0.90				
↓ -8		0.99				
↓ -9		0.93				
↓ -10		1.00				
↓ -11		1.10				
↓ -12		1.04				
↓ -14		0.98				
↓ -15		1.04				

Continued to page

SIGNATURE	DATE
DISCLOSED TO AND UNDERSTOOD BY	DATE
PROPRIETARY INFORMATION	

BK4194 - 98

BOOK PAGE

TITLE TVH/BTXE Soil Aliquot PROJECT

DATE

Continued from page						
Sample	ID	Weight (g)		Number	Comments: Initials	Rec ID
301404-17	B		0.99		JMZ 7/12/18	B-6
↓ -1 MS	↓		0.95	↓	↓	↓
↓ -1 MSB	↓		1.05	↓	↓	↓
301412-5	A	37.02 - 31.039 - 0.2 = 5.78		↓	↓	↓
301413-5	L	36.66 - 31.057 - 1 = 5.40		↓	↓	↓
301420-1	C		1.00	↓	↓	↓
Continued to page						
SIGNATURE				DATE		
DISCLOSED TO AND UNDERSTOOD BY				DATE		PROPRIETARY INFORMATION

REPORTING SUMMARY FOR 301314 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
301314-001	Gasoline C7-C12	GC07	A	07/12/18 19:49
301314-001	Benzene	GC07	C	07/11/18 19:03
301314-001	Toluene	GC07	C	07/11/18 19:03
301314-001	Ethylbenzene	GC07	C	07/11/18 19:03
301314-001	m,p-Xylenes	GC07	C	07/11/18 19:03
301314-001	o-Xylene	GC07	C	07/11/18 19:03
301314-001	Bromofluorobenzene (FID)	GC07	A	07/12/18 19:49
301314-001	Bromofluorobenzene (PID)	GC07	C	07/11/18 19:03
301314-002	Gasoline C7-C12	GC07	A	07/12/18 20:28
301314-002	Benzene	GC07	C	07/11/18 19:41
301314-002	Toluene	GC07	C	07/11/18 19:41
301314-002	Ethylbenzene	GC07	C	07/11/18 19:41
301314-002	m,p-Xylenes	GC07	C	07/11/18 19:41
301314-002	o-Xylene	GC07	C	07/11/18 19:41
301314-002	Bromofluorobenzene (FID)	GC07	A	07/12/18 20:28
301314-002	Bromofluorobenzene (PID)	GC07	C	07/11/18 19:41
301314-003	Gasoline C7-C12	GC07	A	07/12/18 21:06
301314-003	Benzene	GC07	C	07/11/18 20:20
301314-003	Toluene	GC07	C	07/11/18 20:20
301314-003	Ethylbenzene	GC07	C	07/11/18 20:20
301314-003	m,p-Xylenes	GC07	C	07/11/18 20:20
301314-003	o-Xylene	GC07	C	07/11/18 20:20
301314-003	Bromofluorobenzene (FID)	GC07	A	07/12/18 21:06
301314-003	Bromofluorobenzene (PID)	GC07	C	07/11/18 20:20
301314-004	Gasoline C7-C12	GC07	A	07/12/18 19:11
301314-004	Benzene	GC07	C	07/11/18 18:25
301314-004	Toluene	GC07	C	07/11/18 18:25
301314-004	Ethylbenzene	GC07	C	07/11/18 18:25
301314-004	m,p-Xylenes	GC07	C	07/11/18 18:25
301314-004	o-Xylene	GC07	C	07/11/18 18:25
301314-004	Bromofluorobenzene (FID)	GC07	A	07/12/18 19:11
301314-004	Bromofluorobenzene (PID)	GC07	C	07/11/18 18:25
QC939175	Benzene	GC07	C	07/11/18 17:39
QC939175	Toluene	GC07	C	07/11/18 17:39
QC939175	Ethylbenzene	GC07	B	07/11/18 17:39
QC939175	m,p-Xylenes	GC07	B	07/11/18 17:39
QC939175	o-Xylene	GC07	C	07/11/18 17:39
QC939175	Bromofluorobenzene (FID)	GC07	A	07/11/18 17:39
QC939175	Bromofluorobenzene (PID)	GC07	C	07/11/18 17:39
QC939279	Gasoline C7-C12	GC07	A	07/12/18 13:47
QC939279	Bromofluorobenzene (FID)	GC07	A	07/12/18 13:47
QC939279	Bromofluorobenzene (PID)	GC07	C	07/12/18 13:47
QC939171	Benzene	GC07	C	07/11/18 15:06
QC939171	Toluene	GC07	C	07/11/18 15:06
QC939171	Ethylbenzene	GC07	C	07/11/18 15:06
QC939171	m,p-Xylenes	GC07	C	07/11/18 15:06
QC939171	o-Xylene	GC07	C	07/11/18 15:06
QC939171	Bromofluorobenzene (PID)	GC07	C	07/11/18 15:06

REPORTING SUMMARY FOR 301314 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC939172	Benzene	GC07	C	07/11/18 17:01
QC939172	Toluene	GC07	C	07/11/18 17:01
QC939172	Ethylbenzene	GC07	C	07/11/18 17:01
QC939172	m,p-Xylenes	GC07	C	07/11/18 17:01
QC939172	o-Xylene	GC07	C	07/11/18 17:01
QC939172	Bromofluorobenzene (PID)	GC07	C	07/11/18 17:01
QC939276	Gasoline C7-C12	GC07	A	07/12/18 11:53
QC939276	Bromofluorobenzene (FID)	GC07	A	07/12/18 11:53
QC939285	Gasoline C7-C12	GC07	A	07/13/18 00:17
QC939285	Bromofluorobenzene (FID)	GC07	A	07/13/18 00:17
QC939286	Gasoline C7-C12	GC07	A	07/13/18 00:56
QC939286	Bromofluorobenzene (FID)	GC07	A	07/13/18 00:56

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 301314-001 Client ID : BR11-1GW01
 Seqnum : 328277310009 Matrix : Water Acct : TRC-SF (MJD)
 File : 192_009 Batch : 261329 Time : 11-JUL-2018 19:03
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

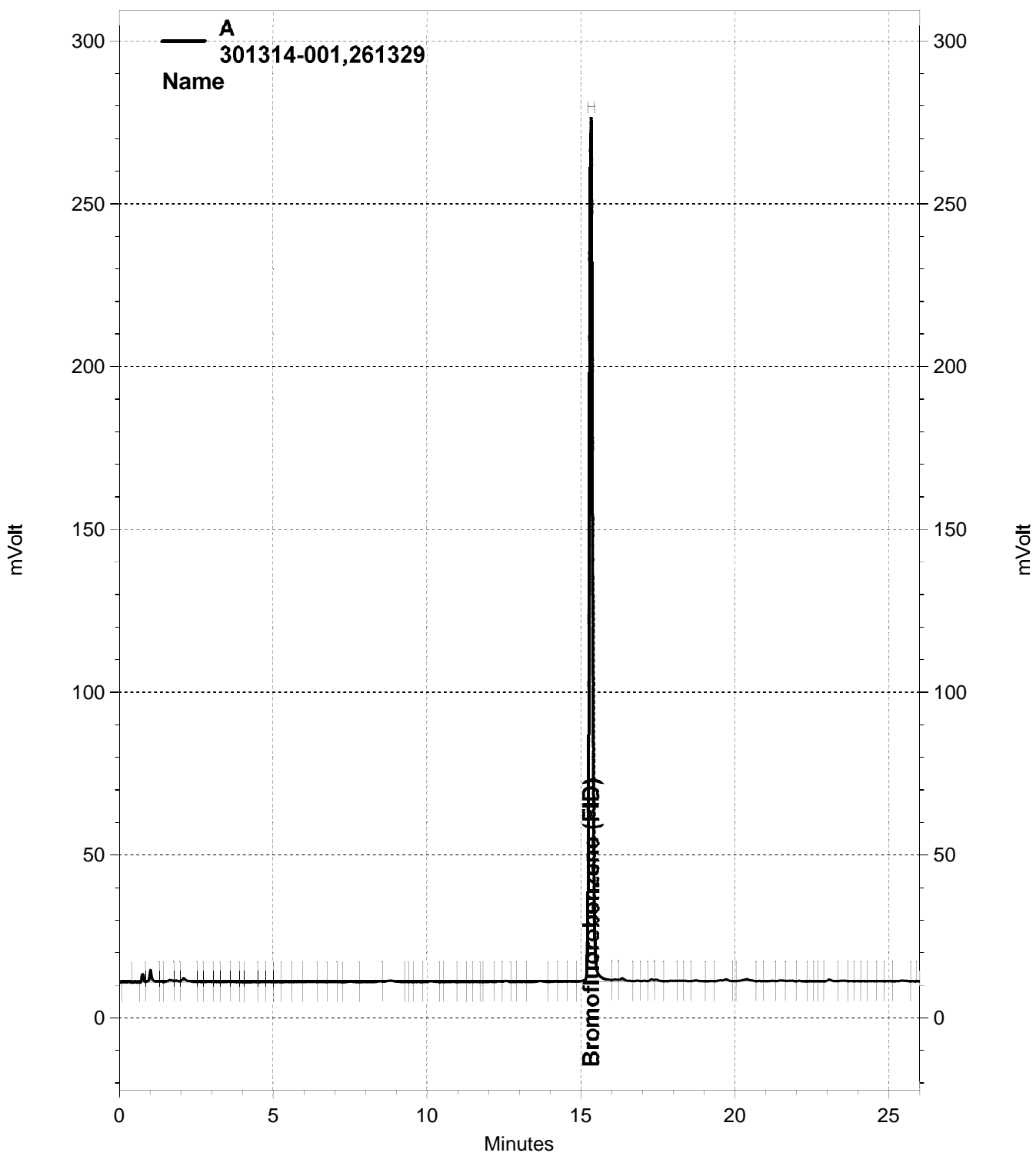
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328275574001	87.24	17 J			50	21	>c- b*
Benzene	C	328176634001	0	ND	ND		0.50		u
Toluene	C	328176634001	0.3325	ND	ND	28%	0.50		u
Ethylbenzene	C	328176634001	0	ND	ND		0.50	0.15	u
m,p-Xylenes	C	328176634001	0.1598	ND	ND	97%	0.50	0.25	u
o-Xylene	C	328176634001	0.1845	ND	ND	98%	0.50		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328275574001	867.1	180.0	173.4	96	79-120	>c-
Bromofluorobenzene (PID)	C	328176634001	819.5	180.0	163.9	91	71-127	>c- u

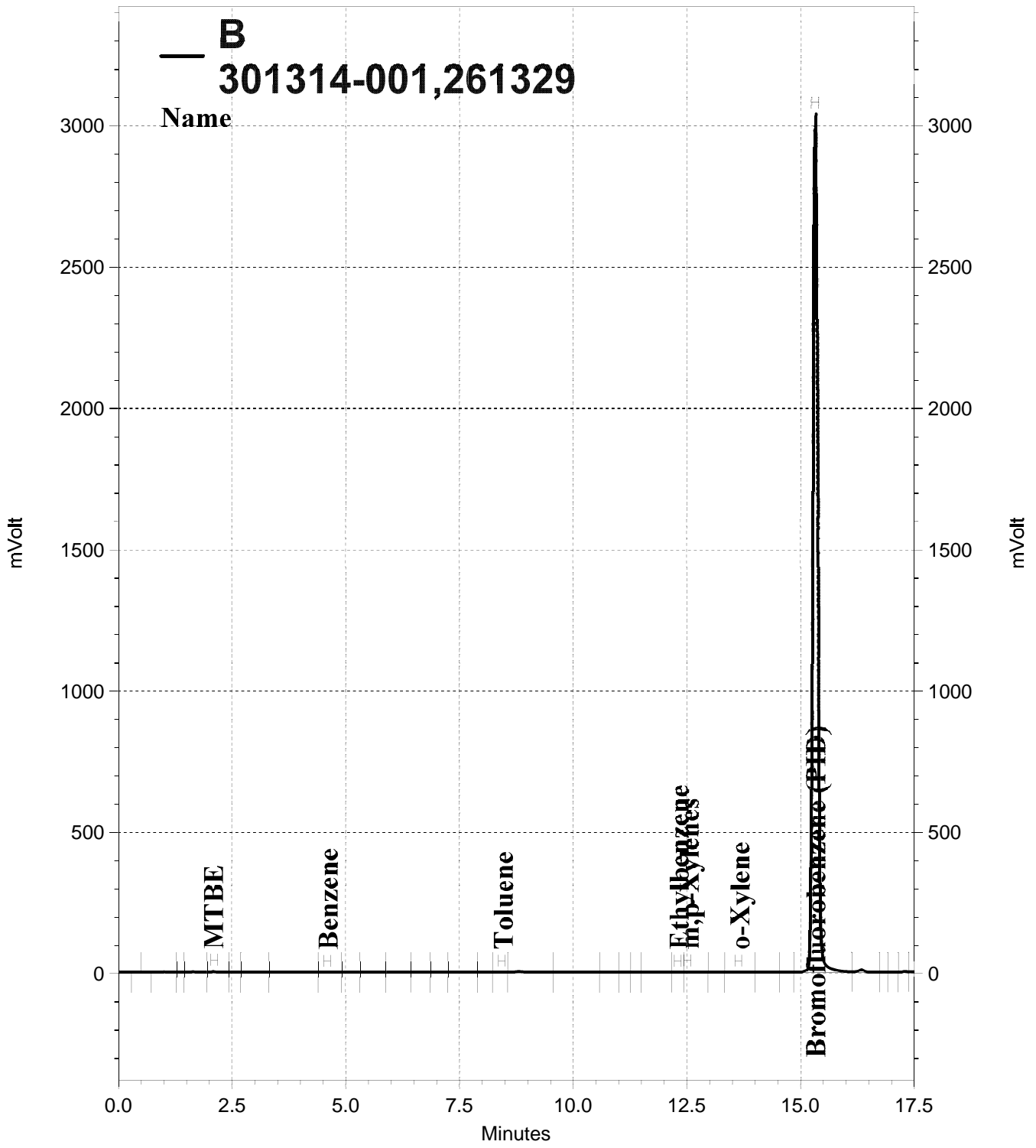
CJN 07/12/18 : Closing out low for Gas C7-C12.

CJN: 07/12/18 * JM2: 07/13/18 EAH: 07/13/18

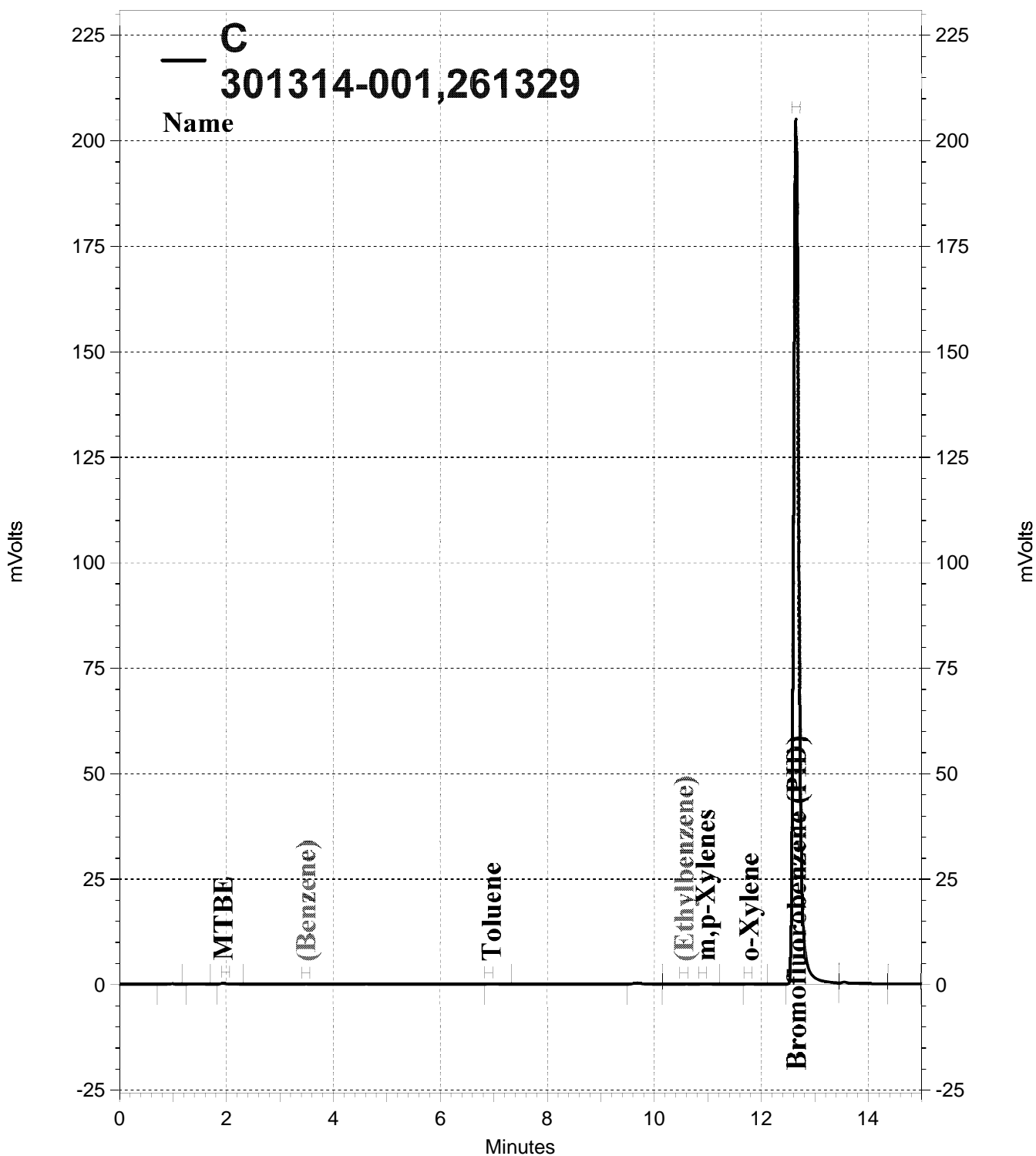
--low bias >=closing b=noncompliant c=CCV u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-009, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-009, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-009, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\192.seq
Sample Name: 301314-001,261329
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-009
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/11/2018 7:03:42 PM
Analysis Date: 7/11/2018 7:32:25 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1940202	867.051
GAS:6-10			105492	41.656
GAS:6-12			234523	73.686
GAS:7-12			218401	87.240
JP4:7-12			218401	58.253

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.100	2.117	52035	4.515
Benzene	4.617	4.600	7201	0.214
Toluene	8.467	8.433	13974	0.442
Ethylbenzene	12.333	12.300	7248	0.263
m,p-Xylenes	12.550	12.517	15919	0.463
o-Xylene	13.667	13.633	15156	0.538
Bromofluorobenzene (PID)	15.333	15.317	22121988	868.716

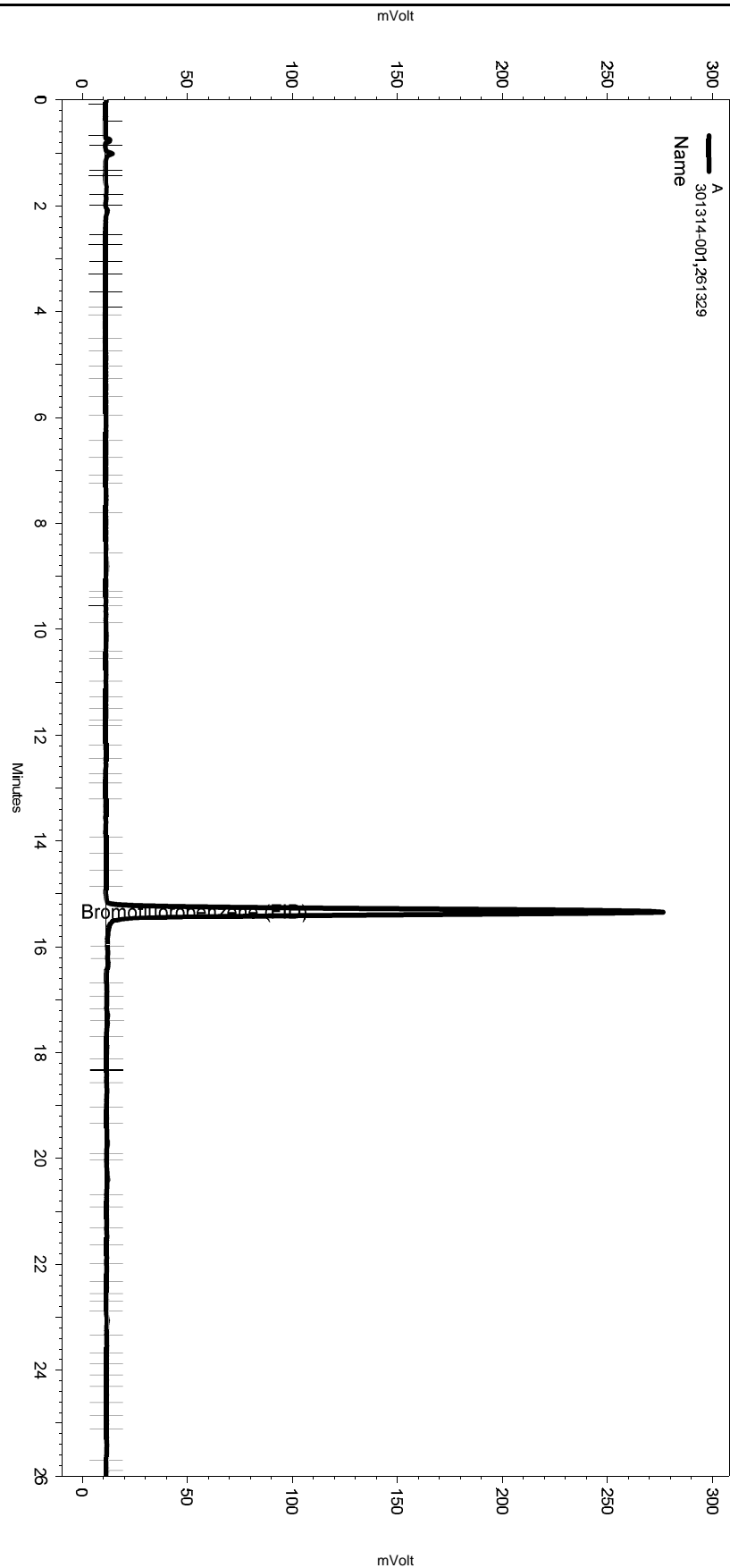
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.933	1.983	1767	2.452
Benzene		3.483		0.000 BDL
Toluene	6.950	6.900	659	0.332
Ethylbenzene		10.549		0.000 BDL
m,p-Xylenes	10.949	10.899	355	0.160
o-Xylene	11.766	11.749	354	0.184
Bromofluorobenzene (PID)	12.649	12.649	1420035	819.478

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-001,261329
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-009
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 7:03:42 PM
 Analysis Date: 7/11/2018 7:32:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

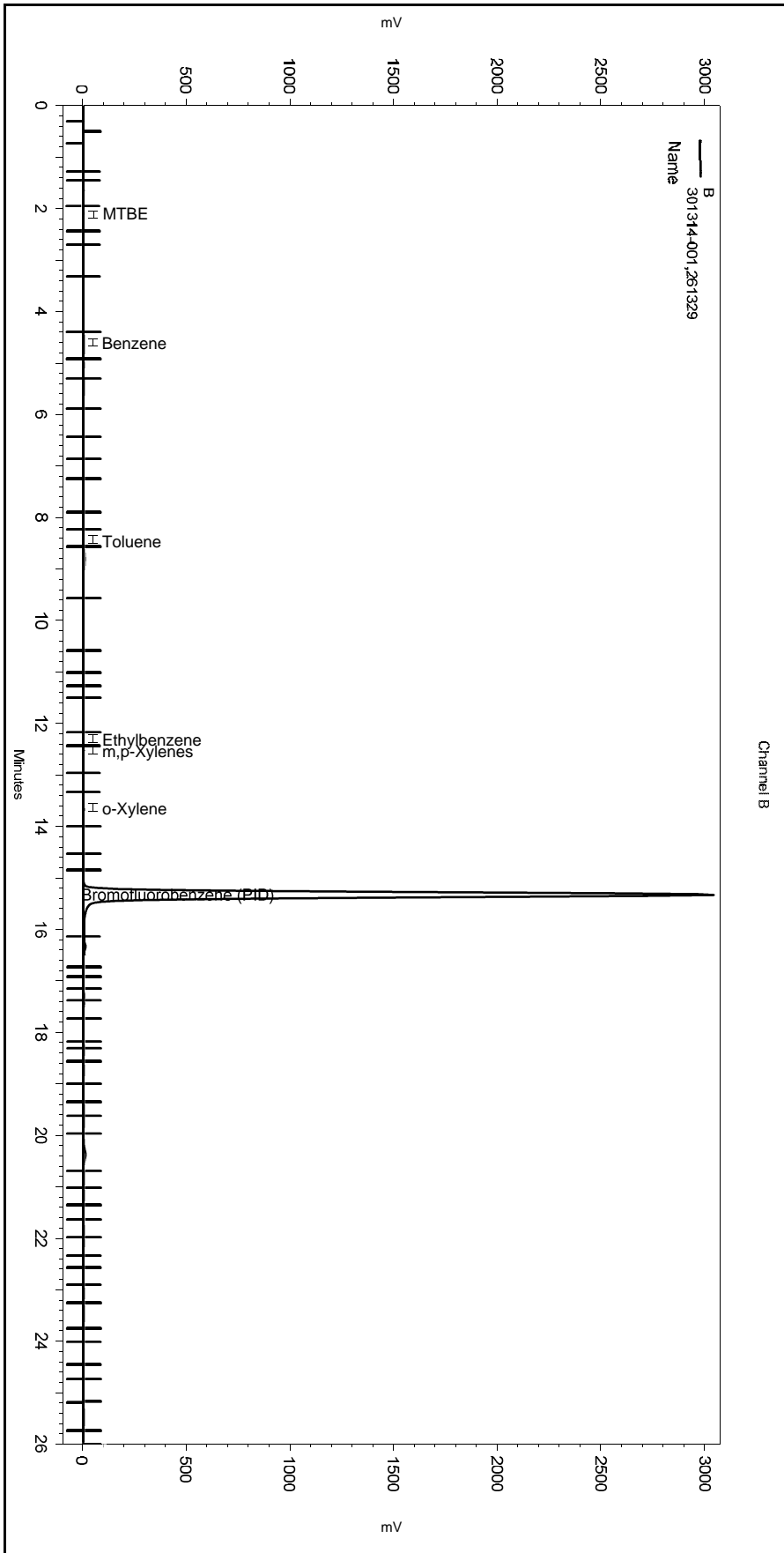
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-009_65B1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-001,261329
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-009
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 7:03:42 PM
 Analysis Date: 7/11/2018 7:32:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

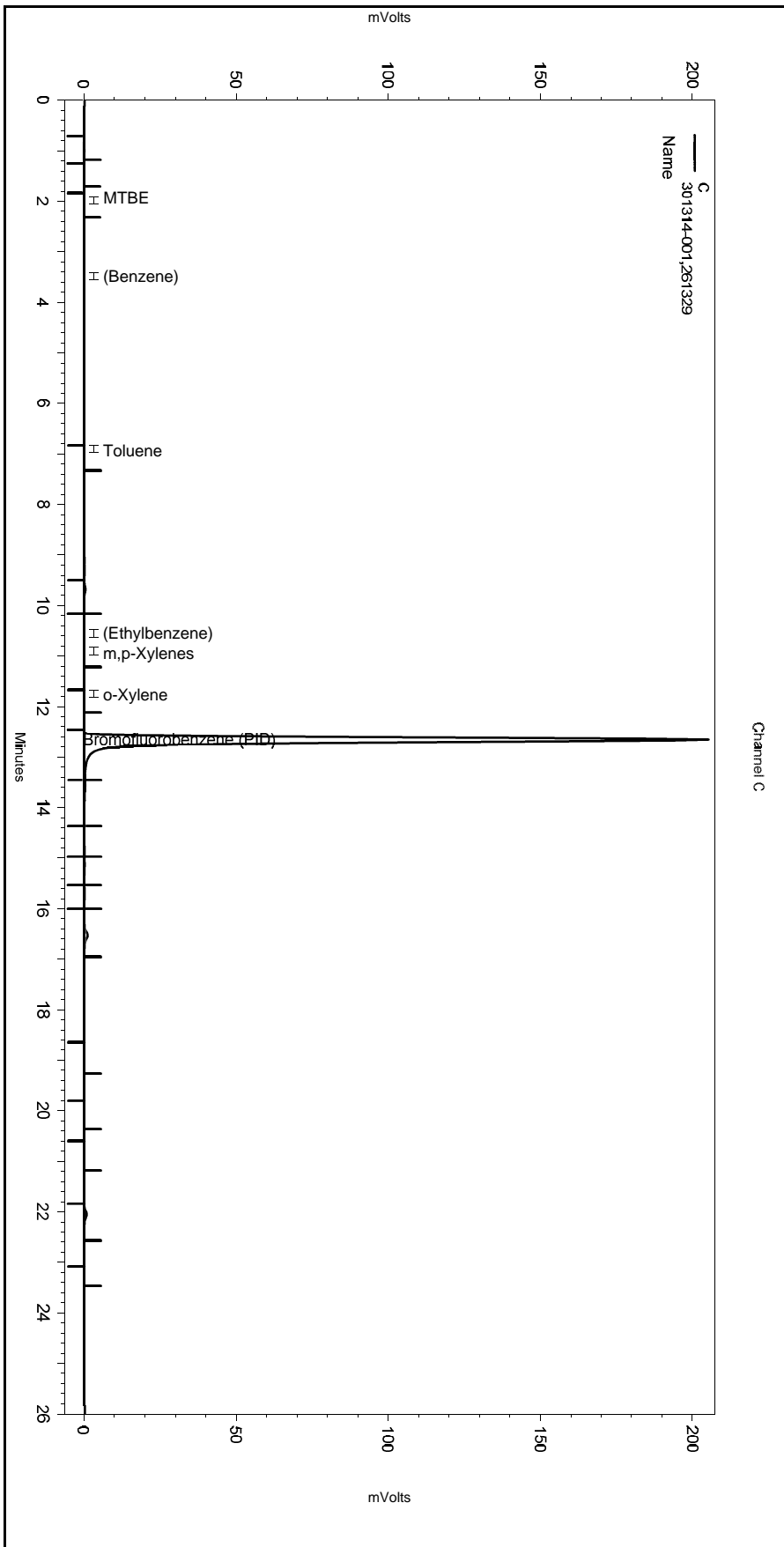
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-009_65B1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-001,261329
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-009
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 7:03:42 PM
 Analysis Date: 7/11/2018 7:32:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-009_65B1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 301314-001 Client ID : BR11-1GW01
 Seqnum : 328278480017 Matrix : Water Acct : TRC-SF (MJD)
 File : 193_017 Batch : 261354 Time : 12-JUL-2018 19:49
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

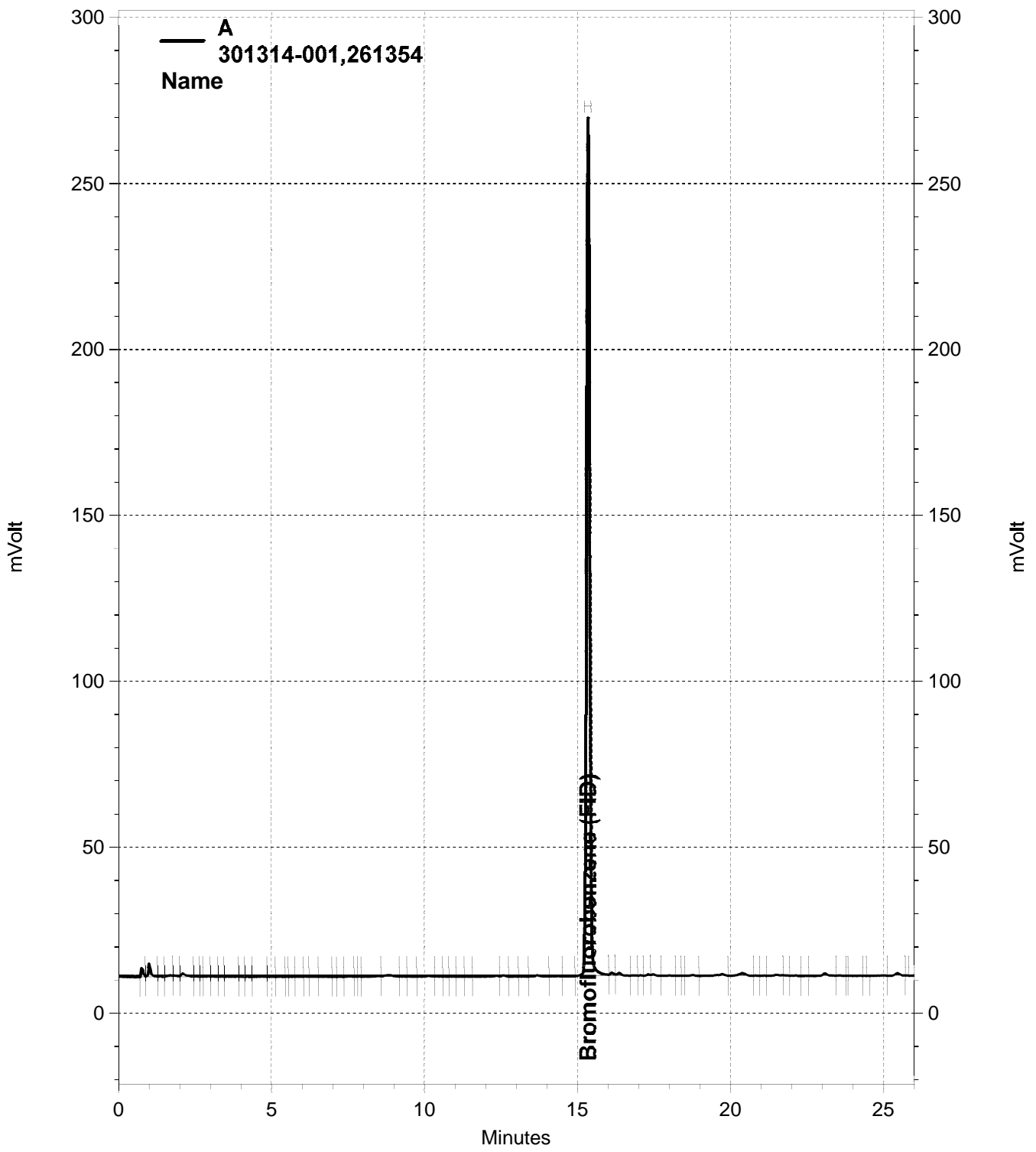
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328275574001	75.65	15 J			50	13	u
Benzene	C	328176634001	0	ND	ND		0.50		<c+
Toluene	C	328176634001	0.2164	ND	ND	49%	0.50		<c+
Ethylbenzene	C	328176634001	0.3061	ND	ND	11%	0.50		<c+
m,p-Xylenes	C	328176634001	0.4235	ND	ND	18%	0.50		
o-Xylene	C	328176634001	0.3554	ND	ND	58%	0.50		

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328275574001	840.0	180.0	168.0	93	79-120	u
Bromofluorobenzene (PID)	C	328176634001	808.6	180.0	161.7	90	71-127	>c-

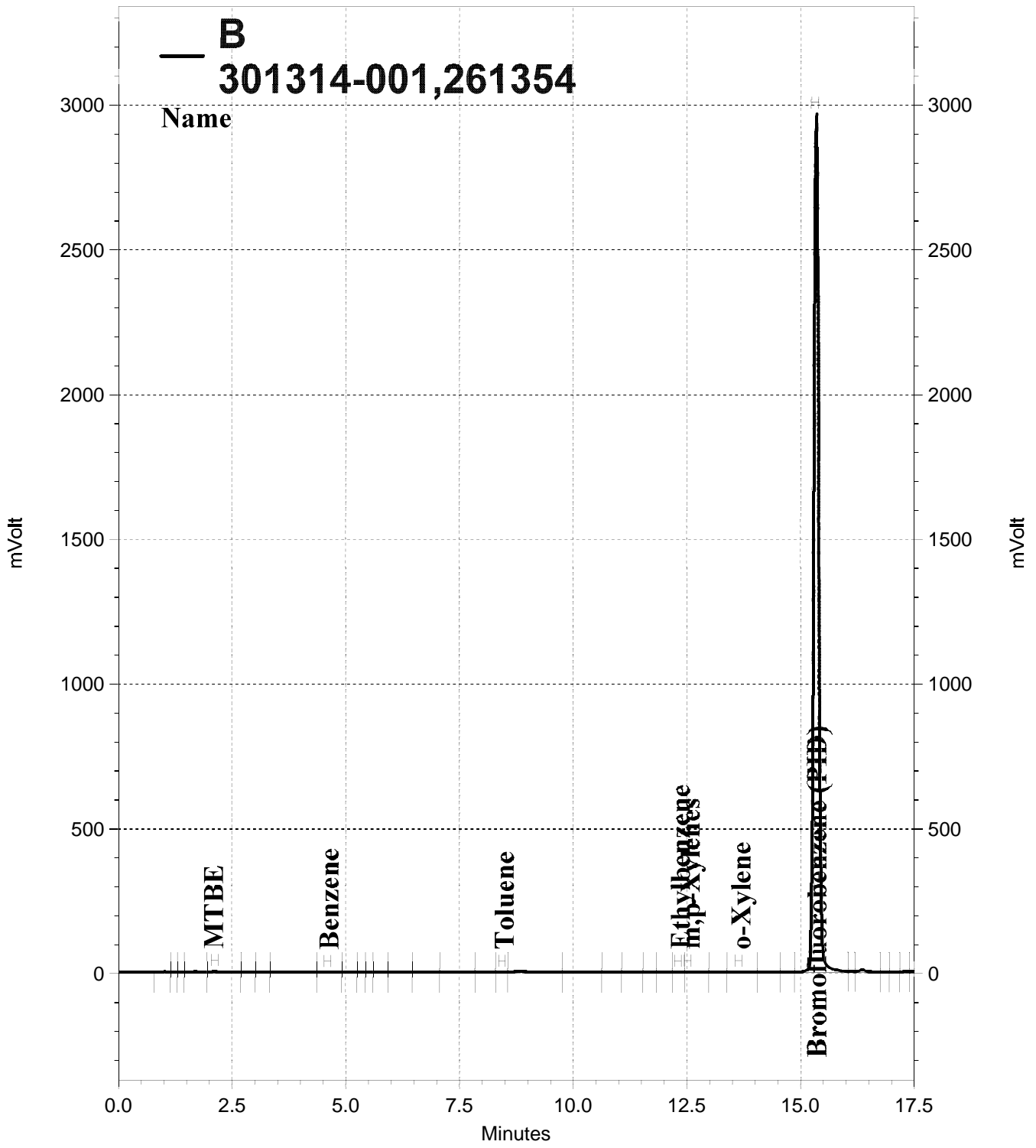
CJN 07/13/18 : Only reporting Gas

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18

+ = high bias - = low bias < = opening > = closing c = CCV u = use

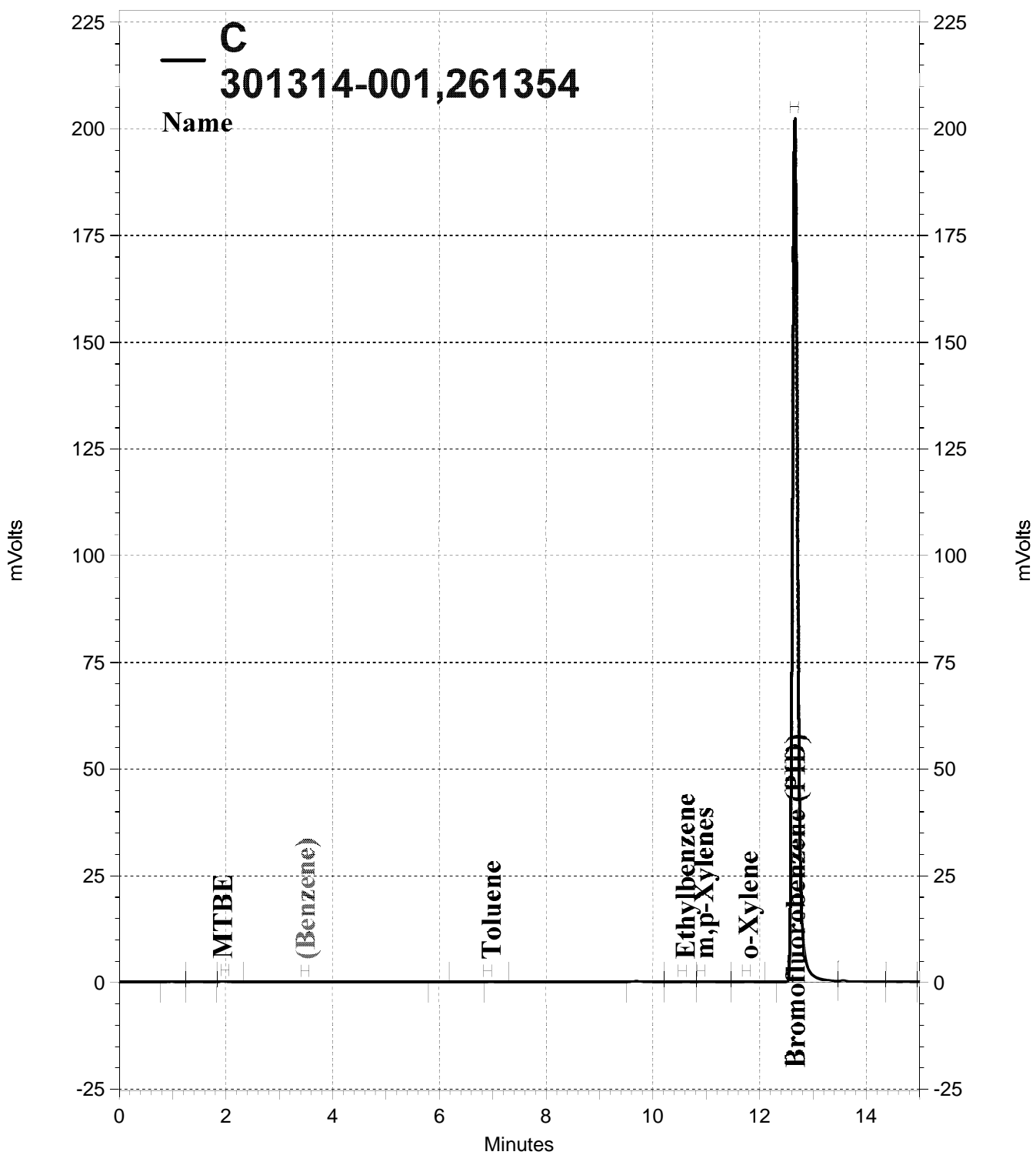


— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-017, A



B
301314-001,261354
Name

\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-017, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-017, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: 301314-001,261354
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-017
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/12/2018 7:49:49 PM
Analysis Date: 7/12/2018 8:18:32 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1879578	839.959
GAS:6-10			101096	39.921
GAS:6-12			206175	64.779
GAS:7-12			189378	75.647
JP4:7-12			189378	50.512

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.100	2.117	51654	4.482
Benzene	4.633	4.600	8358	0.248
Toluene	8.483	8.433	11264	0.356
Ethylbenzene	12.350	12.300	9474	0.343
m,p-Xylenes	12.567	12.517	17429	0.507
o-Xylene	13.683	13.633	18088	0.643
Bromofluorobenzene (PID)	15.350	15.317	21473690	843.258

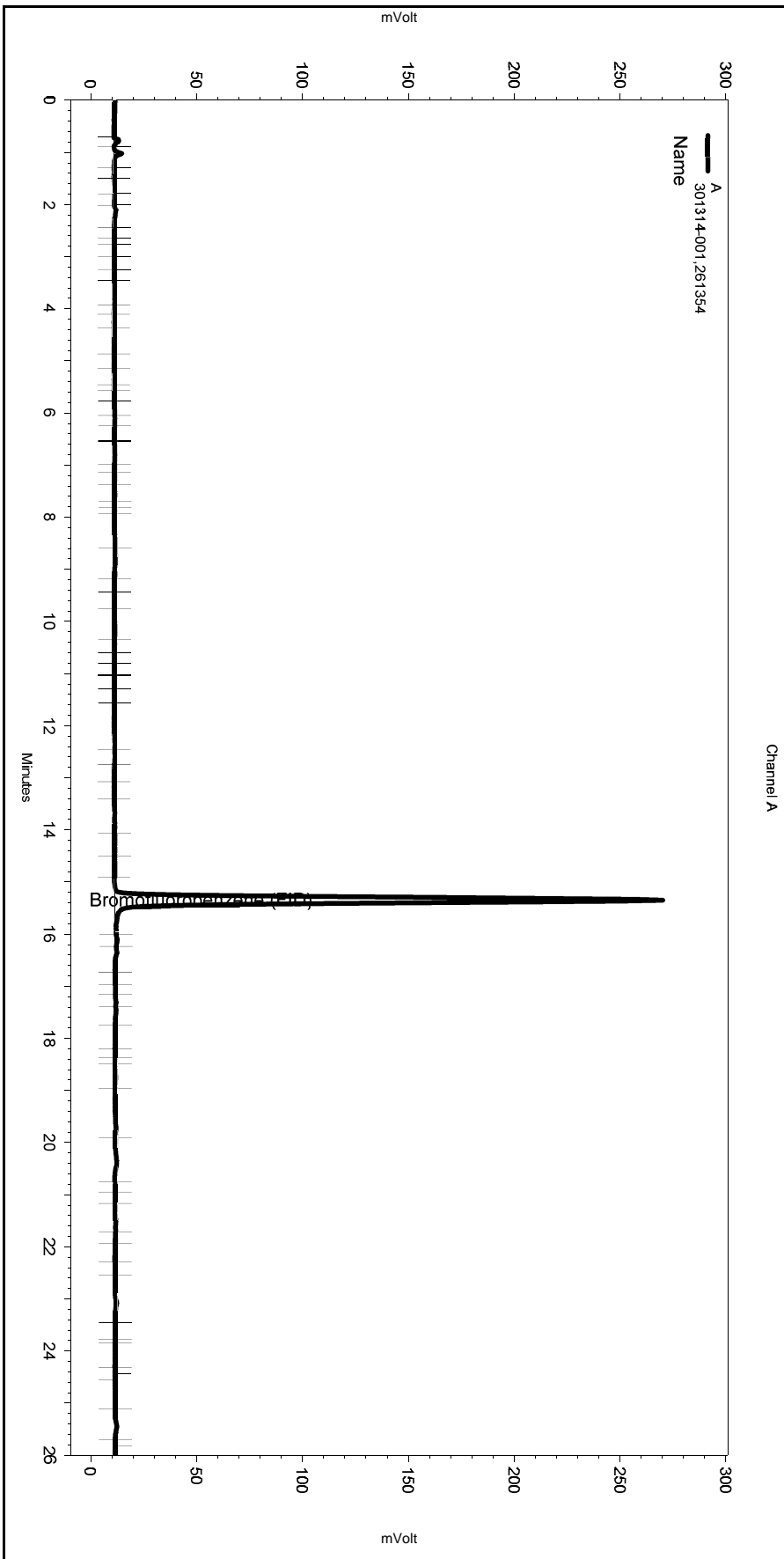
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.933	1.983	1516	2.104
Benzene		3.483		0.000 BDL
Toluene	6.966	6.900	429	0.216
Ethylbenzene	10.599	10.549	500	0.306
m,p-Xylenes	10.949	10.899	941	0.423
o-Xylene	11.783	11.749	682	0.355
Bromofluorobenzene (PID)	12.666	12.649	1401106	808.554

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-001,261354
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-017
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 7:49:49 PM
 Analysis Date: 7/12/2018 8:18:32 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

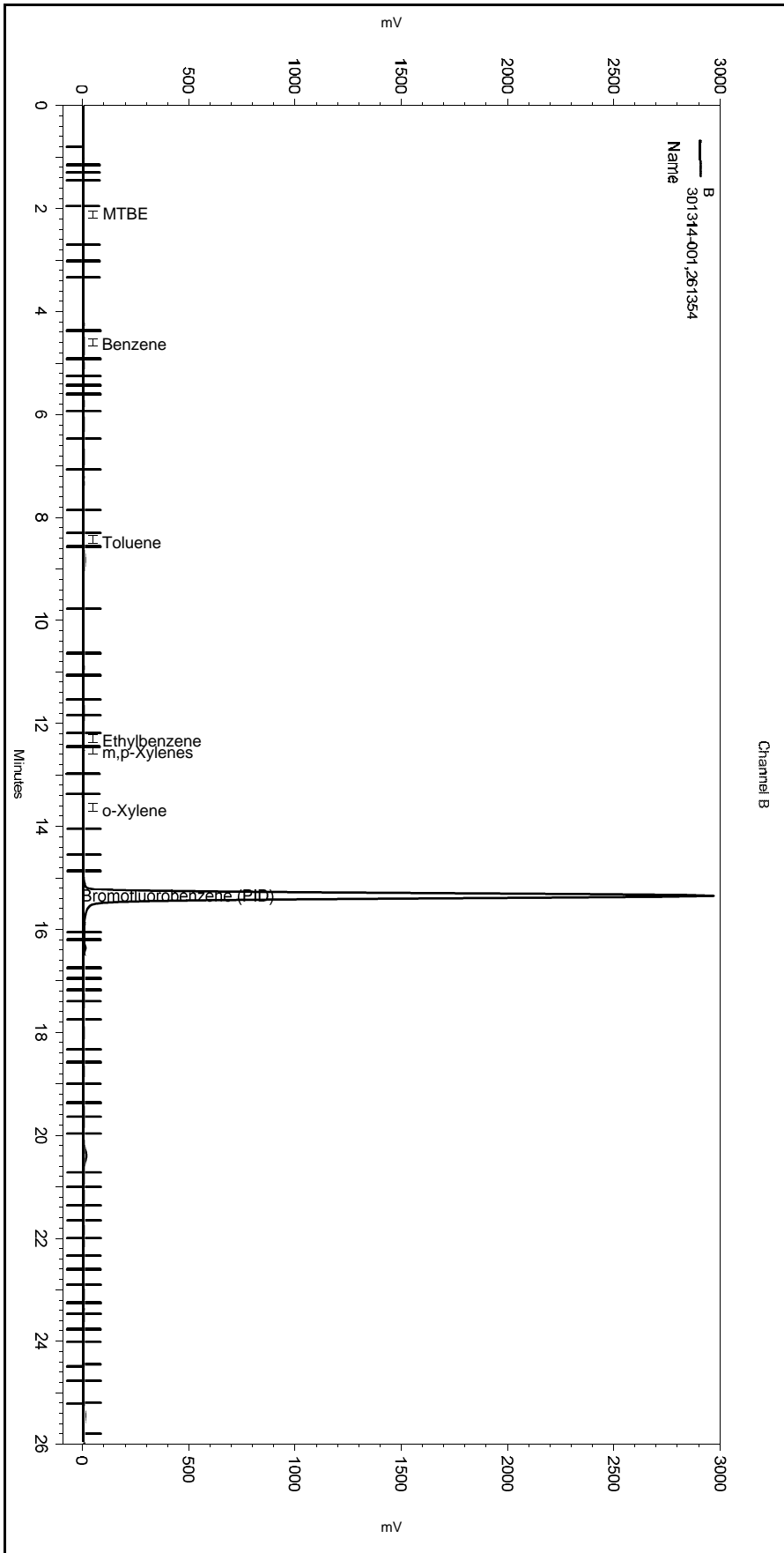
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-017_65D5.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-001,261354
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-017
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 7:49:49 PM
 Analysis Date: 7/12/2018 8:18:32 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

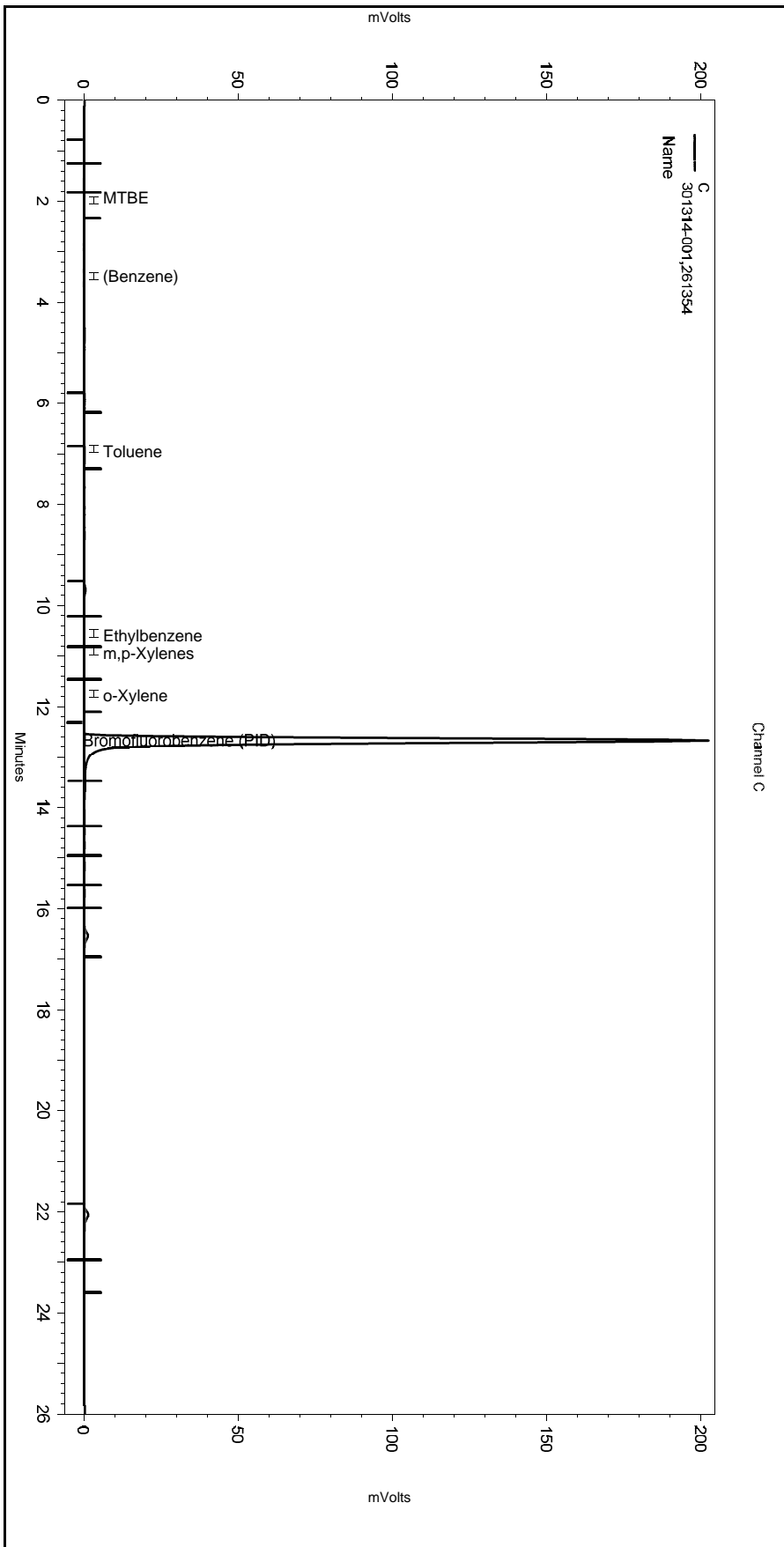
=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-017_65D5.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-001,261354
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-017
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 7:49:49 PM
 Analysis Date: 7/12/2018 8:18:32 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-017_65D5.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 301314-002 Client ID : BR11-1GW03
 Seqnum : 328277310010 Matrix : Water Acct : TRC-SF (MJD)
 File : 192_010 Batch : 261329 Time : 11-JUL-2018 19:41
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

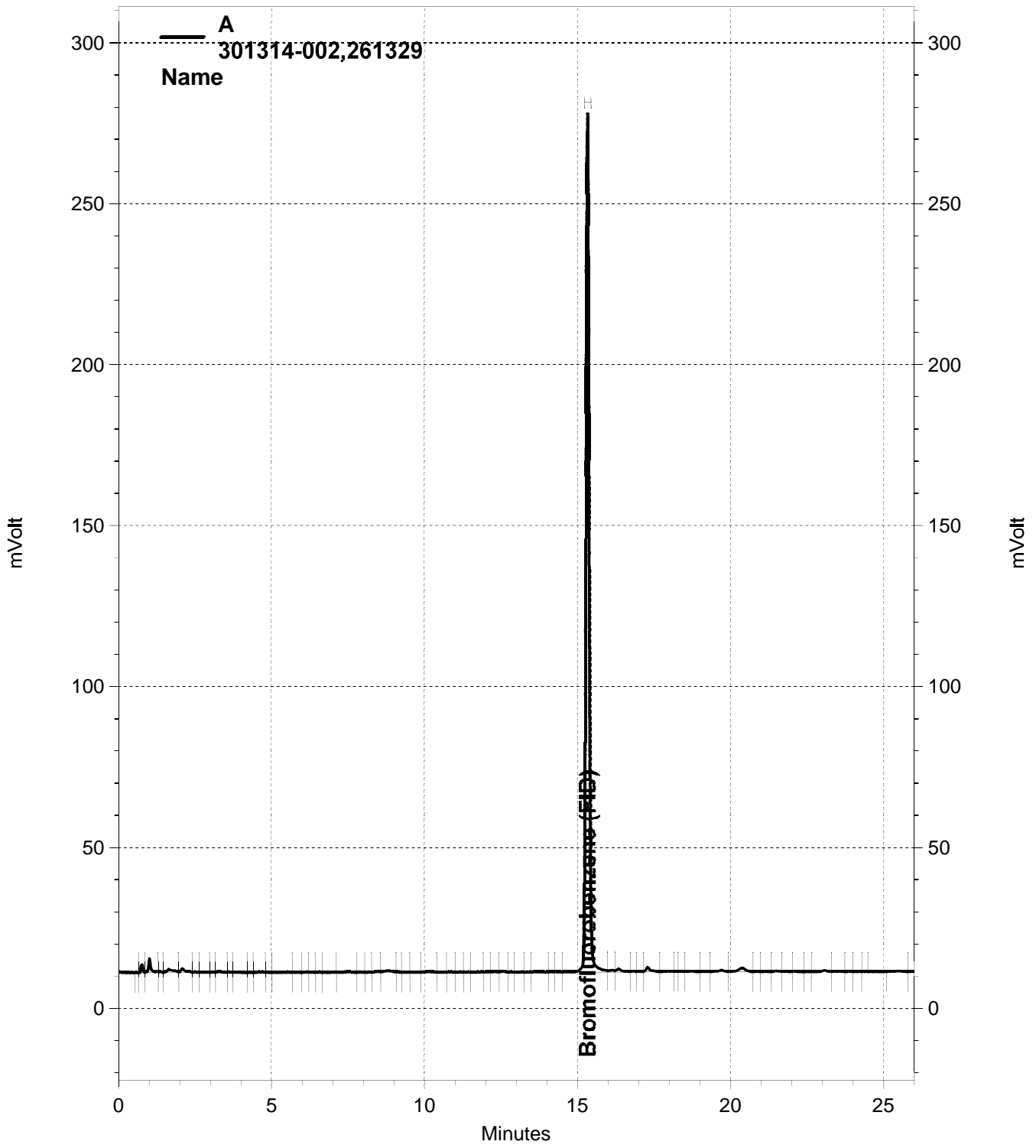
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328275574001	79.79	16 J			50	21	>c- b*
Benzene	C	328176634001	0.06252	ND	ND	104%	0.50		u
Toluene	C	328176634001	0.3965	ND	ND	13%	0.50		u
Ethylbenzene	C	328176634001	0	ND	ND		0.50	0.15	u
m,p-Xylenes	C	328176634001	0.07380	ND	ND	134%	0.50	0.25	u
o-Xylene	C	328176634001	0.1584	ND	ND		0.50		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328275574001	875.2	180.0	175.0	97	79-120	>c-
Bromofluorobenzene (PID)	C	328176634001	819.7	180.0	163.9	91	71-127	>c- u

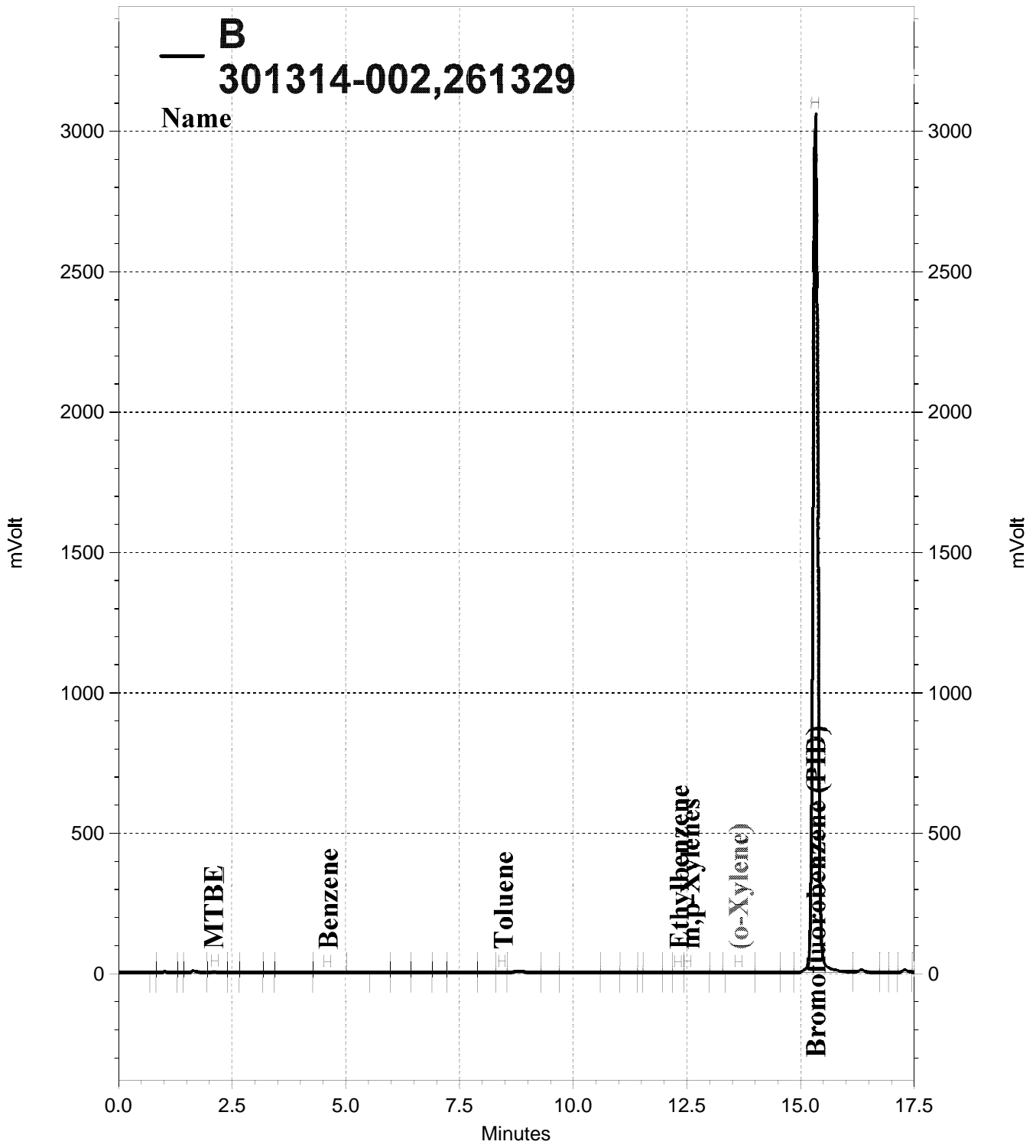
CJN 07/12/18 : Closing out low for Gas C7-C12.

CJN: 07/12/18 * JM2: 07/13/18 EAH: 07/13/18

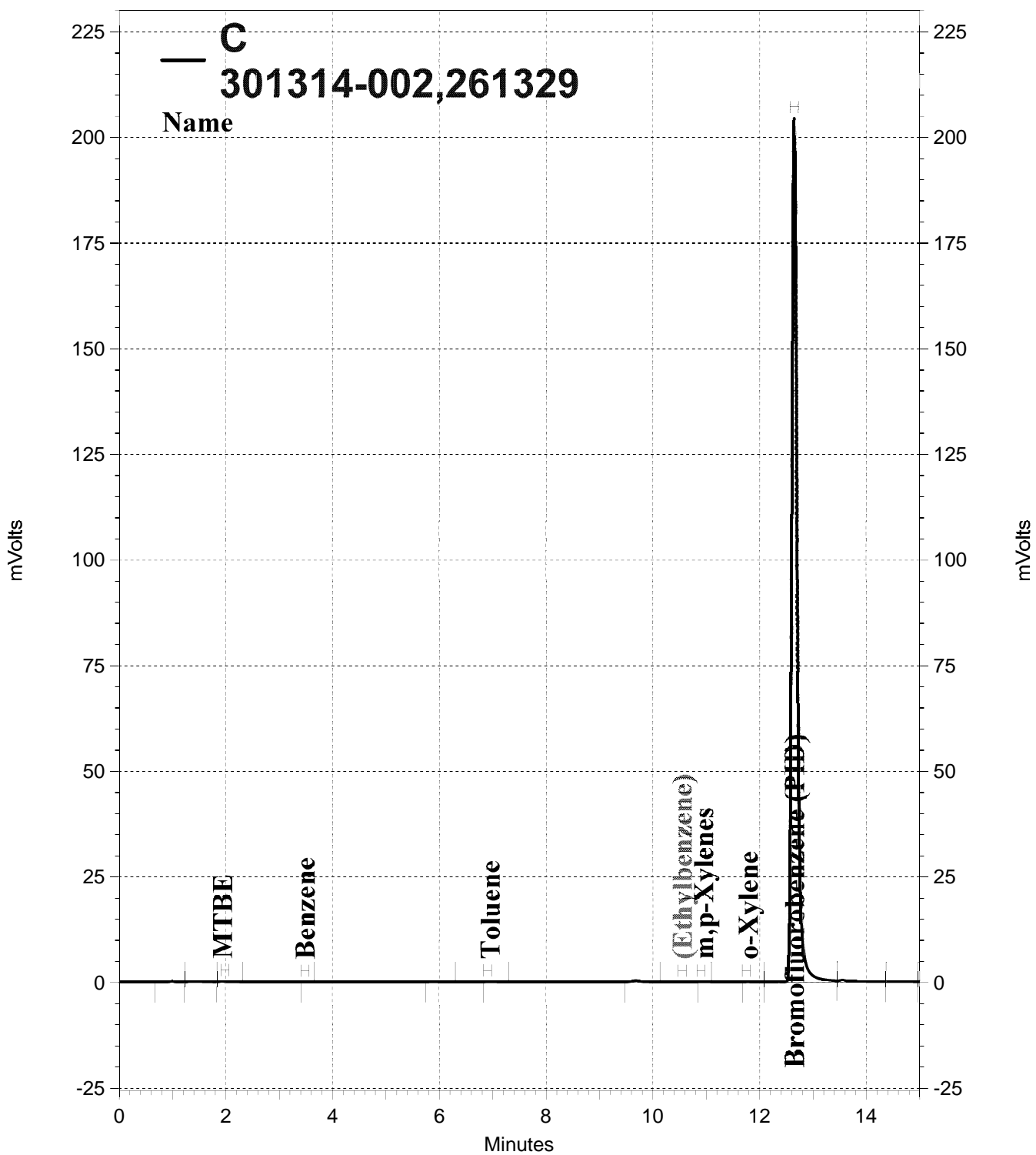
--low bias >=closing b=noncompliant c=CCV u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-010, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-010, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-010, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\192.seq
Sample Name: 301314-002,261329
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-010
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/11/2018 7:41:50 PM
Analysis Date: 7/11/2018 8:10:33 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1958354	875.163
GAS:6-10			102530	40.487
GAS:6-12			217067	68.201
GAS:7-12			199754	79.791
JP4:7-12			199754	53.279

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.100	2.117	39247	3.405
Benzene	4.617	4.600	6672	0.198
Toluene	8.467	8.433	14218	0.450
Ethylbenzene	12.333	12.300	6271	0.227
m,p-Xylenes	12.567	12.517	12871	0.374
o-Xylene		13.633		0.000 BDL
Bromofluorobenzene (PID)	15.333	15.317	22406116	879.874

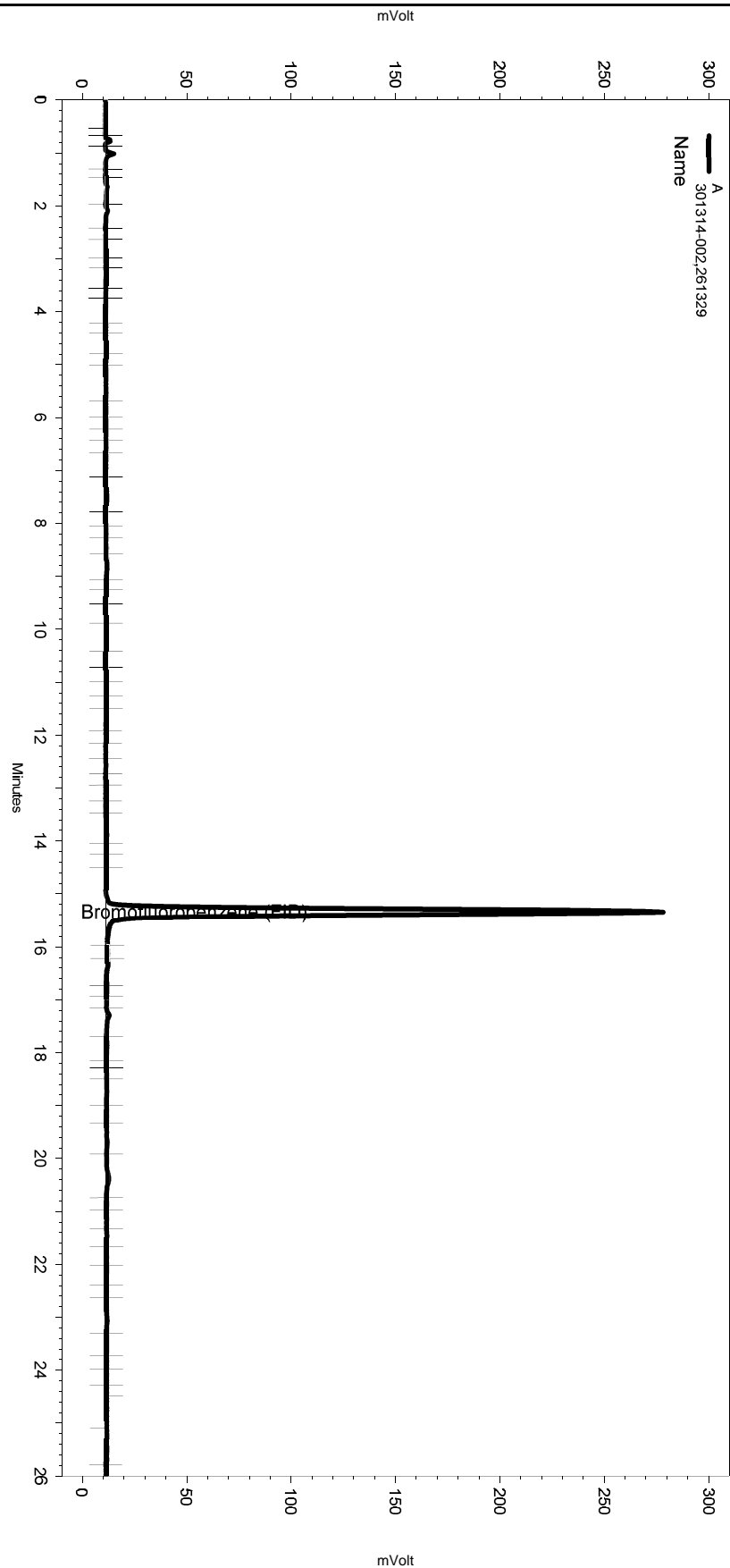
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.933	1.983	1453	2.016
Benzene	3.483	3.483	135	0.063
Toluene	6.950	6.900	786	0.397
Ethylbenzene		10.549		0.000 BDL
m,p-Xylenes	10.949	10.899	164	0.074
o-Xylene	11.783	11.749	304	0.158
Bromofluorobenzene (PID)	12.649	12.649	1420392	819.684

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-002,261329
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-010
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 7:41:50 PM
 Analysis Date: 7/11/2018 8:10:33 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

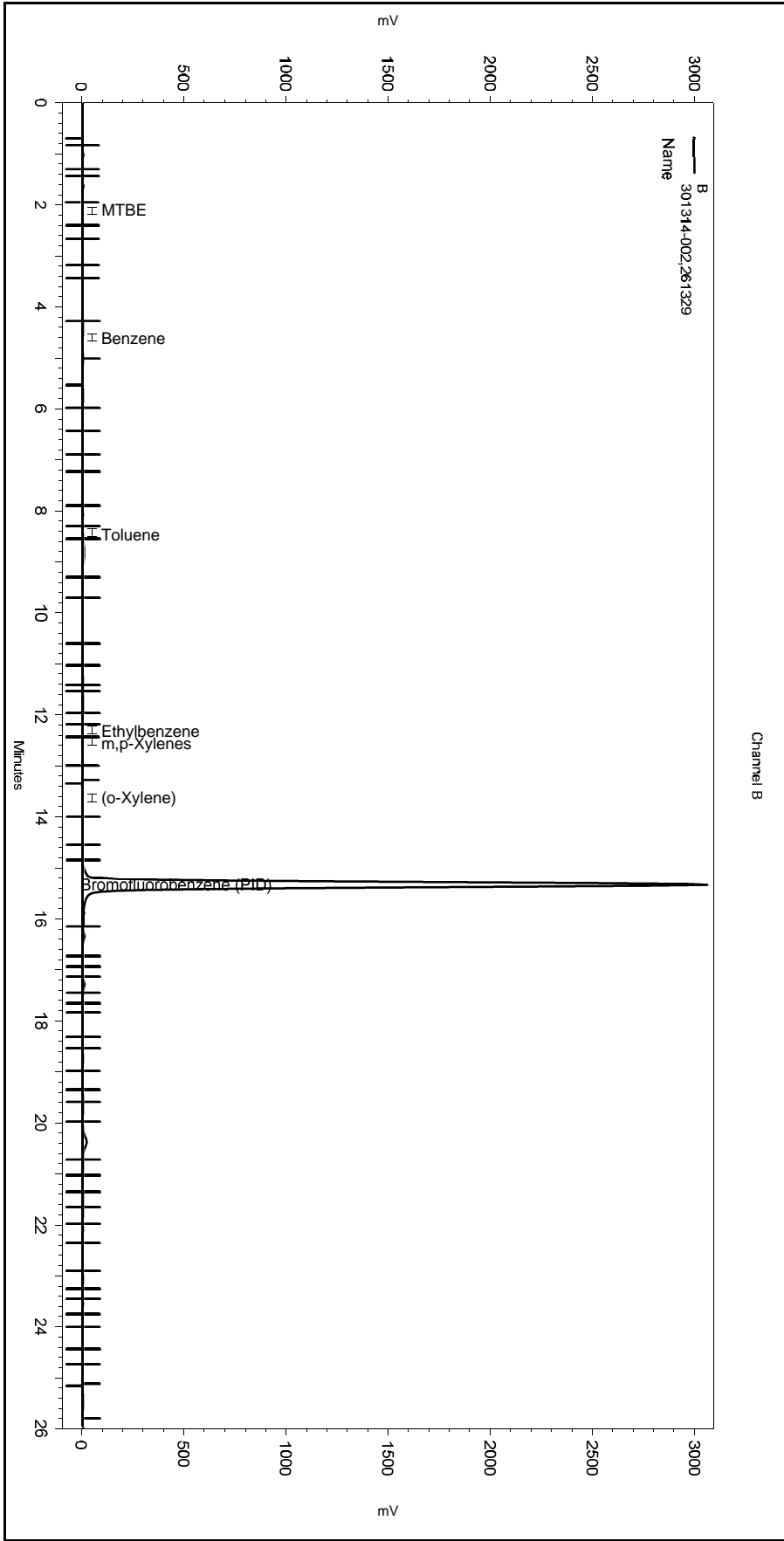
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-010_65B2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-002,261329
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-010
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 7:41:50 PM
 Analysis Date: 7/11/2018 8:10:33 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

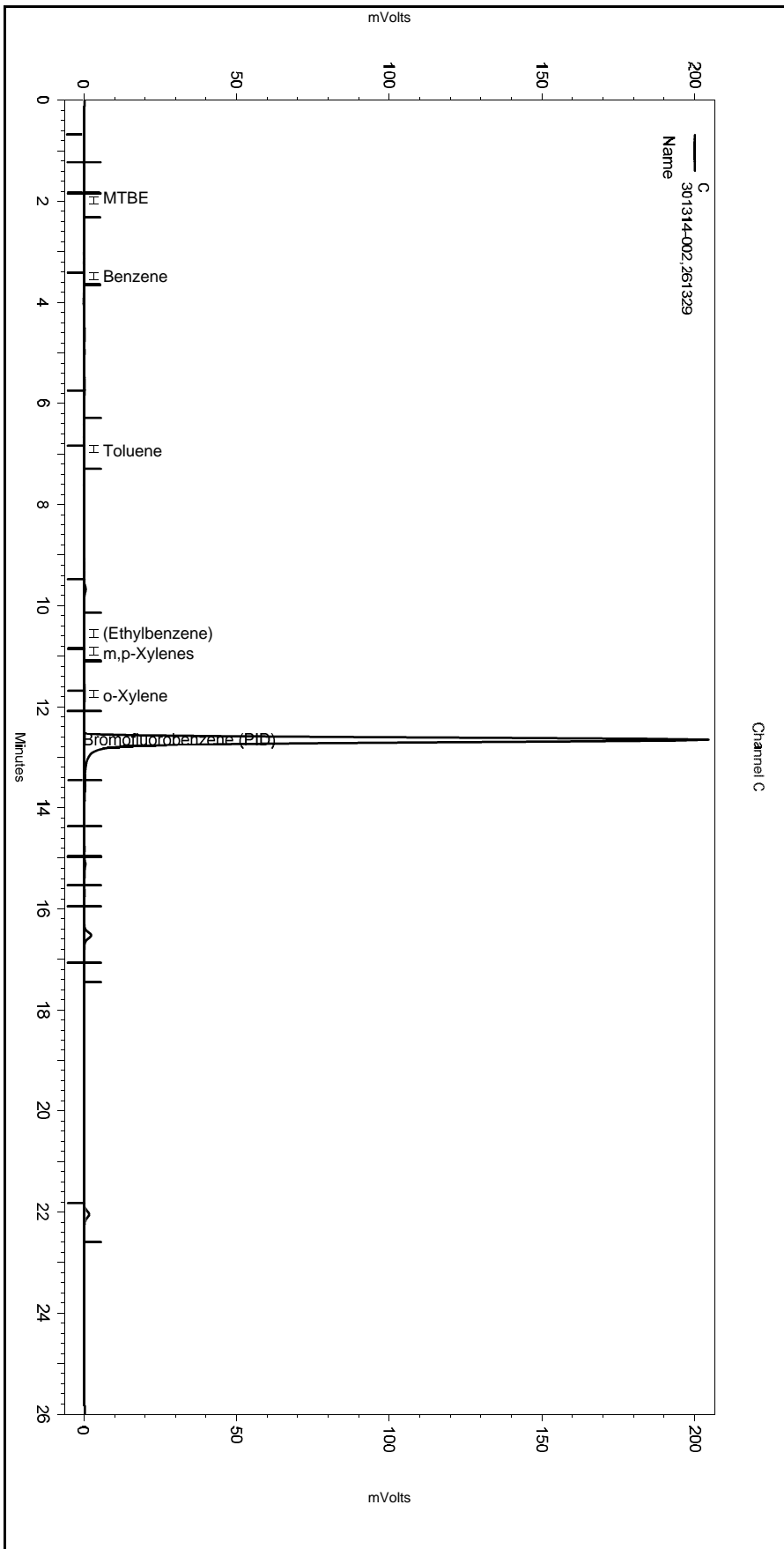
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-010_65B2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-002,261329
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-010
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 7:41:50 PM
 Analysis Date: 7/11/2018 8:10:33 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-010_65B2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 301314-002 Client ID : BR11-1GW03
 Seqnum : 328278480018 Matrix : Water Acct : TRC-SF (MJD)
 File : 193_018 Batch : 261354 Time : 12-JUL-2018 20:28
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

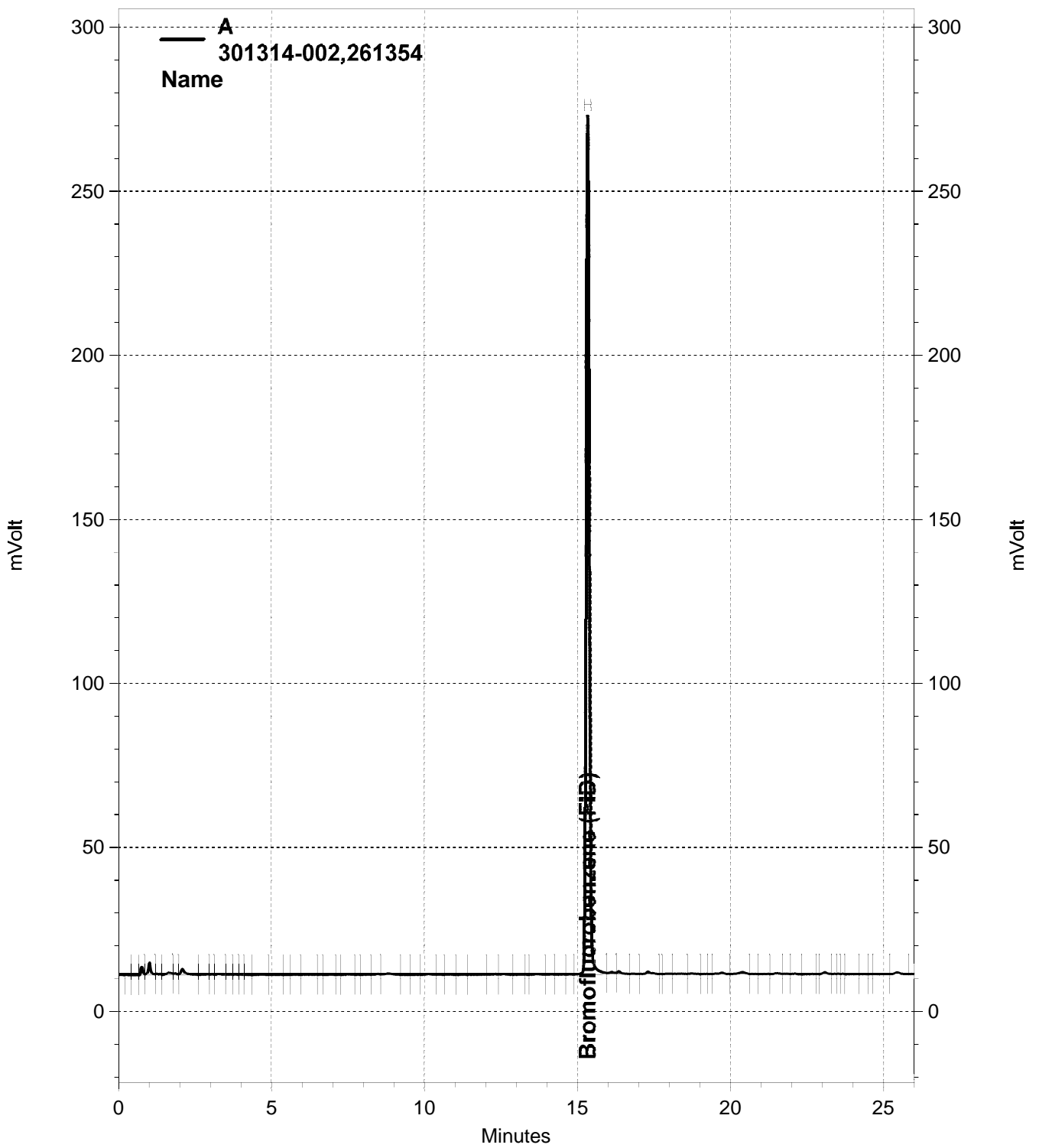
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328275574001	85.25	17 J			50	13	u
Benzene	C	328176634001	0.04770	ND	ND	154%	0.50		<c+
Toluene	C	328176634001	0.3627	ND	ND	26%	0.50		<c+
Ethylbenzene	C	328176634001	0	ND	ND		0.50		<c+
m,p-Xylenes	C	328176634001	0.1319	ND	ND	88%	0.50		
o-Xylene	C	328176634001	0.1542	ND	ND	51%	0.50		

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328275574001	855.2	180.0	171.0	95	79-120	u
Bromofluorobenzene (PID)	C	328176634001	821.9	180.0	164.4	91	71-127	>c-

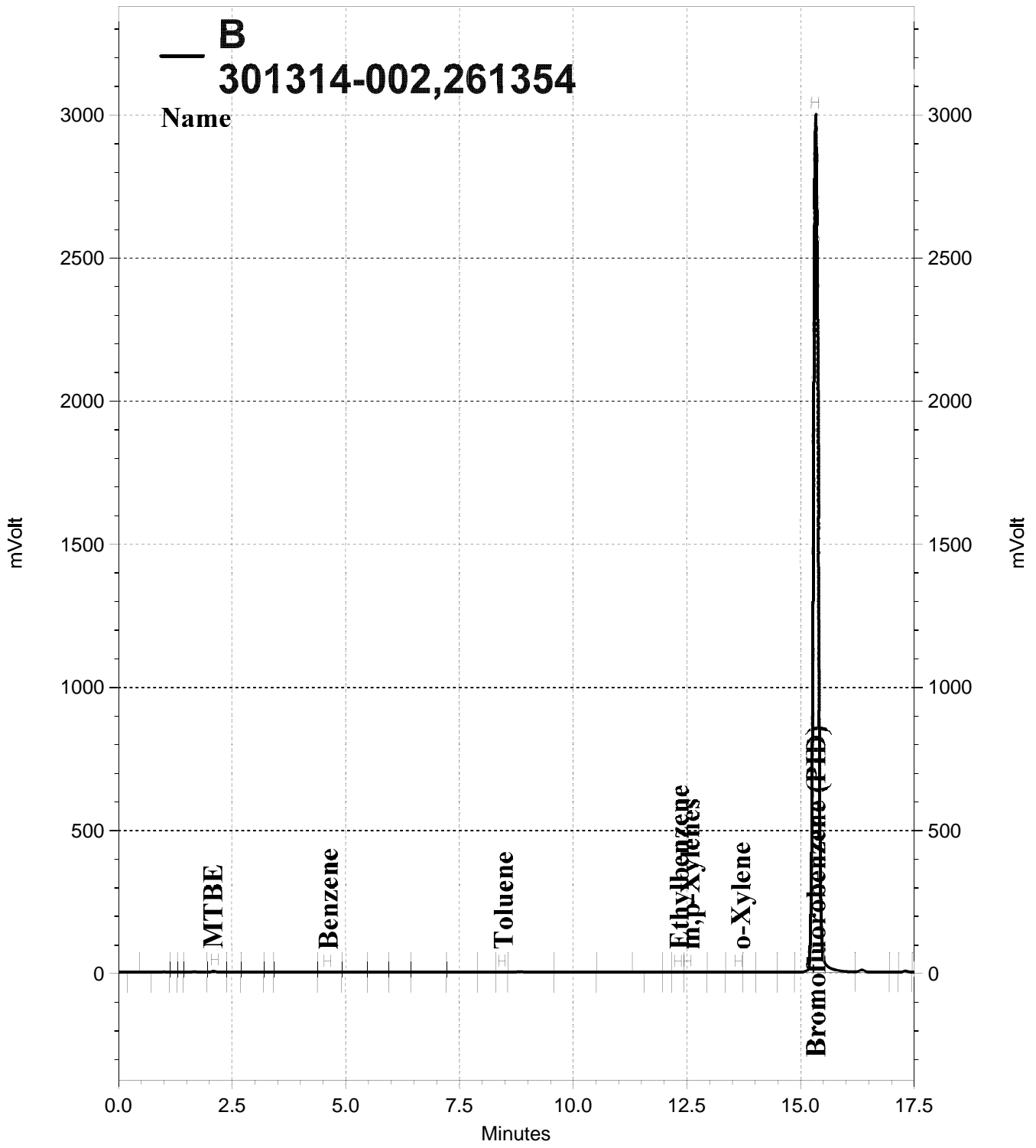
CJN 07/13/18 : Only reporting Gas

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18

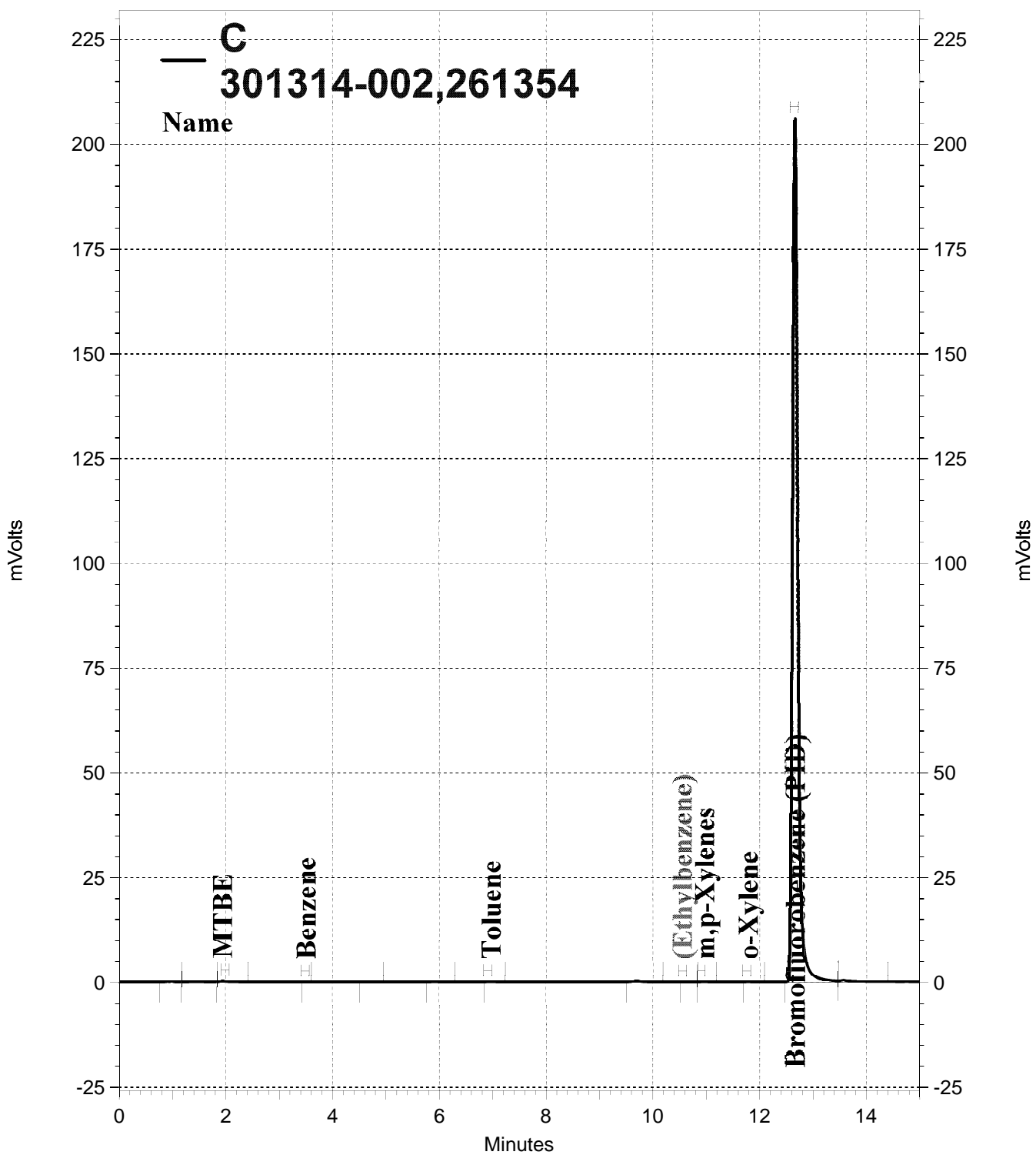
+ = high bias - = low bias < = opening > = closing c = CCV u = use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-018, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-018, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-018, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: 301314-002,261354
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-018
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/12/2018 8:28:04 PM
Analysis Date: 7/12/2018 8:56:47 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1913578	855.153
GAS:6-10			124521	49.171
GAS:6-12			235329	73.939
GAS:7-12			213416	85.248
JP4:7-12			213416	56.923

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.117	62206	5.397
Benzene	4.617	4.600	12402	0.368
Toluene	8.467	8.433	14891	0.471
Ethylbenzene	12.333	12.300	6343	0.230
m,p-Xylenes	12.567	12.517	11666	0.339
o-Xylene	13.683	13.633	7301	0.259
Bromofluorobenzene (PID)	15.333	15.317	21823696	857.002

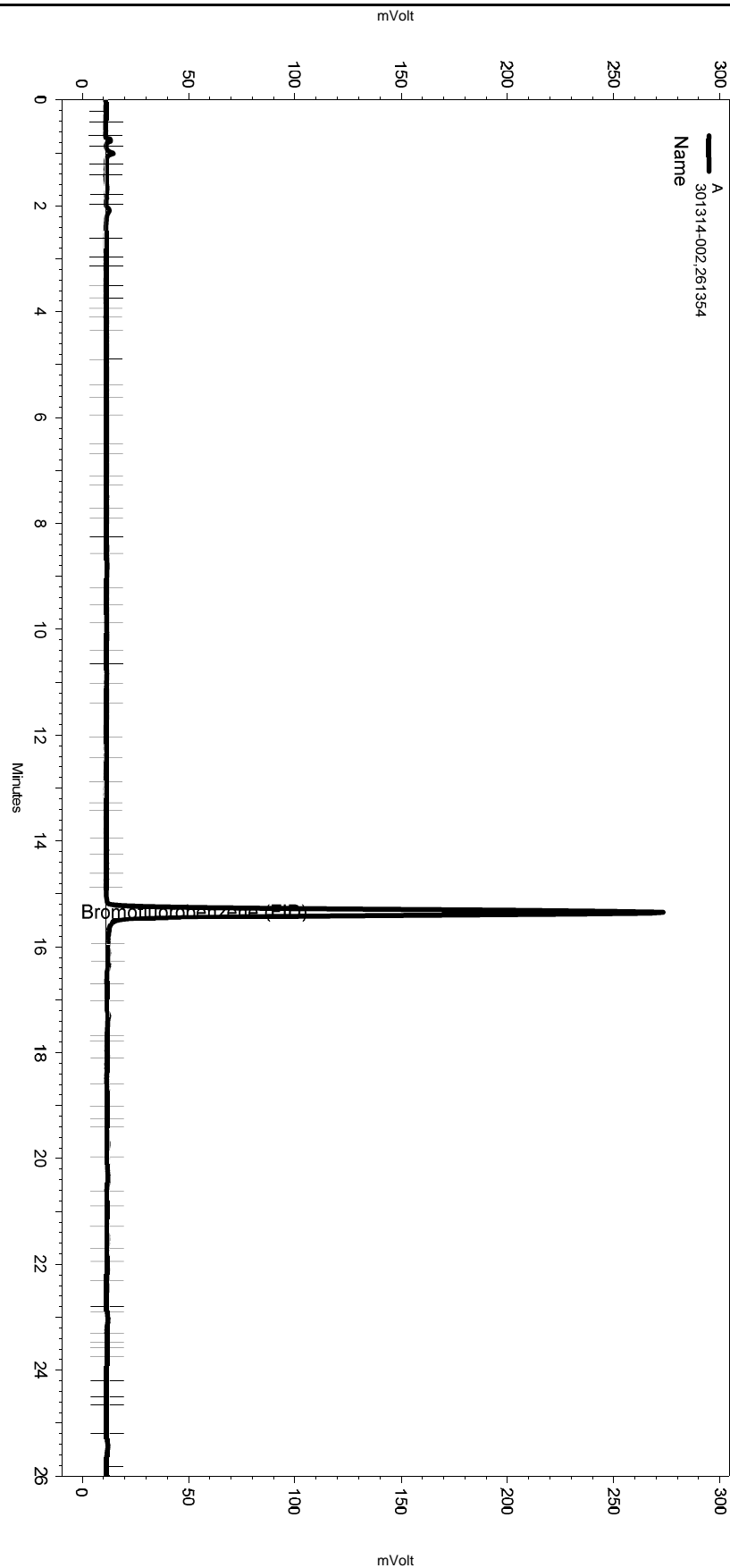
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.933	1.983	2479	3.440
Benzene	3.500	3.483	103	0.048
Toluene	6.966	6.900	719	0.363
Ethylbenzene		10.549		0.000 BDL
m,p-Xylenes	10.966	10.899	293	0.132
o-Xylene	11.783	11.749	296	0.154
Bromofluorobenzene (PID)	12.666	12.649	1424280	821.927

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-002,261354
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 8:28:04 PM
 Analysis Date: 7/12/2018 8:56:47 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

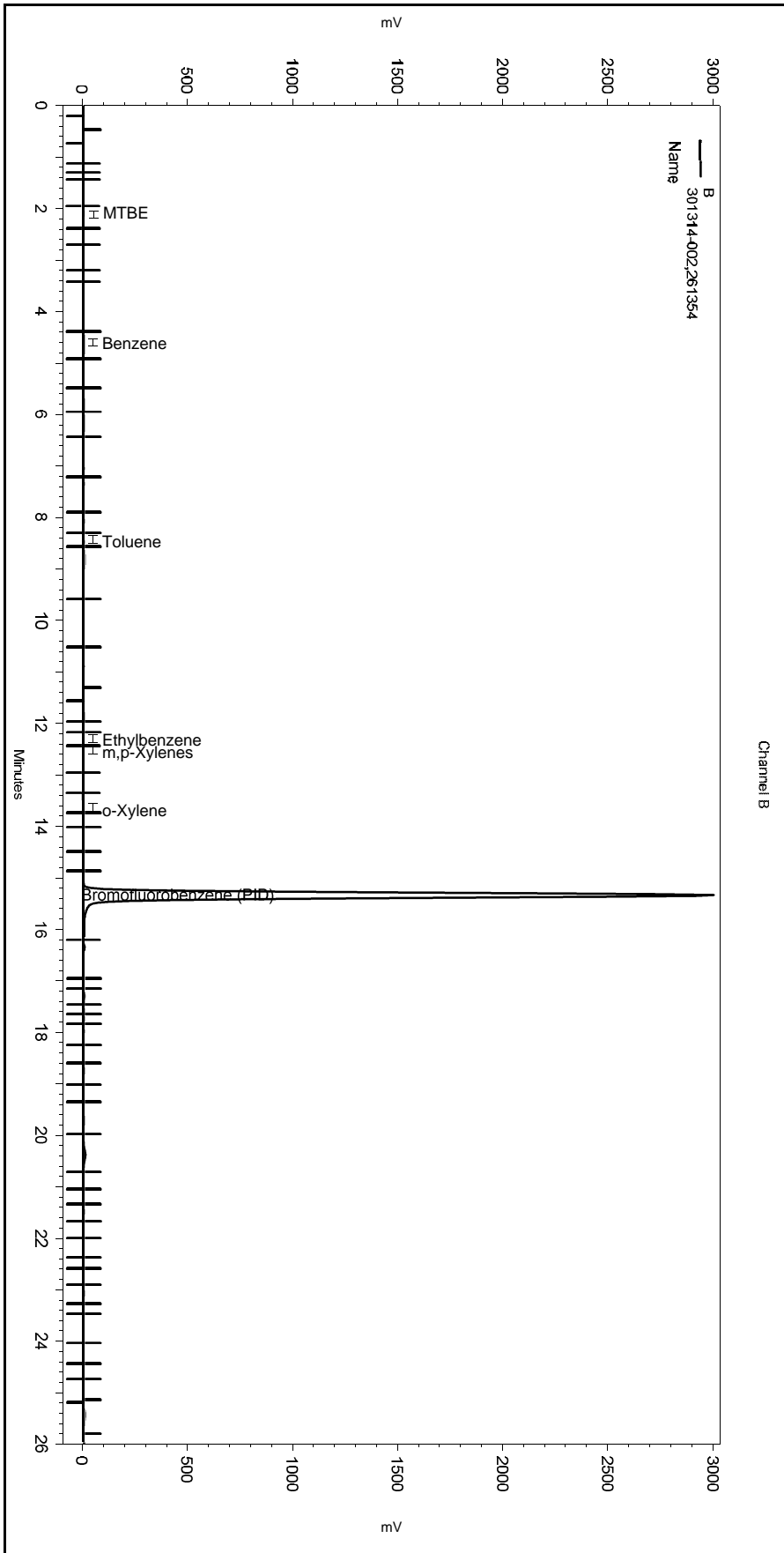
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-018_65D6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-002,261354
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 8:28:04 PM
 Analysis Date: 7/12/2018 8:56:47 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

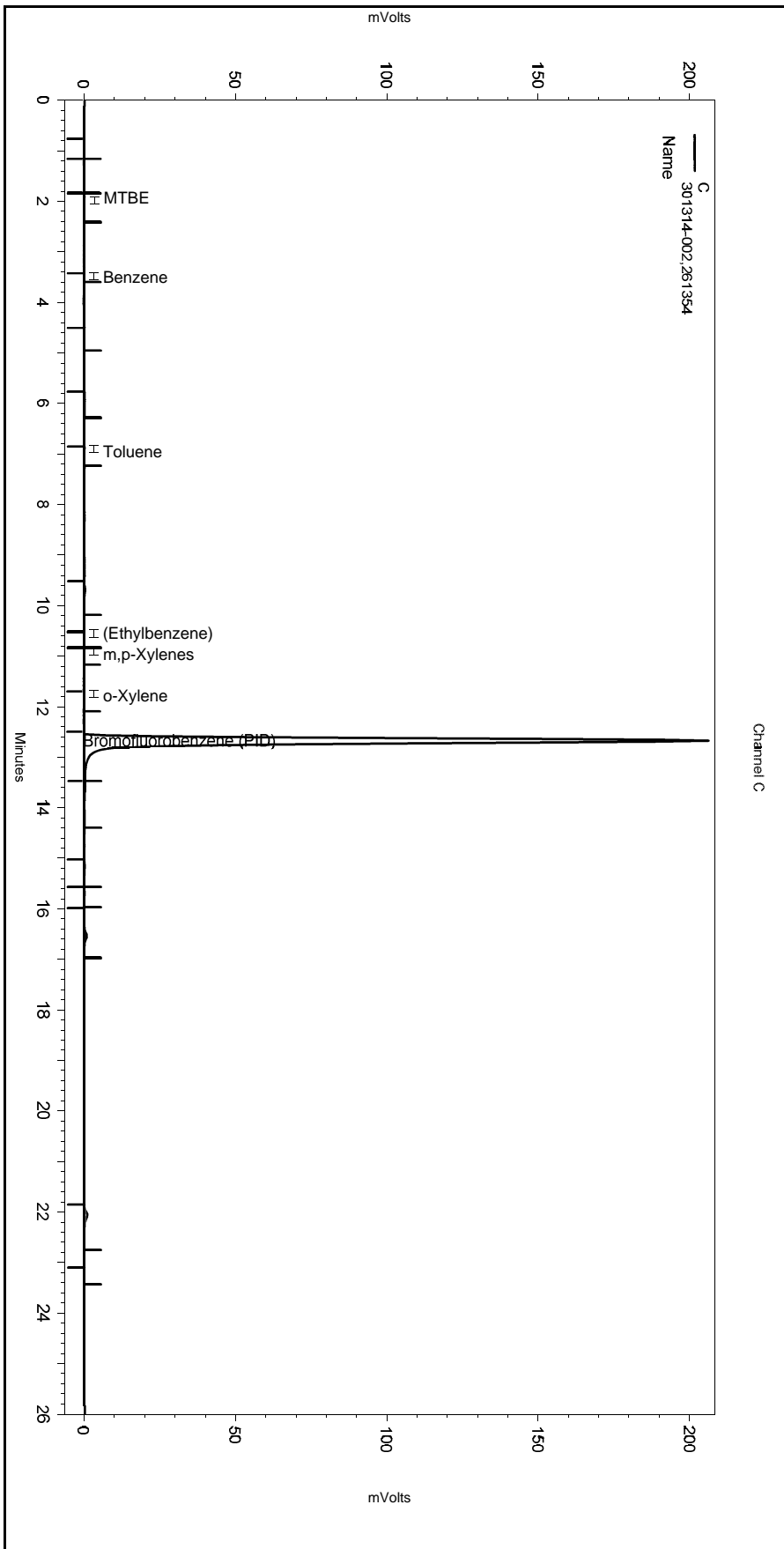
=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-018_65D6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-002,261354
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 8:28:04 PM
 Analysis Date: 7/12/2018 8:56:47 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-018_65D6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 301314-003 Client ID : BR11-1GW02
 Seqnum : 328277310011 Matrix : Water Acct : TRC-SF (MJD)
 File : 192_011 Batch : 261329 Time : 11-JUL-2018 20:20
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

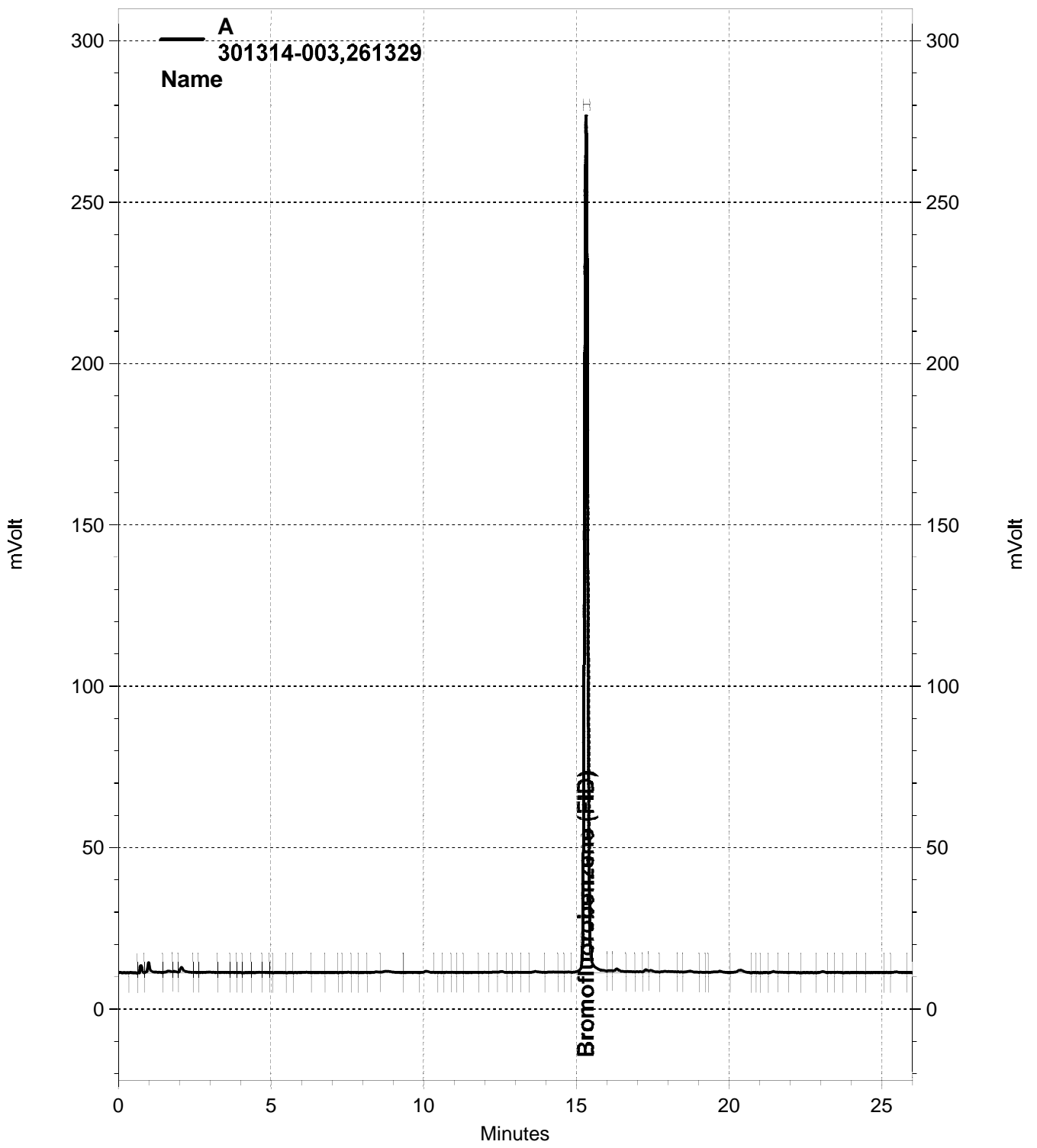
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328275574001	79.17	16 J			50	21	>c- b*
Benzene	C	328176634001	0.06344	ND	ND	140%	0.50		u
Toluene	C	328176634001	0.3340	ND	ND	32%	0.50		u
Ethylbenzene	C	328176634001	0	ND	ND		0.50	0.15	u
m,p-Xylenes	C	328176634001	0.1544	ND	ND	101%	0.50	0.25	u
o-Xylene	C	328176634001	0.2449	ND	ND	80%	0.50		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328275574001	871.2	180.0	174.2	97	79-120	>c-
Bromofluorobenzene (PID)	C	328176634001	818.8	180.0	163.8	91	71-127	>c- u

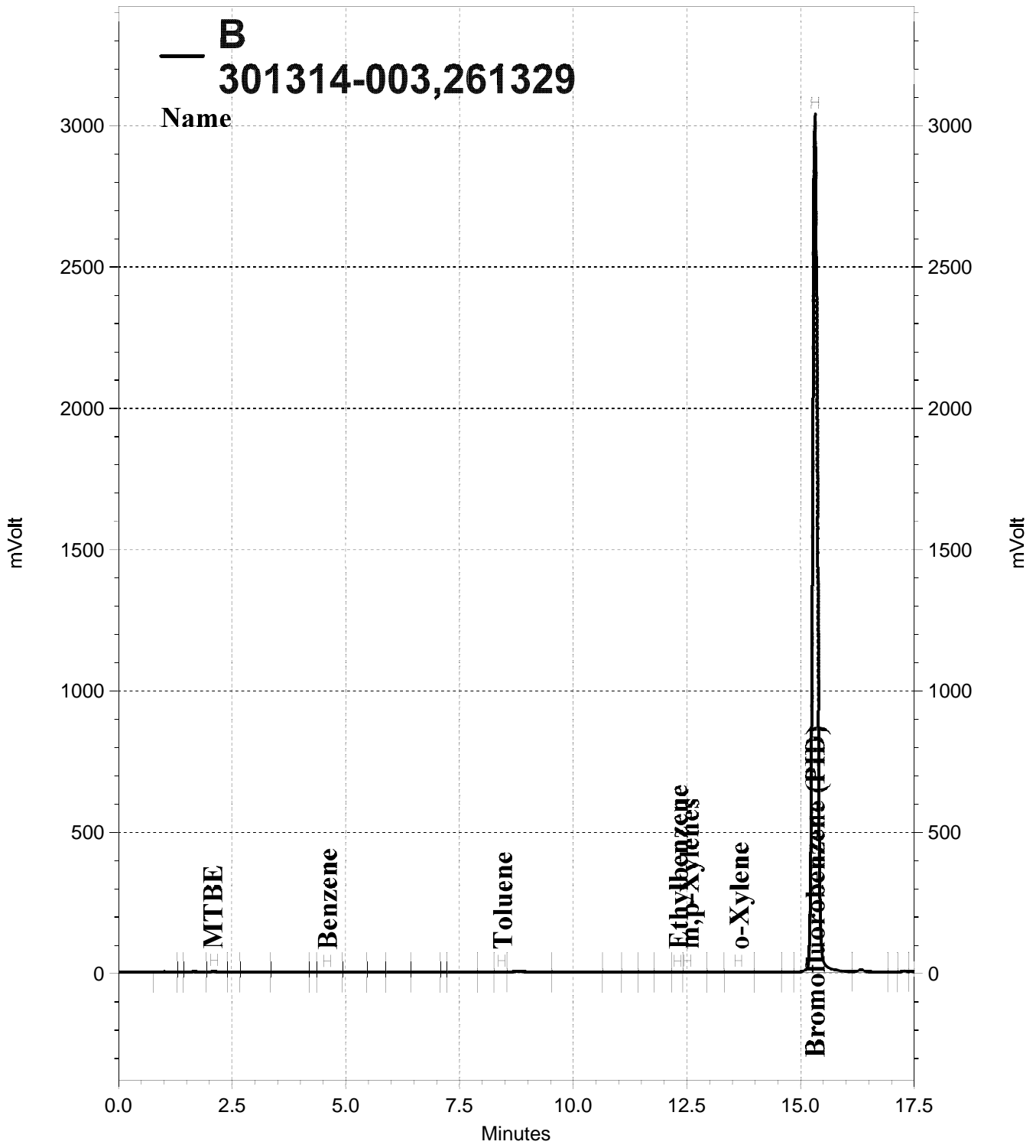
CJN 07/12/18 : Closing out low for Gas C7-C12.

CJN: 07/12/18 * JM2: 07/13/18 EAH: 07/13/18

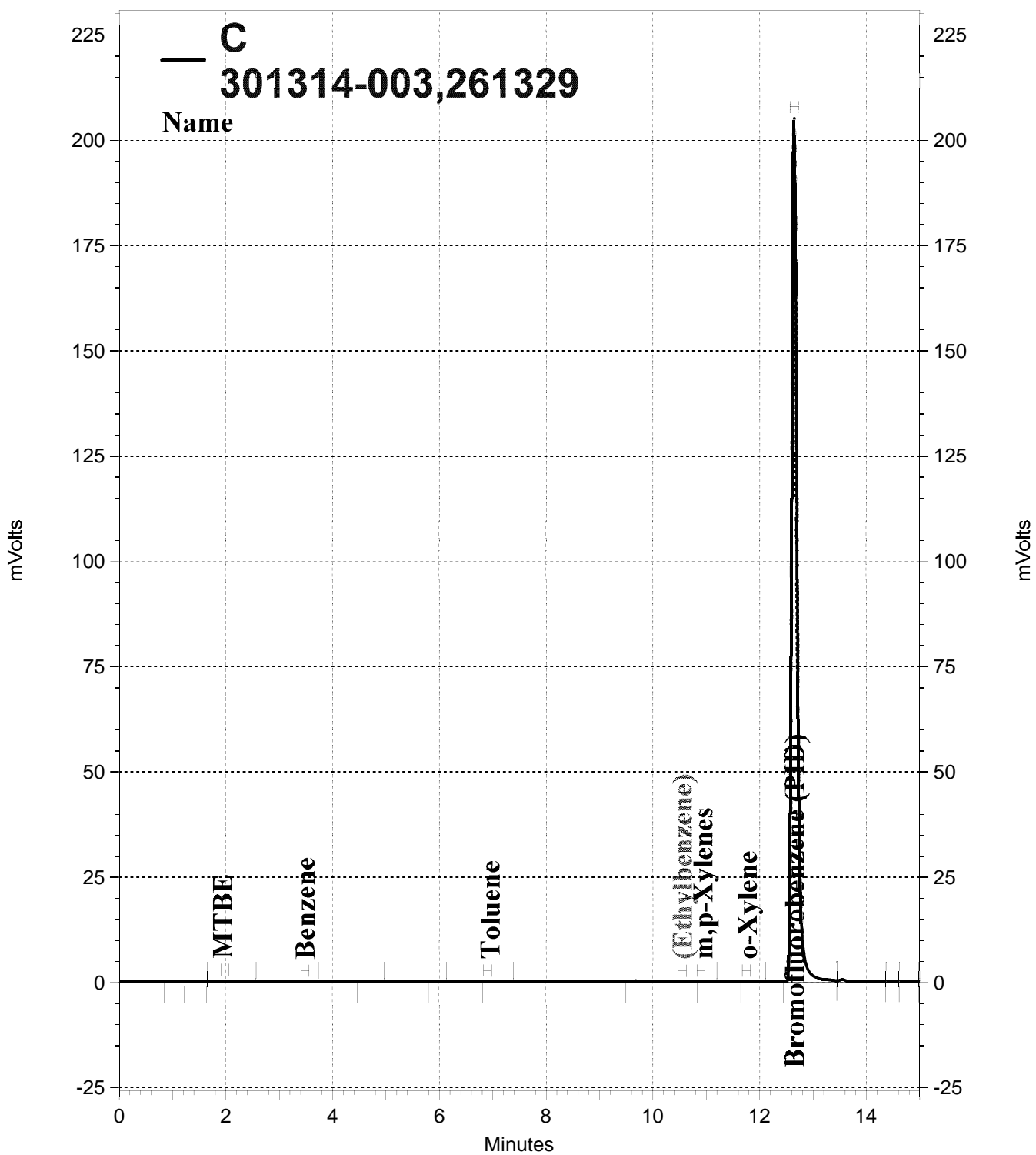
--low bias >=closing b=noncompliant c=CCV u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-011, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-011, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-011, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\192.seq
Sample Name: 301314-003,261329
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-011
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/11/2018 8:20:04 PM
Analysis Date: 7/11/2018 8:48:47 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.317	15.333	1949427	871.174
GAS:6-10			95706	37.792
GAS:6-12			216711	68.089
GAS:7-12			198202	79.171
JP4:7-12			198202	52.865

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.117	47202	4.095
Benzene	4.600	4.600	12017	0.356
Toluene	8.450	8.433	14634	0.463
Ethylbenzene	12.317	12.300	6660	0.241
m,p-Xylenes	12.550	12.517	16150	0.469
o-Xylene	13.650	13.633	16042	0.570
Bromofluorobenzene (PID)	15.317	15.317	22136724	869.295

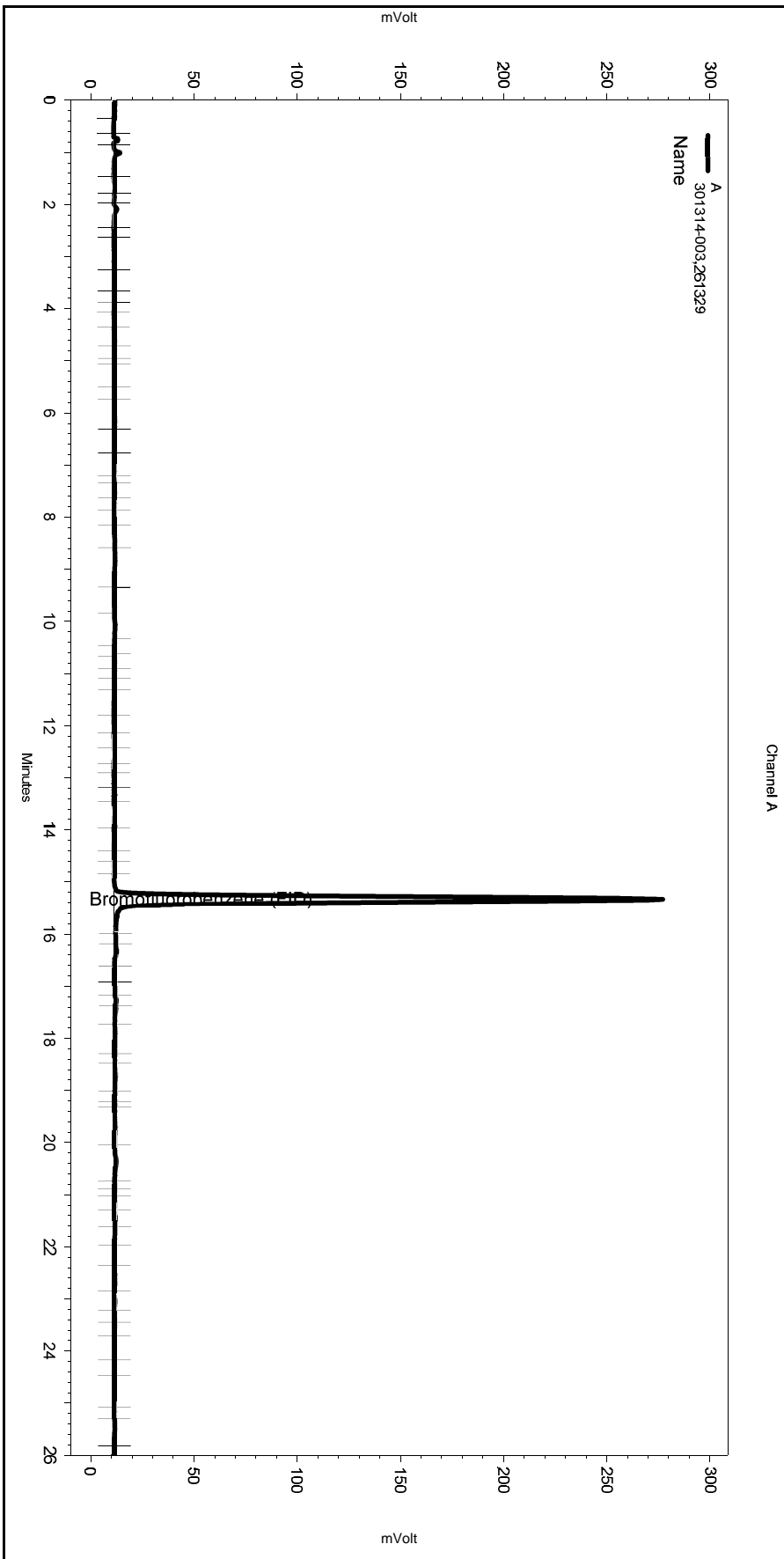
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.933	1.983	2360	3.275
Benzene	3.483	3.483	137	0.063
Toluene	6.950	6.900	662	0.334
Ethylbenzene		10.549		0.000 BDL
m,p-Xylenes	10.933	10.899	343	0.154
o-Xylene	11.766	11.749	470	0.245
Bromofluorobenzene (PID)	12.649	12.649	1418927	818.838

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-003,261329
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-011
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 8:20:04 PM
 Analysis Date: 7/11/2018 8:48:47 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

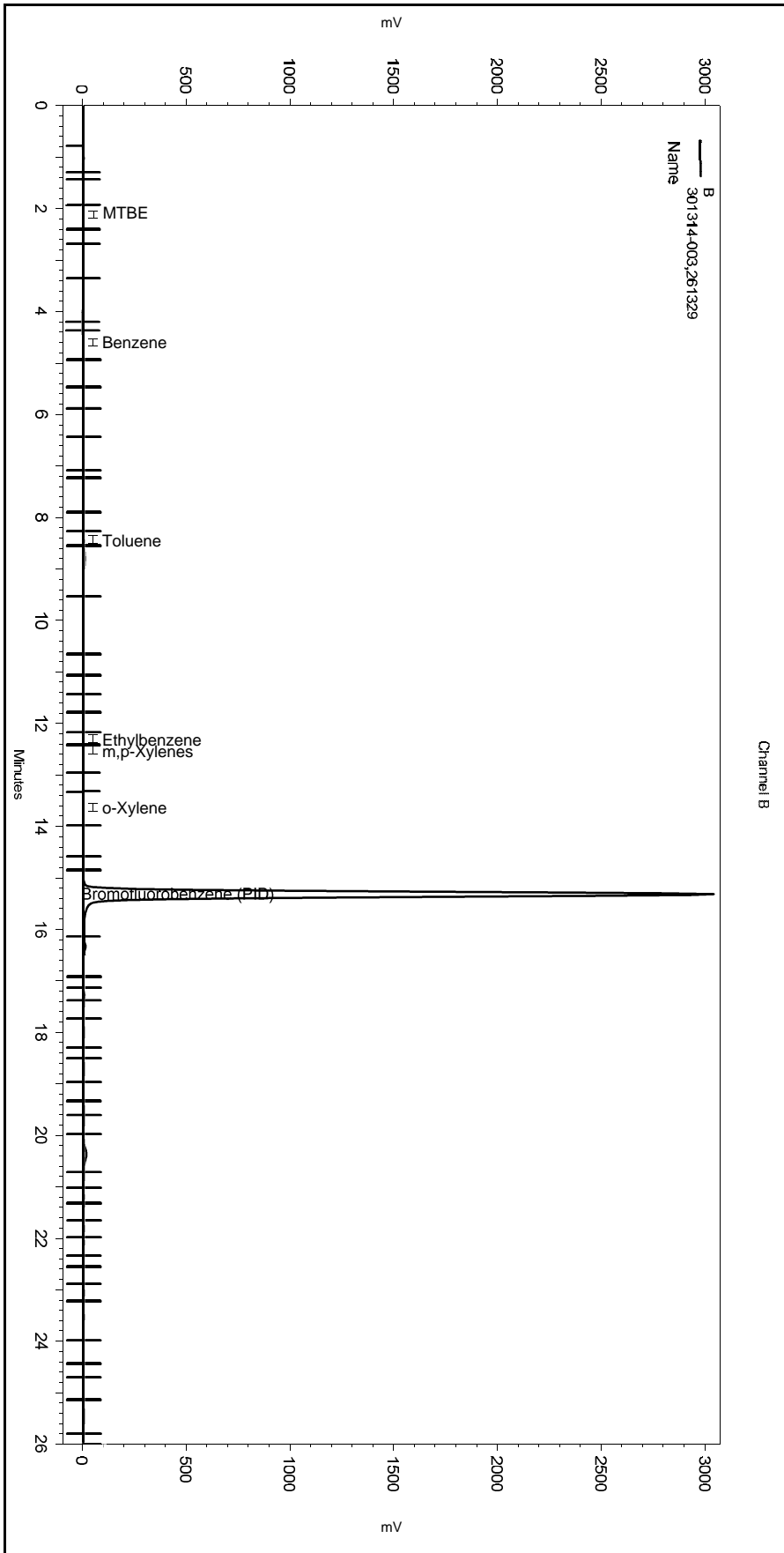
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-011_65B3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-003,261329
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-011
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 8:20:04 PM
 Analysis Date: 7/11/2018 8:48:47 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

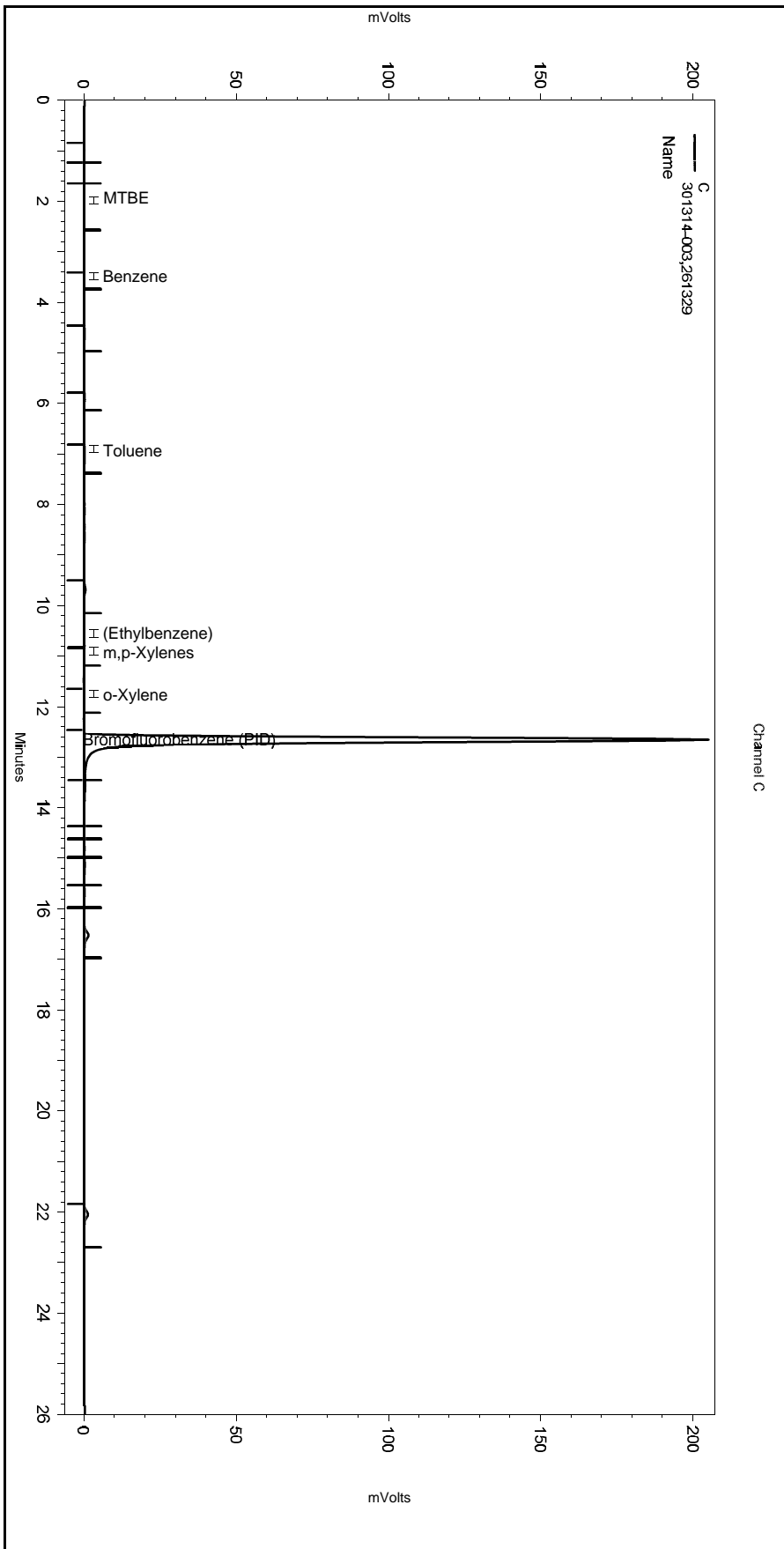
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-011_65B3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-003,261329
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-011
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 8:20:04 PM
 Analysis Date: 7/11/2018 8:48:47 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-011_65B3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 301314-003 Client ID : BR11-1GW02
 Seqnum : 328278480019 Matrix : Water Acct : TRC-SF (MJD)
 File : 193_019 Batch : 261354 Time : 12-JUL-2018 21:06
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

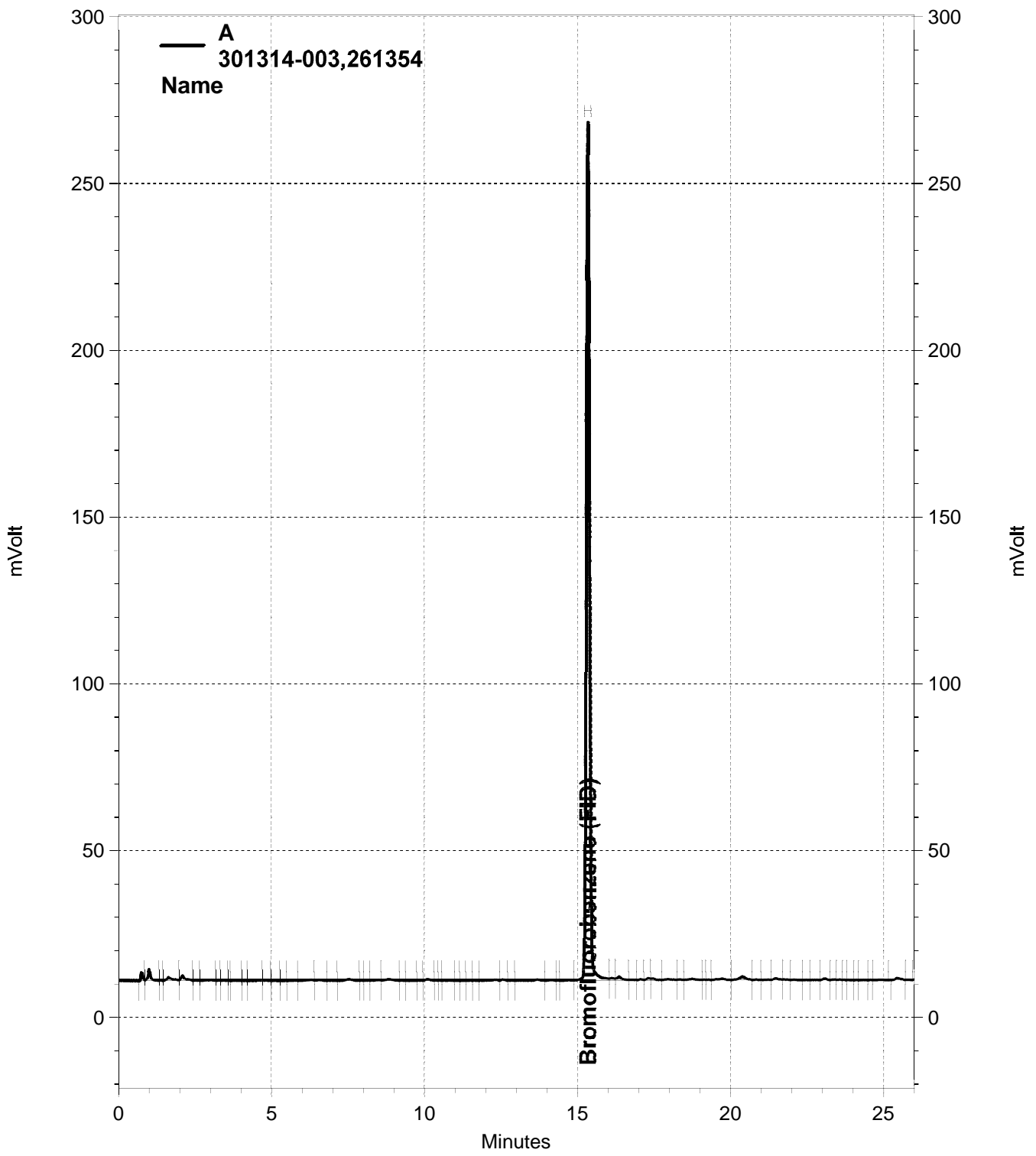
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328275574001	90.40	18 J			50	13	u
Benzene	C	328176634001	0	ND	0.11 J		0.50		<c+
Toluene	C	328176634001	0.7043	0.14 J	ND	52%	0.50		<c+ C x
Ethylbenzene	C	328176634001	0	ND	ND		0.50		<c+
m,p-Xylenes	C	328176634001	0.5013	ND	ND	5%	0.50		
o-Xylene	C	328176634001	0.3038	ND	ND	64%	0.50		

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328275574001	845.9	180.0	169.2	94	79-120	u
Bromofluorobenzene (PID)	C	328176634001	820.9	180.0	164.2	91	71-127	>c-

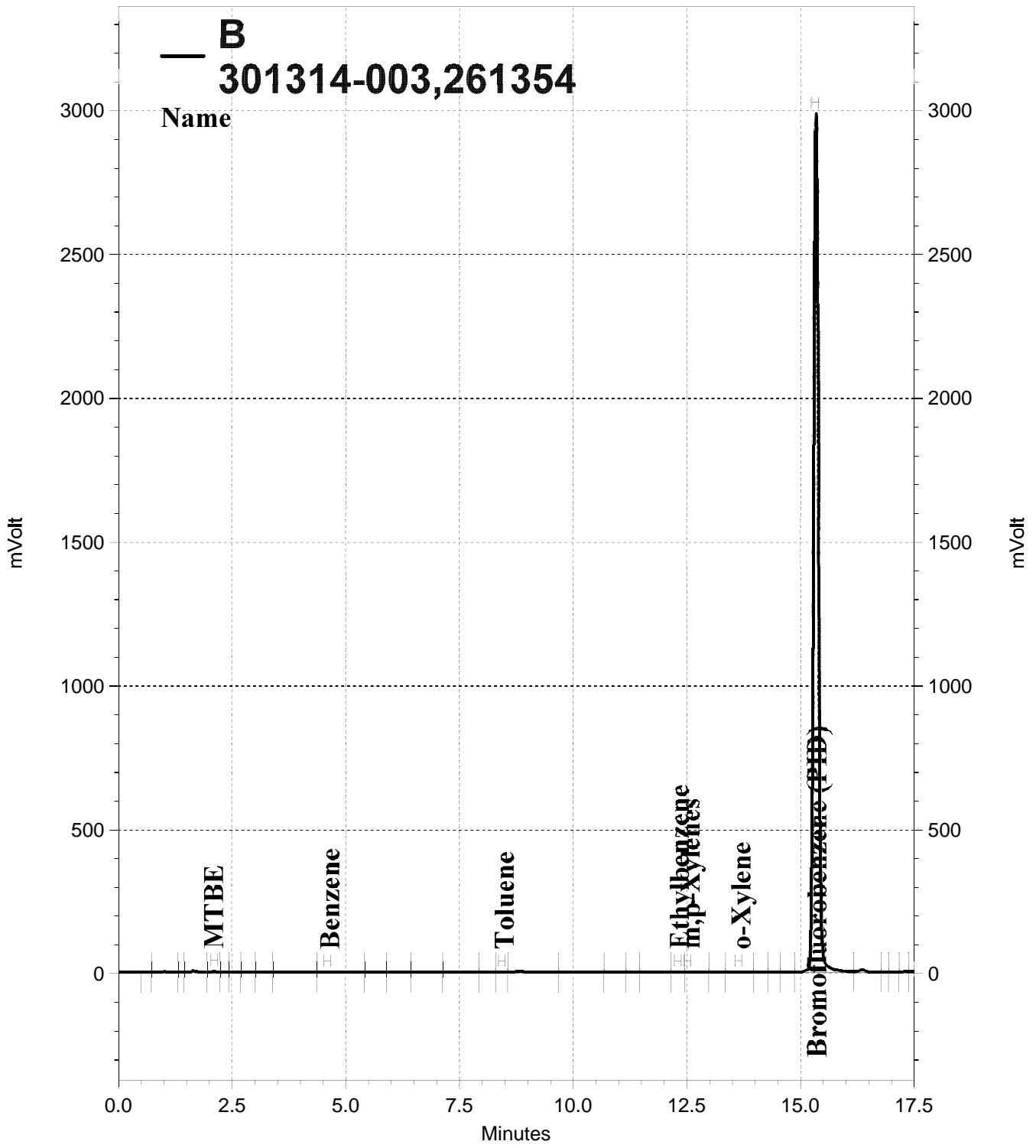
CJN 07/13/18 : Only reporting Gas

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18

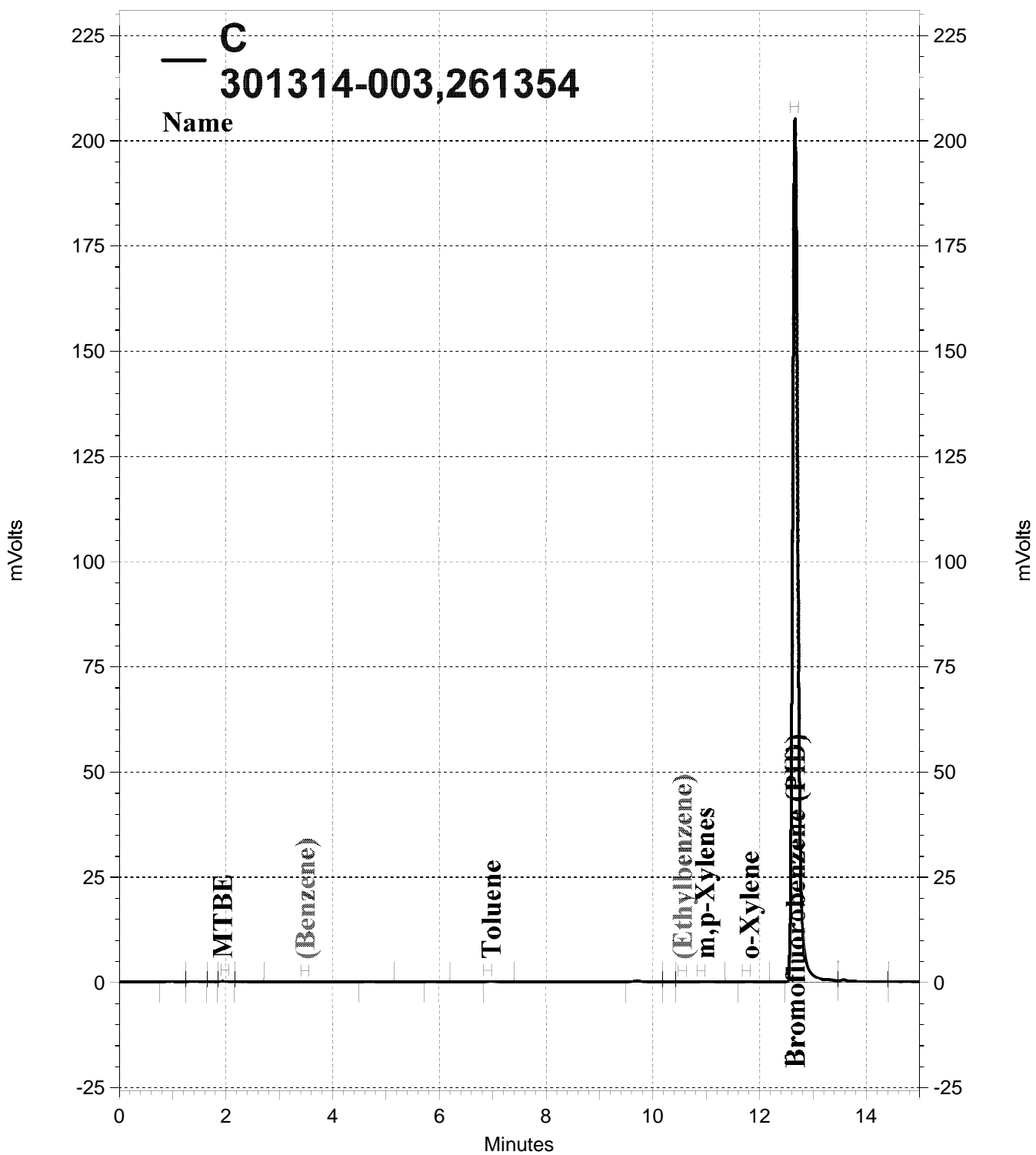
+ = high bias - = low bias < = opening > = closing C = RPD between columns exceeds 40% c = CCV u = use x = false positive



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-019, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-019, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-019, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: 301314-003,261354
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-019
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/12/2018 9:06:32 PM
Analysis Date: 7/12/2018 9:35:15 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1892869	845.899
GAS:6-10			117295	46.317
GAS:6-12			240649	75.611
GAS:7-12			226315	90.401
JP4:7-12			226315	60.364

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.100	2.117	37844	3.284
Benzene	4.650	4.600	18128	0.538
Toluene	8.483	8.433	13107	0.414
Ethylbenzene	12.333	12.300	10676	0.387
m,p-Xylenes	12.567	12.517	16349	0.475
o-Xylene	13.683	13.633	16549	0.588
Bromofluorobenzene (PID)	15.350	15.317	21848392	857.972

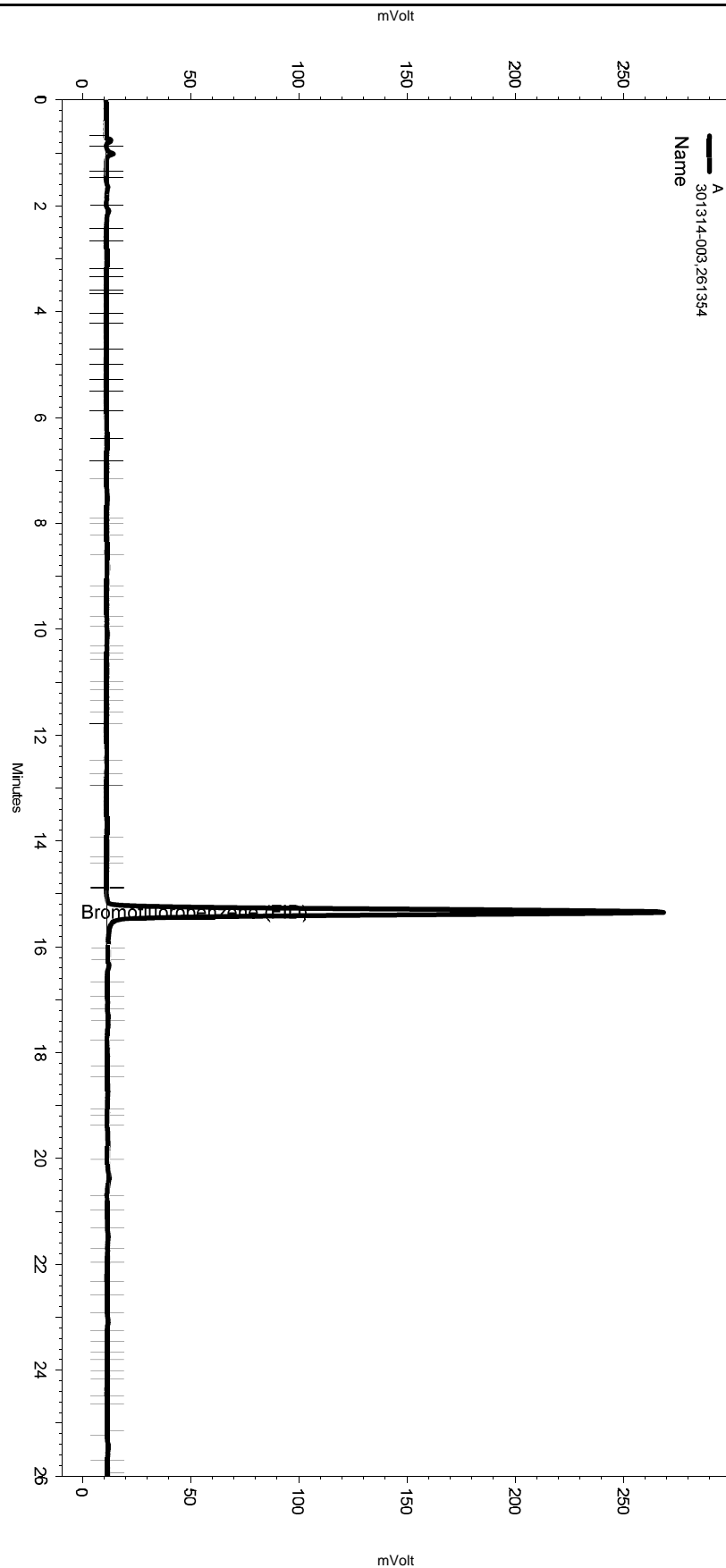
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.933	1.983	1990	2.762
Benzene		3.483		0.000 BDL
Toluene	6.966	6.900	1396	0.704
Ethylbenzene		10.549		0.000 BDL
m,p-Xylenes	10.966	10.899	1114	0.501
o-Xylene	11.799	11.749	583	0.304
Bromofluorobenzene (PID)	12.666	12.649	1422550	820.929

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-003,261354
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-019
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 9:06:32 PM
 Analysis Date: 7/12/2018 9:35:15 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

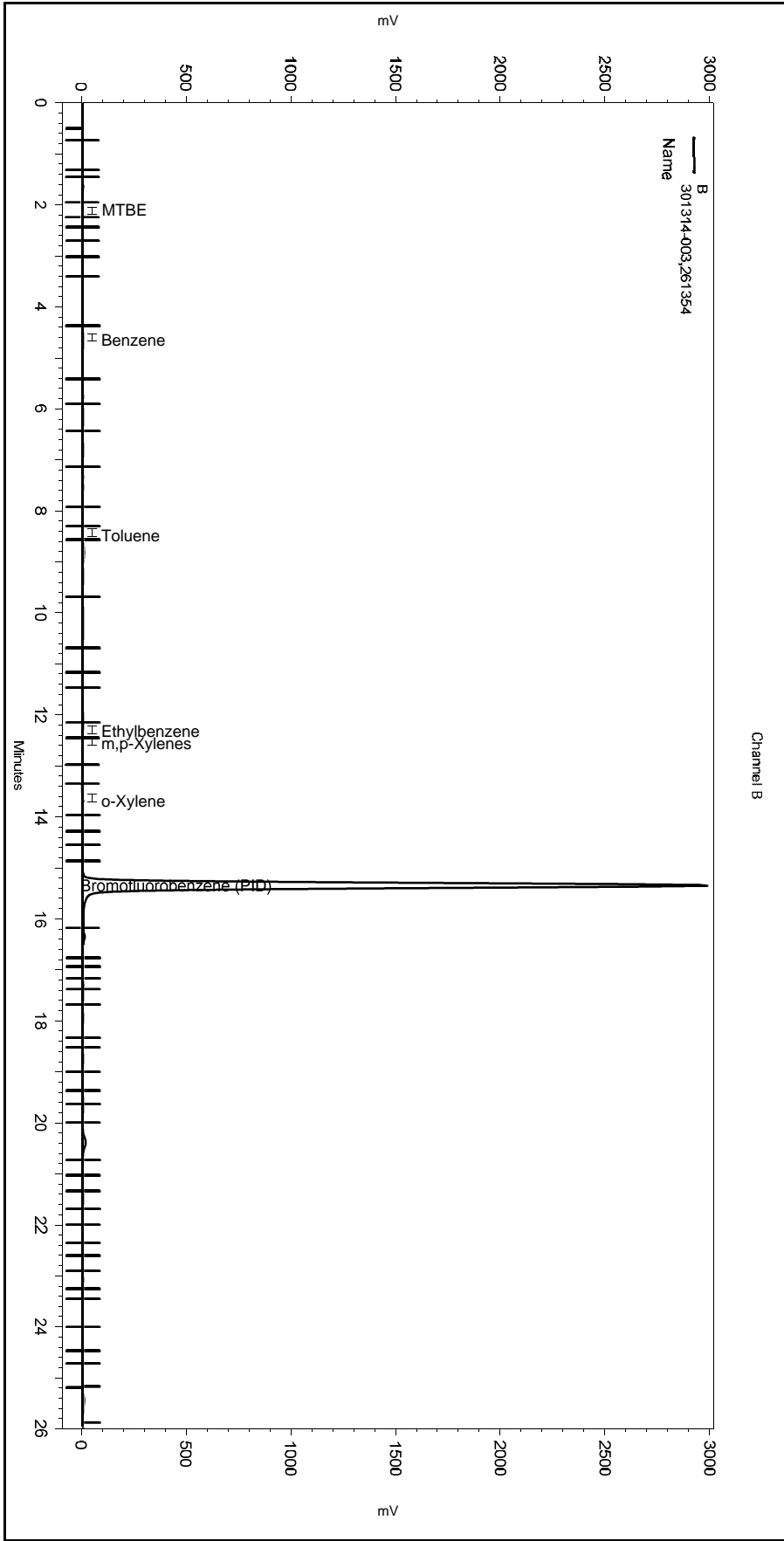
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-019_65D7.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-003,261354
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-019
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 9:06:32 PM
 Analysis Date: 7/12/2018 9:35:15 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

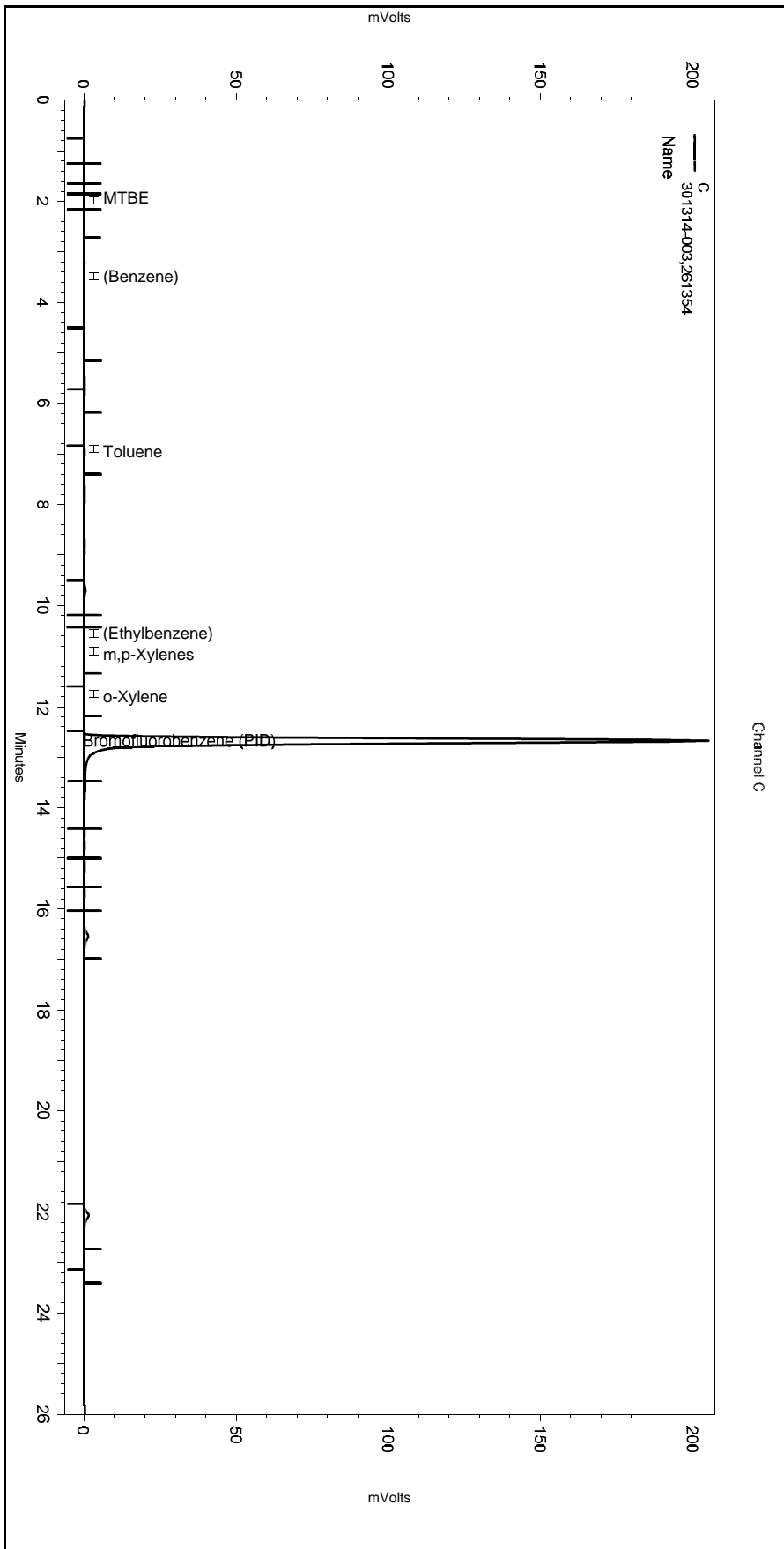
=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-019_65D7.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-003,261354
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-019
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 9:06:32 PM
 Analysis Date: 7/12/2018 9:35:15 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-019_65D7.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 301314-004 Client ID : TB07062018-01
 Seqnum : 328277310008 Matrix : Water Acct : TRC-SF (MJD)
 File : 192_008 Batch : 261329 Time : 11-JUL-2018 18:25
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328275574001	109.0	22 J			50	21	>c- b*
Benzene	C	328176634001	0	ND	ND		0.50		u
Toluene	C	328176634001	0.5499	0.11 J	ND	23%	0.50		u x
Ethylbenzene	C	328176634001	0.1322	ND	ND	80%	0.50	0.15	u
m,p-Xylenes	C	328176634001	0.2192	ND	ND	82%	0.50	0.25	u
o-Xylene	C	328176634001	0.1652	ND	ND	88%	0.50		u

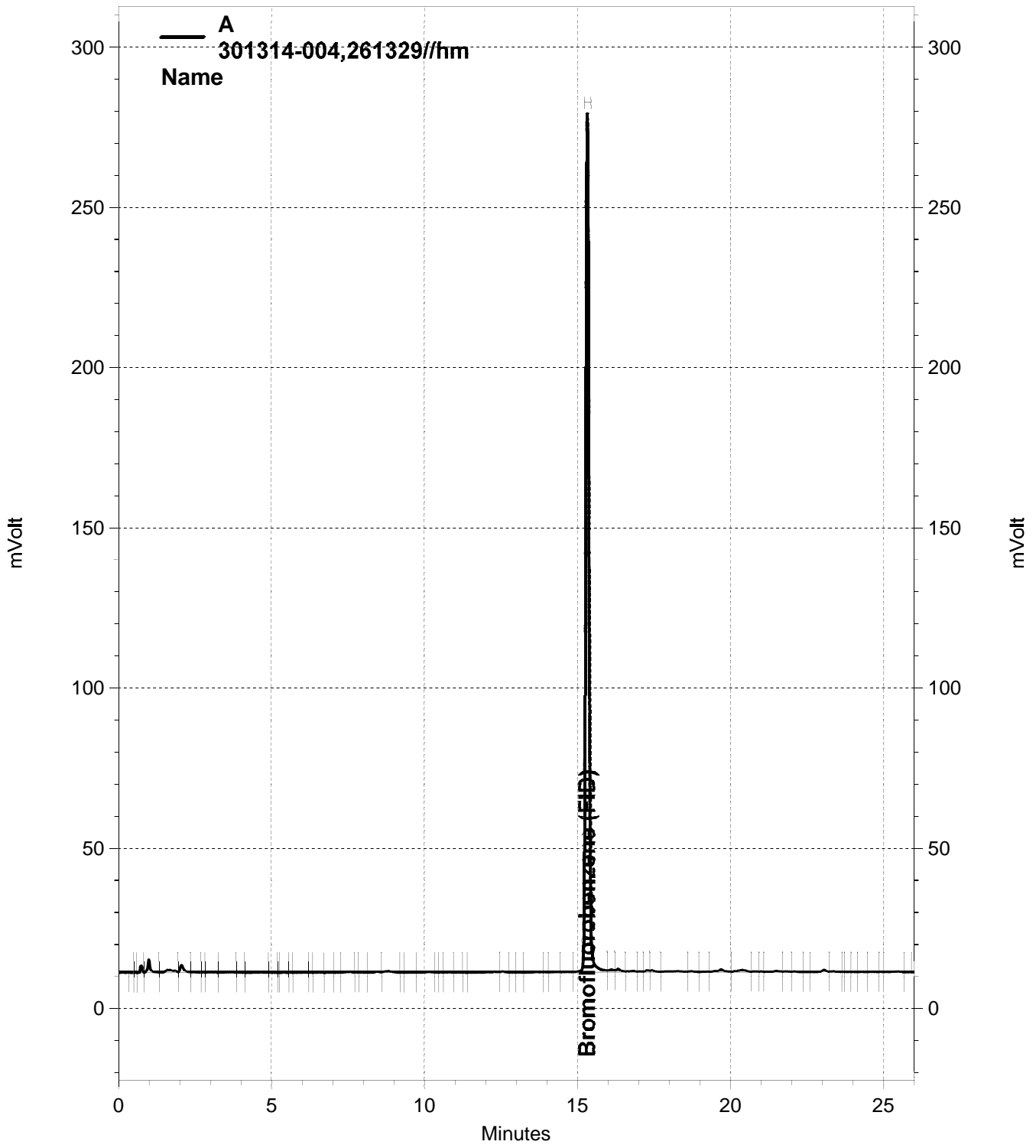
Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328275574001	884.2	180.0	176.8	98	79-120	>c-
Bromofluorobenzene (PID)	C	328176634001	829.6	180.0	165.9	92	71-127	>c- u

07/11/18 : Was analyzed with more than 1 mL of headspace in the VOA vial.

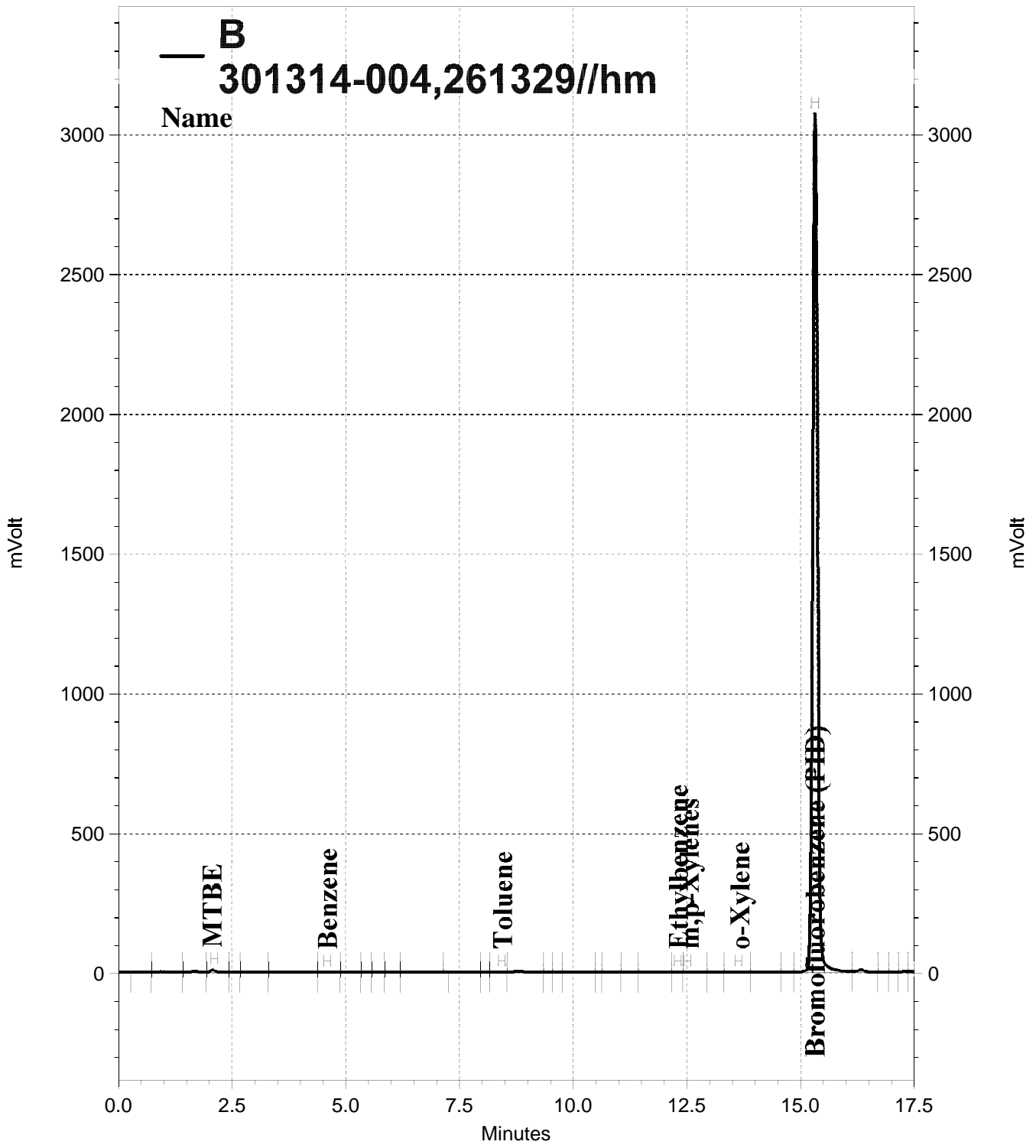
CJN 07/12/18 : Closing out low for Gas C7-C12.

CJN: 07/12/18 * JM2: 07/13/18 EAH: 07/13/18

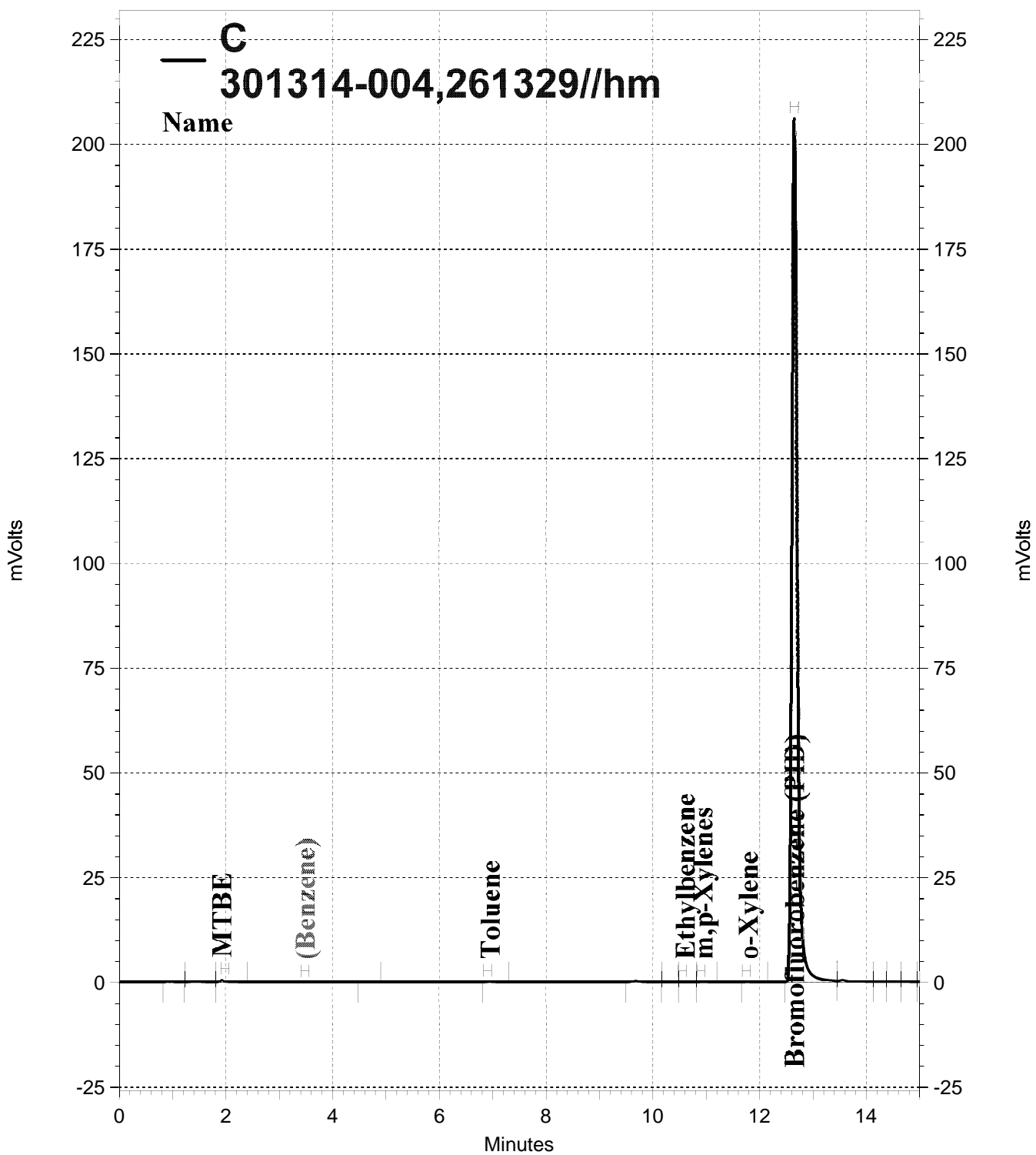
--low bias >=closing b=noncompliant c=CCV u=use x=false positive



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-008, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-008, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-008, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\192.seq
Sample Name: 301314-004,261329/hm
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-008
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/11/2018 6:25:47 PM
Analysis Date: 7/11/2018 6:54:30 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.317	15.333	1978525	884.177
GAS:6-10			138089	54.528
GAS:6-12			292920	92.034
GAS:7-12			272903	109.010
JP4:7-12			272903	72.790

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.067	2.117	90076	7.815
Benzene	4.600	4.600	6933	0.206
Toluene	8.450	8.433	13776	0.436
Ethylbenzene	12.317	12.300	8536	0.309
m,p-Xylenes	12.550	12.517	18053	0.525
o-Xylene	13.667	13.633	11943	0.424
Bromofluorobenzene (PID)	15.317	15.317	22430748	880.841

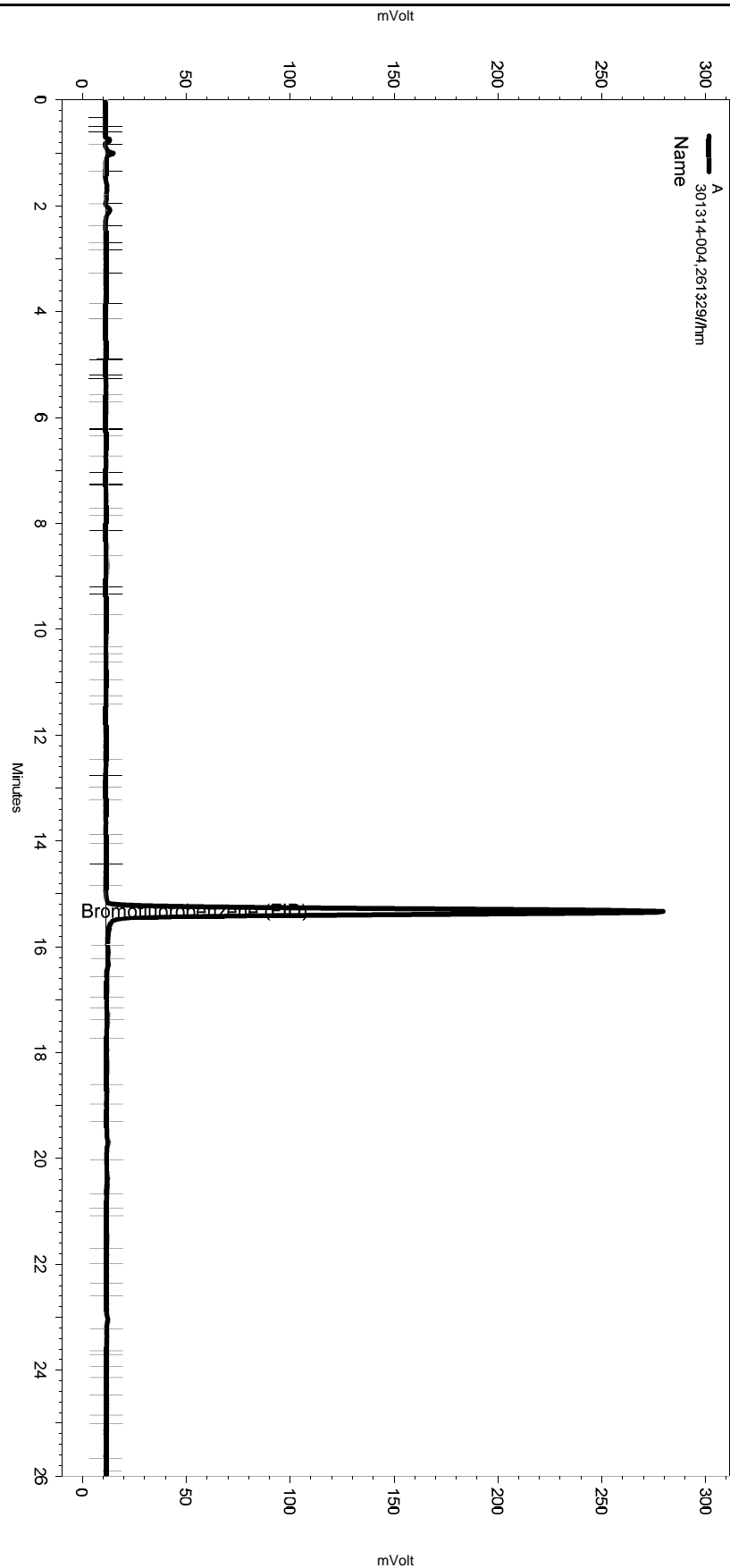
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.917	1.983	3654	5.071
Benzene		3.483		0.000 BDL
Toluene	6.950	6.900	1090	0.550
Ethylbenzene	10.599	10.549	216	0.132
m,p-Xylenes	10.933	10.899	487	0.219
o-Xylene	11.783	11.749	317	0.165
Bromofluorobenzene (PID)	12.649	12.649	1437653	829.645

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-004,261329/hm
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-008
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 6:25:47 PM
 Analysis Date: 7/11/2018 6:54:30 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

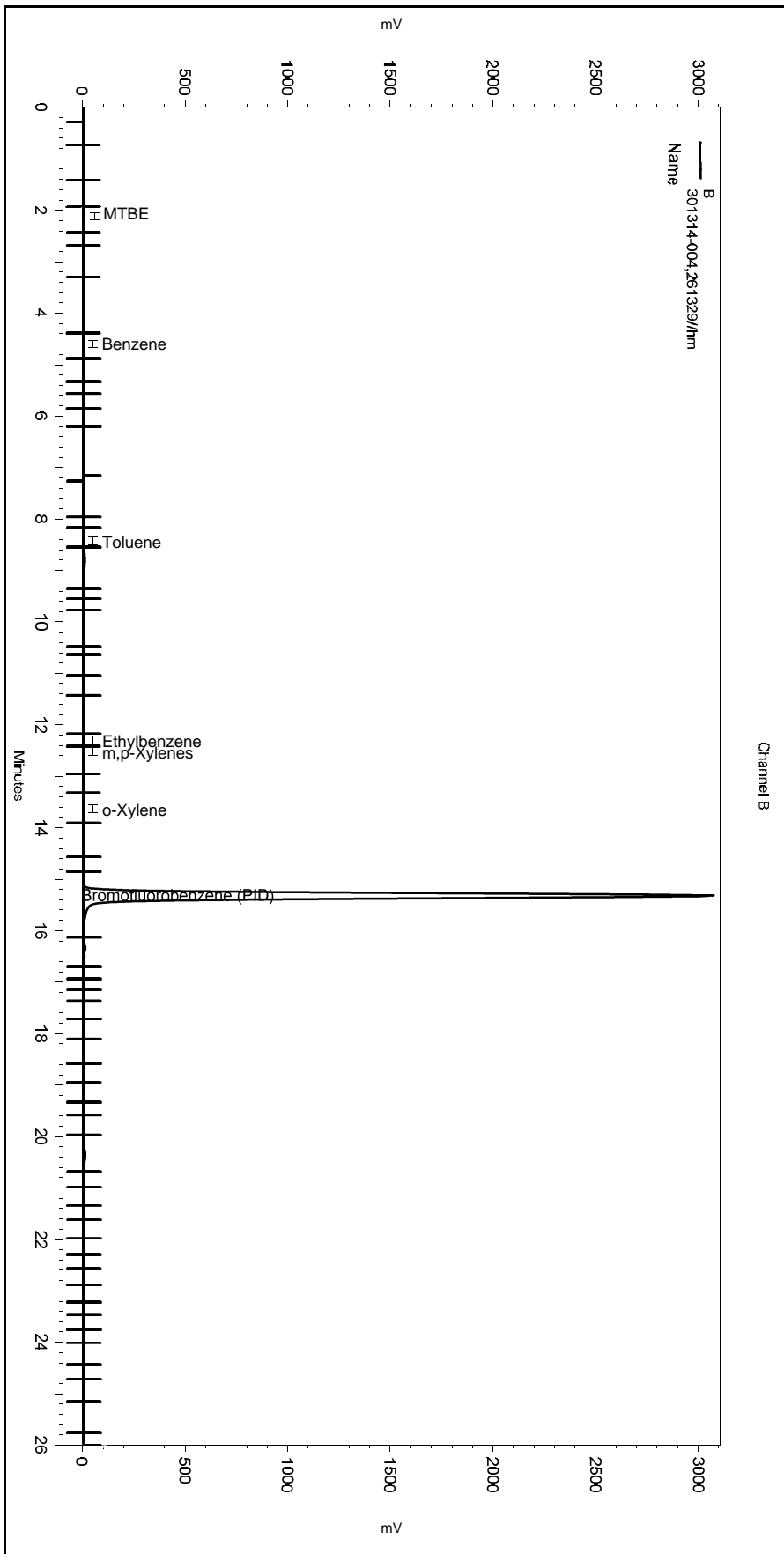
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\192-008_65B0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-004,261329/hm
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-008
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 6:25:47 PM
 Analysis Date: 7/11/2018 6:54:30 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

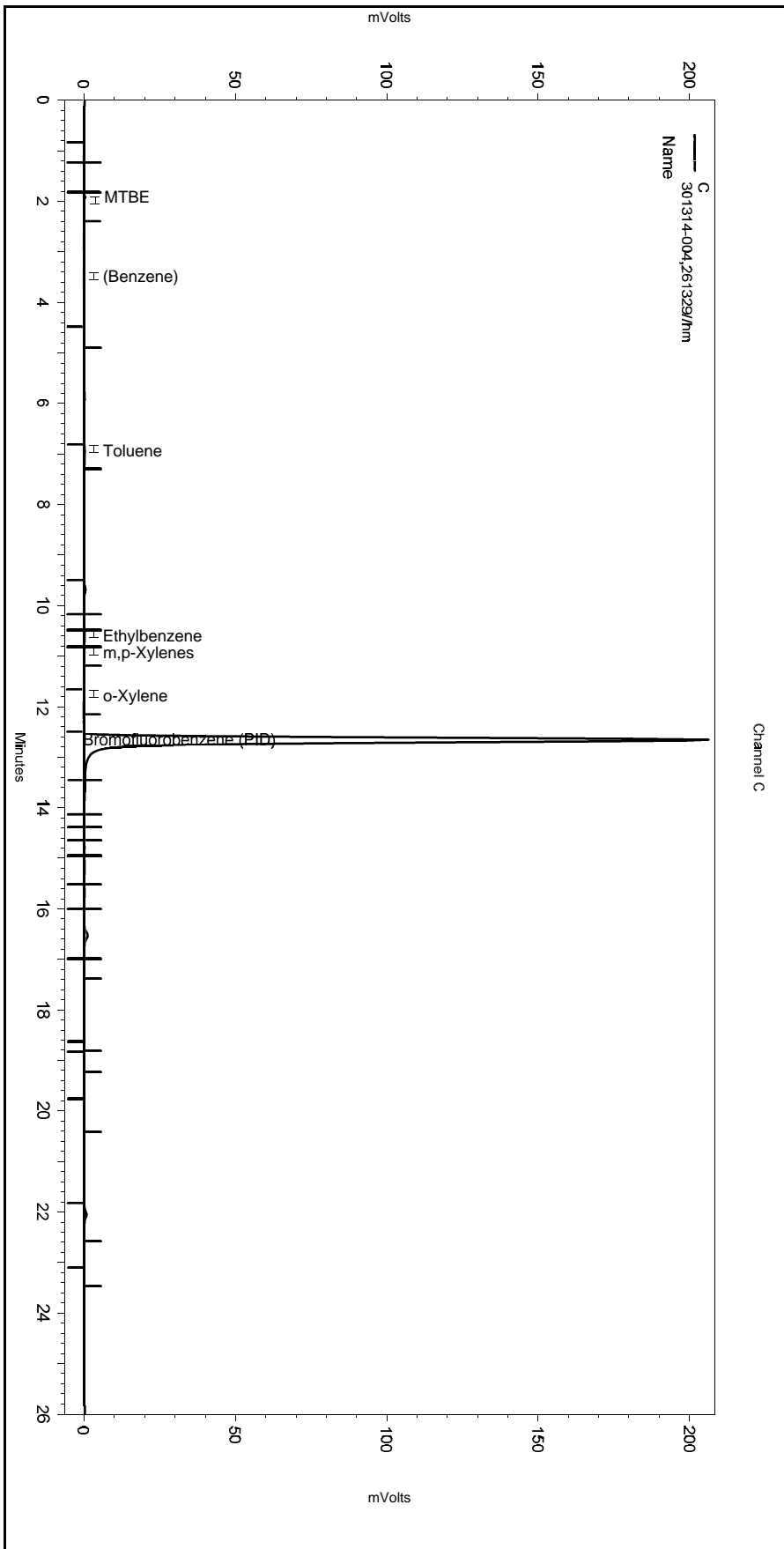
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-008_65B0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: 301314-004,261329/hm
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-008
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 6:25:47 PM
 Analysis Date: 7/11/2018 6:54:30 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-008_65B0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 301314-004 Client ID : TB07062018-01
 Seqnum : 328278480016 Matrix : Water Acct : TRC-SF (MJD)
 File : 193_016 Batch : 261354 Time : 12-JUL-2018 19:11
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328275574001	98.09	20 J			50	13	u
Benzene	C	328176634001	0.08521	ND	ND	131%	0.50		<c+
Toluene	C	328176634001	0.6922	0.14 J	0.16 J	14%	0.50		<c+ b*
Ethylbenzene	C	328176634001	0.7622	0.15 J	0.24 J	43%	0.50		<c+ C b*
m,p-Xylenes	C	328176634001	1.037	0.21 J	0.27 J	28%	0.50		
o-Xylene	C	328176634001	0.8076	0.16 J	0.26 J	47%	0.50		C

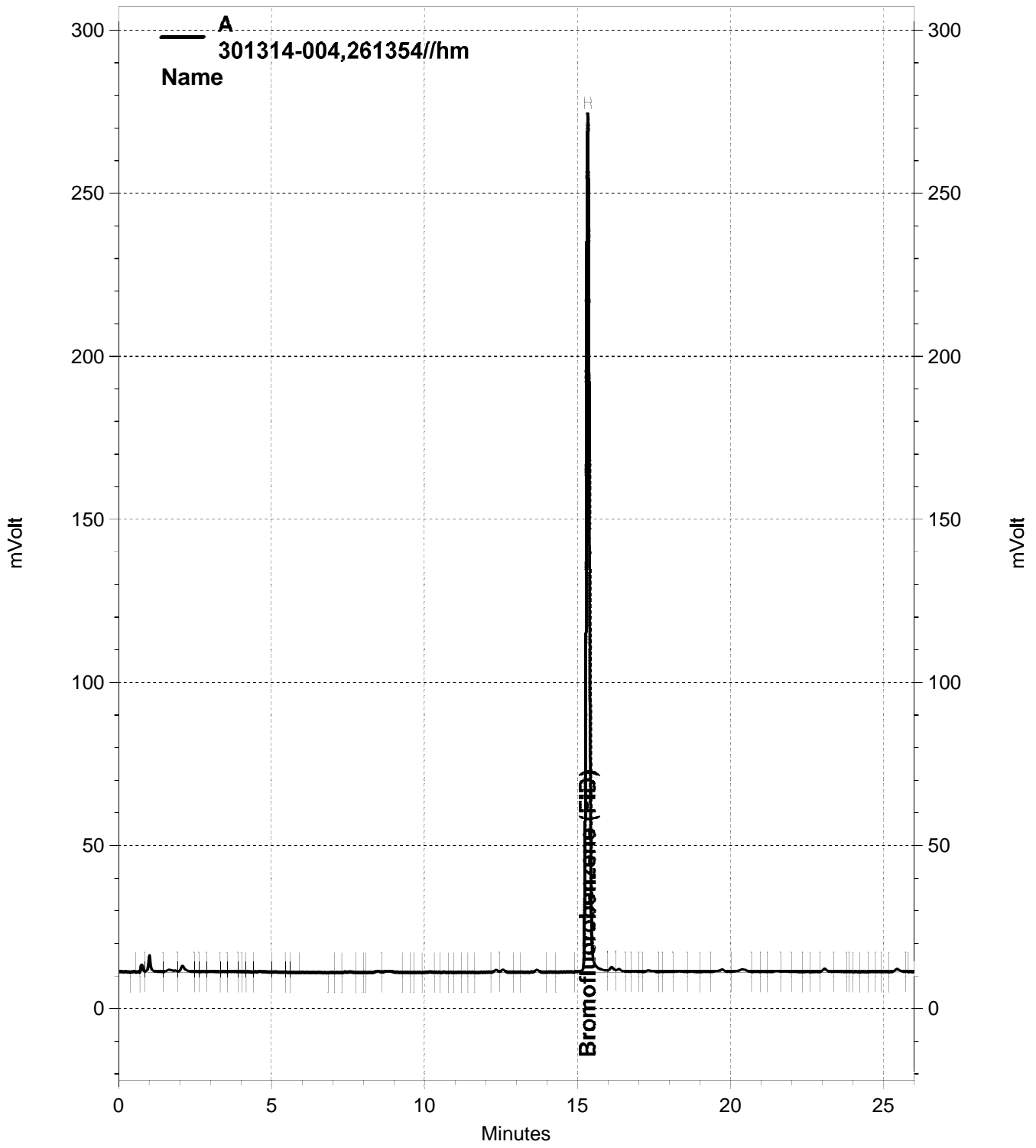
Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328275574001	863.4	180.0	172.7	96	79-120	u
Bromofluorobenzene (PID)	C	328176634001	836.7	180.0	167.3	93	71-127	>c-

07/12/18 : Was analyzed with more than 1 mL of headspace in the VOA vial.

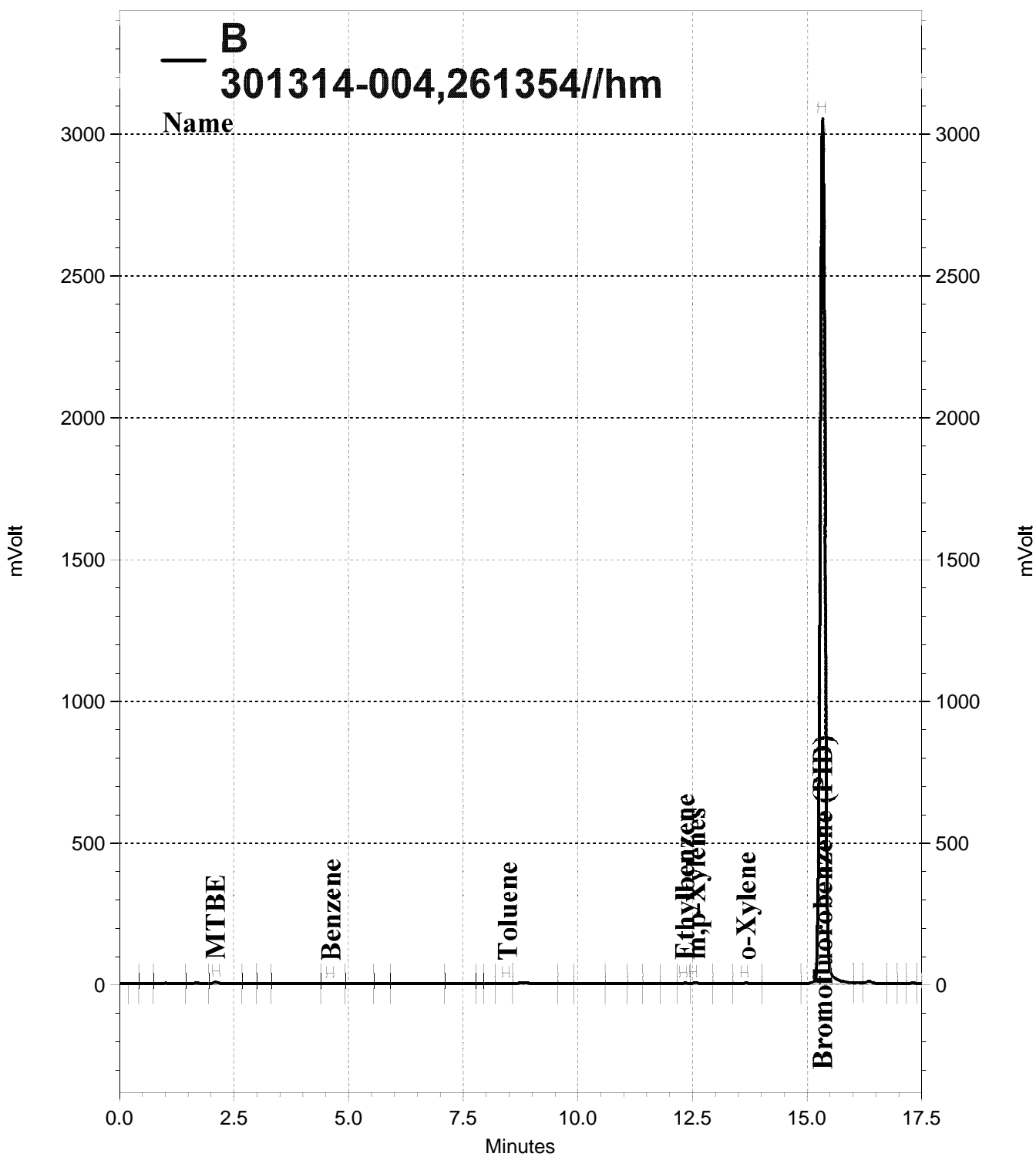
CJN 07/13/18 : Only reporting Gas

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18

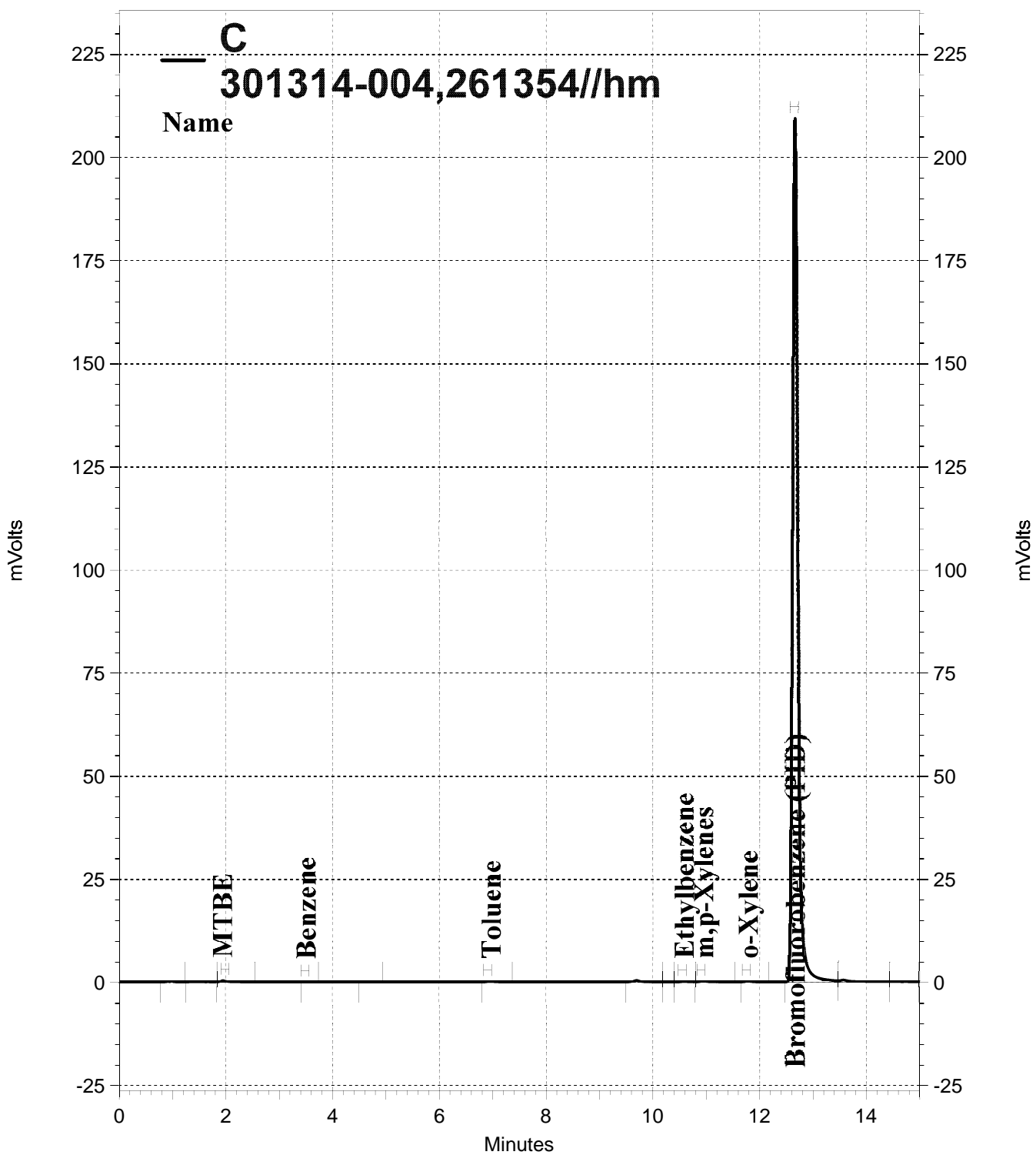
+ = high bias - = low bias < = opening > = closing C = RPD between columns exceeds 40% b = noncompliant c = CCV u = use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-016, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-016, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-016, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: 301314-004,261354//hm
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-016
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/12/2018 7:11:42 PM
Analysis Date: 7/12/2018 7:40:25 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1932046	863.406
GAS:6-10			125872	49.704
GAS:6-12			269709	84.741
GAS:7-12			245555	98.086
JP4:7-12			245555	65.495

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.100	2.117	95802	8.312
Benzene	4.617	4.600	13752	0.408
Toluene	8.467	8.433	25157	0.796
Ethylbenzene	12.333	12.300	32442	1.176
m,p-Xylenes	12.567	12.517	47244	1.373
o-Xylene	13.667	13.633	36889	1.310
Bromofluorobenzene (PID)	15.333	15.317	22224436	872.739

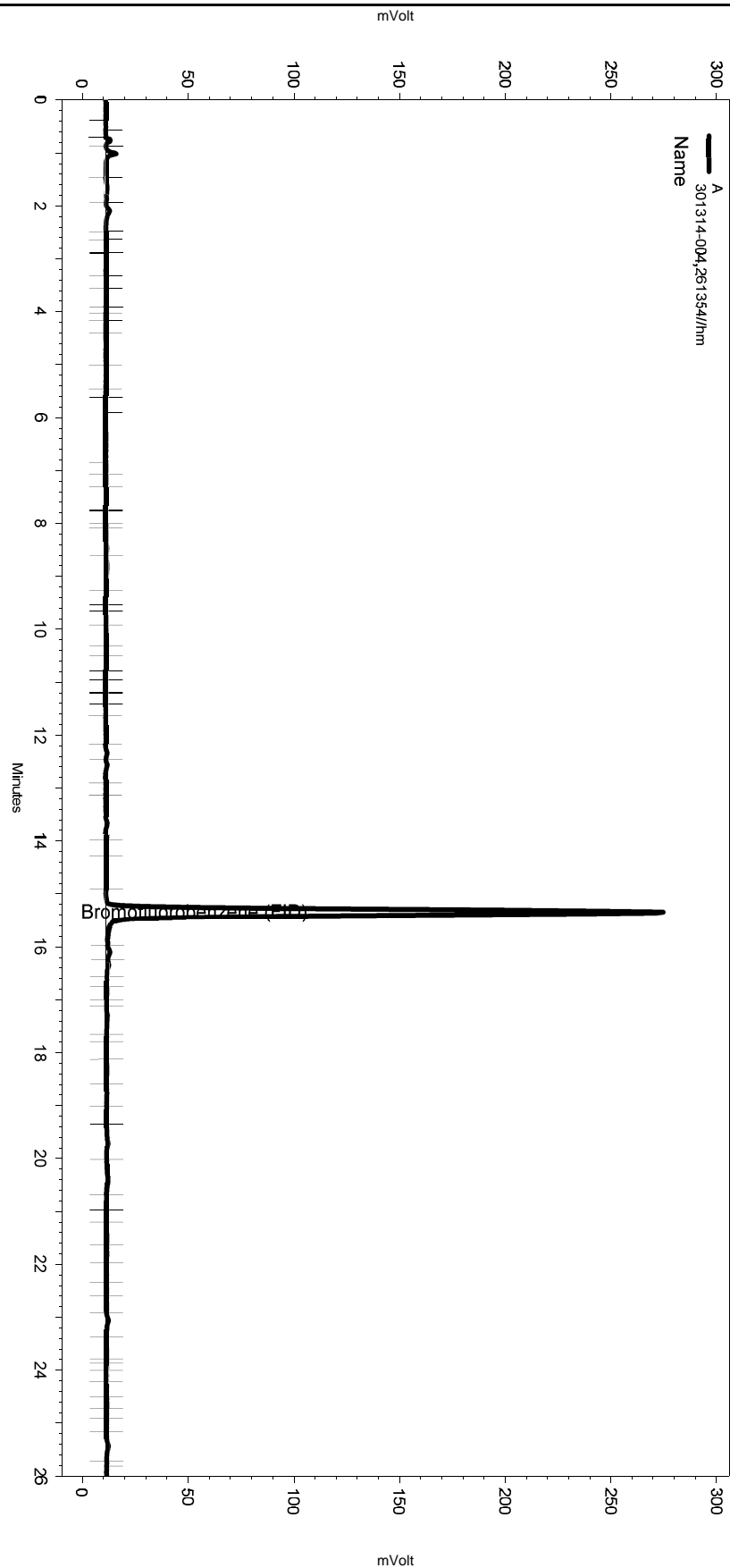
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.933	1.983	3666	5.088
Benzene	3.500	3.483	184	0.085
Toluene	6.966	6.900	1372	0.692
Ethylbenzene	10.583	10.549	1245	0.762
m,p-Xylenes	10.949	10.899	2304	1.037
o-Xylene	11.783	11.749	1550	0.808
Bromofluorobenzene (PID)	12.666	12.649	1449877	836.699

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-004,261354//hm
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-016
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 7:11:42 PM
 Analysis Date: 7/12/2018 7:40:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

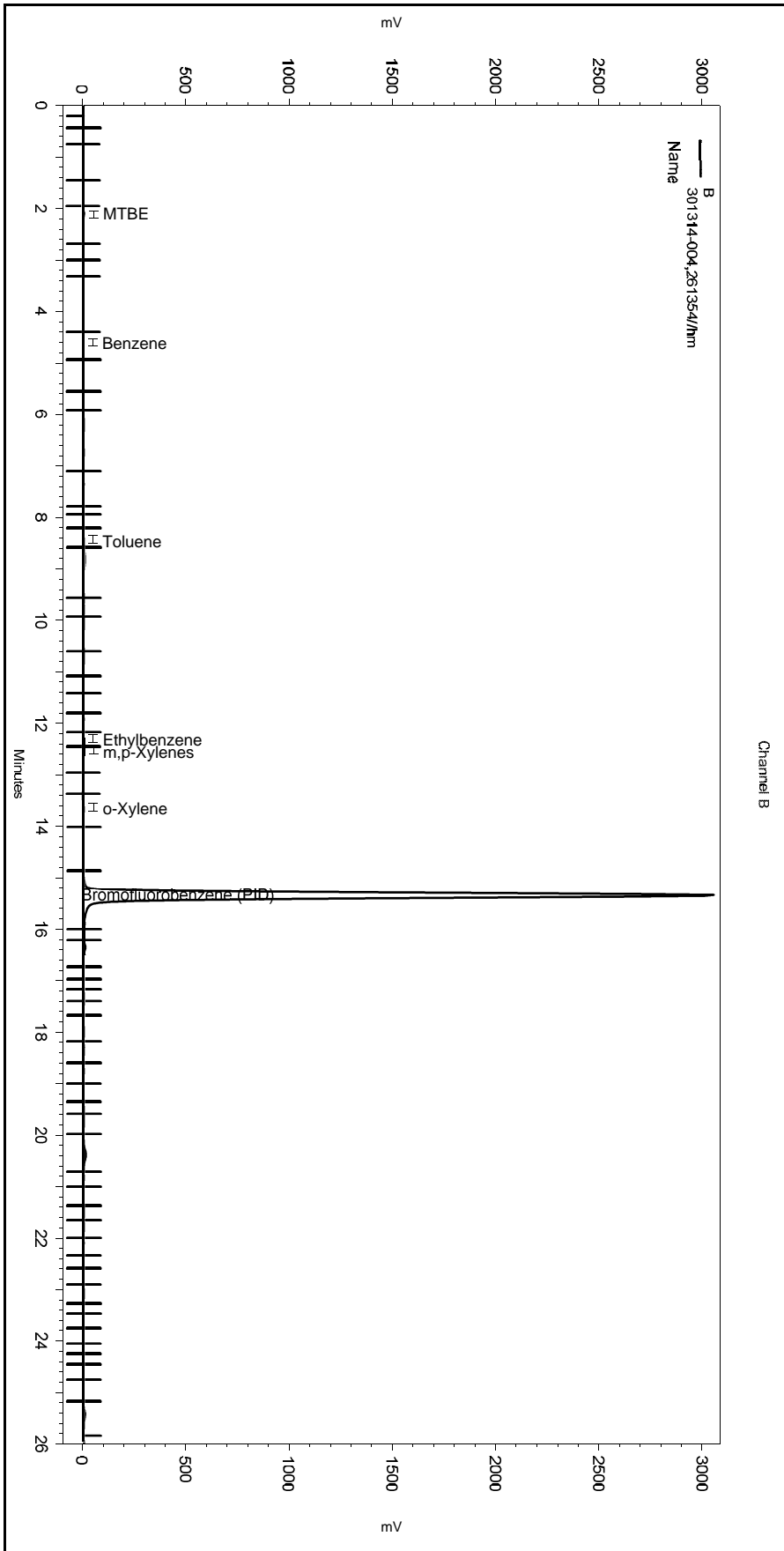
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-016_65D4.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-004,261354//hm
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-016
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 7:11:42 PM
 Analysis Date: 7/12/2018 7:40:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

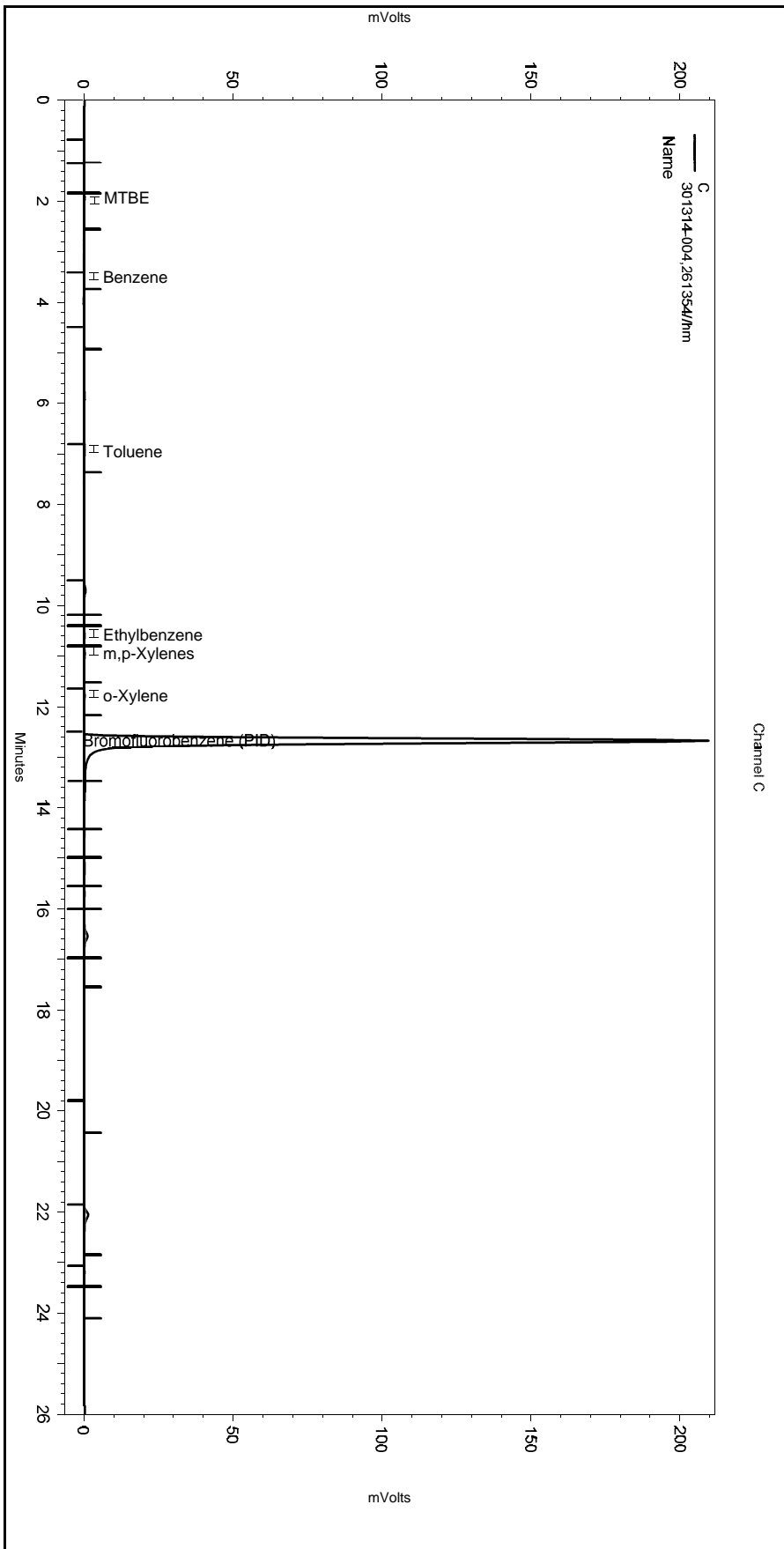
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-016_65D4.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: 301314-004,261354//hm
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-016
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 7:11:42 PM
 Analysis Date: 7/12/2018 7:40:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

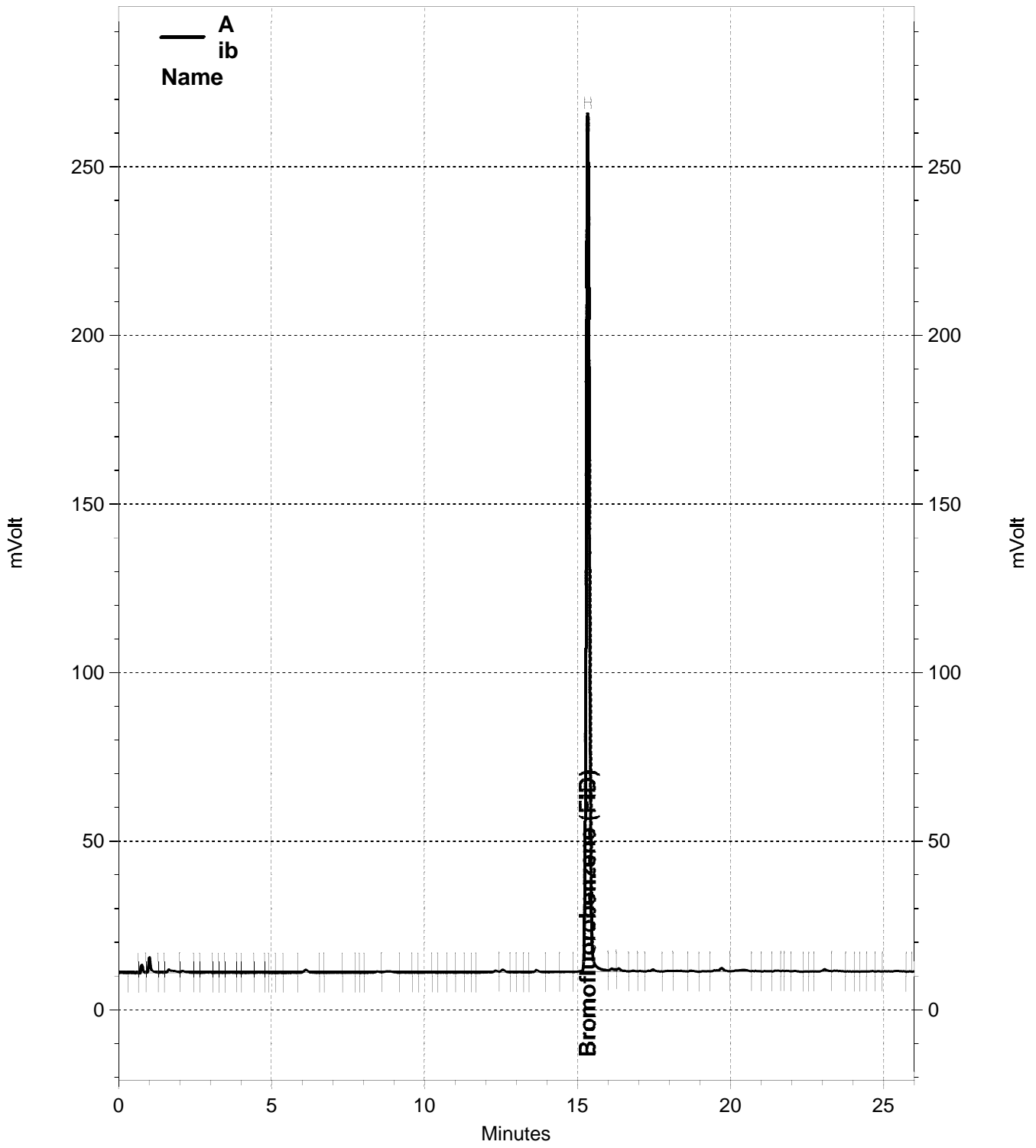
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-016_65D4.tmp

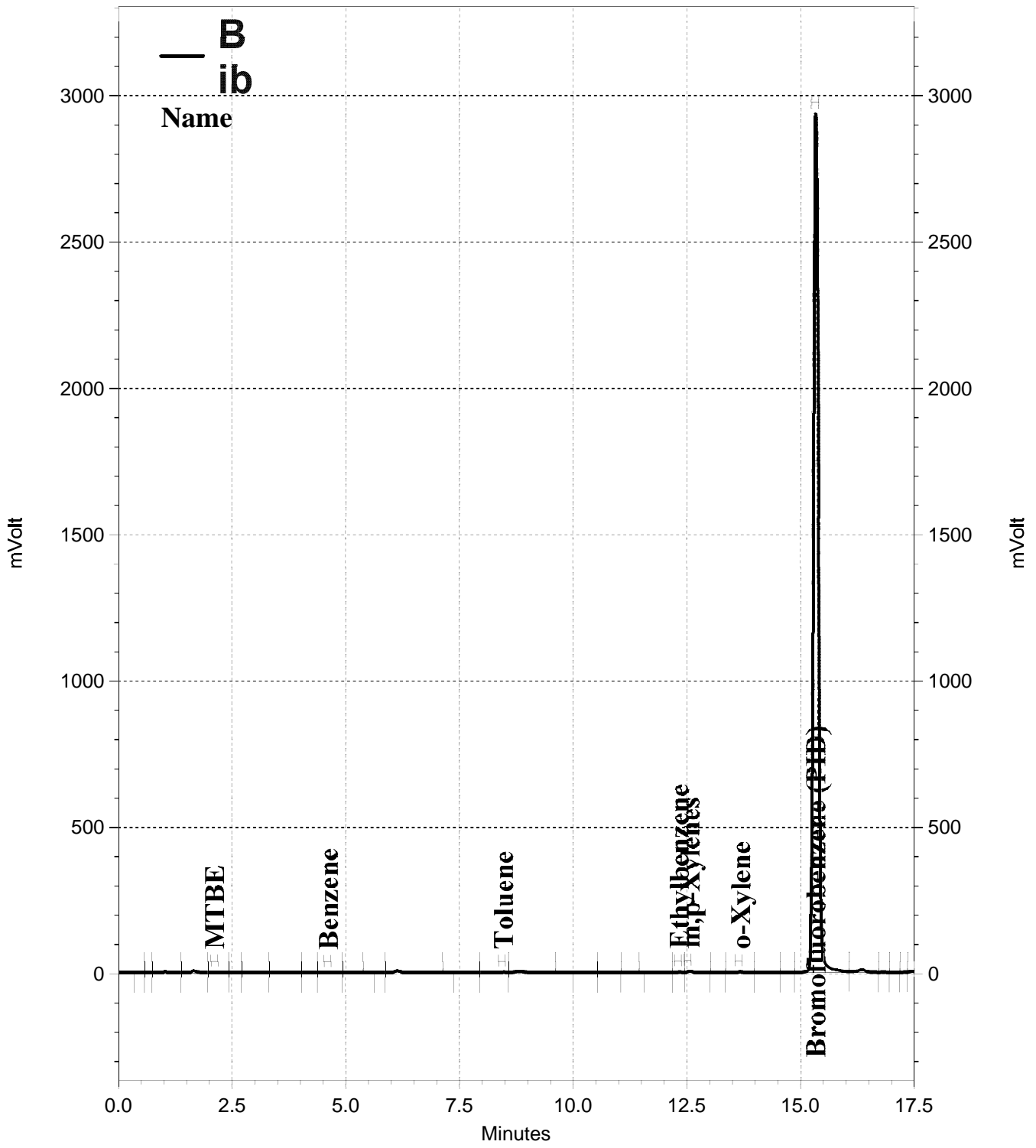
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

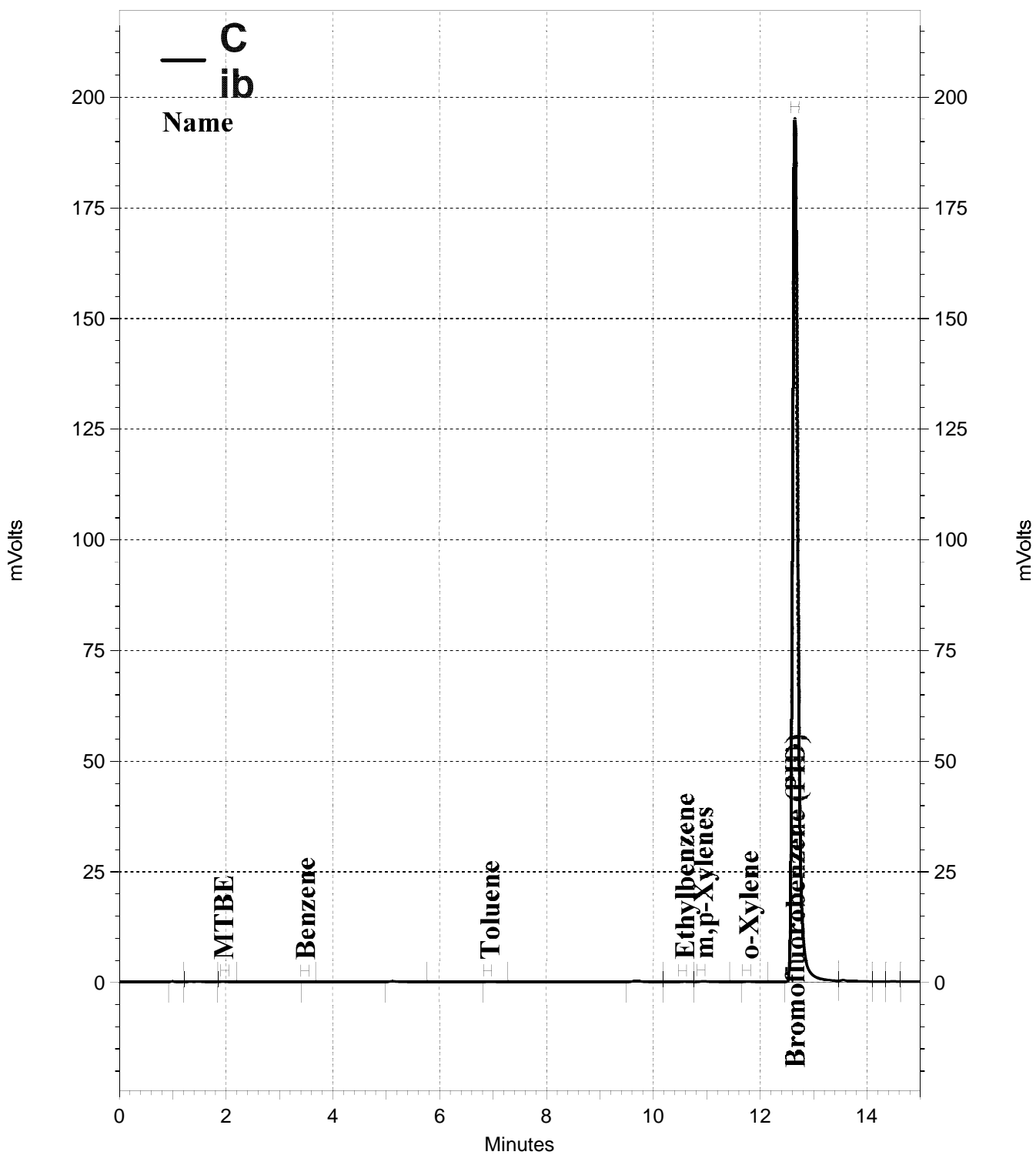
QC Raw Data



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-007, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-007, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-007, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\192.seq
Sample Name: ib
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-007
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/11/2018 5:39:37 PM
Analysis Date: 7/11/2018 6:08:20 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1874374	837.633
GAS:6-10			125368	49.505
GAS:6-12			283809	89.171
GAS:7-12			268964	107.437
JP4:7-12			268964	71.739

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.117	29999	2.603
Benzene	4.617	4.600	7794	0.231
Toluene	8.467	8.433	19777	0.625
Ethylbenzene	12.333	12.300	20536	0.744
m,p-Xylenes	12.567	12.517	42869	1.246
o-Xylene	13.683	13.633	27182	0.966
Bromofluorobenzene (PID)	15.333	15.317	21432508	841.641

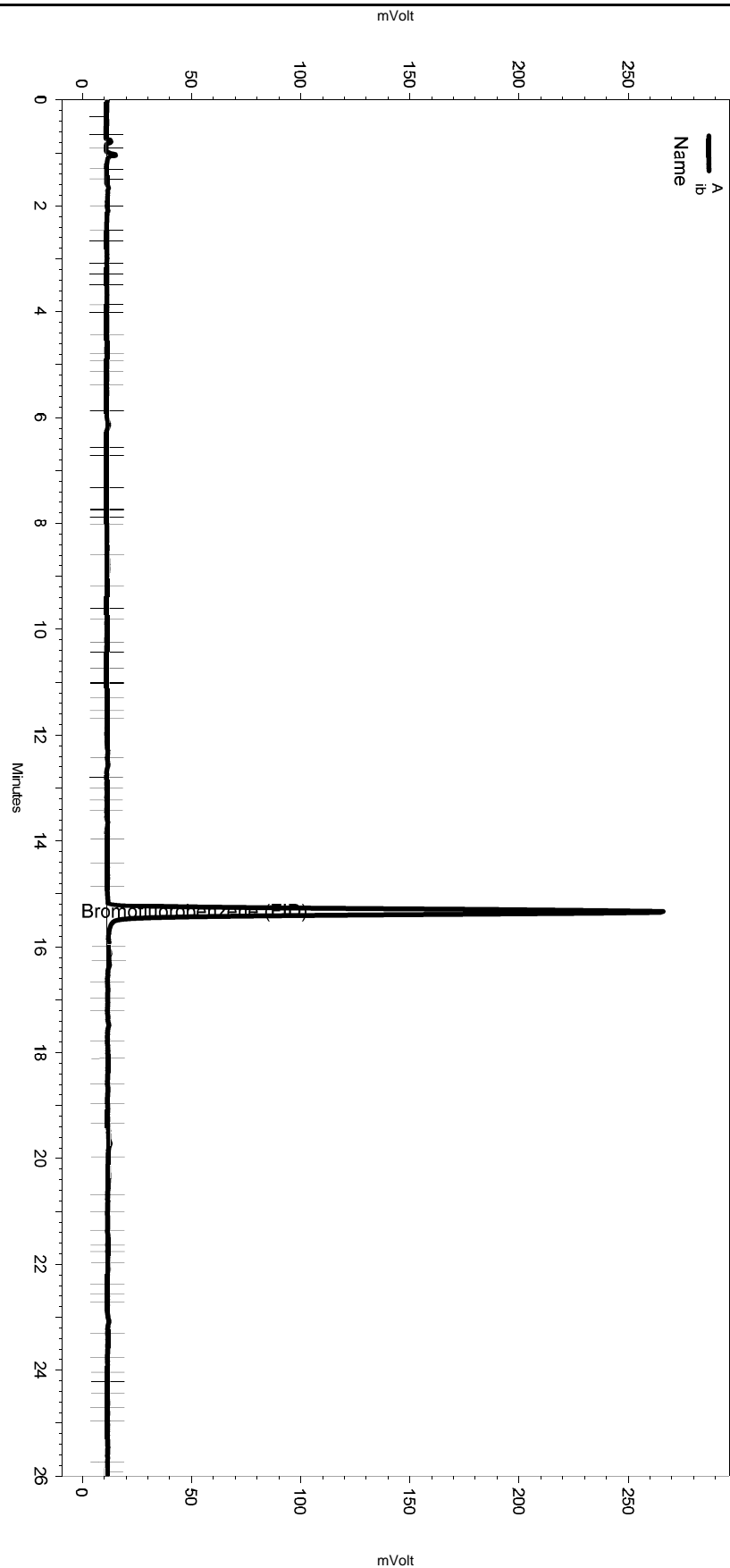
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.950	1.983	658	0.913
Benzene	3.483	3.483	111	0.051
Toluene	6.933	6.900	640	0.323
Ethylbenzene	10.583	10.549	899	0.550
m,p-Xylenes	10.933	10.899	1982	0.892
o-Xylene	11.783	11.749	989	0.515
Bromofluorobenzene (PID)	12.649	12.649	1369043	790.051

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-007
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 5:39:37 PM
 Analysis Date: 7/11/2018 6:08:20 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

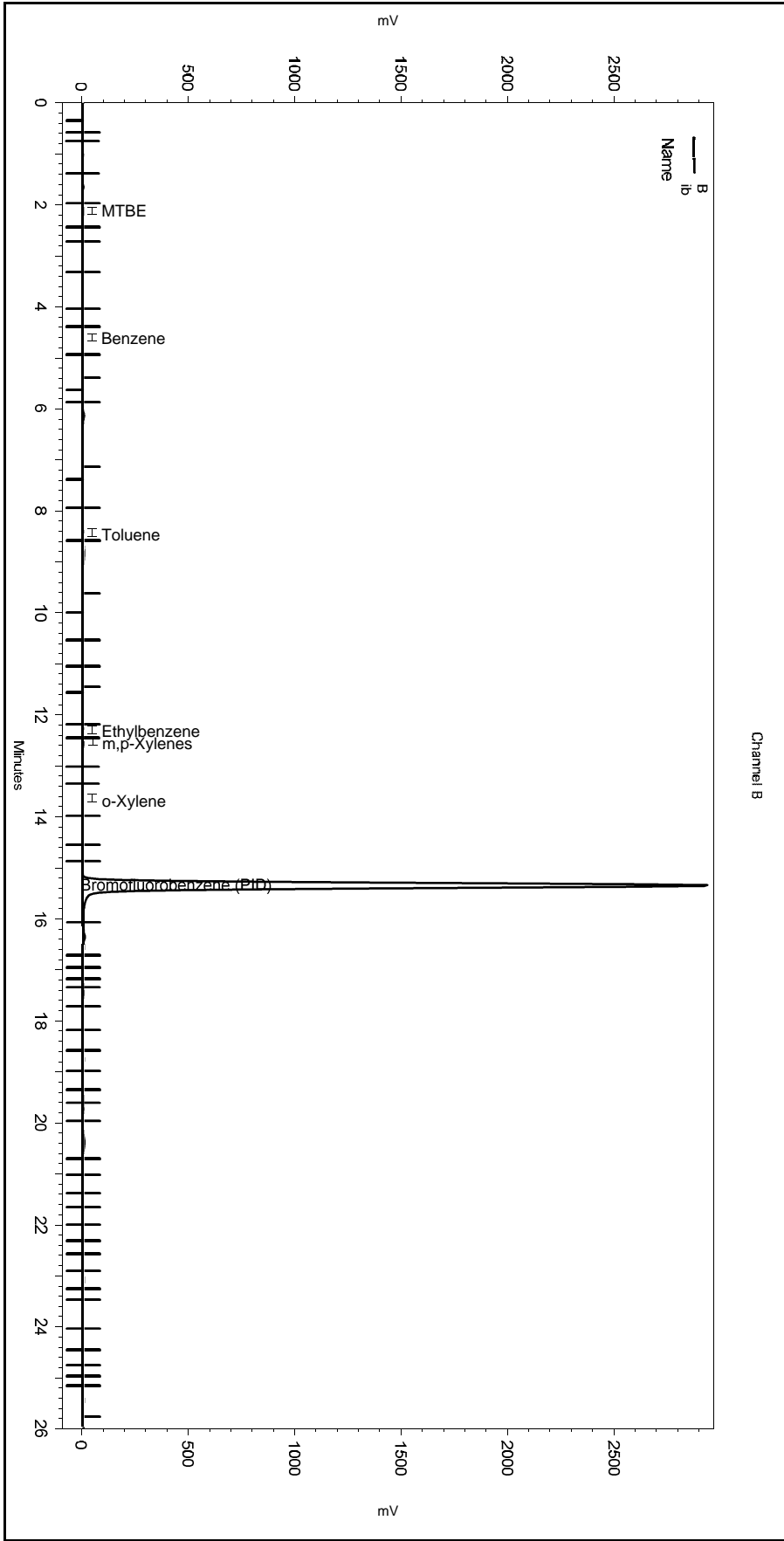
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\192-007_65AF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-007
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 5:39:37 PM
 Analysis Date: 7/11/2018 6:08:20 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

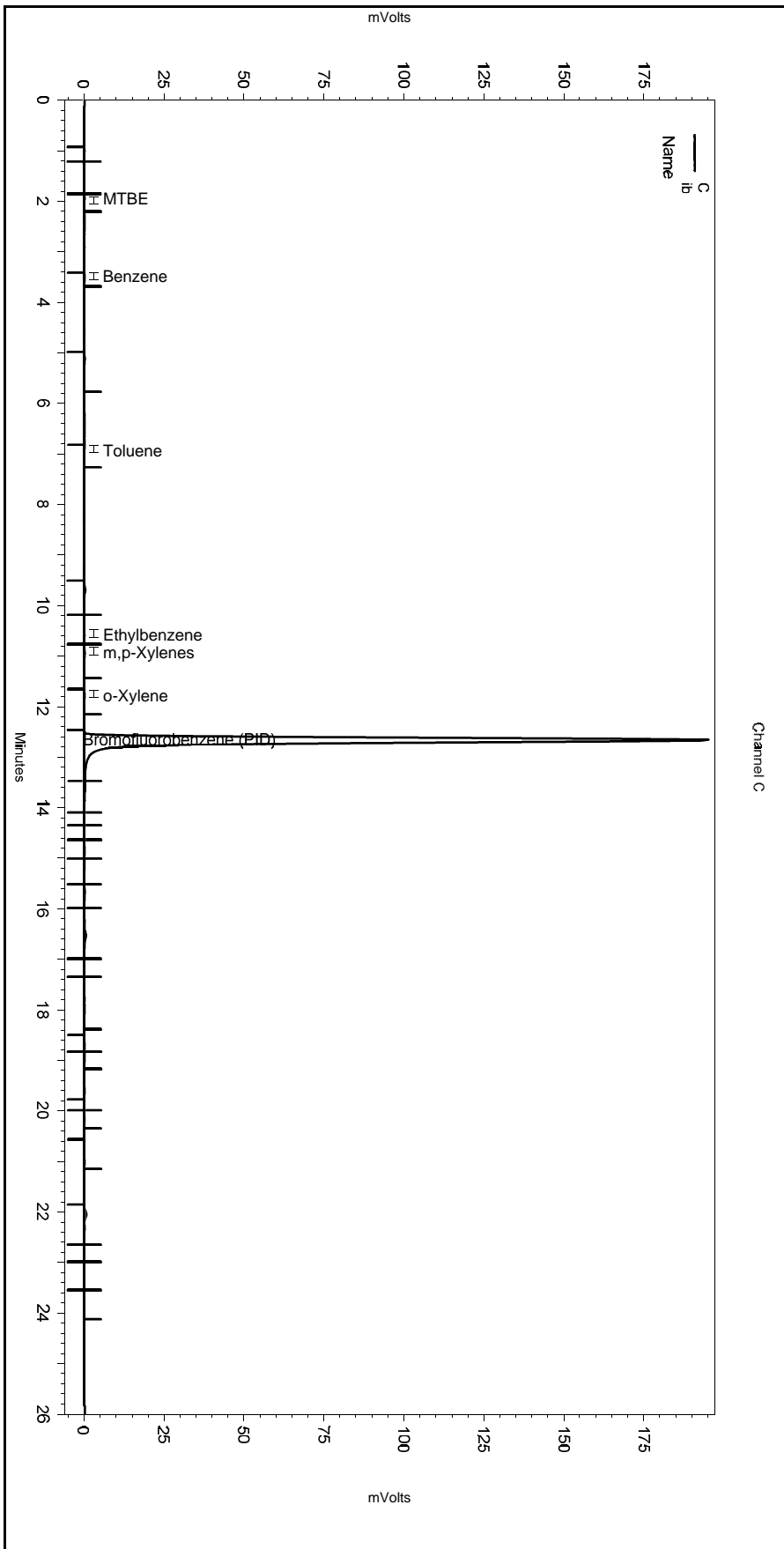
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-007_65AF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-007
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 5:39:37 PM
 Analysis Date: 7/11/2018 6:08:20 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

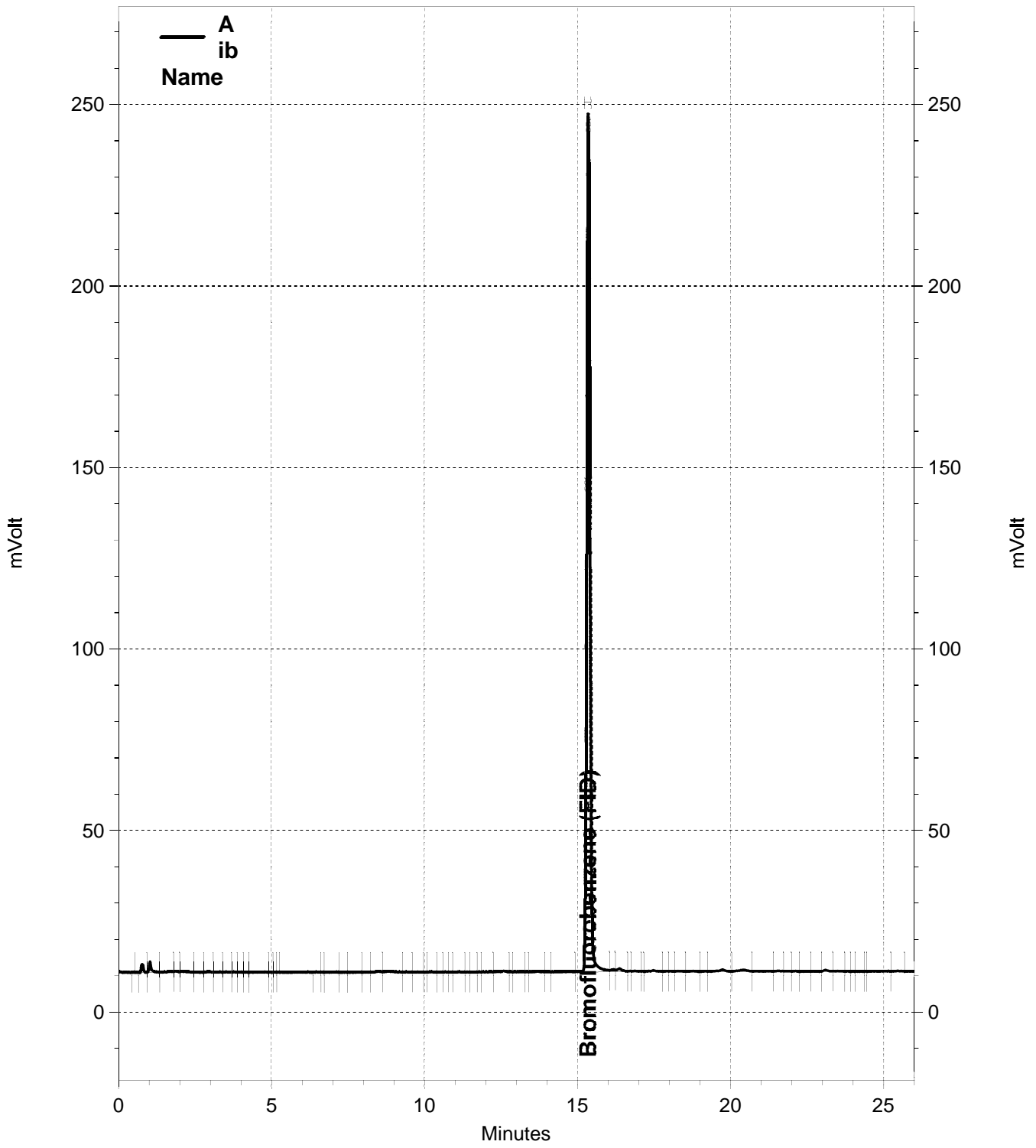
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

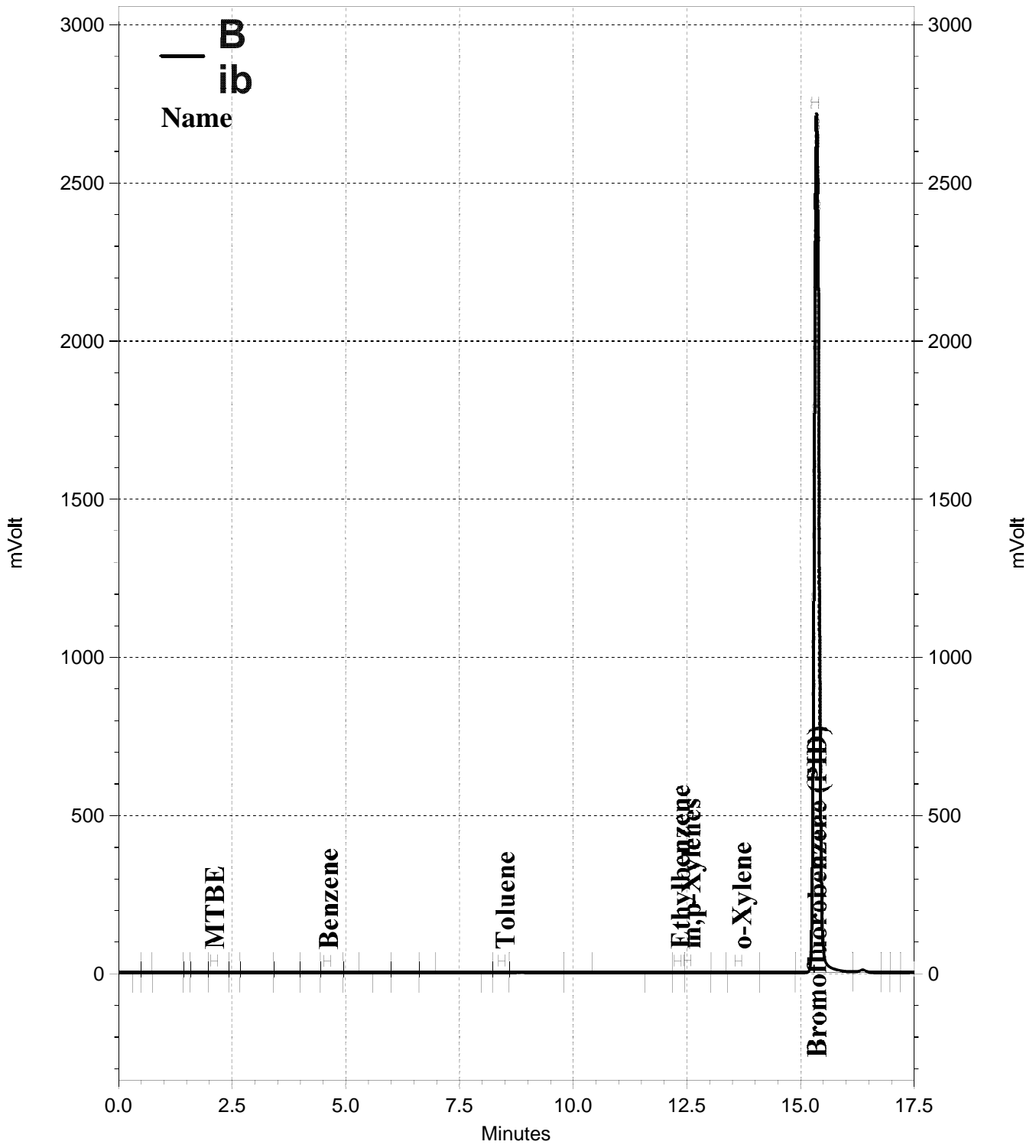
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-007_65AF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

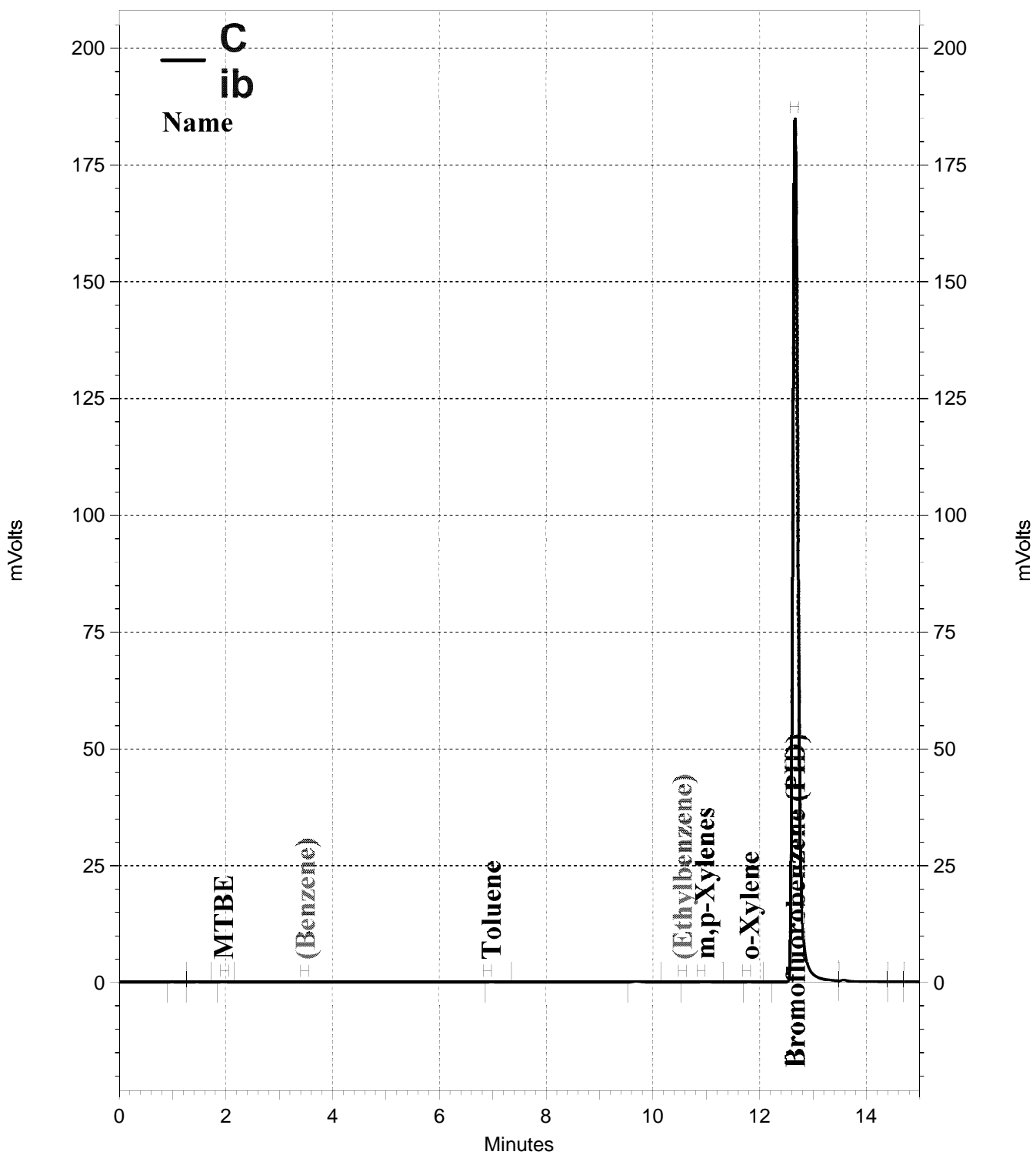
Channel C



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-008, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-008, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-008, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: ib
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-008
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/12/2018 1:47:42 PM
Analysis Date: 7/12/2018 2:16:25 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1742968	778.910
GAS:6-10			74123	29.270
GAS:6-12			172101	54.073
GAS:7-12			157690	62.989
JP4:7-12			157690	42.060

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.117	20889	1.812
Benzene	4.617	4.600	4539	0.135
Toluene	8.500	8.433	11524	0.364
Ethylbenzene	12.350	12.300	7177	0.260
m,p-Xylenes	12.583	12.517	18705	0.544
o-Xylene	13.700	13.633	9207	0.327
Bromofluorobenzene (PID)	15.350	15.317	19867939	780.201

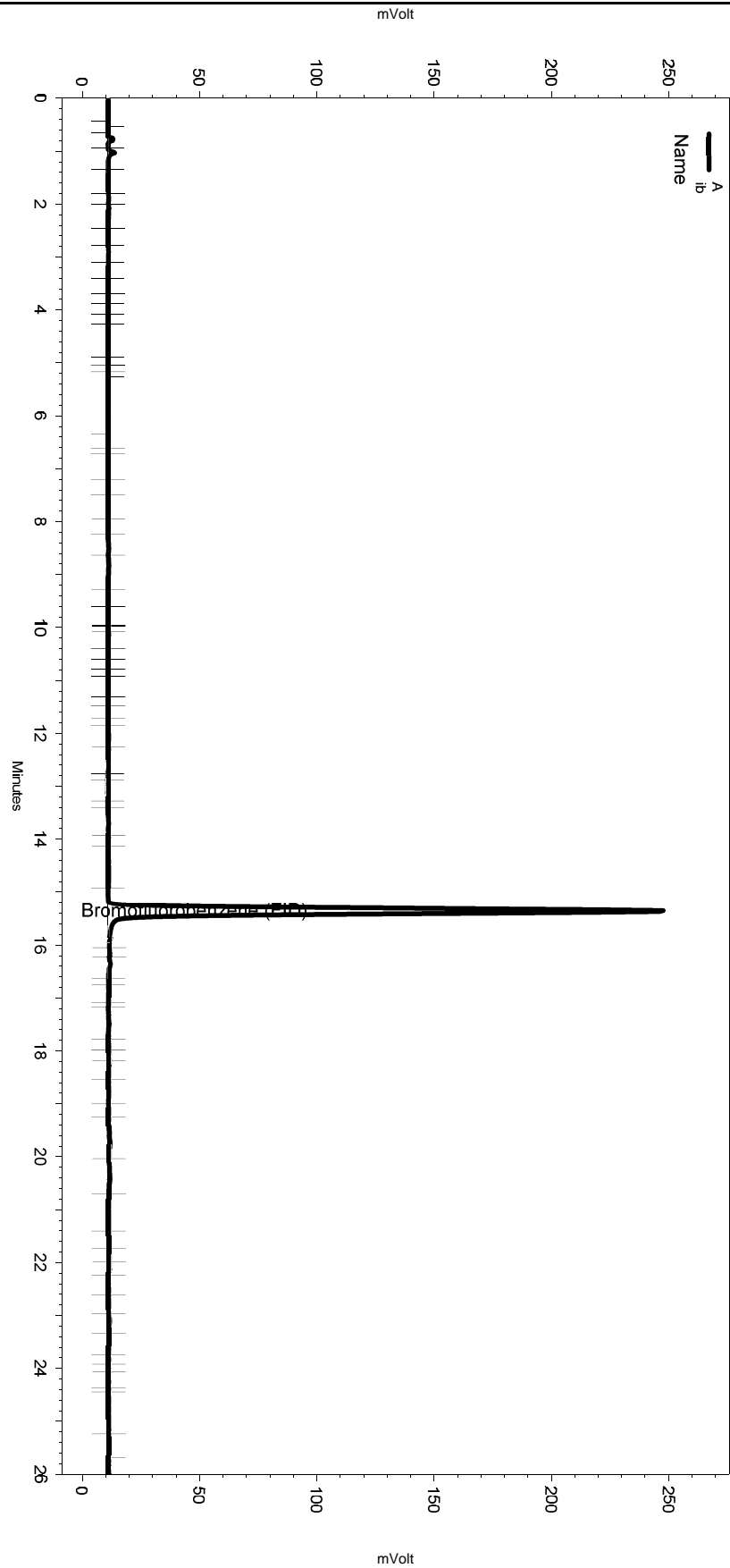
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.950	1.983	428	0.594
Benzene		3.483		0.000 BDL
Toluene	6.966	6.900	364	0.184
Ethylbenzene		10.549		0.000 BDL
m,p-Xylenes	10.966	10.899	656	0.295
o-Xylene	11.799	11.749	231	0.120
Bromofluorobenzene (PID)	12.666	12.649	1290441	744.691

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-008
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 1:47:42 PM
 Analysis Date: 7/12/2018 2:16:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

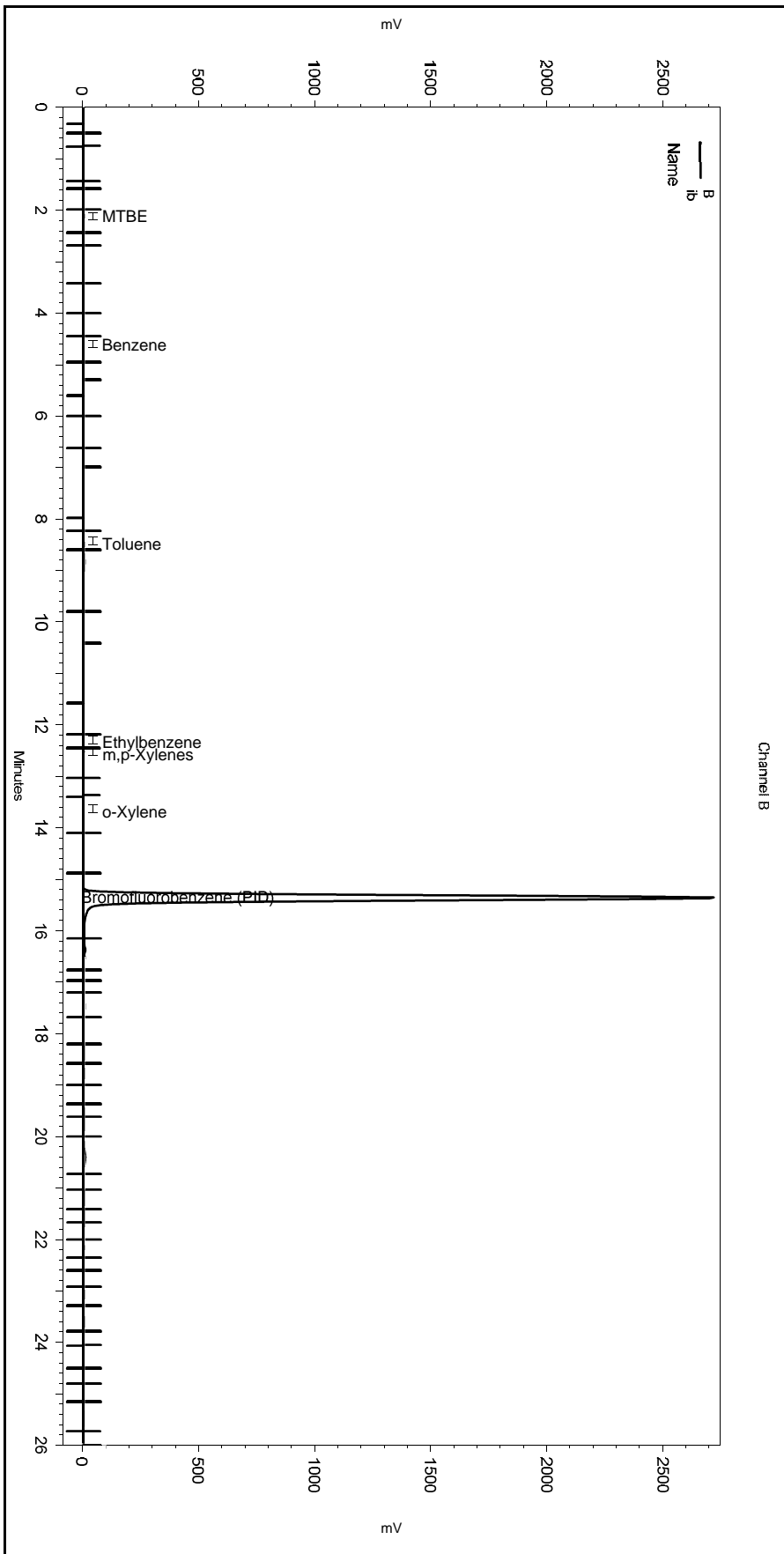
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-008_65CC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-008
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 1:47:42 PM
 Analysis Date: 7/12/2018 2:16:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

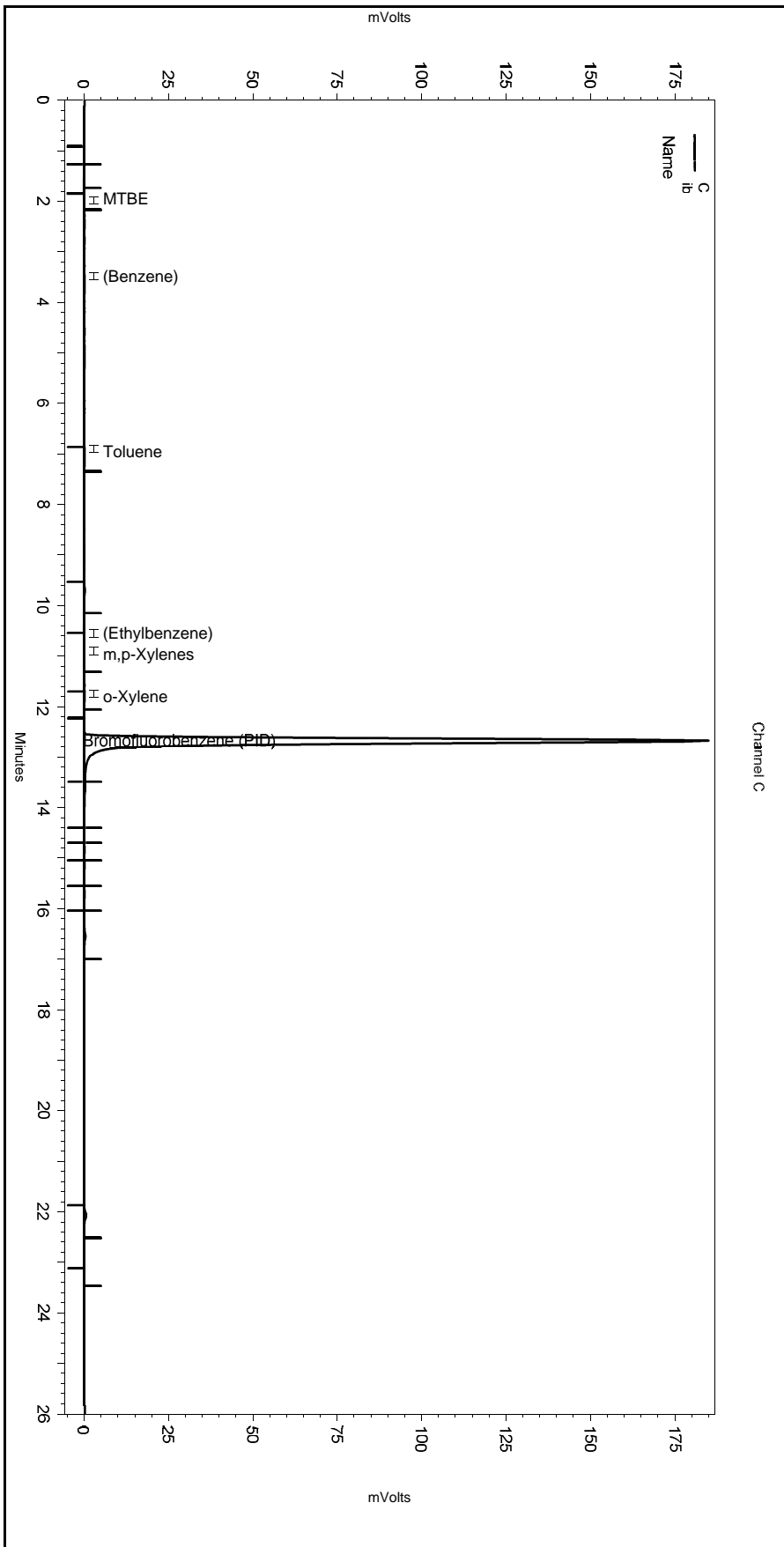
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-008_65CC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-008
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 1:47:42 PM
 Analysis Date: 7/12/2018 2:16:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-008_65CC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

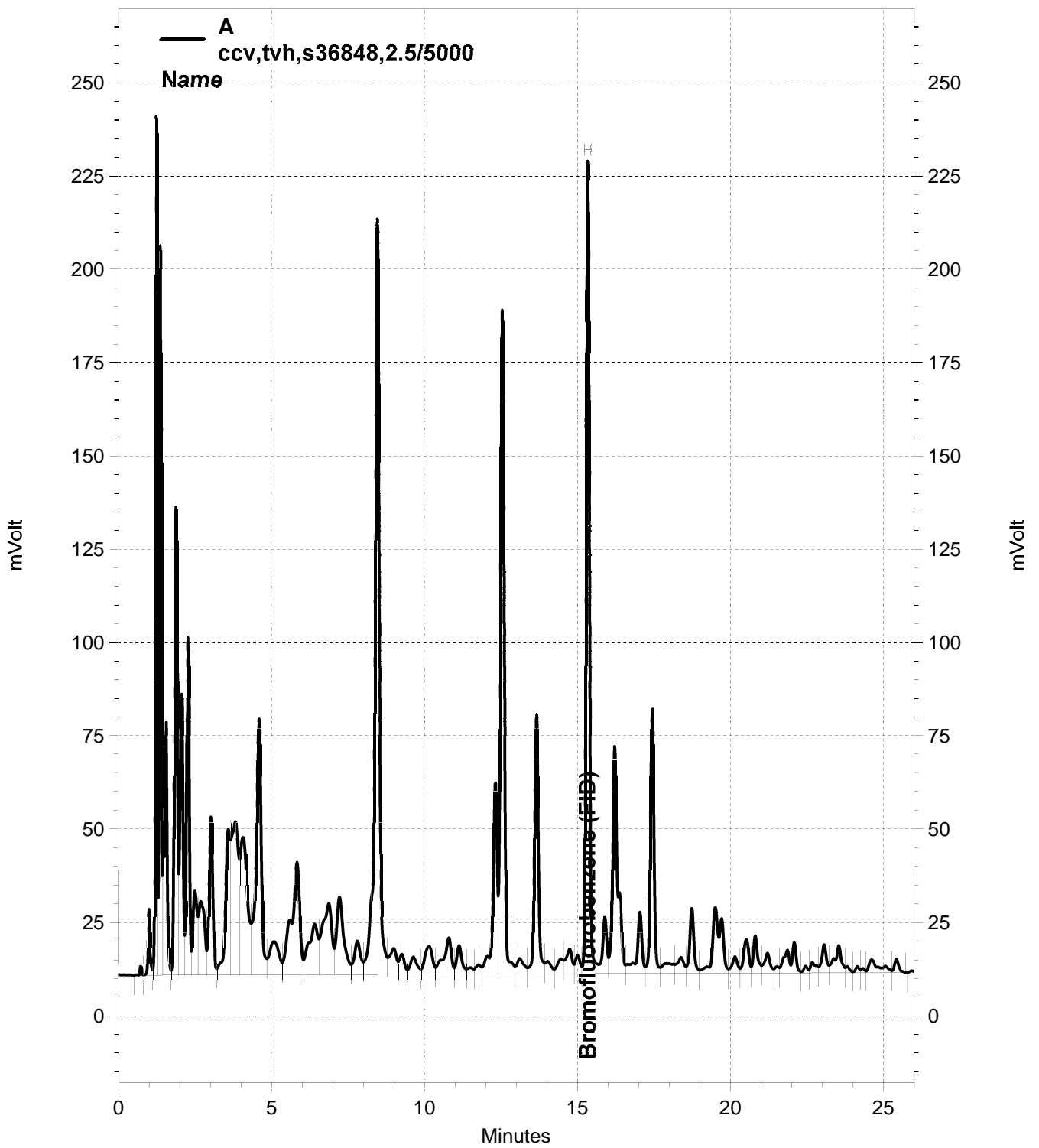
ENTHALPY SPIKE USER REPORT FOR 301314 GCVOA Water
EPA 8015B

Type : LCS
 Inst : GC07
 Seqnum : 328278480005.4
 File : 193_005
 IDF : 1.0
 PDF : 1.0
 Lab ID : QC939276
 Matrix : Water
 Batch : 261354
 Time : 12-JUL-2018 11:53
 Cal : 328275574001
 Units : ug/L

Analyte	Spiked	Raw	LCS	Ch	%Rec	Limits	Flags
Gasoline C7-C12	1000	4550	909.9	A	91	80-120	u
Bromofluorobenzene (FID)	180.0	724.4	144.9	A	80	79-120	<c- u

Analyst: JM2 Date: 07/13/18 Reviewer: EAH Date: 07/13/18

--=low bias <=opening c=CCV u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-005, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: ccv,tvh,s36848,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-005
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/12/2018 11:53:45 AM
Analysis Date: 7/12/2018 12:22:28 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1621025	724.415
GAS:6-10			11710935	4624.388
GAS:6-12			14510241	4559.035
GAS:7-12			11389987	4549.702
JP4:7-12			11389987	3037.978

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.617	4.600	2065630	61.272
Toluene	8.467	8.433	10422937	329.618
Ethylbenzene	12.333	12.300	2055436	74.502
m,p-Xylenes	12.550	12.517	8873752	257.949
o-Xylene	13.667	13.633	3084613	109.578
Bromofluorobenzene (PID)	15.333	15.317	18540205	728.062

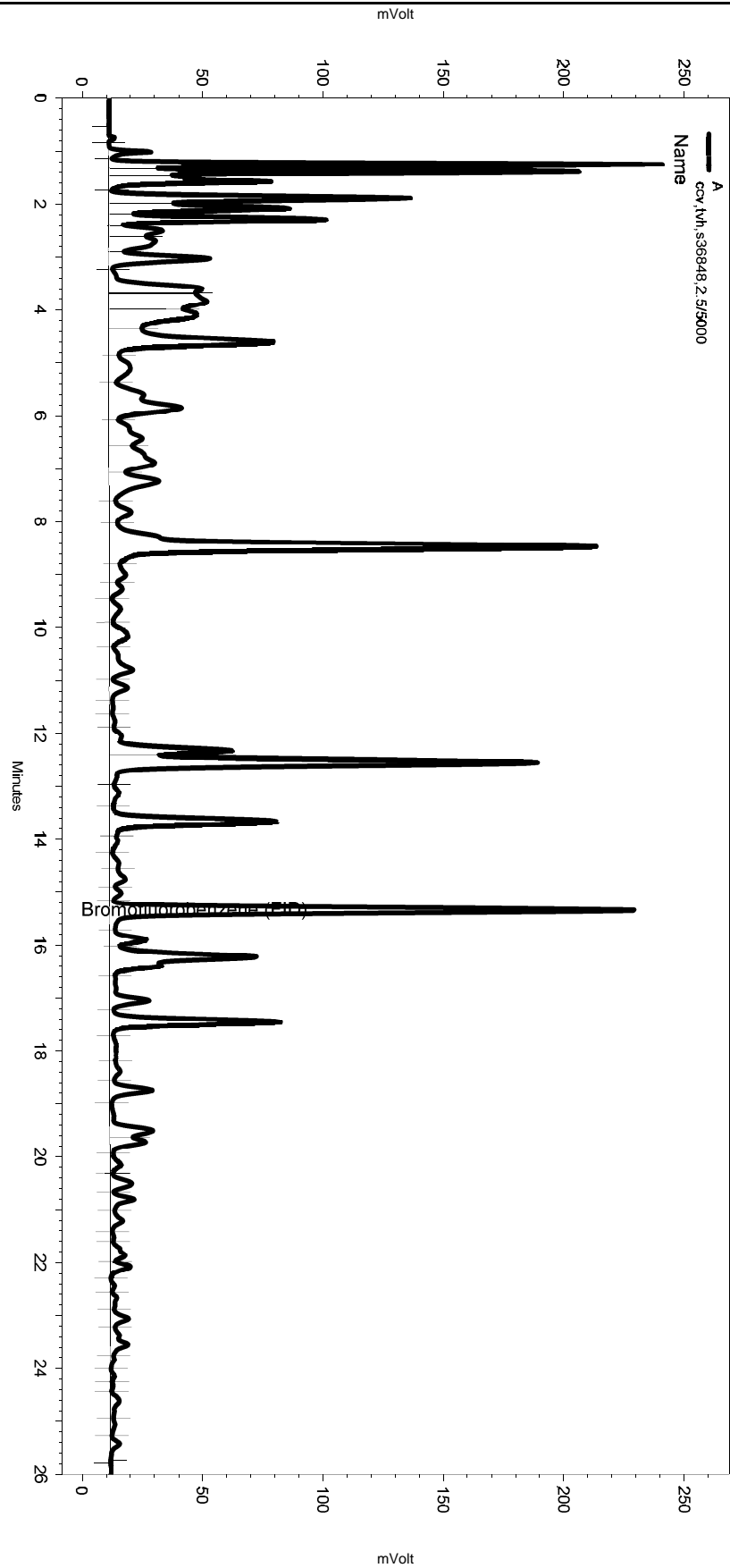
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	1.983	34762	48.242
Benzene	3.500	3.483	112078	51.901
Toluene	6.916	6.900	679849	342.991
Ethylbenzene	10.566	10.549	122609	75.059
m,p-Xylenes	10.916	10.899	591105	266.011
o-Xylene	11.766	11.749	192413	100.259
Bromofluorobenzene (PID)	12.683	12.649	1205082	695.432

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-005
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 11:53:45 AM
 Analysis Date: 7/12/2018 12:22:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel A

 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

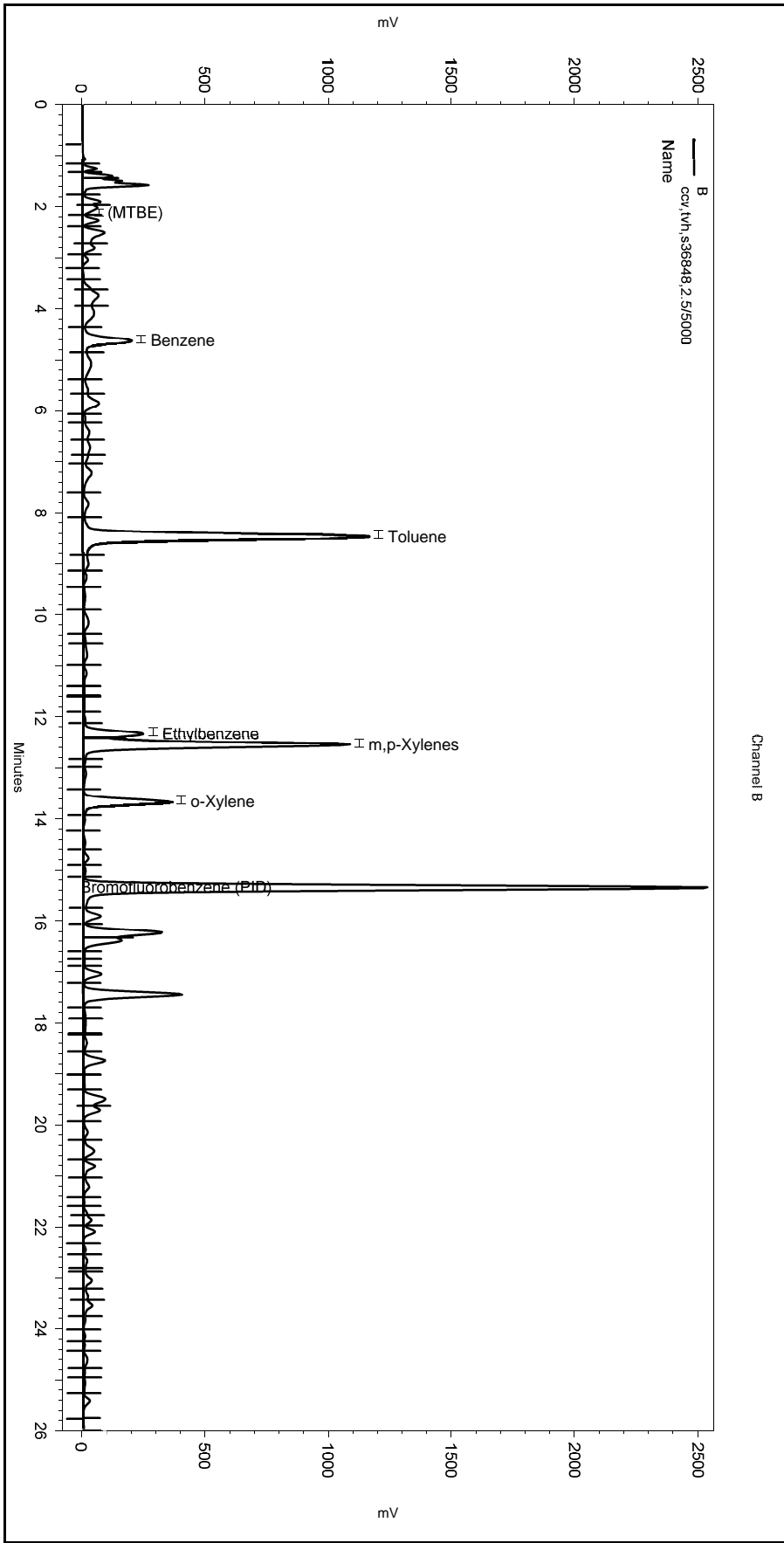
=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-005_65C9.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-005
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 11:53:45 AM
 Analysis Date: 7/12/2018 12:22:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

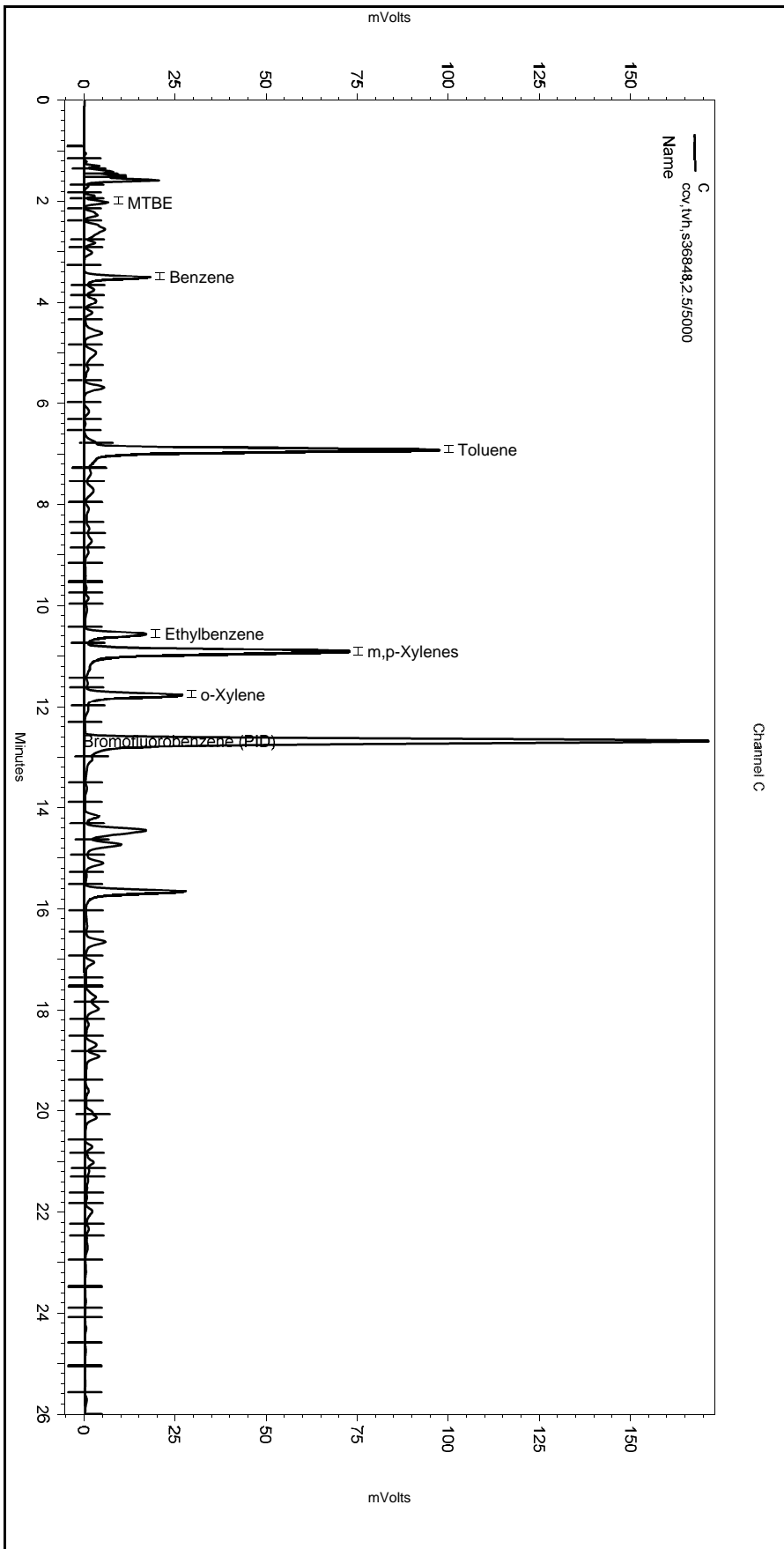
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-005_65C9.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-005
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 11:53:45 AM
 Analysis Date: 7/12/2018 12:22:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-005_65C9.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SPIKE USER REPORT FOR 301314 GCVOA Water
EPA 8021B

Type : CCV/BS
 Inst : GC07
 Seqnum : 328277310003.6
 File : 192_003
 IDF : 1.0
 PDF : 1.0
 Lab ID : QC939171
 Matrix : Water
 Batch : 261329
 Time : 11-JUL-2018 15:06
 Cal : 328176634001
 Units : ug/L

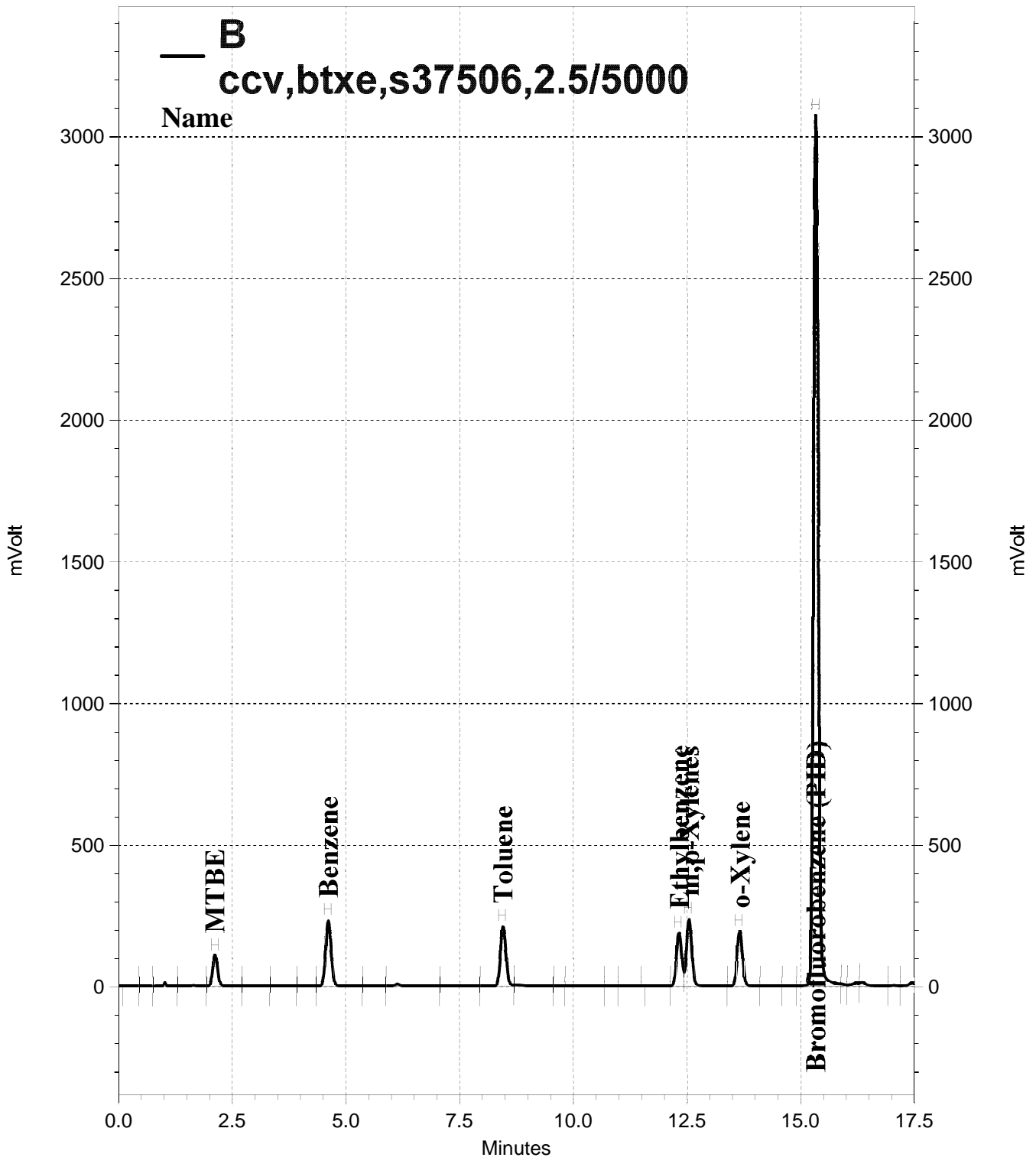
Type : BSD
 Inst : GC07
 Seqnum : 328277310006.6
 File : 192_006
 IDF : 1.0
 PDF : 1.0
 Lab ID : QC939172
 Matrix : Water
 Batch : 261329
 Time : 11-JUL-2018 17:01
 Cal : 328176634001

Analyte	Spiked	CCV/BS	CCV/BS	Ch	%Rec	BSD	BSD	Ch	%Rec	Limits	RPD	Lim	Flags
		Raw	Result			Raw	Result						
Benzene	10.00	53.69	10.74	C	107	52.62	10.52	C	105	80-120	2	20	u
Toluene	10.00	52.41	10.48	C	105	51.23	10.25	C	102	80-120	2	20	u
Ethylbenzene	10.00	52.60	10.52	C	105	51.72	10.34	C	103	79-120	2	20	u
m,p-Xylenes	10.00	51.92	10.38	C	104	50.83	10.17	C	102	79-120	2	20	u
o-Xylene	10.00	49.76	9.952	C	100	49.50	9.900	C	99	80-120	1	20	u
Bromofluorobenzene (PID)	180.0	809.5	161.9	C	90	808.1	161.6	C	90	71-127			>c- u

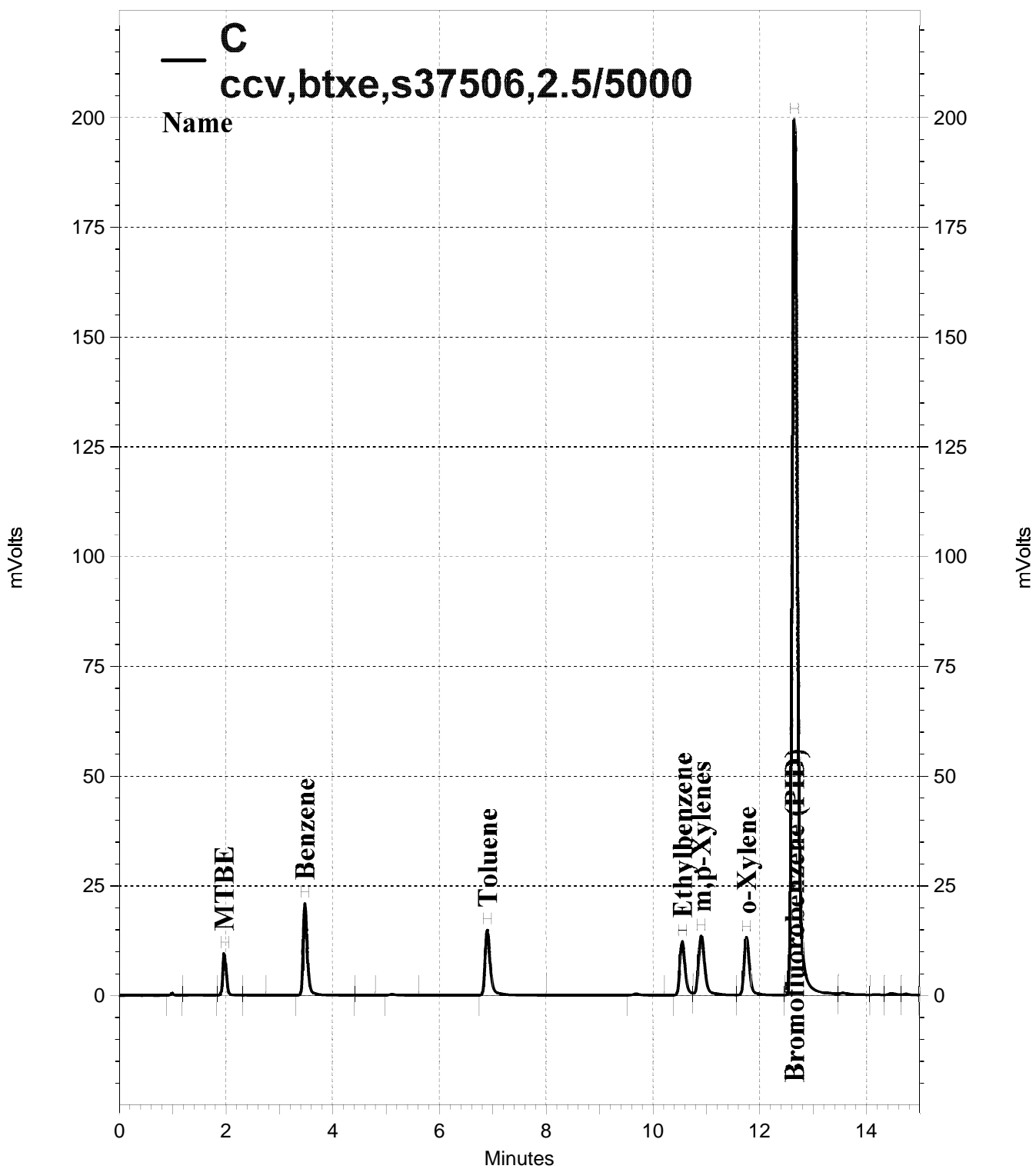
JM2 07/11/18 : Reporting from Ch. C using Ch. B as confirmation. [general version]

Analyst: JM2 Date: 07/13/18 Reviewer: EAH Date: 07/13/18

--low bias >=closing c=CCV u=use



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\192.seq
Sample Name: ccv,btxe,s37506,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/11/2018 3:06:41 PM
Analysis Date: 7/11/2018 3:35:25 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1898918	848.602
GAS:6-10			1600867	632.147
GAS:6-12			1764477	554.389
GAS:7-12			1746136	697.490
JP4:7-12			1746136	465.736

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.117	846889	73.481
Benzene	4.617	4.600	1995455	59.190
Toluene	8.450	8.433	1806630	57.133
Ethylbenzene	12.333	12.300	1511472	54.785
m,p-Xylenes	12.550	12.517	1941670	56.442
o-Xylene	13.667	13.633	1610140	57.199
Bromofluorobenzene (PID)	15.333	15.317	22202534	871.879

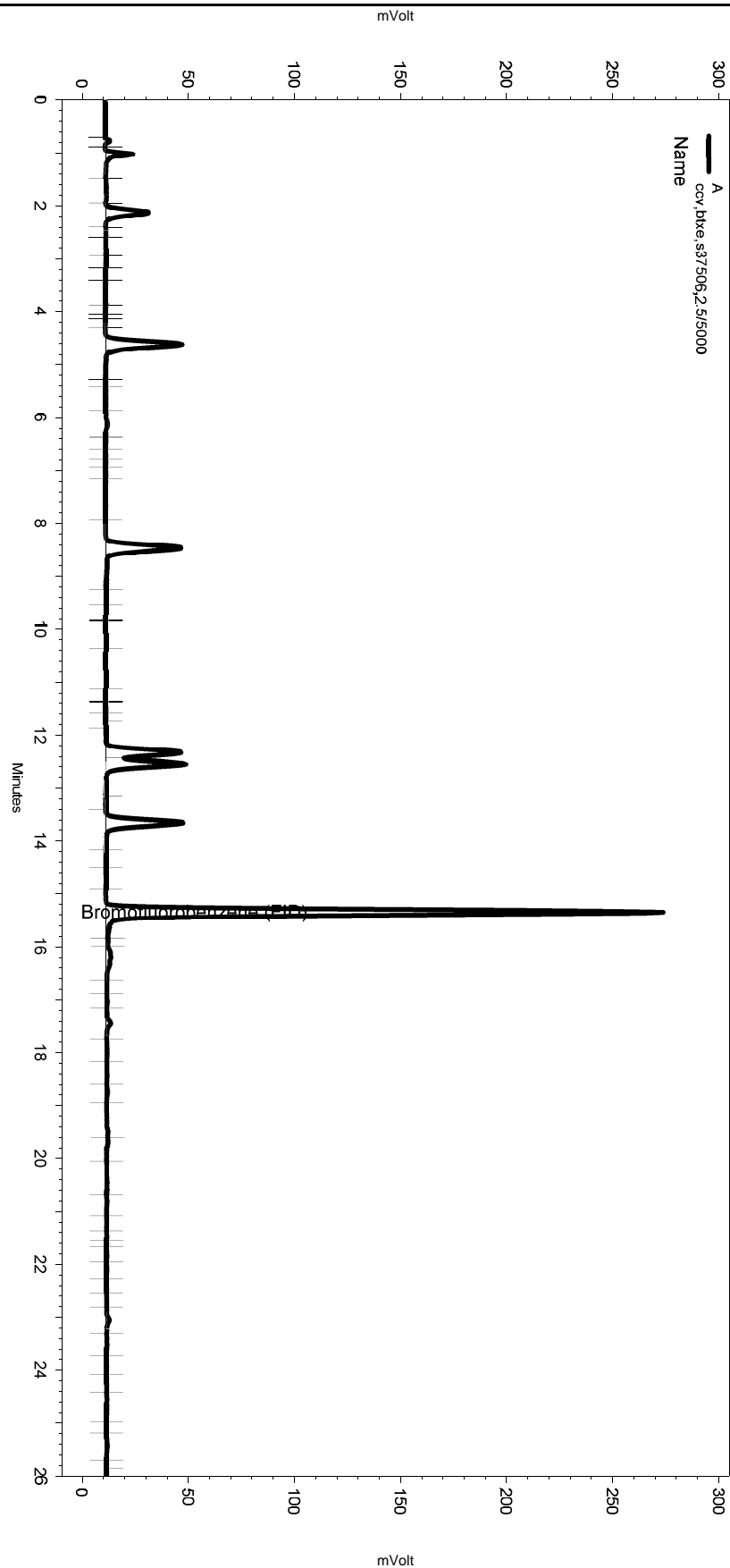
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.967	1.983	45713	63.439
Benzene	3.483	3.483	115949	53.694
Toluene	6.900	6.900	103879	52.408
Ethylbenzene	10.549	10.549	85924	52.601
m,p-Xylenes	10.899	10.899	115362	51.916
o-Xylene	11.749	11.749	95496	49.759
Bromofluorobenzene (PID)	12.649	12.649	1402812	809.539

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 3:06:41 PM
 Analysis Date: 7/11/2018 3:35:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

=====
 Manual Integration Fixes

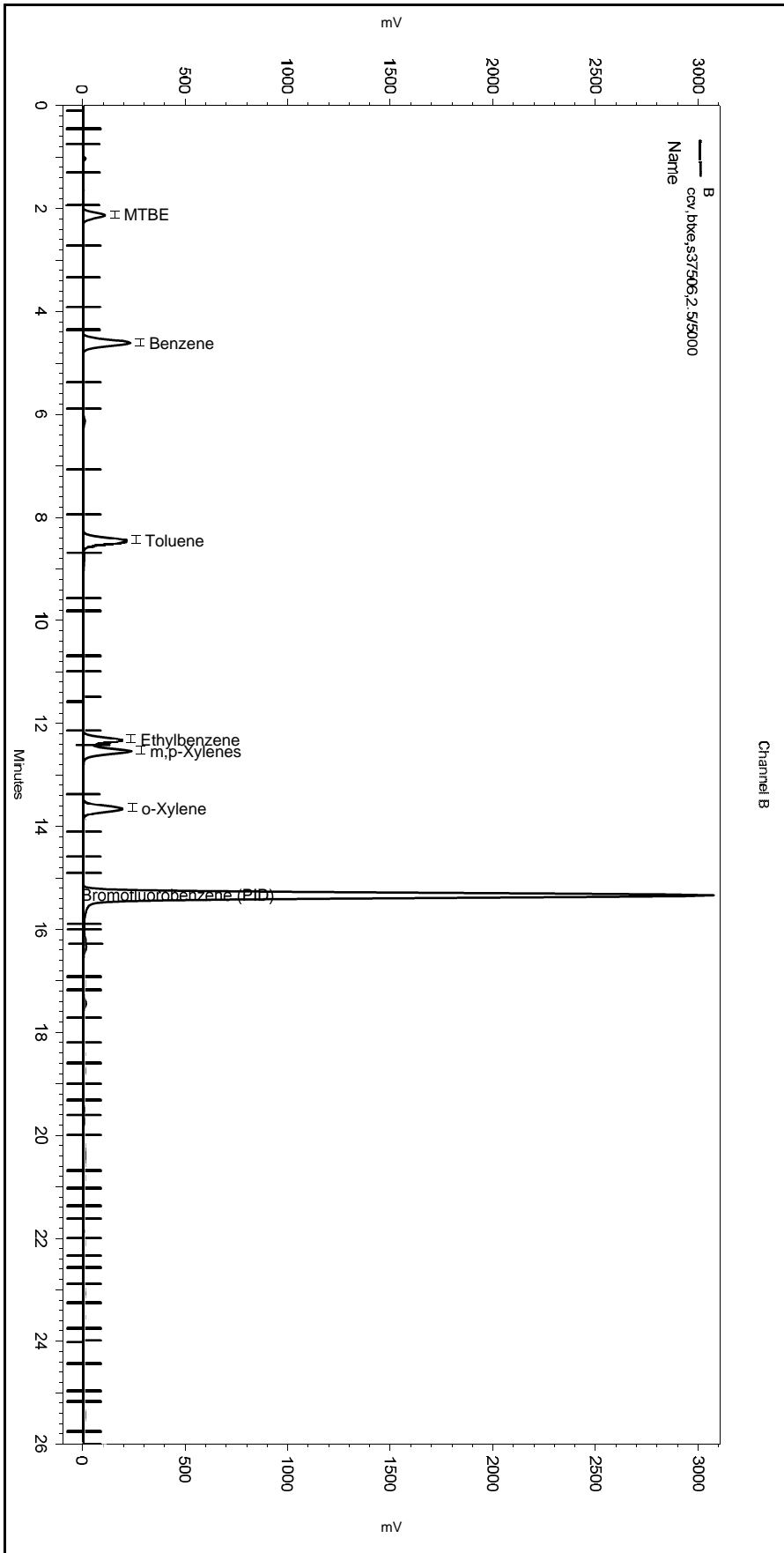
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\192-003_65AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 3:06:41 PM
 Analysis Date: 7/11/2018 3:35:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

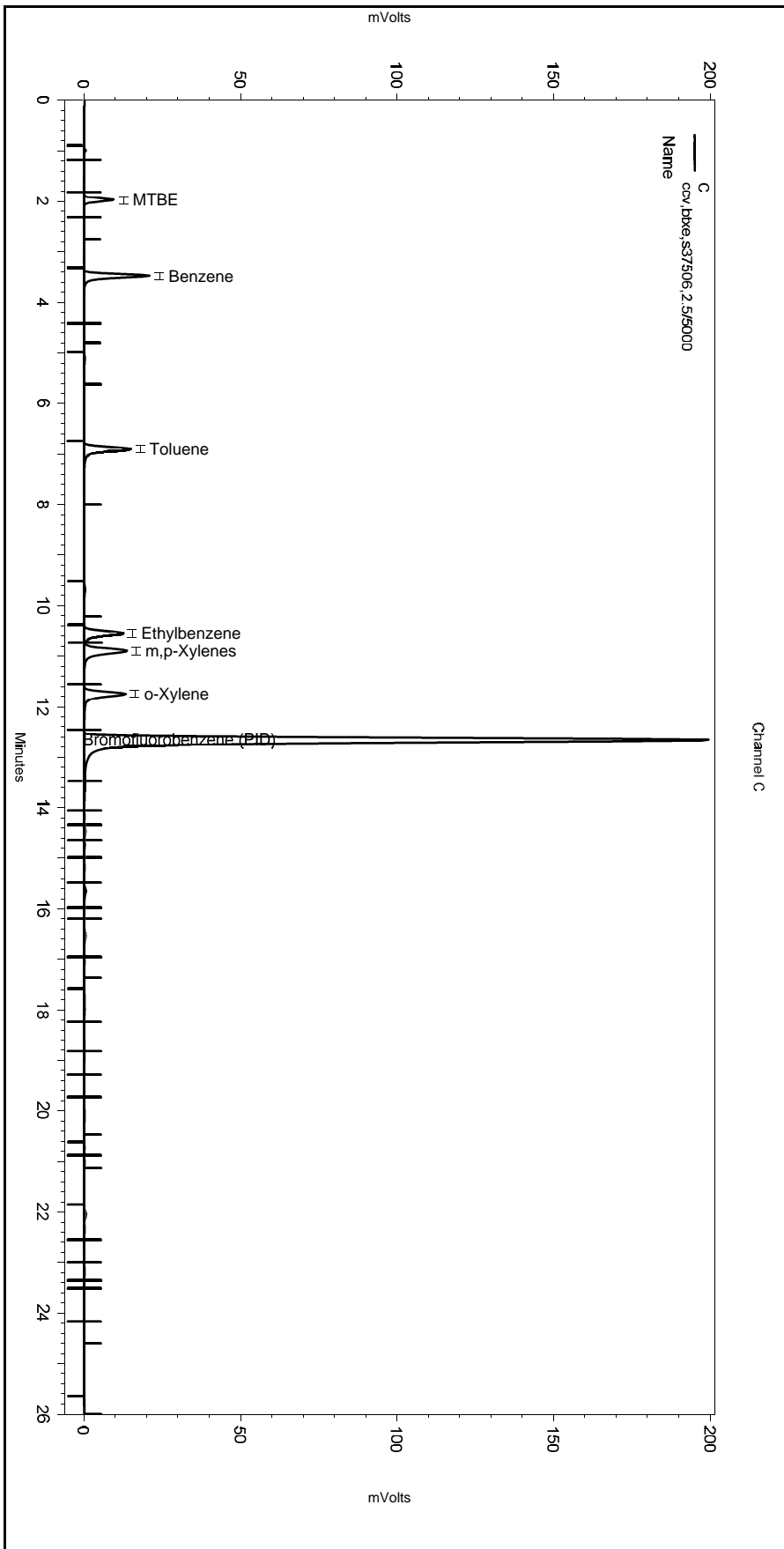
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-003_65AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 3:06:41 PM
 Analysis Date: 7/11/2018 3:35:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

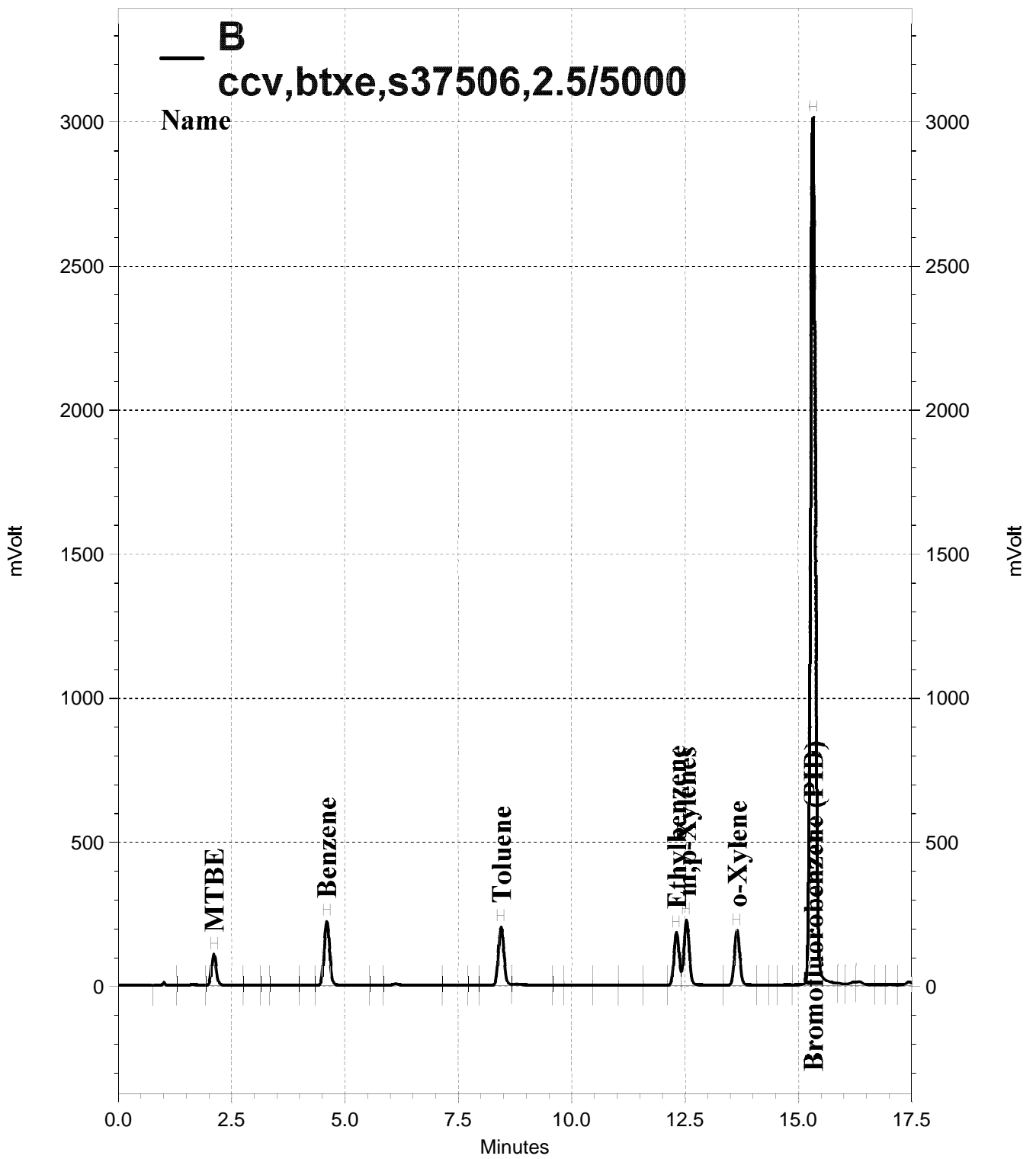
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

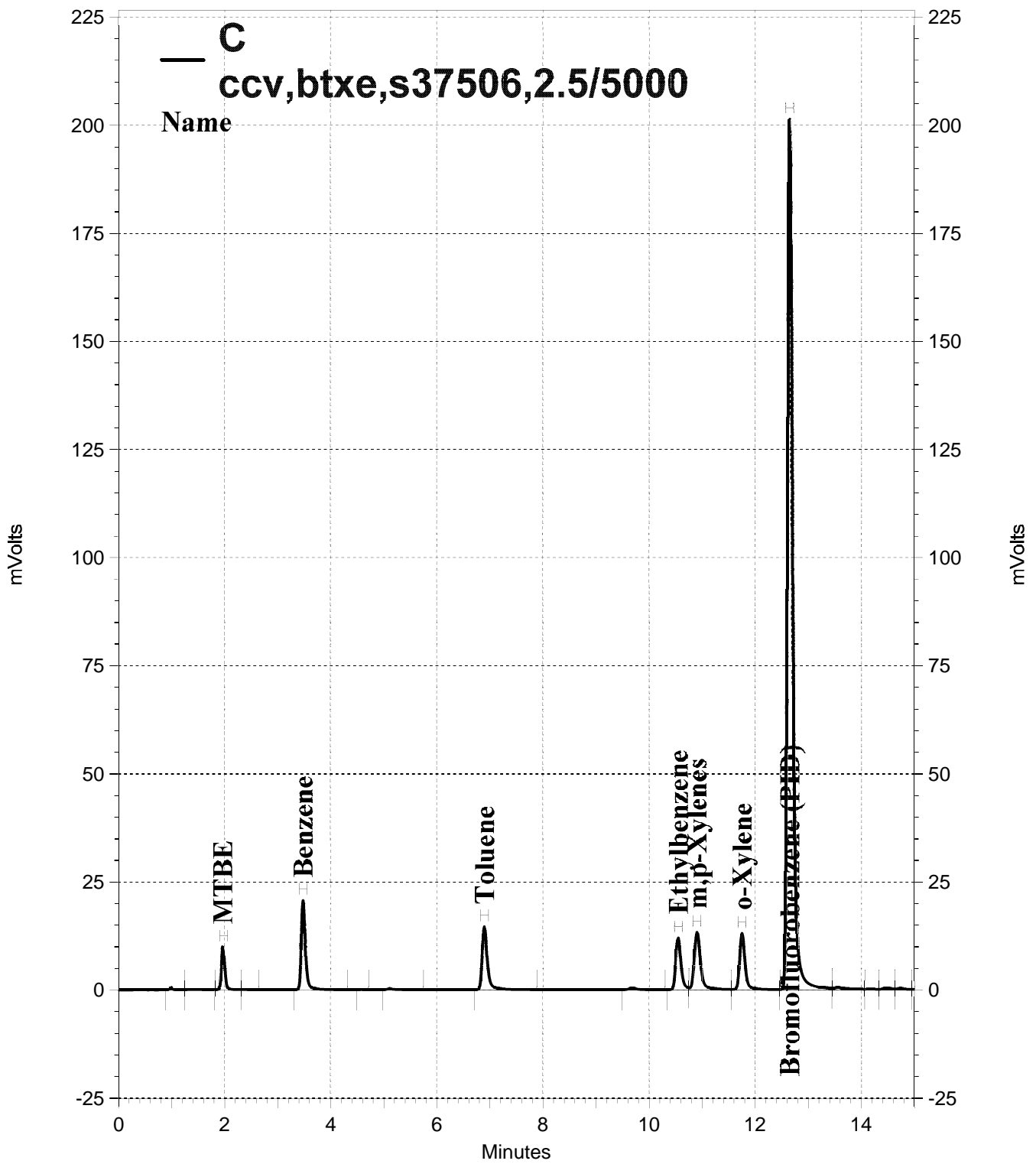
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-003_65AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-006, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-006, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\192.seq
Sample Name: ccv,btxe,s37506,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-006
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/11/2018 5:01:29 PM
Analysis Date: 7/11/2018 5:30:11 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1897578	848.003
GAS:6-10			1630813	643.972
GAS:6-12			1838419	577.621
GAS:7-12			1821887	727.748
JP4:7-12			1821887	485.940

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.117	828714	71.904
Benzene	4.600	4.600	1929540	57.235
Toluene	8.450	8.433	1742966	55.120
Ethylbenzene	12.317	12.300	1445089	52.379
m,p-Xylenes	12.533	12.517	1896112	55.118
o-Xylene	13.650	13.633	1577223	56.029
Bromofluorobenzene (PID)	15.333	15.317	22051812	865.960

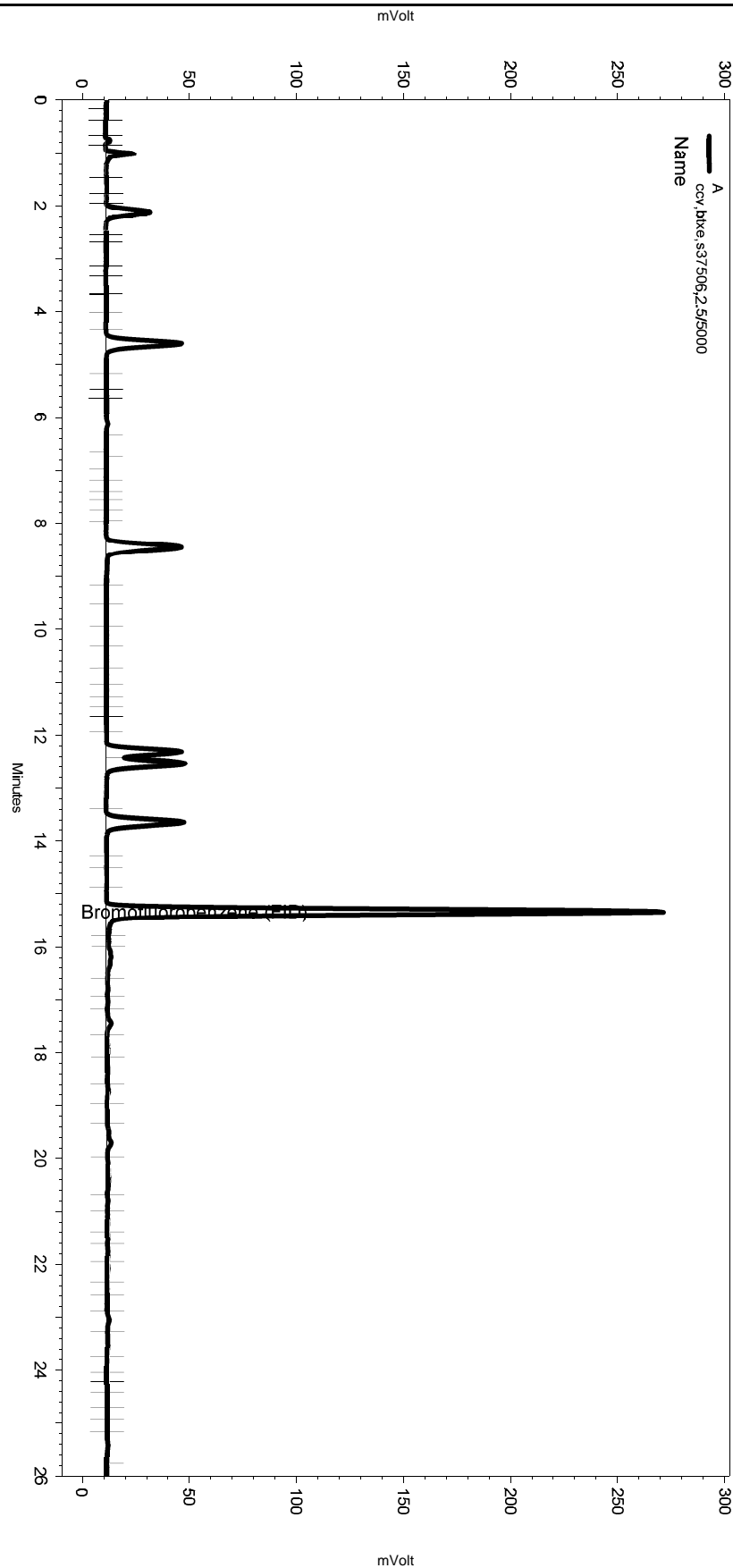
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.967	1.983	45590	63.268
Benzene	3.483	3.483	113639	52.624
Toluene	6.900	6.900	101546	51.231
Ethylbenzene	10.549	10.549	84486	51.721
m,p-Xylenes	10.899	10.899	112955	50.832
o-Xylene	11.749	11.749	94996	49.499
Bromofluorobenzene (PID)	12.649	12.649	1400320	808.101

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-006
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 5:01:29 PM
 Analysis Date: 7/11/2018 5:30:11 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

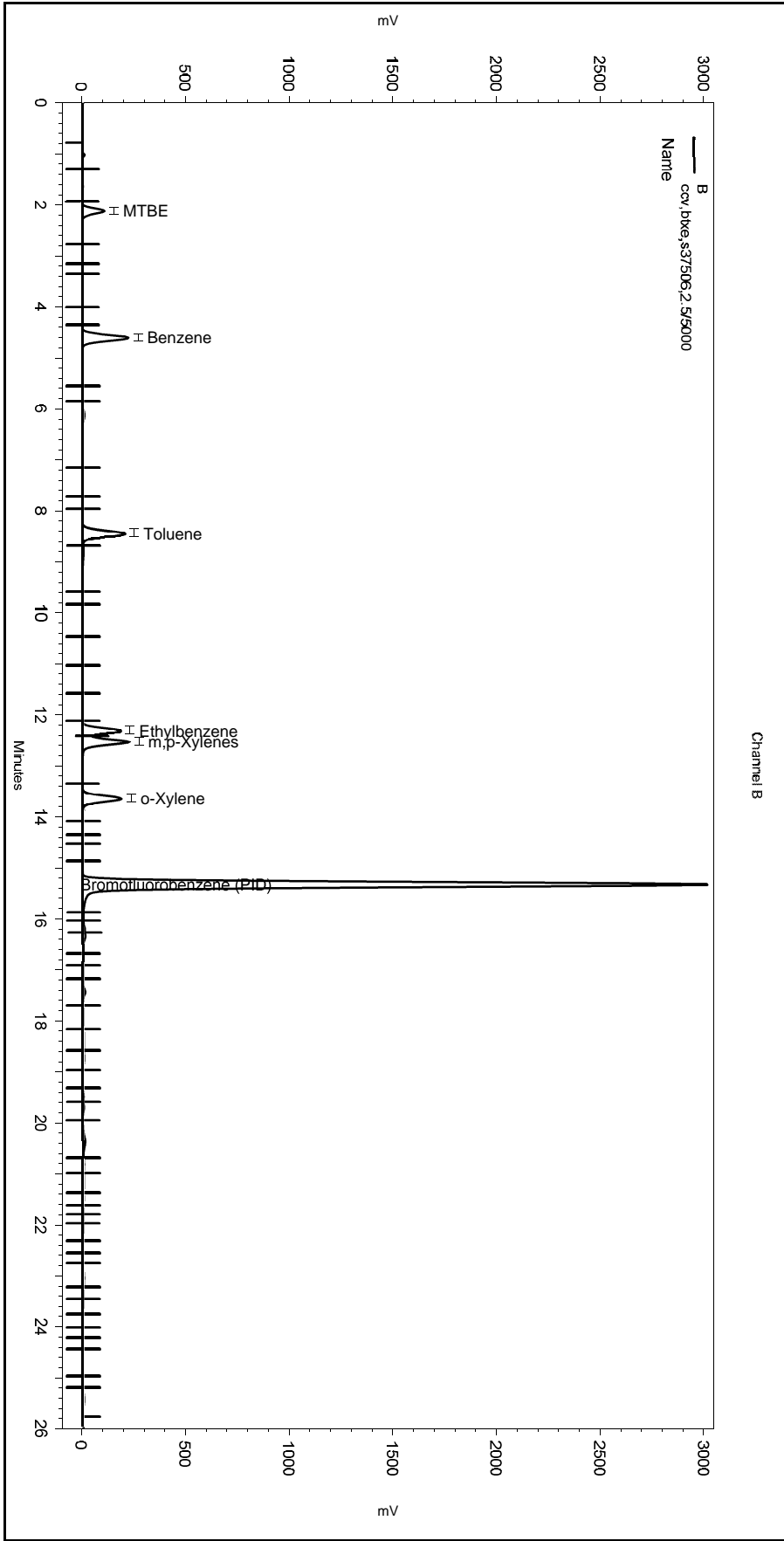
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\192-006_65AE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-006
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 5:01:29 PM
 Analysis Date: 7/11/2018 5:30:11 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

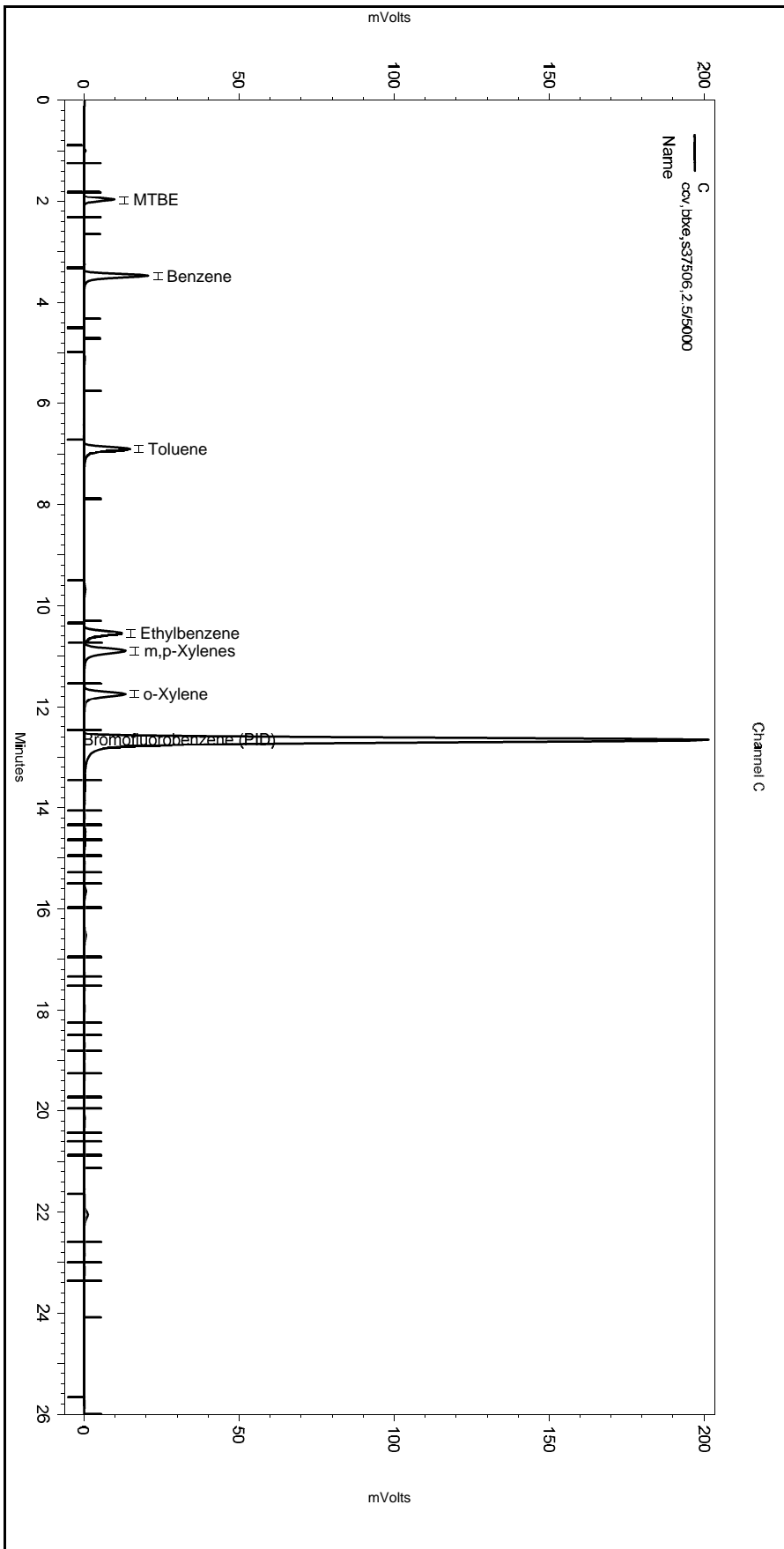
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-006_65AE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-006
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 5:01:29 PM
 Analysis Date: 7/11/2018 5:30:11 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-006_65AE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

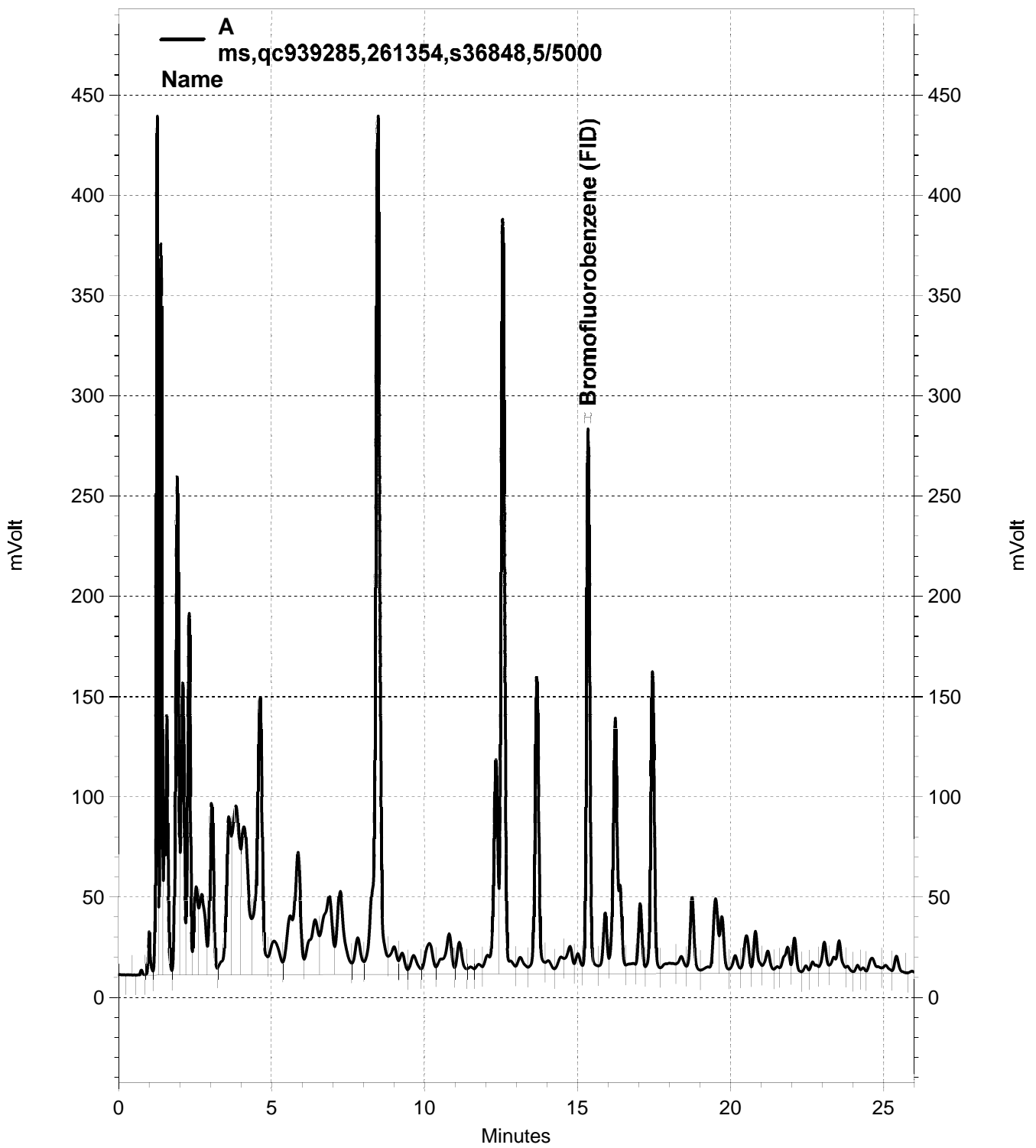
ENTHALPY SPIKE USER REPORT FOR 301314 GCVOA Water
EPA 8015B

Type : MSS	Type : MS	Type : MSD
Inst : GC07	Inst : GC07	Inst : GC07
Seqnum : 328278480017	Seqnum : 328278480024.4	Seqnum : 328278480025.4
File : 193_017	File : 193_024	File : 193_025
IDF : 1.0	IDF : 1.0	IDF : 1.0
PDF : 1.0	PDF : 1.0	PDF : 1.0
Lab ID : 301314-001	Lab ID : QC939285	Lab ID : QC939286
Matrix : Water	Matrix : Water	Matrix : Water
Batch : 261354	Batch : 261354	Batch : 261354
Time : 12-JUL-2018 19:49	Time : 13-JUL-2018 00:17	Time : 13-JUL-2018 00:56
Cal : 328275574001	Cal : 328275574001	Cal : 328275574001
Units : ug/L		

Analyte	MSS	Ch	Spiked	MS		Ch	%Rec	MSD		Ch	%Rec	Limits	RPD	Lim	Flags
				Raw	Result			Raw	Result						
Gasoline C7-C12	15.13 J	A	2000	9372	1874	A	93	9385	1877	A	93	80-120	0	20	u
Bromofluorobenzene (FID)			180.0	901.1	180.2	A	100	888.7	177.7	A	99	79-120			u

Analyst: JM2 Date: 07/13/18 Reviewer: EAH Date: 07/13/18

u=use



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-024, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: ms,qc939285,261354,s36848,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-024
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/13/2018 12:17:57 AM
Analysis Date: 7/13/2018 12:46:40 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	2016334	901.074
GAS:6-10			24006704	9479.713
GAS:6-12			29734516	9342.417
GAS:7-12			23461892	9371.797
JP4:7-12			23461892	6257.841

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.650	4.600	4373665	129.734
Toluene	8.483	8.433	22173630	701.226
Ethylbenzene	12.333	12.300	4449486	161.276
m,p-Xylenes	12.567	12.517	18716347	544.060
o-Xylene	13.667	13.633	6656734	236.475
Bromofluorobenzene (PID)	15.350	15.317	23157289	909.372

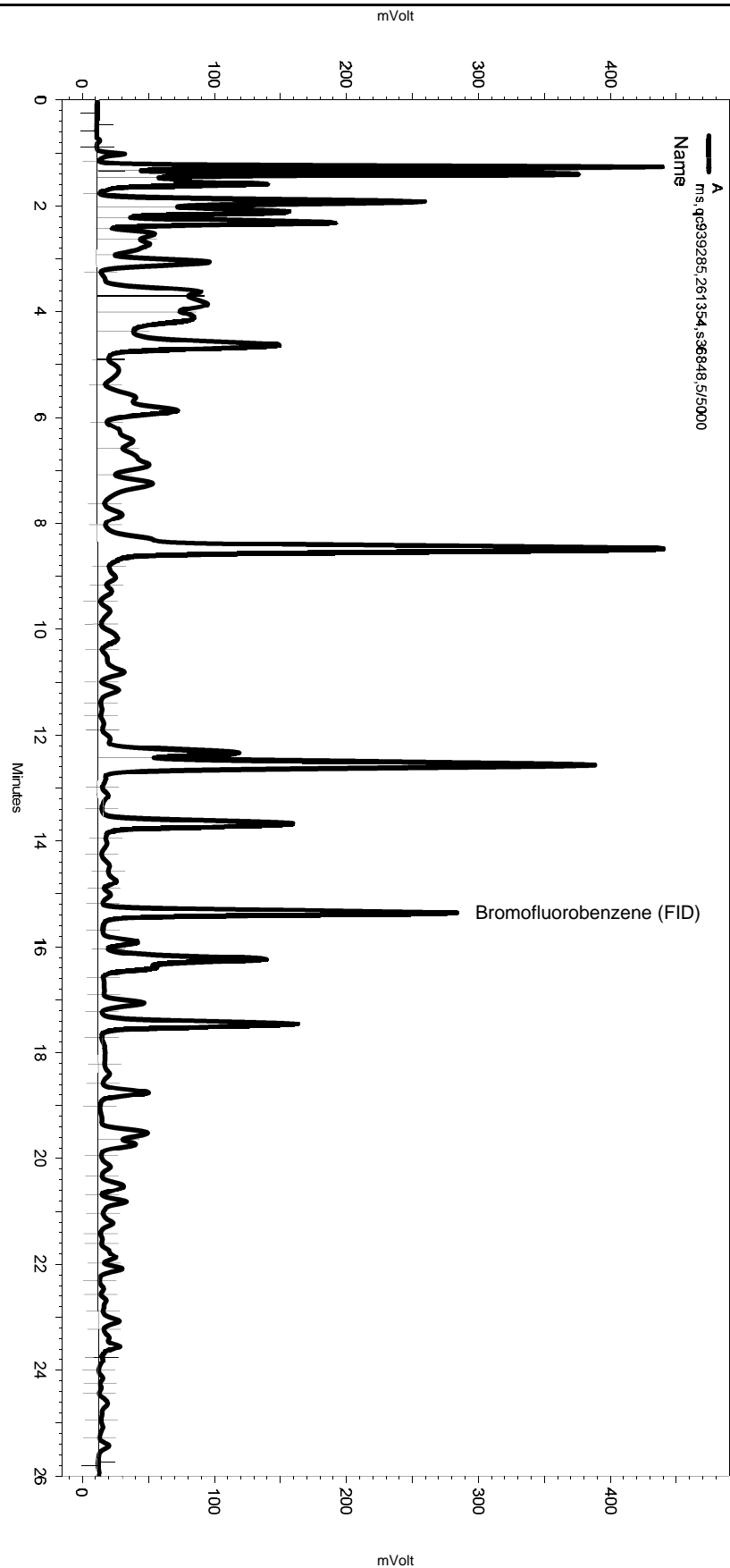
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	1.983	70654	98.052
Benzene	3.516	3.483	240039	111.157
Toluene	6.916	6.900	1432871	722.898
Ethylbenzene	10.549	10.549	269137	164.761
m,p-Xylenes	10.899	10.899	1234294	555.462
o-Xylene	11.766	11.749	420849	219.287
Bromofluorobenzene (PID)	12.666	12.649	1499520	865.347

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ms,qc939285,261354,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-024
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/13/2018 12:17:57 AM
 Analysis Date: 7/13/2018 12:46:40 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

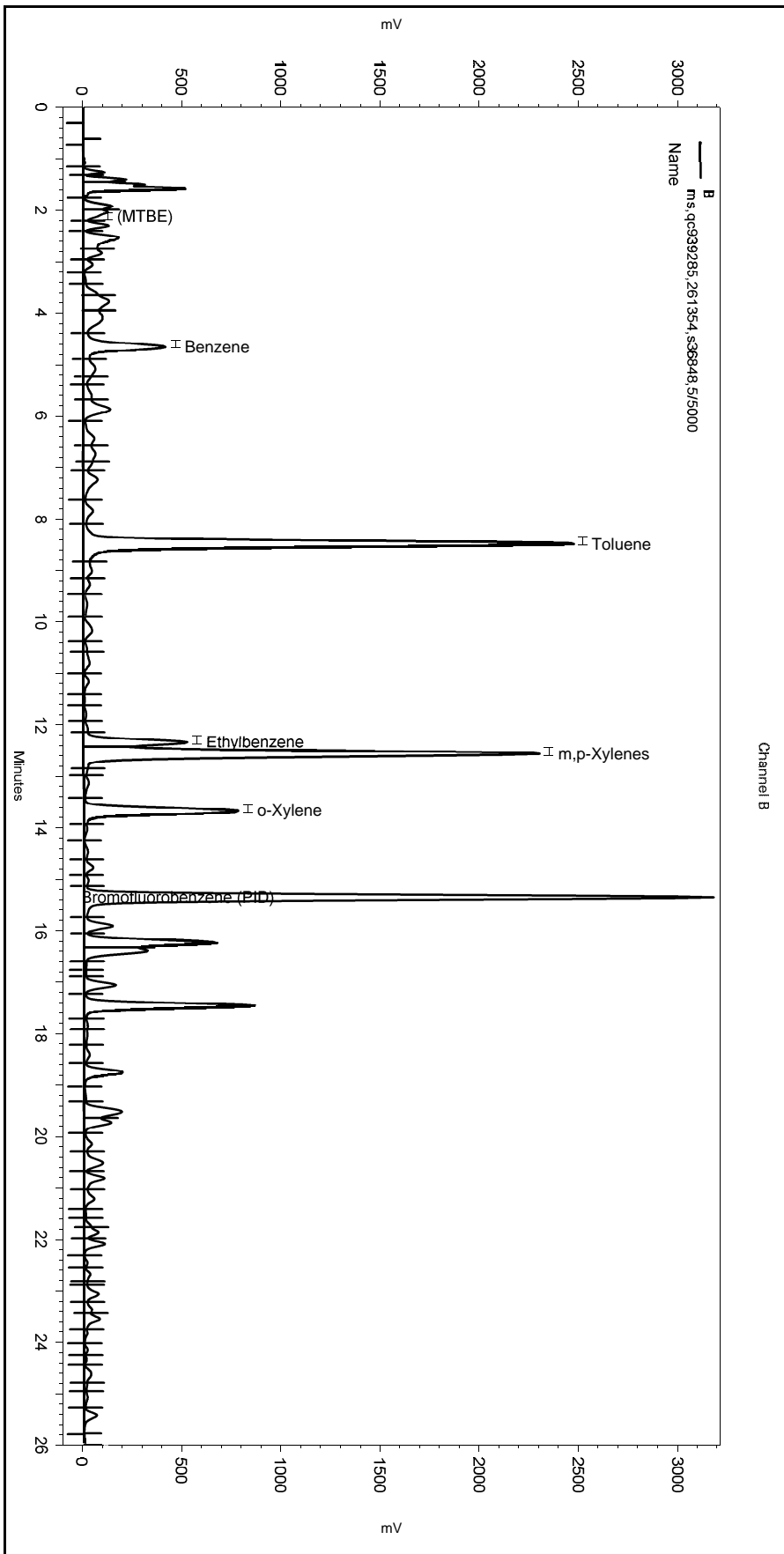
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-024_65DC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ms,qc939285,261354,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-024
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/13/2018 12:17:57 AM
 Analysis Date: 7/13/2018 12:46:40 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

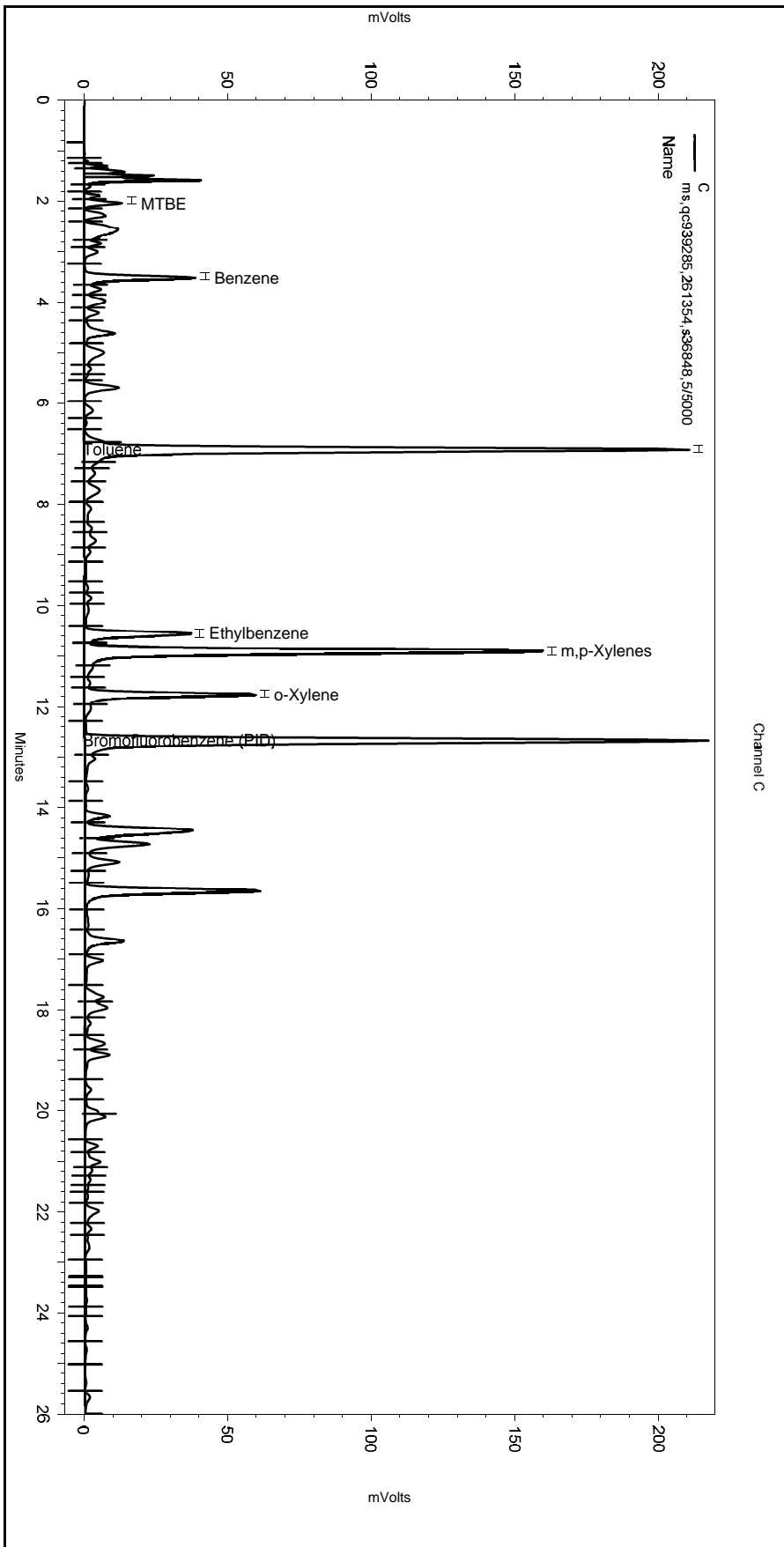
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-024_65DC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ms,qc939285,261354,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-024
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/13/2018 12:17:57 AM
 Analysis Date: 7/13/2018 12:46:40 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

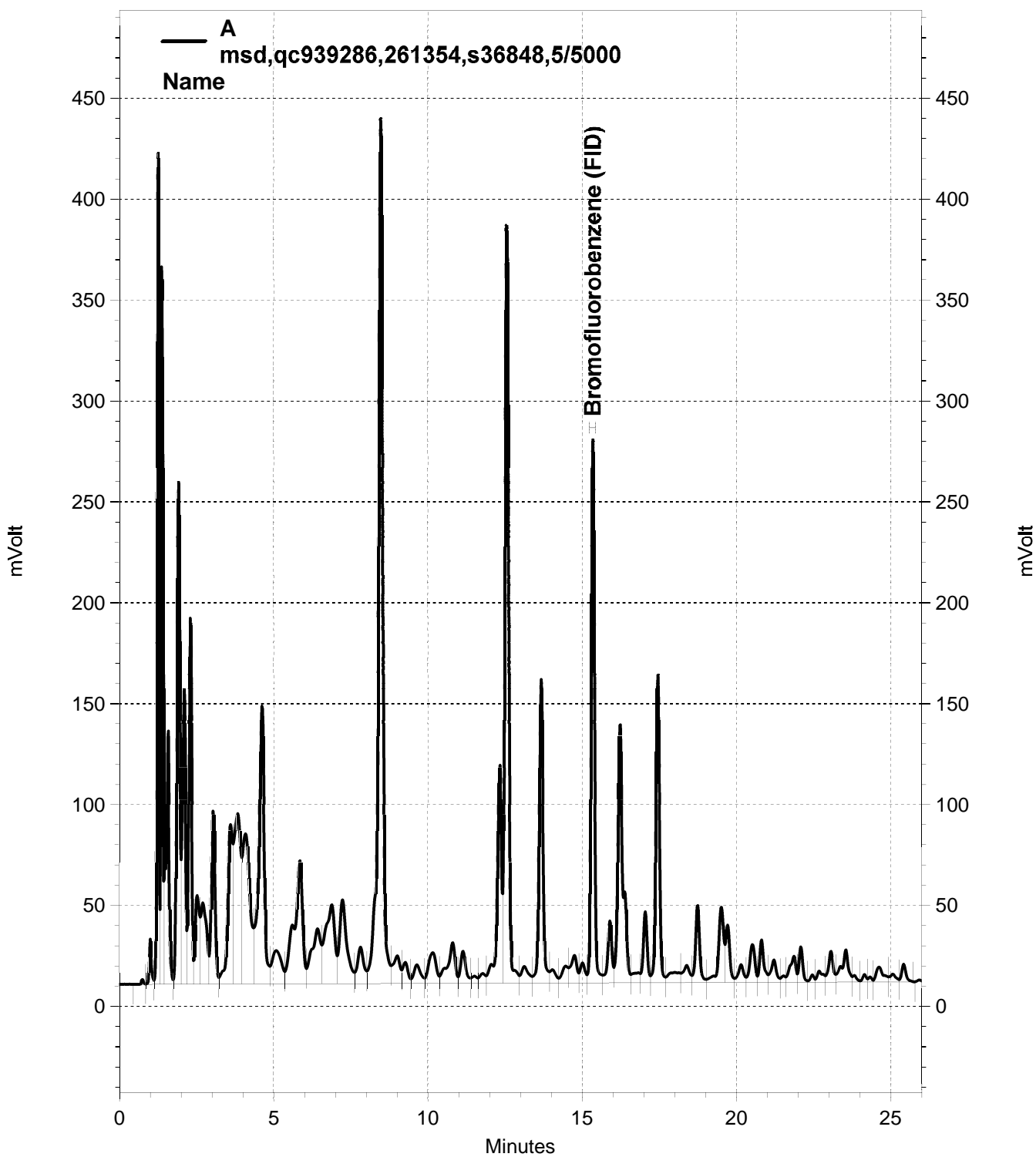
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-024_65DC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-025, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
 Sample Name: msd,qc939286,261354,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-025
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/13/2018 12:56:02 AM
 Analysis Date: 7/13/2018 1:24:45 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1988604	888.681
GAS:6-10			24048376	9496.169
GAS:6-12			29785828	9358.538
GAS:7-12			23494036	9384.635
JP4:7-12			23494036	6266.413

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.650	4.600	4265735	126.533
Toluene	8.467	8.433	22113955	699.339
Ethylbenzene	12.333	12.300	4288923	155.457
m,p-Xylenes	12.550	12.517	18960387	551.154
o-Xylene	13.667	13.633	6640198	235.887
Bromofluorobenzene (PID)	15.350	15.317	22880345	898.496

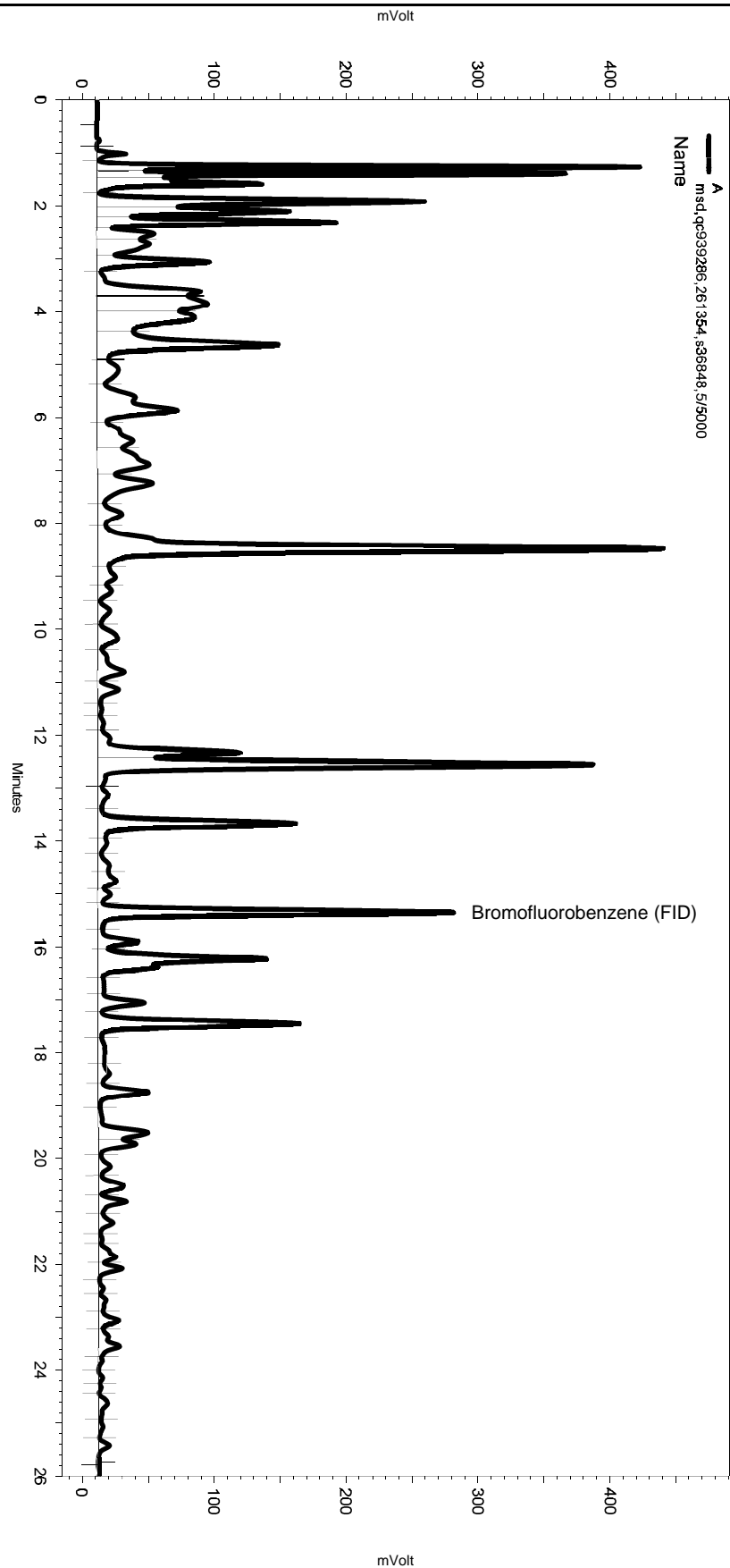
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	1.983	70043	97.204
Benzene	3.516	3.483	240369	111.310
Toluene	6.916	6.900	1434454	723.697
Ethylbenzene	10.549	10.549	270953	165.873
m,p-Xylenes	10.899	10.899	1241688	558.790
o-Xylene	11.766	11.749	423327	220.578
Bromofluorobenzene (PID)	12.666	12.649	1480358	854.289

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: msd,qc939286,261354,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-025
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/13/2018 12:56:02 AM
 Analysis Date: 7/13/2018 1:24:45 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

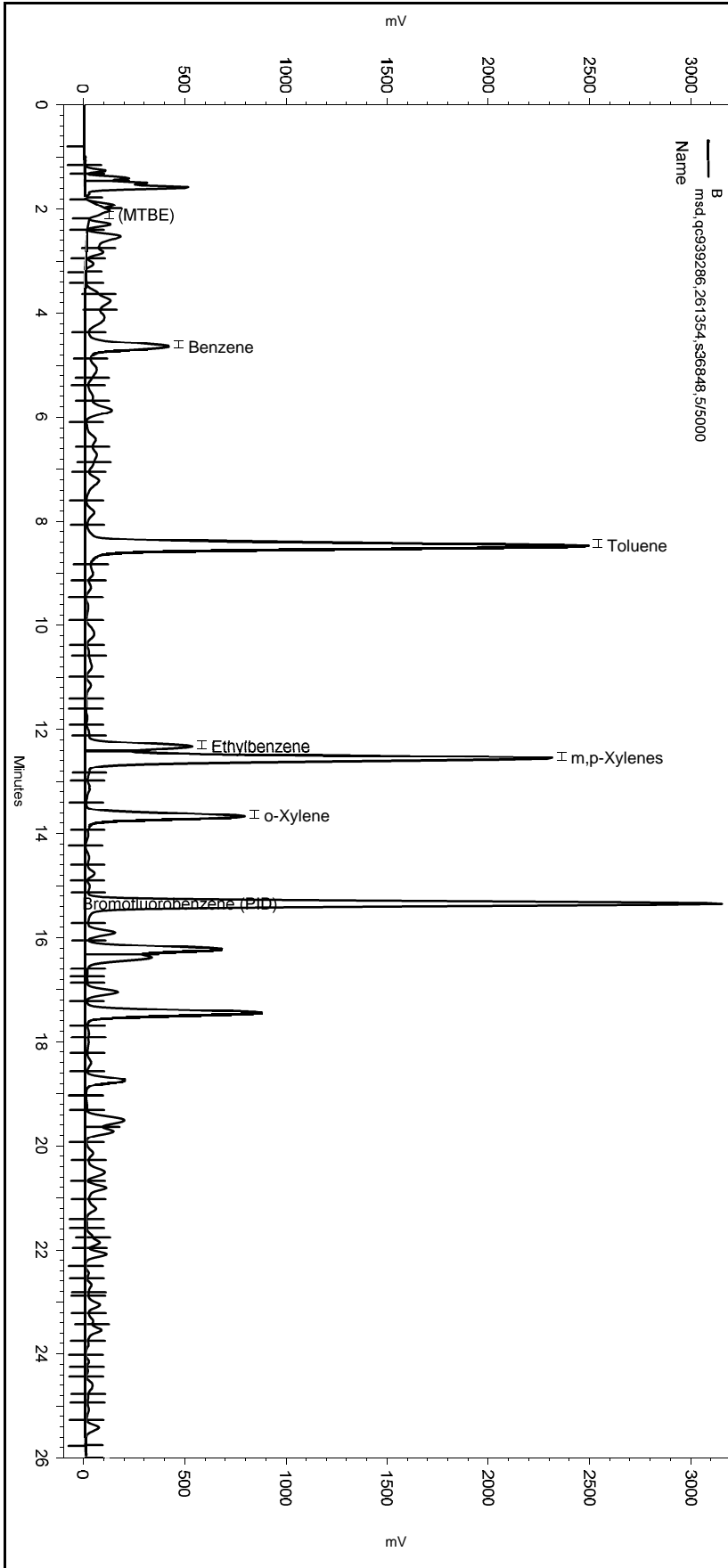
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-025_65DD.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: msd,qc939286,261354,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-025
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/13/2018 12:56:02 AM
 Analysis Date: 7/13/2018 1:24:45 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

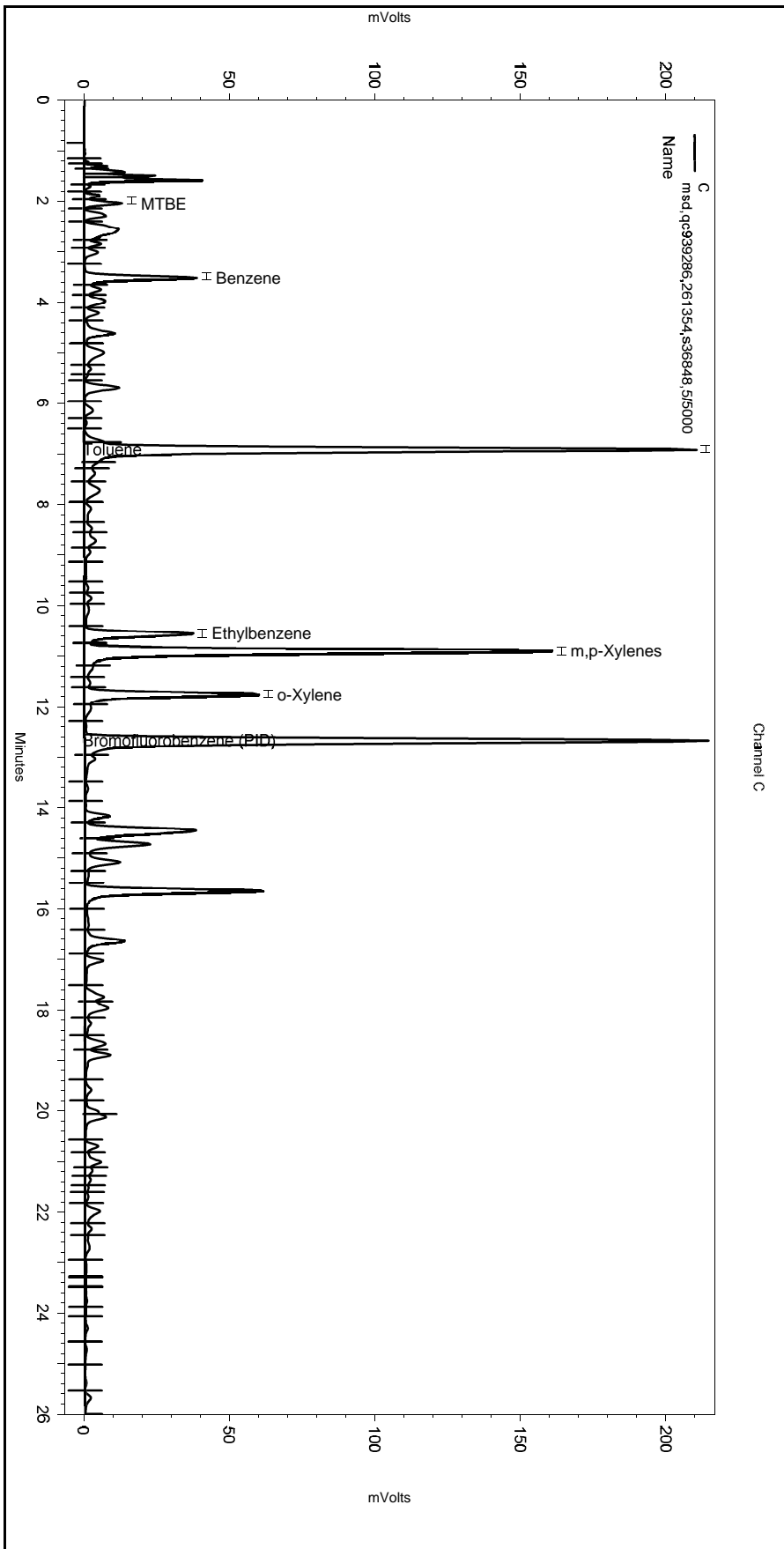
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-025_65DD.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: msd,qc939286,261354,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-025
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/13/2018 12:56:02 AM
 Analysis Date: 7/13/2018 1:24:45 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-025_65DD.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 301314 GCVOA Water: EPA 8021B

Inst : GC07
 Calnum : 328176634001
 Units : ng

Name : MBTXE_122
 Date : 02-MAY-2018 22:56
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	122_012	328176634012	BTXE_1	02-MAY-2018 22:56	S35889 (1000X), S36233 (5000X)
L2	122_013	328176634013	MBTXE_2	02-MAY-2018 23:34	S36294 (1250X), S36233 (5000X)
L3	122_014	328176634014	MBTXE_3	03-MAY-2018 00:12	S36294 (500X), S36233 (5000X)
L4	122_015	328176634015	MBTXE_4	03-MAY-2018 00:50	S36294 (125X), S36233 (5000X)
L5	122_016	328176634016	MBTXE_5	03-MAY-2018 01:28	S35887 (1000X), S36233 (5000X)
L6	122_017	328176634017	MBTXE_6	03-MAY-2018 02:07	S35887 (500X), S36233 (5000X)
L7	122_018	328176634018	MBTXE_7	03-MAY-2018 02:45	S35887 (250X), S36233 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Benzene	B	32661	28967	33865	33045	35530	36077	35842	AVRG		2.97E-5		33713	7	0.995	20	
Toluene	B	35850	27715	30543	29993	32299	32713	32236	AVRG		3.16E-5		31621	8	0.995	20	
Ethylbenzene	B	33834	24137	26923	25828	27555	27919	26928	AVRG		3.62E-5		27589	11	0.995	20	
m,p-Xylenes	B	45518	30761	32393	32140	33095	33659	33242	AVRG		2.91E-5		34401	15	0.995	20	
o-Xylene	B	31247	24358	27258	27337	28898	29291	28661	AVRG		3.55E-5		28150	8	0.995	20	
Bromofluorobenzene (PID)	B	25488	25061	24534	24811	25891	26143	26329	AVRG		3.93E-5		25465	3	0.995	20	
Benzene	C	1703.2	1706.2	2146.8	2247.1	2460.9	2462.7	2389.3	AVRG		4.63E-4		2159.5	15	0.995	20	
Toluene	C	1753.6	1588.0	1890.6	2016.8	2223.6	2231.7	2170.5	AVRG		5.05E-4		1982.1	13	0.995	20	
Ethylbenzene	C	1289.2	1252.0	1570.5	1706.8	1871.4	1900.9	1843.8	AVRG		6.12E-4		1633.5	17	0.995	20	
m,p-Xylenes	C	2560.8	1850.1	2117.0	2173.8	2306.7	2311.8	2234.5	AVRG		4.50E-4		2222.1	10	0.995	20	
o-Xylene	C	2204.0	1604.0	1849.9	1872.5	1984.5	1988.5	1930.9	AVRG		5.21E-4		1919.2	9	0.995	20	
Bromofluorobenzene (PID)	C	1775.8	1741.0	1701.0	1707.9	1749.9	1734.9	1719.7	AVRG		5.77E-4		1732.9	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Benzene	B	2.5000	-3	10.000	-14	25.000	0	100.00	-2	500.00	5	1000.0	7	2000.0	6
Toluene	B	2.5000	13	10.000	-12	25.000	-3	100.00	-5	500.00	2	1000.0	3	2000.0	2
Ethylbenzene	B	2.5000	23	10.000	-13	25.000	-2	100.00	-6	500.00	0	1000.0	1	2000.0	-2
m,p-Xylenes	B	2.5000	32	10.000	-11	25.000	-6	100.00	-7	500.00	-4	1000.0	-2	2000.0	-3
o-Xylene	B	2.5000	11	10.000	-13	25.000	-3	100.00	-3	500.00	3	1000.0	4	2000.0	2
Bromofluorobenzene (PID)	B	900.00	0	900.00	-2	900.00	-4	900.00	-3	900.00	2	900.00	3	900.00	3
Benzene	C	2.5000	-21	10.000	-21	25.000	-1	100.00	4	500.00	14	1000.0	14	2000.0	11
Toluene	C	2.5000	-12	10.000	-20	25.000	-5	100.00	2	500.00	12	1000.0	13	2000.0	10
Ethylbenzene	C	2.5000	-21	10.000	-23	25.000	-4	100.00	4	500.00	15	1000.0	16	2000.0	13
m,p-Xylenes	C	2.5000	15	10.000	-17	25.000	-5	100.00	-2	500.00	4	1000.0	4	2000.0	1
o-Xylene	C	2.5000	15	10.000	-16	25.000	-4	100.00	-2	500.00	3	1000.0	4	2000.0	1
Bromofluorobenzene (PID)	C	900.00	2	900.00	0	900.00	-2	900.00	-1	900.00	1	900.00	0	900.00	-1

Analyst: PAW

Date: 05/04/18

Reviewer: EAH

Date: 05/04/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301314 GCVOA Water
EPA 8021B

Inst : GC07
Calnum : 328176634001

Name : MBTXE_122
Cal Date : 02-MAY-2018

ICV 328176634020 (122_020 03-MAY-2018) stds: S36861 (1000X), S36233 (5000X)

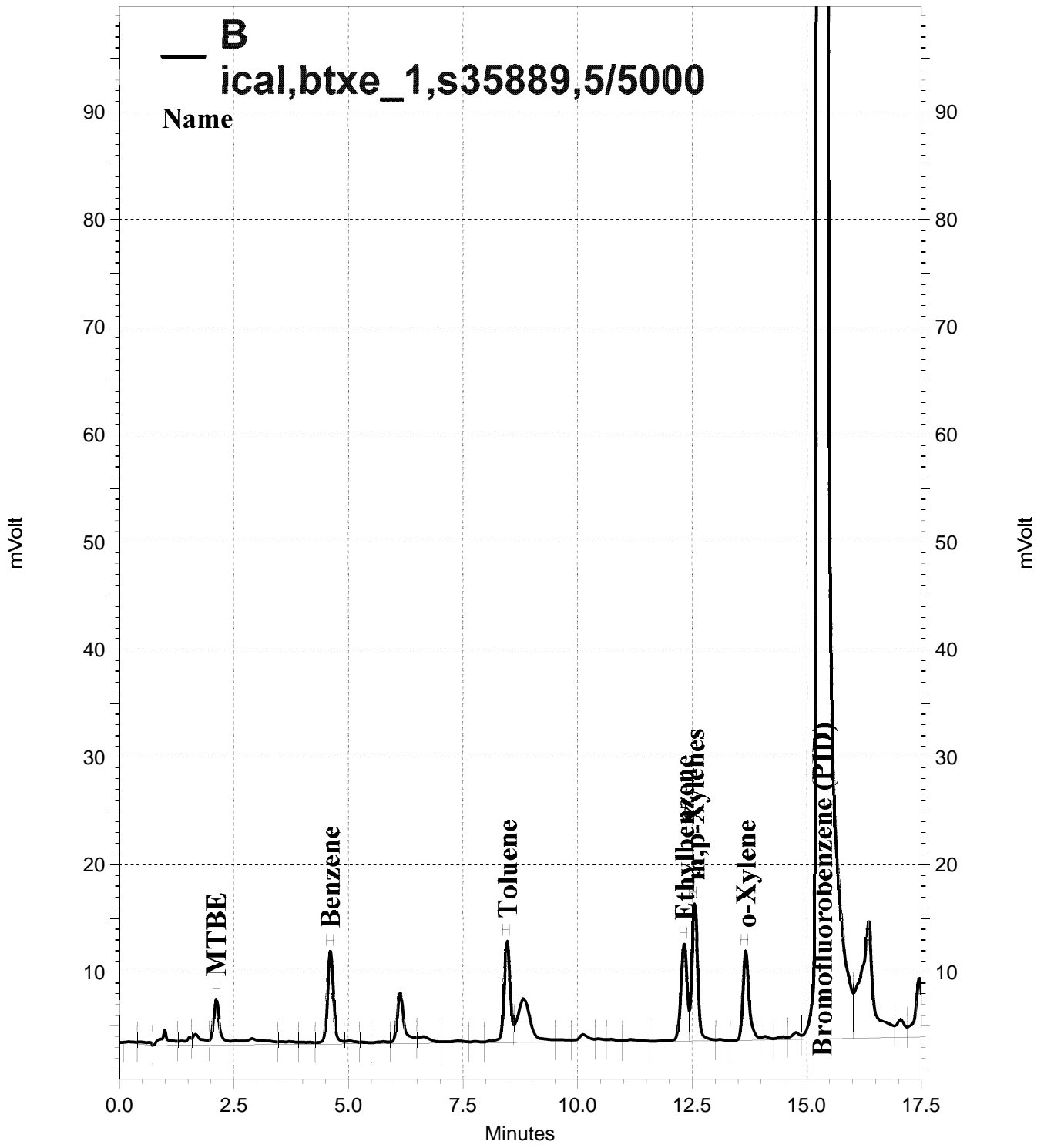
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	100.0	95.41	ng	-5	15	
Toluene	B	100.0	92.97	ng	-7	15	
Ethylbenzene	B	100.0	92.82	ng	-7	15	
m,p-Xylenes	B	200.0	181.8	ng	-9	15	
o-Xylene	B	100.0	98.35	ng	-2	15	
Benzene	C	100.0	104.6	ng	5	15	
Toluene	C	100.0	102.9	ng	3	15	
Ethylbenzene	C	100.0	108.3	ng	8	15	
m,p-Xylenes	C	200.0	196.8	ng	-2	15	
o-Xylene	C	100.0	101.6	ng	2	15	

Analyst: PAW

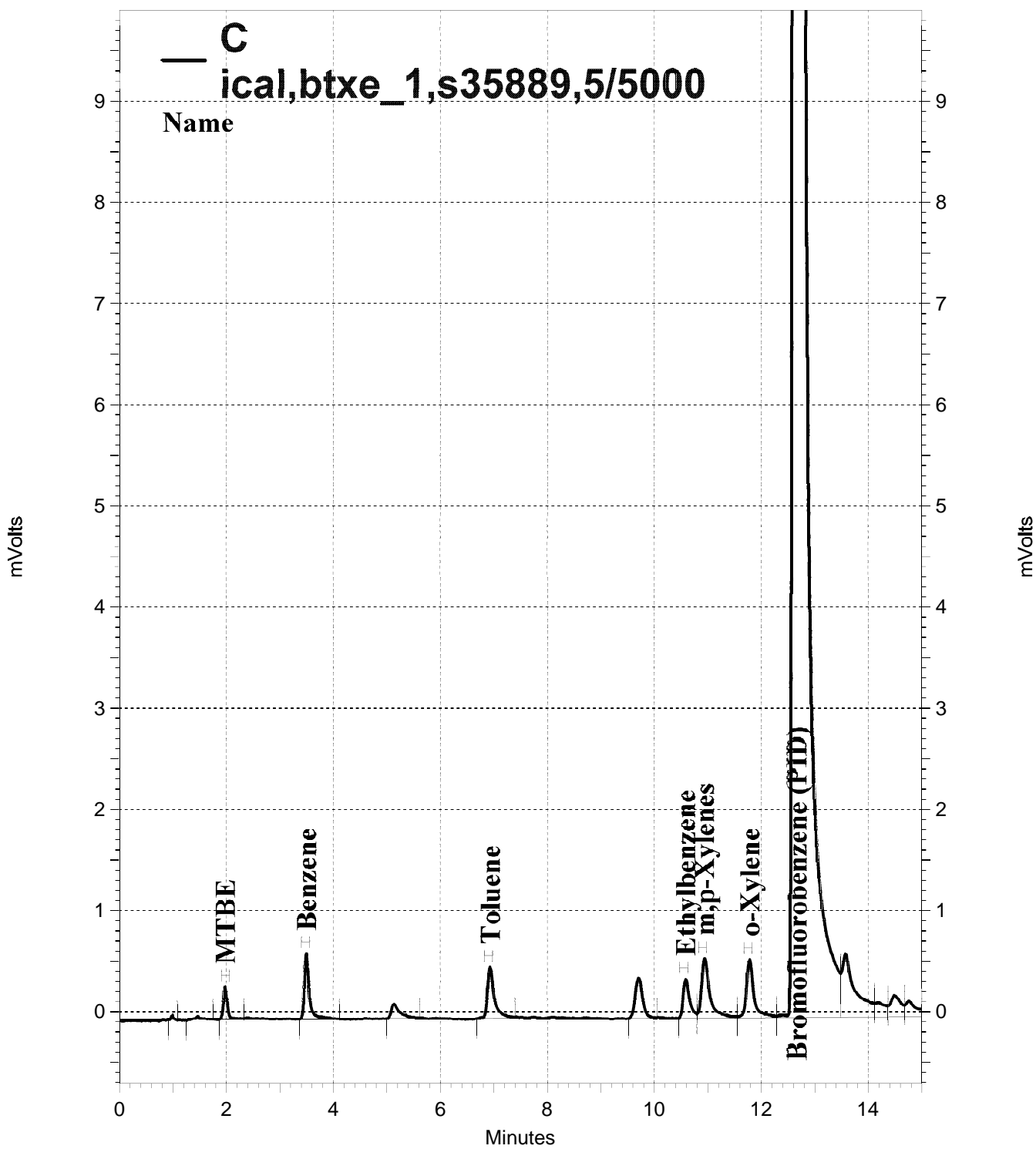
Date: 05/04/18

Reviewer: EAH

Date: 05/04/18



\\Lims\gdrive\ezchrom\Projects\GC07\Data\122-012, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-012, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,btxe_1,s35889,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-012
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/2/2018 10:56:04 PM
 Analysis Date: 5/4/2018 11:08:09 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1915224	0.000 CAL
GAS:6-10			216010	0.000 CAL
GAS:6-12			326274	0.000 CAL
GAS:7-12			309853	0.000 CAL
JP4:7-12			309853	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.117	40864	0.000 CAL
Benzene	4.600	4.600	81653	2.500 CAL
Toluene	8.467	8.433	89625	2.500 CAL
Ethylbenzene	12.333	12.300	84584	2.500 CAL
m,p-Xylenes	12.550	12.517	113796	2.500 CAL
o-Xylene	13.667	13.633	78118	2.500 CAL
Bromofluorobenzene (PID)	15.333	15.317	22938854	900.000 CAL

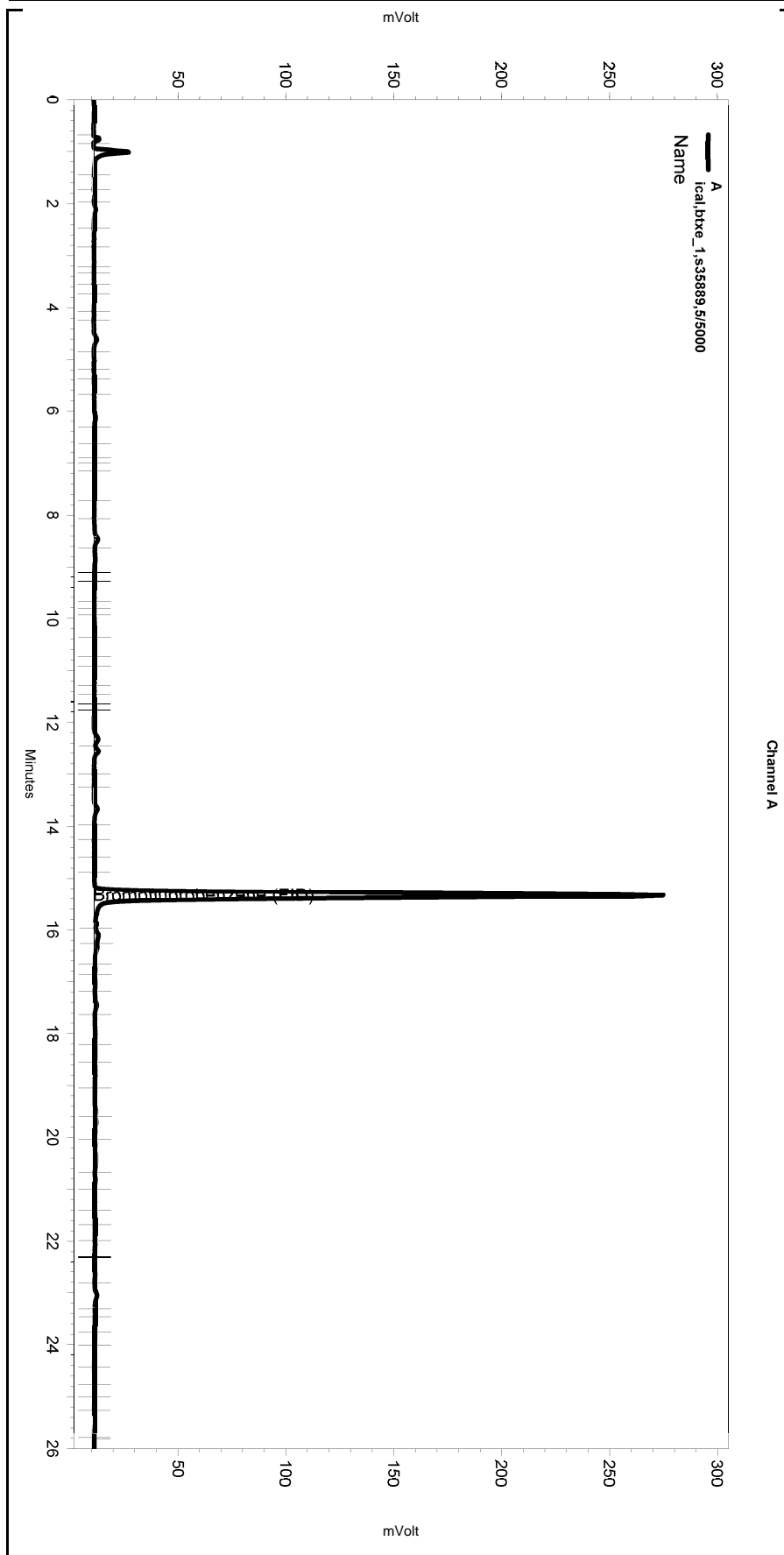
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	1635	0.000 CAL
Benzene	3.500	3.483	4258	2.500 CAL
Toluene	6.933	6.900	4384	2.500 CAL
Ethylbenzene	10.583	10.549	3223	2.500 CAL
m,p-Xylenes	10.933	10.899	6402	2.500 CAL
o-Xylene	11.783	11.749	5510	2.500 CAL
Bromofluorobenzene (PID)	12.666	12.649	1598186	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,btxe_1,s35889,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-012
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/2/2018 10:56:04 PM
 Analysis Date: 5/4/2018 11:08:09 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

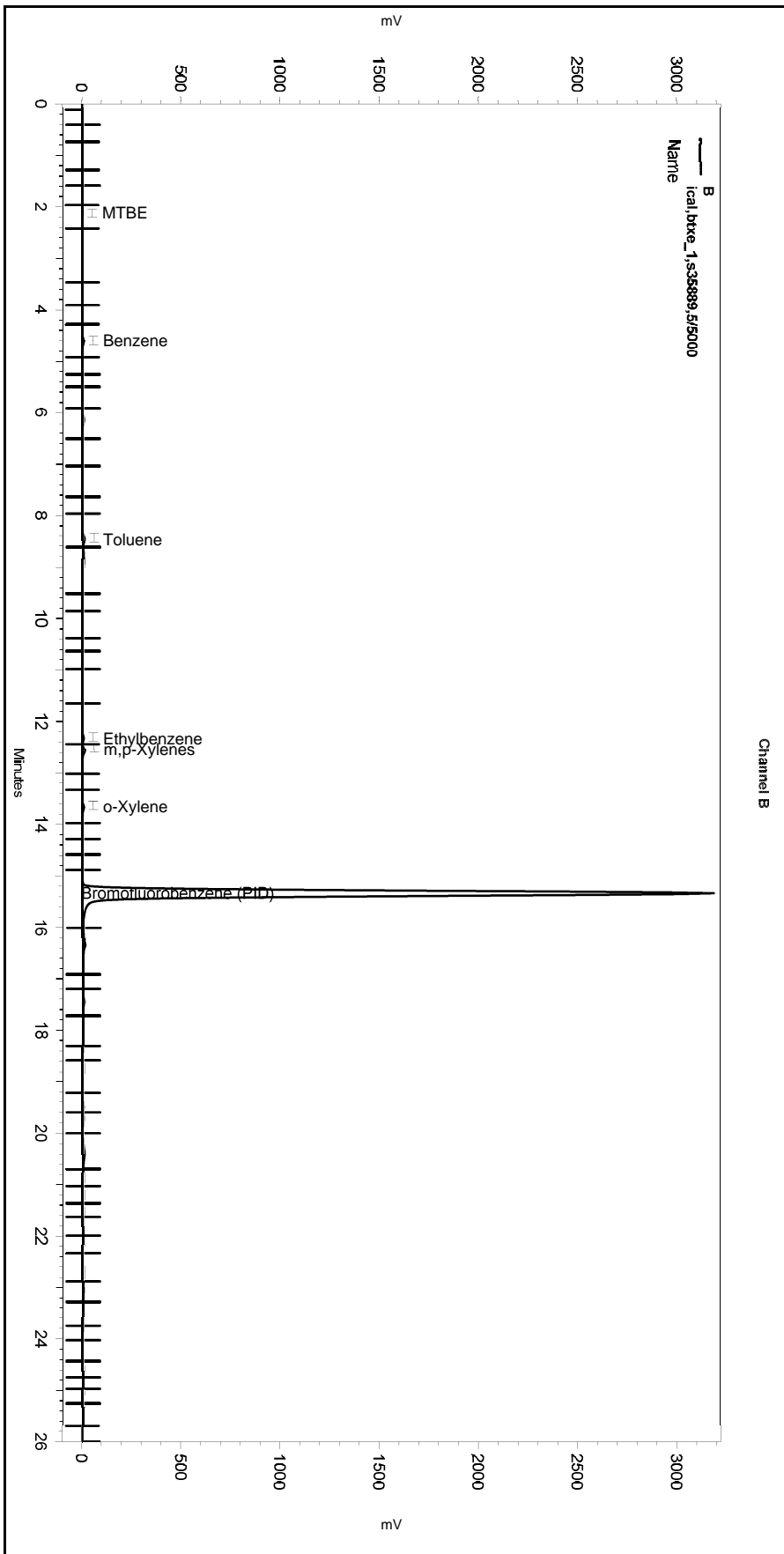
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,btxe_1,s35889,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-012
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/2/2018 10:56:04 PM
 Analysis Date: 5/4/2018 11:08:09 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

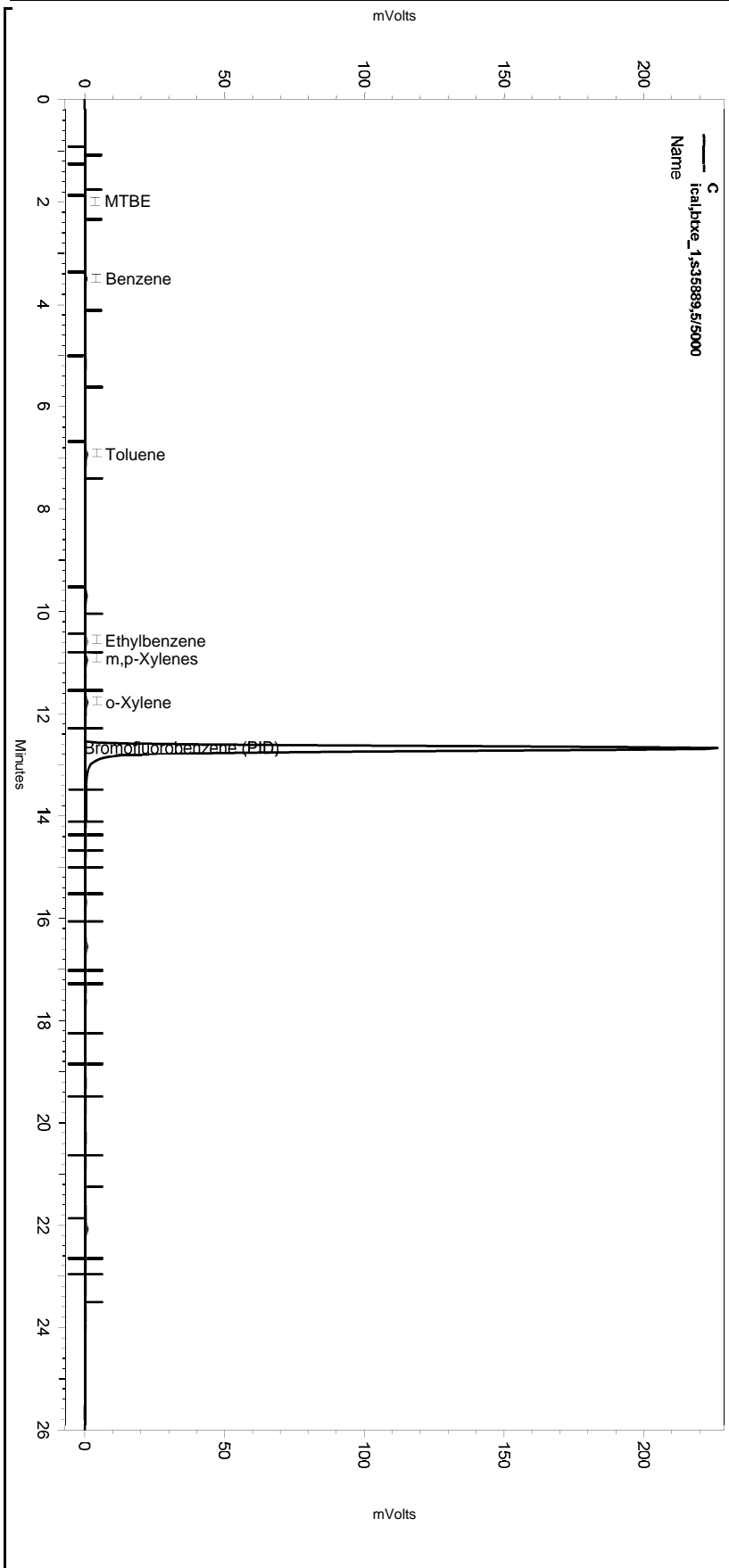
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,btxe_1,s35889,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-012
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/2/2018 10:56:04 PM
 Analysis Date: 5/4/2018 11:08:09 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

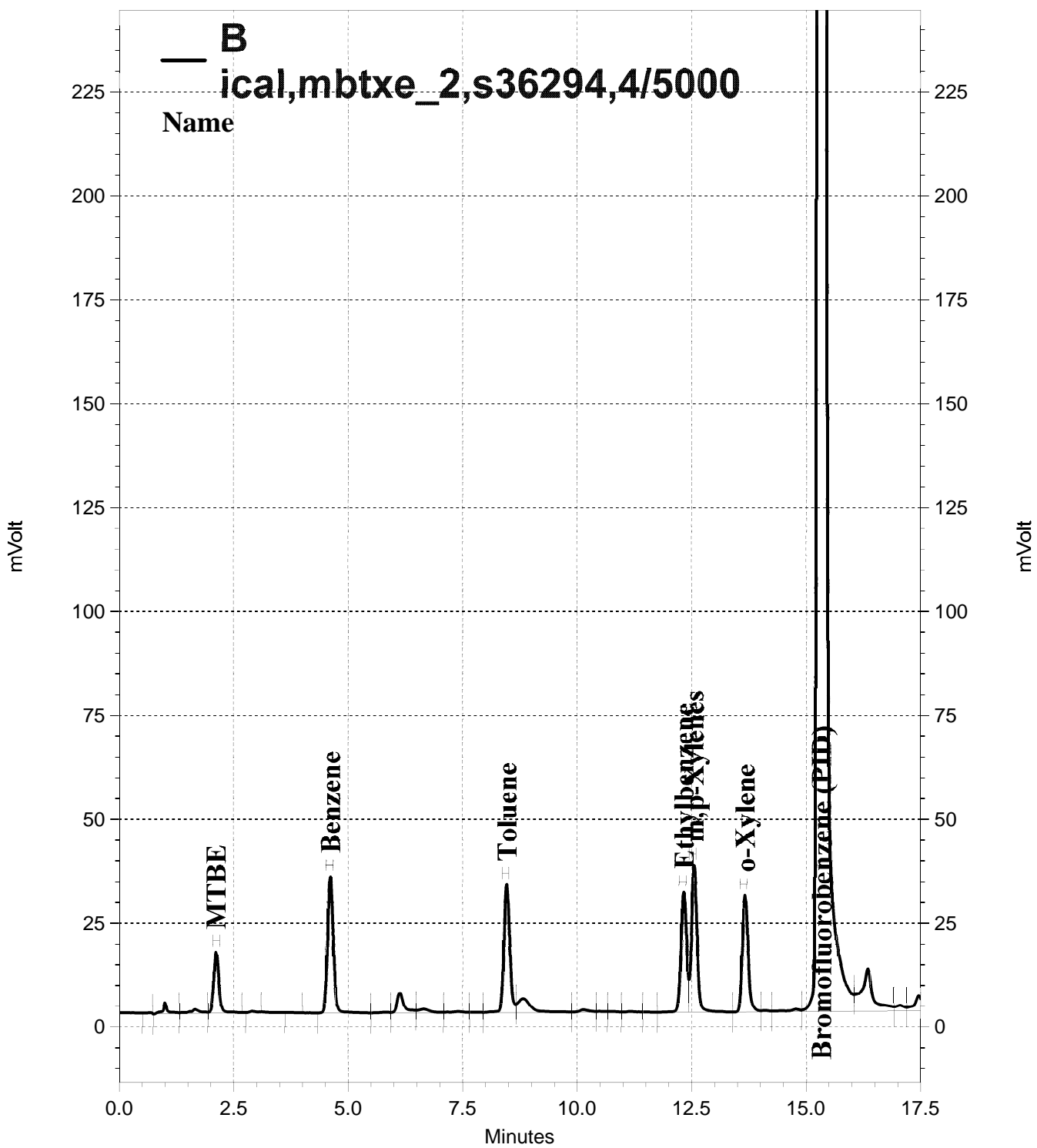
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

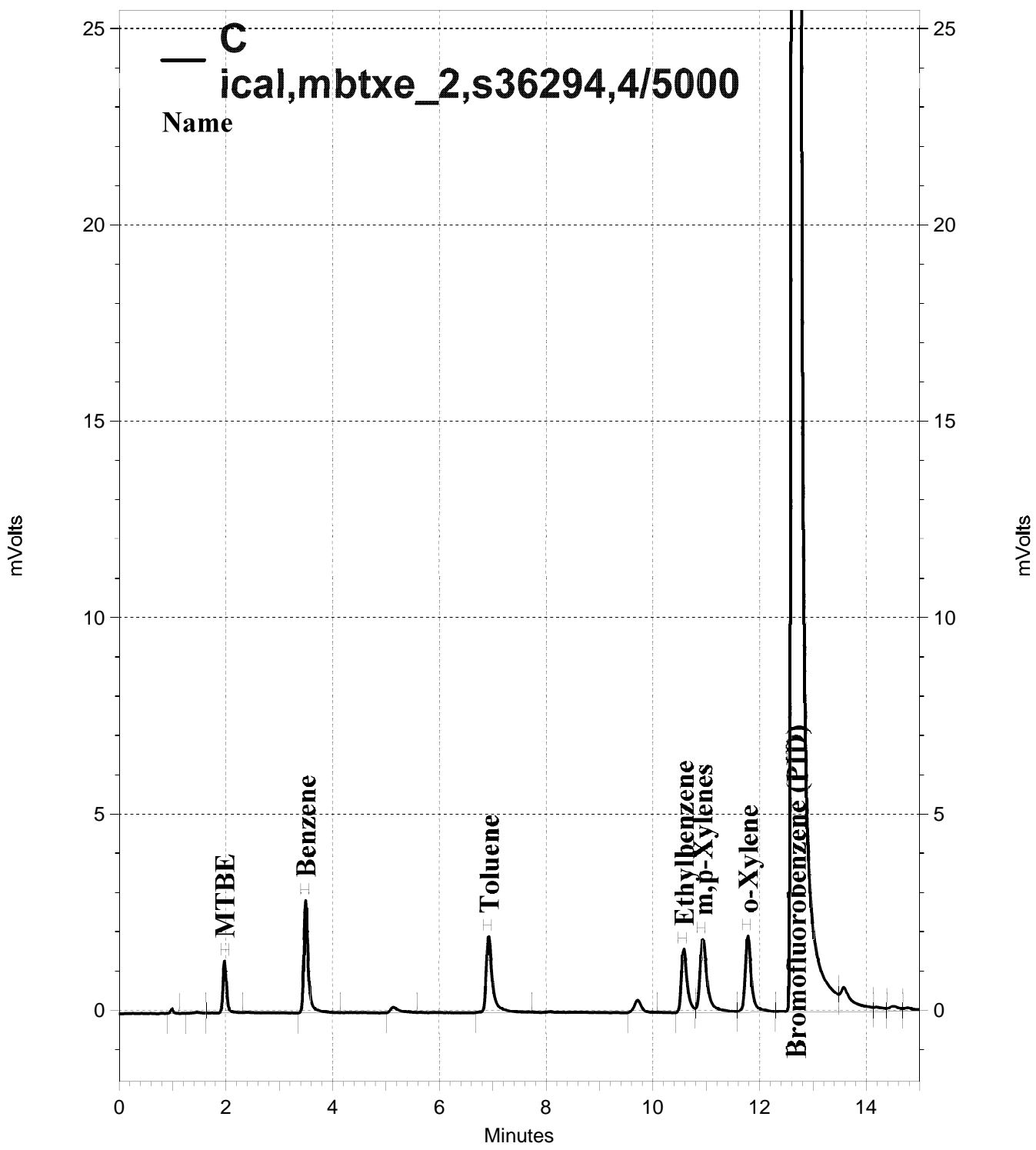
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\122-013, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\122-013, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
Sample Name: ical,mbtxe_2,s36294,4/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-013
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
Run Date: 5/2/2018 11:34:17 PM
Analysis Date: 5/4/2018 11:08:20 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1883073	0.000 CAL
GAS:6-10			369320	0.000 CAL
GAS:6-12			468817	0.000 CAL
GAS:7-12			452442	0.000 CAL
JP4:7-12			452442	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.117	115933	10.000 CAL
Benzene	4.617	4.600	289671	10.000 CAL
Toluene	8.467	8.433	277151	10.000 CAL
Ethylbenzene	12.333	12.300	241374	10.000 CAL
m,p-Xylenes	12.550	12.517	307609	10.000 CAL
o-Xylene	13.667	13.633	243583	10.000 CAL
Bromofluorobenzene (PID)	15.333	15.317	22554913	900.000 CAL

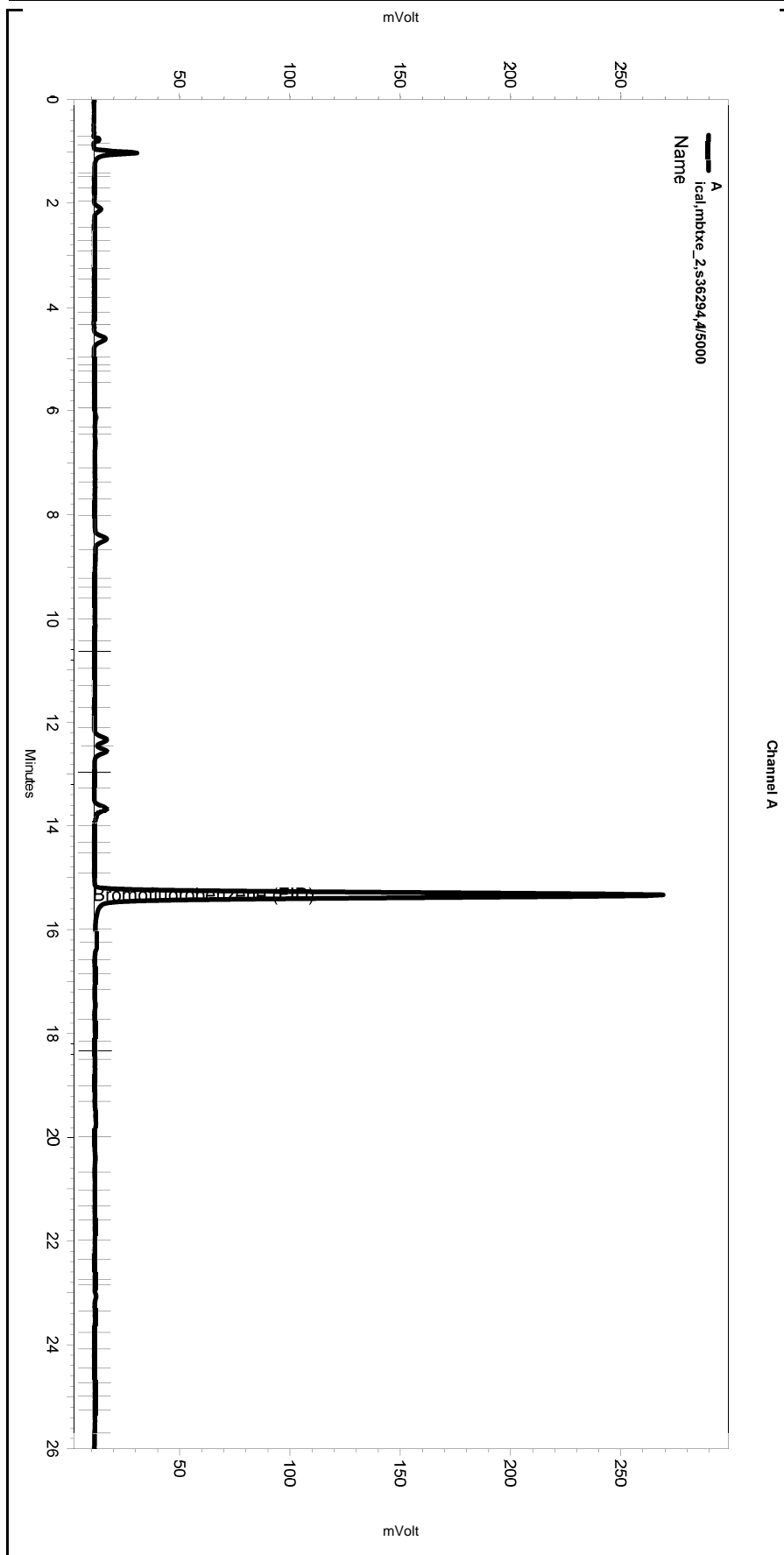
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	6364	10.000 CAL
Benzene	3.500	3.483	17062	10.000 CAL
Toluene	6.933	6.900	15880	10.000 CAL
Ethylbenzene	10.583	10.549	12520	10.000 CAL
m,p-Xylenes	10.933	10.899	18501	10.000 CAL
o-Xylene	11.783	11.749	16040	10.000 CAL
Bromofluorobenzene (PID)	12.683	12.649	1566858	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtxe_2,s36294,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-013
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/2/2018 11:34:17 PM
 Analysis Date: 5/4/2018 11:08:20 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

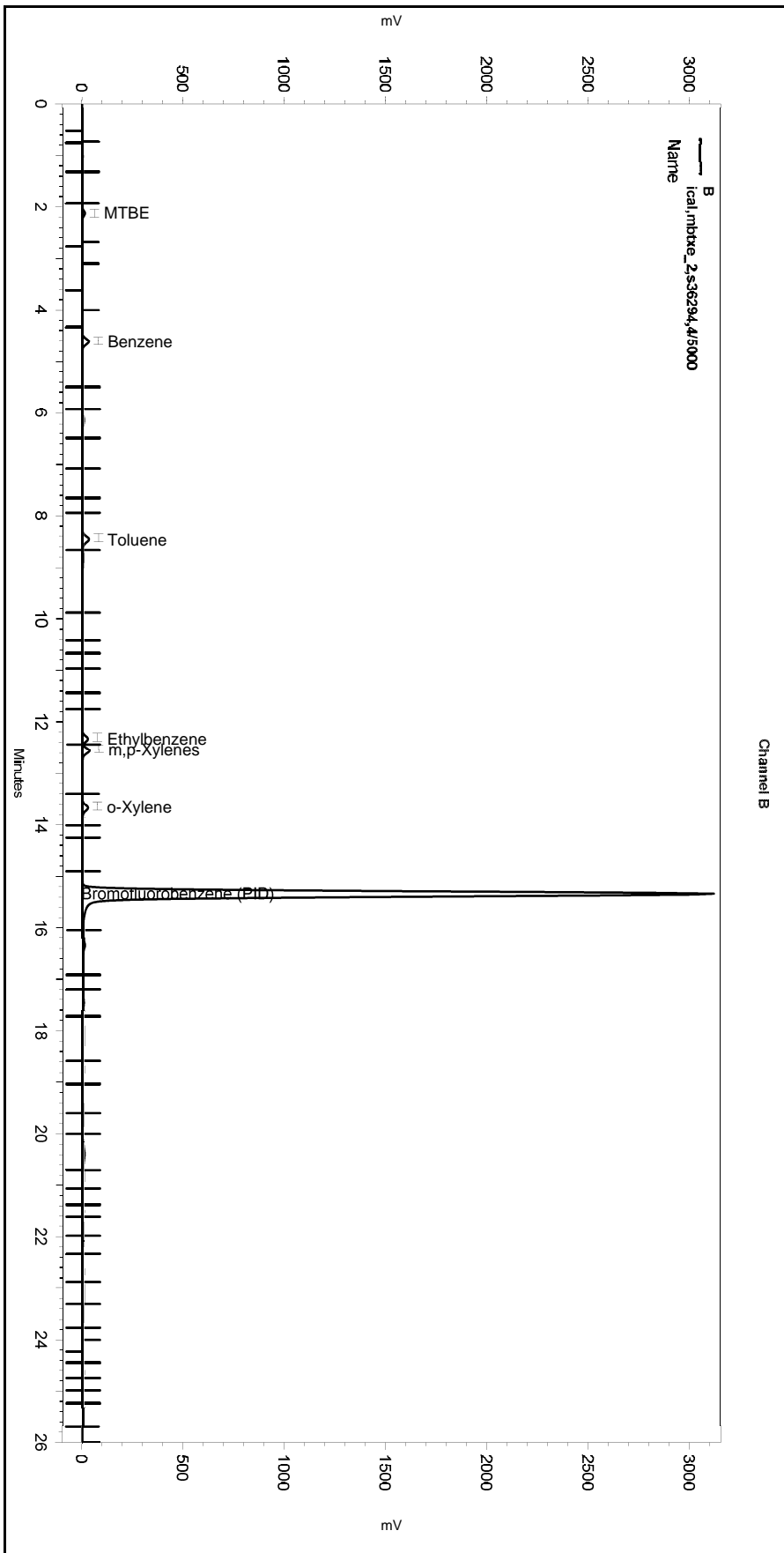
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtXe_2,s36294,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-013
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE122.MET

Software Version 3.1.7
 Run Date: 5/2/2018 11:34:17 PM
 Analysis Date: 5/4/2018 11:08:20 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---> B <-----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

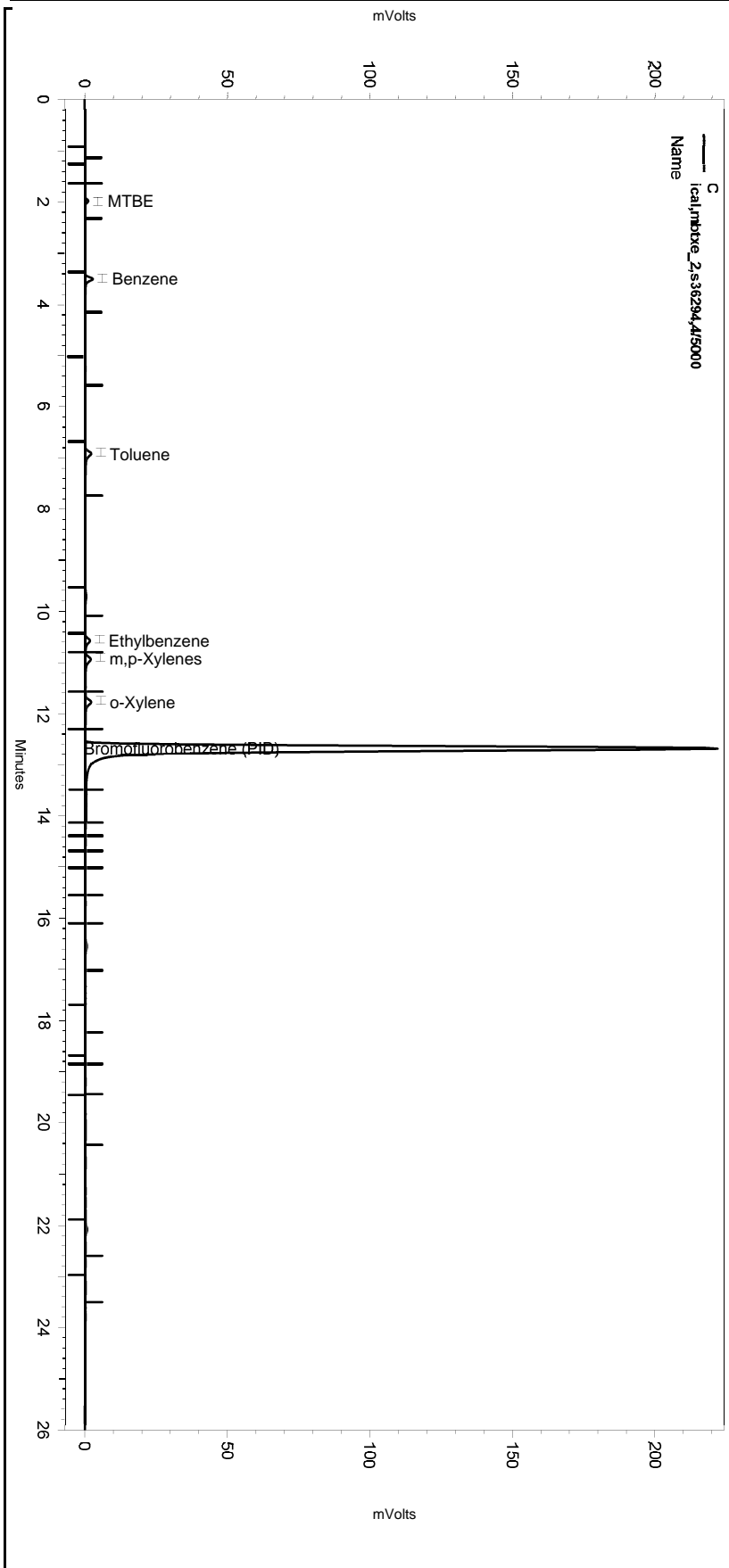
=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtxe_2,s36294,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-013
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/2/2018 11:34:17 PM
 Analysis Date: 5/4/2018 11:08:20 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

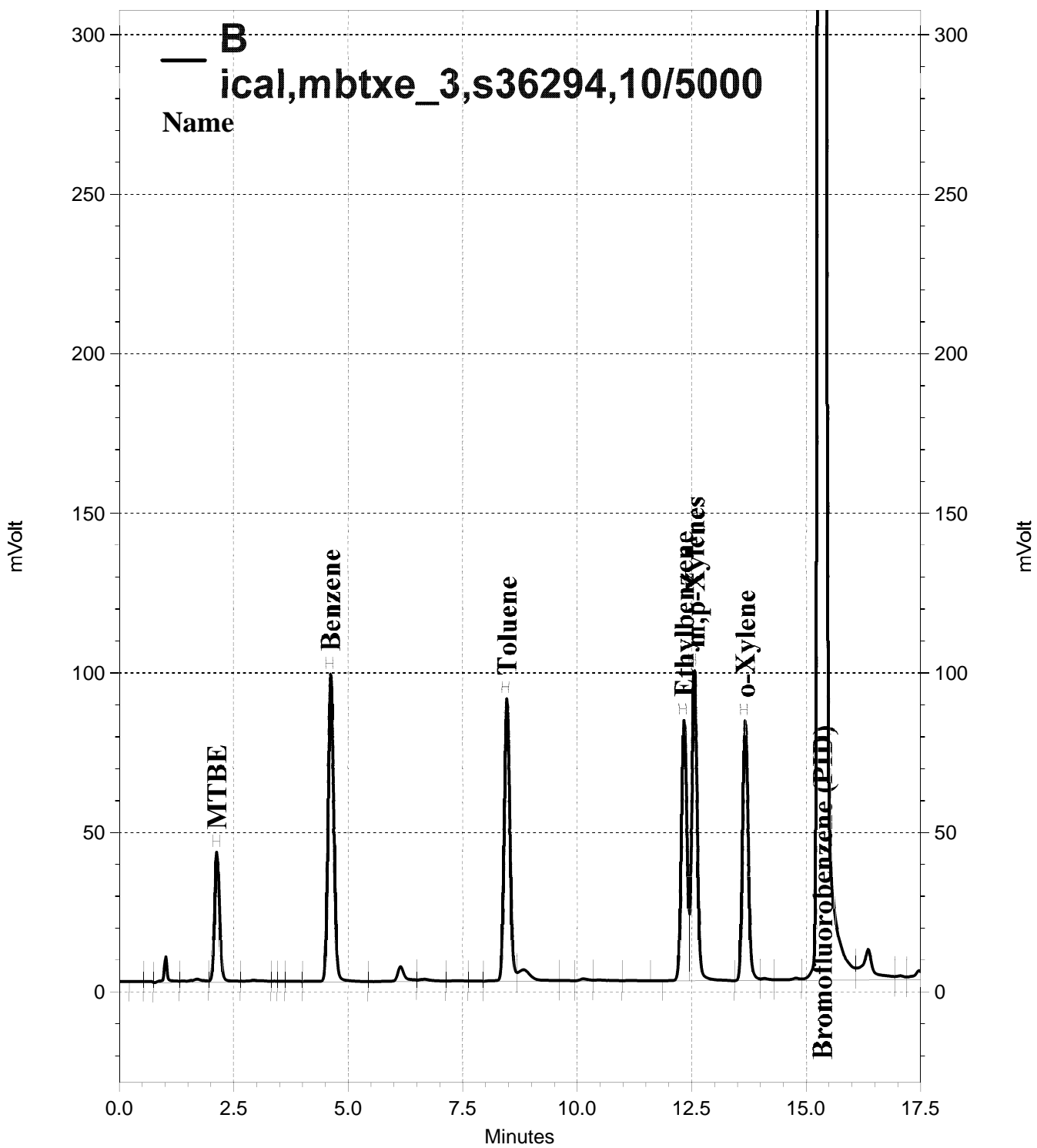
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

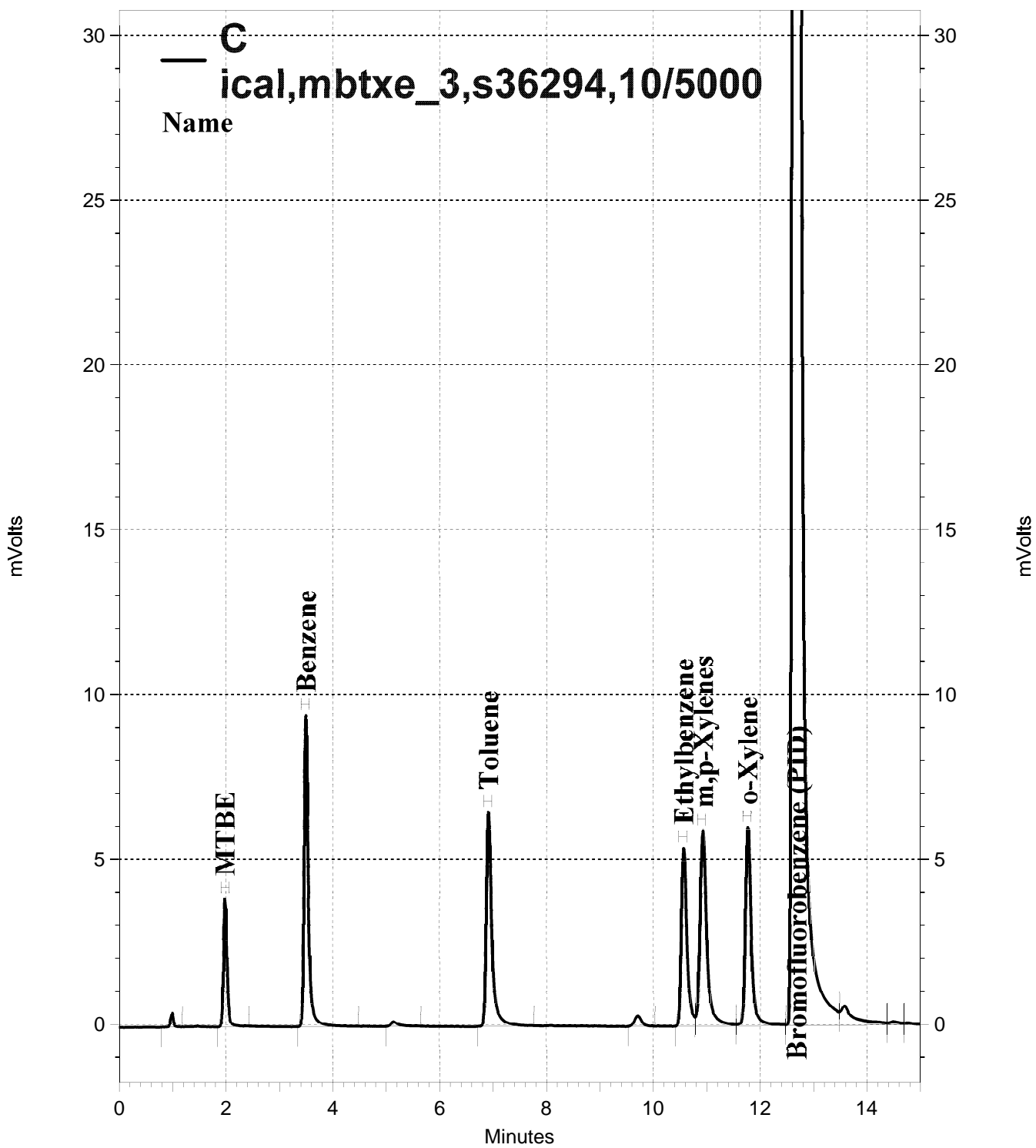
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\122-014, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-014, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
Sample Name: ical,mbtixe_3,s36294,10/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-014
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtixe122.met

Software Version 3.1.7
Run Date: 5/3/2018 12:12:23 AM
Analysis Date: 5/4/2018 11:08:32 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1827433	0.000 CAL
GAS:6-10			738825	0.000 CAL
GAS:6-12			827532	0.000 CAL
GAS:7-12			815056	0.000 CAL
JP4:7-12			815056	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.117	322072	25.000 CAL
Benzene	4.617	4.600	846631	25.000 CAL
Toluene	8.467	8.433	763574	25.000 CAL
Ethylbenzene	12.333	12.300	673066	25.000 CAL
m,p-Xylenes	12.567	12.517	809832	25.000 CAL
o-Xylene	13.667	13.633	681446	25.000 CAL
Bromofluorobenzene (PID)	15.350	15.317	22080832	900.000 CAL

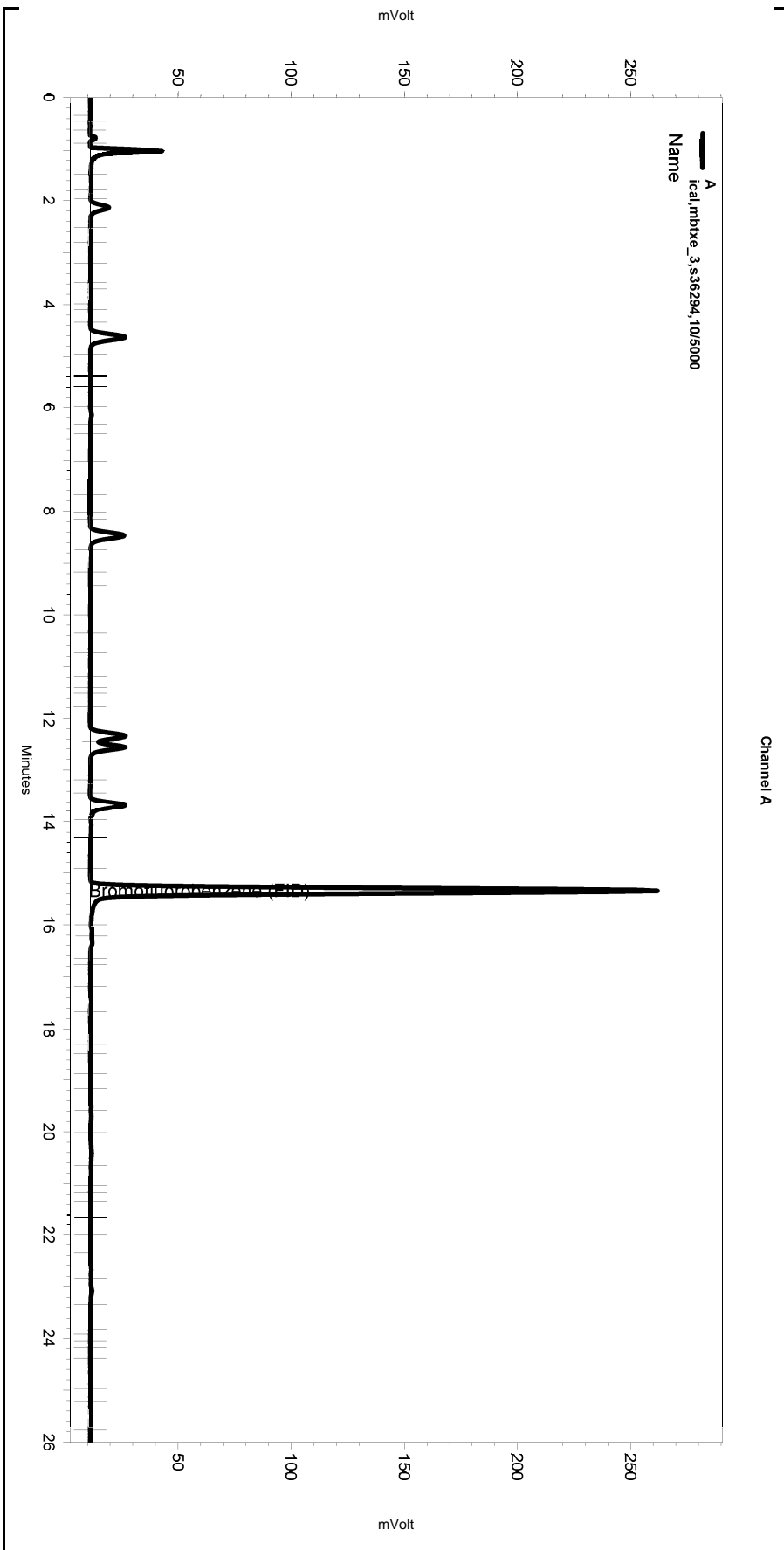
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	18537	25.000 CAL
Benzene	3.500	3.483	53669	25.000 CAL
Toluene	6.916	6.900	47266	25.000 CAL
Ethylbenzene	10.566	10.549	39263	25.000 CAL
m,p-Xylenes	10.933	10.899	52924	25.000 CAL
o-Xylene	11.766	11.749	46247	25.000 CAL
Bromofluorobenzene (PID)	12.683	12.649	1530863	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtixe_3,s36294,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-014
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtixe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 12:12:23 AM
 Analysis Date: 5/4/2018 11:08:32 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < A >

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

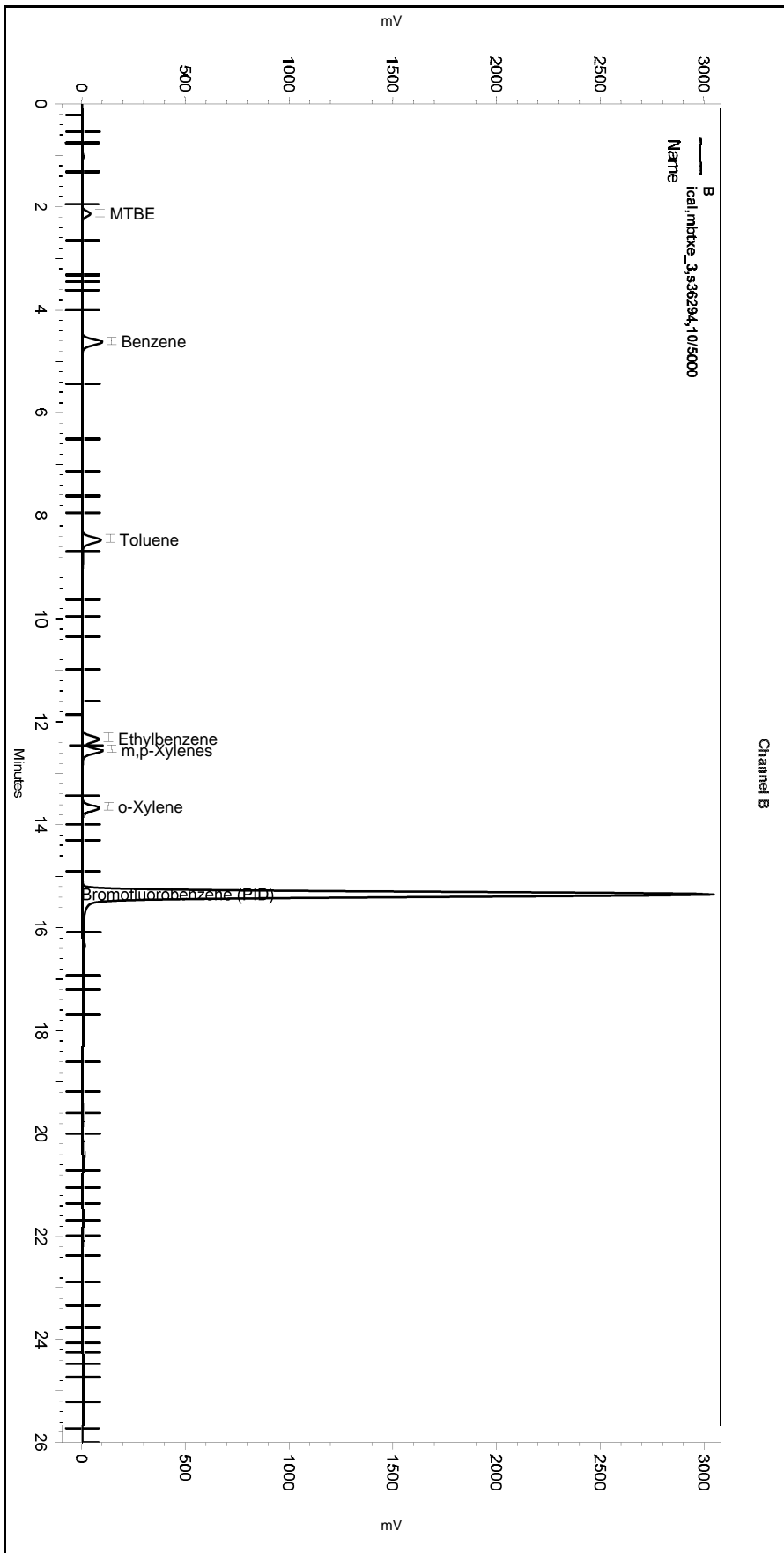
Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtxe_3,s36294,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-014
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE122.met

Software Version 3.1.7
 Run Date: 5/3/2018 12:12:23 AM
 Analysis Date: 5/4/2018 11:08:32 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---> B <-----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

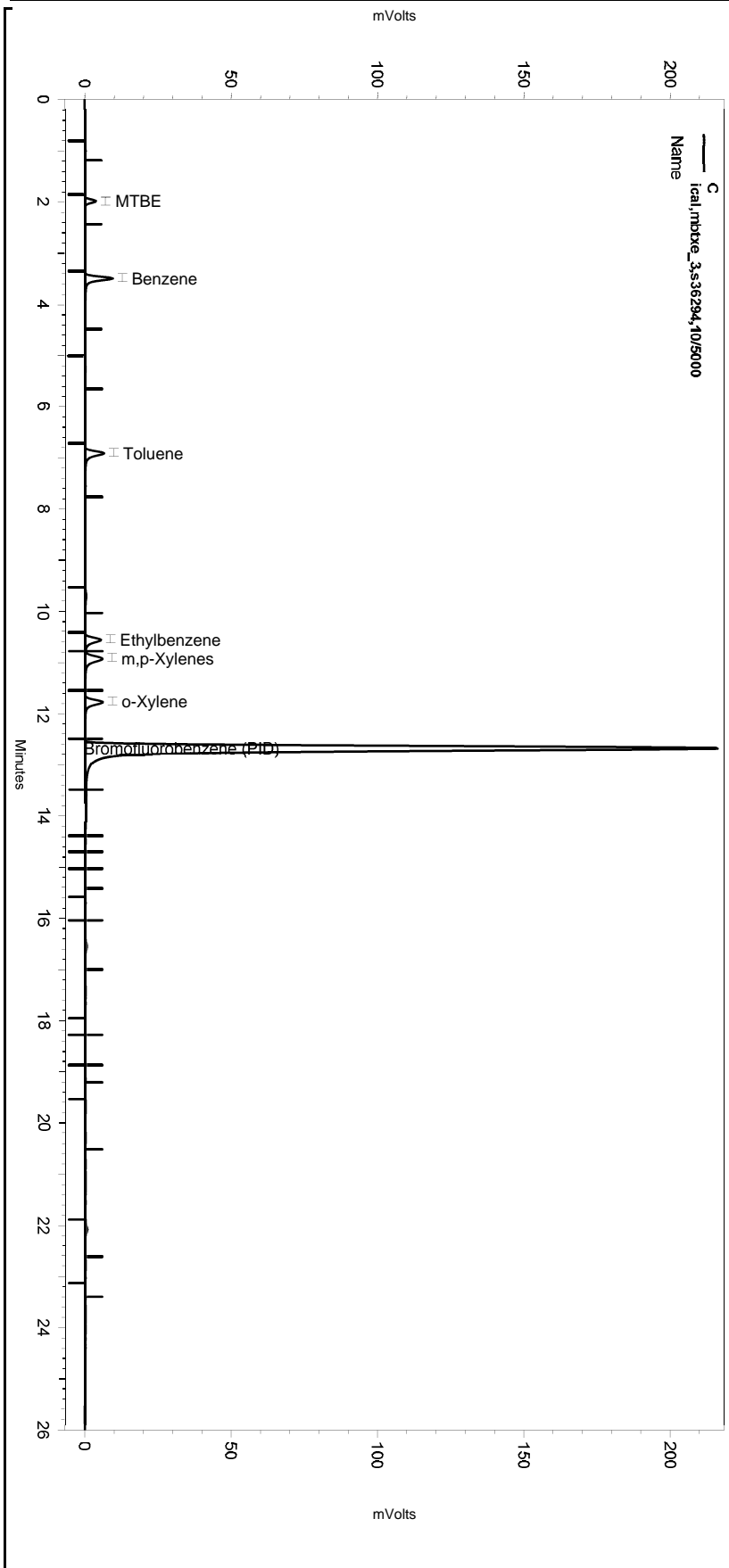
=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtxe_3,s36294,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-014
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 12:12:23 AM
 Analysis Date: 5/4/2018 11:08:32 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

---< General Method Parameters >---

No items selected for this section

---< C >---

No items selected for this section

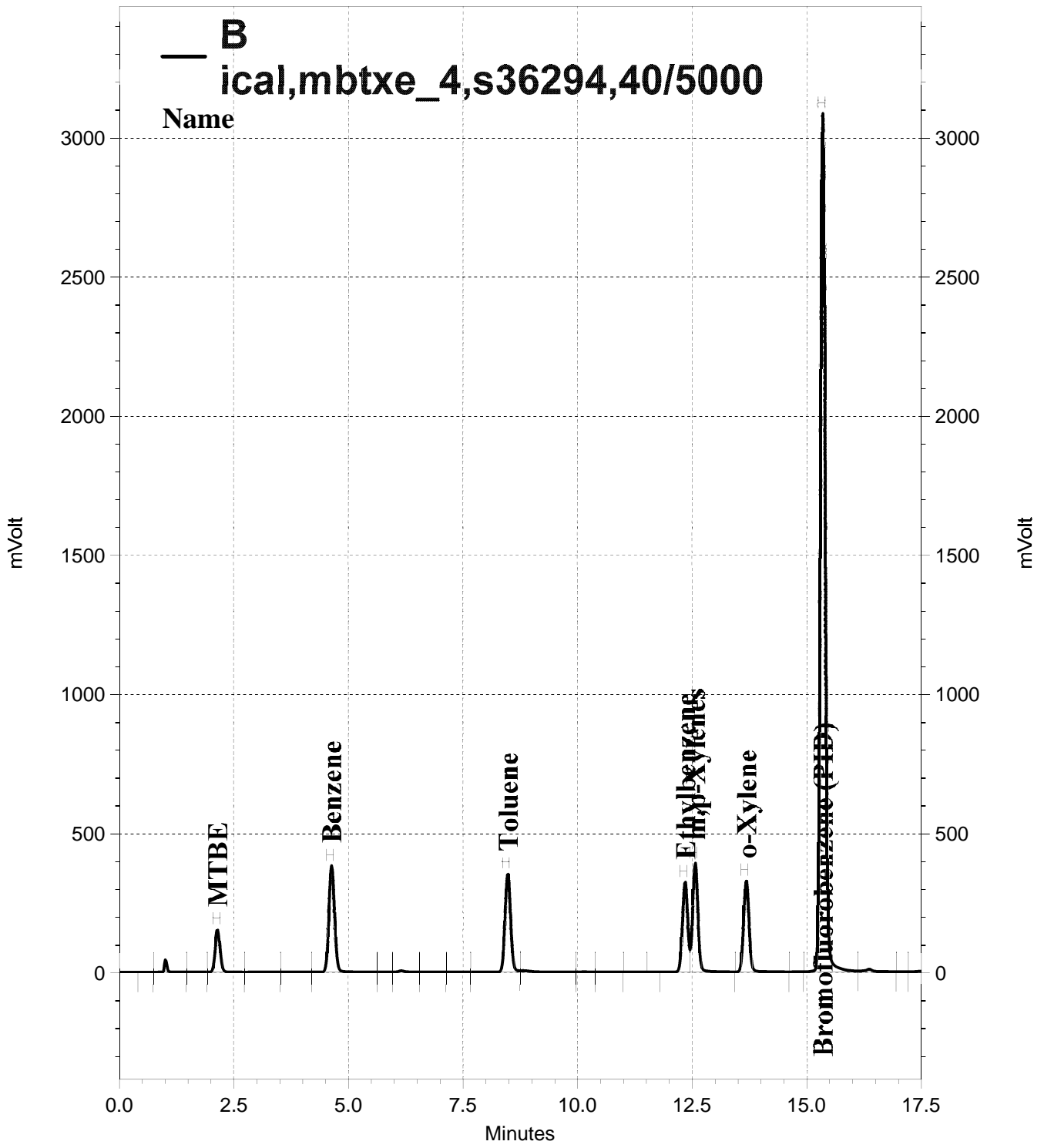
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

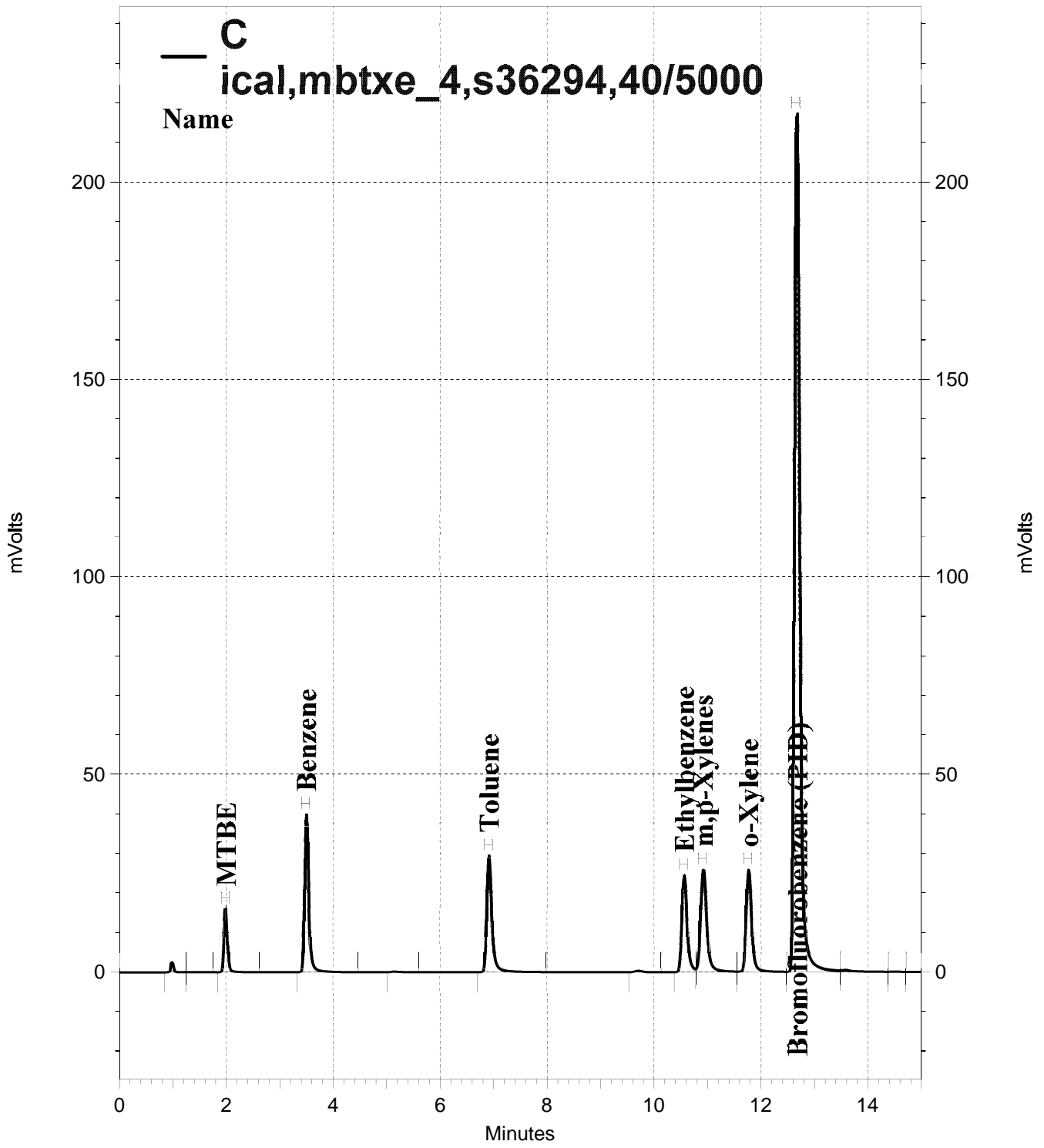
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\122-015, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-015, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtixe_4,s36294,40/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-015
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 12:50:37 AM
 Analysis Date: 5/4/2018 11:08:42 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1832208	0.000 CAL
GAS:6-10			2593710	0.000 CAL
GAS:6-12			2675473	0.000 CAL
GAS:7-12			2665454	0.000 CAL
JP4:7-12			2665454	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.150	2.117	1150152	100.000 CAL
Benzene	4.633	4.600	3304451	100.000 CAL
Toluene	8.483	8.433	2999267	100.000 CAL
Ethylbenzene	12.350	12.300	2582819	100.000 CAL
m,p-Xylenes	12.567	12.517	3213965	100.000 CAL
o-Xylene	13.683	13.633	2733671	100.000 CAL
Bromofluorobenzene (PID)	15.350	15.317	22329540	900.000 CAL

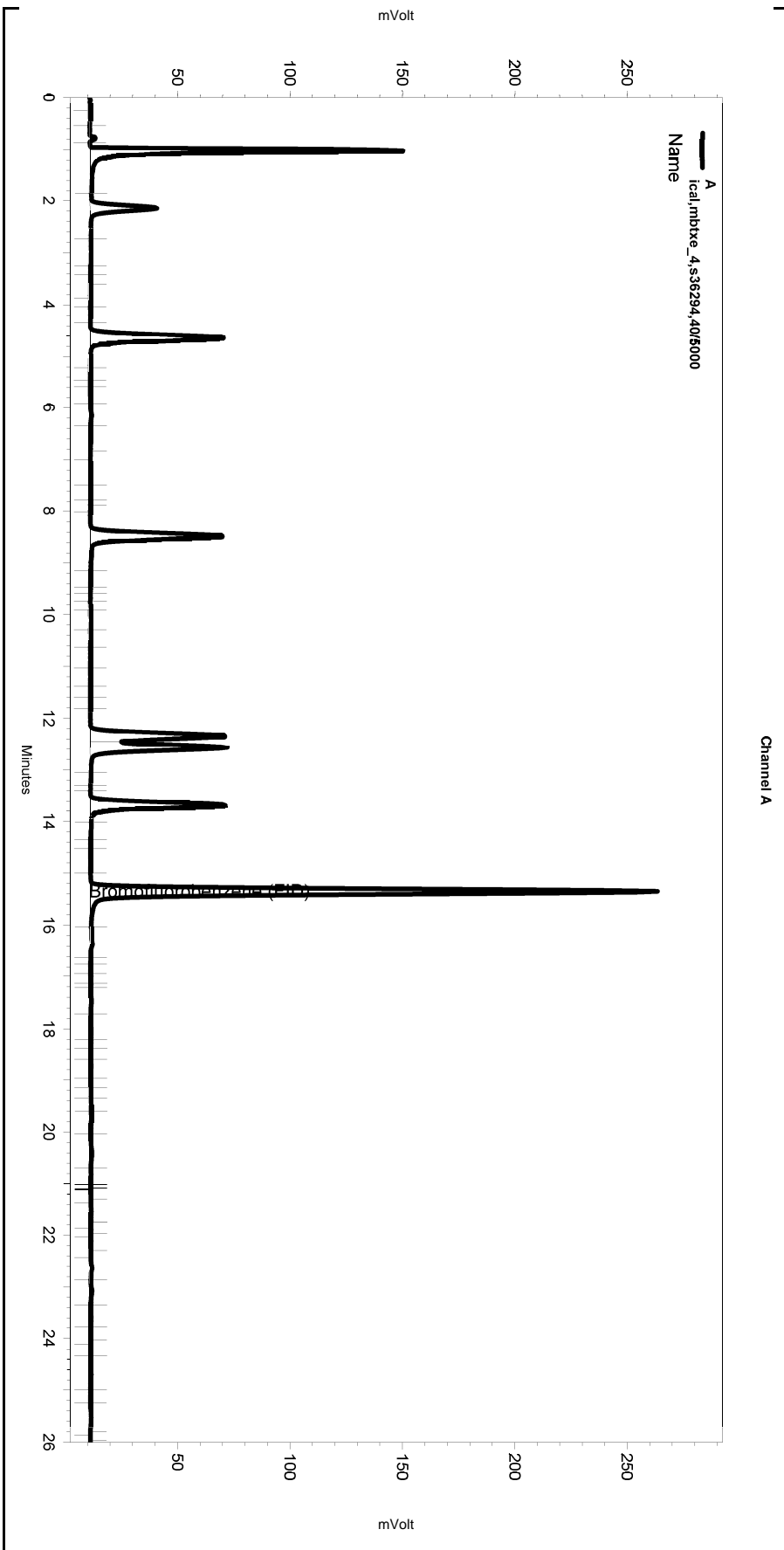
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.000	1.983	75012	100.000 CAL
Benzene	3.500	3.483	224710	100.000 CAL
Toluene	6.916	6.900	201677	100.000 CAL
Ethylbenzene	10.566	10.549	170675	100.000 CAL
m,p-Xylenes	10.916	10.899	217383	100.000 CAL
o-Xylene	11.766	11.749	187246	100.000 CAL
Bromofluorobenzene (PID)	12.683	12.649	1537067	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtxe_4,s36294,40/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-015
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 12:50:37 AM
 Analysis Date: 5/4/2018 11:08:42 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

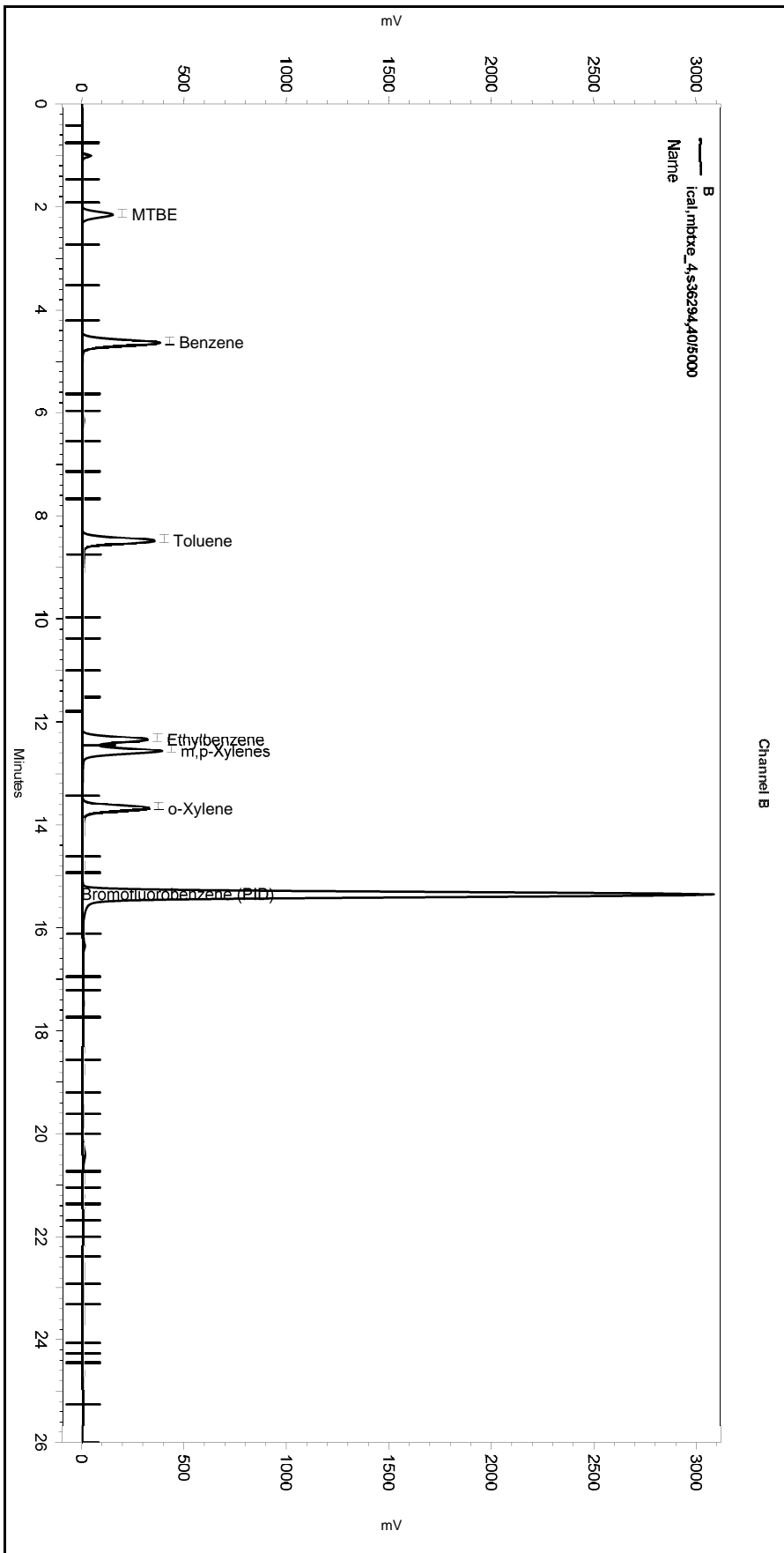
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbt_xe_4,s36294,40/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-015
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbt_xe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 12:50:37 AM
 Analysis Date: 5/4/2018 11:08:42 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity		0 26	100

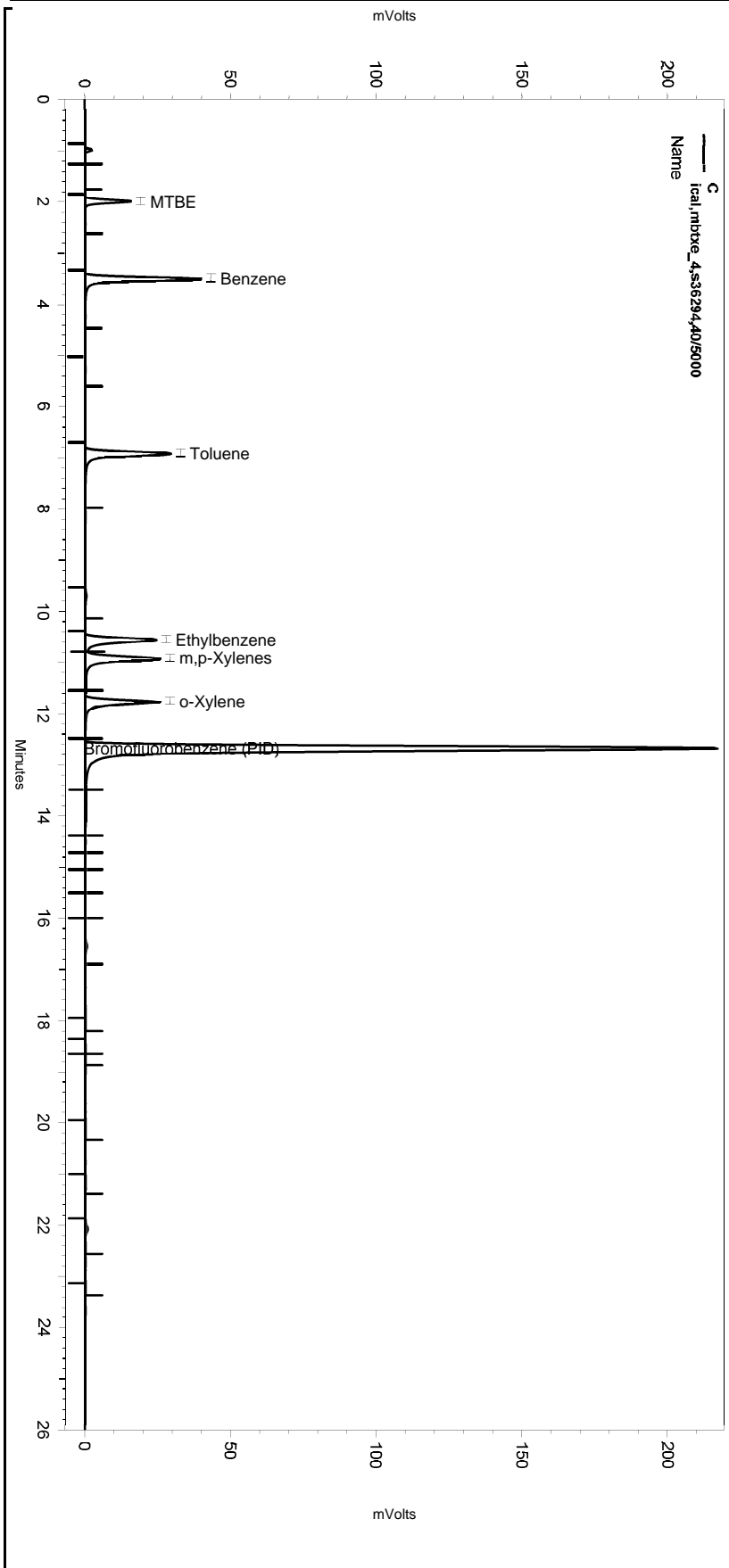
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtXe_4,s36294,40/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-015
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE122.met

Software Version 3.1.7
 Run Date: 5/3/2018 12:50:37 AM
 Analysis Date: 5/4/2018 11:08:42 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

-----< General Method Parameters >-----

No items selected for this section

-----< C >-----

No items selected for this section

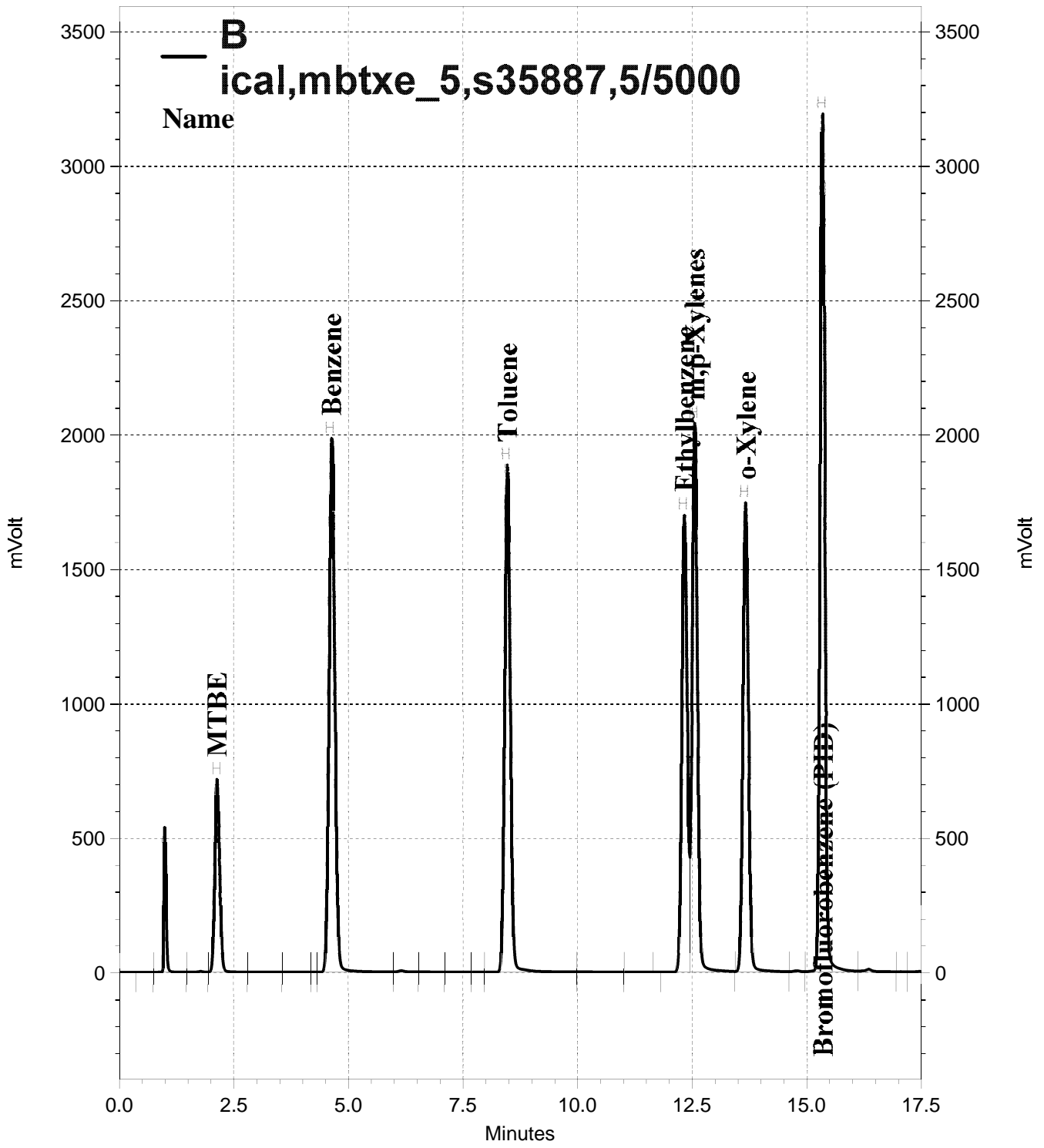
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

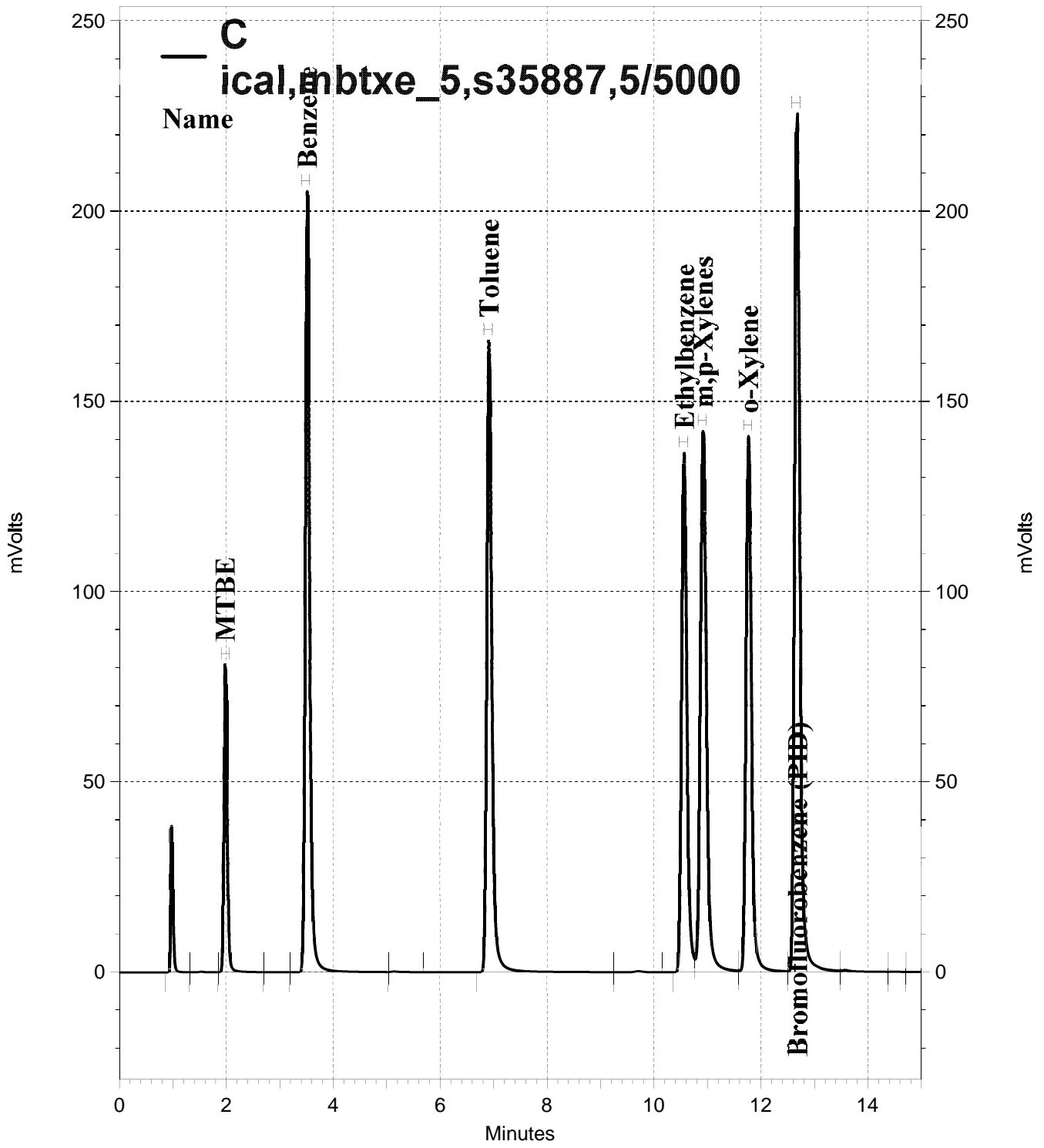
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\122-016, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-016, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
Sample Name: ical,mbtXe_5,s35887,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-016
Instrument: GC07 (Offline) Vial: N/A Operator: TvH 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtXe122.met

Software Version 3.1.7
Run Date: 5/3/2018 1:28:54 AM
Analysis Date: 5/4/2018 11:08:53 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1879119	0.000 CAL
GAS:6-10			13098918	0.000 CAL
GAS:6-12			13188107	0.000 CAL
GAS:7-12			13165764	0.000 CAL
JP4:7-12			13165764	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.117	5323778	500.000 CAL
Benzene	4.633	4.600	17765145	500.000 CAL
Toluene	8.467	8.433	16149332	500.000 CAL
Ethylbenzene	12.333	12.300	13777657	500.000 CAL
m,p-Xylenes	12.550	12.517	16547745	500.000 CAL
o-Xylene	13.667	13.633	14448933	500.000 CAL
Bromofluorobenzene (PID)	15.350	15.317	23301717	900.000 CAL

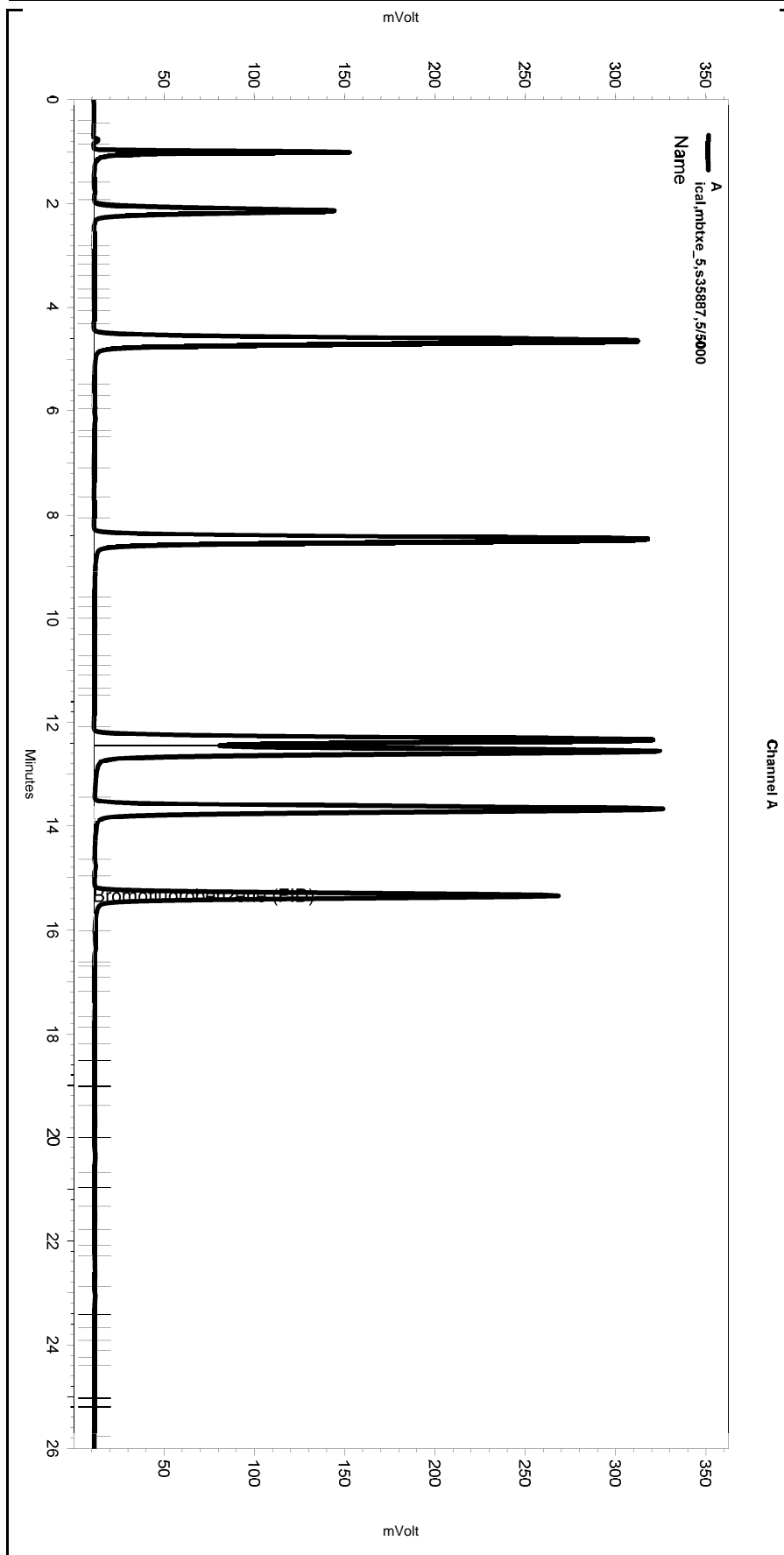
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	364723	500.000 CAL
Benzene	3.516	3.483	1230453	500.000 CAL
Toluene	6.916	6.900	1111796	500.000 CAL
Ethylbenzene	10.566	10.549	935678	500.000 CAL
m,p-Xylenes	10.916	10.899	1153365	500.000 CAL
o-Xylene	11.766	11.749	992229	500.000 CAL
Bromofluorobenzene (PID)	12.683	12.649	1574923	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtxe_5,s35887,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-016
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 1:28:54 AM
 Analysis Date: 5/4/2018 11:08:53 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

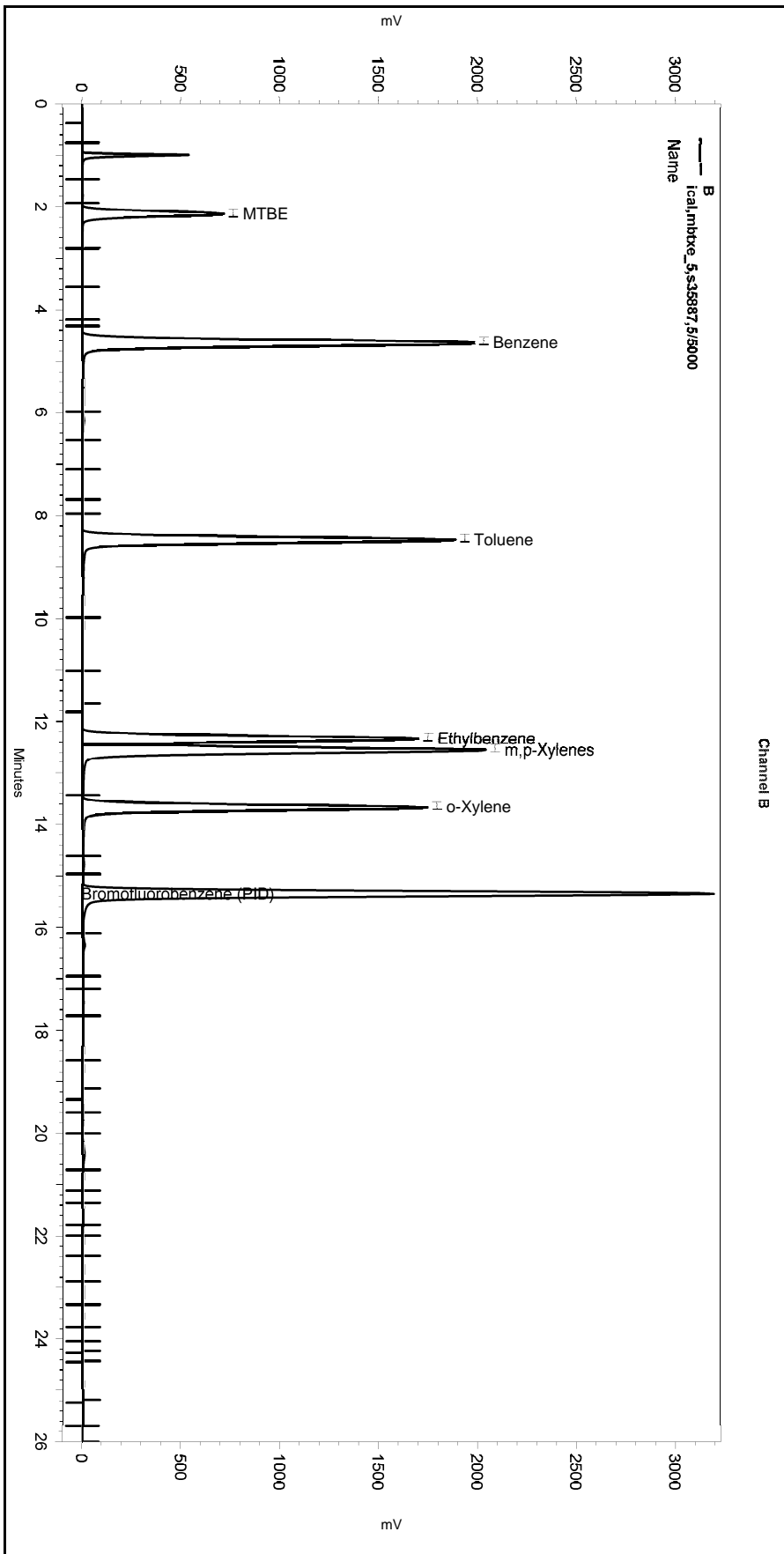
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtxe_5,s35887,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-016
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 1:28:54 AM
 Analysis Date: 5/4/2018 11:08:53 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

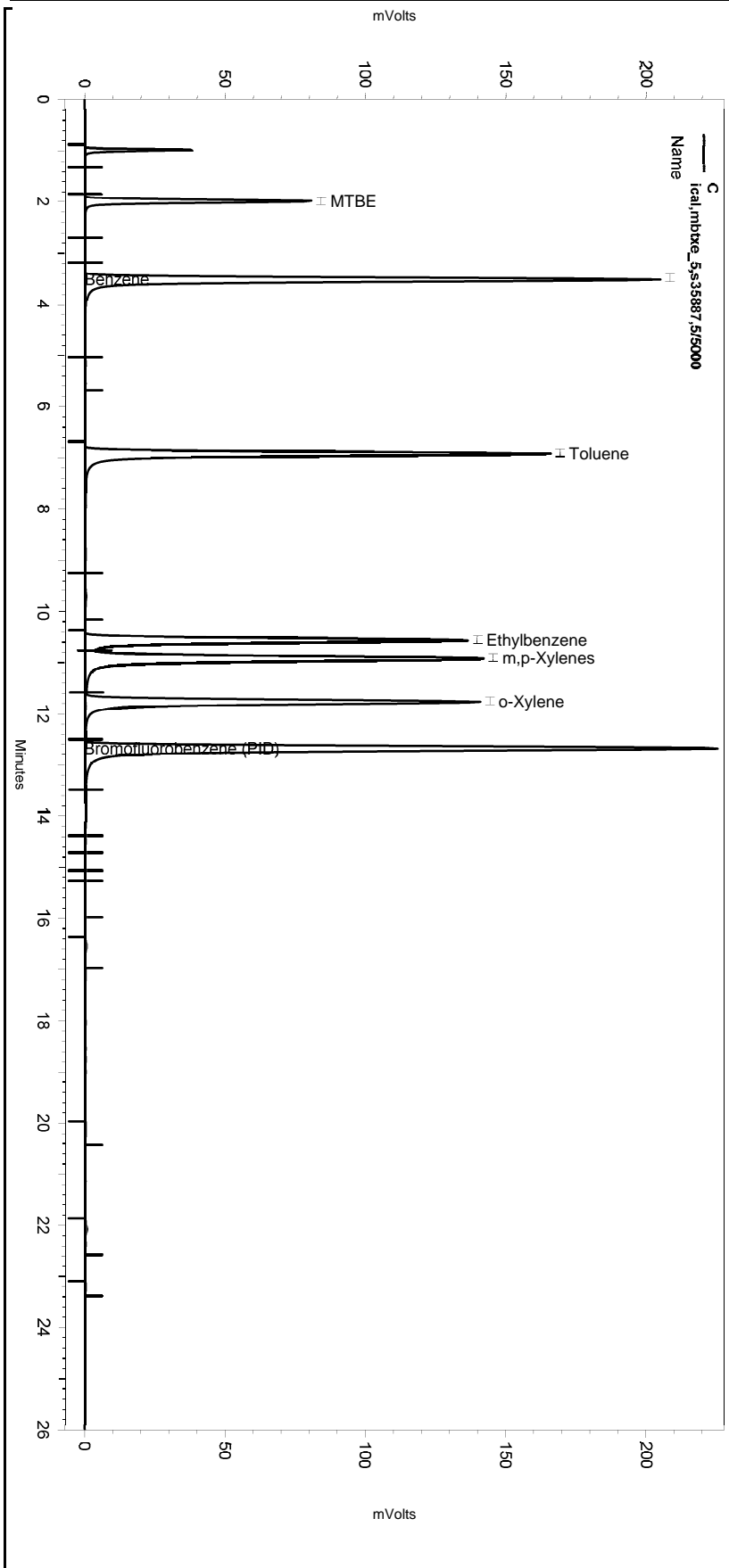
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbt_xe_5,s35887,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-016
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbt_xe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 1:28:54 AM
 Analysis Date: 5/4/2018 11:08:53 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

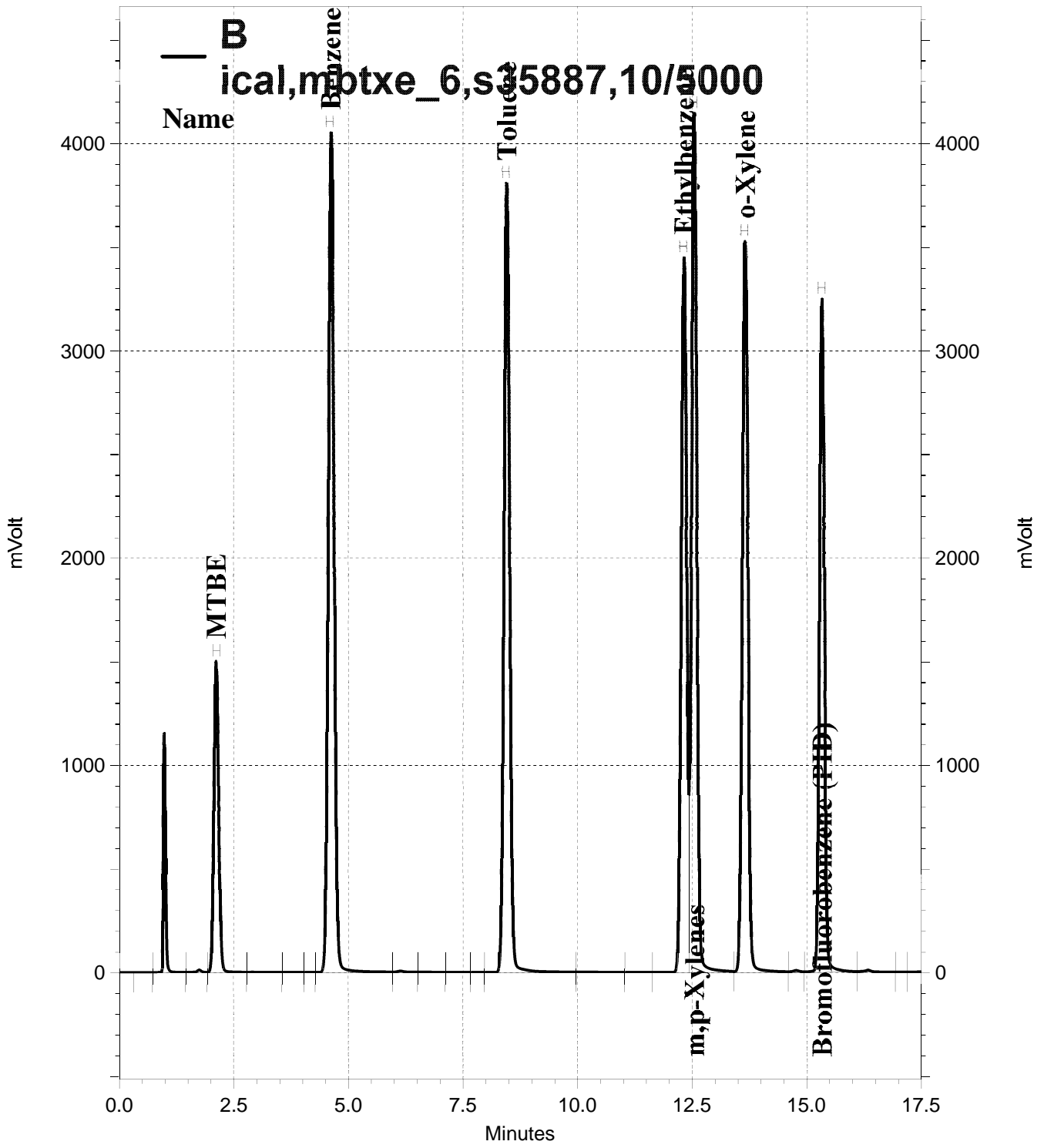
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

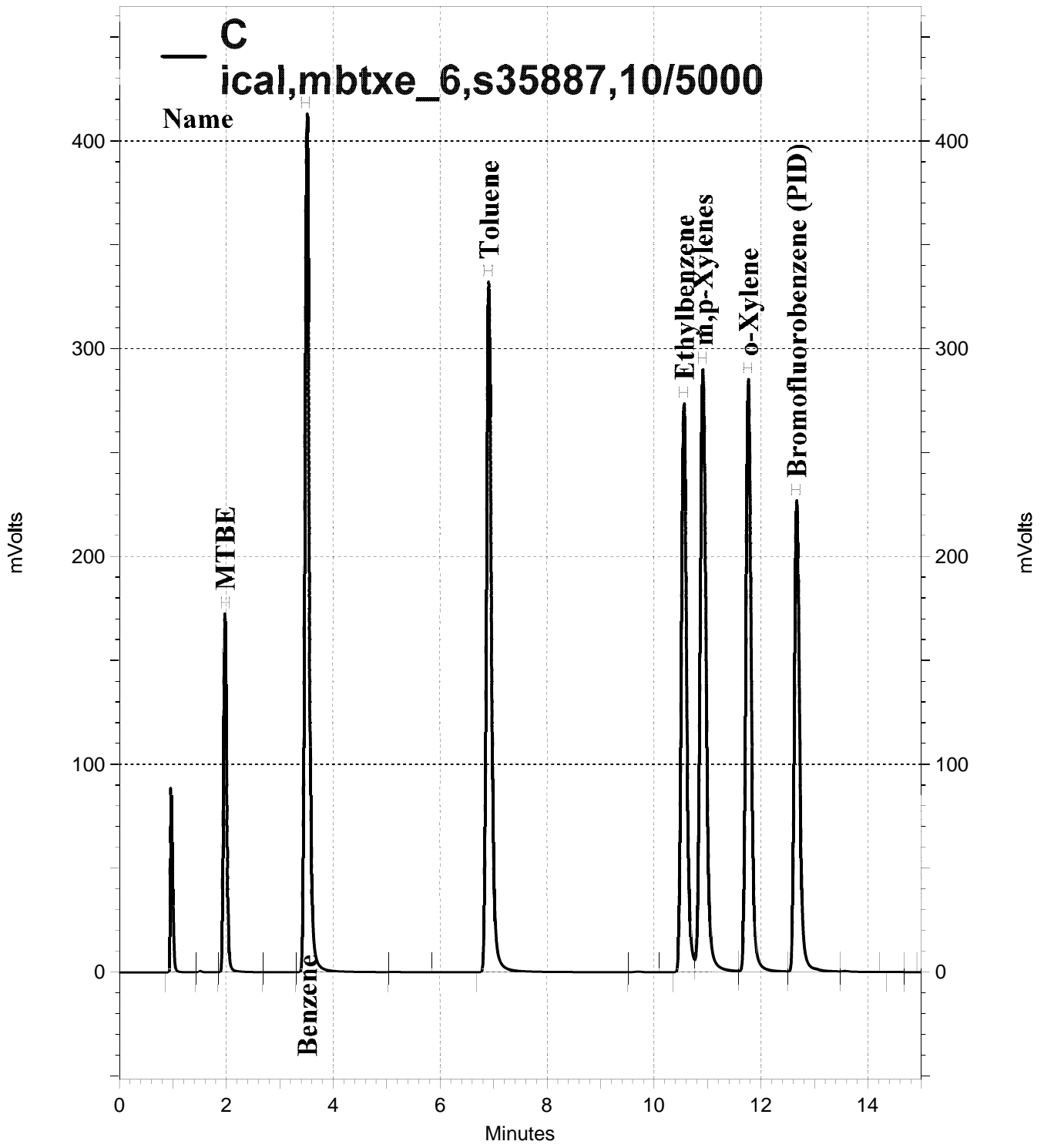
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-017, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\122-017, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbt_xe_6,s35887,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-017
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbt_xe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 2:07:05 AM
 Analysis Date: 5/4/2018 11:09:05 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1893142	0.000 CAL
GAS:6-10			26458776	0.000 CAL
GAS:6-12			26601564	0.000 CAL
GAS:7-12			26574216	0.000 CAL
JP4:7-12			26574216	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.117	11001477	1000.000 CAL
Benzene	4.617	4.600	36077176	1000.000 CAL
Toluene	8.450	8.433	32713370	1000.000 CAL
Ethylbenzene	12.317	12.300	27919363	1000.000 CAL
m,p-Xylenes	12.550	12.517	33659060	1000.000 CAL
o-Xylene	13.650	13.633	29290682	1000.000 CAL
Bromofluorobenzene (PID)	15.333	15.317	23528352	900.000 CAL

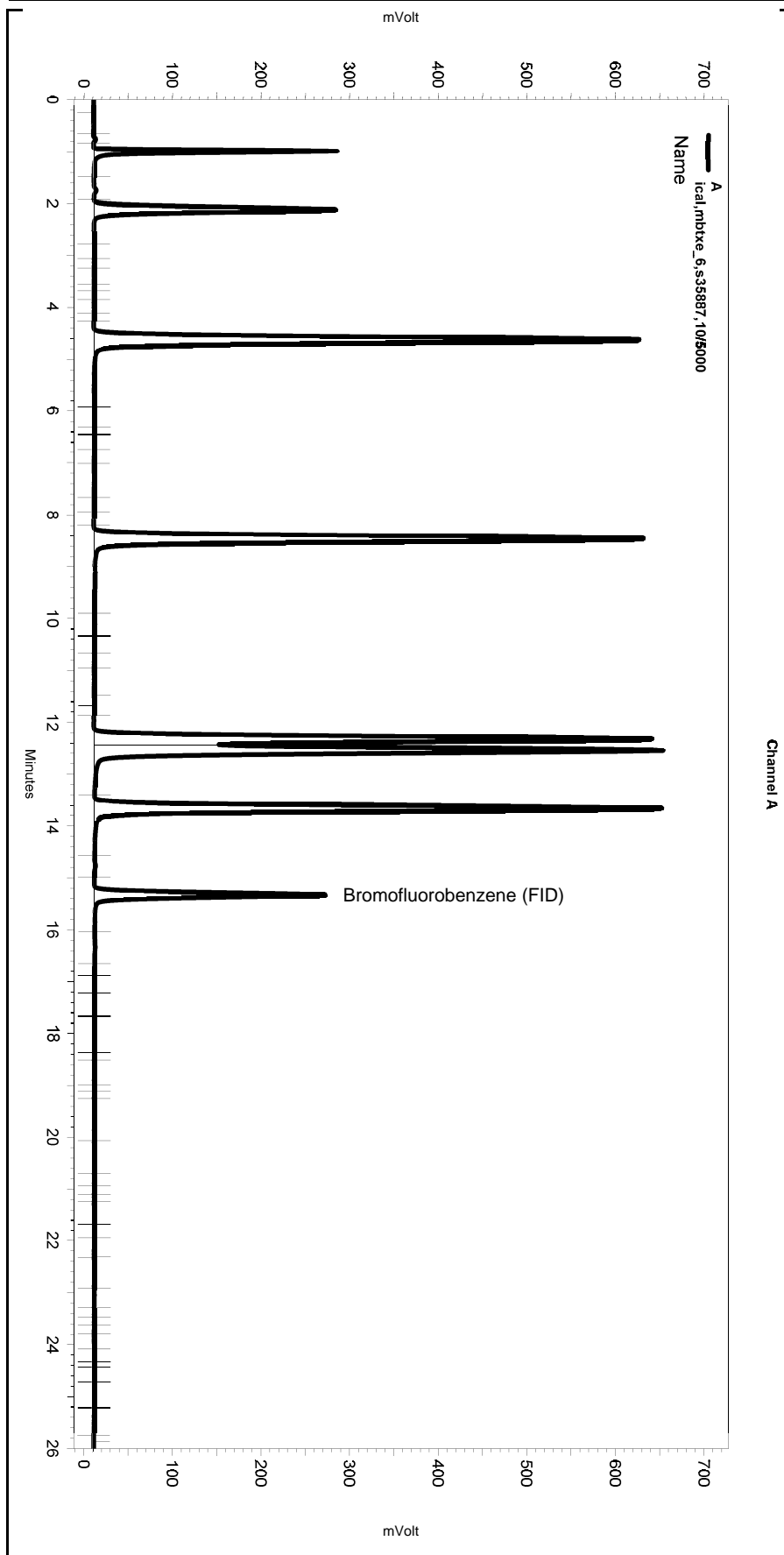
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	745454	1000.000 CAL
Benzene	3.516	3.483	2462678	1000.000 CAL
Toluene	6.916	6.900	2231704	1000.000 CAL
Ethylbenzene	10.566	10.549	1900921	1000.000 CAL
m,p-Xylenes	10.916	10.899	2311774	1000.000 CAL
o-Xylene	11.766	11.749	1988489	1000.000 CAL
Bromofluorobenzene (PID)	12.666	12.649	1561369	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtxe_6,s35887,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-017
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbx122.met

Software Version 3.1.7
 Run Date: 5/3/2018 2:07:05 AM
 Analysis Date: 5/4/2018 11:09:05 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

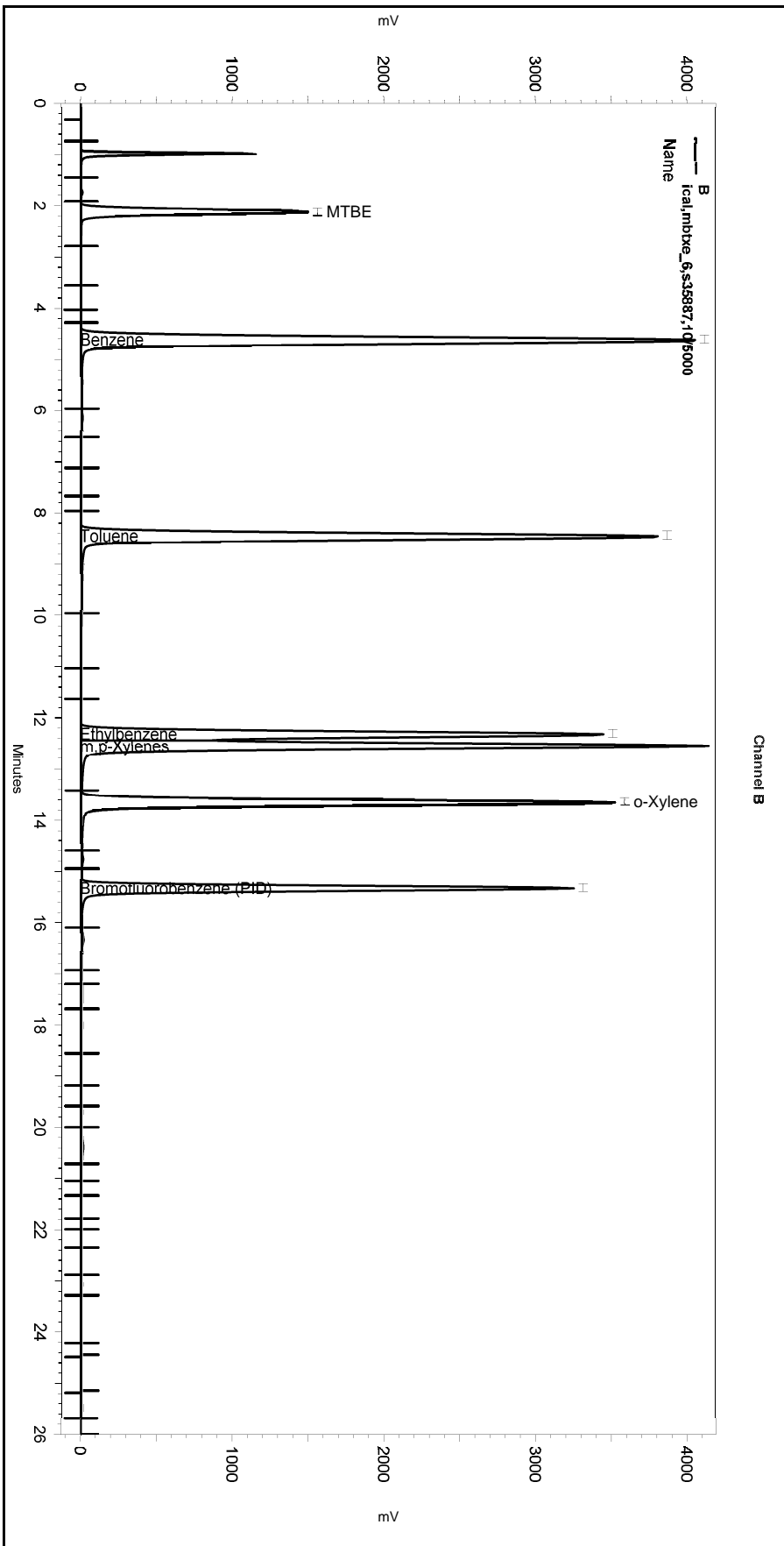
Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtixe_6,s35887,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-017
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtixe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 2:07:05 AM
 Analysis Date: 5/4/2018 11:09:05 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---> B <-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

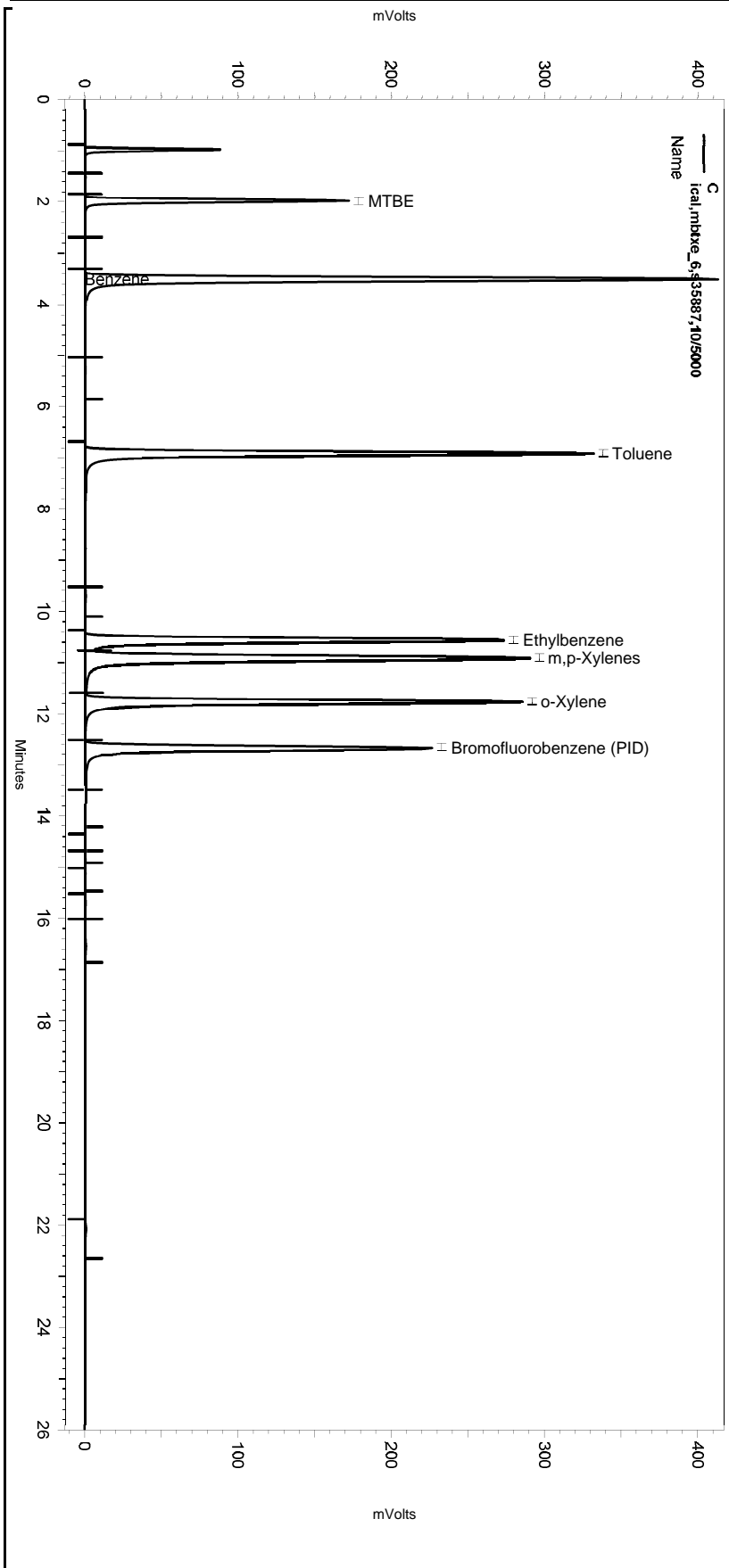
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbt_xe_6,s35887,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-017
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbt_xe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 2:07:05 AM
 Analysis Date: 5/4/2018 11:09:05 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

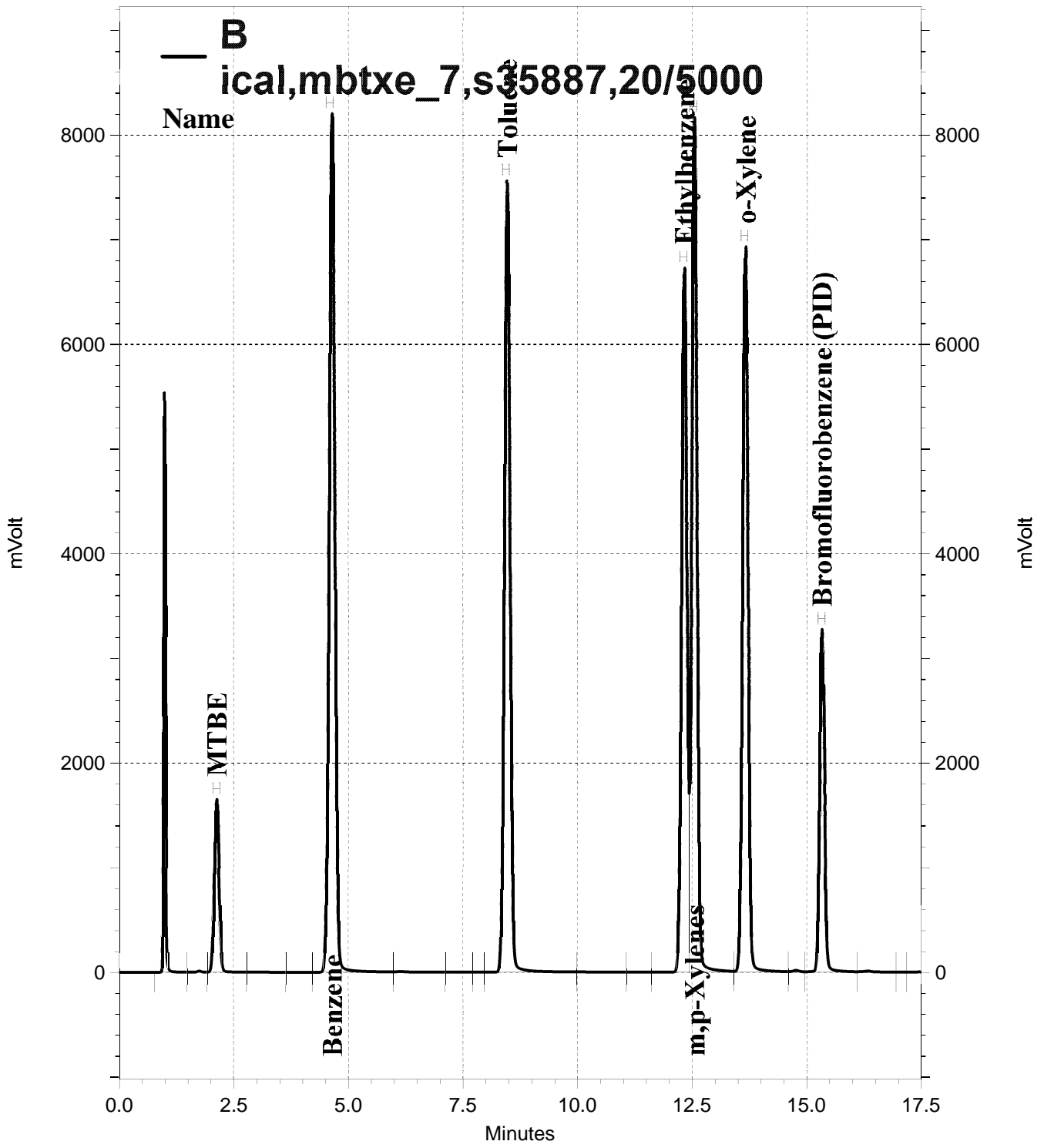
=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

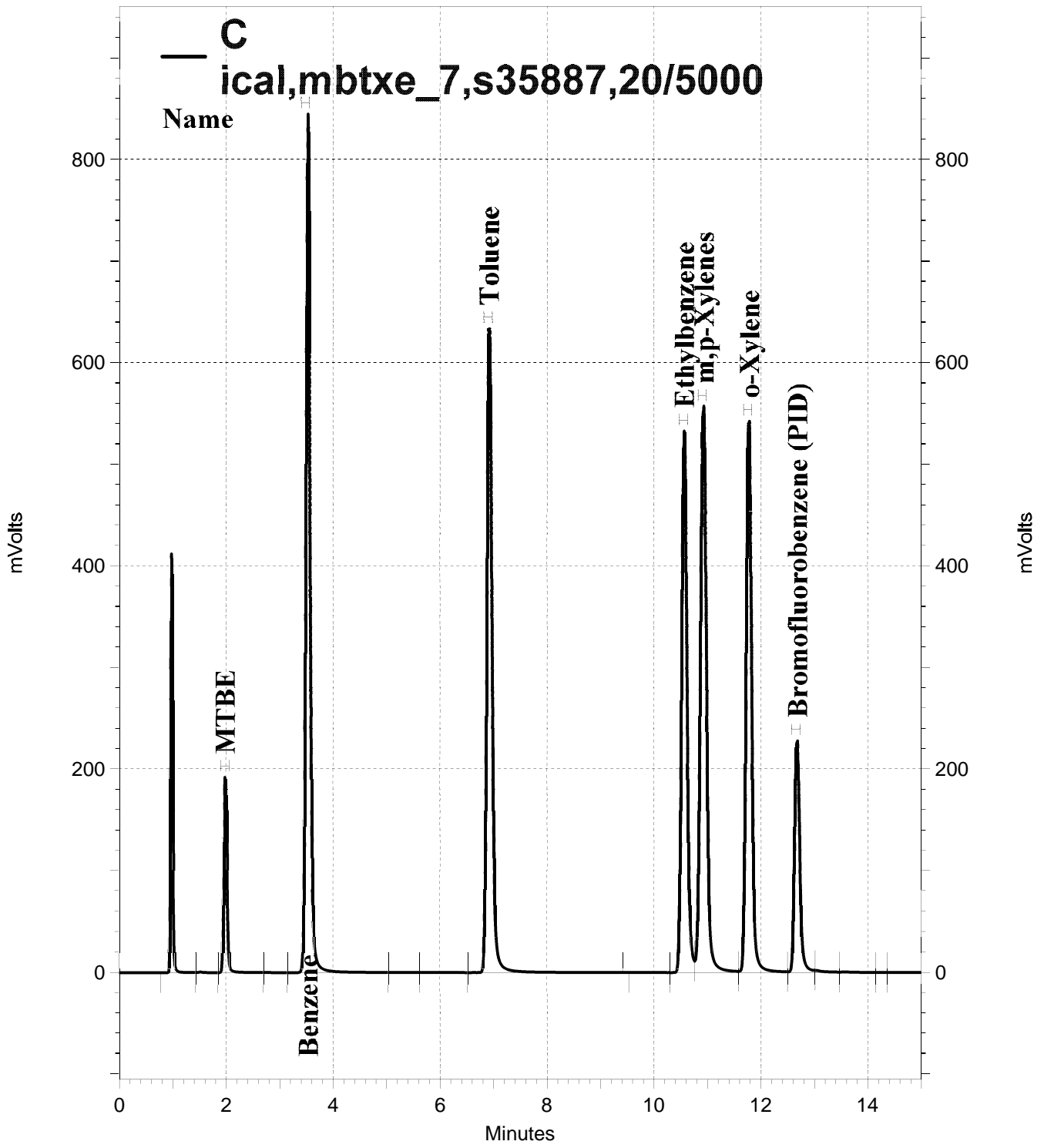
=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\122-018, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\122-018, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtixe_7,s35887,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-018
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtixe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 2:45:19 AM
 Analysis Date: 5/4/2018 11:09:15 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1928840	0.000 CAL
GAS:6-10			52736080	0.000 CAL
GAS:6-12			52857616	0.000 CAL
GAS:7-12			52826416	0.000 CAL
JP4:7-12			52826416	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.117	11967429	2000.000 CAL
Benzene	4.650	4.600	71684770	2000.000 CAL
Toluene	8.467	8.433	64471890	2000.000 CAL
Ethylbenzene	12.333	12.300	53855522	2000.000 CAL
m,p-Xylenes	12.550	12.517	66483714	2000.000 CAL
o-Xylene	13.667	13.633	57321236	2000.000 CAL
Bromofluorobenzene (PID)	15.333	15.317	23696262	900.000 CAL

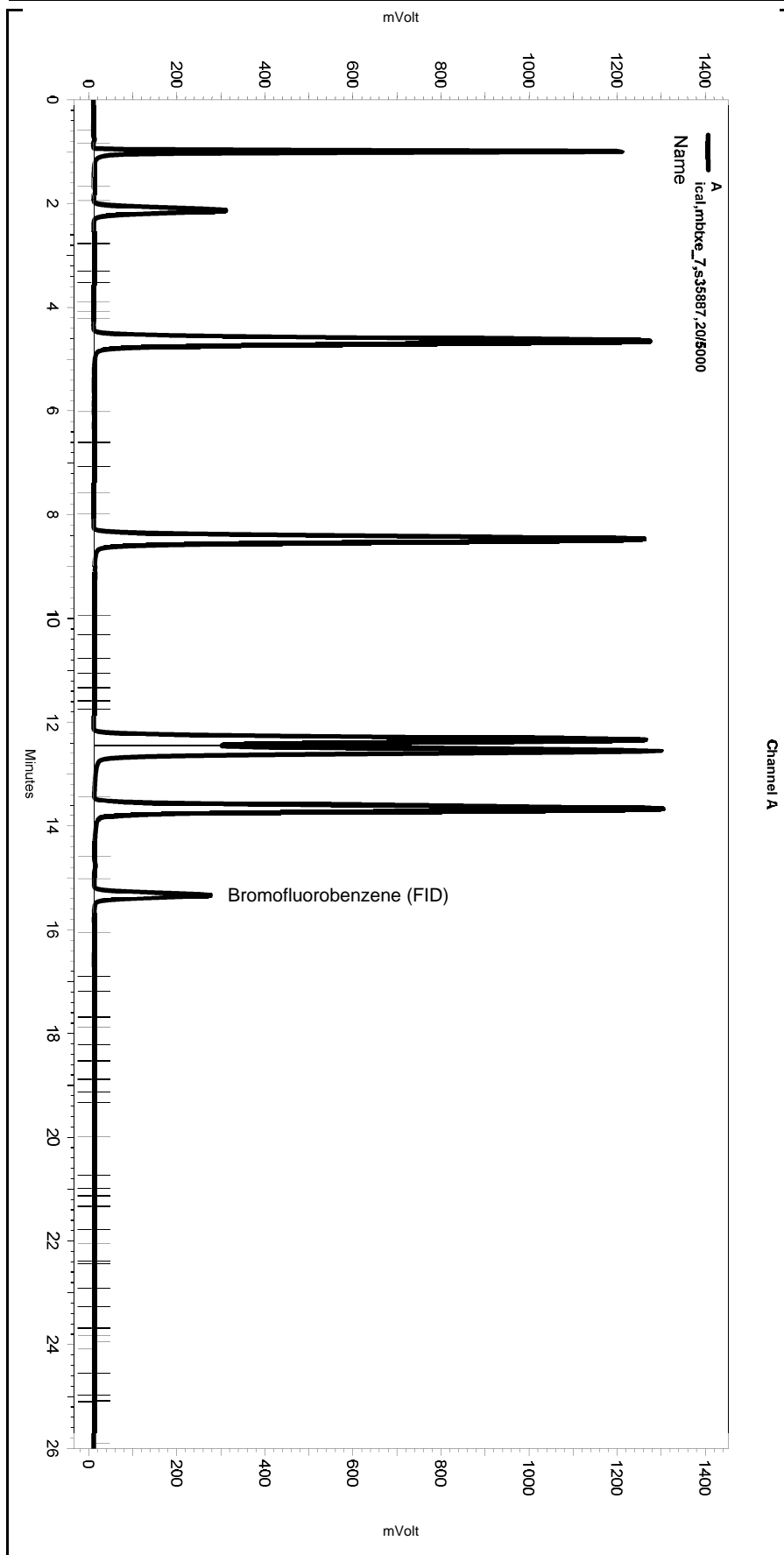
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	806204	2000.000 CAL
Benzene	3.533	3.483	4778671	2000.000 CAL
Toluene	6.916	6.900	4341059	2000.000 CAL
Ethylbenzene	10.566	10.549	3687528	2000.000 CAL
m,p-Xylenes	10.933	10.899	4469058	2000.000 CAL
o-Xylene	11.783	11.749	3861787	2000.000 CAL
Bromofluorobenzene (PID)	12.683	12.649	1547712	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbtixe_7,s35887,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-018
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtixe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 2:45:19 AM
 Analysis Date: 5/4/2018 11:09:15 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

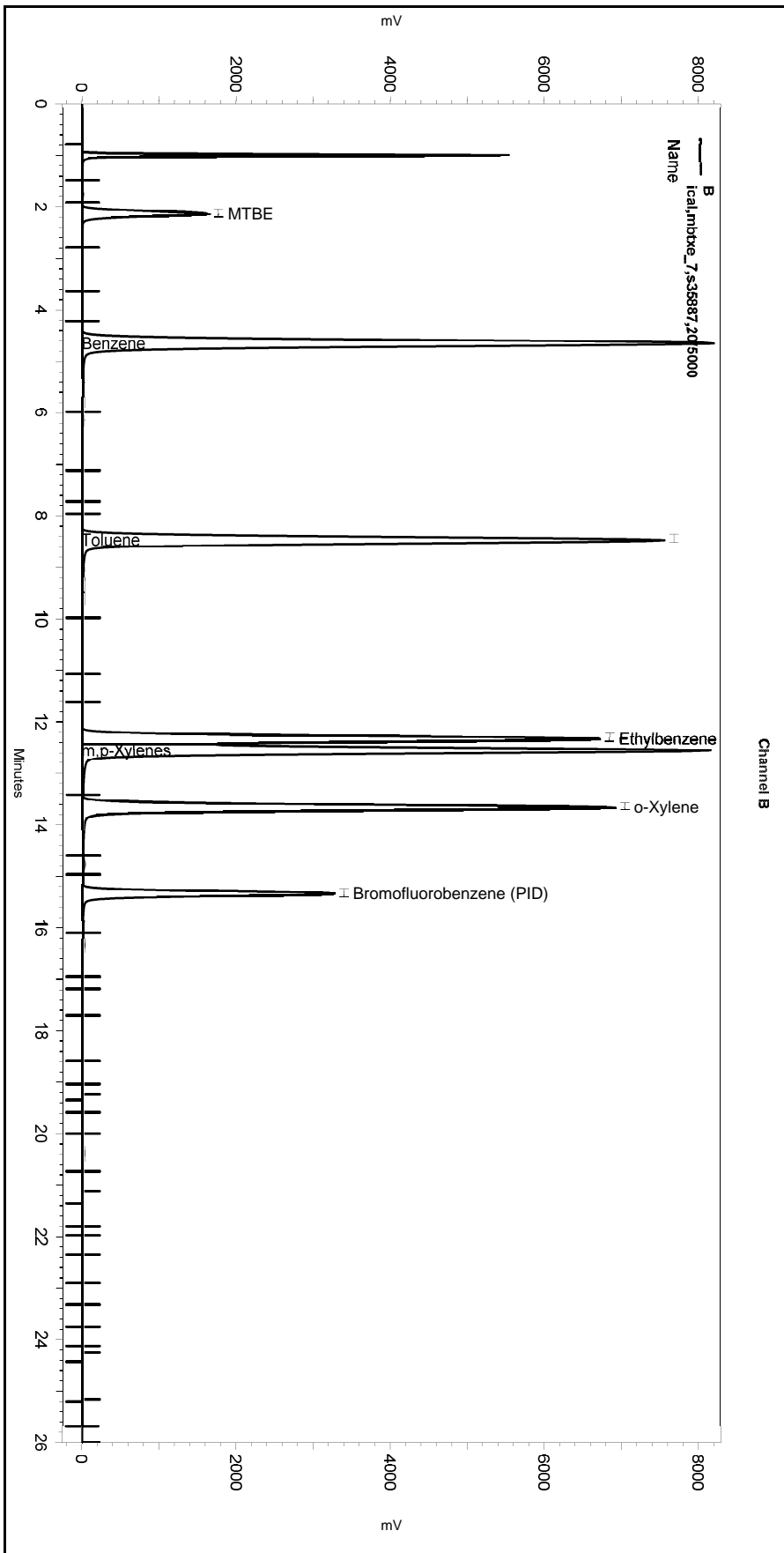
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbt_xe_7,s35887,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-018
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE122.met

Software Version 3.1.7
 Run Date: 5/3/2018 2:45:19 AM
 Analysis Date: 5/4/2018 11:09:15 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---> B <-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

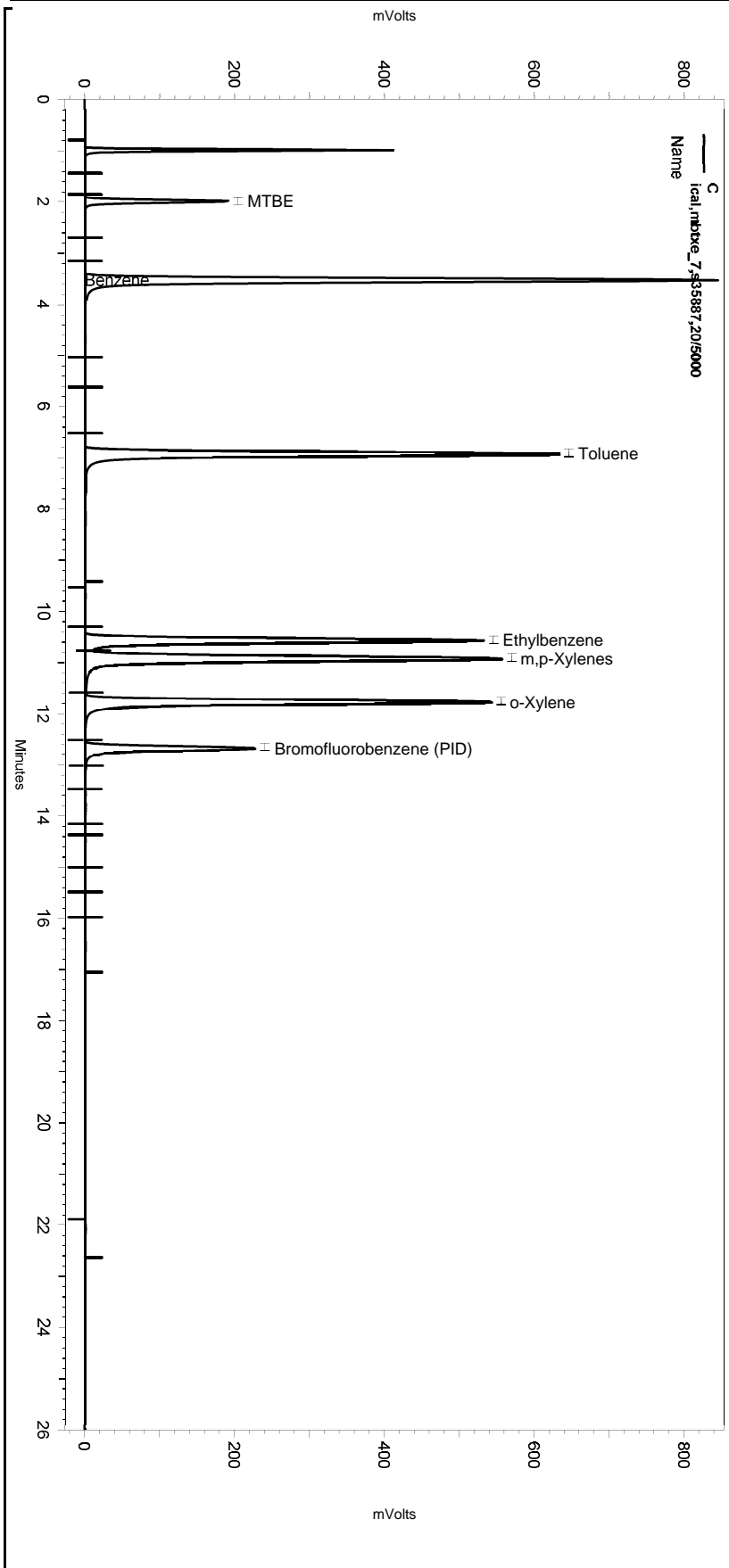
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: ical,mbt_xe_7,s35887,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-018
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbt_xe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 2:45:19 AM
 Analysis Date: 5/4/2018 11:09:15 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

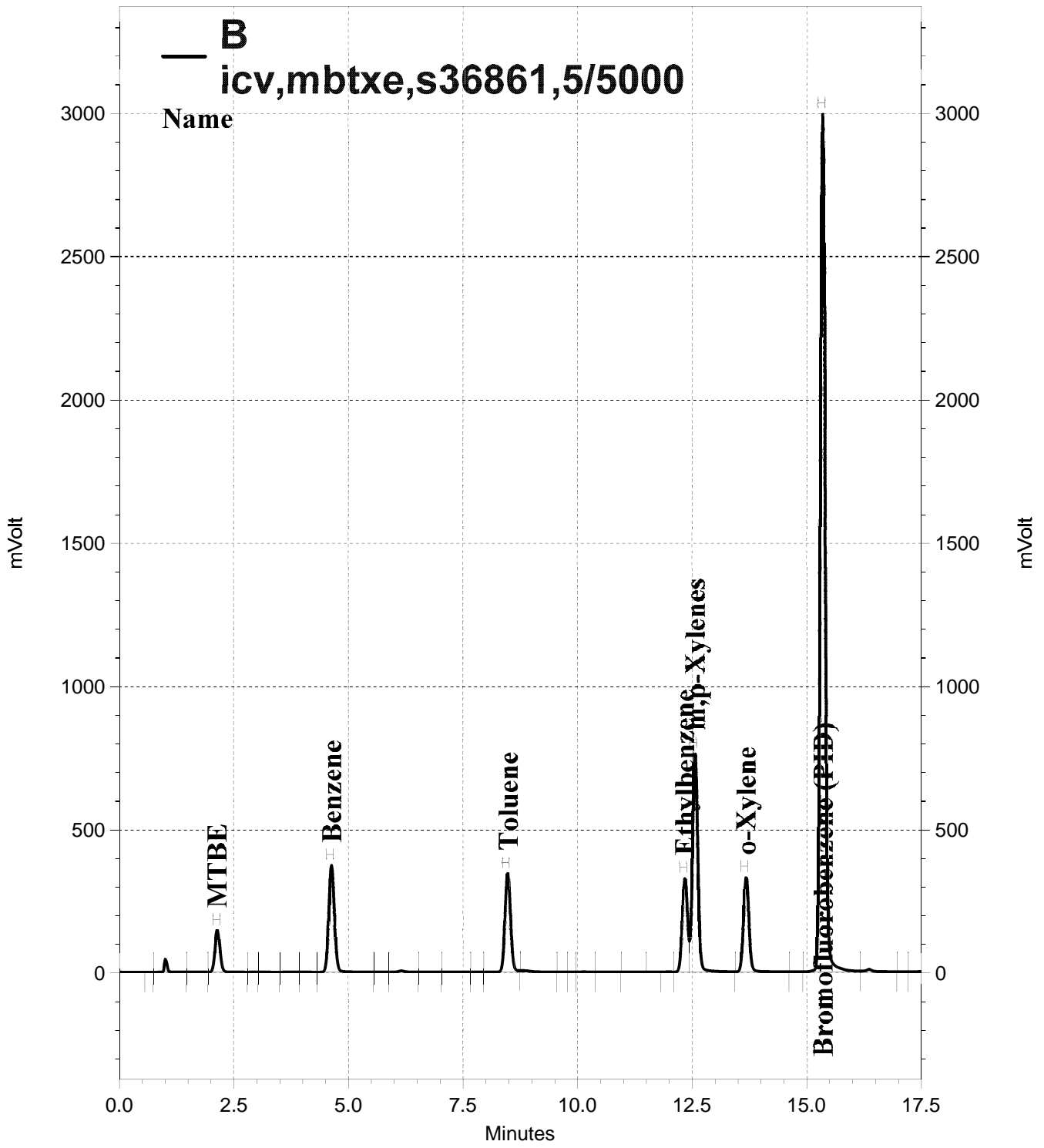
=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

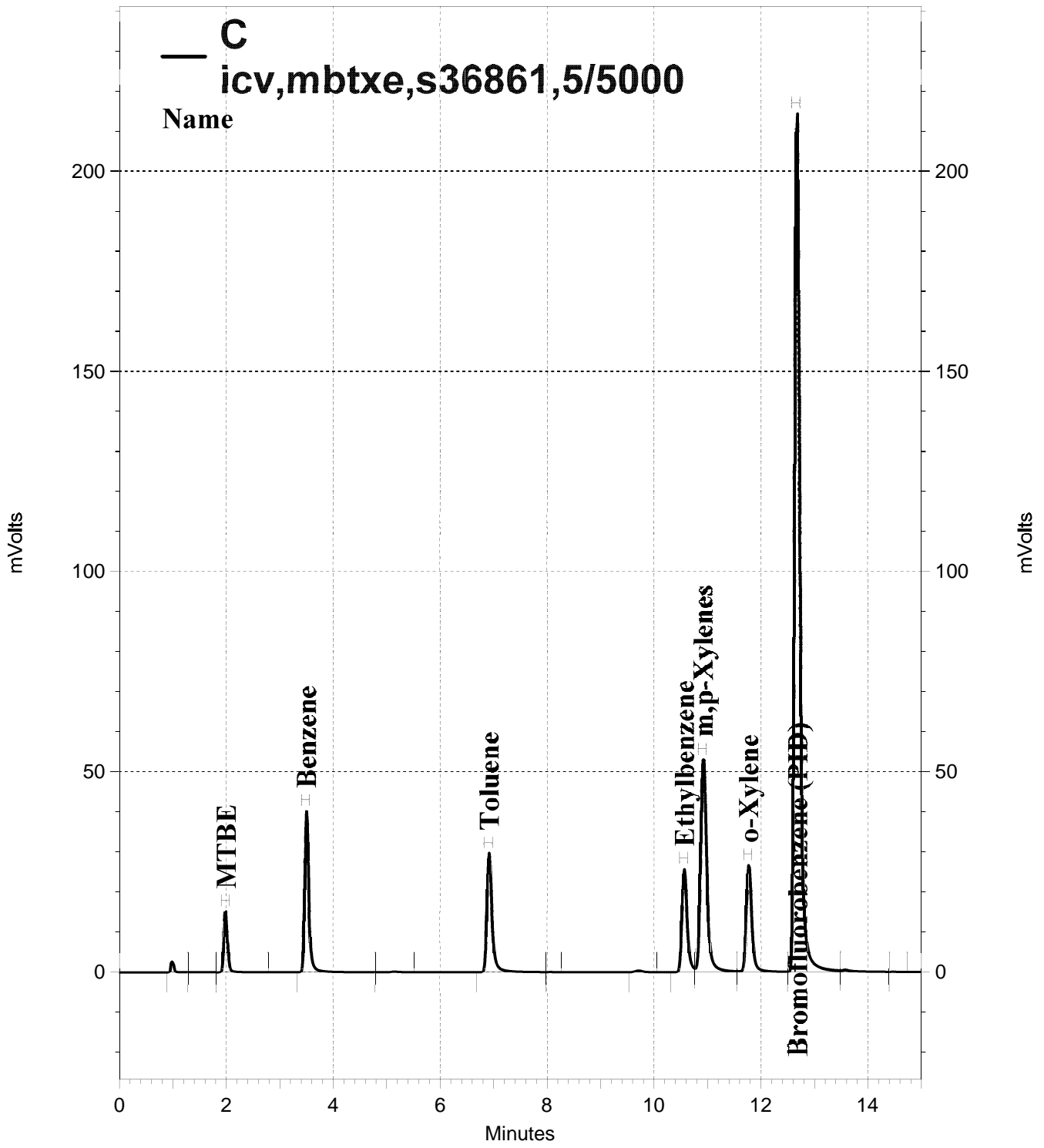
=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\122-020, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-020, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
Sample Name: icv,mbtxe,s36861,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-020
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
Run Date: 5/3/2018 4:01:49 AM
Analysis Date: 5/4/2018 11:17:25 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1813196	792.156
GAS:6-10			3225927	1338.242
GAS:6-12			3337760	1103.575
GAS:7-12			3312038	1379.419
JP4:7-12			3312038	883.399

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.117	1125749	97.676
Benzene	4.633	4.600	3216626	95.413
Toluene	8.483	8.433	2939940	92.974
Ethylbenzene	12.333	12.300	2560787	92.819
m,p-Xylenes	12.567	12.517	6255787	181.848
o-Xylene	13.667	13.633	2768419	98.346
Bromofluorobenzene (PID)	15.350	15.317	21720662	852.956

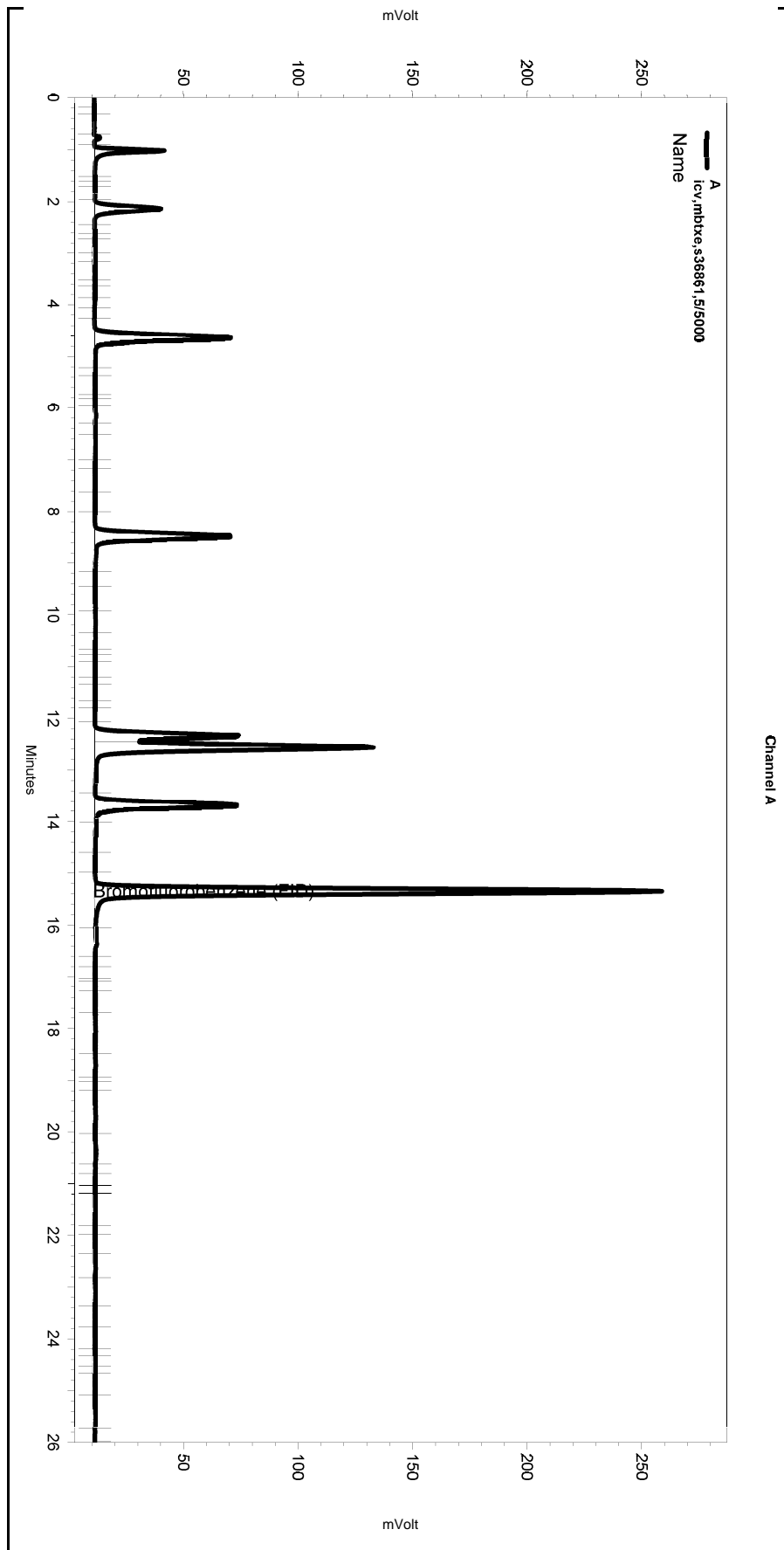
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.000	1.983	75249	104.428
Benzene	3.500	3.483	225854	104.588
Toluene	6.916	6.900	203885	102.862
Ethylbenzene	10.566	10.549	176938	108.318
m,p-Xylenes	10.916	10.899	437244	196.770
o-Xylene	11.766	11.749	195031	101.623
Bromofluorobenzene (PID)	12.683	12.649	1508136	870.319

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: icv,mbtxe,s36861,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-020
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 4:01:49 AM
 Analysis Date: 5/4/2018 11:17:25 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

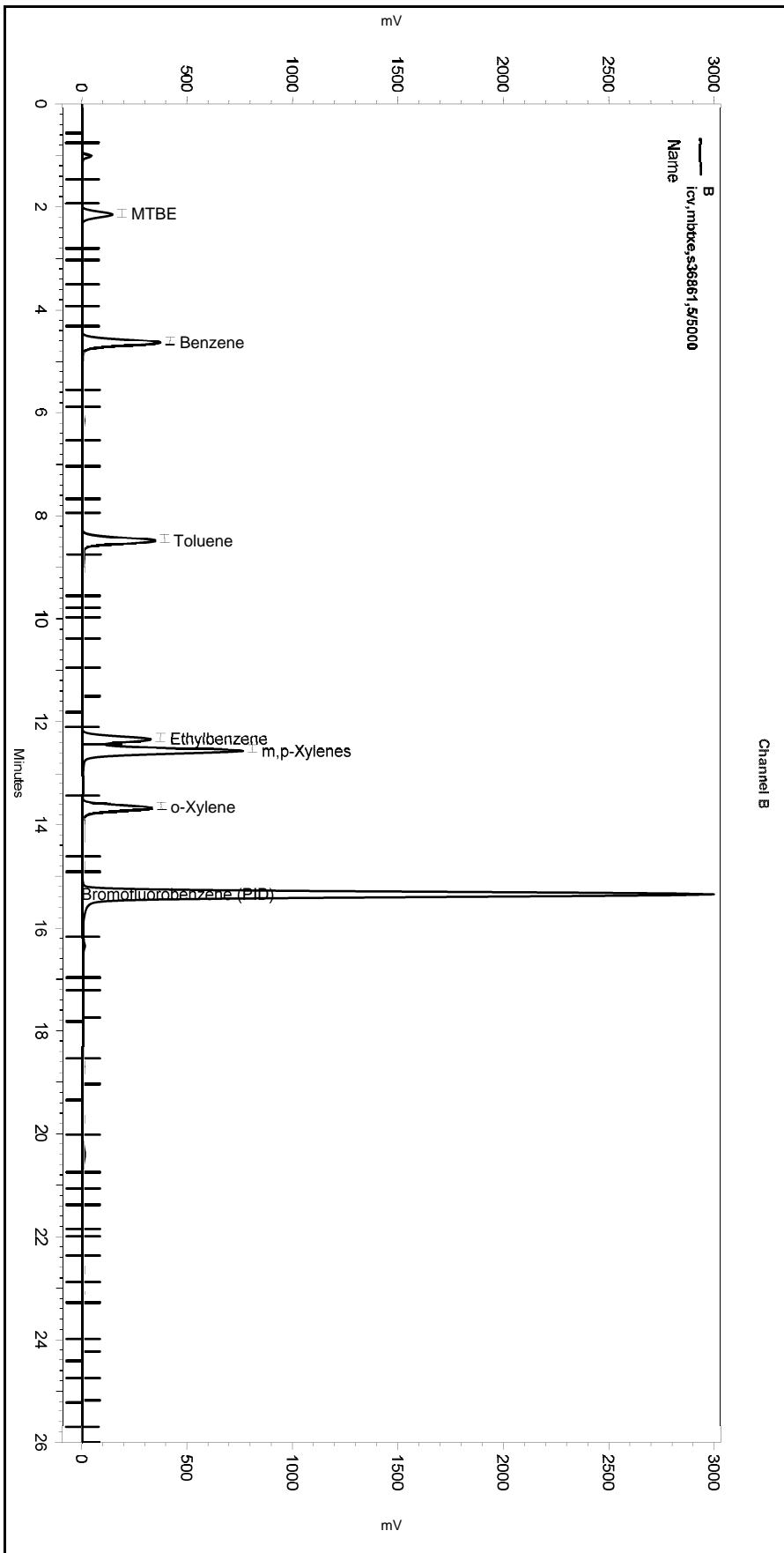
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: icv,mbtxe,s36861,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-020
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE122.met

Software Version 3.1.7
 Run Date: 5/3/2018 4:01:49 AM
 Analysis Date: 5/4/2018 11:17:25 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

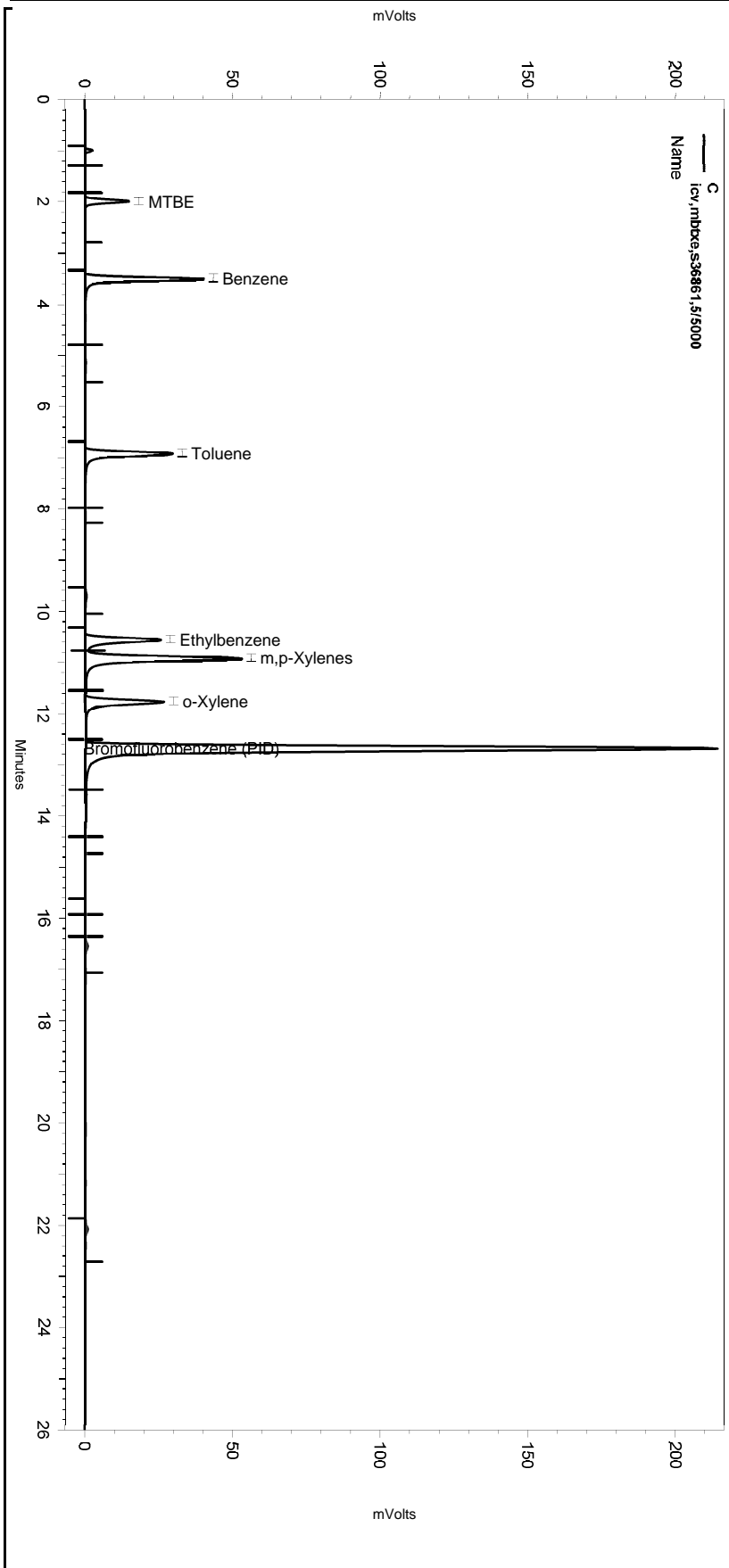
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\122.seq
 Sample Name: icv,mbtxe,s36861,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-020
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe122.met

Software Version 3.1.7
 Run Date: 5/3/2018 4:01:49 AM
 Analysis Date: 5/4/2018 11:17:25 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

---< General Method Parameters >---

No items selected for this section

---< C >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\122-020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY INITIAL CALIBRATION FOR 301314 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 328275574001
 Units : ng

Name : TVH_191
 Date : 10-JUL-2018 15:05
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	191_008	328275574008	TVH_14	10-JUL-2018 15:05	S36893 (1000X), S37192 (5000X)
L2	191_009	328275574009	TVH_15	10-JUL-2018 15:43	S36892 (1000X), S37192 (5000X)
L3	191_010	328275574010	TVH_16	10-JUL-2018 16:21	S36891 (1000X), S37192 (5000X)
L4	191_011	328275574011	TVH_17	10-JUL-2018 17:00	S36890 (2000X), S37192 (5000X)
L5	191_012	328275574012	TVH_18	10-JUL-2018 17:38	S36890 (1000X), S37192 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	3006.3	2394.7	2386.2	2417.3	2312.8	AVRG		3.99E-4		2503.5	11	0.995	20	
Bromofluorobenzene (FID)	A	2145.4	2088.4	2218.7	2306.8	2429.1	AVRG		4.47E-4		2237.7	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	20	2500.0	-4	10000	-5	25000	-3	50000	-8
Bromofluorobenzene (FID)	A	900.00	-4	900.00	-7	900.00	-1	900.00	3	900.00	9

Analyst: CJN

Date: 07/11/18

Reviewer: TKM

Date: 07/11/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301314 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 328275574001

Name : TVH_191
Cal Date : 10-JUL-2018

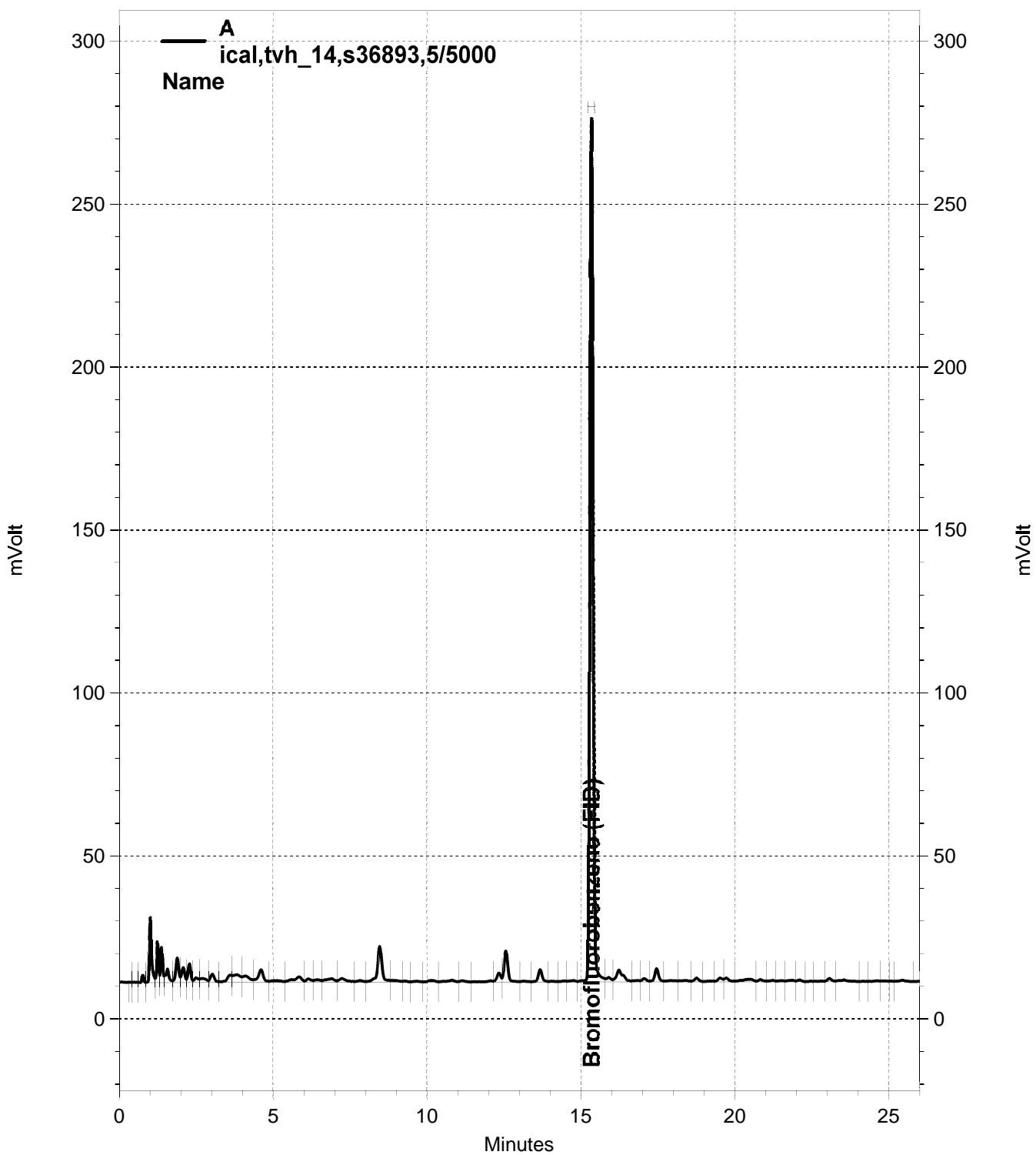
ICV 328275574017 (191_017 11-JUL-2018) stds: S36894 (1000X), S37192 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8708	ng	-13	15	

Analyst: CJN

Date: 07/11/18 * Reviewer: TKM

Date: 07/11/18 *



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-008, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_14,s36893,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-008
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 3:05:23 PM
 Analysis Date: 7/11/2018 10:20:06 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1930885	900.000 CAL
GAS:6-10			706196	250.000 CAL
GAS:6-12			941606	250.000 CAL
GAS:7-12			751563	250.000 CAL
JP4:7-12			751563	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	2.117	37819	0.000 CAL
Benzene	4.617	4.600	114783	0.000 CAL
Toluene	8.467	8.433	555071	0.000 CAL
Ethylbenzene	12.333	12.300	101432	0.000 CAL
m,p-Xylenes	12.550	12.517	478480	0.000 CAL
o-Xylene	13.667	13.633	165290	0.000 CAL
Bromofluorobenzene (PID)	15.350	15.317	22435392	0.000 CAL

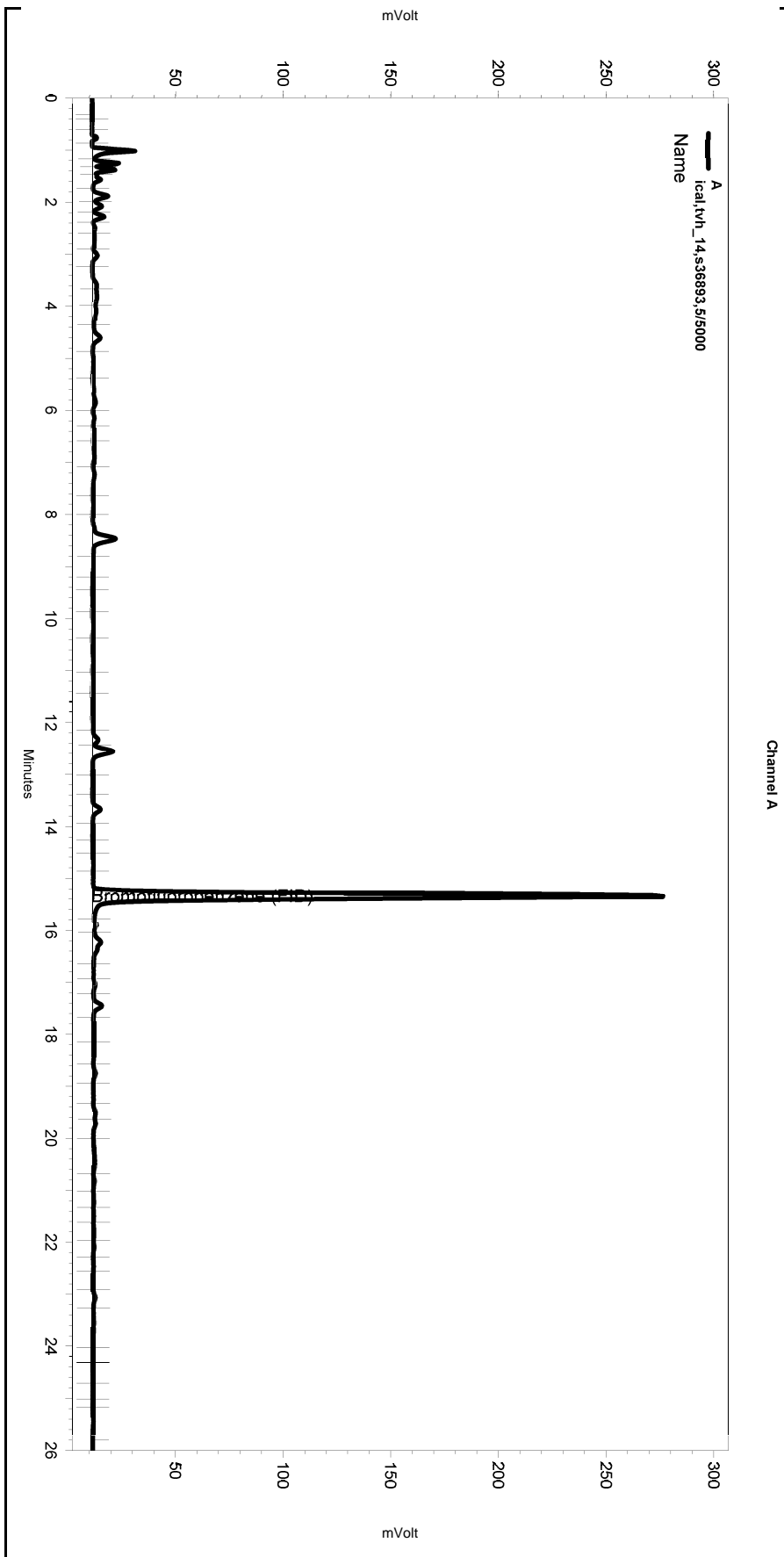
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.017	1.983	2687	0.000 CAL
Benzene	3.483	3.483	4887	0.000 CAL
Toluene	6.916	6.900	32181	0.000 CAL
Ethylbenzene	10.583	10.549	5276	0.000 CAL
m,p-Xylenes	10.916	10.899	27142	0.000 CAL
o-Xylene	11.766	11.749	9490	0.000 CAL
Bromofluorobenzene (PID)	12.666	12.649	1441851	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_14,s36893,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-008
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 3:05:23 PM
 Analysis Date: 7/11/2018 10:20:06 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < A >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

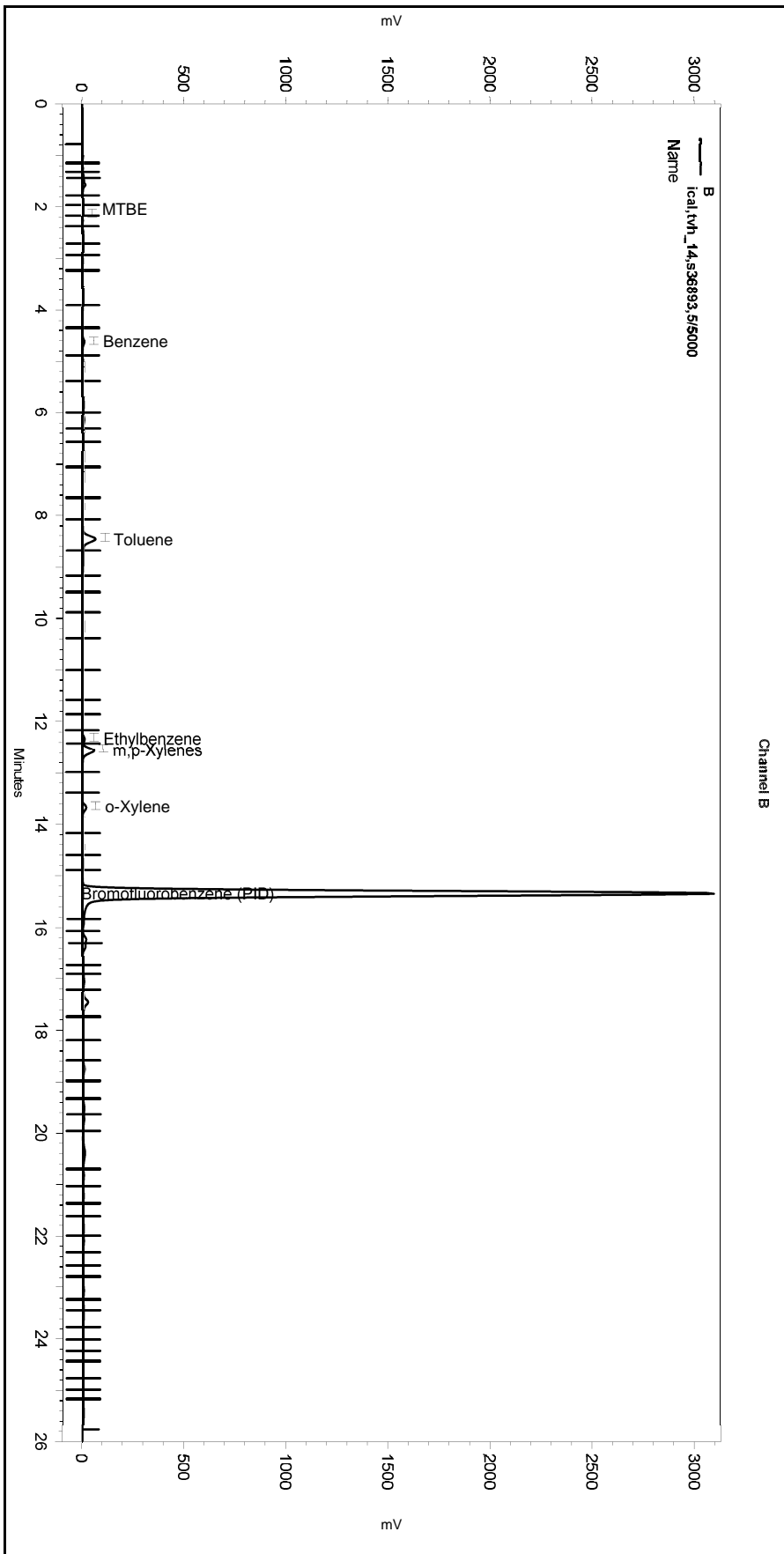
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_14,s36893,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-008
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX191.met

Software Version 3.1.7
 Run Date: 7/10/2018 3:05:23 PM
 Analysis Date: 7/11/2018 10:20:06 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

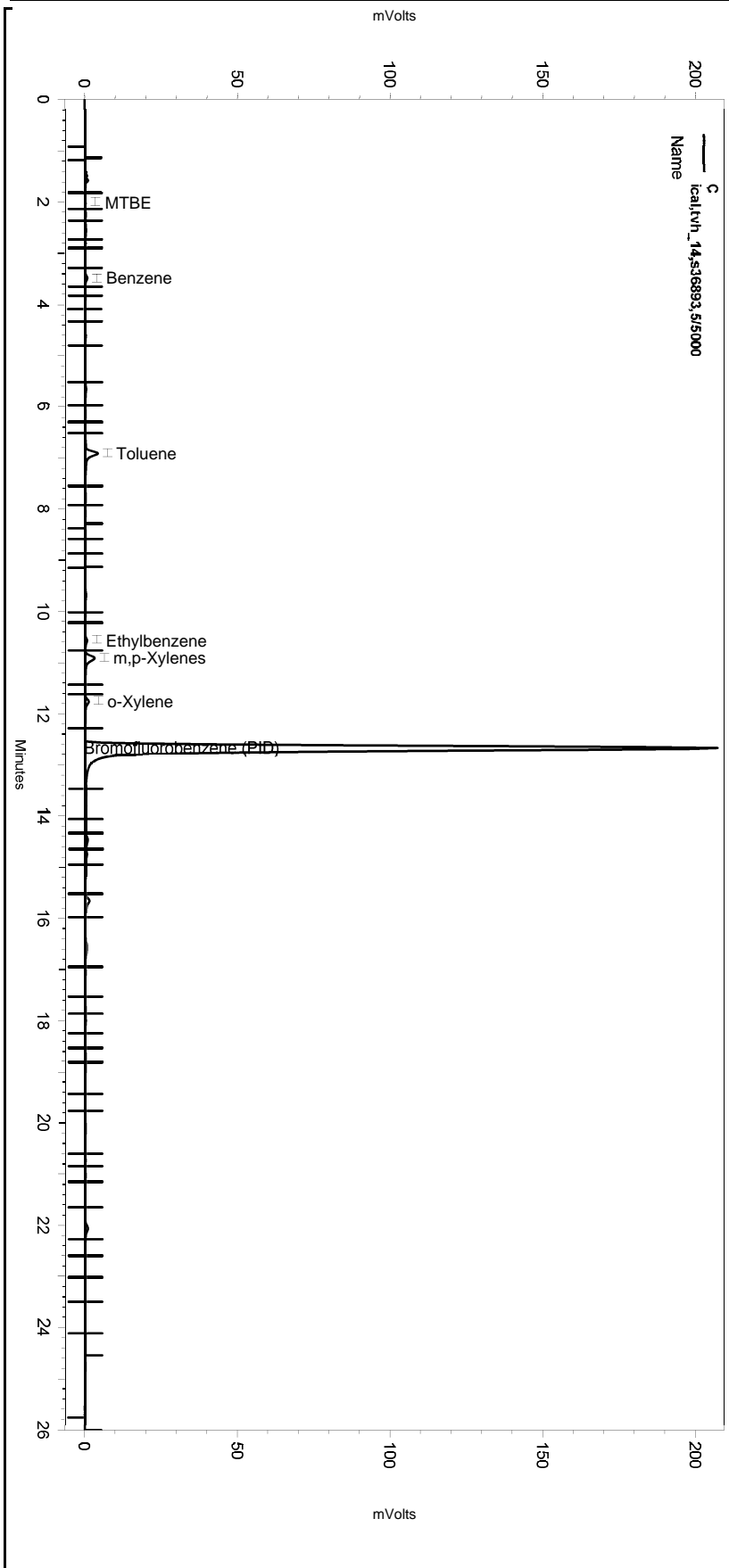
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_14,s36893,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-008
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX191.met

Software Version 3.1.7
 Run Date: 7/10/2018 3:05:23 PM
 Analysis Date: 7/11/2018 10:20:06 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

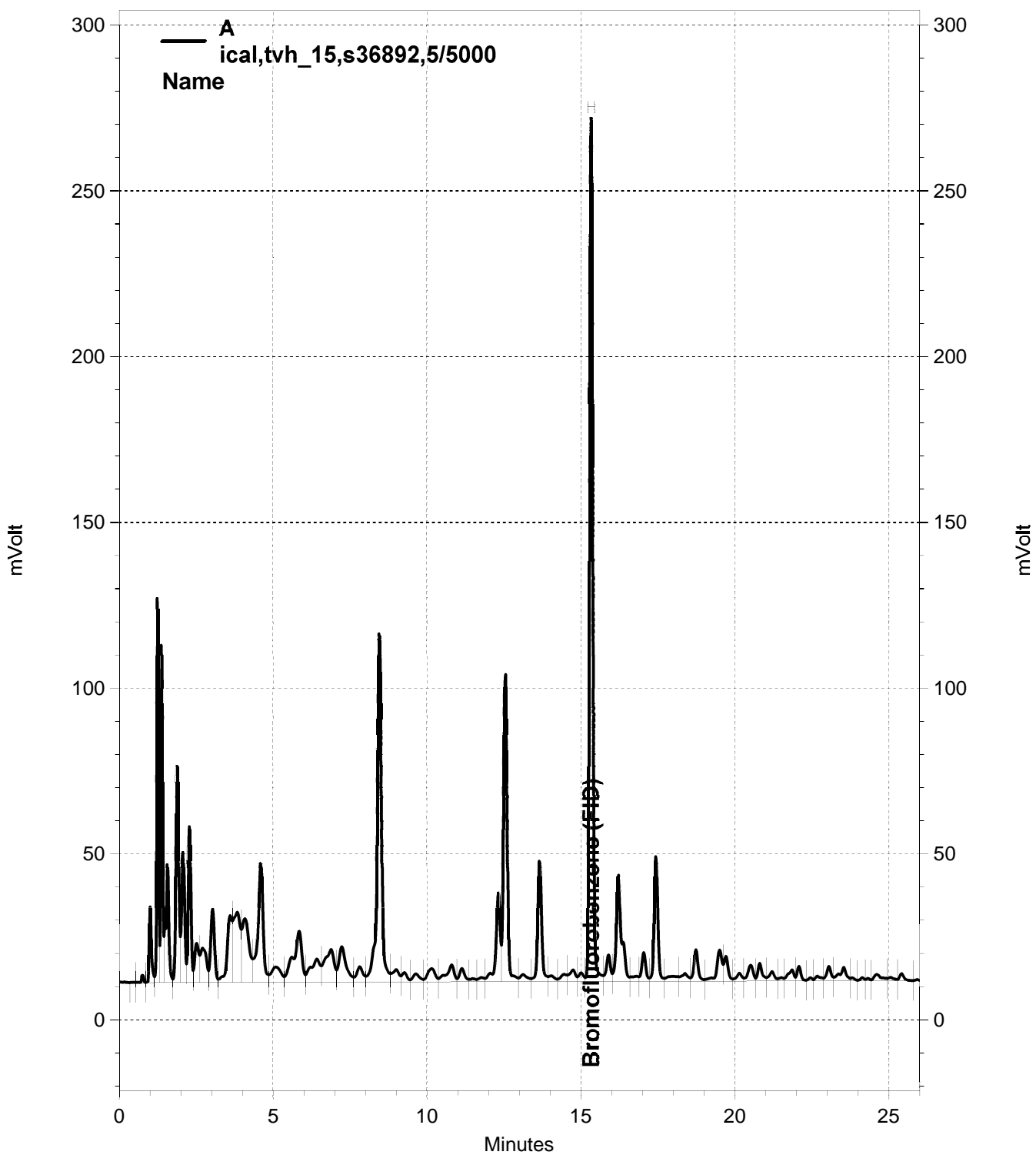
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-009, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
Sample Name: ical,tvh_15,s36892,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-009
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/10/2018 3:43:33 PM
Analysis Date: 7/11/2018 10:20:16 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1879551	900.000 CAL
GAS:6-10			6106472	2500.000 CAL
GAS:6-12			7598568	2500.000 CAL
GAS:7-12			5986730	2500.000 CAL
JP4:7-12			5986730	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.617	4.600	1071288	0.000 CAL
Toluene	8.450	8.433	5531738	0.000 CAL
Ethylbenzene	12.317	12.300	1035809	0.000 CAL
m,p-Xylenes	12.550	12.517	4764144	0.000 CAL
o-Xylene	13.650	13.633	1630937	0.000 CAL
Bromofluorobenzene (PID)	15.333	15.317	21959811	0.000 CAL

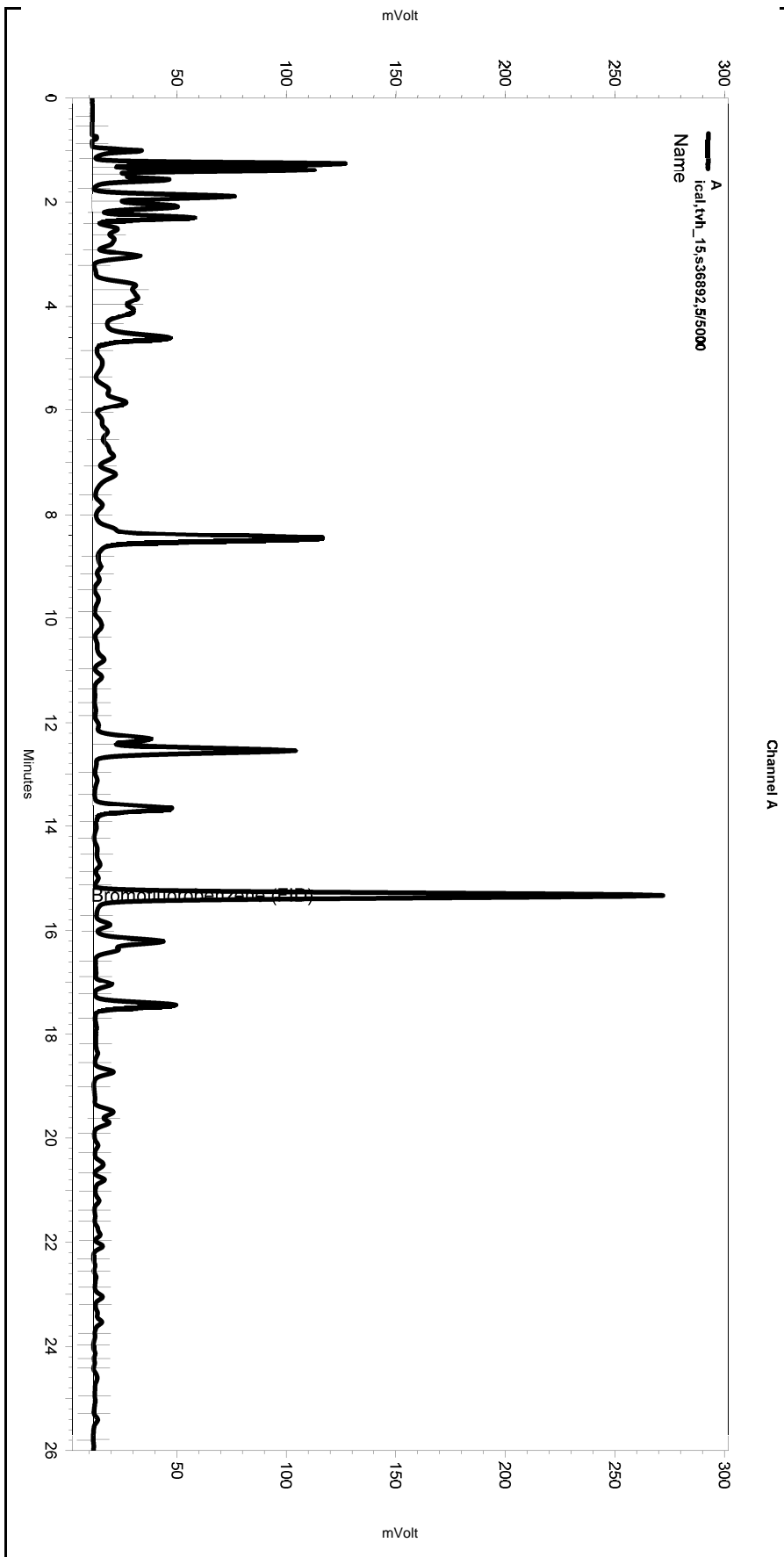
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	1.983	16723	0.000 CAL
Benzene	3.500	3.483	54908	0.000 CAL
Toluene	6.916	6.900	352616	0.000 CAL
Ethylbenzene	10.566	10.549	59699	0.000 CAL
m,p-Xylenes	10.899	10.899	299681	0.000 CAL
o-Xylene	11.766	11.749	104581	0.000 CAL
Bromofluorobenzene (PID)	12.666	12.649	1390662	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_15,s36892,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-009
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 3:43:33 PM
 Analysis Date: 7/11/2018 10:20:16 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

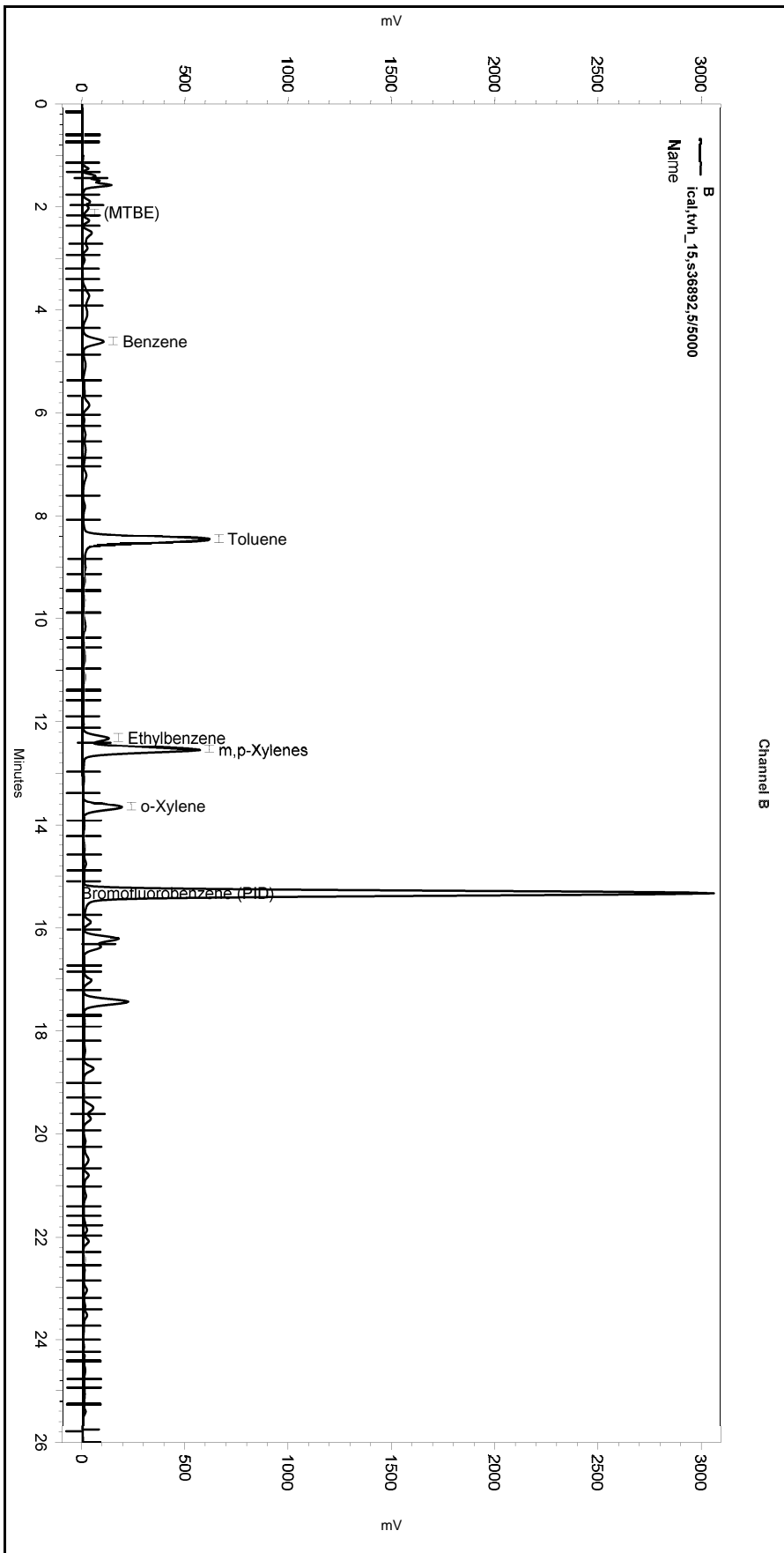
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_15,s36892,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-009
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 3:43:33 PM
 Analysis Date: 7/11/2018 10:20:16 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

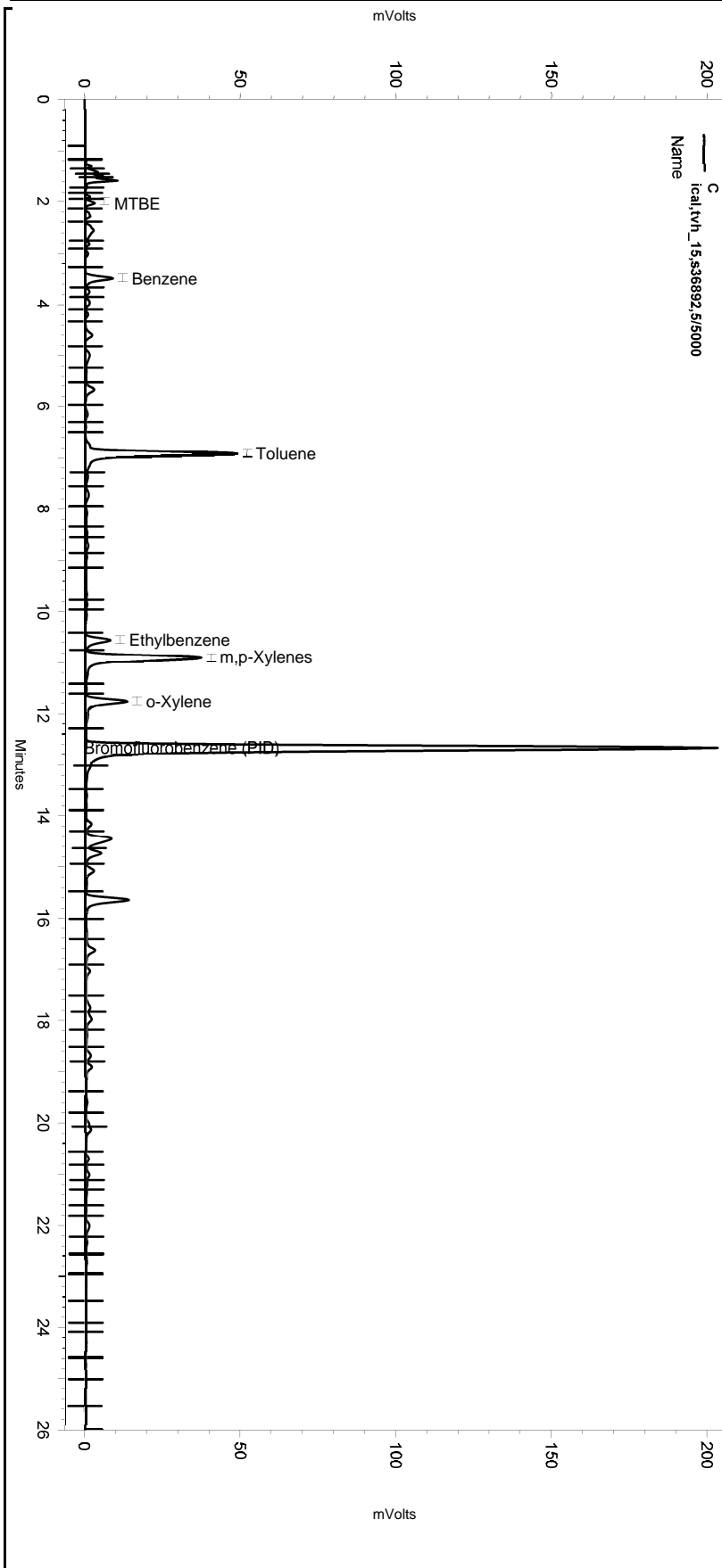
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_15,s36892,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-009
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX191.met

Software Version 3.1.7
 Run Date: 7/10/2018 3:43:33 PM
 Analysis Date: 7/11/2018 10:20:16 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

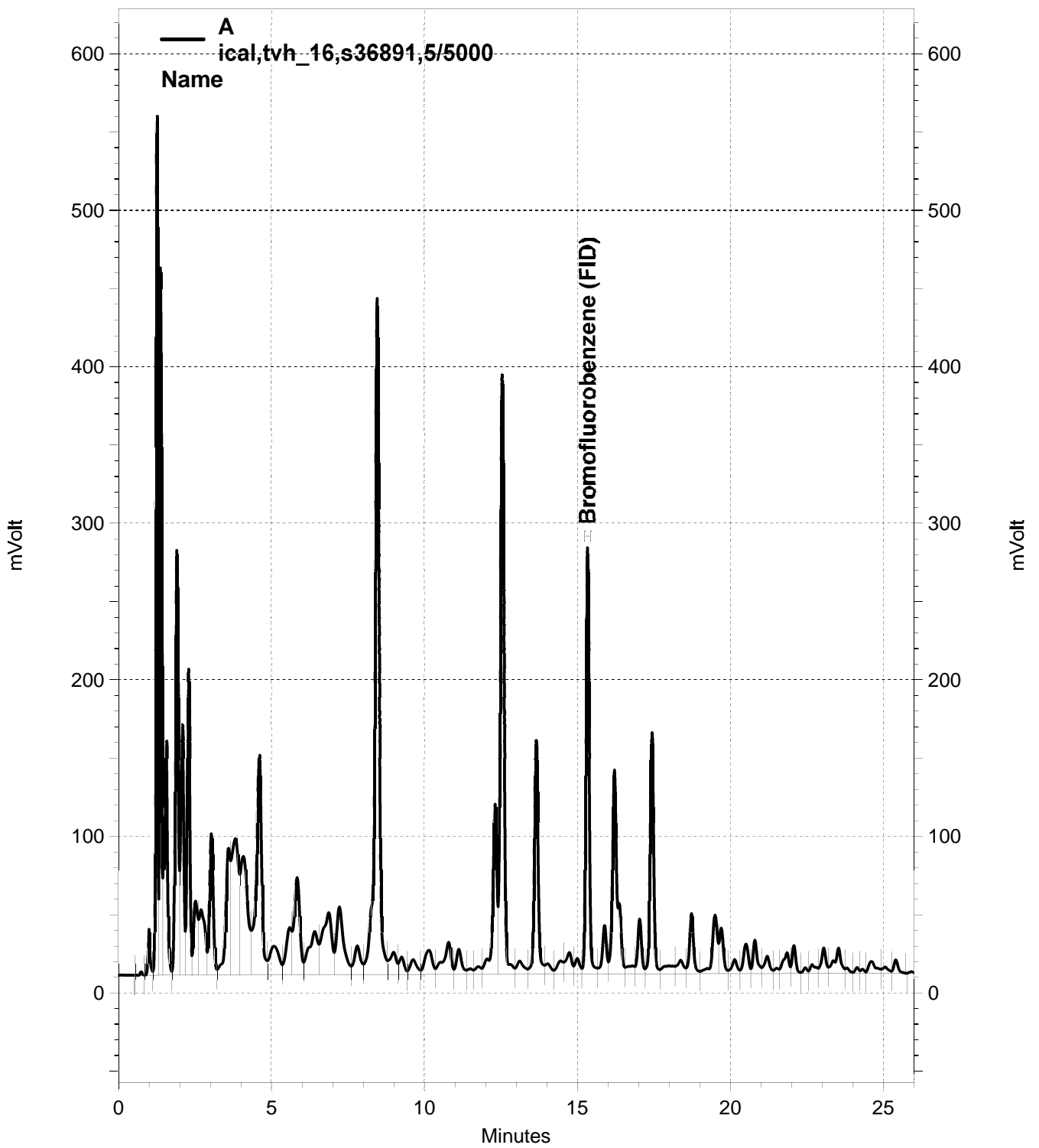
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

Manual Integration Fixes

=====
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\191-010, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_16,s36891,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-010
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 4:21:34 PM
 Analysis Date: 7/11/2018 10:20:27 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1996833	900.000 CAL
GAS:6-10			24617908	10000.000 CAL
GAS:6-12			30429984	10000.000 CAL
GAS:7-12			23861868	10000.000 CAL
JP4:7-12			23861868	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.633	4.600	4373819	0.000 CAL
Toluene	8.467	8.433	22470034	0.000 CAL
Ethylbenzene	12.317	12.300	4510273	0.000 CAL
m,p-Xylenes	12.550	12.517	19178789	0.000 CAL
o-Xylene	13.650	13.633	6707032	0.000 CAL
Bromofluorobenzene (PID)	15.333	15.317	23169133	0.000 CAL

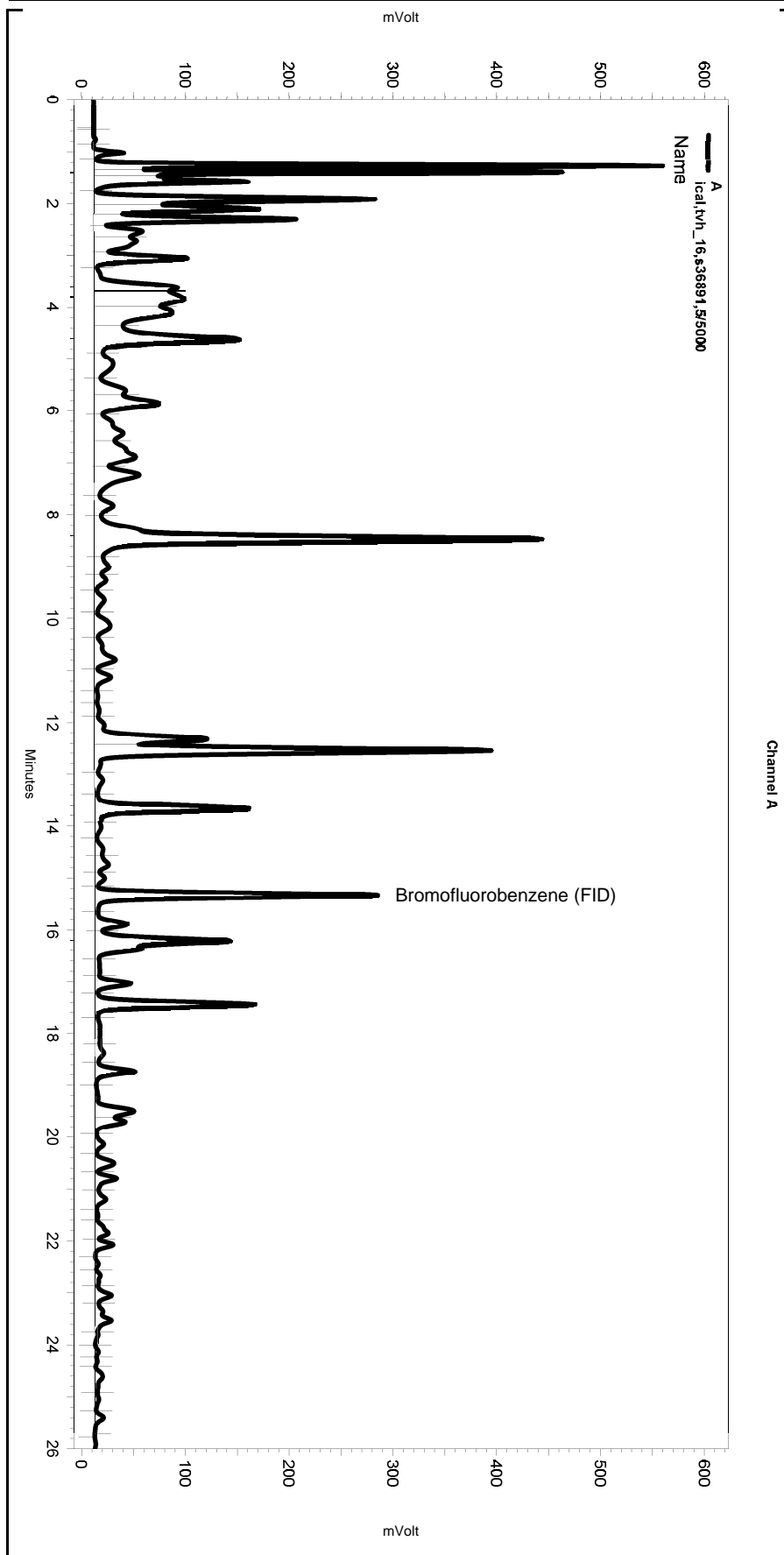
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	1.983	75917	0.000 CAL
Benzene	3.516	3.483	245007	0.000 CAL
Toluene	6.916	6.900	1411288	0.000 CAL
Ethylbenzene	10.549	10.549	268036	0.000 CAL
m,p-Xylenes	10.899	10.899	1230570	0.000 CAL
o-Xylene	11.766	11.749	416815	0.000 CAL
Bromofluorobenzene (PID)	12.666	12.649	1467444	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_16,s36891,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-010
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 4:21:34 PM
 Analysis Date: 7/11/2018 10:20:27 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

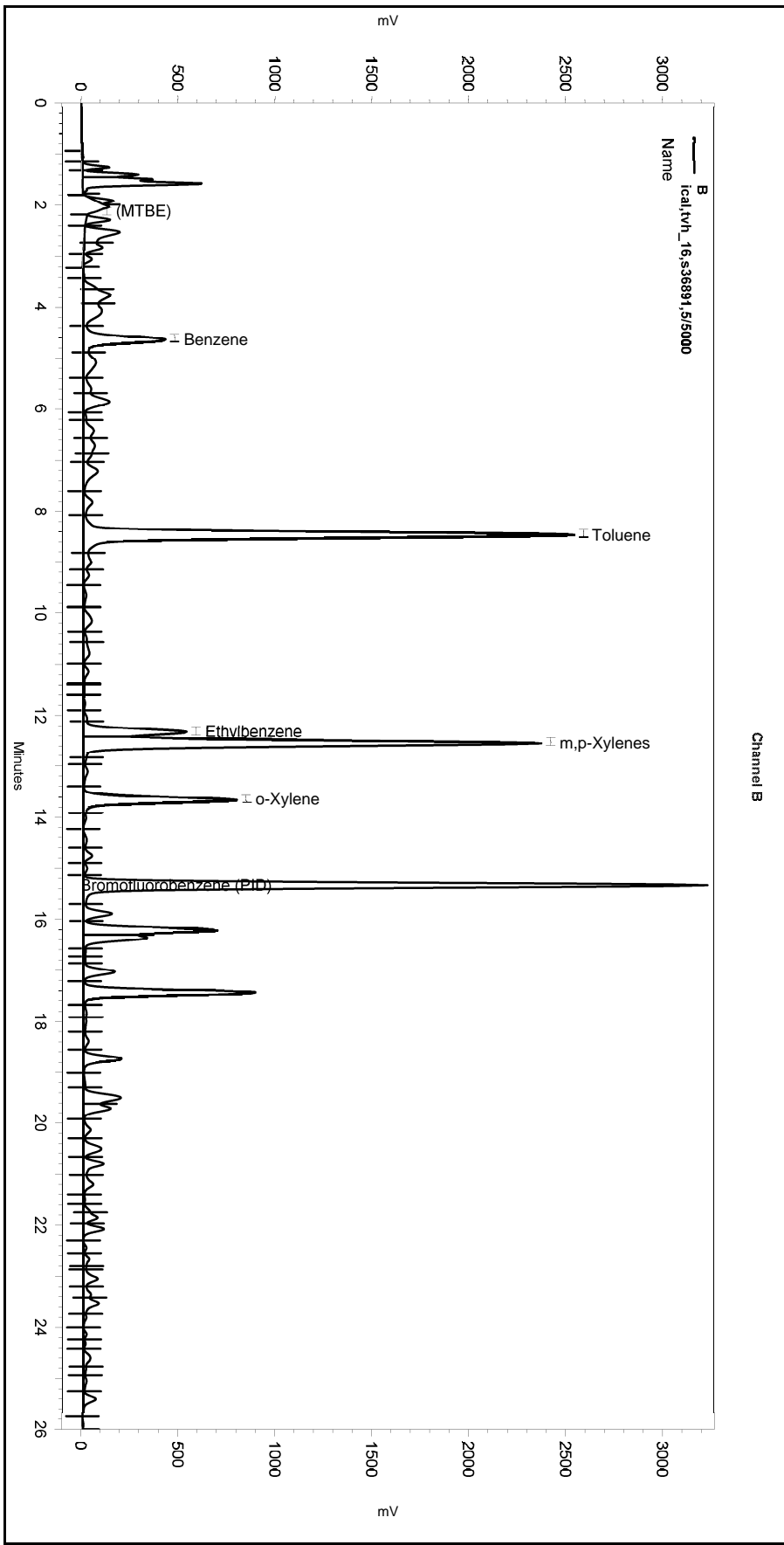
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_16,s36891,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-010
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX191.met

Software Version 3.1.7
 Run Date: 7/10/2018 4:21:34 PM
 Analysis Date: 7/11/2018 10:20:27 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

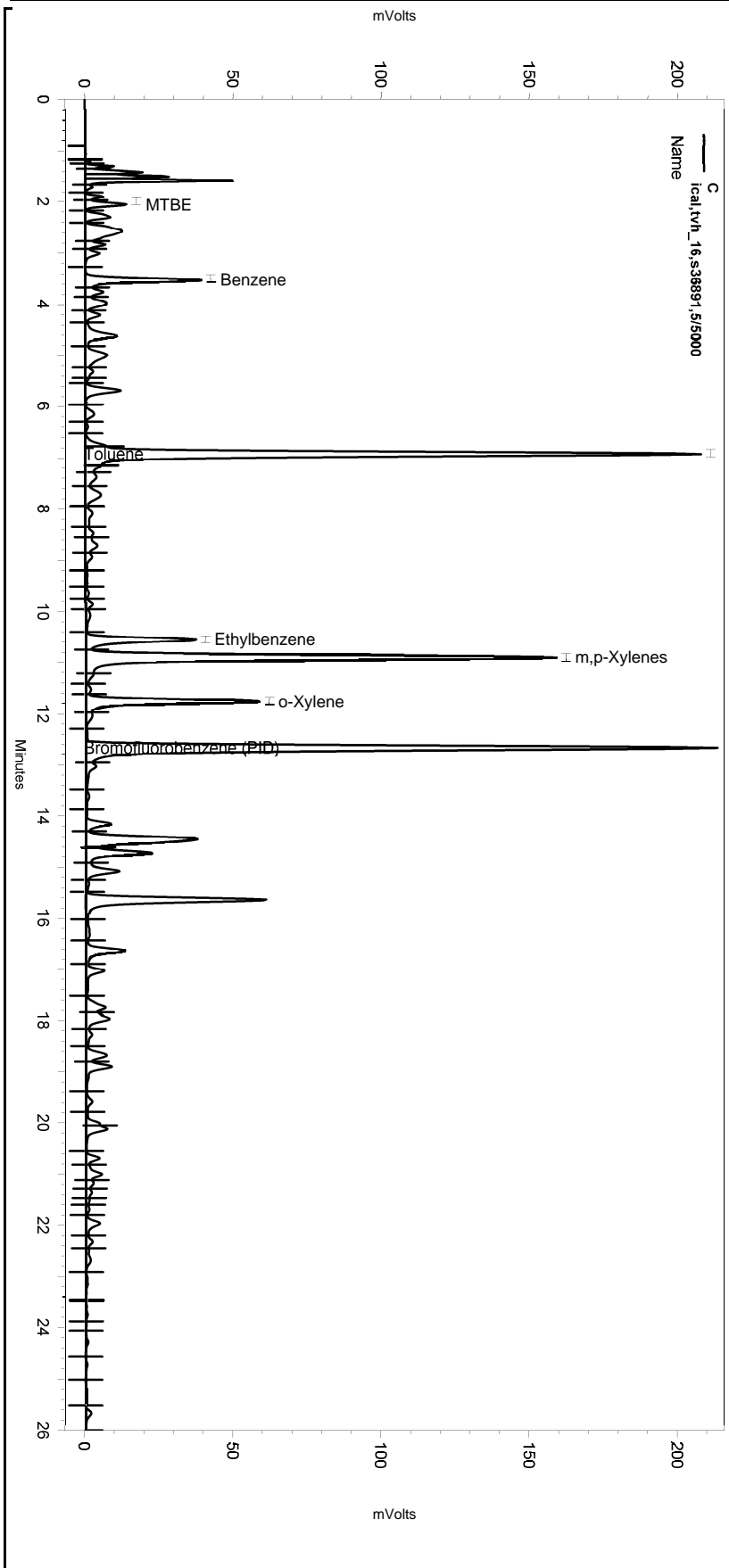
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_16,s36891,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-010
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 4:21:34 PM
 Analysis Date: 7/11/2018 10:20:27 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

 < General Method Parameters >

No items selected for this section

 < C >

No items selected for this section

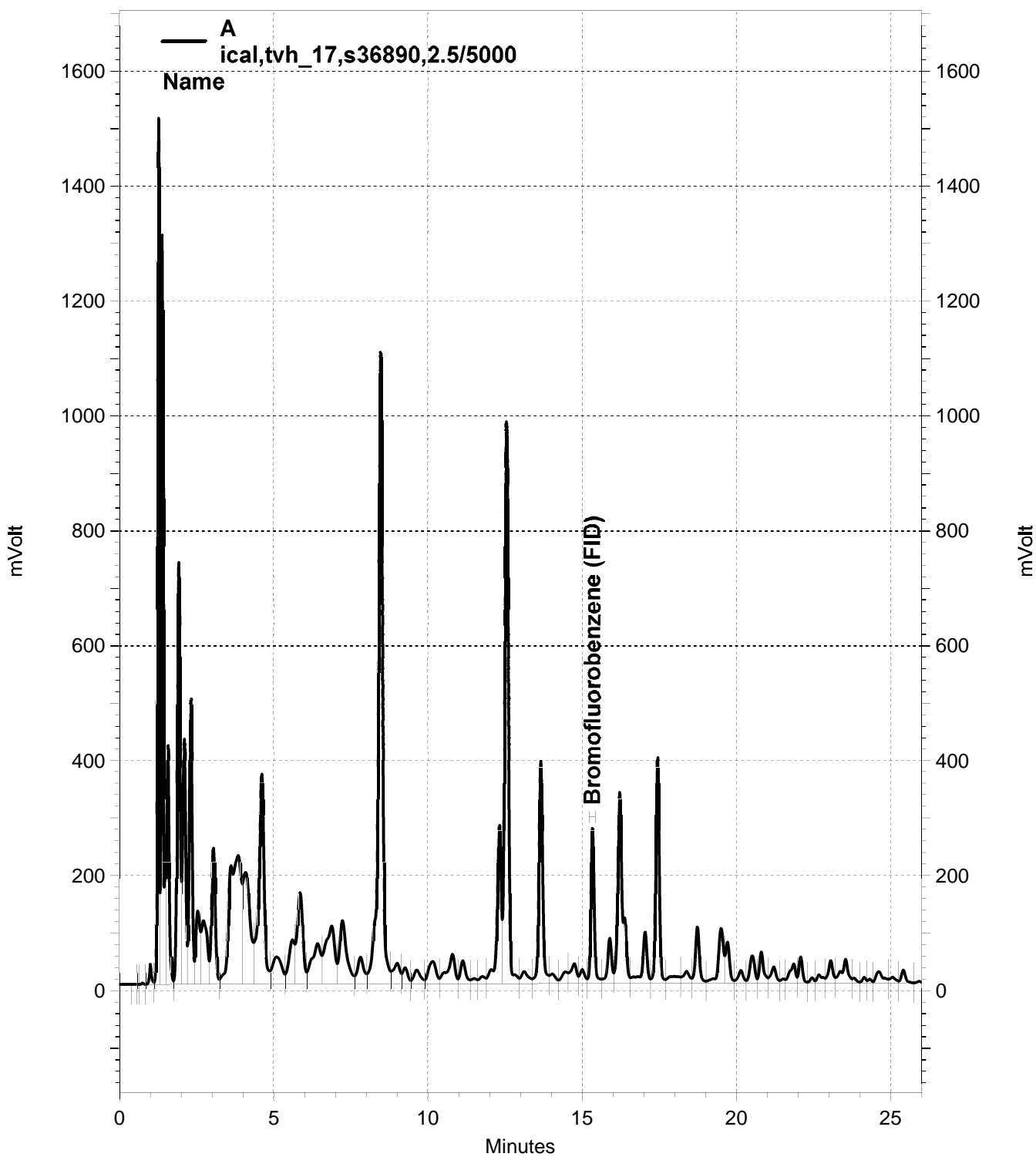
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\191-011, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_17,s36890,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-011
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 5:00:01 PM
 Analysis Date: 7/11/2018 10:20:37 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	2076160	900.000 CAL
GAS:6-10			63033600	25000.000 CAL
GAS:6-12			77532832	25000.000 CAL
GAS:7-12			60433004	25000.000 CAL
JP4:7-12			60433004	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.650	4.600	11407502	0.000 CAL
Toluene	8.467	8.433	57592075	0.000 CAL
Ethylbenzene	12.333	12.300	11364359	0.000 CAL
m,p-Xylenes	12.550	12.517	48949680	0.000 CAL
o-Xylene	13.667	13.633	17156644	0.000 CAL
Bromofluorobenzene (PID)	15.333	15.317	23419004	0.000 CAL

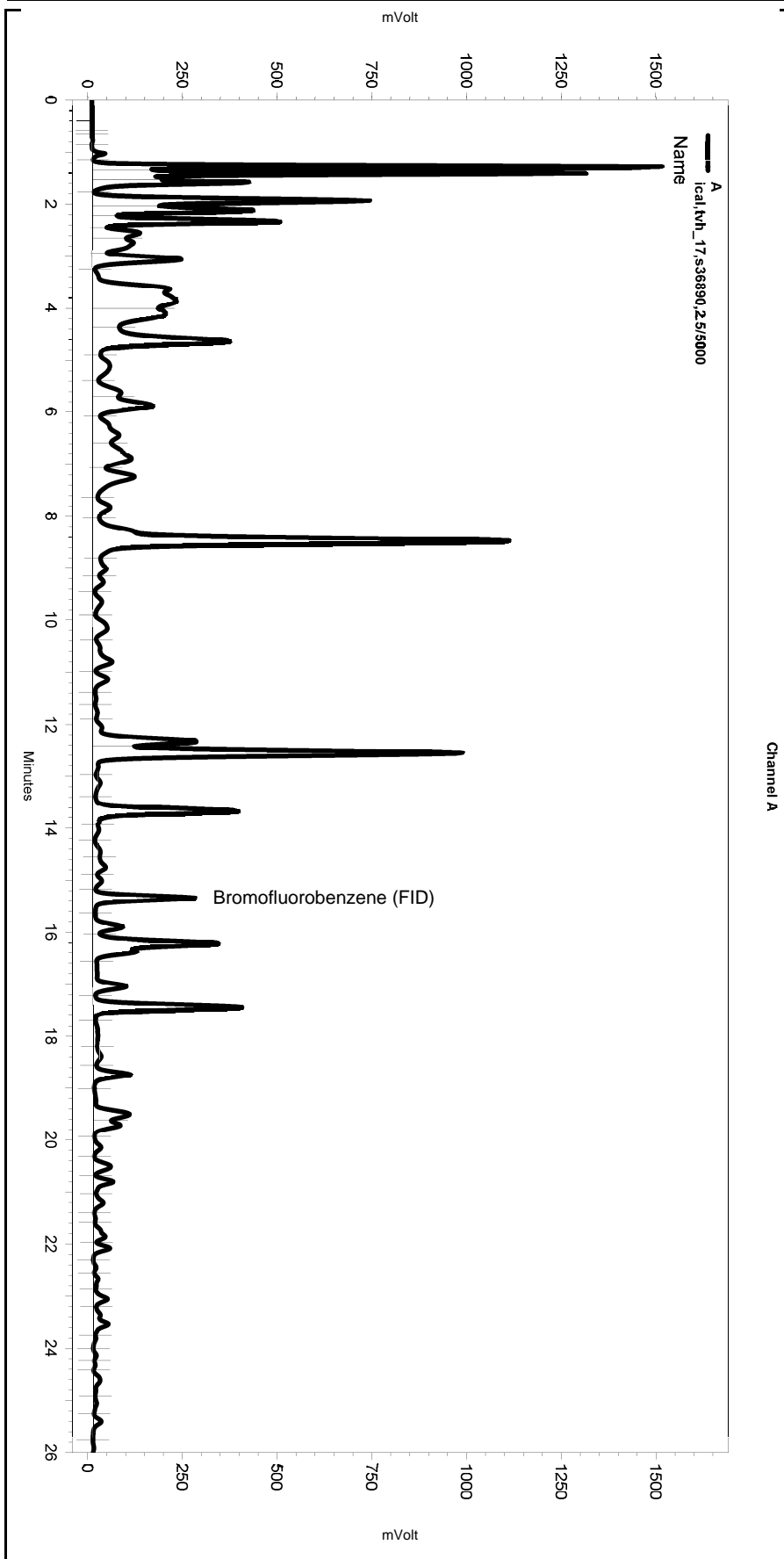
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene	3.516	3.483	655285	0.000 CAL
Toluene	6.916	6.900	3576833	0.000 CAL
Ethylbenzene	10.549	10.549	705924	0.000 CAL
m,p-Xylenes	10.899	10.899	3081078	0.000 CAL
o-Xylene	11.766	11.749	1073859	0.000 CAL
Bromofluorobenzene (PID)	12.666	12.649	1487505	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_17,s36890,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-011
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 5:00:01 PM
 Analysis Date: 7/11/2018 10:20:37 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

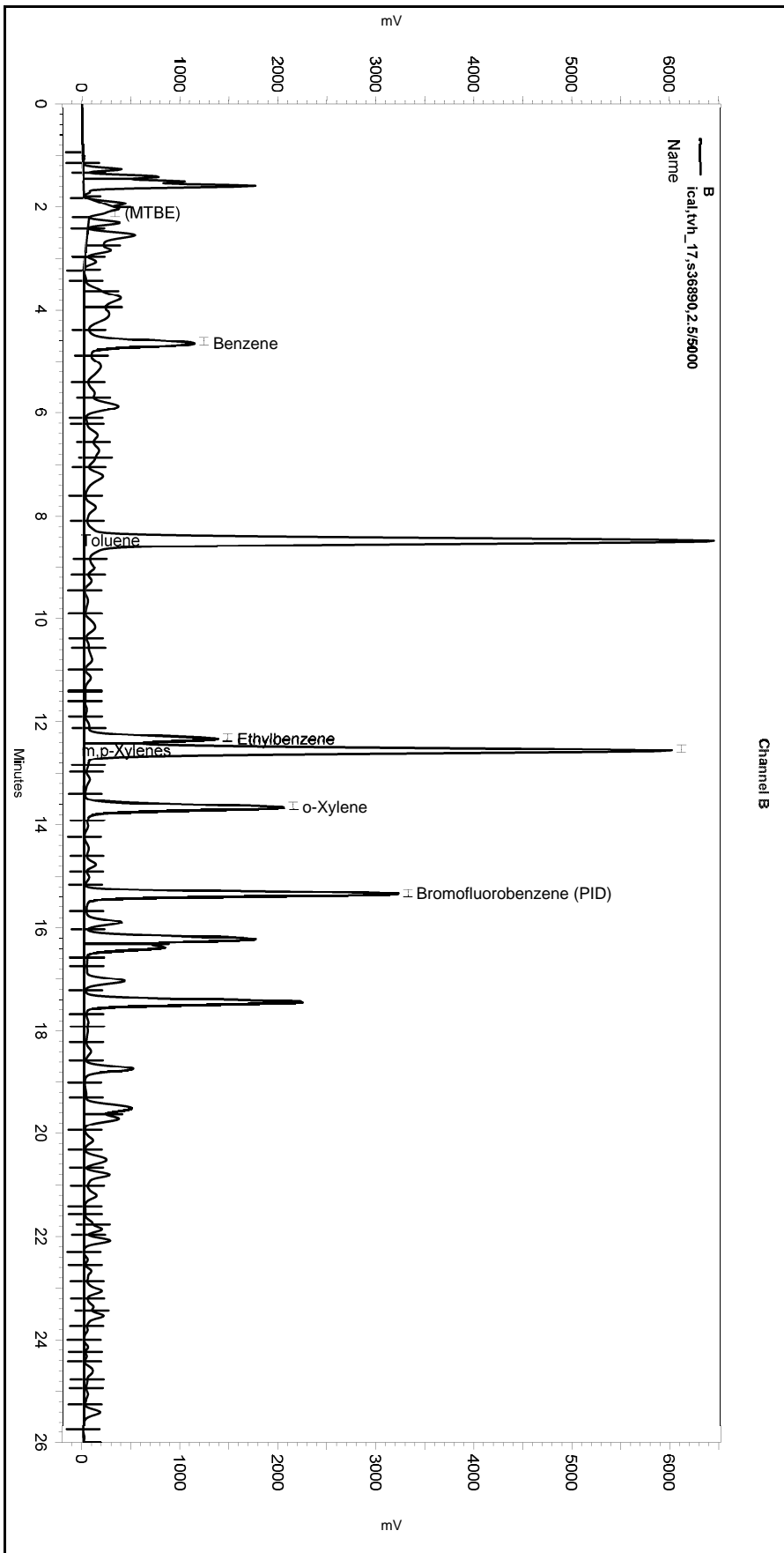
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_17,s36890,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-011
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX191.met

Software Version 3.1.7
 Run Date: 7/10/2018 5:00:01 PM
 Analysis Date: 7/11/2018 10:20:37 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

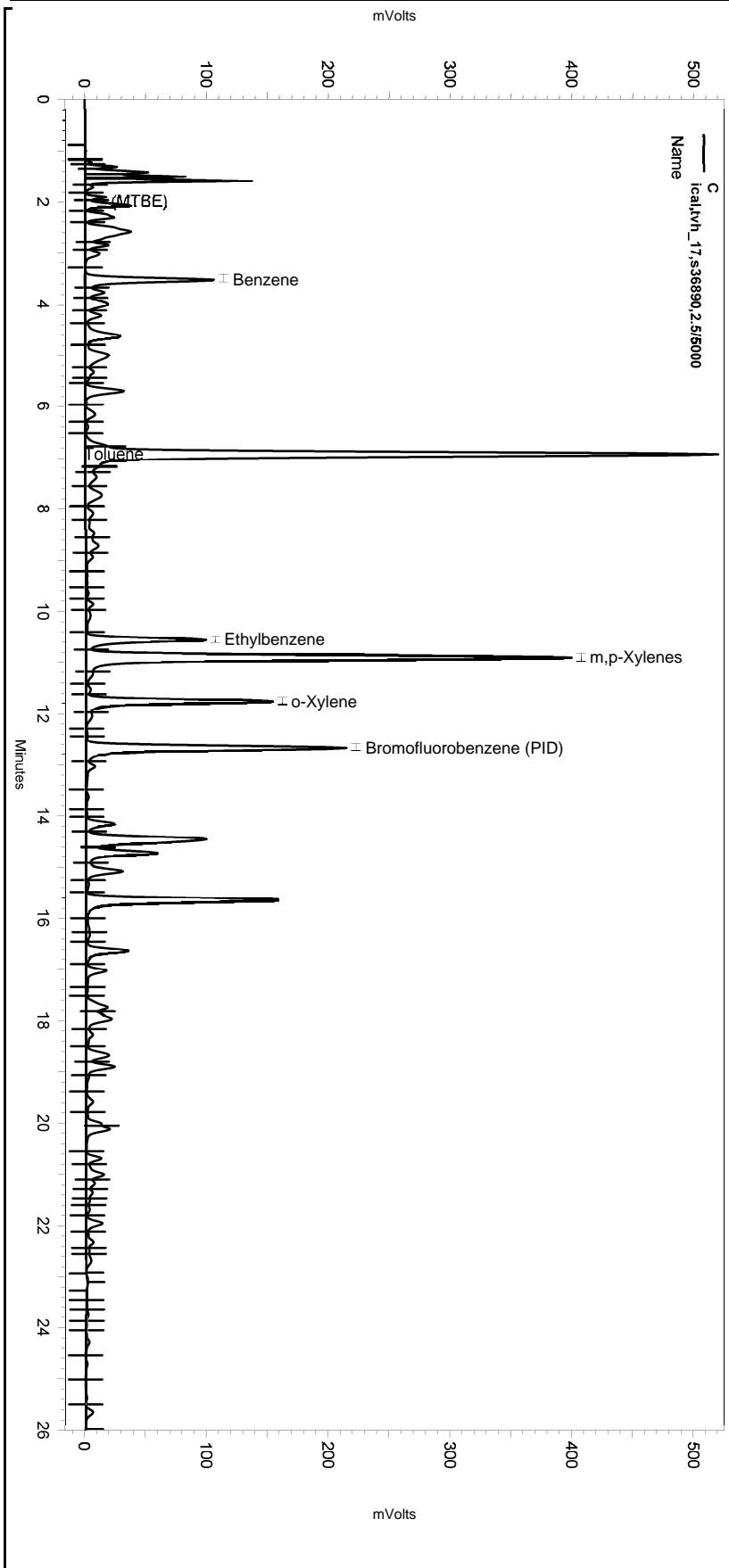
=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_17,s36890,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-011
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 5:00:01 PM
 Analysis Date: 7/11/2018 10:20:37 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

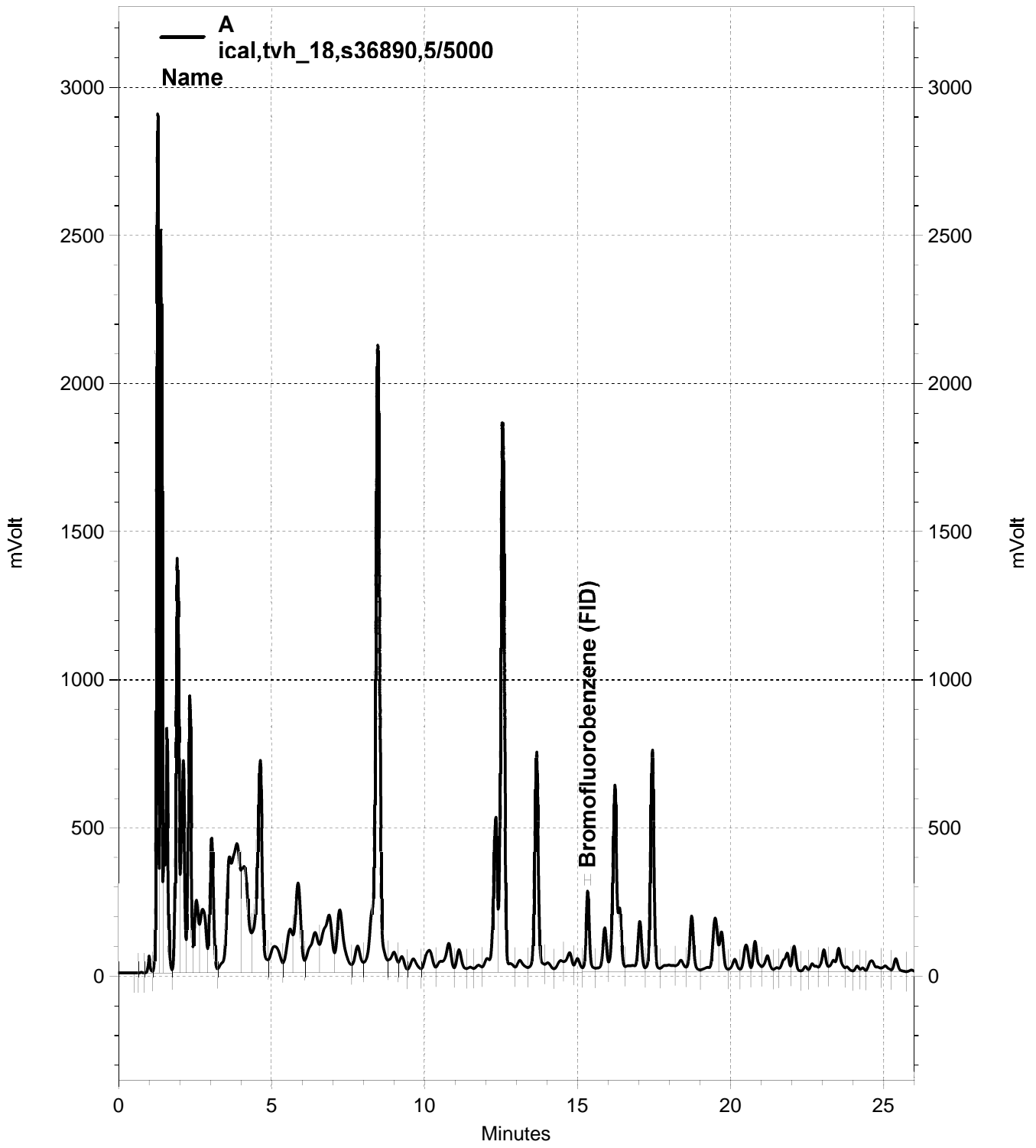
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

Manual Integration Fixes

=====
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\191-012, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_18,s36890,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-012
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 5:38:02 PM
 Analysis Date: 7/11/2018 10:20:48 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	2186230	900.000 CAL
GAS:6-10			120581936	50000.000 CAL
GAS:6-12			148177760	50000.000 CAL
GAS:7-12			115641888	50000.000 CAL
JP4:7-12			115641888	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.650	4.600	22439045	0.000 CAL
Toluene	8.483	8.433	107826817	0.000 CAL
Ethylbenzene	12.333	12.300	21268908	0.000 CAL
m,p-Xylenes	12.550	12.517	90612537	0.000 CAL
o-Xylene	13.667	13.633	32258413	0.000 CAL
Bromofluorobenzene (PID)	15.333	15.317	23187887	0.000 CAL

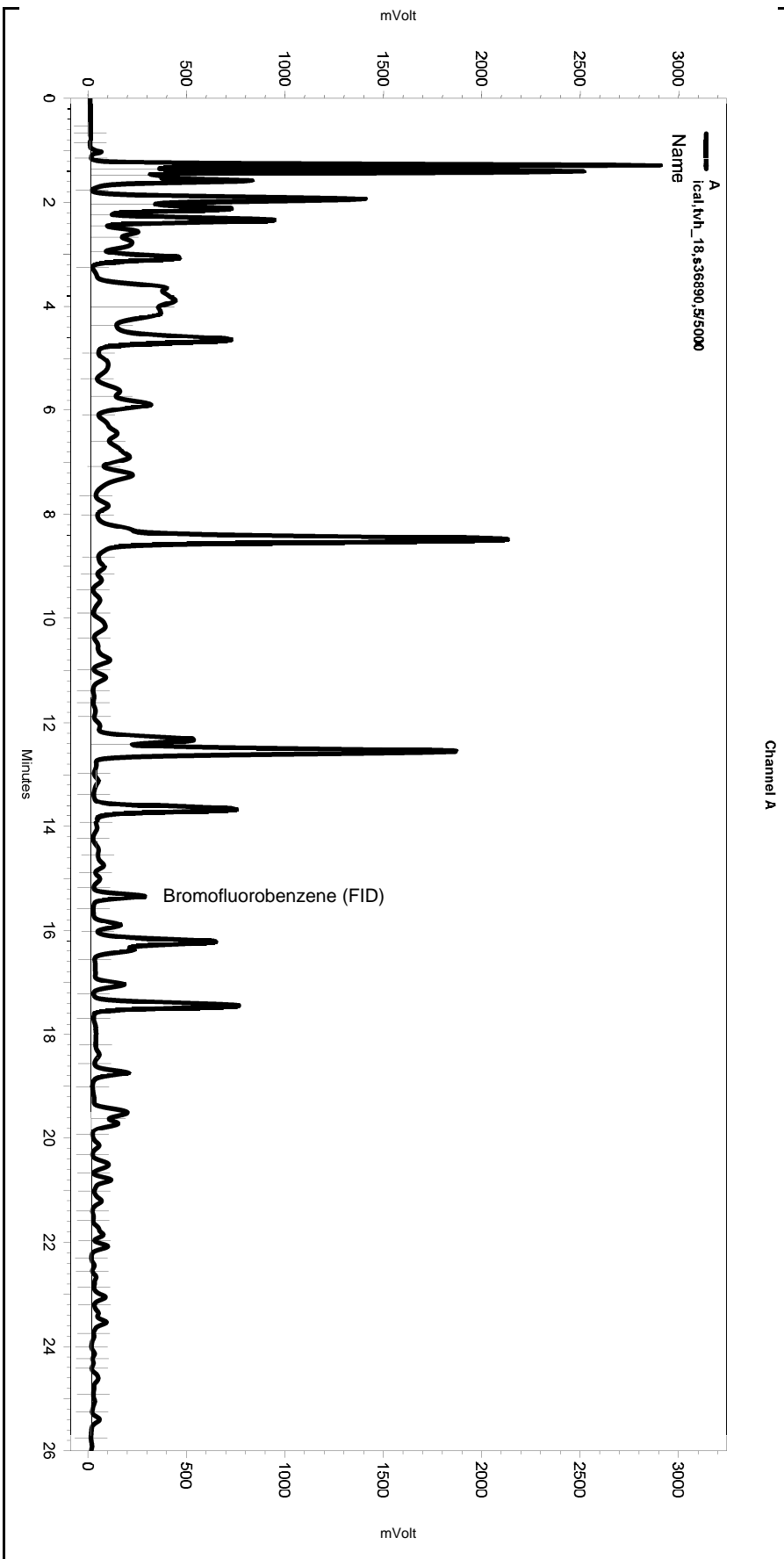
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.917	1.983	140834	0.000 CAL
Benzene	3.533	3.483	1251497	0.000 CAL
Toluene	6.933	6.900	6703846	0.000 CAL
Ethylbenzene	10.549	10.549	1344069	0.000 CAL
m,p-Xylenes	10.916	10.899	5641616	0.000 CAL
o-Xylene	11.766	11.749	2014554	0.000 CAL
Bromofluorobenzene (PID)	12.666	12.649	1522683	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_18,s36890,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-012
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 5:38:02 PM
 Analysis Date: 7/11/2018 10:20:48 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

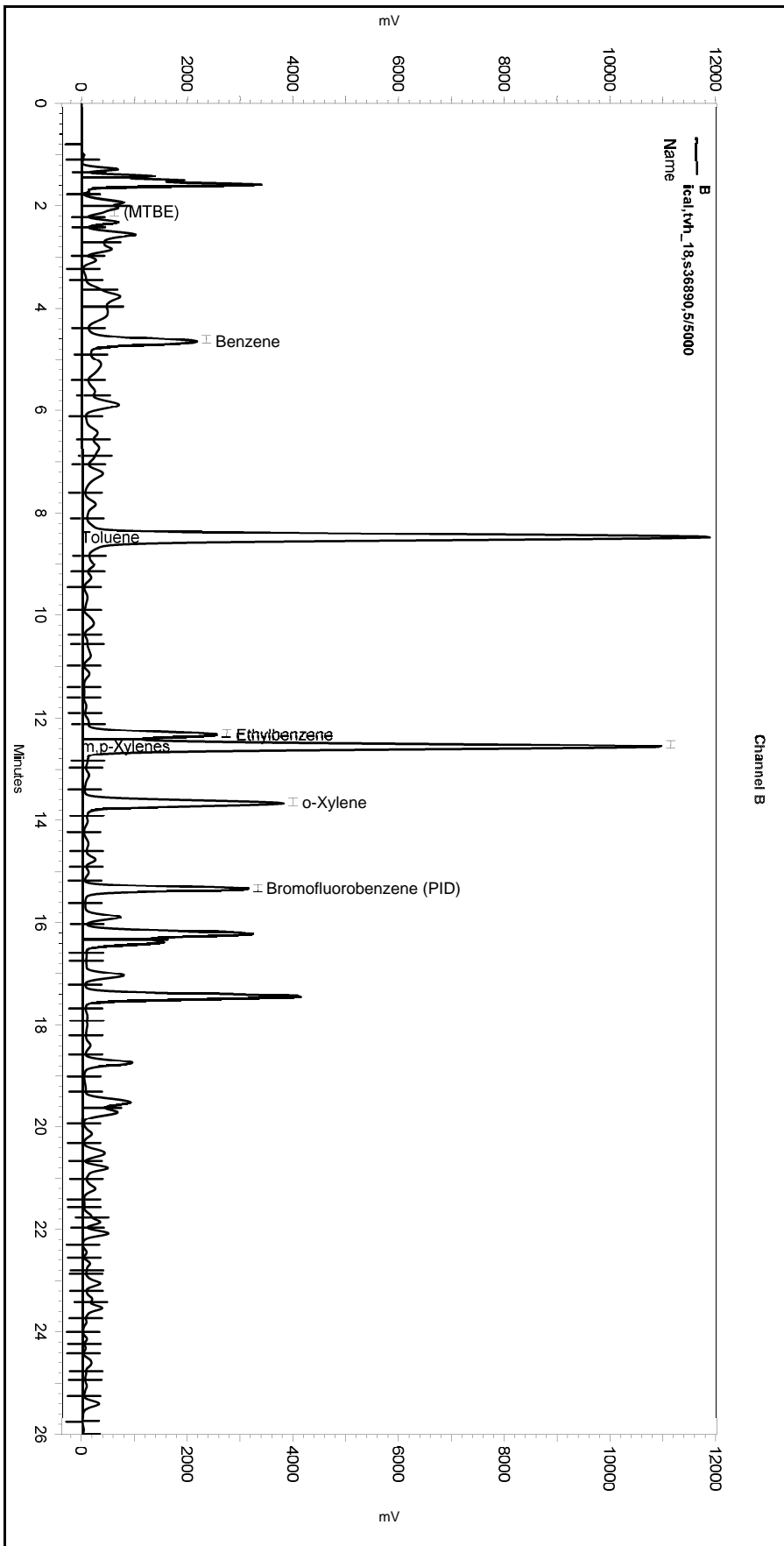
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_18,s36890,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-012
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX191.met

Software Version 3.1.7
 Run Date: 7/10/2018 5:38:02 PM
 Analysis Date: 7/11/2018 10:20:48 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

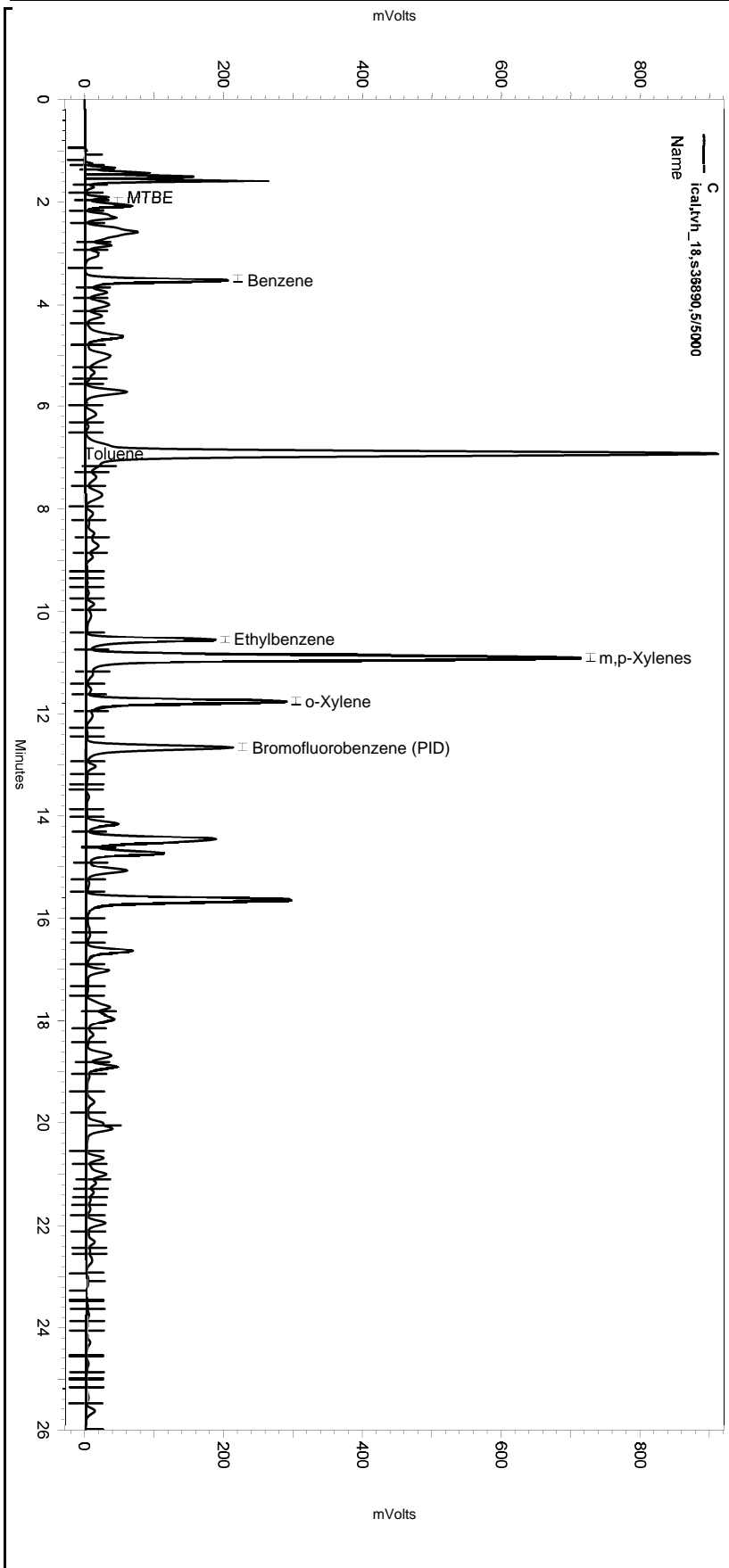
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
 Sample Name: ical,tvh_18,s36890,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-012
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX191.met

Software Version 3.1.7
 Run Date: 7/10/2018 5:38:02 PM
 Analysis Date: 7/11/2018 10:20:48 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

---< General Method Parameters >---

No items selected for this section

---< C >---

No items selected for this section

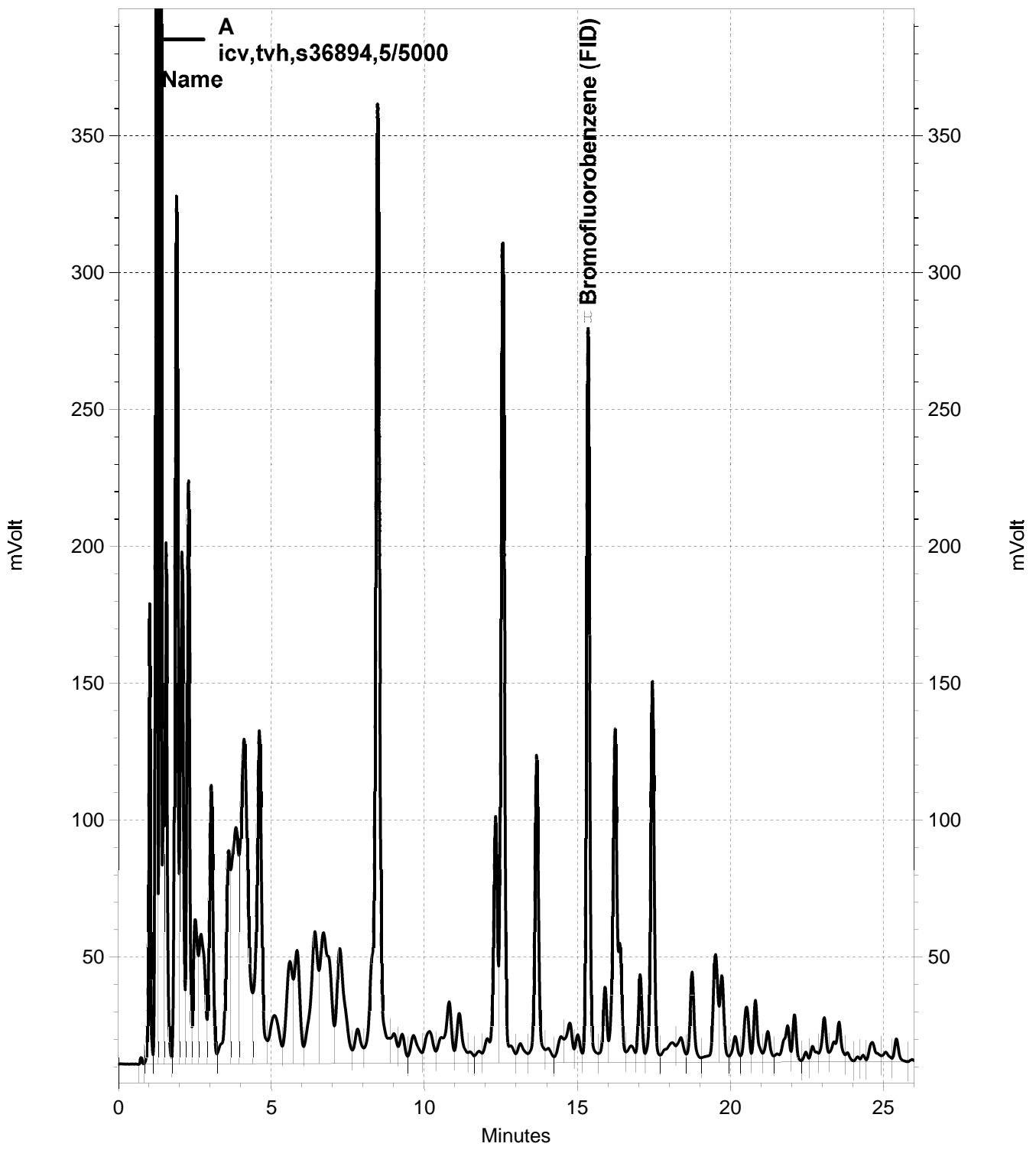
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-017, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
Sample Name: icv,tvh,s36894,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-017
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/11/2018 12:00:41 PM
Analysis Date: 7/11/2018 12:29:25 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1970628	880.648
GAS:6-10			23673420	9348.108
GAS:6-12			29338374	9217.953
GAS:7-12			21799094	8707.595
JP4:7-12			21799094	5814.332

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.633	4.600	3733986	110.760
Toluene	8.467	8.433	18143835	573.786
Ethylbenzene	12.333	12.300	3361111	121.827
m,p-Xylenes	12.567	12.517	15042688	437.272
o-Xylene	13.667	13.633	5016896	178.221
Bromofluorobenzene (PID)	15.350	15.317	22615451	888.094

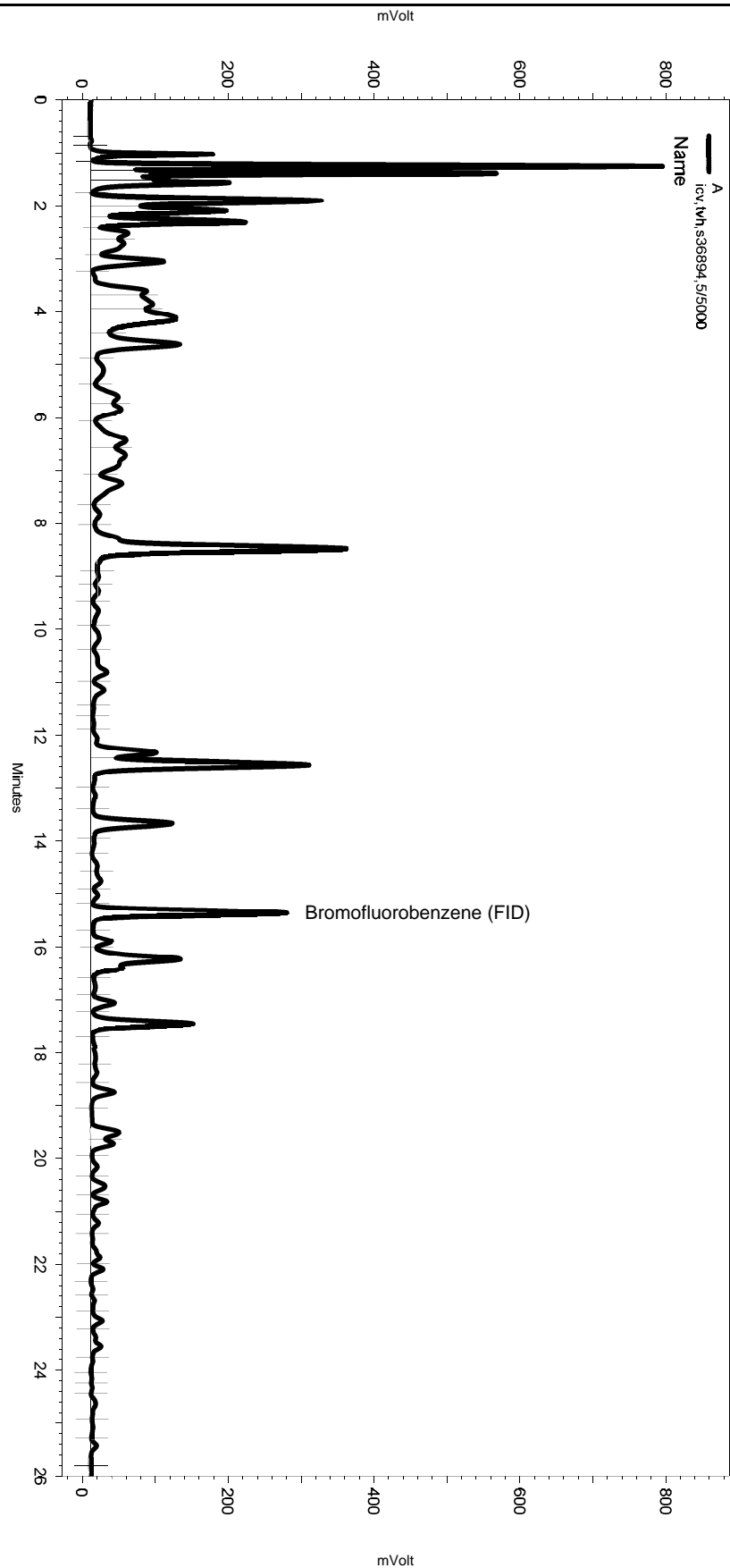
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	1.983	84984	117.938
Benzene	3.500	3.483	230126	106.567
Toluene	6.900	6.900	1204644	607.756
Ethylbenzene	10.549	10.549	230599	141.169
m,p-Xylenes	10.899	10.899	979659	440.870
o-Xylene	11.766	11.749	317302	165.333
Bromofluorobenzene (PID)	12.666	12.649	1453276	838.661

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\191.seq
 Sample Name: icv,tvh,s36894,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-017
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 12:00:41 PM
 Analysis Date: 7/11/2018 12:29:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

=====
 Manual Integration Fixes

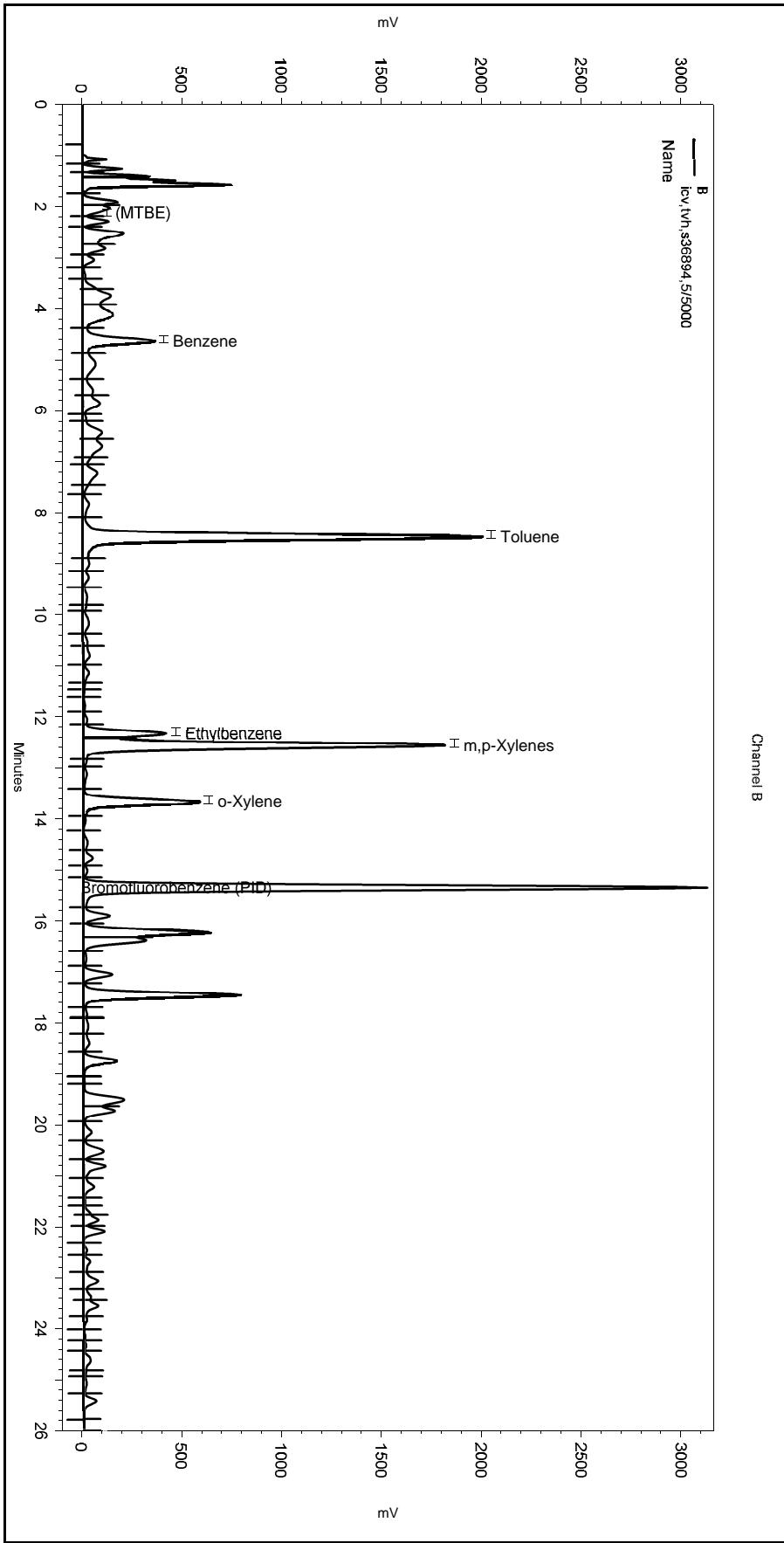
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10049\191-017_65A8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\191.seq
 Sample Name: icv,tvh,s36894,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-017
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 12:00:41 PM
 Analysis Date: 7/11/2018 12:29:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

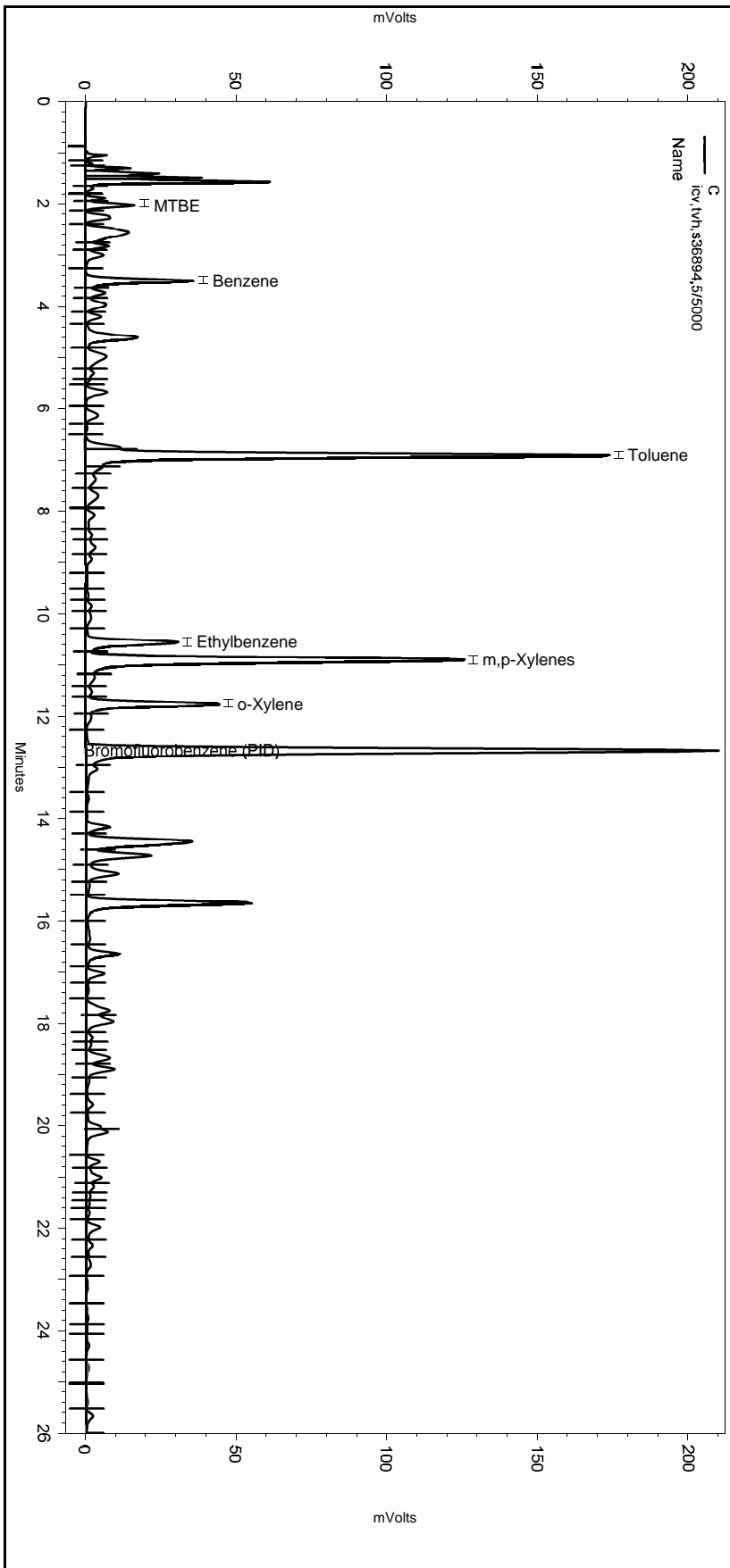
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\191-017_65A8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\191.seq
 Sample Name: icv,tvh,s36894,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-017
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 12:00:41 PM
 Analysis Date: 7/11/2018 12:29:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\191-017_65A8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Carbon Marker Run

Inst : GC07
 Seqnum : 328275574016
 Standards: S36859 (1000X), S37192 (5000X)

File : 191_016

IDF : 1.0
 Time : 10-JUL-2018 20:10

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C6 - n-Hexane	A	2.3	+/- 6s (0.100m)	2.200 - 2.400
C7 - n-Heptane	A	4.6	+/- 6s (0.100m)	4.500 - 4.700
C8 - n-Octane	A	8.283	+/- 6s (0.100m)	8.183 - 8.383
C10 - n-Decane	A	16.1	+/- 6s (0.100m)	16.000 - 16.200
C12 - n-Dodecane	A	23.05	+/- 6s (0.100m)	22.950 - 23.150

Carbon Range	Channel	Range Start	Range Stop
Gasoline C6-C10	A	2.200	16.200
Gasoline C6-C12	A	2.200	23.150
Gasoline C7-C12	A	4.500	23.150
JP-4 C7-C12	A	4.500	23.150

EZChrom method retention times successfully validated.

Analyst: CJN

Date: 07/11/18

Reviewer: TKM

Date: 07/11/18

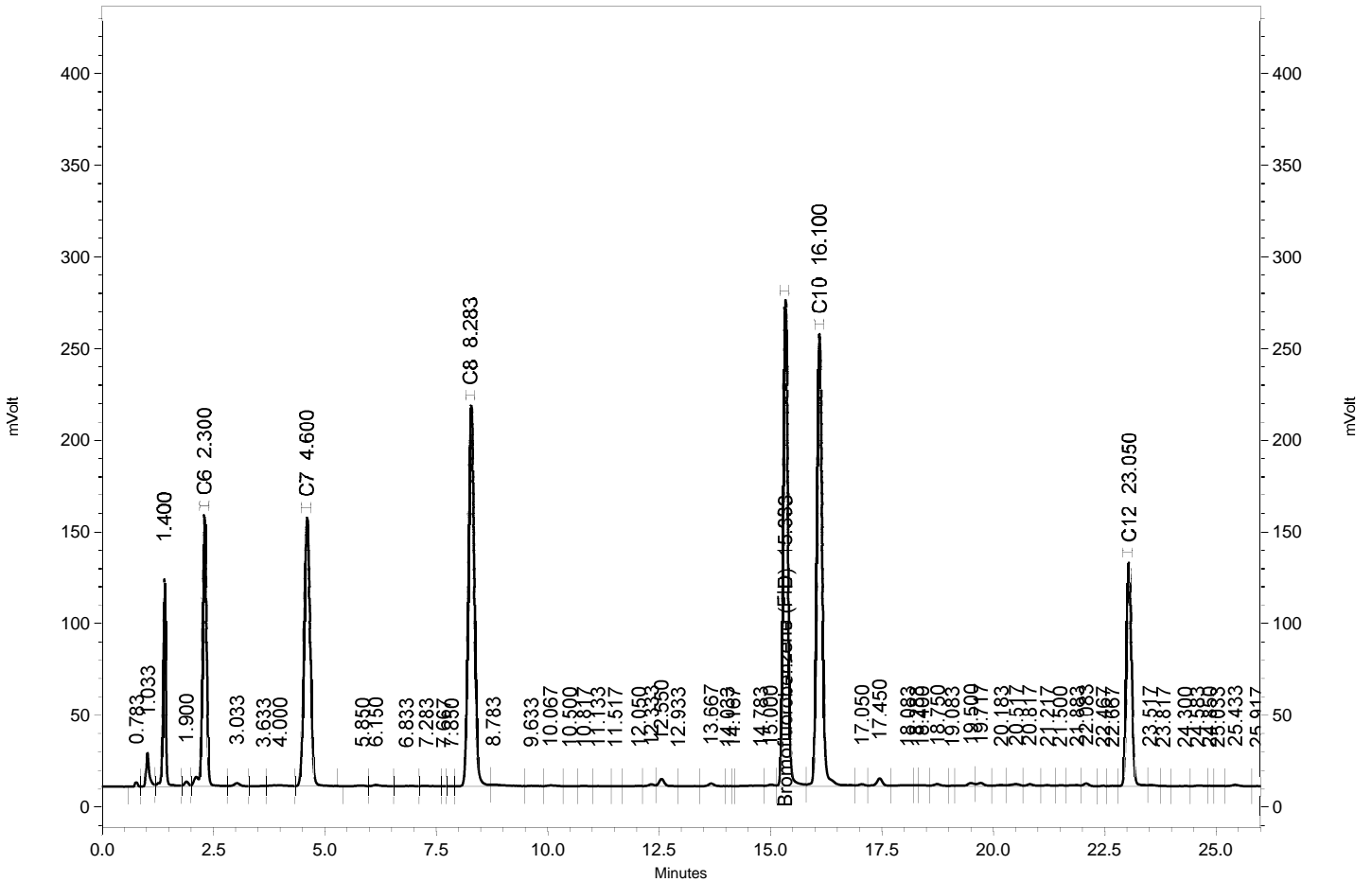
GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
C6	2.300	2.300	946262	0.000
C7	4.600	4.583	1391329	0.000
C8	8.283	8.267	1922713	0.000
Bromofluorobenzene (FID)	15.333	15.317	1929345	0.000
C10	16.100	16.083	2060073	0.000
C12	23.050	23.017	957751	0.000



Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\191.seq
Sample Name: cmarker,s36859,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-016
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/10/2018 8:10:44 PM
Analysis Date: 7/10/2018 8:39:28 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.317	1929345	862.199
GAS:6-10			6538369	2581.856
GAS:6-12			7742674	2432.704
GAS:7-12			6764133	2701.916
JP4:7-12			6764133	1804.154

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.117	125845	10.919
Benzene	4.600	4.600	698400	20.716
Toluene		8.433		0.000 BDL
Ethylbenzene	12.333	12.300	38409	1.392
m,p-Xylenes	12.550	12.517	190119	5.527
o-Xylene	13.667	13.633	62533	2.221
Bromofluorobenzene (PID)	15.333	15.317	21846820	857.910

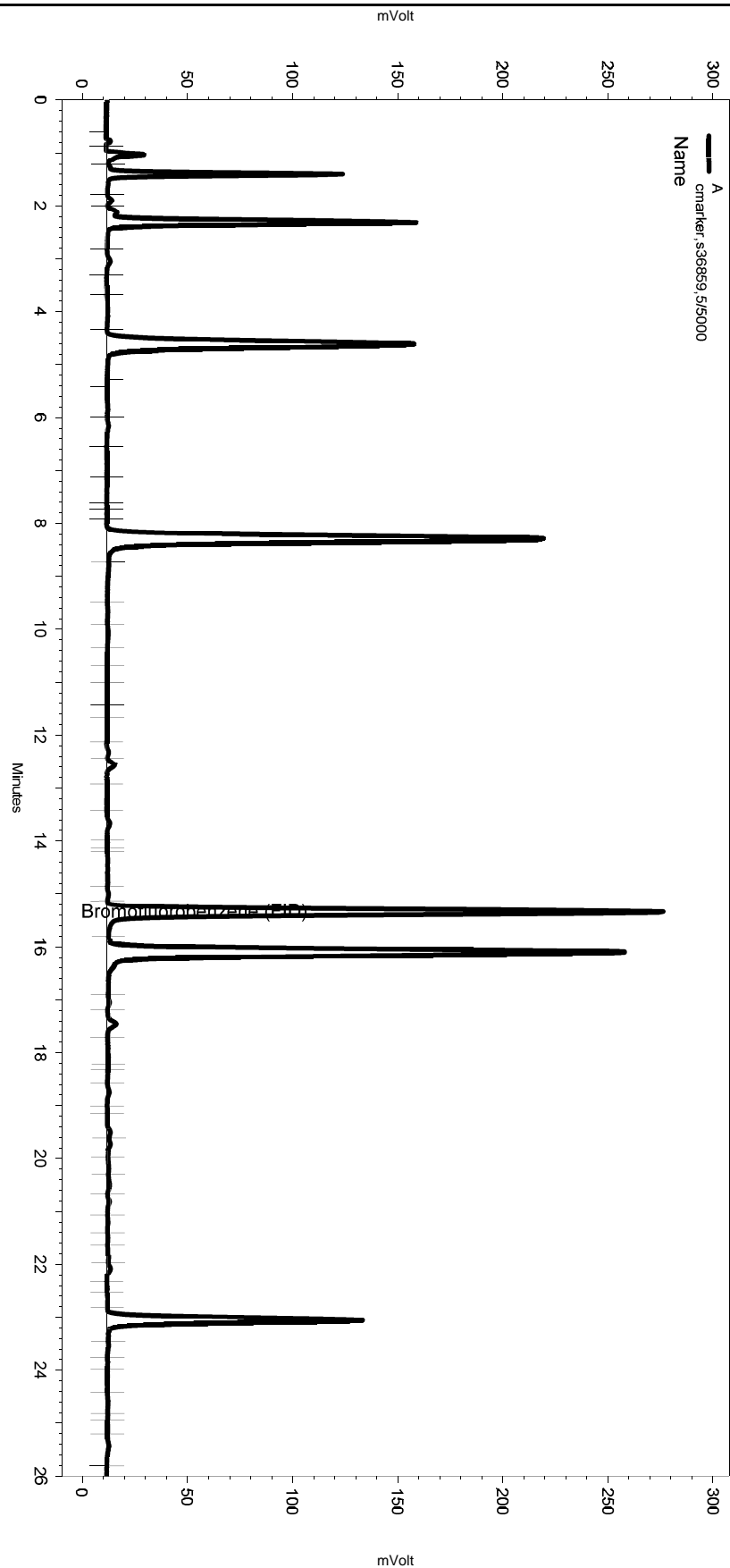
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	7375	10.235
Benzene	3.483	3.483	524	0.243
Toluene	6.916	6.900	4037	2.037
Ethylbenzene	10.566	10.549	1756	1.075
m,p-Xylenes	10.916	10.899	10315	4.642
o-Xylene	11.766	11.749	3476	1.811
Bromofluorobenzene (PID)	12.649	12.649	1428618	824.431

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\191.seq
 Sample Name: cmarker,s36859,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-016
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 8:10:44 PM
 Analysis Date: 7/10/2018 8:39:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

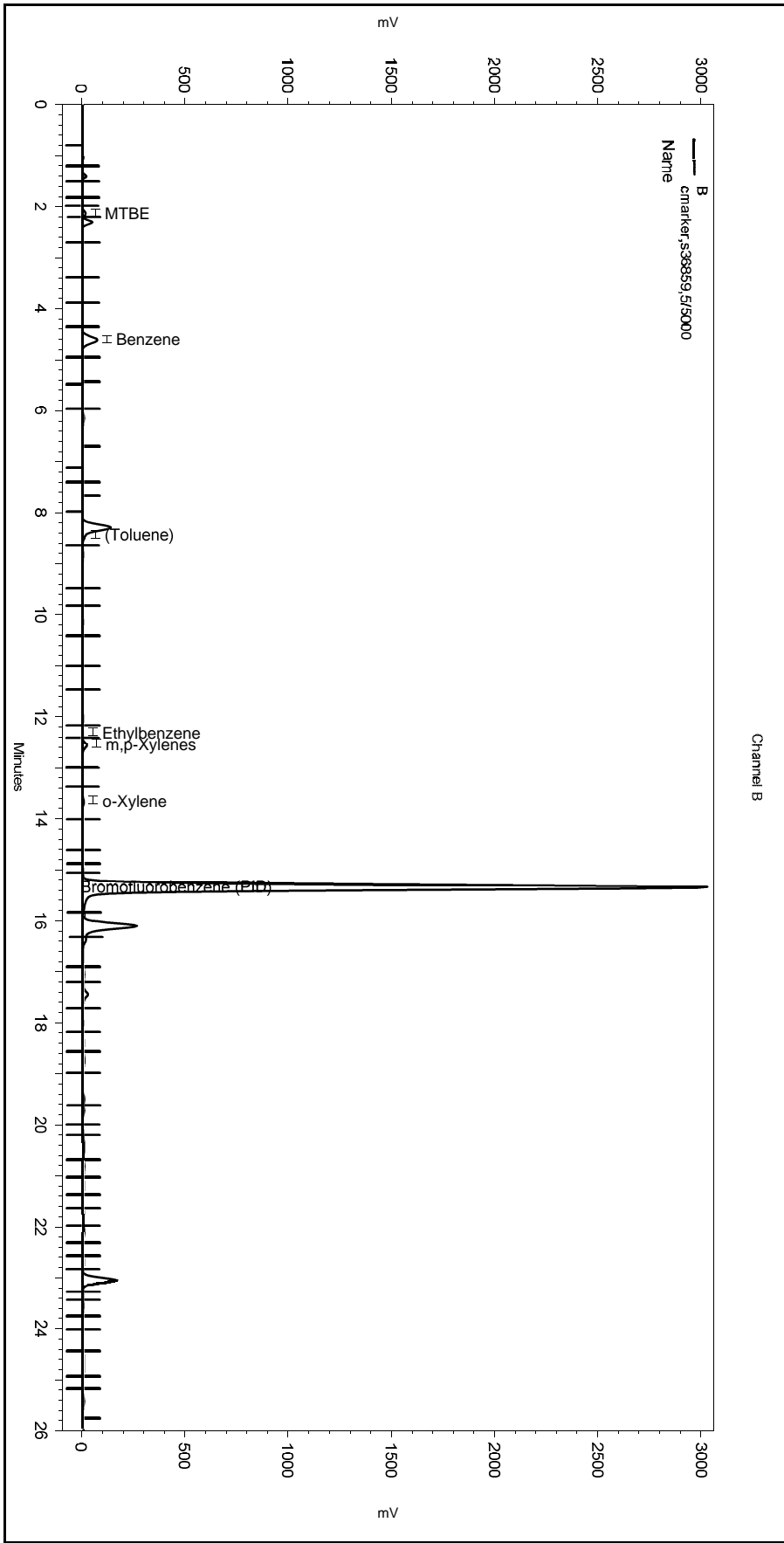
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\191-016_65A6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\191.seq
 Sample Name: cmarker,s36859,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-016
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 8:10:44 PM
 Analysis Date: 7/10/2018 8:39:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

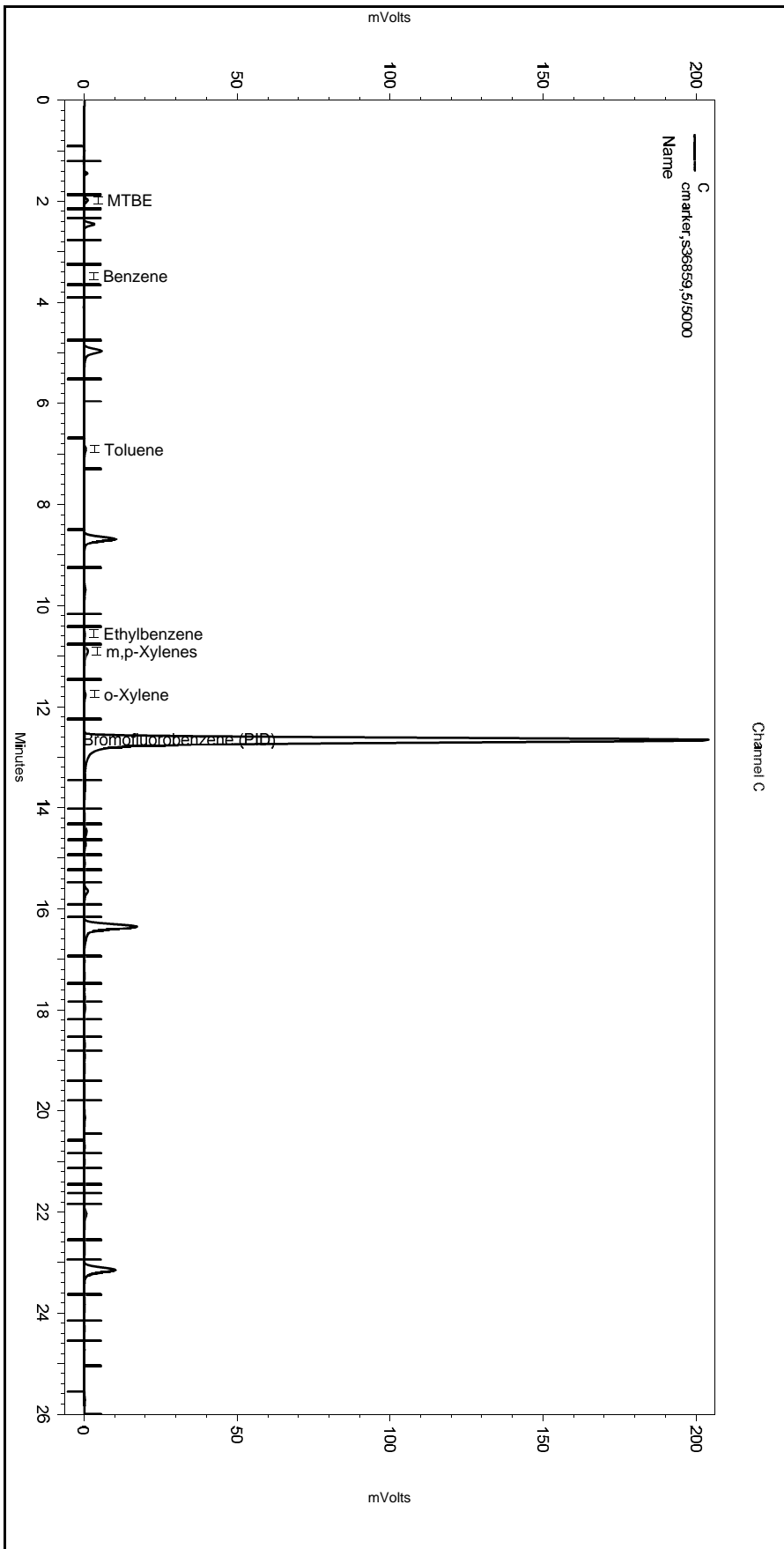
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10049\191-016_65A6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\191.seq
 Sample Name: cmarker,s36859,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\191-016
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/10/2018 8:10:44 PM
 Analysis Date: 7/10/2018 8:39:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\191-016_65A6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

Continuing Calibration Verification Raw Data

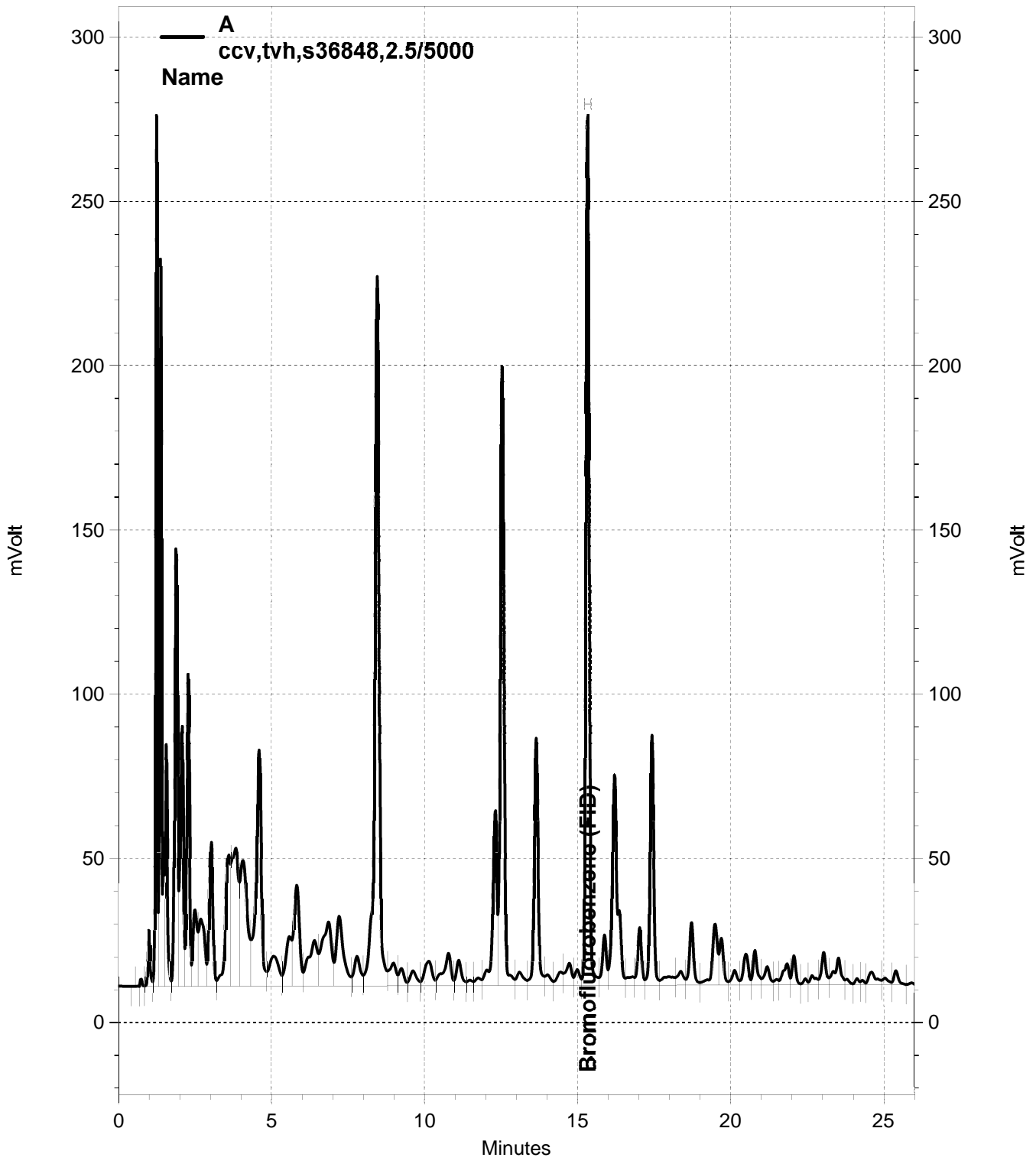
ENTHALPY SPIKE USER REPORT FOR 301314 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC939287 IDF : 1.0
 Seqnum : 328277310002.7 File : 192_002 Time : 11-JUL-2018 14:28
 Cal : 328275574001 Caldate : 10-JUL-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2503.5	2367.5	5000	4729	ng	-5	15	u
Bromofluorobenzene (FID)	A	2237.7	2167.2	900.0	871.6	ng	-3	15	u

Analyst: JM2 Date: 07/13/18 Reviewer: EAH Date: 07/13/18

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-002, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\192.seq
Sample Name: ccv,tvh,s36848,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-002
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/11/2018 2:28:22 PM
Analysis Date: 7/11/2018 2:57:01 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1950451	871.631
GAS:6-10			12904731	5095.791
GAS:6-12			15062377	4732.513
GAS:7-12			11837639	4728.516
JP4:7-12			11837639	3157.377

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.617	4.600	2239220	66.421
Toluene	8.450	8.433	11235907	355.328
Ethylbenzene	12.317	12.300	2173465	78.780
m,p-Xylenes	12.533	12.517	9501290	276.190
o-Xylene	13.650	13.633	3362501	119.450
Bromofluorobenzene (PID)	15.317	15.317	22660400	889.859

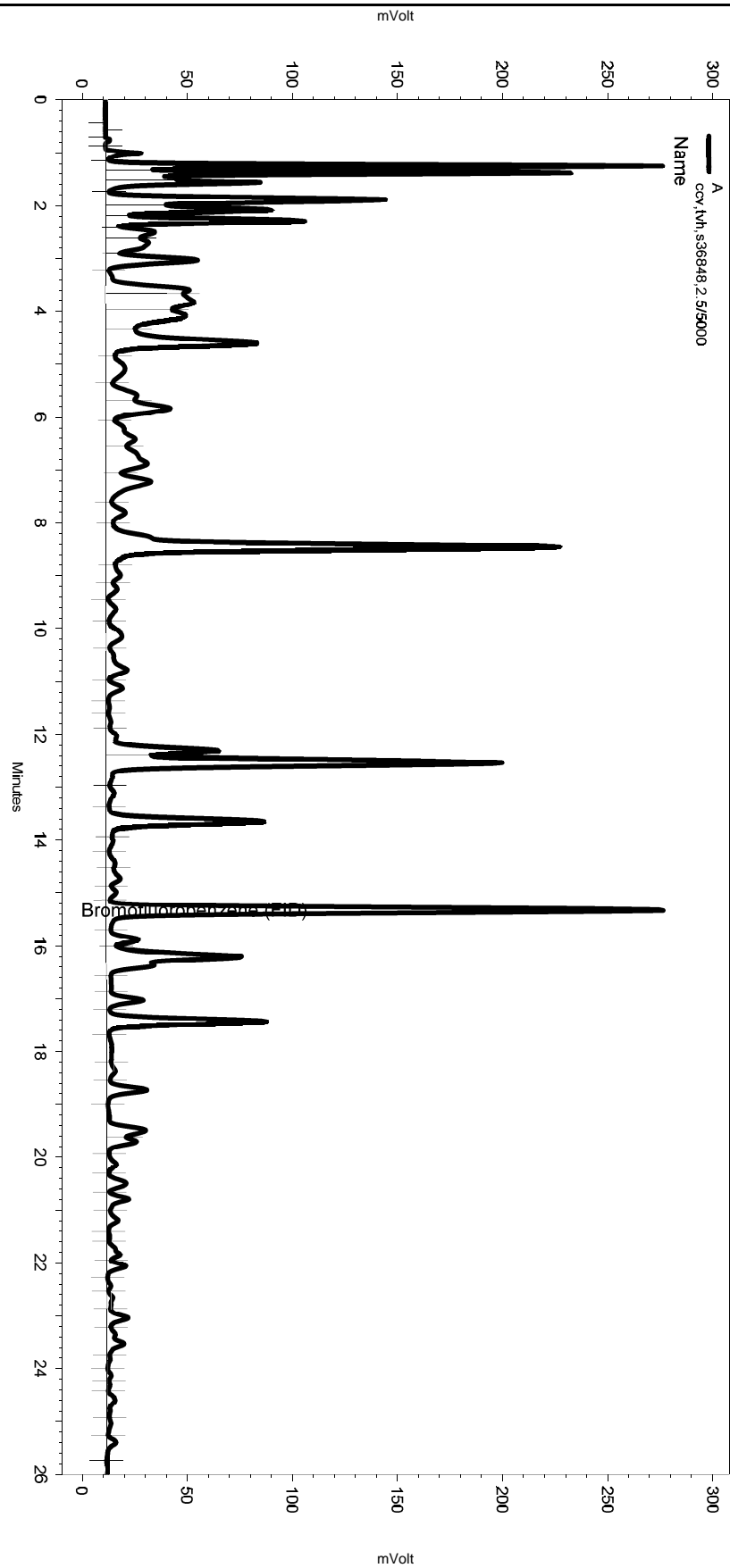
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	1.983	35901	49.822
Benzene	3.500	3.483	117570	54.444
Toluene	6.900	6.900	714153	360.298
Ethylbenzene	10.549	10.549	126681	77.552
m,p-Xylenes	10.899	10.899	614155	276.385
o-Xylene	11.749	11.749	218722	113.967
Bromofluorobenzene (PID)	12.666	12.649	1427326	823.685

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,tvh,s36848,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-002
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 2:28:22 PM
 Analysis Date: 7/11/2018 2:57:01 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

=====
 Manual Integration Fixes

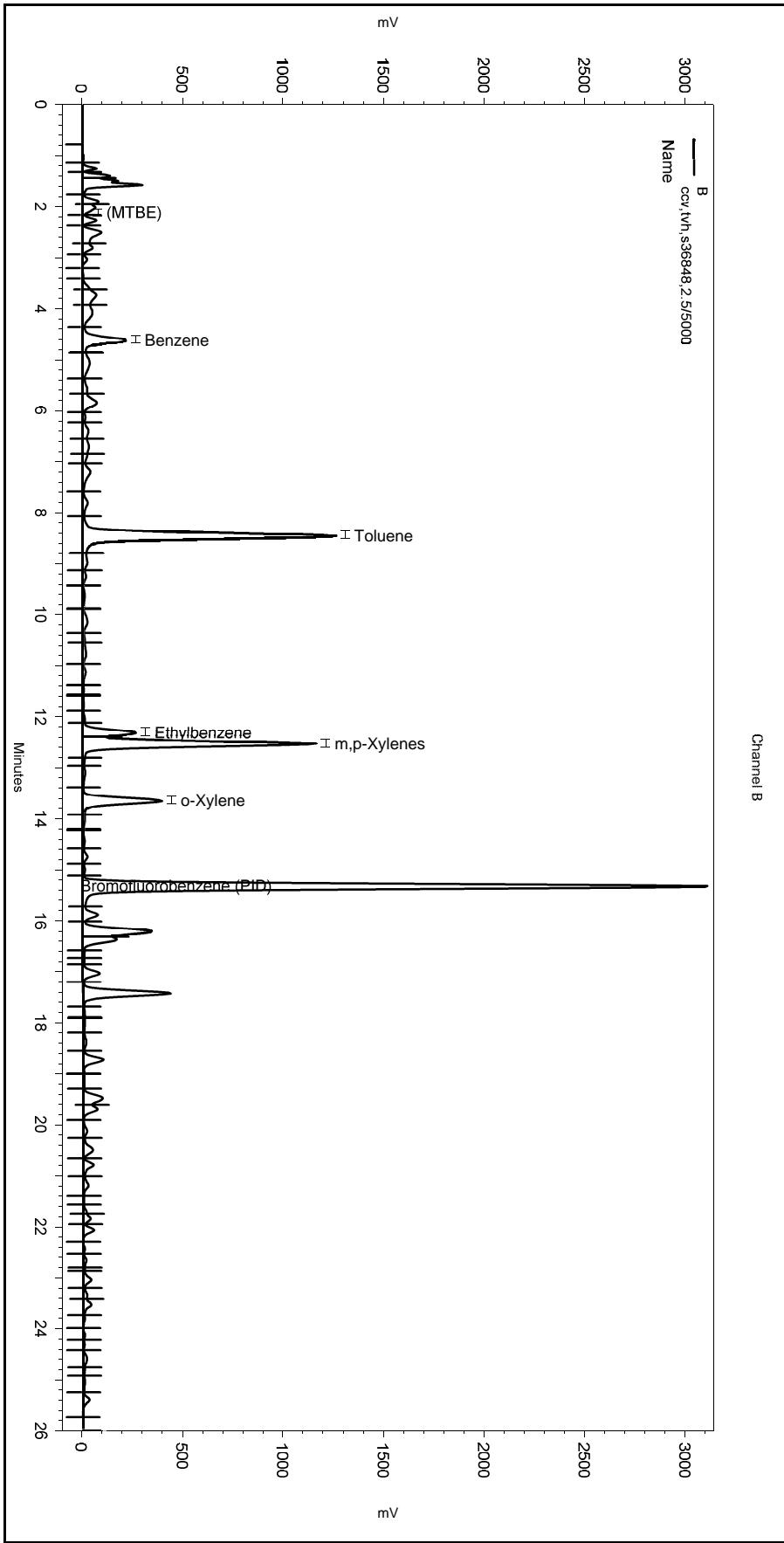
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\192-002_65AA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,tvh,s36848,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-002
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 2:28:22 PM
 Analysis Date: 7/11/2018 2:57:01 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

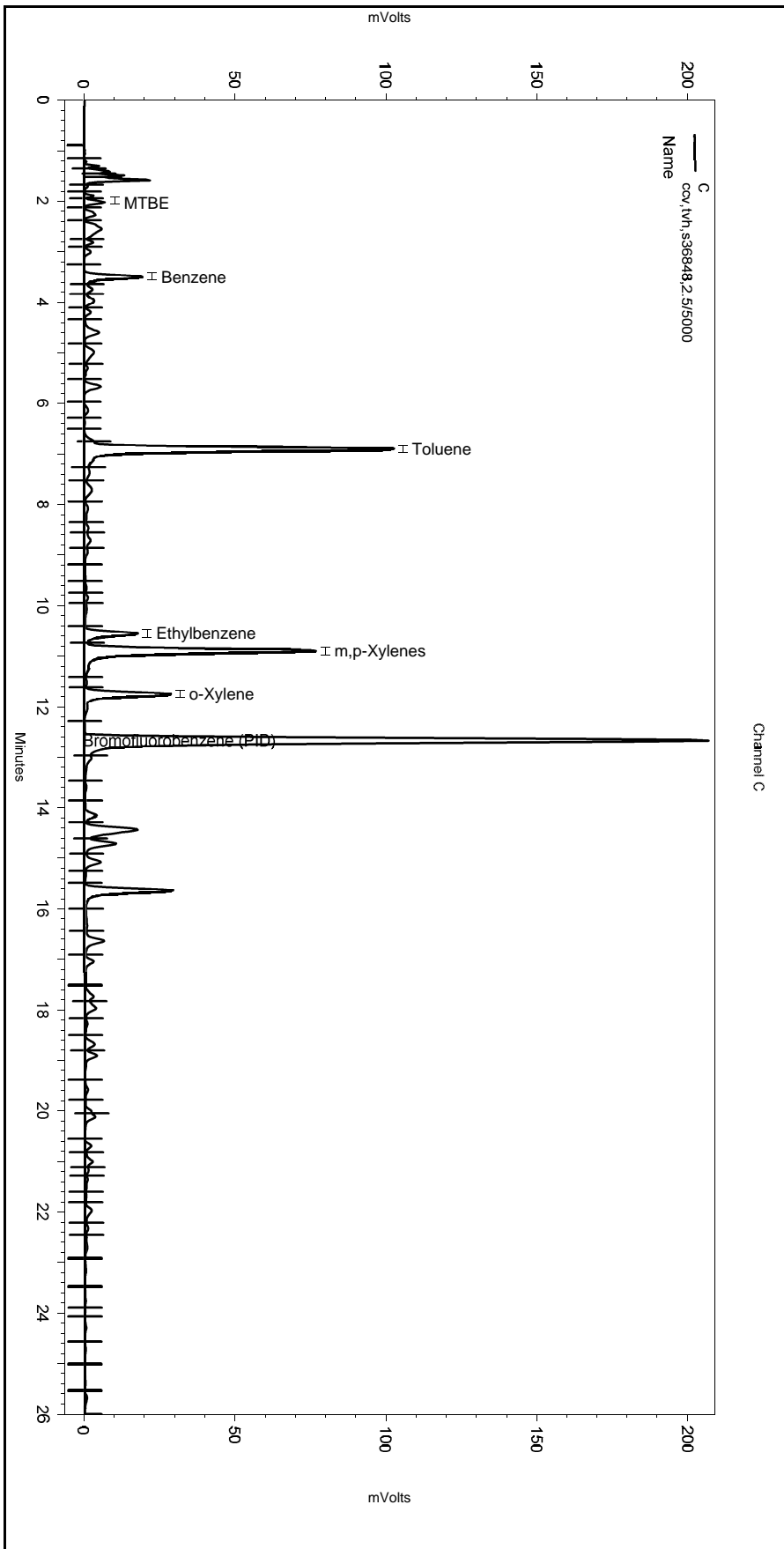
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-002_65AA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,tvh,s36848,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-002
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 2:28:22 PM
 Analysis Date: 7/11/2018 2:57:01 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-002_65AA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SPIKE USER REPORT FOR 301314 GCVOA Water
EPA 8021B

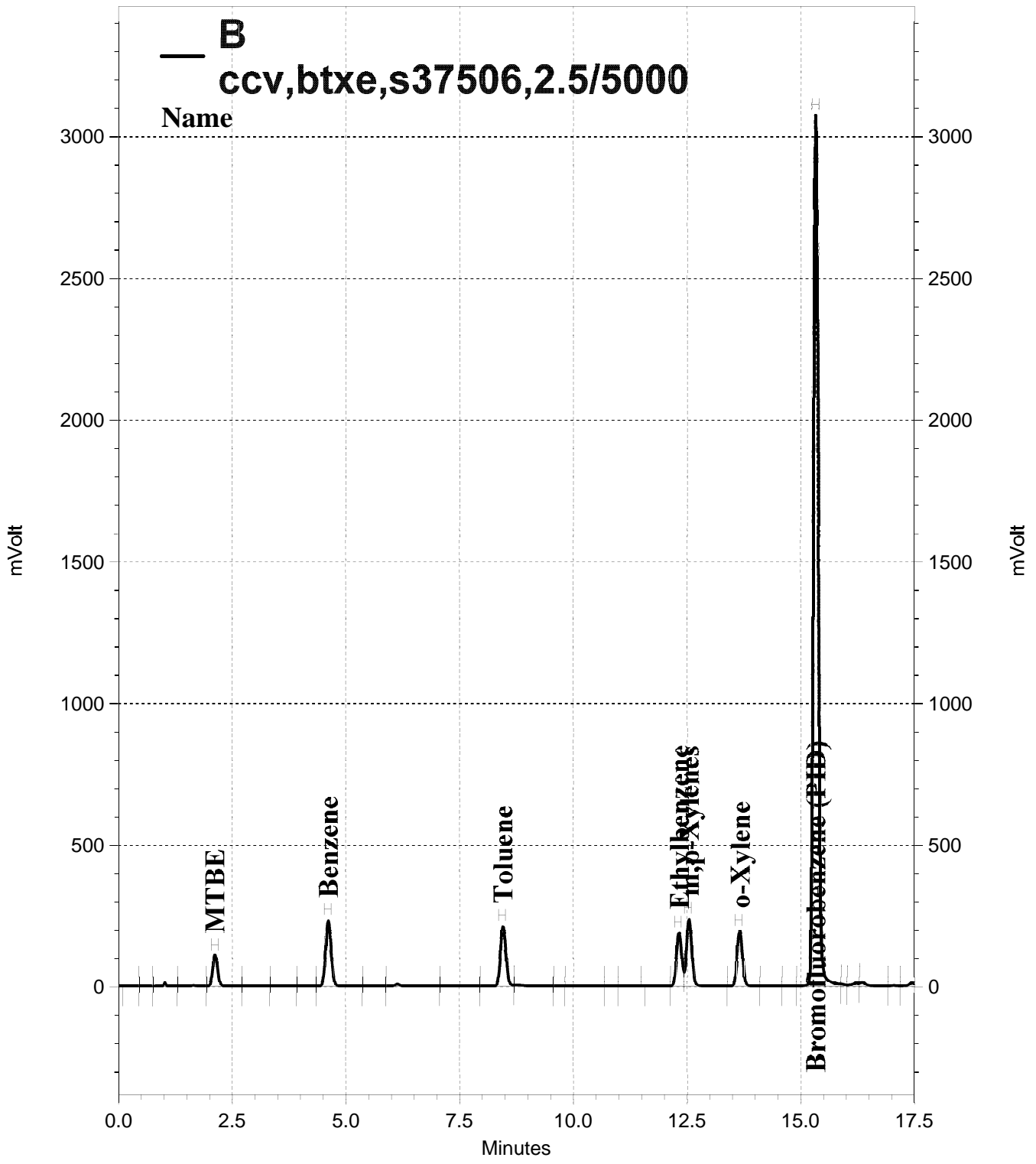
Inst : GC07 Run Name : QC939171 IDF : 1.0
 Seqnum : 328277310003.6 File : 192_003 Time : 11-JUL-2018 15:06
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S37506 (2000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	C	2159.5	2319.0	50.00	53.69	ng	7	15	u
Benzene	B	33713	39909	50.00	59.19	ng	18	15	c+ ***
Toluene	C	1982.1	2077.6	50.00	52.41	ng	5	15	u
Toluene	B	31621	36133	50.00	57.13	ng	14	15	
Ethylbenzene	C	1633.5	1718.5	50.00	52.60	ng	5	15	u
Ethylbenzene	B	27589	30229	50.00	54.78	ng	10	15	
m,p-Xylenes	C	2222.1	2307.2	50.00	51.92	ng	4	15	u
m,p-Xylenes	B	34401	38833	50.00	56.44	ng	13	15	
o-Xylene	C	1919.2	1909.9	50.00	49.76	ng	0	15	u
o-Xylene	B	28150	32203	50.00	57.20	ng	14	15	
Bromofluorobenzene (PID)	C	1732.9	1558.7	900.0	809.5	ng	-10	15	u
Bromofluorobenzene (PID)	B	25465	24669	900.0	871.9	ng	-3	15	

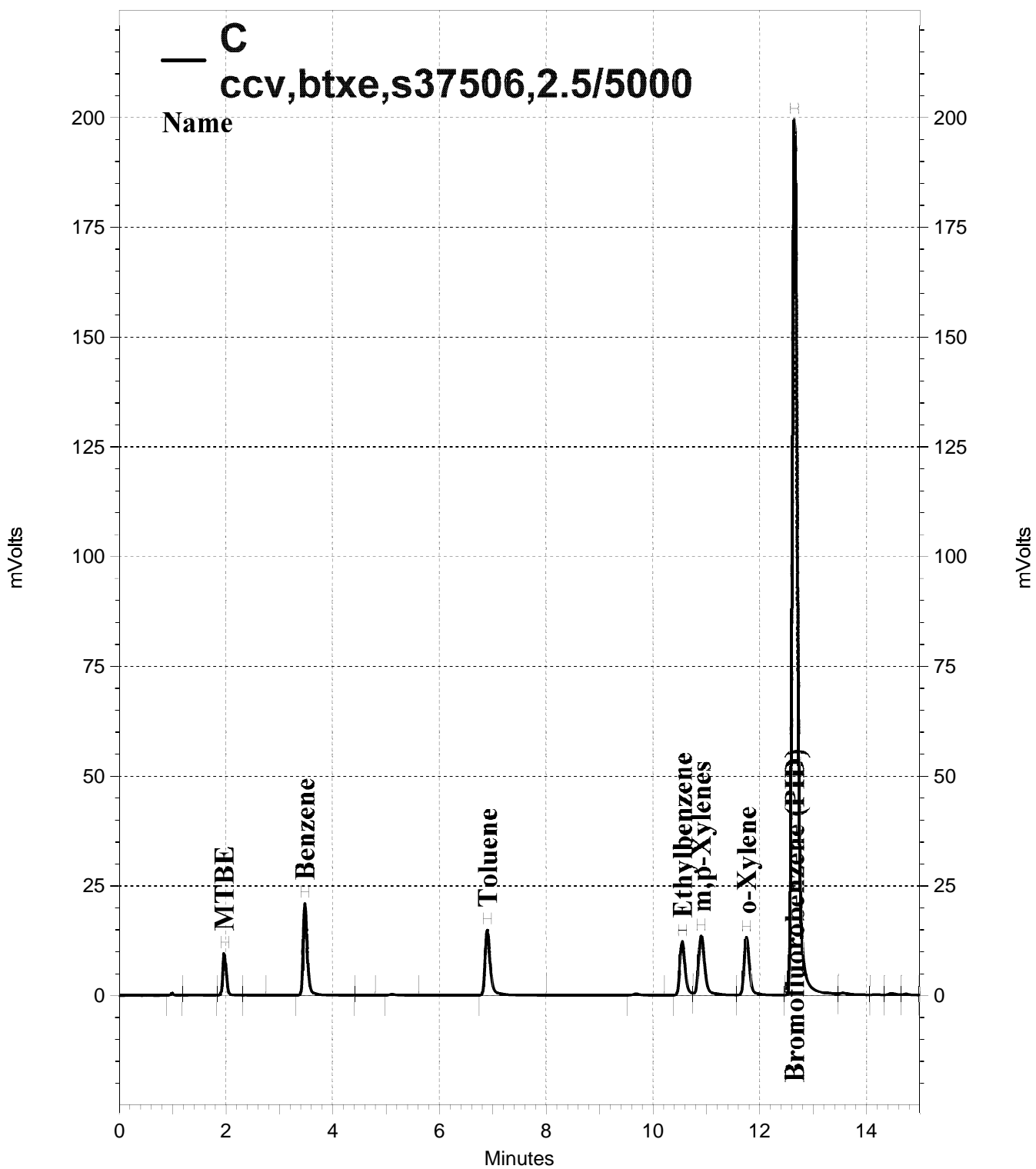
JM2 07/11/18 : Reporting from Ch. C using Ch. B as confirmation. [general version]

Analyst: JM2 Date: 07/13/18 Reviewer: EAH Date: 07/13/18

+ = high bias c = CCV u = use



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\192.seq
Sample Name: ccv,btxe,s37506,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/11/2018 3:06:41 PM
Analysis Date: 7/11/2018 3:35:25 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1898918	848.602
GAS:6-10			1600867	632.147
GAS:6-12			1764477	554.389
GAS:7-12			1746136	697.490
JP4:7-12			1746136	465.736

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.117	846889	73.481
Benzene	4.617	4.600	1995455	59.190
Toluene	8.450	8.433	1806630	57.133
Ethylbenzene	12.333	12.300	1511472	54.785
m,p-Xylenes	12.550	12.517	1941670	56.442
o-Xylene	13.667	13.633	1610140	57.199
Bromofluorobenzene (PID)	15.333	15.317	22202534	871.879

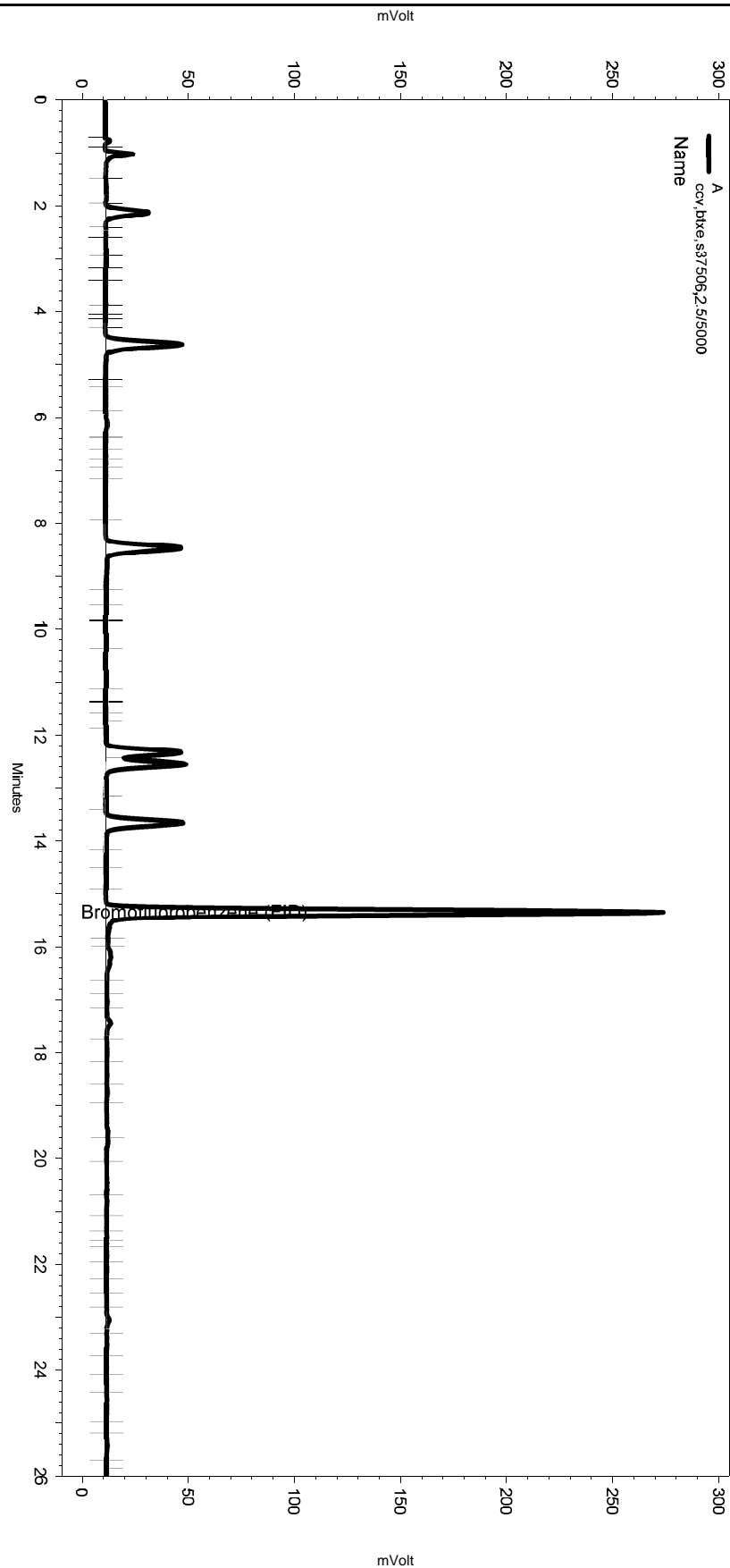
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.967	1.983	45713	63.439
Benzene	3.483	3.483	115949	53.694
Toluene	6.900	6.900	103879	52.408
Ethylbenzene	10.549	10.549	85924	52.601
m,p-Xylenes	10.899	10.899	115362	51.916
o-Xylene	11.749	11.749	95496	49.759
Bromofluorobenzene (PID)	12.649	12.649	1402812	809.539

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 3:06:41 PM
 Analysis Date: 7/11/2018 3:35:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

=====
 Manual Integration Fixes

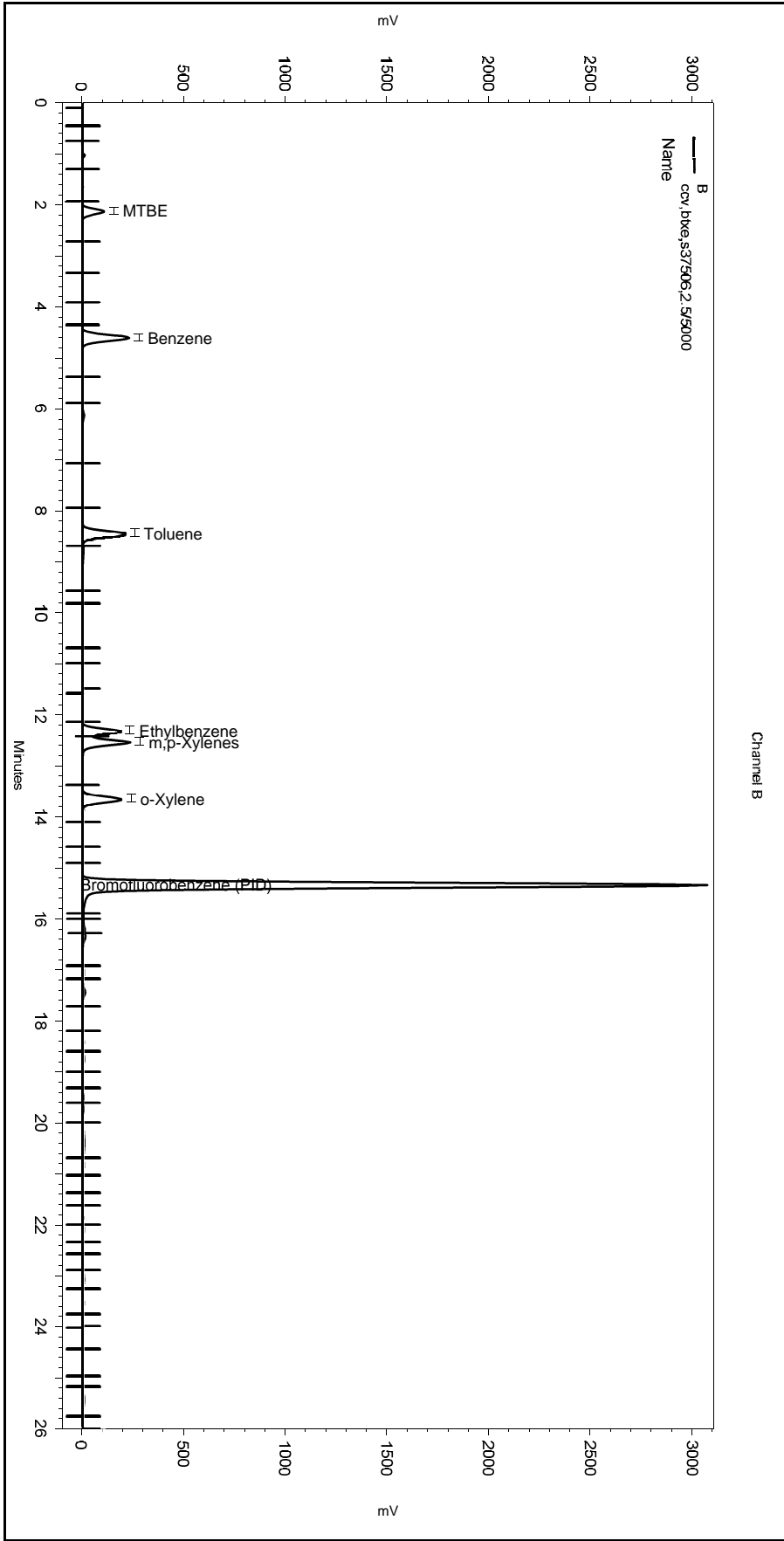
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\192-003_65AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 3:06:41 PM
 Analysis Date: 7/11/2018 3:35:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

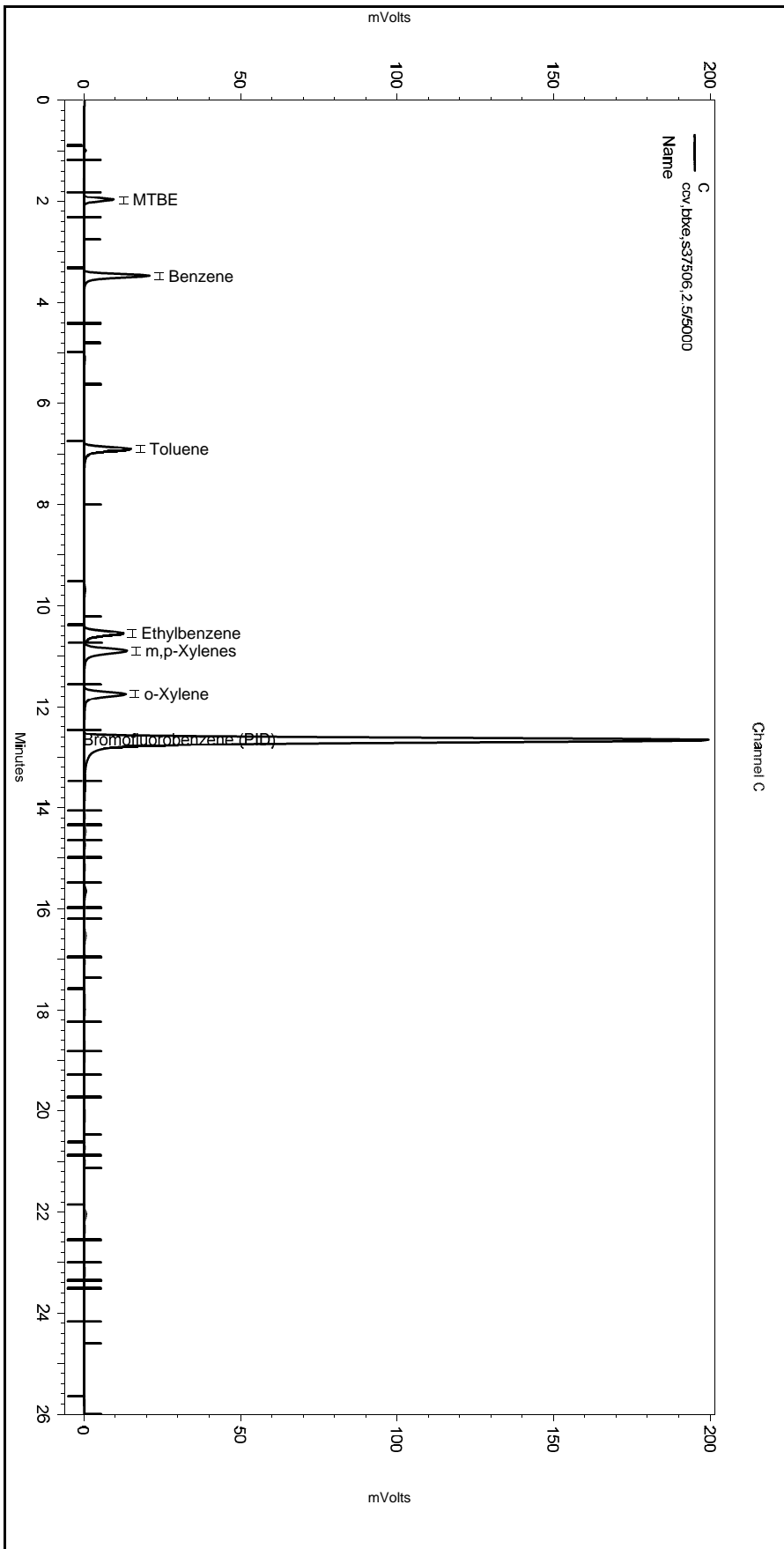
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-003_65AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-003
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 3:06:41 PM
 Analysis Date: 7/11/2018 3:35:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-003_65AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328277310015 File : 192_015 Time : 11-JUL-2018 22:52
 Cal : 328275574001 Caldate : 10-JUL-2018
 Standards: S36848 (1000X), S37192 (5000X)

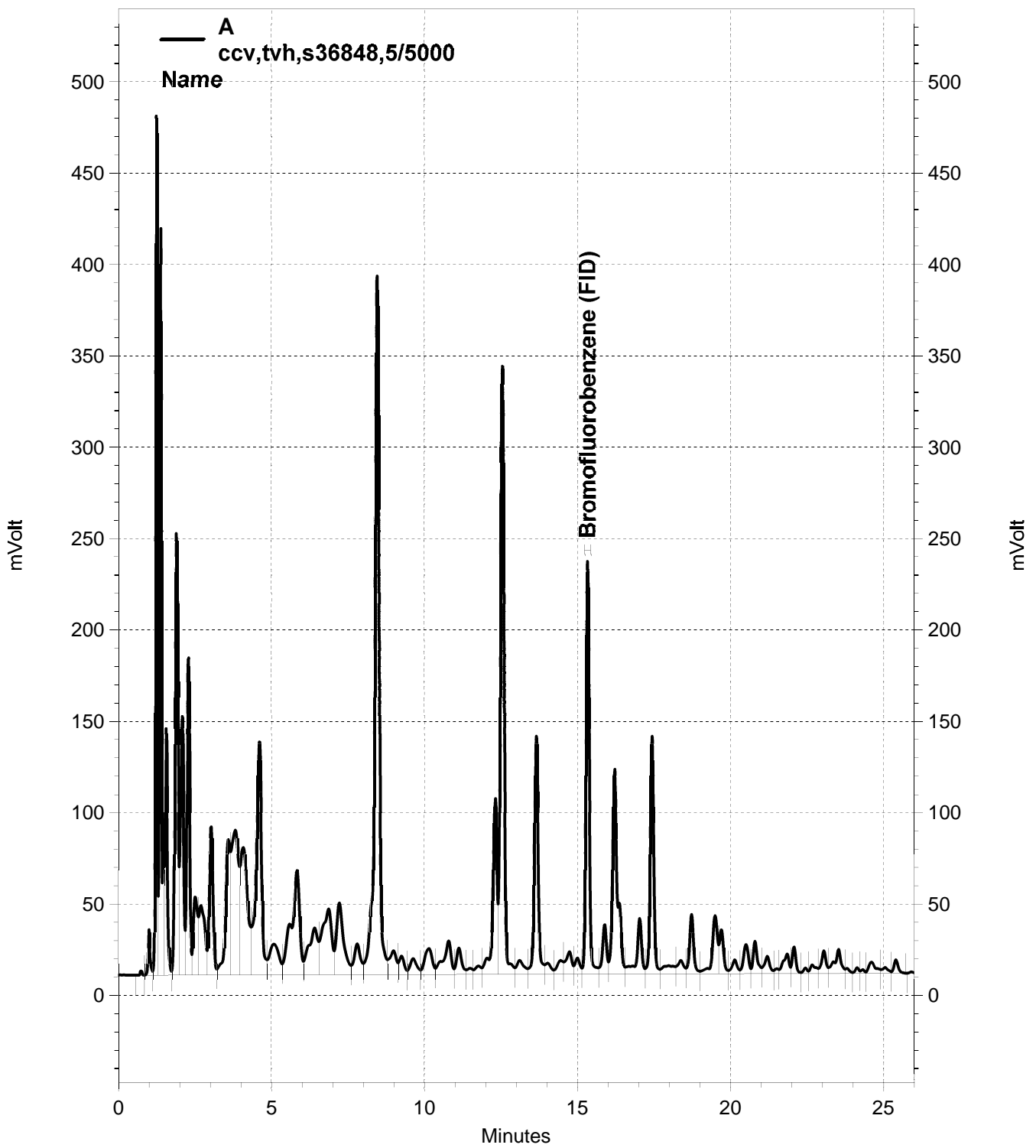
Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2503.5	2107.1	10000	8417	ng	-16	15	c- ***
Bromofluorobenzene (FID)	A	2237.7	1872.0	900.0	752.9	ng	-16	15	c-

CJN 07/12/18 : Out low for Gas C7-C12. Rerunning all associated samples.

CJN 07/12/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 07/12/18 Reviewer: EAH Date: 07/12/18

--low bias c=CCV



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-015, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
Sample Name: ccv,tvh,s36848,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-015
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/11/2018 10:52:17 PM
Analysis Date: 7/11/2018 11:21:00 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1684831	752.929
GAS:6-10			22119718	8734.585
GAS:6-12			27036238	8494.631
GAS:7-12			21071190	8416.832
JP4:7-12			21071190	5620.181

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.633	4.600	4031614	119.588
Toluene	8.467	8.433	19953375	631.012
Ethylbenzene	12.317	12.300	4013642	145.479
m,p-Xylenes	12.550	12.517	16610641	482.850
o-Xylene	13.650	13.633	5867661	208.443
Bromofluorobenzene (PID)	15.333	15.317	19234418	755.323

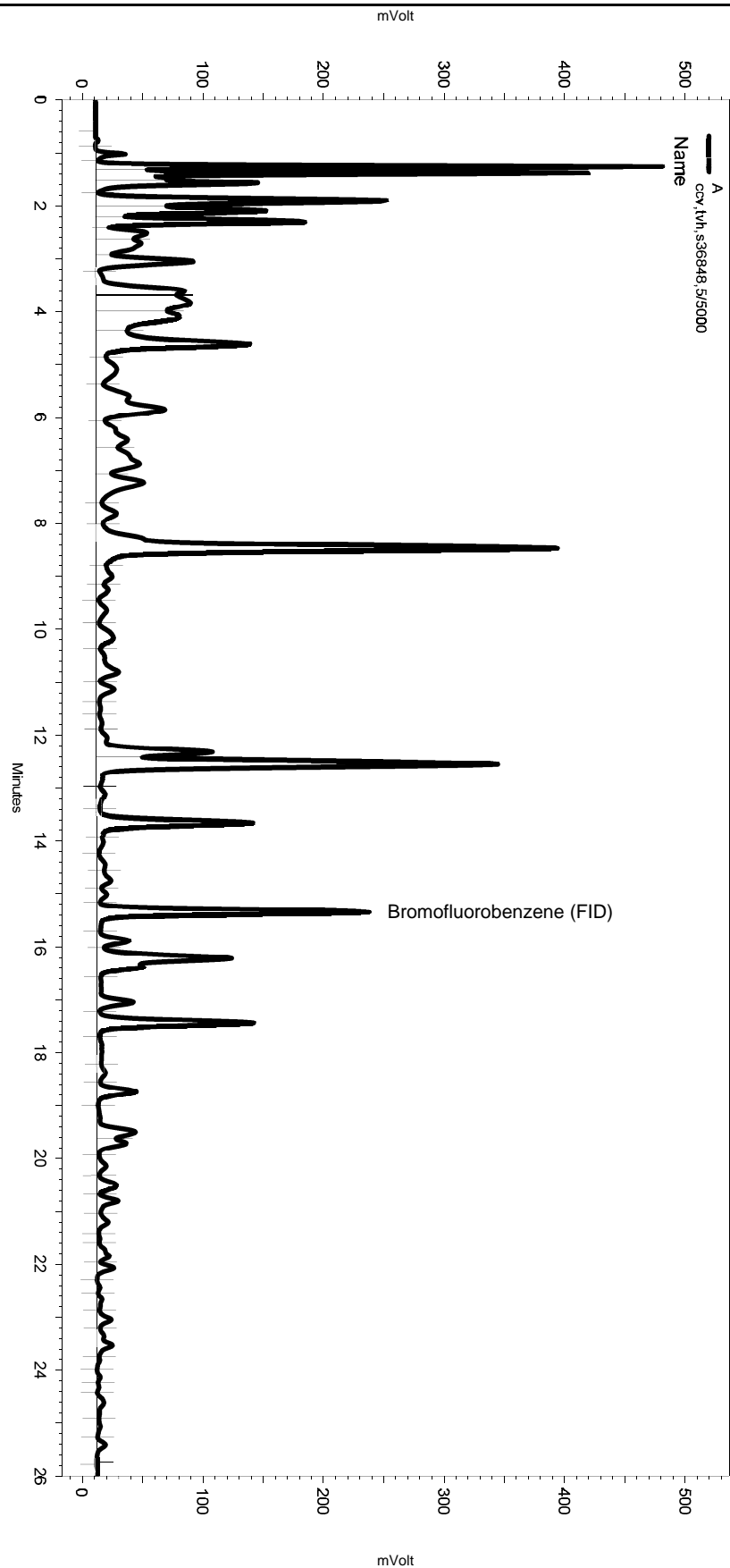
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	1.983	69415	96.332
Benzene	3.500	3.483	220162	101.953
Toluene	6.900	6.900	1274051	642.772
Ethylbenzene	10.549	10.549	237011	145.094
m,p-Xylenes	10.899	10.899	1086534	488.966
o-Xylene	11.749	11.749	365494	190.444
Bromofluorobenzene (PID)	12.666	12.649	1239638	715.374

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,tvh,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-015
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 10:52:17 PM
 Analysis Date: 7/11/2018 11:21:00 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

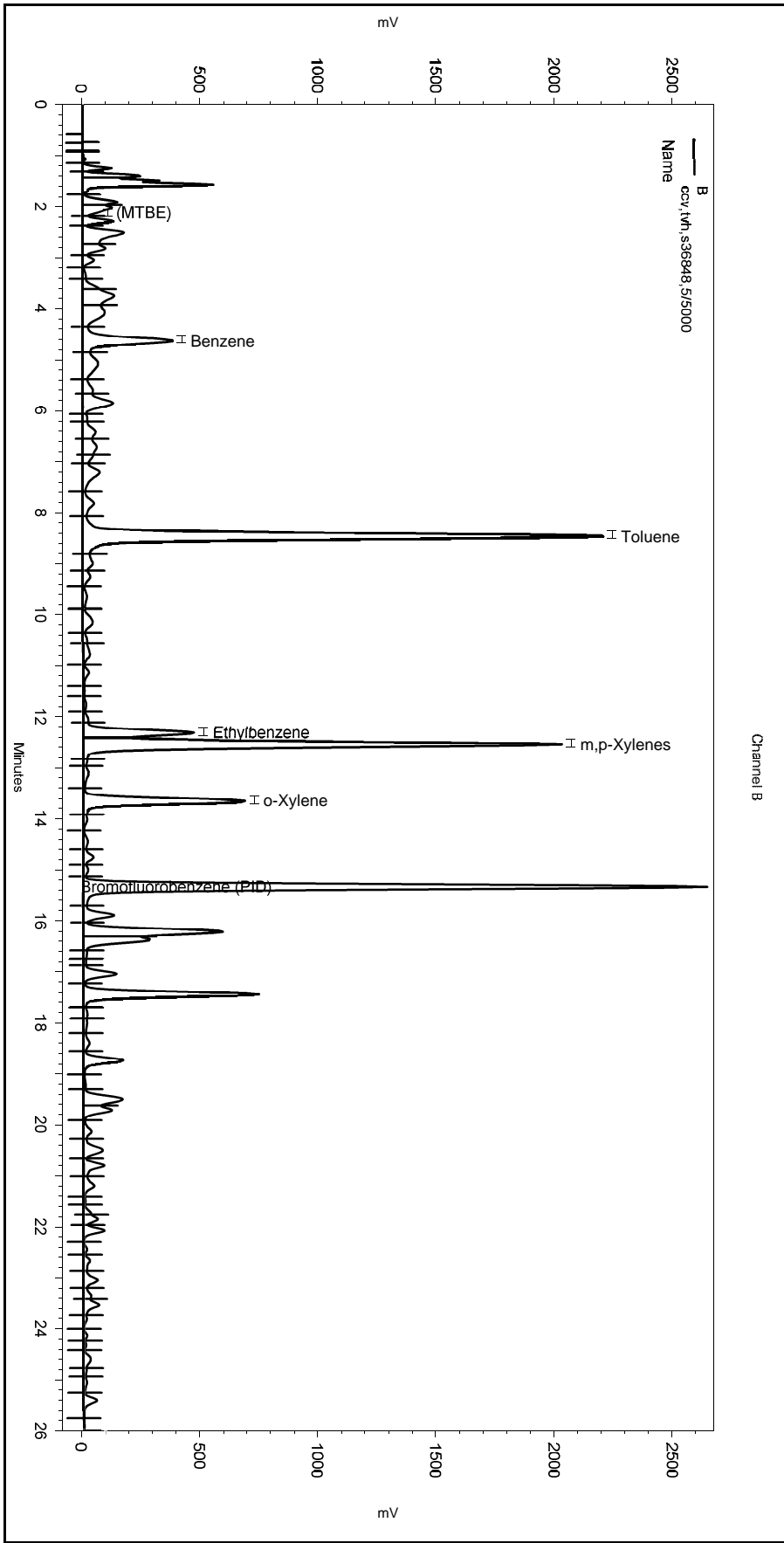
=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\192-015_65B7.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,tvh,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-015
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 10:52:17 PM
 Analysis Date: 7/11/2018 11:21:00 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

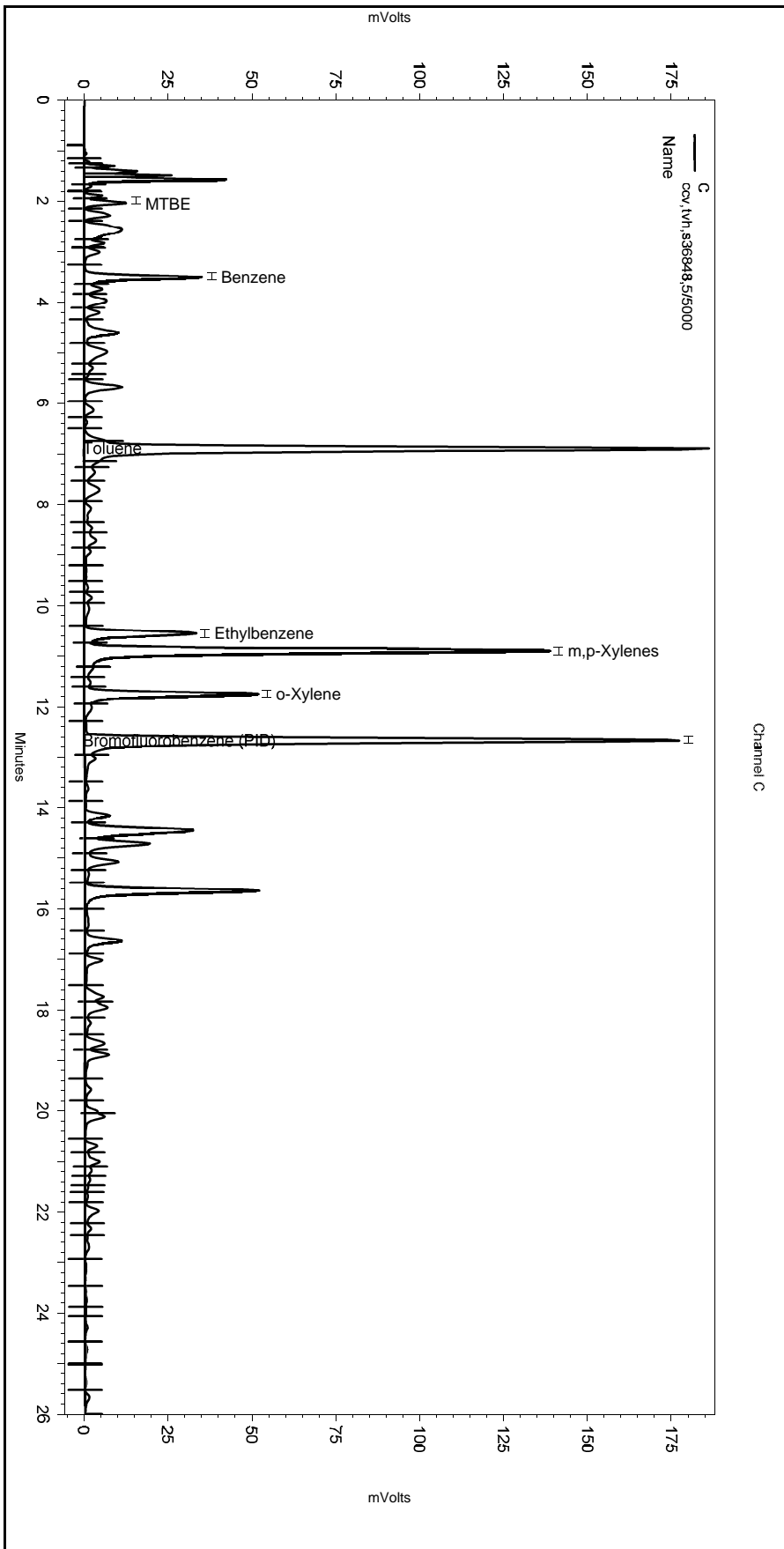
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-015_65B7.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,tvh,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-015
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/11/2018 10:52:17 PM
 Analysis Date: 7/11/2018 11:21:00 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-015_65B7.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8021B

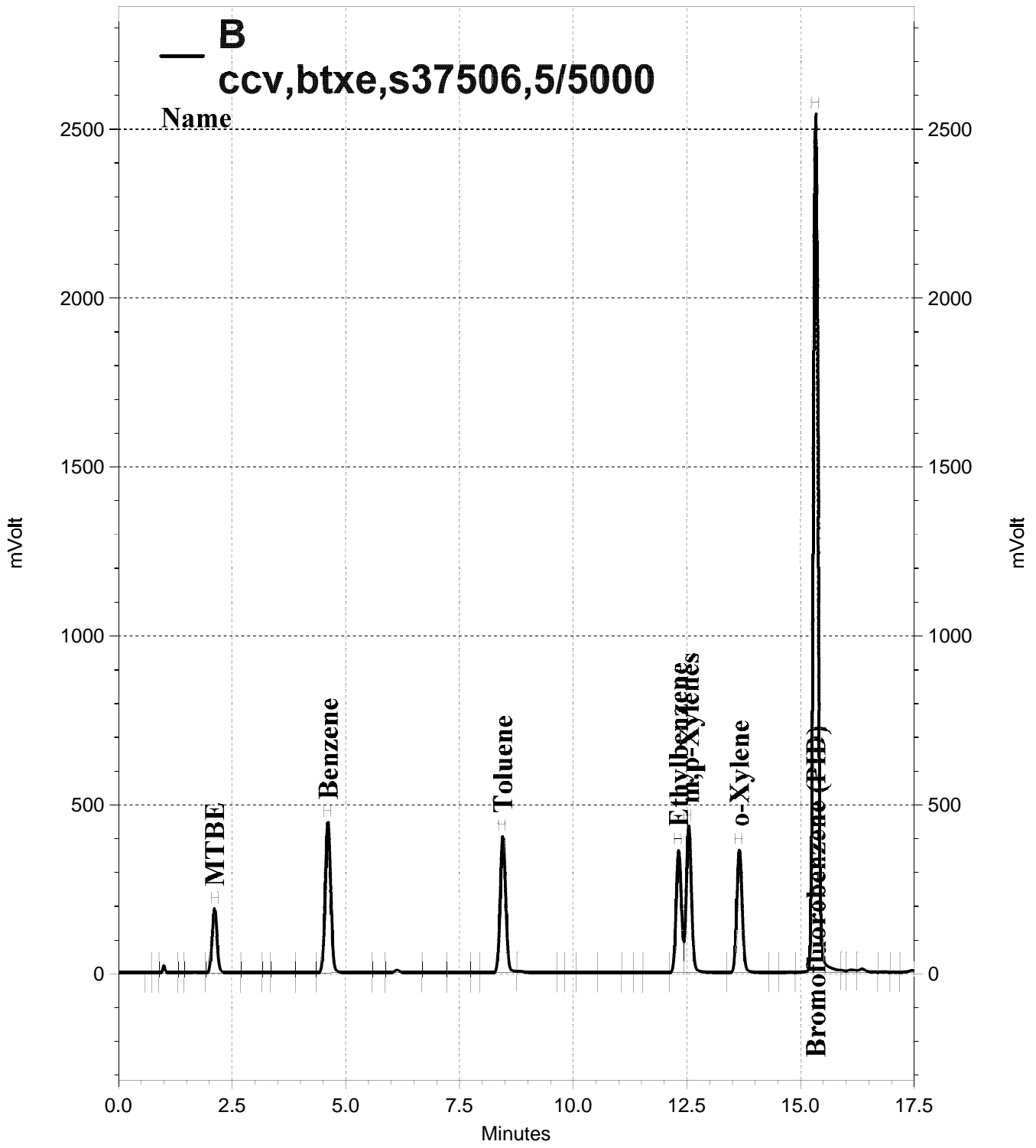
Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328277310018 File : 192_018 Time : 12-JUL-2018 00:47
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S37506 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	B	33713	38633	100.0	114.6	ng	15	15	
Toluene	B	31621	34527	100.0	109.2	ng	9	15	
Ethylbenzene	B	27589	29160	100.0	105.7	ng	6	15	
m,p-Xylenes	B	34401	35691	100.0	103.7	ng	4	15	
o-Xylene	B	28150	30470	100.0	108.2	ng	8	15	
Bromofluorobenzene (PID)	B	25465	20437	900.0	722.3	ng	-20	15	c-
Benzene	C	2159.5	2444.6	100.0	113.2	ng	13	15	
Toluene	C	1982.1	2171.4	100.0	109.5	ng	10	15	
Ethylbenzene	C	1633.5	1803.0	100.0	110.4	ng	10	15	
m,p-Xylenes	C	2222.1	2251.7	100.0	101.3	ng	1	15	
o-Xylene	C	1919.2	1911.7	100.0	99.61	ng	0	15	
Bromofluorobenzene (PID)	C	1732.9	1323.8	900.0	687.6	ng	-24	15	c-

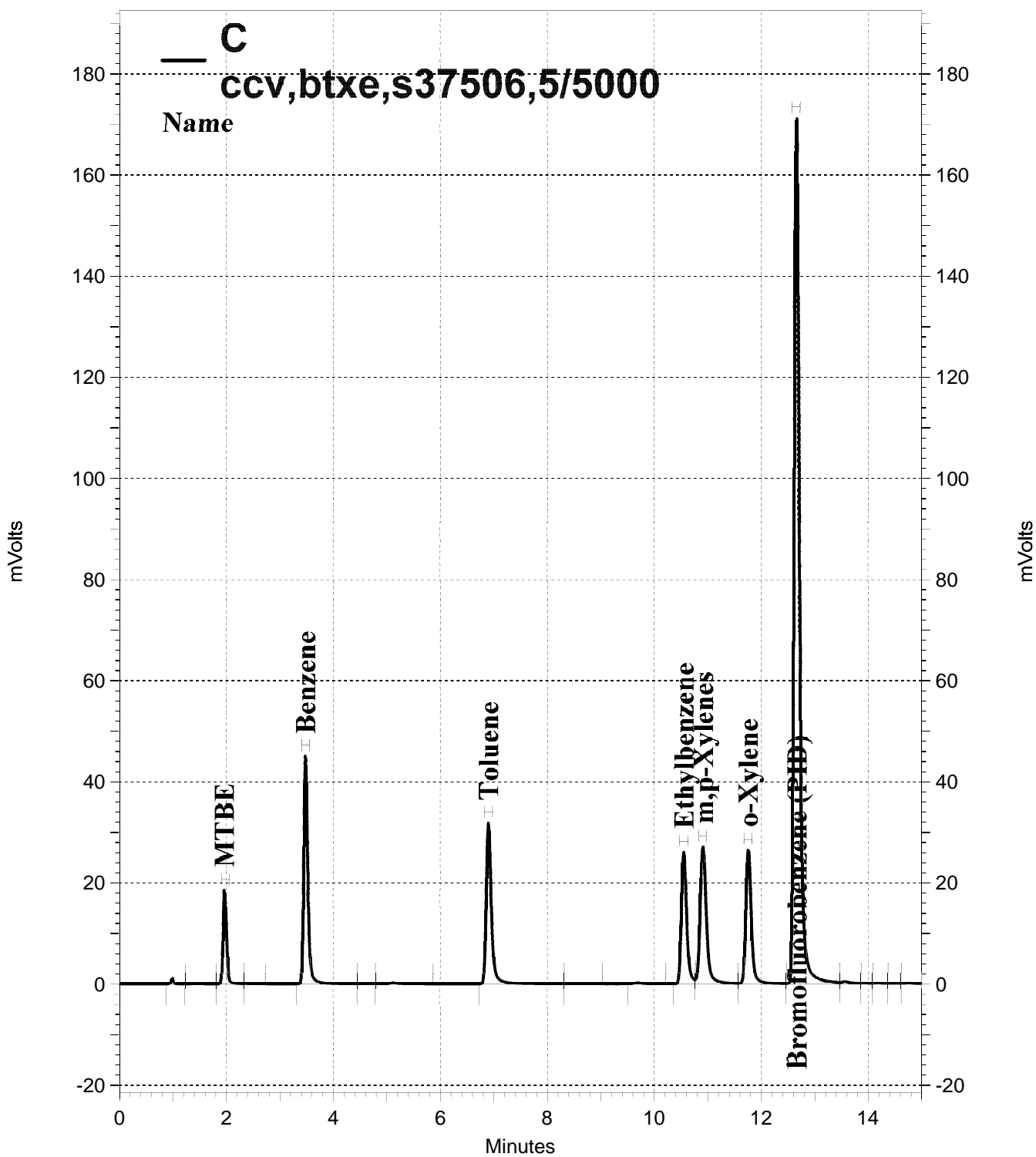
CJN 07/12/18 [Bromofluorobenzene (PID) B]: Passes control limits.

Analyst: CJN Date: 07/12/18 Reviewer: EAH Date: 07/12/18

--low bias c=CCV



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-018, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\192-018, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\192.seq
Sample Name: ccv,btxe,s37506,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-018
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/12/2018 12:47:36 AM
Analysis Date: 7/12/2018 1:16:19 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1589072	710.136
GAS:6-10			3106846	1226.824
GAS:6-12			3325855	1044.965
GAS:7-12			3309645	1322.030
JP4:7-12			3309645	882.760

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.117	1444748	125.354
Benzene	4.617	4.600	3863341	114.596
Toluene	8.450	8.433	3452725	109.190
Ethylbenzene	12.317	12.300	2915981	105.693
m,p-Xylenes	12.550	12.517	3569060	103.748
o-Xylene	13.650	13.633	3047001	108.242
Bromofluorobenzene (PID)	15.333	15.317	18393601	722.305

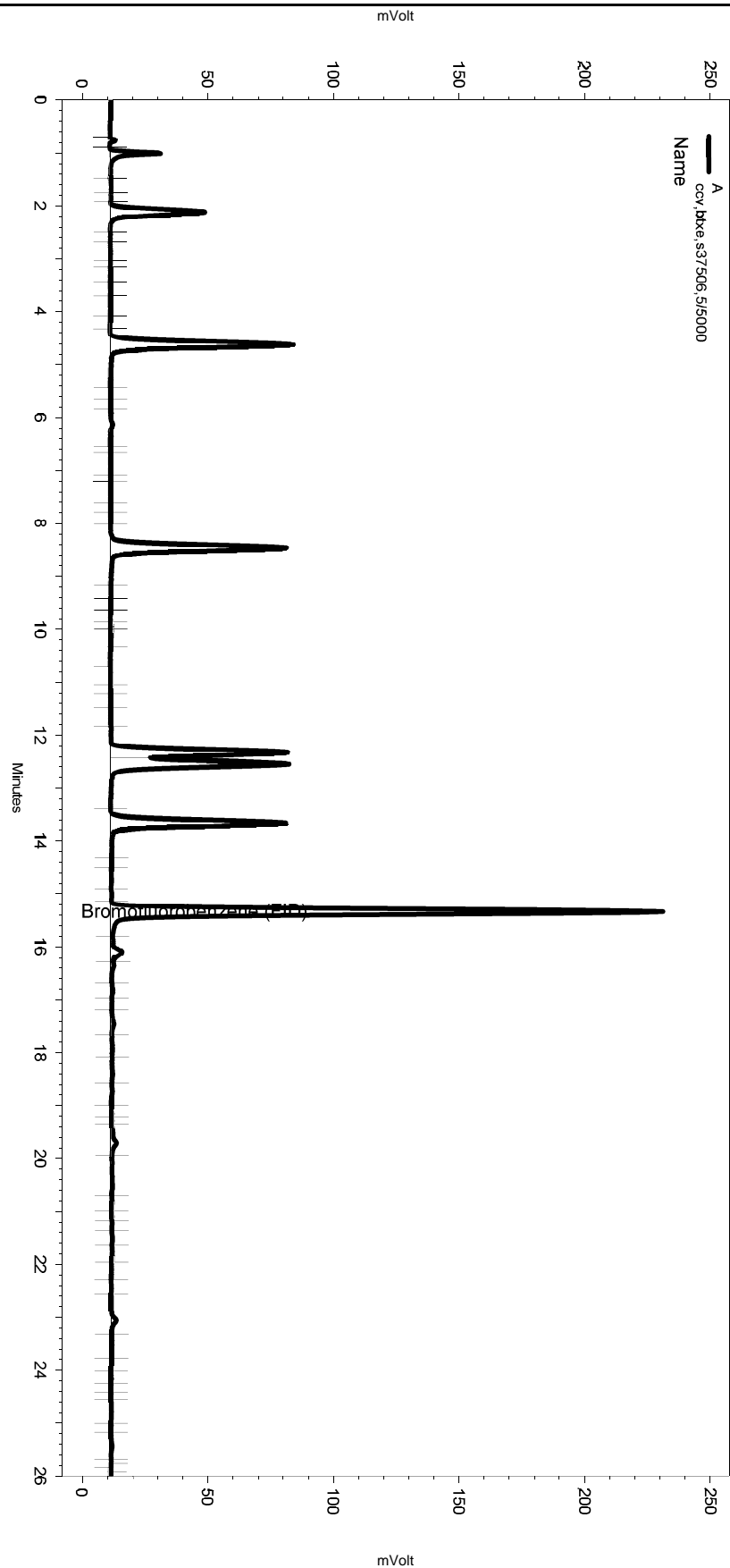
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.967	1.983	87002	120.739
Benzene	3.483	3.483	244458	113.204
Toluene	6.900	6.900	217136	109.547
Ethylbenzene	10.549	10.549	180297	110.375
m,p-Xylenes	10.916	10.899	225170	101.332
o-Xylene	11.749	11.749	191171	99.611
Bromofluorobenzene (PID)	12.666	12.649	1191445	687.562

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 12:47:36 AM
 Analysis Date: 7/12/2018 1:16:19 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

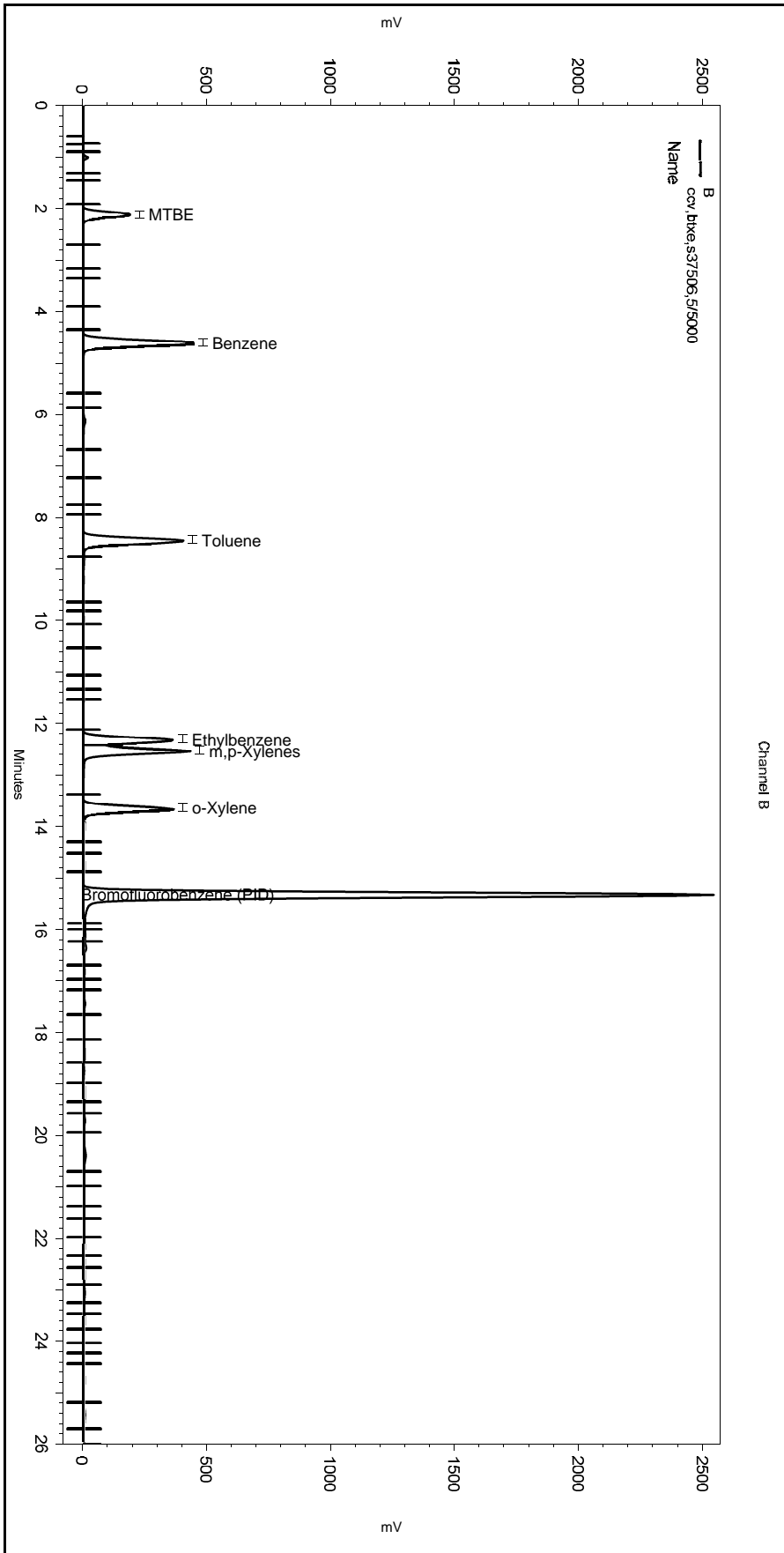
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-018_65BA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 12:47:36 AM
 Analysis Date: 7/12/2018 1:16:19 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

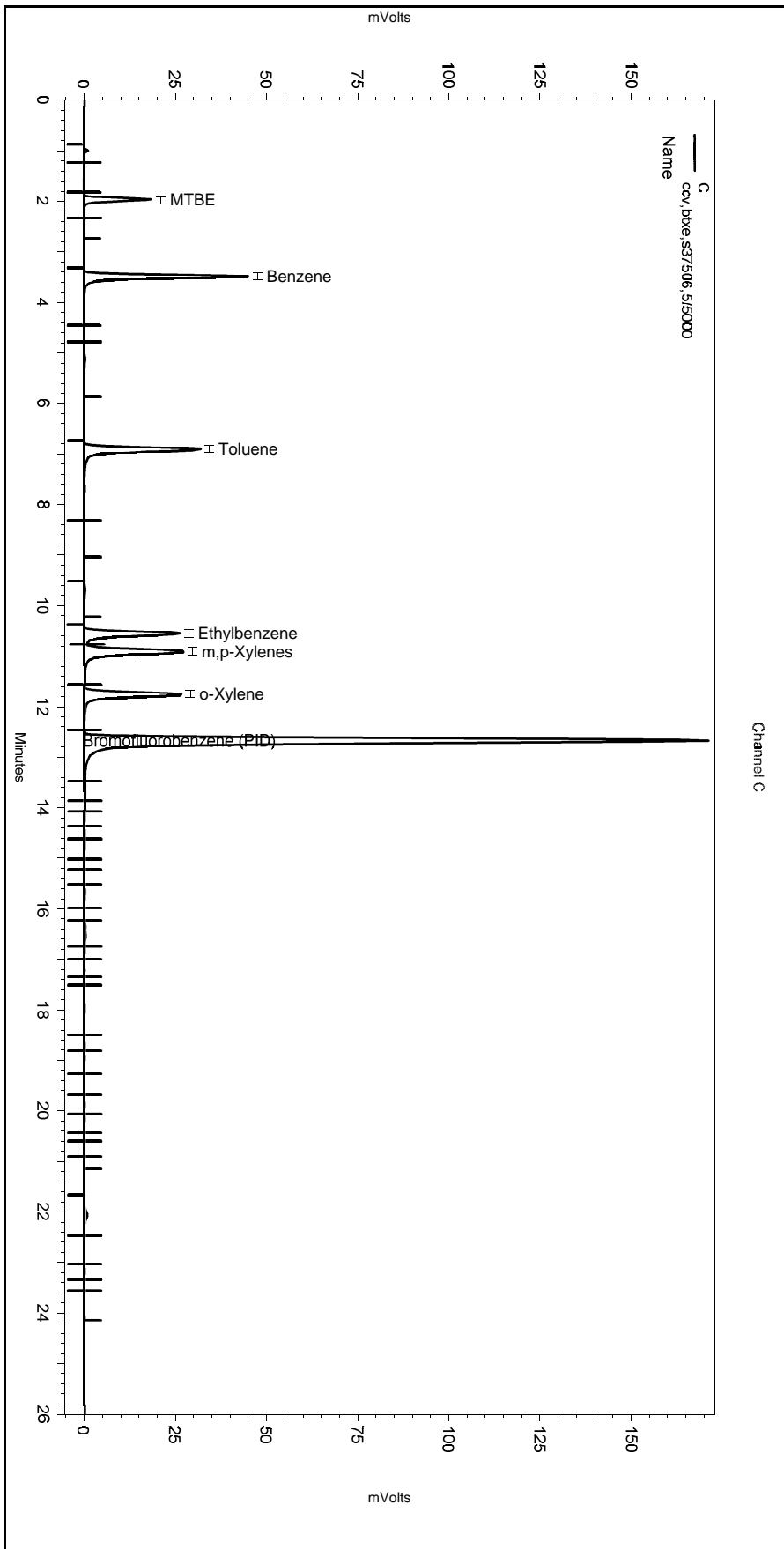
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-018_65BA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\192.seq
 Sample Name: ccv,btxe,s37506,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\192-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 12:47:36 AM
 Analysis Date: 7/12/2018 1:16:19 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\192-018_65BA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8015B

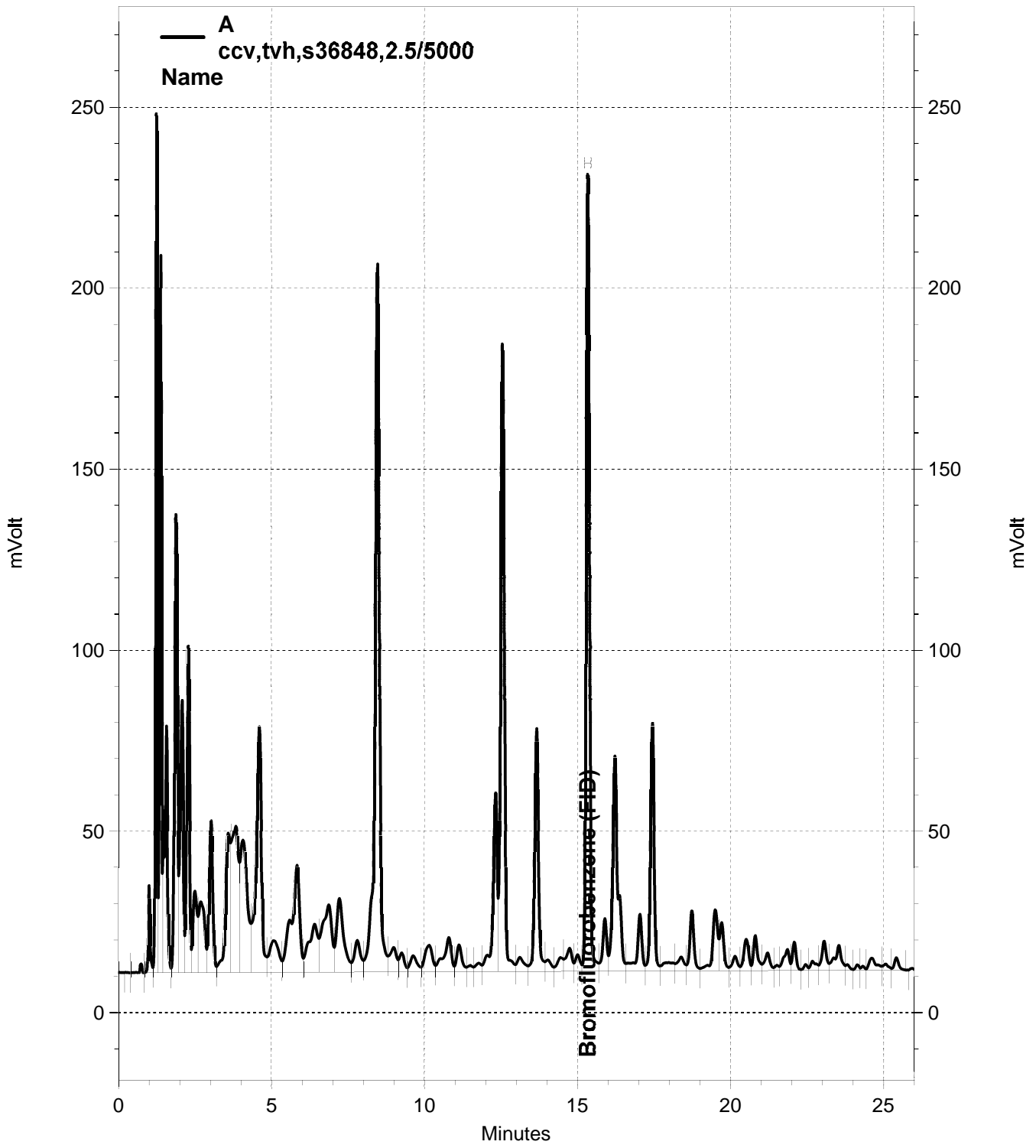
Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328278480002 File : 193_002 Time : 12-JUL-2018 09:58
 Cal : 328275574001 Caldate : 10-JUL-2018
 Standards: S36848 (2000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2503.5	2197.5	5000	4389	ng	-12	15	
Bromofluorobenzene (FID)	A	2237.7	1814.7	900.0	729.9	ng	-19	15	c-

CJN 07/13/18 [Bromofluorobenzene (FID) A]: Passes control limits.

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18

--low bias c=CCV



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-002, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: ccv,tvh,s36848,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-002
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/12/2018 9:58:54 AM
Analysis Date: 7/12/2018 10:27:37 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1633201	729.856
GAS:6-10			11422795	4510.608
GAS:6-12			14072238	4421.417
GAS:7-12			10987658	4388.993
JP4:7-12			10987658	2930.667

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.617	4.600	1962726	58.219
Toluene	8.467	8.433	10024745	317.026
Ethylbenzene	12.333	12.300	1965860	71.255
m,p-Xylenes	12.550	12.517	8569170	249.095
o-Xylene	13.667	13.633	2932570	104.177
Bromofluorobenzene (PID)	15.333	15.317	18664412	732.939

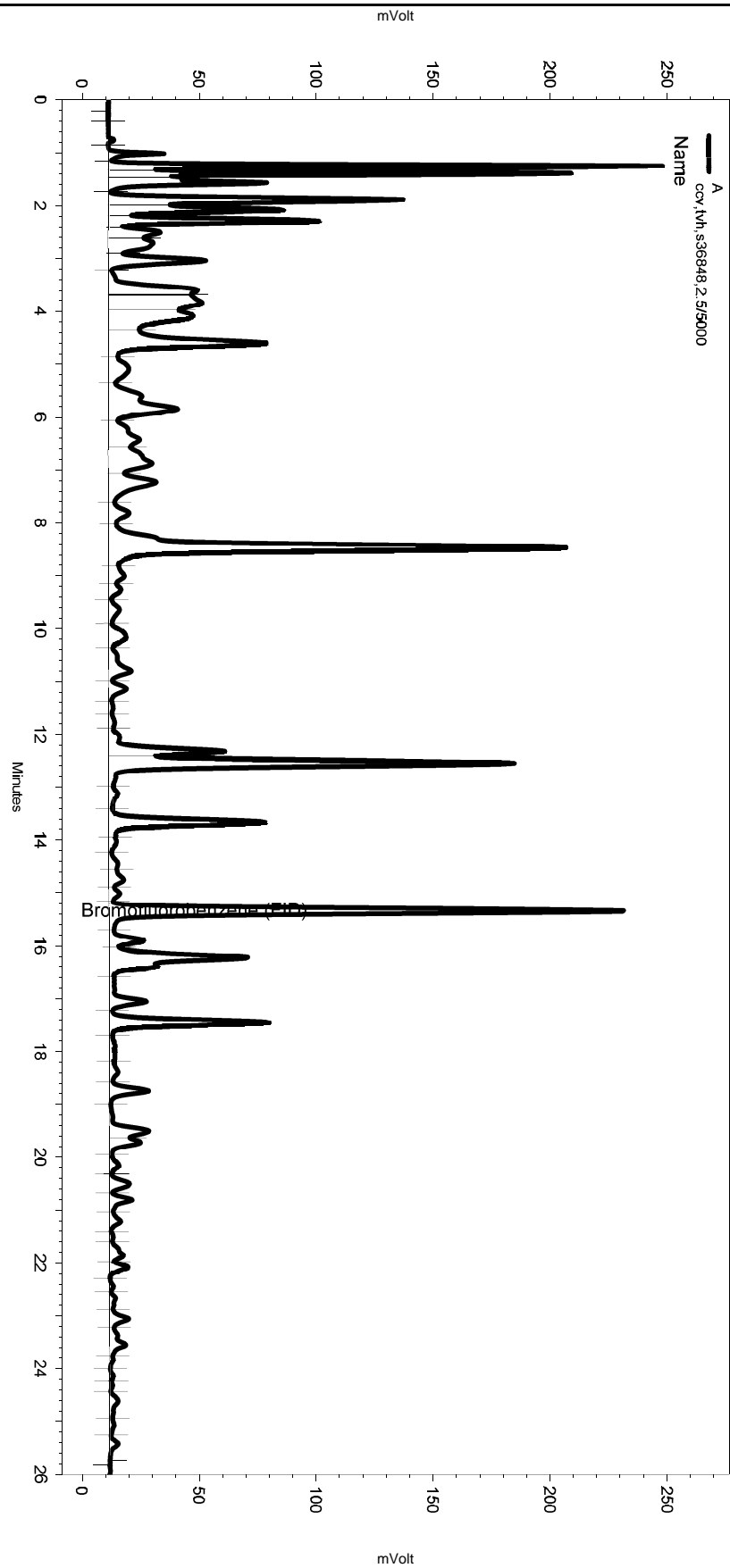
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	1.983	34771	48.254
Benzene	3.483	3.483	108683	50.329
Toluene	6.900	6.900	658965	332.455
Ethylbenzene	10.549	10.549	119329	73.051
m,p-Xylenes	10.899	10.899	563509	253.593
o-Xylene	11.766	11.749	200787	104.622
Bromofluorobenzene (PID)	12.666	12.649	1221540	704.930

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-002
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 9:58:54 AM
 Analysis Date: 7/12/2018 10:27:37 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

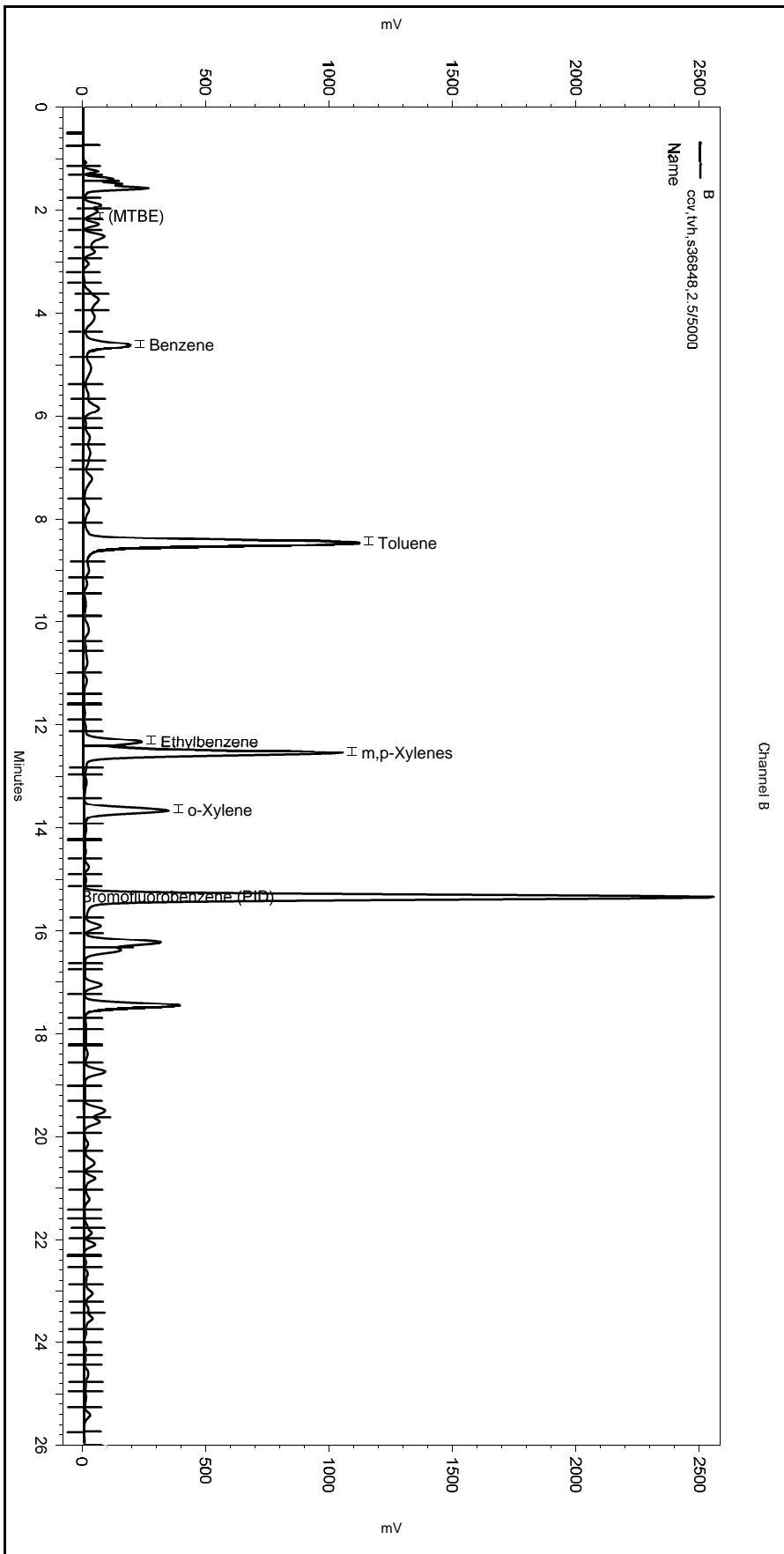
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-002_65C6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-002
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 9:58:54 AM
 Analysis Date: 7/12/2018 10:27:37 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

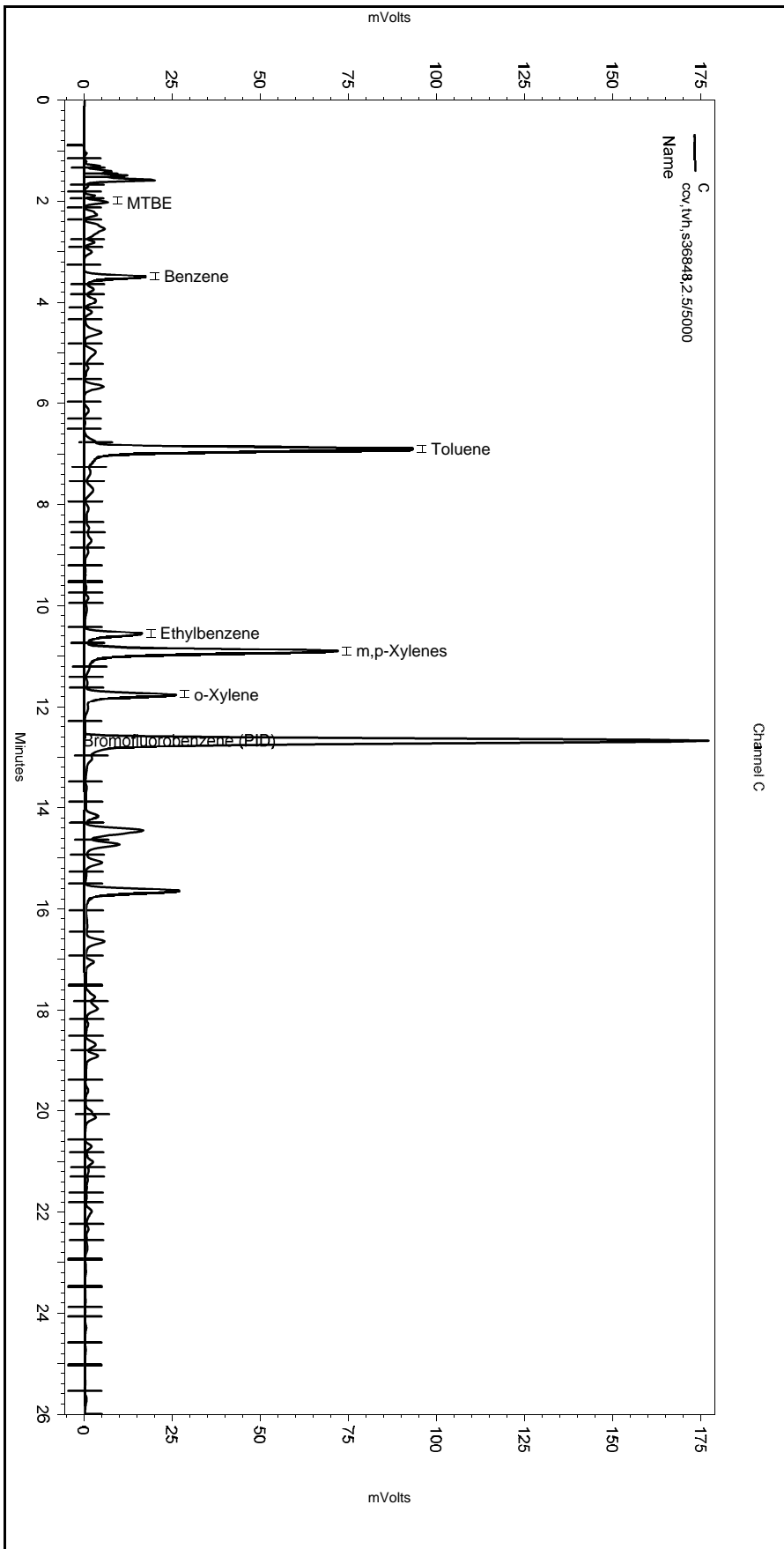
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-002_65C6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-002
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 9:58:54 AM
 Analysis Date: 7/12/2018 10:27:37 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

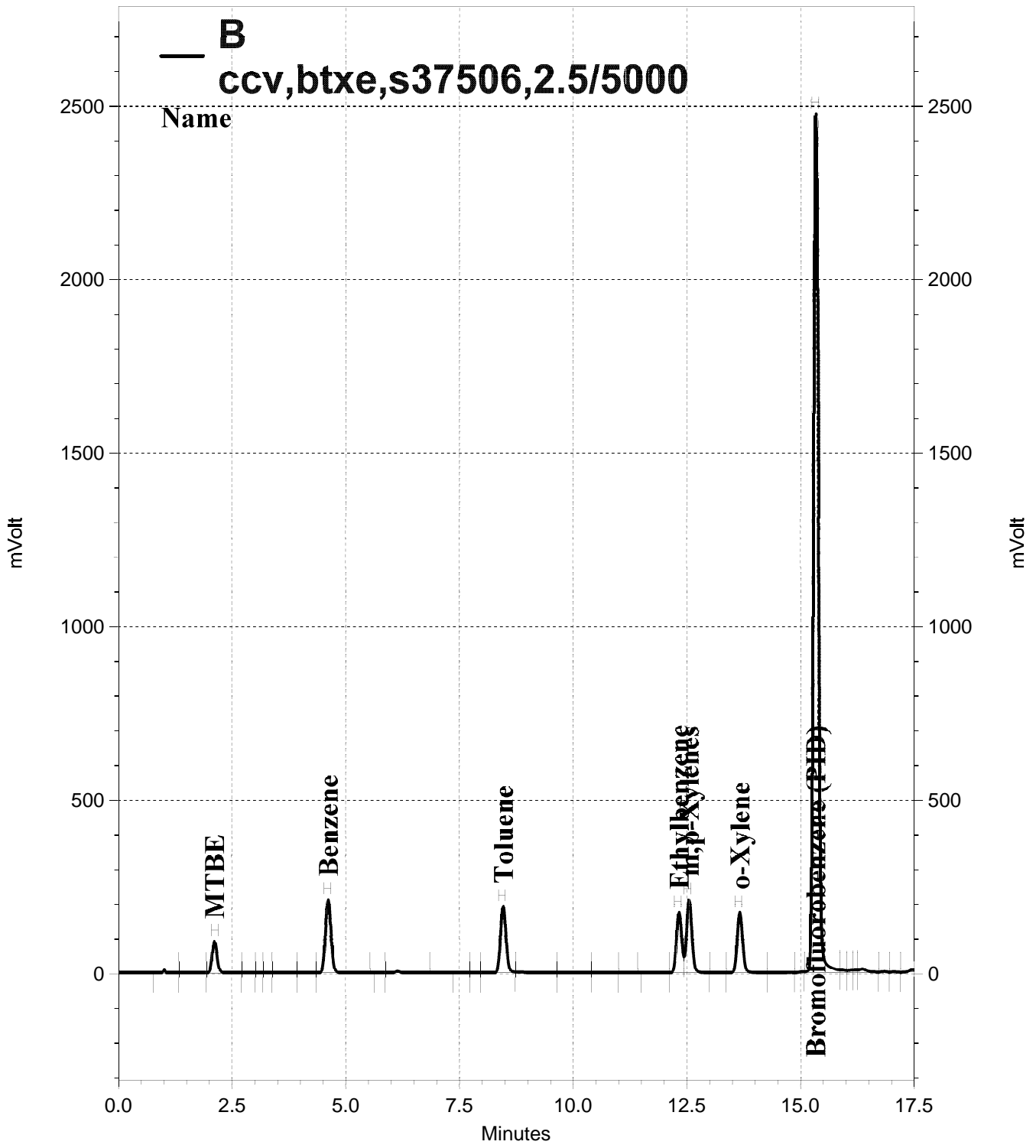
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

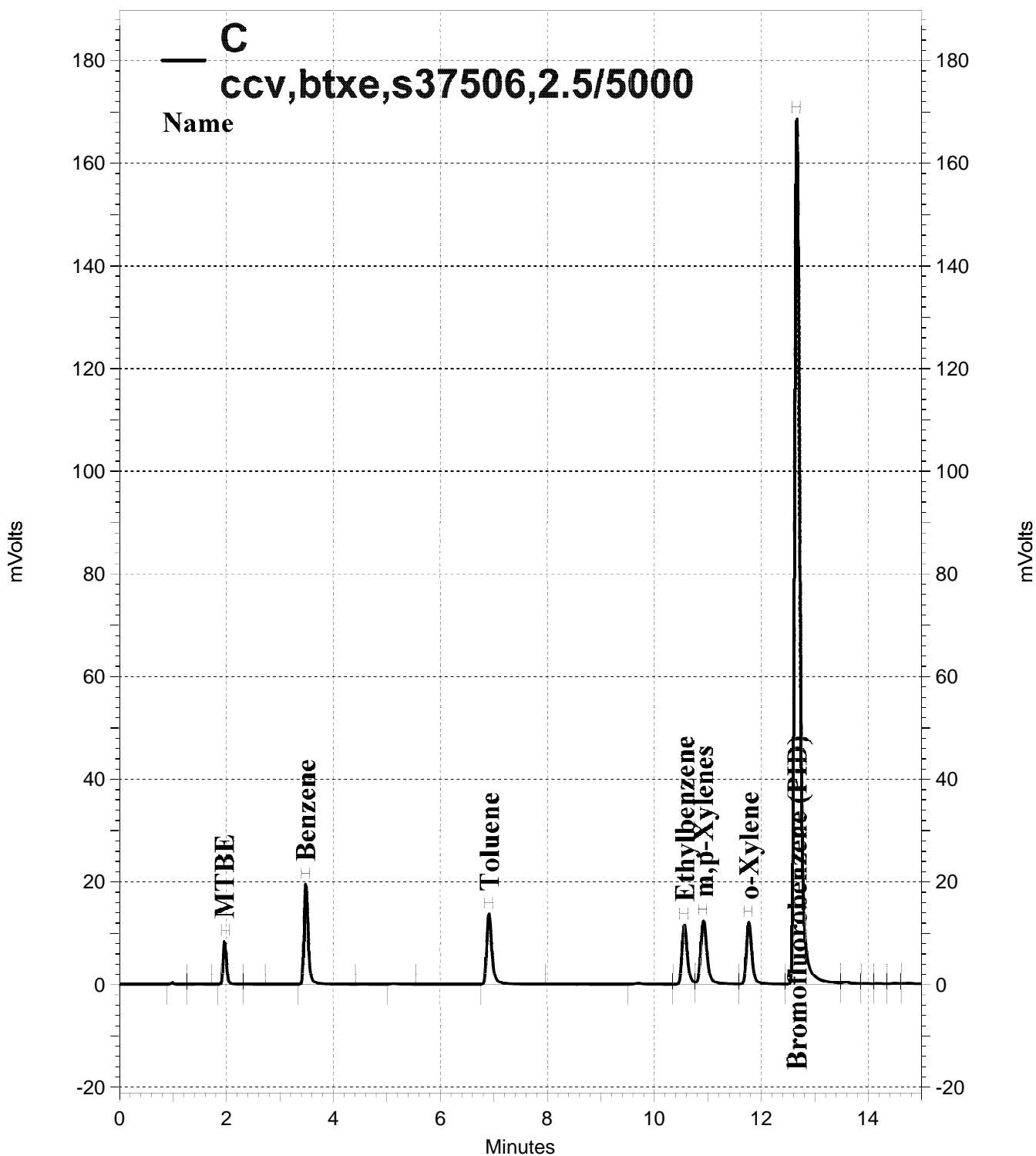
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-002_65C6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-004, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-004, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: ccv,btxe,s37506,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-004
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/12/2018 11:15:22 AM
Analysis Date: 7/12/2018 11:44:04 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1567486	700.489
GAS:6-10			1555650	614.292
GAS:6-12			1841326	578.534
GAS:7-12			1829281	730.702
JP4:7-12			1829281	487.912

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.117	691048	59.959
Benzene	4.617	4.600	1812217	53.755
Toluene	8.467	8.433	1625450	51.404
Ethylbenzene	12.333	12.300	1370254	49.666
m,p-Xylenes	12.550	12.517	1735261	50.442
o-Xylene	13.667	13.633	1439476	51.136
Bromofluorobenzene (PID)	15.333	15.317	18130036	711.955

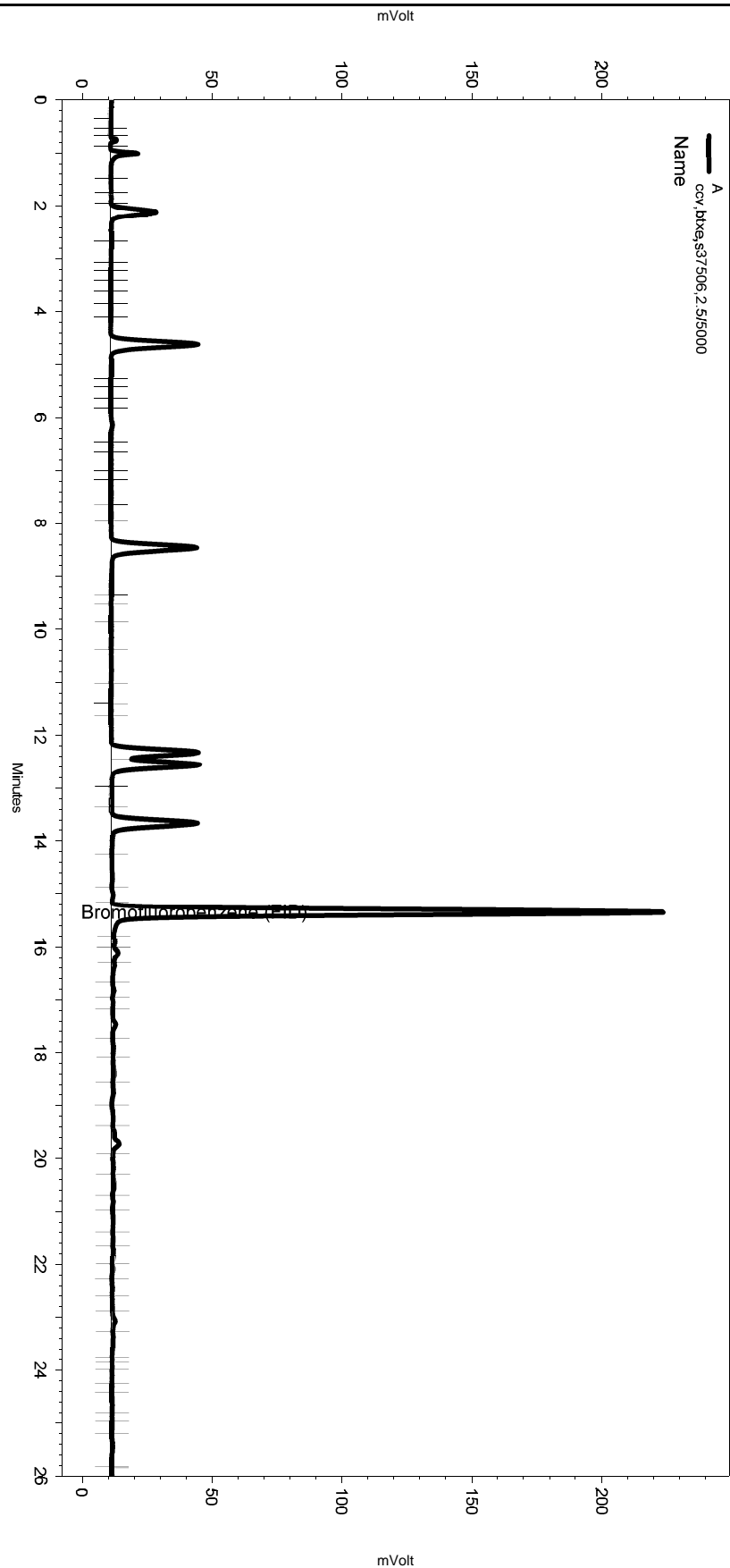
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.967	1.983	38672	53.668
Benzene	3.483	3.483	109783	50.838
Toluene	6.916	6.900	96896	48.885
Ethylbenzene	10.566	10.549	81629	49.972
m,p-Xylenes	10.916	10.899	106632	47.987
o-Xylene	11.766	11.749	88209	45.962
Bromofluorobenzene (PID)	12.666	12.649	1181502	681.824

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-004
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 11:15:22 AM
 Analysis Date: 7/12/2018 11:44:04 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< A >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

=====
 Manual Integration Fixes

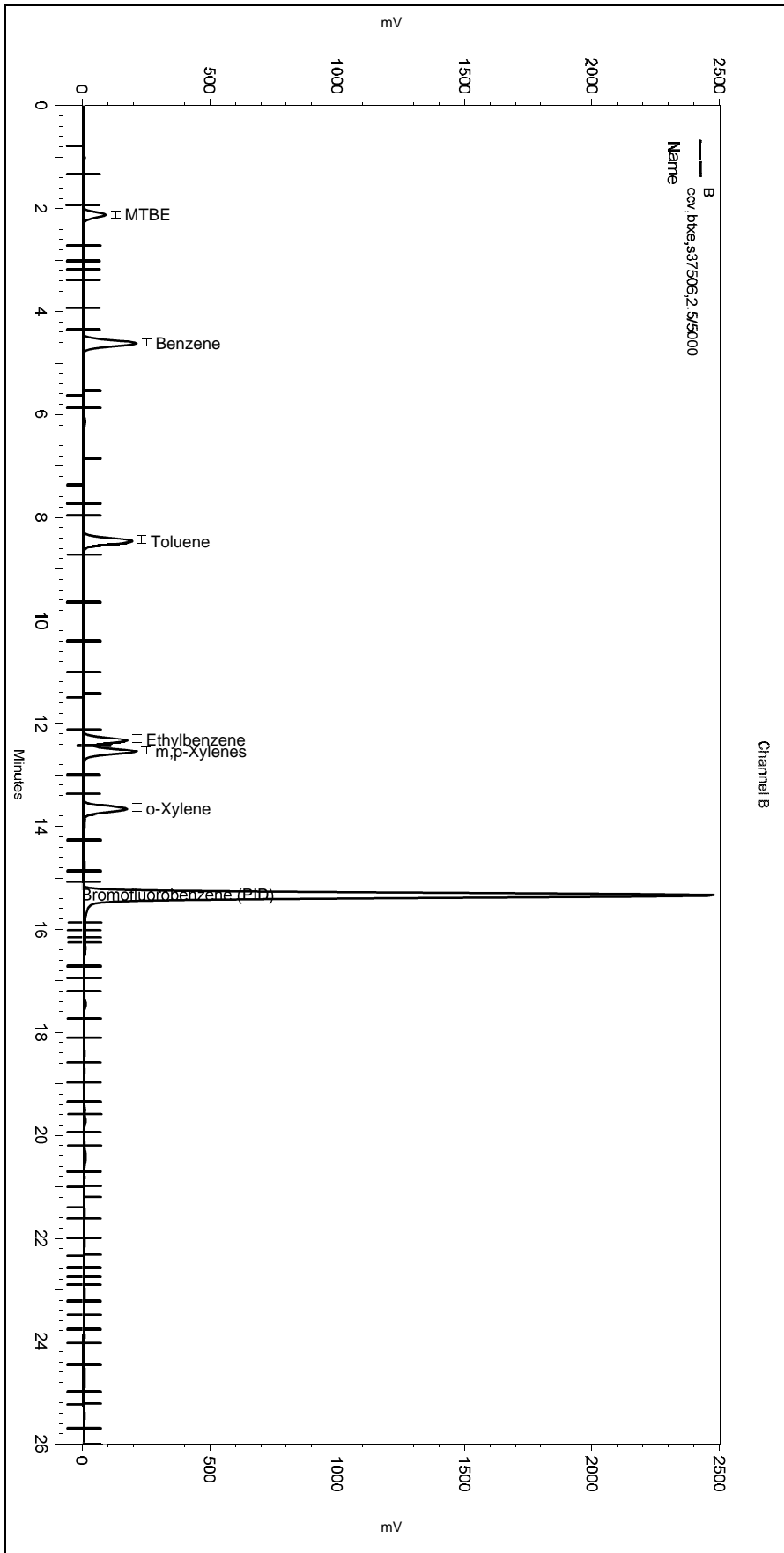
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-004_65C8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-004
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 11:15:22 AM
 Analysis Date: 7/12/2018 11:44:04 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

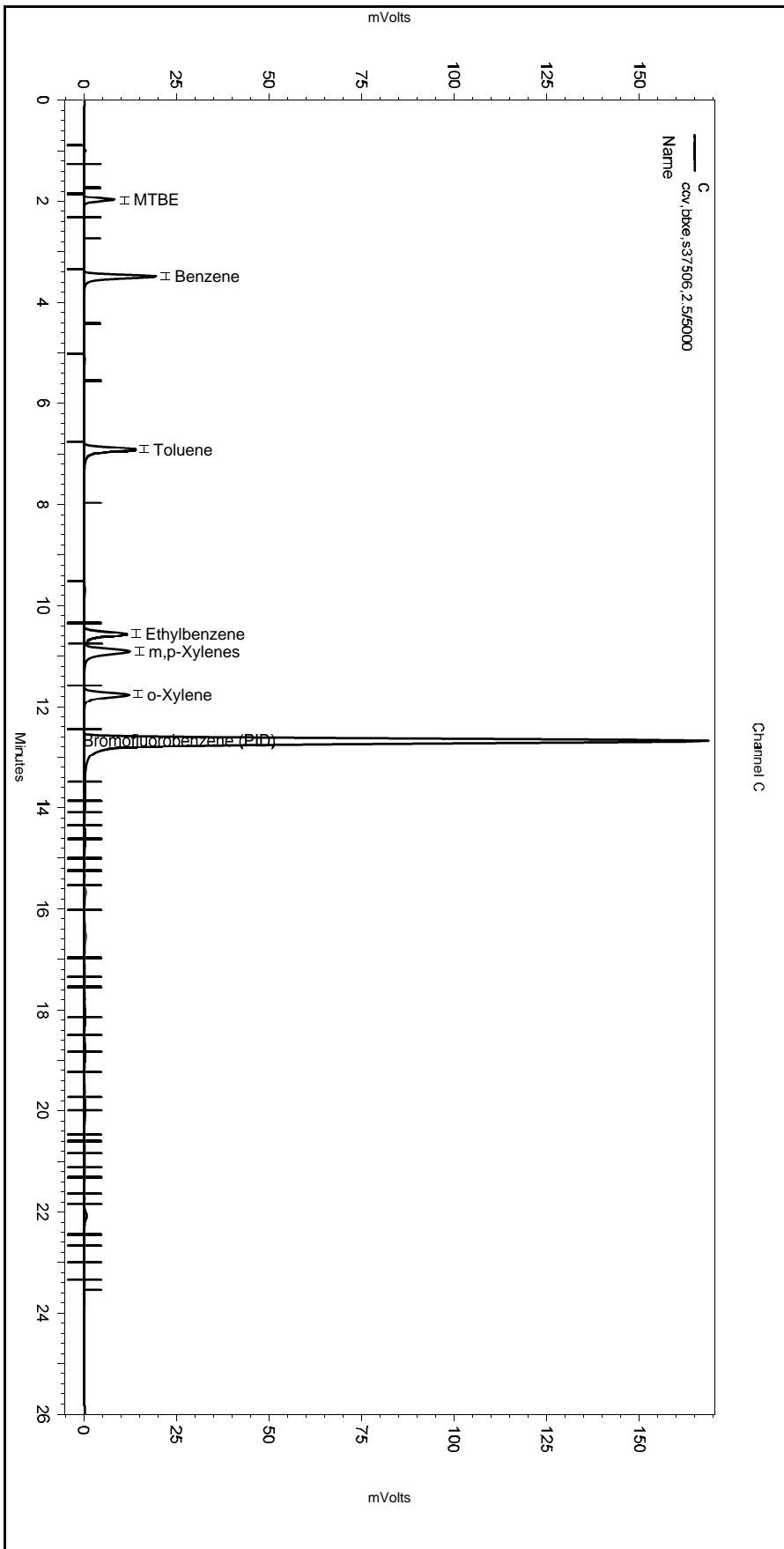
=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-004_65C8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-004
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 11:15:22 AM
 Analysis Date: 7/12/2018 11:44:04 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-004_65C8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

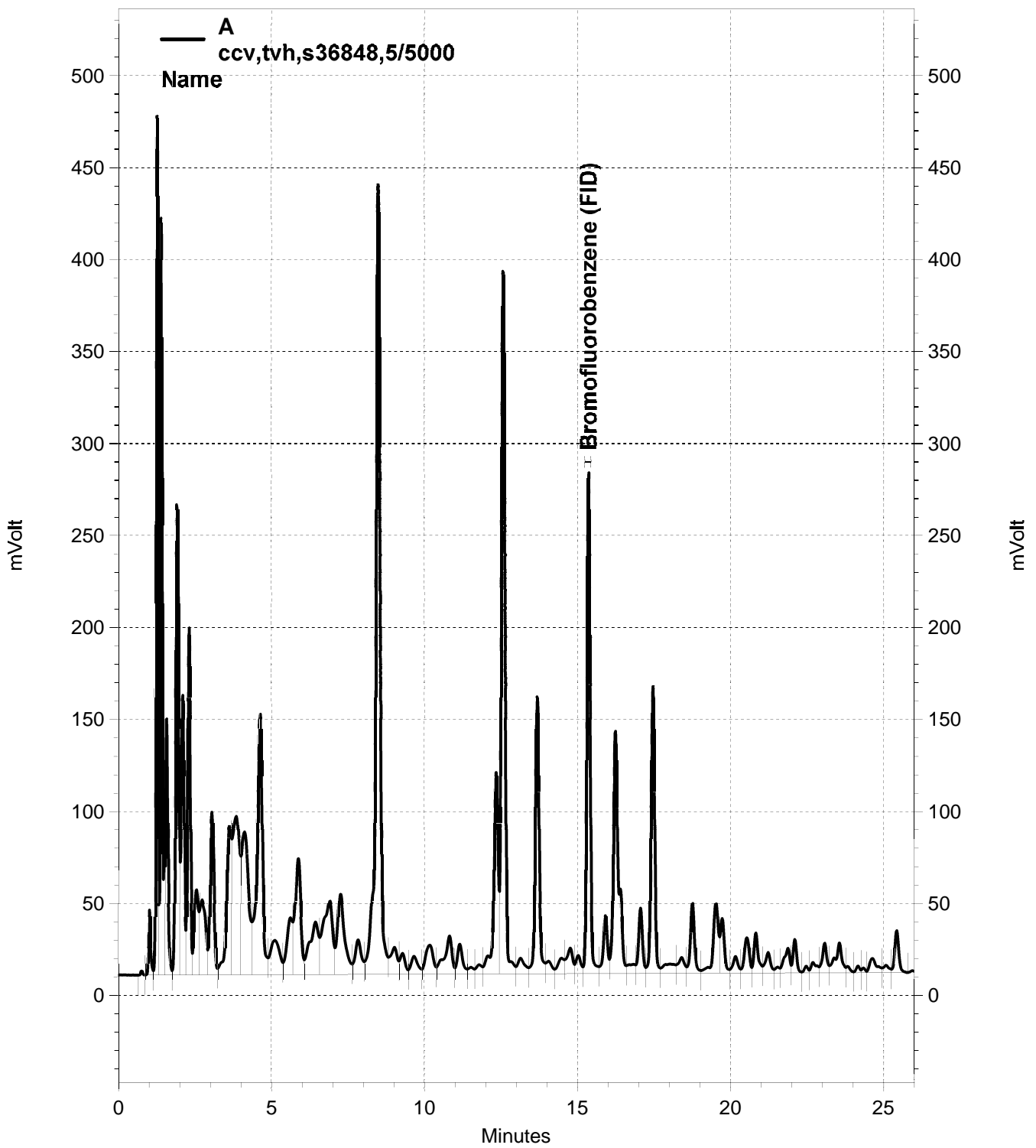
Channel C

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328278480012 File : 193_012 Time : 12-JUL-2018 16:38
 Cal : 328275574001 Caldate : 10-JUL-2018
 Standards: S36848 (1000X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2503.5	2407.5	10000	9617	ng	-4	15	
Bromofluorobenzene (FID)	A	2237.7	2237.5	900.0	899.9	ng	0	15	

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-012, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: ccv,tvh,s36848,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-012
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/12/2018 4:38:39 PM
Analysis Date: 7/12/2018 5:07:22 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.333	2013790	899.937
GAS:6-10			24740452	9769.454
GAS:6-12			30600376	9614.465
GAS:7-12			24075344	9616.837
JP4:7-12			24075344	6421.461

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.650	4.600	4275779	126.830
Toluene	8.483	8.433	22204741	702.210
Ethylbenzene	12.350	12.300	4309375	156.198
m,p-Xylenes	12.567	12.517	19255755	559.740
o-Xylene	13.683	13.633	6664632	236.755
Bromofluorobenzene (PID)	15.367	15.317	23018441	903.919

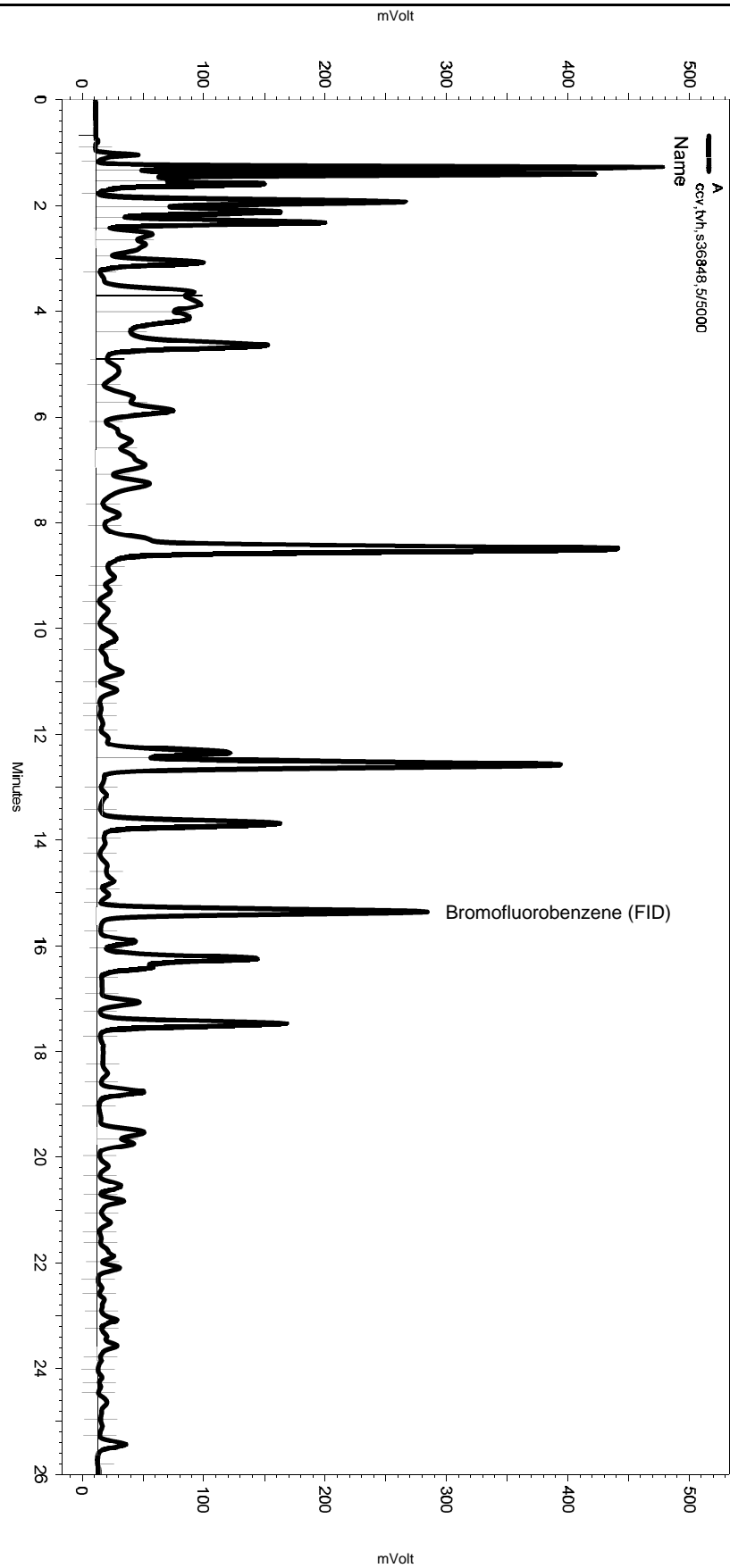
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	1.983	71757	99.582
Benzene	3.516	3.483	246303	114.058
Toluene	6.916	6.900	1430205	721.553
Ethylbenzene	10.566	10.549	274085	167.790
m,p-Xylenes	10.899	10.899	1254419	564.519
o-Xylene	11.766	11.749	424502	221.191
Bromofluorobenzene (PID)	12.666	12.649	1490602	860.201

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-012
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 4:38:39 PM
 Analysis Date: 7/12/2018 5:07:22 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

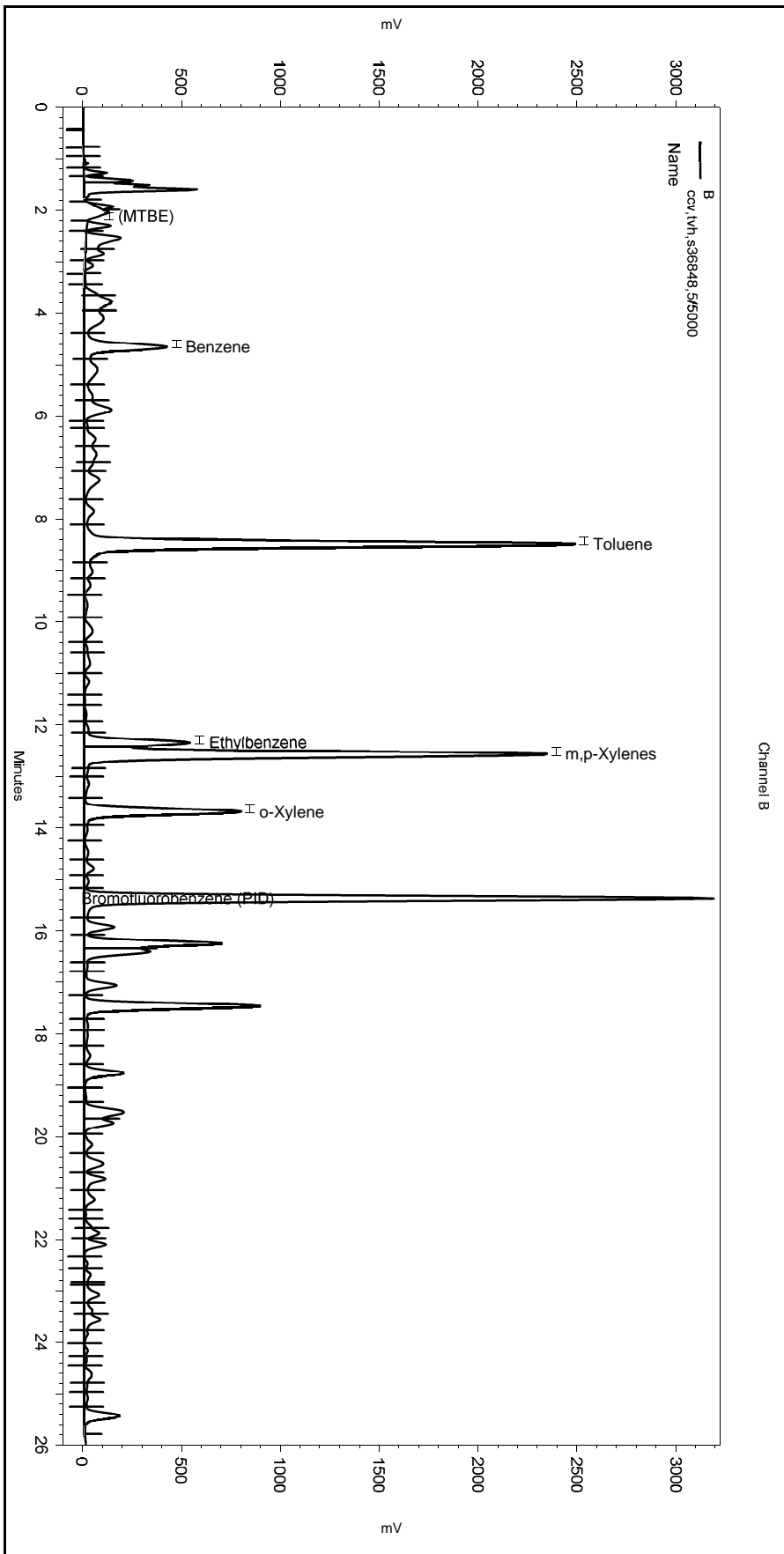
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-012_65D0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-012
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 4:38:39 PM
 Analysis Date: 7/12/2018 5:07:22 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

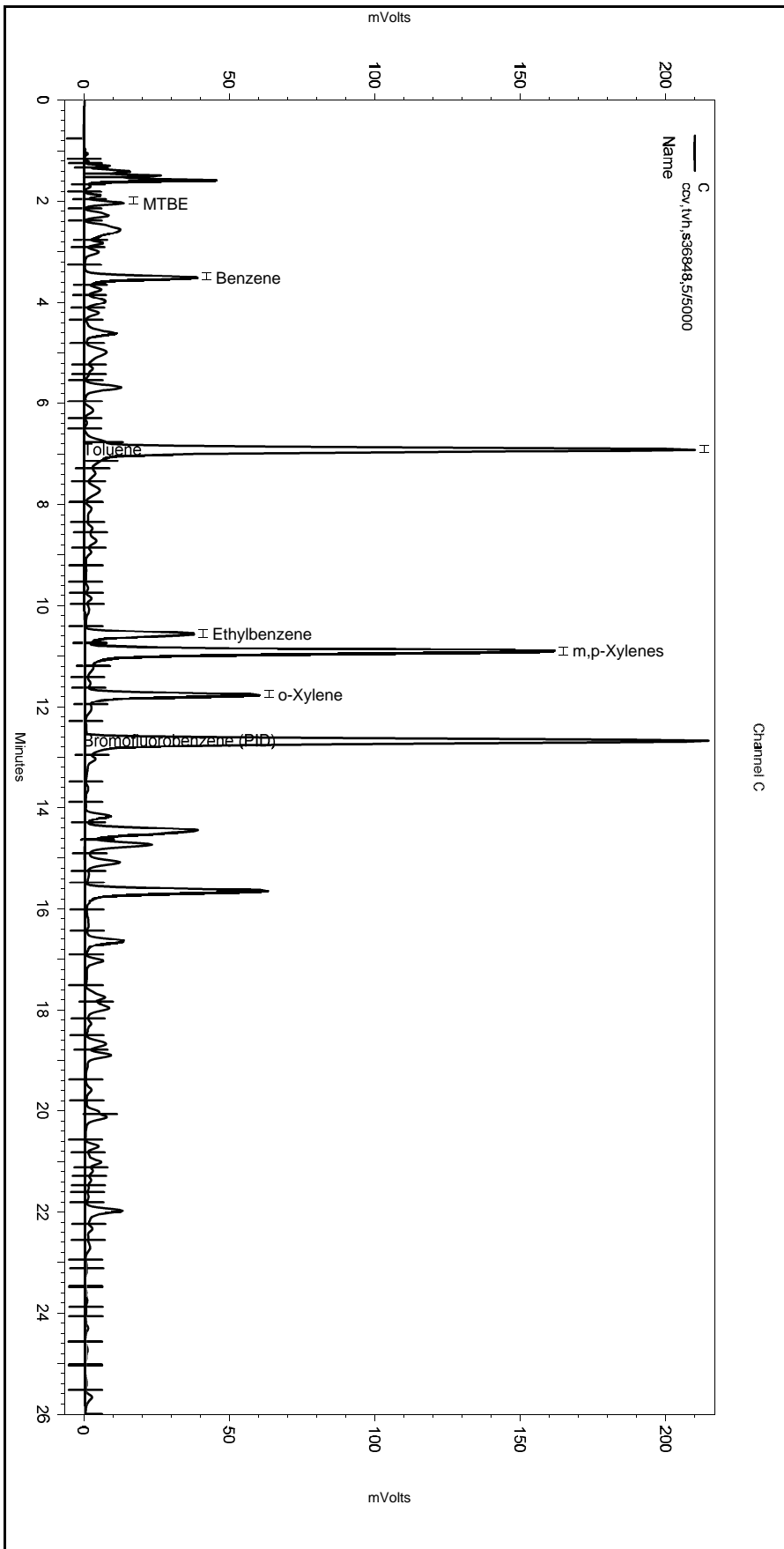
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-012_65D0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-012
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 4:38:39 PM
 Analysis Date: 7/12/2018 5:07:22 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-012_65D0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8021B

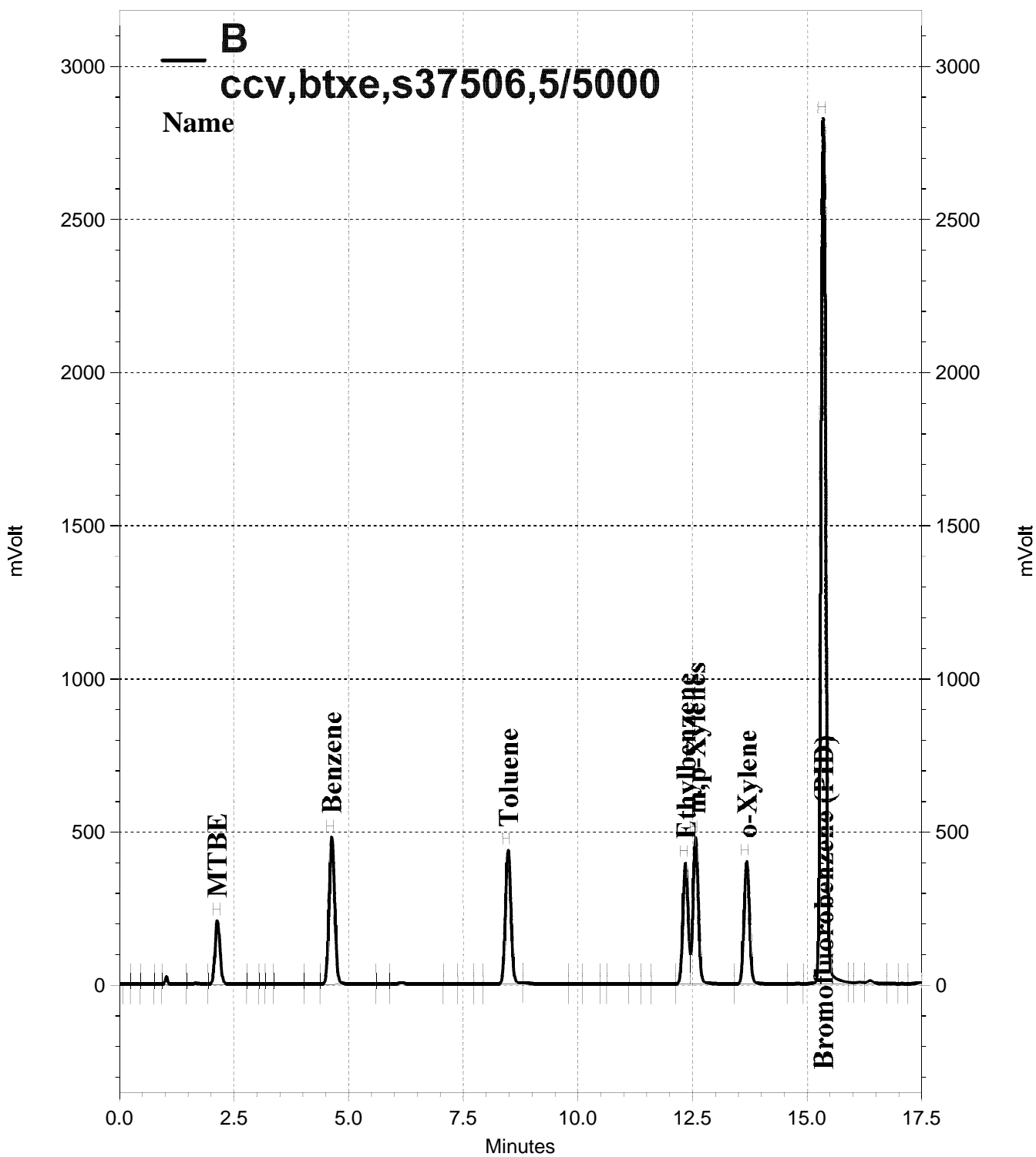
Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328278480015 File : 193_015 Time : 12-JUL-2018 18:33
 Cal : 328176634001 Caldate : 02-MAY-2018
 Standards: S37506 (1000X), S37192 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	B	33713	41342	100.0	122.6	ng	23	15	c+ ***
Toluene	B	31621	37173	100.0	117.6	ng	18	15	c+ ***
Ethylbenzene	B	27589	31316	100.0	113.5	ng	14	15	
m,p-Xylenes	B	34401	39408	100.0	114.6	ng	15	15	
o-Xylene	B	28150	33465	100.0	118.9	ng	19	15	c+ ***
Bromofluorobenzene (PID)	B	25465	22899	900.0	809.3	ng	-10	15	
Benzene	C	2159.5	2654.1	100.0	122.9	ng	23	15	c+ ***
Toluene	C	1982.1	2357.6	100.0	118.9	ng	19	15	c+ ***
Ethylbenzene	C	1633.5	1990.3	100.0	121.8	ng	22	15	c+ ***
m,p-Xylenes	C	2222.1	2501.7	100.0	112.6	ng	13	15	
o-Xylene	C	1919.2	2133.3	100.0	111.2	ng	11	15	
Bromofluorobenzene (PID)	C	1732.9	1492.3	900.0	775.1	ng	-14	15	

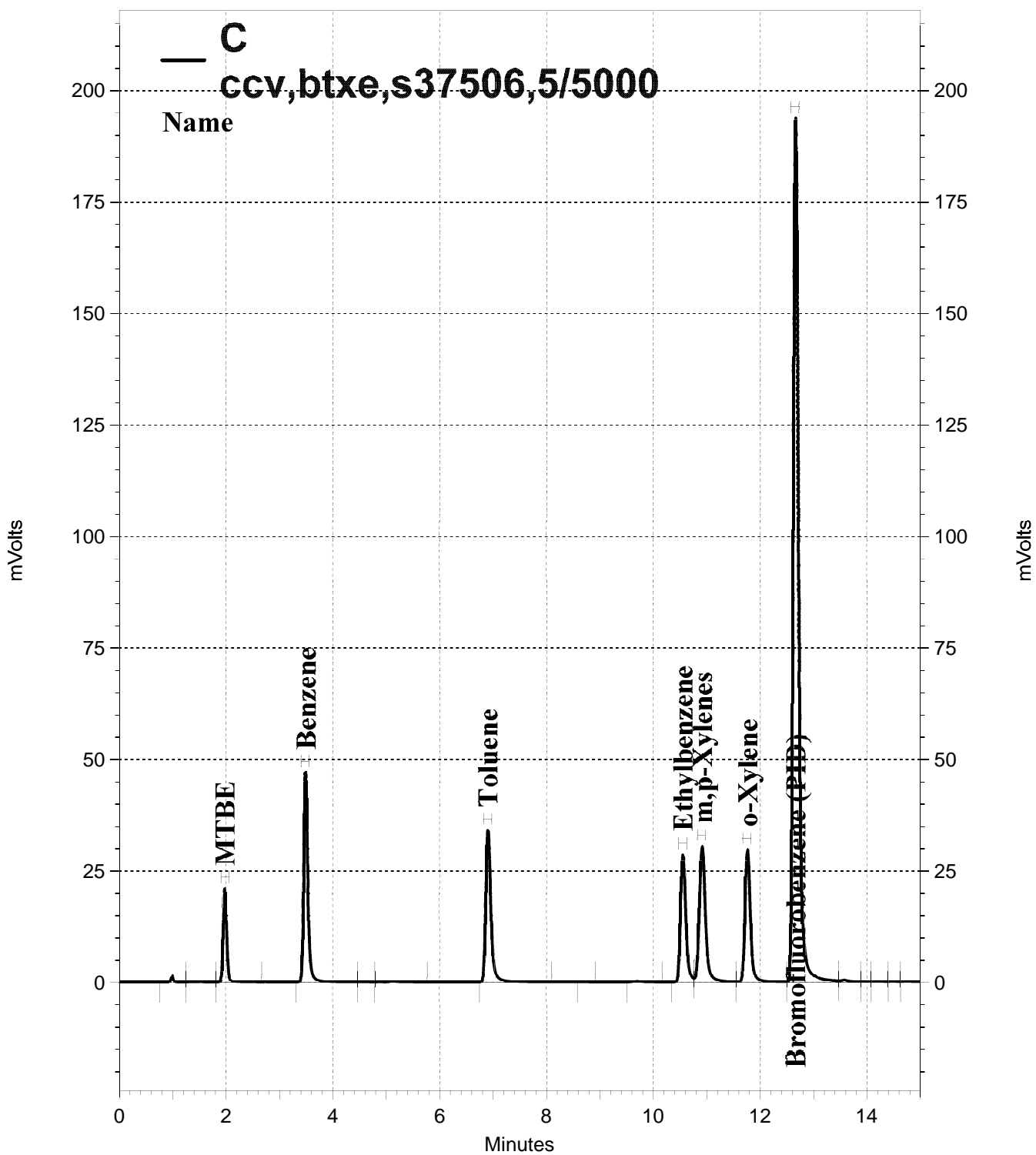
CJN 07/13/18 : Out high, reporting ND samples.

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18

+ = high bias c = CCV



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-015, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\193-015, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: ccv,btxe,s37506,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-015
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/12/2018 6:33:36 PM
Analysis Date: 7/12/2018 7:02:20 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	1780605	795.729
GAS:6-10			3332020	1315.741
GAS:6-12			3446965	1083.017
GAS:7-12			3431361	1370.649
JP4:7-12			3431361	915.225

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.117	1601489	138.954
Benzene	4.633	4.600	4134211	122.631
Toluene	8.483	8.433	3717280	117.556
Ethylbenzene	12.350	12.300	3131581	113.508
m,p-Xylenes	12.567	12.517	3940816	114.554
o-Xylene	13.683	13.633	3346450	118.880
Bromofluorobenzene (PID)	15.350	15.317	20609304	809.314

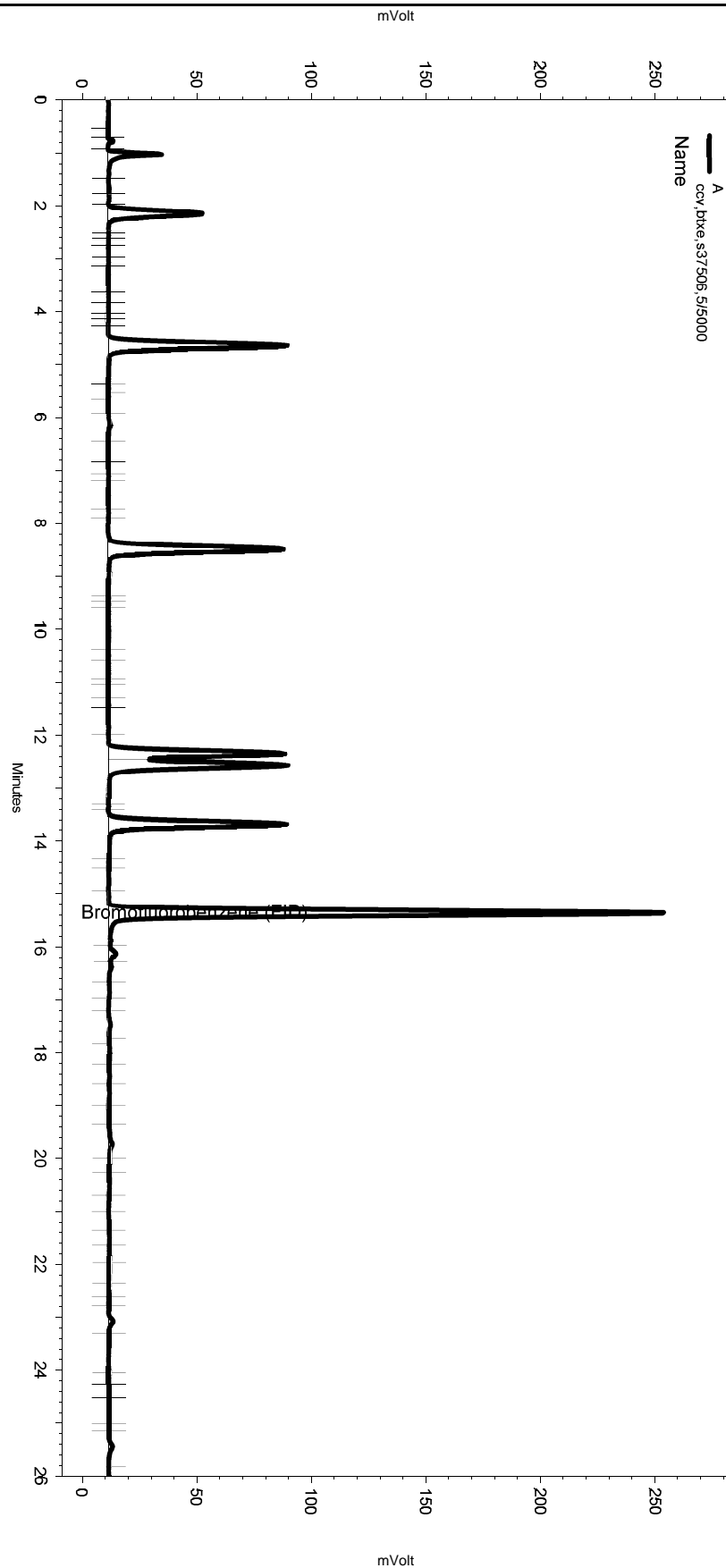
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	98785	137.091
Benzene	3.500	3.483	265406	122.904
Toluene	6.900	6.900	235755	118.941
Ethylbenzene	10.549	10.549	199032	121.844
m,p-Xylenes	10.916	10.899	250170	112.583
o-Xylene	11.766	11.749	213334	111.160
Bromofluorobenzene (PID)	12.666	12.649	1343061	775.057

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,btxe,s37506,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-015
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 6:33:36 PM
 Analysis Date: 7/12/2018 7:02:20 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

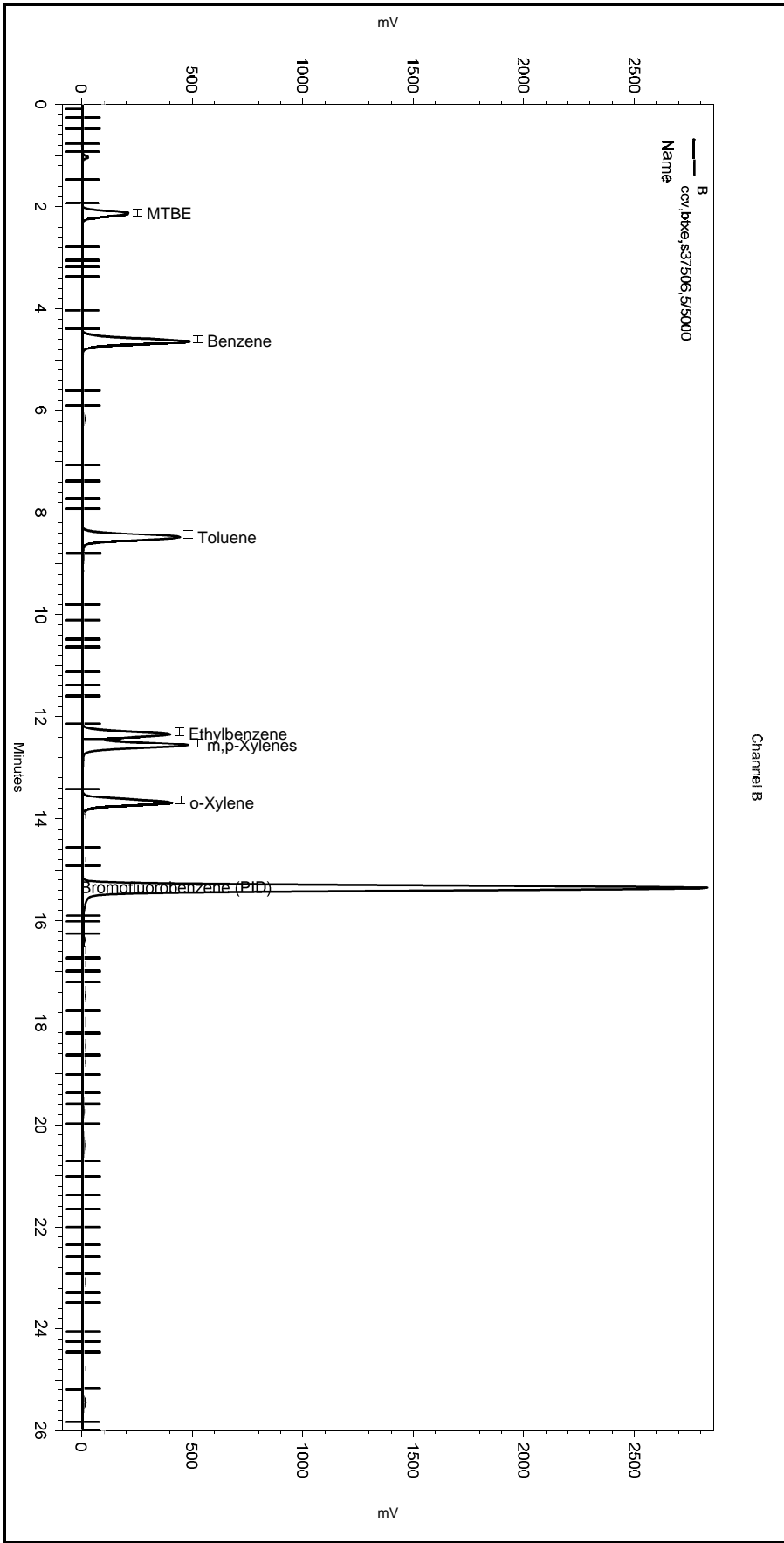
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-015_65D3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,btXe,s37506,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-015
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtXe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 6:33:36 PM
 Analysis Date: 7/12/2018 7:02:20 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

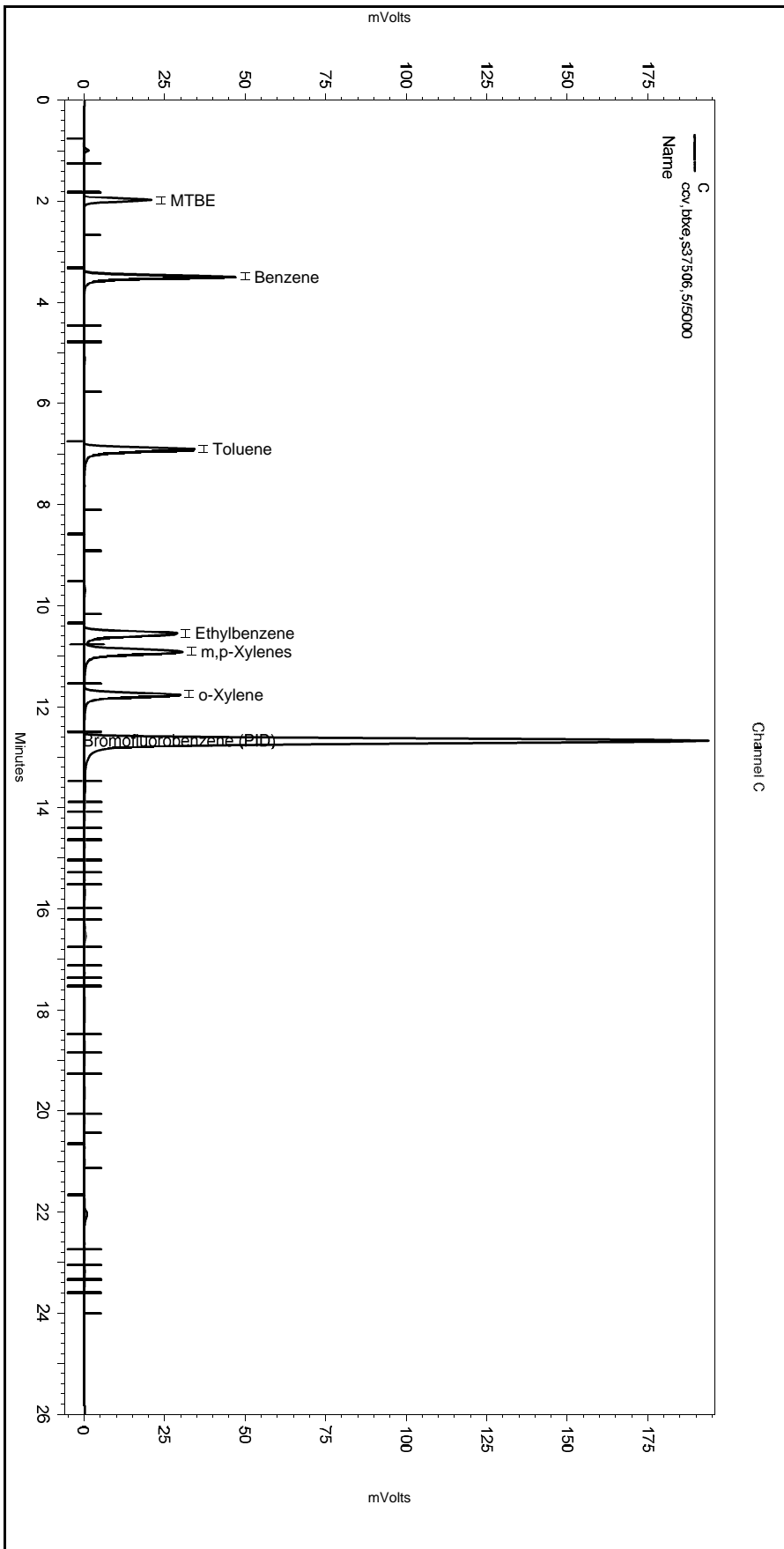
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-015_65D3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,btxe,s37506,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-015
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/12/2018 6:33:36 PM
 Analysis Date: 7/12/2018 7:02:20 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-015_65D3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

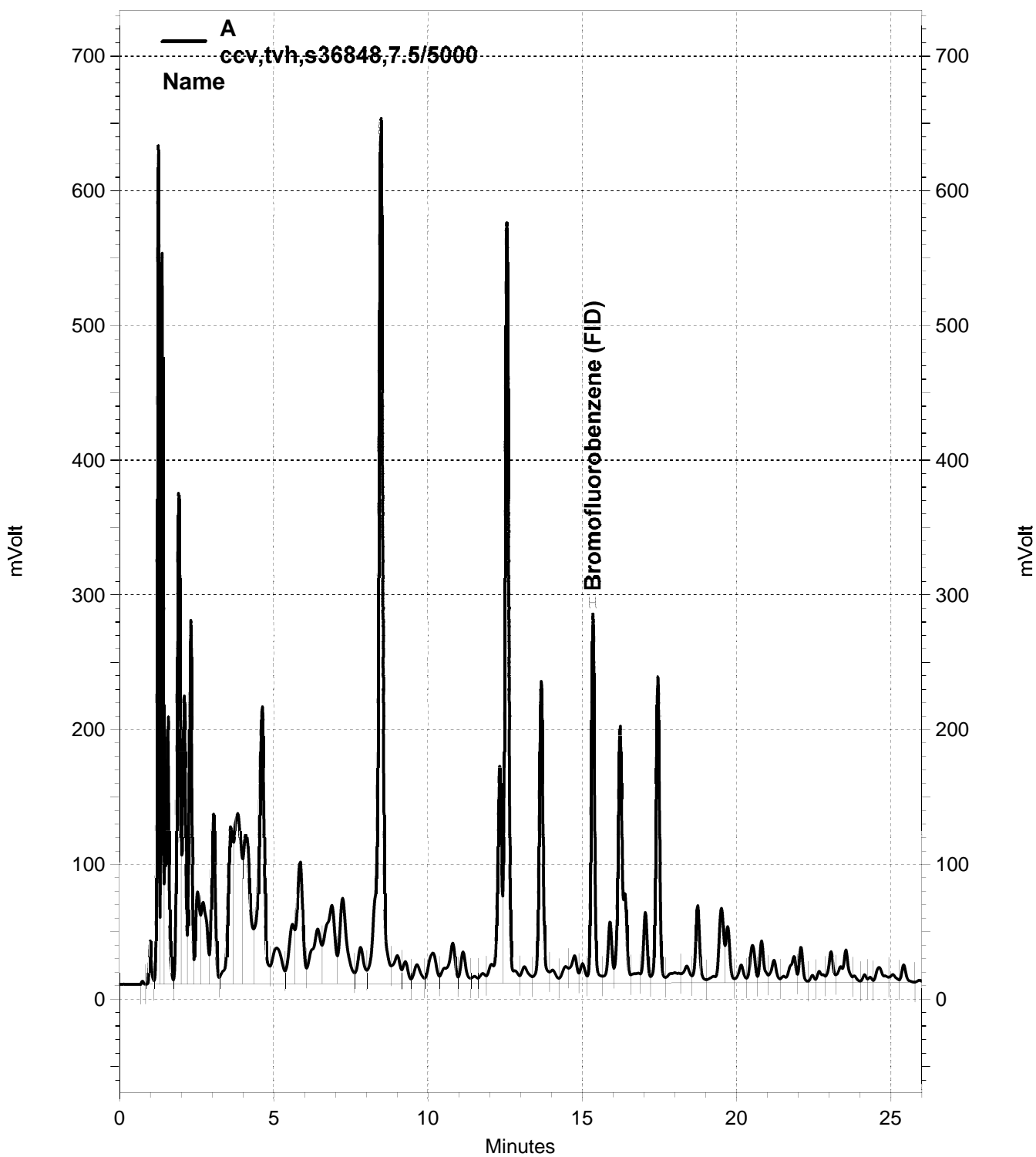
Channel C

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 328278480026 File : 193_026 Time : 13-JUL-2018 01:34
 Cal : 328275574001 Caldate : 10-JUL-2018
 Standards: S36848 (666.7X), S37192 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2503.5	2338.6	15000	14010	ng	-7	15	
Bromofluorobenzene (FID)	A	2237.7	2272.1	900.0	913.8	ng	2	15	

Analyst: CJN Date: 07/13/18 Reviewer: EAH Date: 07/13/18



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-026, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\193.seq
Sample Name: ccv,tvh,s36848,7.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-026
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/13/2018 1:34:14 AM
Analysis Date: 7/13/2018 2:02:58 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.333	2044898	913.838
GAS:6-10			36009860	14219.492
GAS:6-12			44488236	13977.950
GAS:7-12			35078676	14012.089
JP4:7-12			35078676	9356.308

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.117		0.000 BDL
Benzene	4.650	4.600	6478949	192.182
Toluene	8.483	8.433	33083410	1046.240
Ethylbenzene	12.333	12.300	6307520	228.623
m,p-Xylenes	12.567	12.517	28212636	820.105
o-Xylene	13.667	13.633	9888406	351.277
Bromofluorobenzene (PID)	15.350	15.317	23132401	908.394

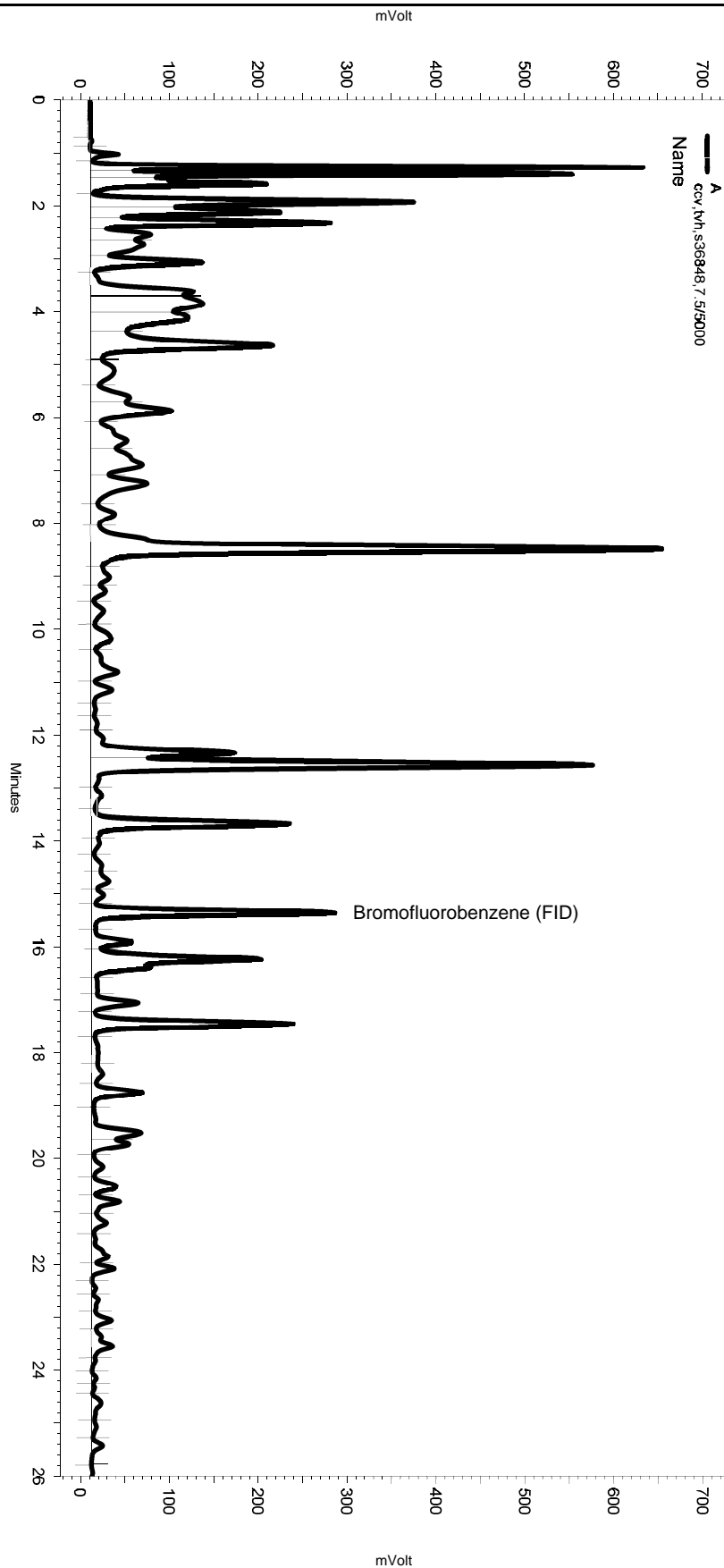
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene	3.516	3.483	376759	174.470
Toluene	6.916	6.900	2150236	1084.817
Ethylbenzene	10.549	10.549	412164	252.319
m,p-Xylenes	10.899	10.899	1847594	831.462
o-Xylene	11.766	11.749	637760	332.311
Bromofluorobenzene (PID)	12.666	12.649	1517879	875.942

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,7.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-026
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/13/2018 1:34:14 AM
 Analysis Date: 7/13/2018 2:02:58 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

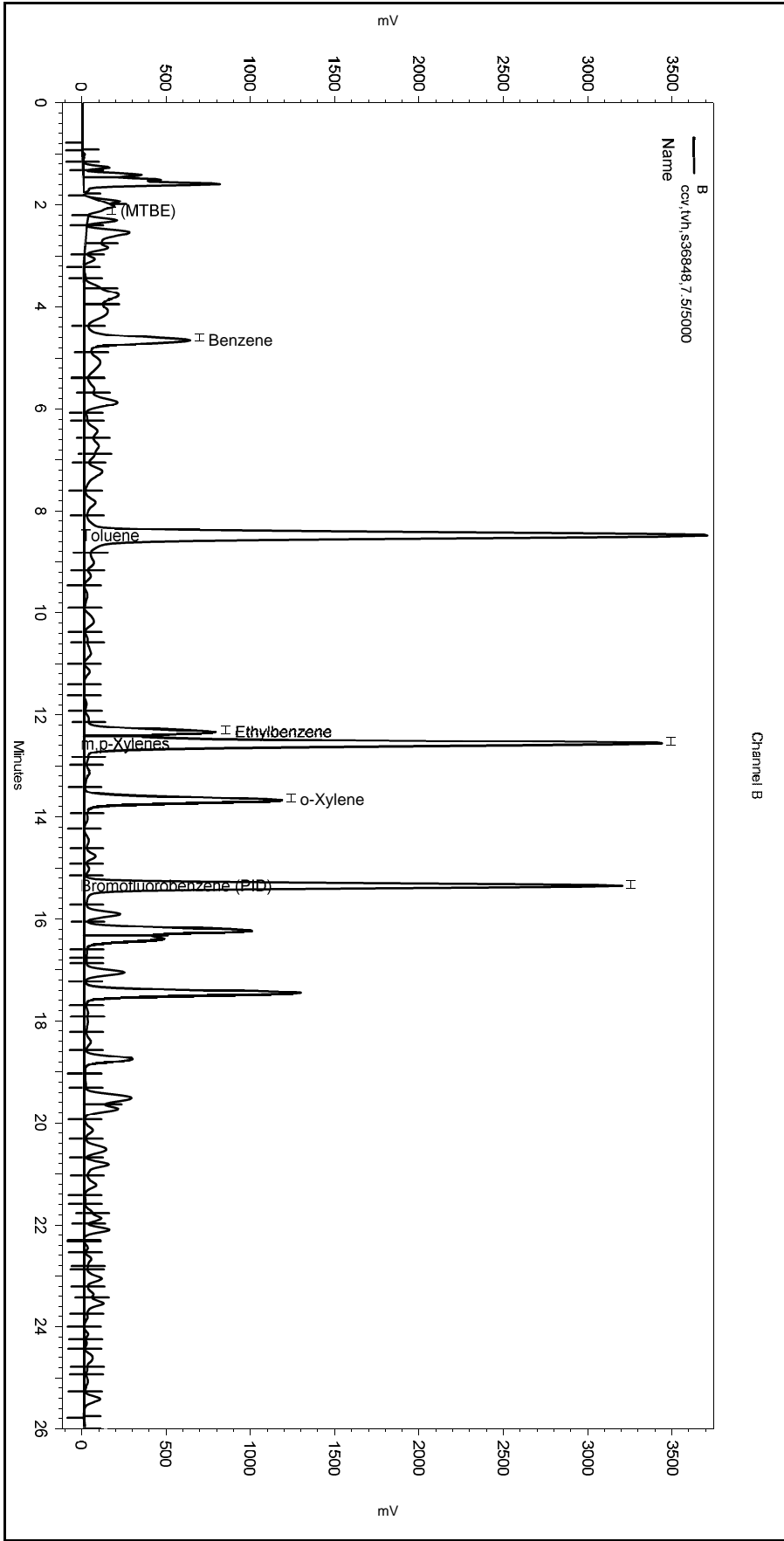
=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10049\193-026_65DE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,7.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-026
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe191.met

Software Version 3.1.7
 Run Date: 7/13/2018 1:34:14 AM
 Analysis Date: 7/13/2018 2:02:58 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

=====
 Manual Integration Fixes

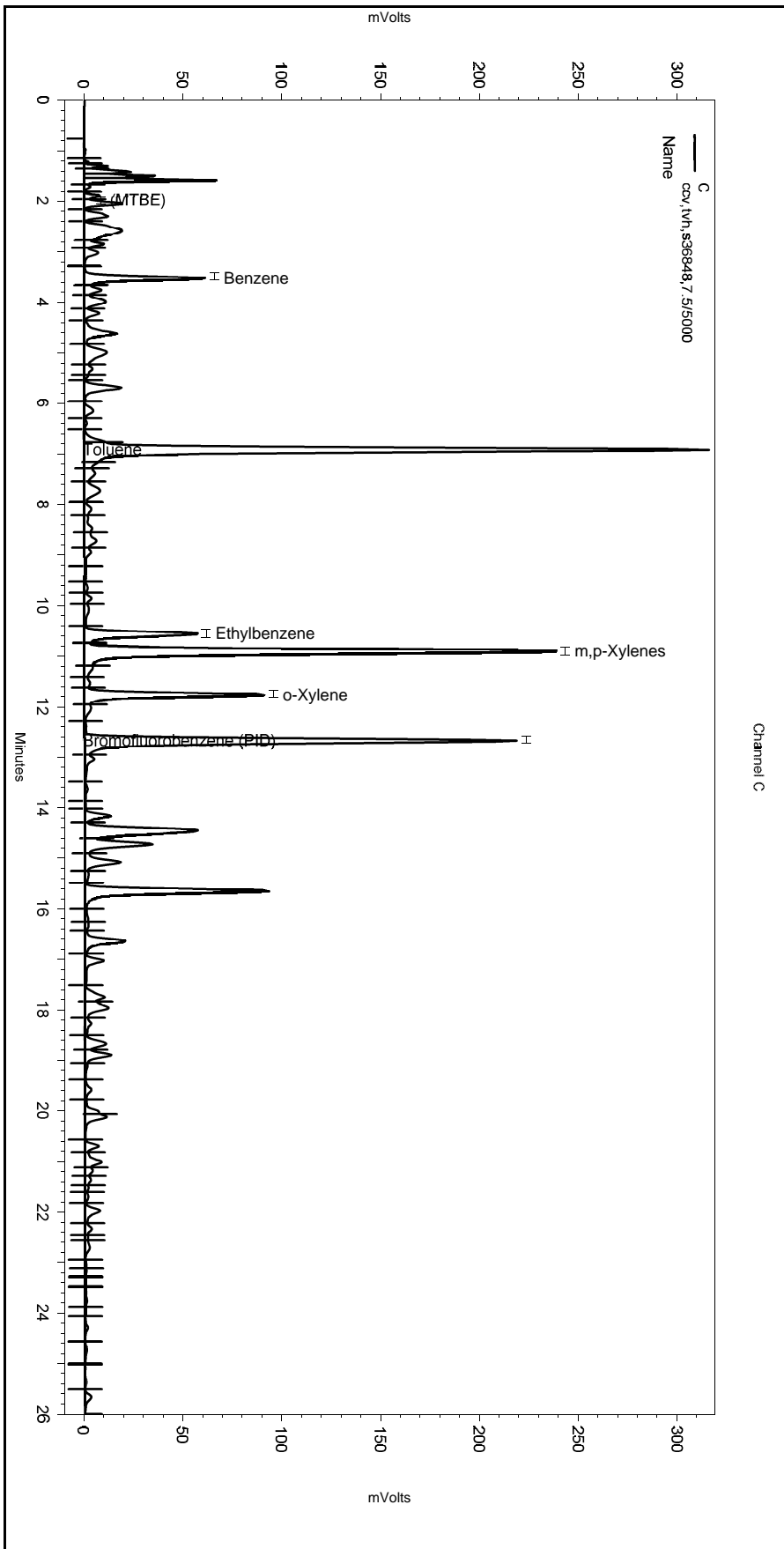
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-026_65DE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\193.seq
 Sample Name: ccv,tvh,s36848,7.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\193-026
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe191.met

Software Version 3.1.7
 Run Date: 7/13/2018 1:34:14 AM
 Analysis Date: 7/13/2018 2:02:58 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\193-026_65DE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 301314

ANALYTICAL REPORT

TPH-Extractables by GC

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Avenue
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	301314-001
BR11-1GW03	301314-002
BR11-1GW02	301314-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Mike Dahlquist
Project Manager
mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

Date: 07/17/2018

CA ELAP# 2896, NELAP# 4044-001

**CASE NARRATIVE
TPH-EXTRACTABLES BY GC (EPA 8015B)**

Laboratory number: **301314**
Client: **TRC Solutions**
Project: **285830.02.01**
Location: **Riley Avenue**
Request Date: **07/06/18**
Samples Received: **07/06/18**

This data package contains sample and QC results for three water samples, requested for the above referenced project on 07/06/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):

Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 261242; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank.

No other analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 301314 Client: TRE
 Date Received: 7-6-18 Project: Riley Ave

Section 2: Samples received in a cooler? Yes, how many? 1 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun # A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 7-6-18 By (print) [Signature] (sign) [Signature]
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important: Notify PM if temperature exceeds 6°C or arrive frozen.**
 Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 2.8, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?		<input checked="" type="checkbox"/>	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?			<input checked="" type="checkbox"/>
Did you change the hold time in LIMS for preserved terracores?			<input checked="" type="checkbox"/>
Are bubbles > 6mm absent in VOA samples?		<input checked="" type="checkbox"/>	
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			<input checked="" type="checkbox"/>
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check? pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:
 Explanations/Comments: 4/1 VOAs arrived with bubbles for sample 4

Date Logged in 7-6-18 By (print) TRE (sign) [Signature]
 Date Labeled 7-7-18 By (print) [Signature] (sign) [Signature]

Results & QC Summary

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	261242
Units:	ug/L	Prepared:	07/09/18
Diln Fac:	1.000	Analyzed:	07/10/18

Type: BS Lab ID: QC938837

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,588	104	56-120

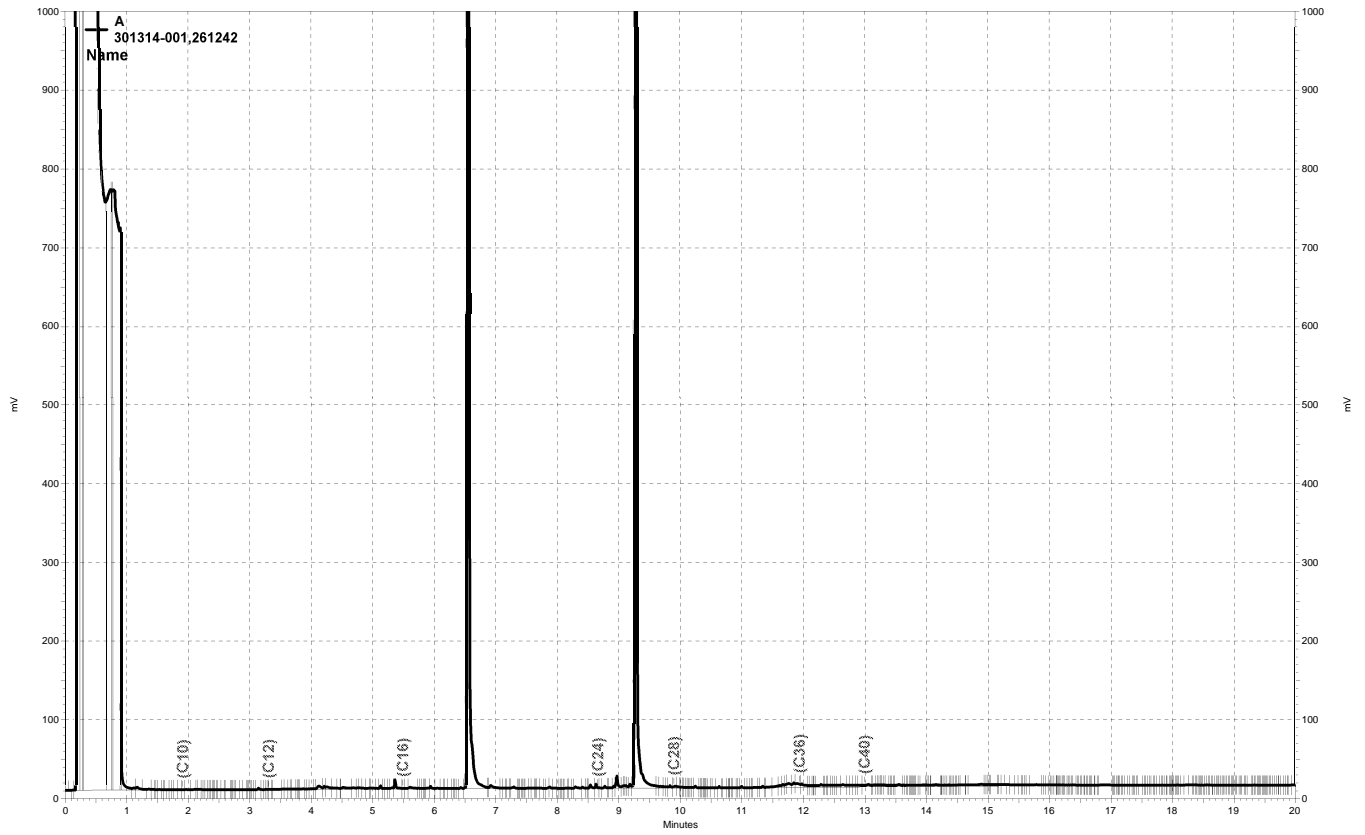
Surrogate	%REC	Limits
o-Terphenyl	112	58-123

Type: BSD Lab ID: QC938838

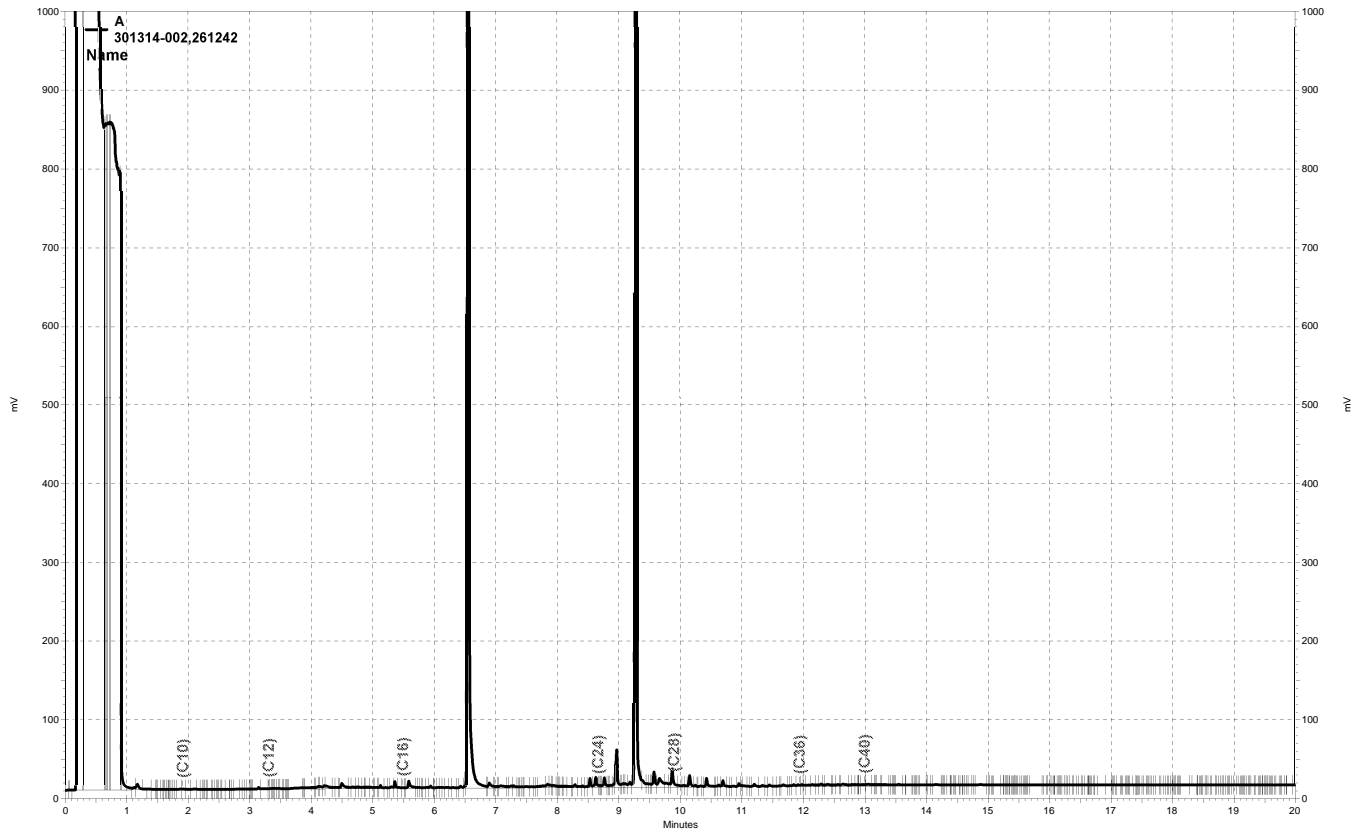
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,585	103	56-120	0	28

Surrogate	%REC	Limits
o-Terphenyl	112	58-123

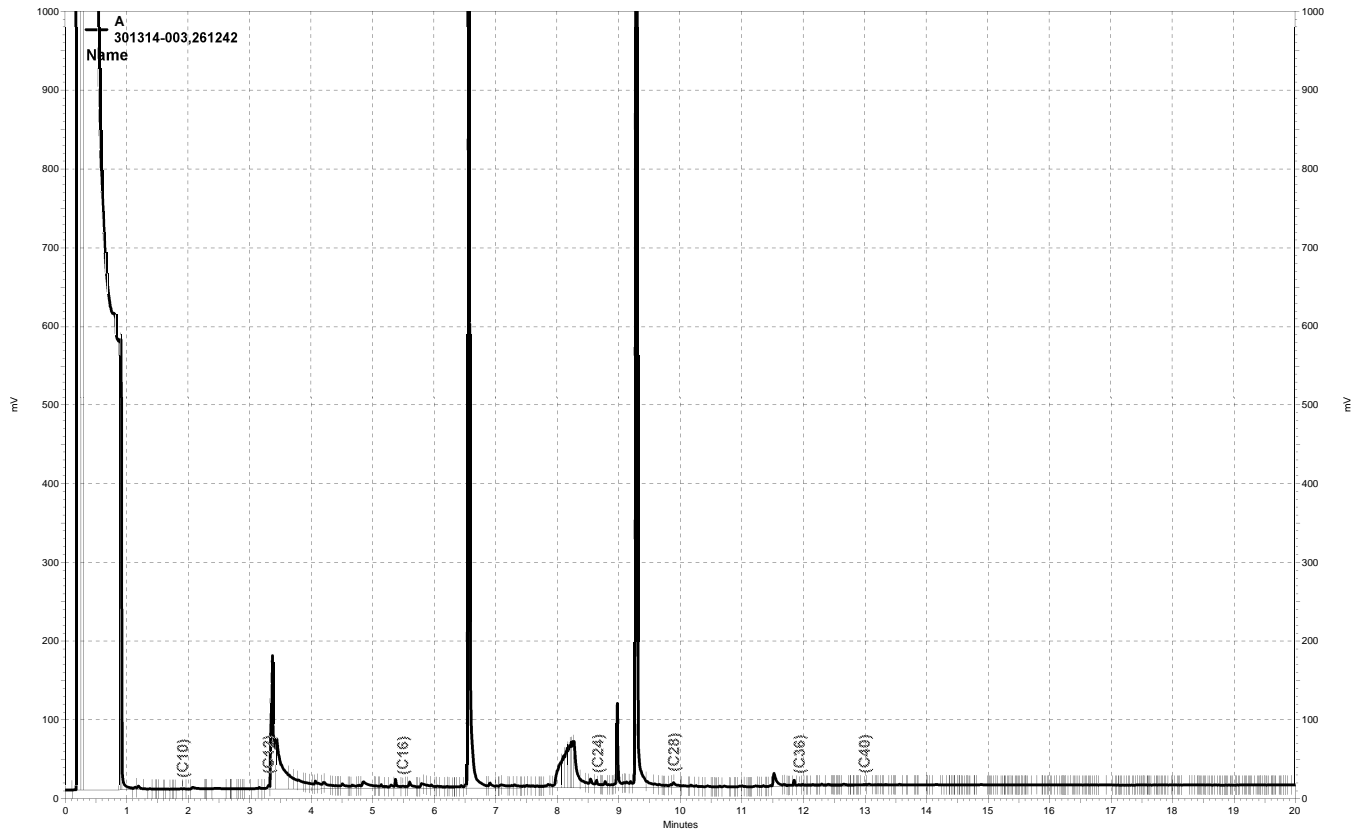
RPD= Relative Percent Difference



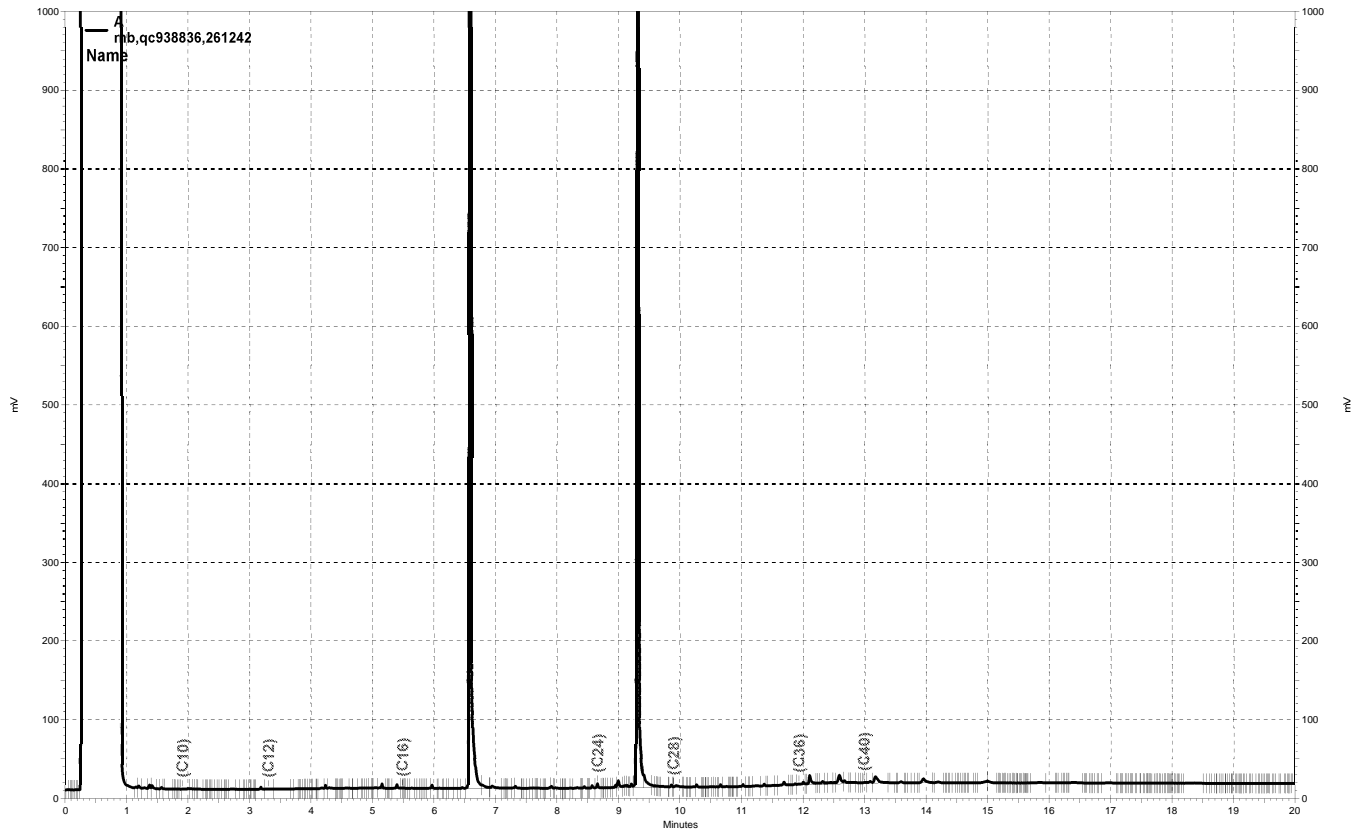
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a015, A



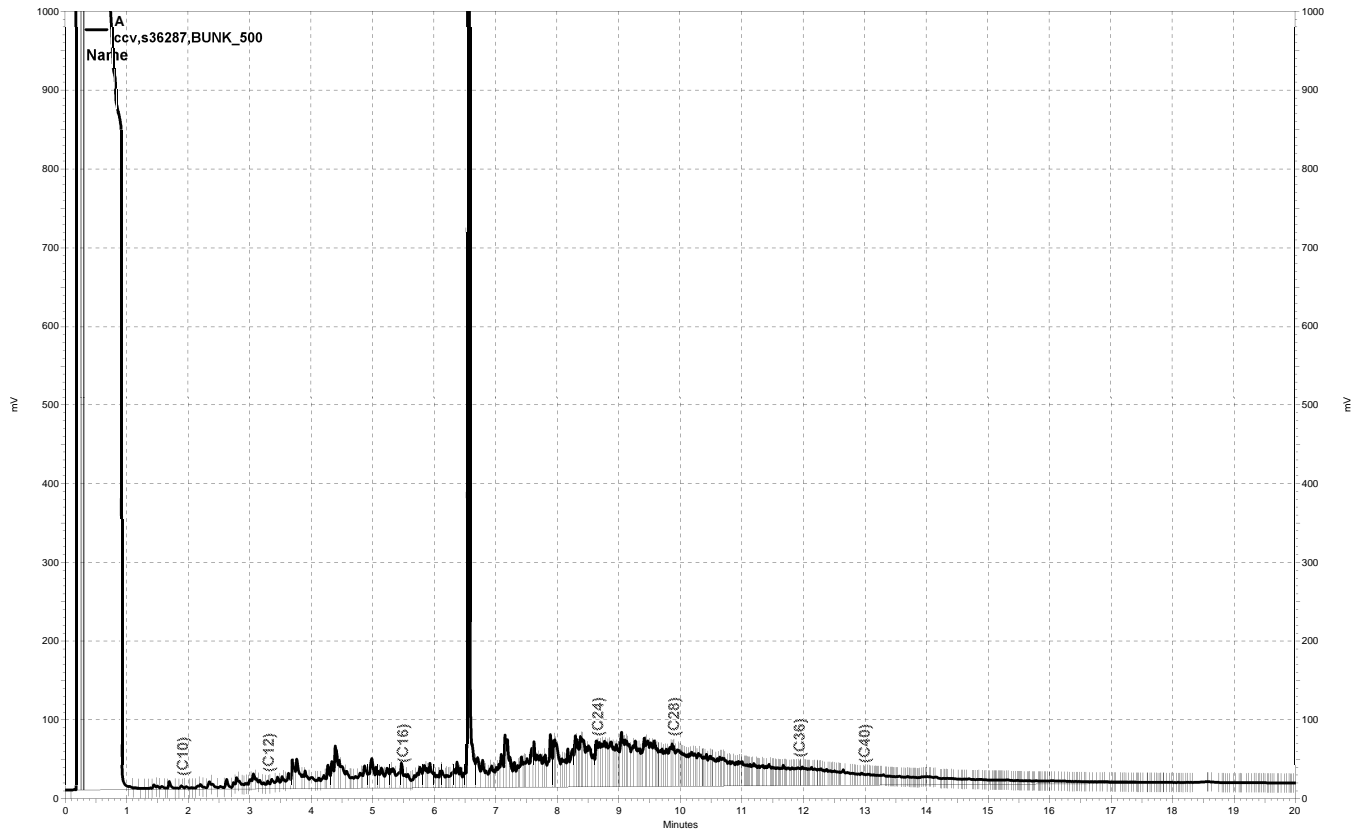
— \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a016, A



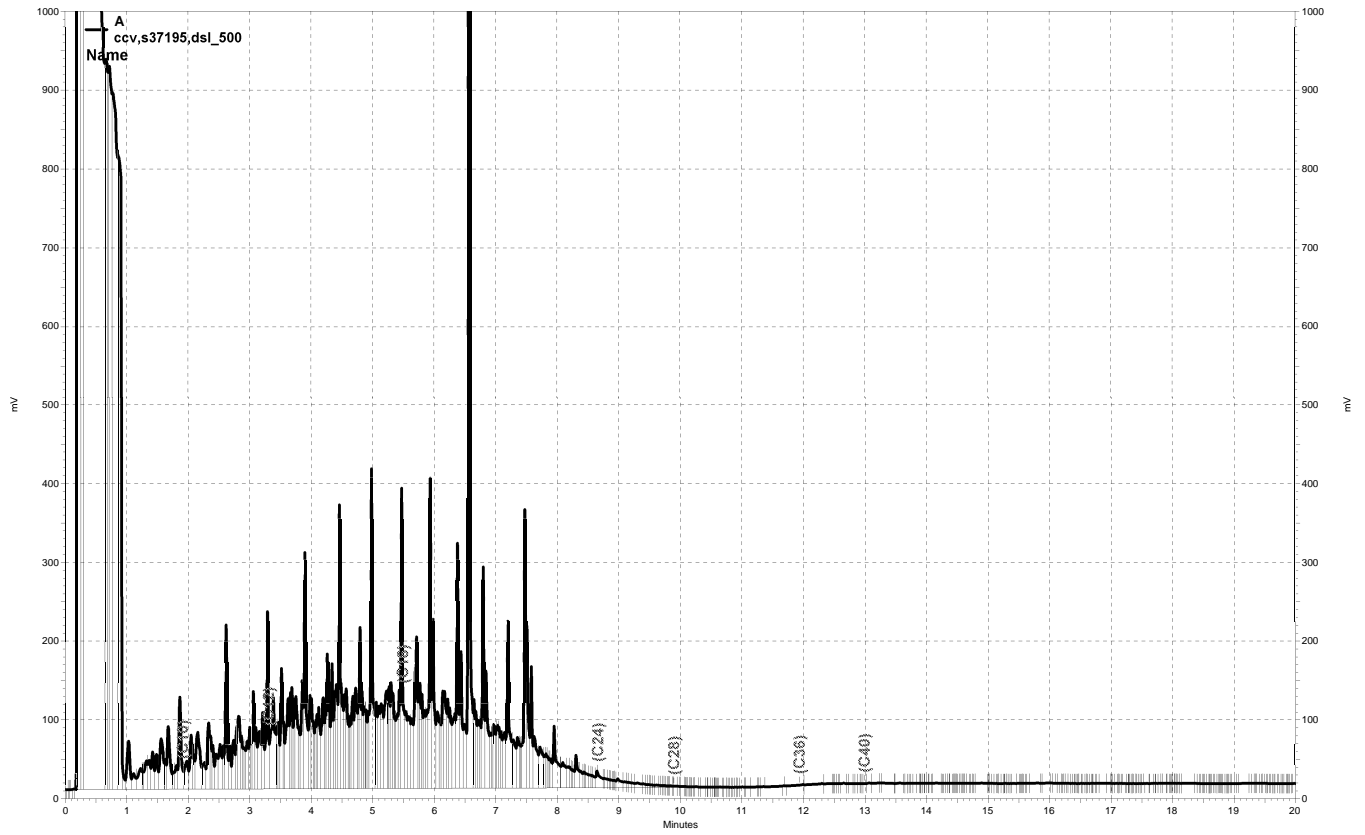
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a017, A



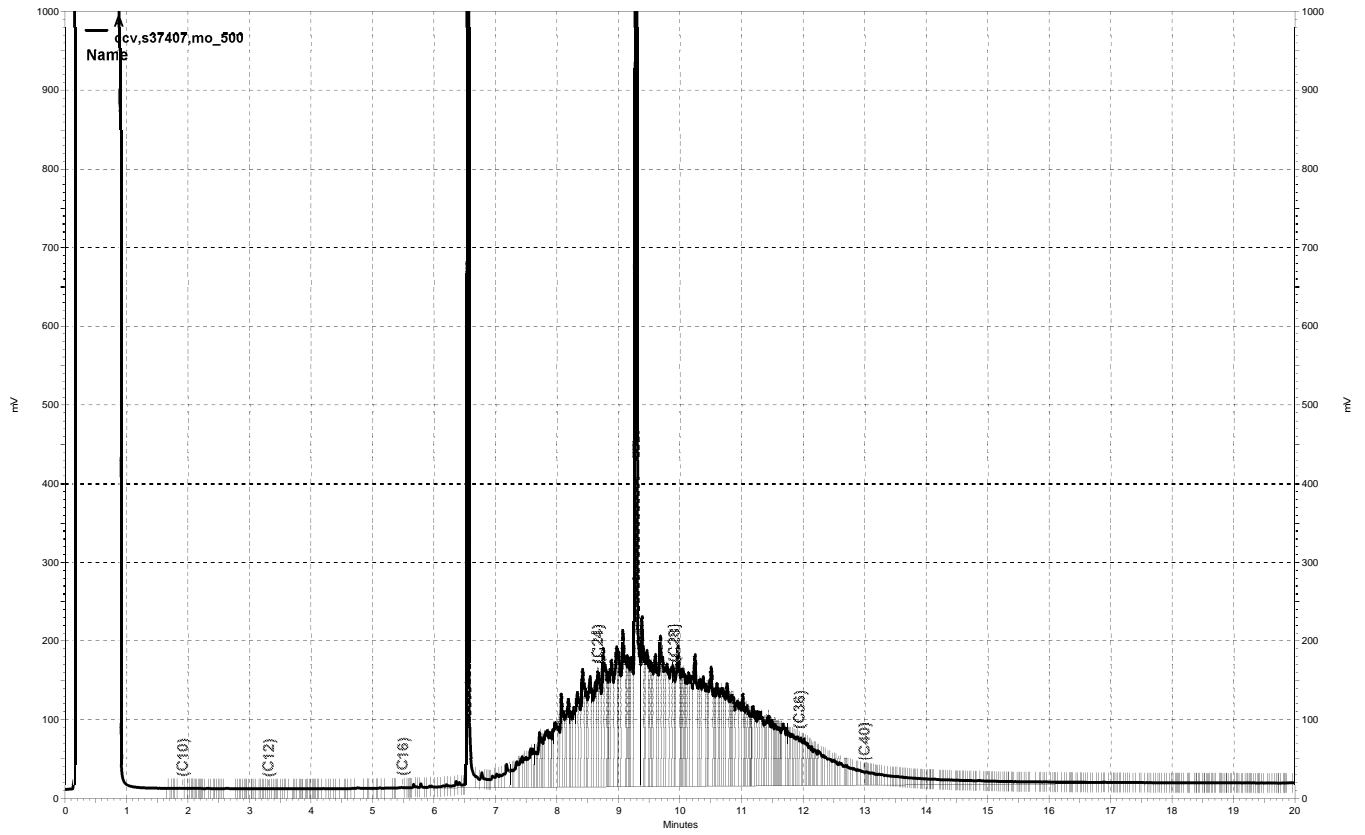
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a009, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a003, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a004, A

ENTHALPY INITIAL CALIBRATION FOR 301314 GCSV Water: EPA 8015B

Inst : GC17A
 Calnum : 177456968001
 Units : mg/L

Name : BUNK_317
 Date : 13-NOV-2017 17:52
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	317a018	177456968018	BUNK_500	13-NOV-2017 17:52	S34383

Analyte	L1	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Bunker C C12-C40	29708	AVRG		3.37E-5		29708	0	0.995	20	

Spiked Amounts / Drifts	L1	%D
Bunker C C12-C40	500.00	0

Analyst: WA1

Date: 11/13/17

Reviewer: EAH

Date: 11/13/17

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : BUNK_500 IDF : 1.0
 Seqnum : 177456968018 File : 317a018 Time : 13-NOV-2017 17:52
 Standards: S34383

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Bunker C C12-C40	177456968001	13-NOV-2017	29708	29708	500.0	500.0	mg/L	0	15	
o-Terphenyl	177428213001	24-OCT-2017	92735	82657	50.00	44.57	mg/L	-11	15	

WA1 11/13/17 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 11/13/17 Reviewer: EAH Date: 11/13/17

ENTHALPY INITIAL CALIBRATION FOR 301314 GCSV Water: EPA 8015B

Inst : GC17A
 Calnum : 178265382004
 Units : mg/L

Name : HEXOTP_184
 Date : 03-JUL-2018 19:03
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a015	178265382015	HEXOTP_2.5	03-JUL-2018 19:03	S36499 (2X)
L2	184a016	178265382016	HEXOTP_5	03-JUL-2018 19:31	S36499
L3	184a017	178265382017	HEXOTP_10	03-JUL-2018 19:58	S36500
L4	184a018	178265382018	HEXOTP_25	03-JUL-2018 20:26	S36501
L5	184a019	178265382019	HEXOTP_50	03-JUL-2018 20:53	S36502
L6	184a020	178265382020	HEXOTP_100	03-JUL-2018 21:21	S36503

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	71270	76293	79399	80459	79467	78365	AVRG		1.29E-5		77542	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	-8	5.0000	-2	10.000	2	25.000	4	50.000	2	100.00	1

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301314 GCSV Water: EPA 8015B

Inst : GC17A
 Calnum : 178265382002
 Units : mg/L

Name : DSL_184
 Date : 03-JUL-2018 22:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a022	178265382022	DSL_10	03-JUL-2018 22:17	S36610
L2	184a023	178265382023	DSL_100	03-JUL-2018 22:45	S36611
L3	184a024	178265382024	DSL_500	03-JUL-2018 23:13	S36613
L4	184a025	178265382025	DSL_1000	03-JUL-2018 23:40	S36615
L5	184a026	178265382026	DSL_5000	04-JUL-2018 00:08	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	60168	65483	66739	66422	64707	AVRG		1.55E-5		64704	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-7	100.00	1	500.00	3	1000.0	3	5000.0	0

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 178265382002

Name : DSL_184
Cal Date : 03-JUL-2018

ICV 178265382028 (184a028 04-JUL-2018) stds: S35844

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	460.5	mg/L	-8	15	

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

ENTHALPY INITIAL CALIBRATION FOR 301314 GCSV Water: EPA 8015B

Inst : GC17A
 Calnum : 178265382003
 Units : mg/L

Name : MO_184
 Date : 04-JUL-2018 02:00
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a030	178265382030	MO_50	04-JUL-2018 02:00	S36946
L2	184a031	178265382031	MO_250	04-JUL-2018 02:28	S36948
L3	184a032	178265382032	MO_500	04-JUL-2018 02:55	S36949
L4	184a033	178265382033	MO_1000	04-JUL-2018 03:23	S36951
L5	184a034	178265382034	MO_2500	04-JUL-2018 03:51	S36926 (2X)
L6	184a035	178265382035	MO_5000	04-JUL-2018 04:19	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	45568	50014	49846	50127	50897	48592	AVRG		2.03E-5		49174	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-7	250.00	2	500.00	1	1000.0	2	2500.0	4	5000.0	-1

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1 Date: 07/05/18 Reviewer: EAH Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 178265382003

Name : MO_184
Cal Date : 04-JUL-2018

ICV 178265382037 (184a037 04-JUL-2018) stds: S37407

Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	465.5	mg/L	-7	15	

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Carbon Marker Run

Inst : GC17A
 Seqnum : 178269582002
 Standards: S36439

Run Name : C8-C40
 File : 187a002

IDF : 1.0
 Time : 06-JUL-2018 05:29

Analyte	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	1.913	+/- 4.5s (0.075m)	1.838 - 1.988
C12 - n-Dodecane	3.31	+/- 4.5s (0.075m)	3.235 - 3.385
C14 - n-Tetradecane	4.472	+/- 4.5s (0.075m)	4.397 - 4.547
C16 - n-Hexadecane	5.487	+/- 4.5s (0.075m)	5.412 - 5.562
C18 - n-Octadecane	6.39	+/- 4.5s (0.075m)	6.315 - 6.465
C20 - n-Eicosane	7.213	+/- 4.5s (0.075m)	7.138 - 7.288
C22 - n-Docosane	7.967	+/- 4.5s (0.075m)	7.892 - 8.042
C24 - n-Tetracosane	8.657	+/- 4.5s (0.075m)	8.582 - 8.732
C28 - n-Octacosane	9.895	+/- 4.5s (0.075m)	9.820 - 9.970
C30 - n-Triacontane	10.453	+/- 4.5s (0.075m)	10.378 - 10.528
C32 - n-Dotriacontane	10.975	+/- 4.5s (0.075m)	10.900 - 11.050
C34 - n-Tetratriacontane	11.47	+/- 4.5s (0.075m)	11.395 - 11.545
C36 - n-Hexatriacontane	11.937	+/- 4.5s (0.075m)	11.862 - 12.012
C40 - n-Tetracontane	12.992	+/- 4.5s (0.075m)	12.917 - 13.067

Carbon Range	Range Start	Range Stop
JP-5 C10-C16	1.838	5.562
Diesel C10-C22	1.838	8.042
Diesel C10-C24	1.838	8.732
Diesel C10-C28	1.838	9.970
Diesel C12-C24	3.235	8.732
Diesel C12-C28	3.235	9.970
Diesel C16-C24	5.412	8.732
Motor Oil C22-C32	7.892	11.050
Motor Oil C24-C36	8.582	12.012
Motor Oil C28-C40	9.820	13.067
Bunker C C10-C40	1.838	13.067
Bunker C C12-C40	3.235	13.067

EZChrom method retention times successfully validated.

Analyst: CB1

Date: 07/06/18

Reviewer: EAH

Date: 07/06/18

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
 Seqnum : 178275372003 File : 191a003 Time : 10-JUL-2018 06:28
 Standards: S37195

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178265382002	03-JUL-2018	64704	67682	500.0	523.0	mg/L	5	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	79195	50.00	51.07	mg/L	2	15	

CB1 07/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/10/18 Reviewer: EAH Date: 07/10/18

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178275372004 File : 191a004 Time : 10-JUL-2018 06:56
 Standards: S37407

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	178265382003	04-JUL-2018	49174	50428	500.0	512.7	mg/L	3	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	81914	50.00	52.82	mg/L	6	15	

CB1 07/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/10/18 Reviewer: EAH Date: 07/12/18

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : BUNK_500 IDF : 1.0
 Seqnum : 178275372008 File : 191a008 Time : 10-JUL-2018 09:20
 Standards: S36287

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Bunker C C12-C40	177456968001	13-NOV-2017	29708	33781	500.0	568.6	mg/L	14	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	82312	50.00	53.08	mg/L	6	15	

WA1 07/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/10/18 Reviewer: EAH Date: 07/10/18

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
 Seqnum : 178275372018 File : 191a018 Time : 10-JUL-2018 15:02
 Standards: S36285

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178265382002	03-JUL-2018	64704	66251	250.0	256.0	mg/L	2	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	79481	50.00	51.25	mg/L	3	15	

WA1 07/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/10/18 Reviewer: AMP Date: 07/11/18

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178275372019 File : 191a019 Time : 10-JUL-2018 15:30
 Standards: S37407

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178265382003	04-JUL-2018	49174	48396	500.0	492.1	mg/L	-2	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	80251	50.00	51.75	mg/L	3	15	

WA1 07/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/10/18 Reviewer: AMP Date: 07/11/18

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : BUNK_500 IDF : 1.0
 Seqnum : 178275372020 File : 191a020 Time : 10-JUL-2018 15:57
 Standards: S36287

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Bunker C C12-C40	177456968001	13-NOV-2017	29708	32837	500.0	552.7	mg/L	11	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	81856	50.00	52.78	mg/L	6	15	

WA1 07/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/10/18 Reviewer: EAH Date: 07/12/18

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177456968

Instrument : GC17A
 Method : EPA 8015B

Begun : 11/13/17 08:08
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	317a001	X	IB				11/13/17 08:08	1.0	
002	317a002	X	IB				11/13/17 08:36	1.0	
003	317a003	X	CMARKER				11/13/17 09:04	1.0	1
004	317a004	X	IB				11/13/17 11:06	1.0	
005	317a005	CMARKER	C8-C50				11/13/17 11:34	1.0	1
006	317a006	CCV	DSL_500				11/13/17 12:02	1.0	2
007	317a007	CCV	MO_500				11/13/17 12:29	1.0	3
008	317a008	BLANK	QC908443		Water	253574	11/13/17 13:11	1.0	
009	317a009	BS	QC908444		Water	253574	11/13/17 13:39	1.0	
010	317a010	BSD	QC908445		Water	253574	11/13/17 14:06	1.0	
011	317a011	SAMPLE	294254-002		Water	253574	11/13/17 14:33	1.0	
012	317a012	SAMPLE	294257-001		Water	253574	11/13/17 15:01	1.0	
013	317a013	SAMPLE	294232-001		Miscell.	253561	11/13/17 15:28	1.0	
014	317a014	SAMPLE	294232-001		Miscell.	253561	11/13/17 15:56	1.0	
015	317a015	CCV	DSL_250				11/13/17 16:29	1.0	4
016	317a016	CCV	MO_500				11/13/17 16:57	1.0	3
017	317a017	X	CMARKER				11/13/17 17:24	1.0	1
018	317a018	CCV	BUNK_500				11/13/17 17:52	1.0	5
019	317a019	BLANK	QC908443		Water	253574	11/13/17 18:34	1.0	
020	317a020	BS	QC908444		Water	253574	11/13/17 19:02	1.0	
021	317a021	BSD	QC908445		Water	253574	11/13/17 19:30	1.0	
022	317a022	BLANK	QC908443	S	Water	253574	11/13/17 19:57	1.0	
023	317a023	BS	QC908444	S	Water	253574	11/13/17 20:25	1.0	
024	317a024	BSD	QC908445	S	Water	253574	11/13/17 20:53	1.0	
025	317a025	SAMPLE	294182-001		Water	253574	11/13/17 21:20	1.0	
026	317a026	SAMPLE	294182-002		Water	253574	11/13/17 21:48	1.0	
027	317a027	SAMPLE	294182-003		Water	253574	11/13/17 22:16	1.0	
028	317a028	SAMPLE	294182-004		Water	253574	11/13/17 22:43	1.0	
029	317a029	SAMPLE	294182-005		Water	253574	11/13/17 23:11	1.0	
030	317a030	SAMPLE	294182-007		Water	253574	11/13/17 23:38	1.0	
031	317a031	SAMPLE	294182-001	S	Water	253574	11/14/17 00:06	1.0	
032	317a032	SAMPLE	294182-002	S	Water	253574	11/14/17 00:33	1.0	
033	317a033	SAMPLE	294182-003	S	Water	253574	11/14/17 01:01	1.0	
034	317a034	X	IB				11/14/17 01:28	1.0	
035	317a035	CCV	DSL_500				11/14/17 01:56	1.0	2
036	317a036	CCV	MO_500				11/14/17 02:23	1.0	3
037	317a037	CCV	BUNK_500				11/14/17 02:51	1.0	5
038	317a038	X	CMARKER				11/14/17 03:18	1.0	1
039	317a039	X	CCV				11/14/17 03:46	1.0	2
040	317a040	X	CCV				11/14/17 04:13	1.0	3
041	317a041	X	CCV				11/14/17 04:41	1.0	5
042	317a042	SAMPLE	294182-004	S	Water	253574	11/14/17 05:08	1.0	
043	317a043	SAMPLE	294182-005	S	Water	253574	11/14/17 05:36	1.0	
044	317a044	SAMPLE	294182-007	S	Water	253574	11/14/17 06:03	1.0	
045	317a045	SAMPLE	294225-001	S	Water	253574	11/14/17 06:31	2.0	
046	317a046	SAMPLE	294225-003	S	Water	253574	11/14/17 06:58	1.0	
047	317a047	SAMPLE	294211-001	S	Water	253574	11/14/17 07:26	1.0	
048	317a048	SAMPLE	294211-002	S	Water	253574	11/14/17 07:53	1.0	
049	317a049	SAMPLE	294344-004	S	Soil	253631	11/14/17 08:28	1.0	
050	317a050	SAMPLE	294344-005	S	Soil	253631	11/14/17 08:56	1.0	
051	317a051	SAMPLE	294344-006	S	Soil	253631	11/14/17 09:23	1.0	
052	317a052	MSS	294246-018	S	Soil	253631	11/14/17 09:51	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177456968

Instrument : GC17A
 Method : EPA 8015B

Begun : 11/13/17 08:08
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	317a053	MS	QC908662	S	Soil	253631	11/14/17 10:19	1.0		
054	317a054	MSD	QC908663	S	Soil	253631	11/14/17 10:47	1.0		
055	317a055	CCV	DSL_1000				11/14/17 11:14	1.0	6	
056	317a056	CCV	MO_500				11/14/17 11:42	1.0	3	
057	317a057	CCV	BUNK_500				11/14/17 12:09	1.0	5	
058	317a058	X	CMARKER				11/14/17 12:37	1.0	1	
059	317a059	SAMPLE	294211-003	S	Water	253574	11/14/17 13:08	1.0		
060	317a060	SAMPLE	294211-004	S	Water	253574	11/14/17 13:36	1.0		
061	317a061	SAMPLE	294211-005	S	Water	253574	11/14/17 14:04	1.0		
062	317a062	SAMPLE	294182-001	S	Water	253574	11/14/17 14:31	1.0		
063	317a063	SAMPLE	294182-004	S	Water	253574	11/14/17 14:58	1.0		
064	317a064	CCV	DSL_500				11/14/17 15:26	1.0	2	
065	317a065	CCV	BUNK_500				11/14/17 15:54	1.0	5	
066	317a066	CCV	MO_500				11/14/17 16:21	1.0	3	
067	317a067	X	CMARKER				11/14/17 16:49	1.0	1	
068	317a068	BLANK	QC908664		Soil	253625	11/14/17 17:16	1.0		
069	317a069	LCS	QC908665		Soil	253625	11/14/17 17:44	1.0		
070	317a070	BLANK	QC908664	S	Soil	253625	11/14/17 18:11	1.0		
071	317a071	LCS	QC908665	S	Soil	253625	11/14/17 18:39	1.0		
072	317a072	SAMPLE	294211-001		Water	253574	11/14/17 19:07	1.0		
073	317a073	SAMPLE	294211-002		Water	253574	11/14/17 19:35	1.0		
074	317a074	SAMPLE	294211-003		Water	253574	11/14/17 20:03	1.0		
075	317a075	SAMPLE	294211-004		Water	253574	11/14/17 20:30	1.0		
076	317a076	SAMPLE	294211-005		Water	253574	11/14/17 20:58	1.0		
077	317a077	SAMPLE	294279-001		Water	253574	11/14/17 21:26	1.0		8:BUNKC:12-40=57000
078	317a078	SAMPLE	294209-009	S	Soil	253561	11/14/17 21:53	2.0		
079	317a079	SAMPLE	294209-001	S	Soil	253561	11/14/17 22:21	10.0		
080	317a080	SAMPLE	294209-002	S	Soil	253561	11/14/17 22:48	10.0		
081	317a081	SAMPLE	294209-003	S	Soil	253561	11/14/17 23:16	10.0		
082	317a082	X	IB				11/14/17 23:43	1.0		
083	317a083	CCV	DSL_1000				11/15/17 00:10	1.0	6	
084	317a084	CCV	MO_500				11/15/17 00:38	1.0	3	
085	317a085	X	CMARKER				11/15/17 01:05	1.0	1	
086	317a086	X	CCV				11/15/17 01:33	1.0	6	
087	317a087	X	CCV				11/15/17 02:00	1.0	3	
088	317a088	MSS	294243-001		Soil	253625	11/15/17 02:28	1.0		
089	317a089	MS	QC908666		Soil	253625	11/15/17 02:55	1.0		
090	317a090	MSD	QC908667		Soil	253625	11/15/17 03:23	1.0		
091	317a091	SAMPLE	294236-001		Soil	253625	11/15/17 03:50	2.0		
092	317a092	SAMPLE	294238-001		Soil	253625	11/15/17 04:18	1.0		
093	317a093	SAMPLE	294263-001		Soil	253625	11/15/17 04:45	1.0		
094	317a094	SAMPLE	294263-002		Soil	253625	11/15/17 05:13	1.0		
095	317a095	SAMPLE	294263-003		Soil	253625	11/15/17 05:40	10.0		
096	317a096	SAMPLE	294246-001	S	Soil	253625	11/15/17 06:08	1.0		
097	317a097	SAMPLE	294246-002	S	Soil	253625	11/15/17 06:36	1.0		
098	317a098	SAMPLE	294246-003	S	Soil	253625	11/15/17 07:03	10.0		
099	317a099	SAMPLE	294246-004	S	Soil	253625	11/15/17 07:31	1.0		
100	317a100	SAMPLE	294246-005	S	Soil	253625	11/15/17 07:59	1.0		
101	317a101	X	IB				11/15/17 08:26	1.0		
102	317a102	CCV	DSL_500				11/15/17 08:54	1.0	2	
103	317a103	CCV	MO_500				11/15/17 09:22	1.0	3	
104	317a104	X	CMARKER				11/15/17 09:49	1.0	1	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 177456968

Instrument : GC17A Begun : 11/13/17 08:08
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	317a105	SAMPLE	294292-011		Soil	253682	11/15/17 10:22	1.0		
106	317a106	SAMPLE	294292-012		Soil	253682	11/15/17 10:50	1.0		
107	317a107	SAMPLE	294292-013		Soil	253682	11/15/17 11:18	3.0		2:BUNKC:12-40=6600
108	317a108	SAMPLE	294292-014		Soil	253682	11/15/17 11:45	1.0		
109	317a109	SAMPLE	294292-015		Soil	253682	11/15/17 12:13	1.0		
110	317a110	SAMPLE	294292-016		Soil	253682	11/15/17 12:41	1.0		
111	317a111	SAMPLE	294292-017		Soil	253682	11/15/17 13:09	5.0		2:BUNKC:12-40=6500
112	317a112	SAMPLE	294292-019		Soil	253682	11/15/17 13:37	1.0		
113	317a113	SAMPLE	294292-021		Soil	253682	11/15/17 14:05	1.0		
114	317a114	SAMPLE	294292-022		Soil	253682	11/15/17 14:33	1.0		
115	317a115	X	IB				11/15/17 15:44	1.0		
116	317a116	CCV	DSL_1000				11/15/17 16:12	1.0	6	
117	317a117	CCV	MO_500				11/15/17 16:40	1.0	3	
118	317a118	X	CMARKER				11/15/17 17:07	1.0	1	
119	317a119	SAMPLE	294292-042		Soil	253704	11/15/17 17:36	2.0		
120	317a120	SAMPLE	294292-043		Soil	253704	11/15/17 18:03	1.0		
121	317a121	SAMPLE	294292-044		Soil	253704	11/15/17 18:31	1.0		
122	317a122	BLANK	QC908964	S	Soil	253712	11/15/17 18:58	1.0		
123	317a123	LCS	QC908965	S	Soil	253712	11/15/17 19:26	1.0		
124	317a124	SAMPLE	294424-001	S	Soil	253712	11/15/17 19:54	1.0		
125	317a125	SAMPLE	294263-001	S	Soil	253625	11/15/17 20:21	1.0		
126	317a126	SAMPLE	294263-002	S	Soil	253625	11/15/17 20:49	1.0		
127	317a127	SAMPLE	294263-003	S	Soil	253625	11/15/17 21:17	10.0		
128	317a128	X	IB				11/15/17 21:45	1.0		
129	317a129	CCV	DSL_500				11/15/17 22:12	1.0	2	
130	317a130	CCV	MO_500				11/15/17 22:40	1.0	3	
131	317a131	X	CMARKER				11/15/17 23:08	1.0	1	
132	317a132	CCV	DSL_500				11/15/17 23:35	1.0	2	
133	317a133	CCV	MO_500				11/16/17 00:03	1.0	3	

WA1 11/13/17 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 18.

RDG 11/14/17 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 19 through 66.

RDG 11/15/17 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 67 through 104.

WA1 11/16/17 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 105 through 133.

Standards used: 1=S32296 2=S34305 3=S34303 4=S34304 5=S34383 6=S33858

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178265382

Instrument : GC17A
 Method : EPA 8015B

Begun : 07/03/18 07:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	184a001	IB				07/03/18 07:02	1.0	
002	184a002	IB				07/03/18 07:29	1.0	
003	184a003	X	CMARKER			07/03/18 07:57	1.0	1
004	184a004	CCV	DSL_500			07/03/18 08:25	1.0	2
005	184a005	CCV	MO_500			07/03/18 08:53	1.0	3
007	184a007	IB				07/03/18 13:24	1.0	
008	184a008	X	CMARKER			07/03/18 13:52	1.0	1
009	184a009	CCV	DSL_500			07/03/18 14:19	1.0	2
010	184a010	CCV	MO_500			07/03/18 14:47	1.0	3
011	184a011	IB				07/03/18 17:13	1.0	
012	184a012	IB				07/03/18 17:40	1.0	
013	184a013	IB				07/03/18 18:08	1.0	
014	184a014	IB	CALIB			07/03/18 18:36	1.0	
015	184a015	ICAL	HEXOTP_2.5			07/03/18 19:03	1.0	4
016	184a016	ICAL	HEXOTP_5			07/03/18 19:31	1.0	4
017	184a017	ICAL	HEXOTP_10			07/03/18 19:58	1.0	5
018	184a018	ICAL	HEXOTP_25			07/03/18 20:26	1.0	6
019	184a019	ICAL	HEXOTP_50			07/03/18 20:53	1.0	7
020	184a020	ICAL	HEXOTP_100			07/03/18 21:21	1.0	8
021	184a021	IB	CALIB			07/03/18 21:49	1.0	
022	184a022	ICAL	DSL_10			07/03/18 22:17	1.0	9
023	184a023	ICAL	DSL_100			07/03/18 22:45	1.0	10
024	184a024	ICAL	DSL_500			07/03/18 23:13	1.0	11
025	184a025	ICAL	DSL_1000			07/03/18 23:40	1.0	12
026	184a026	ICAL	DSL_5000			07/04/18 00:08	1.0	13
027	184a027	IB	CALIB			07/04/18 00:36	1.0	
028	184a028	ICV	DSL_500			07/04/18 01:04	1.0	14
029	184a029	IB	CALIB			07/04/18 01:32	1.0	
030	184a030	ICAL	MO_50			07/04/18 02:00	1.0	15
031	184a031	ICAL	MO_250			07/04/18 02:28	1.0	16
032	184a032	ICAL	MO_500			07/04/18 02:55	1.0	17
033	184a033	ICAL	MO_1000			07/04/18 03:23	1.0	18
034	184a034	ICAL	MO_2500			07/04/18 03:51	1.0	19
035	184a035	ICAL	MO_5000			07/04/18 04:19	1.0	19
036	184a036	IB	CALIB			07/04/18 04:47	1.0	
037	184a037	ICV	MO_500			07/04/18 05:14	1.0	3
038	184a038	IB	CALIB			07/04/18 05:42	1.0	
039	184a039	CMARKER	C8-C40			07/04/18 06:10	1.0	1
040	184a040	IB	CALIB			07/04/18 06:38	1.0	

WA1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

Standards used: 1=S36439 2=S37195 3=S37407 4=S36499 5=S36500 6=S36501 7=S36502 8=S36503 9=S36610 10=S36611 11=S36613
 12=S36615 13=S36609 14=S35844 15=S36946 16=S36948 17=S36949 18=S36951 19=S36926

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 178275372

Instrument : GC17A Begun : 07/10/18 05:32
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	191a001	IB				07/10/18 05:32	1.0	
002	191a002	X	CMARKER			07/10/18 06:00	1.0	1
003	191a003	CCV	DSL_500			07/10/18 06:28	1.0	2
004	191a004	CCV	MO_500			07/10/18 06:56	1.0	3
005	191a005	MS	QC938795	Soil	261232	07/10/18 07:56	1.0	
006	191a006	MSD	QC938796	Soil	261232	07/10/18 08:24	1.0	
007	191a007	MSS	301264-008	Soil	261208	07/10/18 08:52	2.0	
008	191a008	CCV	BUNK_500			07/10/18 09:20	1.0	4
009	191a009	BLANK	QC938836	Water	261242	07/10/18 10:54	1.0	
010	191a010	BS	QC938837	Water	261242	07/10/18 11:22	1.0	
011	191a011	BSD	QC938838	Water	261242	07/10/18 11:49	1.0	
012	191a012	SAMPLE	301254-010	Water	261242	07/10/18 12:17	1.0	
013	191a013	SAMPLE	301254-013	Water	261242	07/10/18 12:44	1.0	
014	191a014	SAMPLE	301254-014	Water	261242	07/10/18 13:11	1.0	
015	191a015	SAMPLE	301314-001	Water	261242	07/10/18 13:39	1.0	
016	191a016	SAMPLE	301314-002	Water	261242	07/10/18 14:07	1.0	
017	191a017	SAMPLE	301314-003	Water	261242	07/10/18 14:34	1.0	
018	191a018	CCV	DSL_250			07/10/18 15:02	1.0	5
019	191a019	CCV	MO_500			07/10/18 15:30	1.0	3
020	191a020	CCV	BUNK_500			07/10/18 15:57	1.0	4
021	191a021	X	CMARKER			07/10/18 16:25	1.0	1
022	191a022	SAMPLE	301233-005	Soil	261292	07/10/18 18:01	1.0	
023	191a023	SAMPLE	301267-050	Soil	261292	07/10/18 18:29	1.0	
024	191a024	SAMPLE	301267-055	Soil	261292	07/10/18 18:56	1.0	
025	191a025	SAMPLE	301334-001	Soil	261292	07/10/18 19:24	10.0	8:BUNKC:12-40=23000
026	191a026	IB				07/10/18 19:51	1.0	
027	191a027	SAMPLE	301311-001	Soil	261292	07/10/18 20:18	1.0	
028	191a028	SAMPLE	301326-001	Soil	261292	07/10/18 20:46	1.0	
029	191a029	CCV	DSL_1000			07/10/18 21:13	1.0	6
030	191a030	CCV	MO_500			07/10/18 21:40	1.0	3
031	191a031	X	CMARKER			07/10/18 22:08	1.0	1

CB1 07/11/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 31.

SAMPLE PREPARATION SUMMARY

Batch # : 261242		Analysis : TEH	
Started By : RD1	Prep Date : 09-JUL-2018 12:34	Finished By : CRC	
Method : 3520C	SOP Version : TEH_3520_rv16	Units : mL	
Spike #1 ID : S37162	Spike #2 ID : S36488	Spike #3 ID : S36756	

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
203815-035		Water	1000	5	1	0.005	7	1		.12		(rebatched)	See comment 1 below
212266-044		Water	1000	5	1	0.005	7	1				TEHM	See comment 2 below
213035-045		Water	1000	5	1	0.005	7	1	.016			(rebatched)	See comment 1 below
301212-001		Water	1000	5	1	0.005	7	1				TEH	See comment 3 below
301212-002		Water	1000	5	1	0.005	7	1				TEHM	See comment 4 below
301212-003		Water	1000	5	1	0.005	7	1		.2		TEH	See comment 5 below
301254-010		Water	1020	5	1	0.004902	7	1				TEHM	
301254-013		Water	510	2.5	1	0.004902	7	.5				TEHM	
301254-014		Water	500	2.5	1	0.005	7	.5				TEHM	
301314-001		Water	500	2.5	1	0.005	7	.5				TEHM	
301314-002		Water	500	2.5	1	0.005	7	.5				TEHM	
301314-003		Water	500	2.5	1	0.005	7	.5				TEHM	
301333-001		Water	1020	5	1	0.004902	7	1				TEHM	See comment 6 below
QC938836	BLANK	Water	500	2.5	1	0.005		.5				TEHM	
QC938837	BS	Water	500	2.5	1	0.005		.5	.5			TEHM	
QC938838	BSD	Water	500	2.5	1	0.005		.5	.5			TEHM	

Comment 1: Prepped 10-JUL-2018 14:14; A/O AS1, MDL
 Comment 2: Prepped 10-JUL-2018 14:14; +.04 mL S36926A; A/O AS1, MDL
 Comment 3: Prepped 10-JUL-2018 14:14; +.1 mL S36613A; A/O AS1, LOQ
 Comment 4: Prepped 10-JUL-2018 14:14; +.06 mL S36926A; A/O AS1, LOQ
 Comment 5: Prepped 10-JUL-2018 14:14; A/O AS1, LOQ
 Comment 6: Prepped 10-JUL-2018 12:31; A/O AS1

WA1 07/10/18 : Matrix spikes were not performed for this analysis in batch 261242 due to insufficient sample amount.

WA1 07/10/18 : Please review QCs for rush job 301254 that due on 7/11.

EAH 07/10/18 : Reviewed for 301254.

CB1 07/12/18 : Please review batch paperwork and QCs for RUSH job 301333 due TODAY, 7/12/18.

EAH 07/12/18 : Reviewed for 301333.

CB1 07/12/18 : Please review batch paperwork and QCs for STD TAT job 301314 due today, 7/12/18.

EAH 07/12/18 : Reviewed for 301314.

Analyst: _____ Date: _____ Reviewer: _____ Date: _____

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC17A Lab ID : 301314-001 Client ID : BR11-1GW01
 Seqnum : 178275372015 Matrix : Water Acct : TRC-SF (MJD)
 File : 191a015 Batch : 261242 Time : 10-JUL-2018 13:39
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

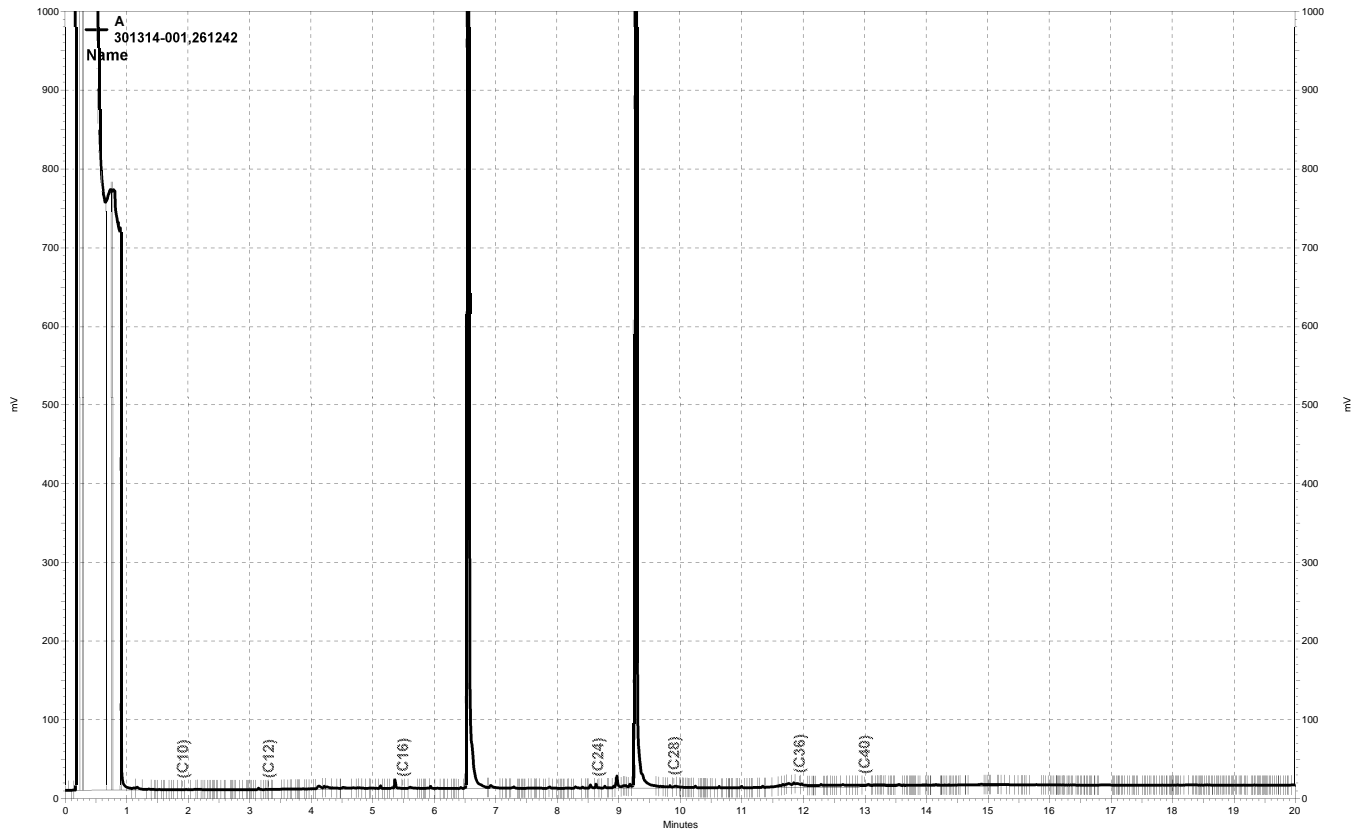
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	178265382002	4.759	24 J	50	19	Y Z u
Motor Oil C24-C36	178265382003	7.588	ND	300		u
Bunker C C12-C40	177456968001	27.17	ND	300	100	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	178265382004	56.39	250.0	281.9	113	58-123	u

WA1 07/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/11/18 Reviewer: EAH Date: 07/12/18

Y=does not resemble standard Z=single peak u=use



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a015, A

Sample Name: 301314-001,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 1:39:30 PM
 Analysis Date: 7/10/2018 2:43:30 PM
 Instrument: GC17A Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	180468	2.230
DSL:10-22	4650024	73.656
DSL:10-24	4680229	72.333
DSL:10-28	8683101	132.863
DSL:12-24	4666121	83.928
DSL:12-28	8668993	154.124
DSL:16-24	4504715	154.345
MO:22-32	4057223	85.234
MO:24-36	4158811	84.573
MO:28-40	315961	9.799
BUNKC:10-40	8979411	293.548
BUNKC:12-40	8965303	301.785

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

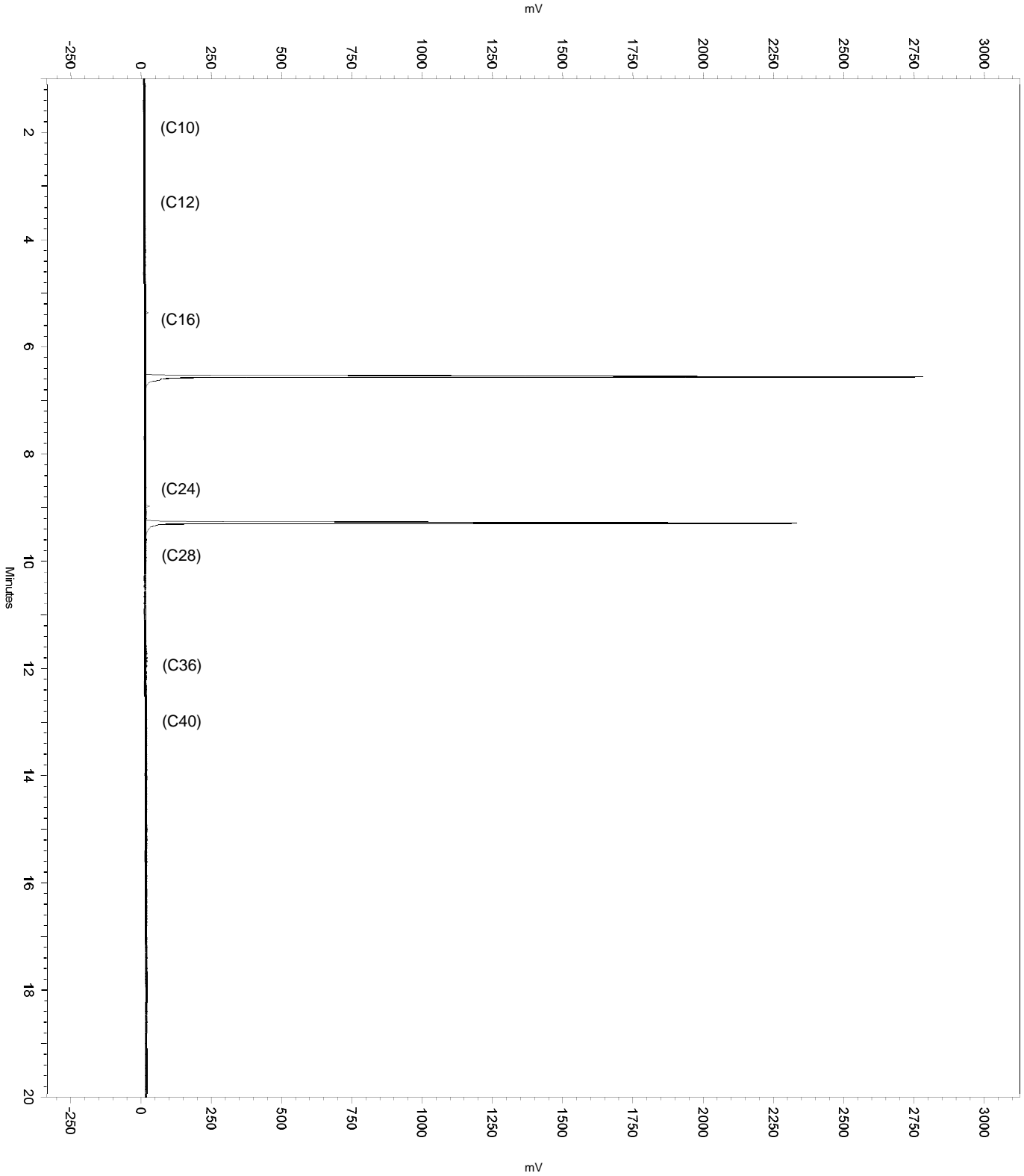
Manual Integration Fixes

=====

```

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a015
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Start       3.092     -0.069    0
No Manual Peak          6.472     7.122    0
No Manual Baseline      8.878     10.063    0
Yes Move BL Stop       11.147    17.349    0
  
```

Sample Name: 301314-001,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a015
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 1:39:30 PM
Analysis Date: 7/10/2018 2:43:30 PM
Instrument: GC17A Vial: 15 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: 301314-001,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 1:39:30 PM
 Analysis Date: 7/10/2018 2:43:07 PM
 Instrument: GC17A Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	180975	2.236
DSL:10-22	4654464	73.726
DSL:10-24	4685270	72.411
DSL:10-28	8688743	132.949
DSL:12-24	4676683	84.118
DSL:12-28	8680156	154.323
DSL:16-24	4509460	154.507
MO:22-32	4058607	85.264
MO:24-36	4133689	84.062
MO:28-40	200646	6.222
BUNKC:10-40	8869692	289.961
BUNKC:12-40	8861105	298.277

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

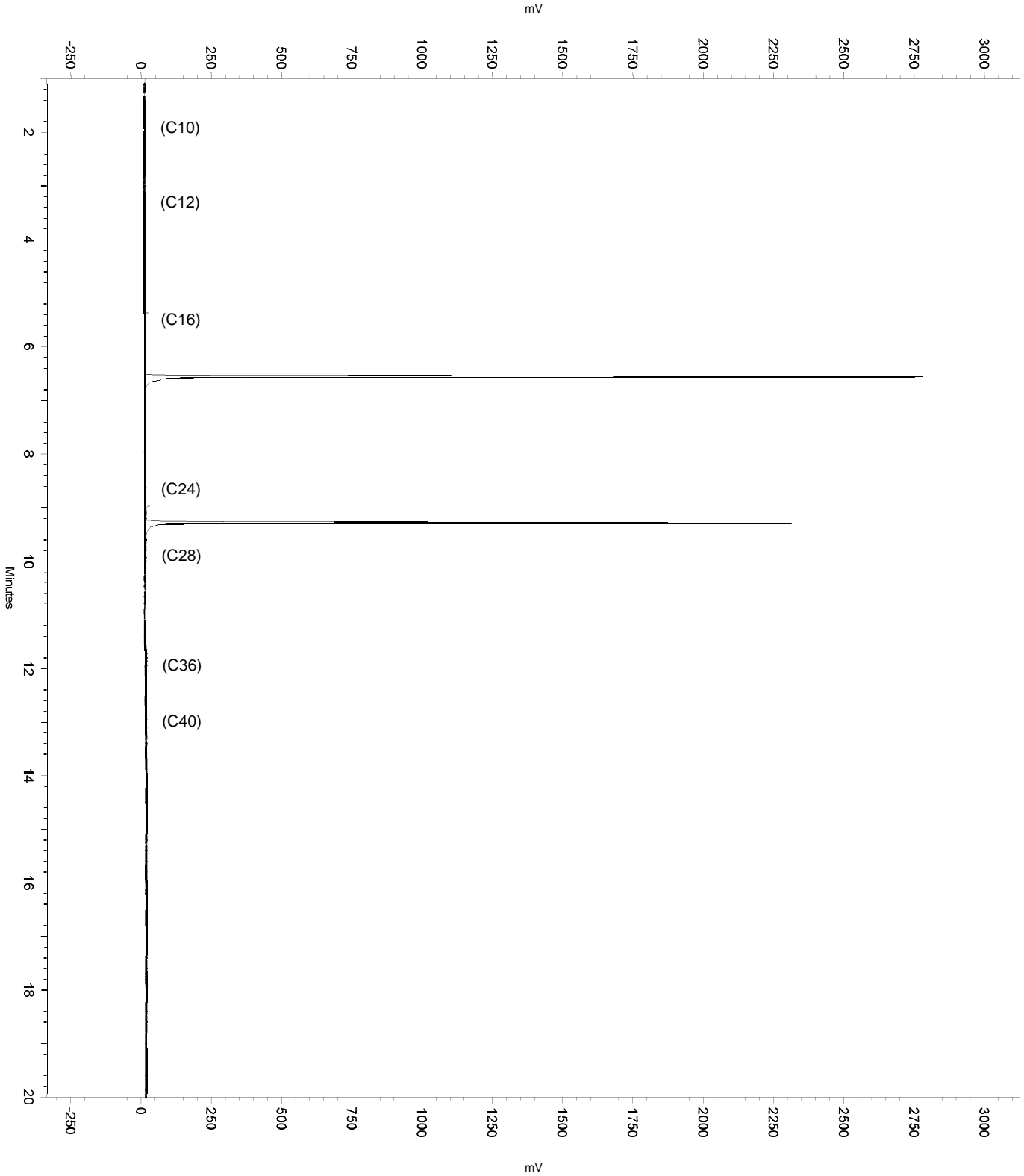
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a015
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Peak          6.472     7.122     0
No Manual Baseline      8.878     10.063    0
  
```

Sample Name: 301314-001,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a015
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 1:39:30 PM
Analysis Date: 7/10/2018 2:43:07 PM
Instrument: GC17A Vial: 15 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

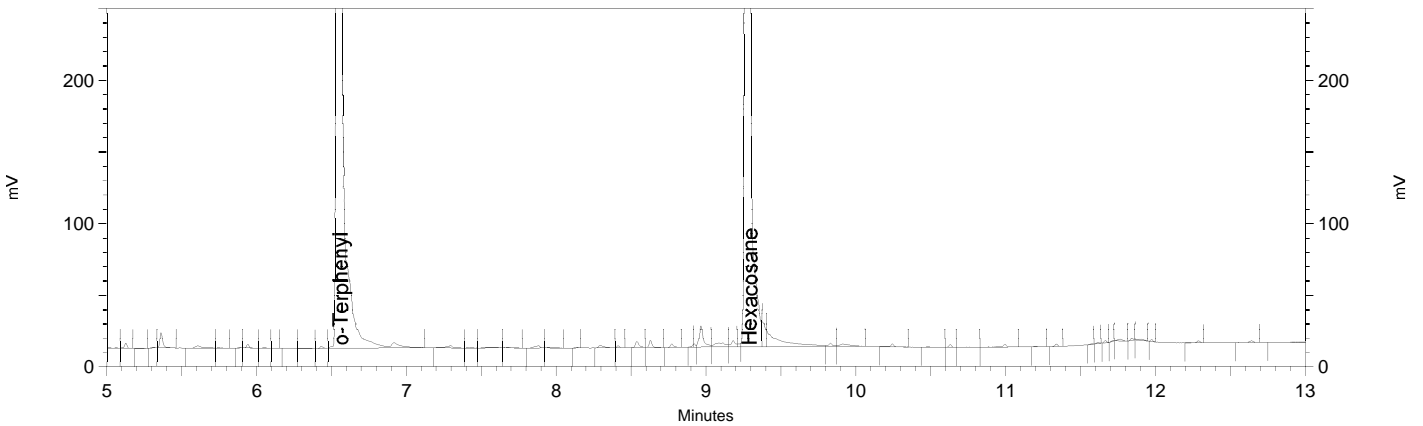


Sample Name: 301314-001,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 1:39:30 PM
 Analysis Date: 7/10/2018 2:42:26 PM
 Instrument: GC17A Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.562	4372331	56.387
Hexacosane	9.288	3785682	52.844



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a015

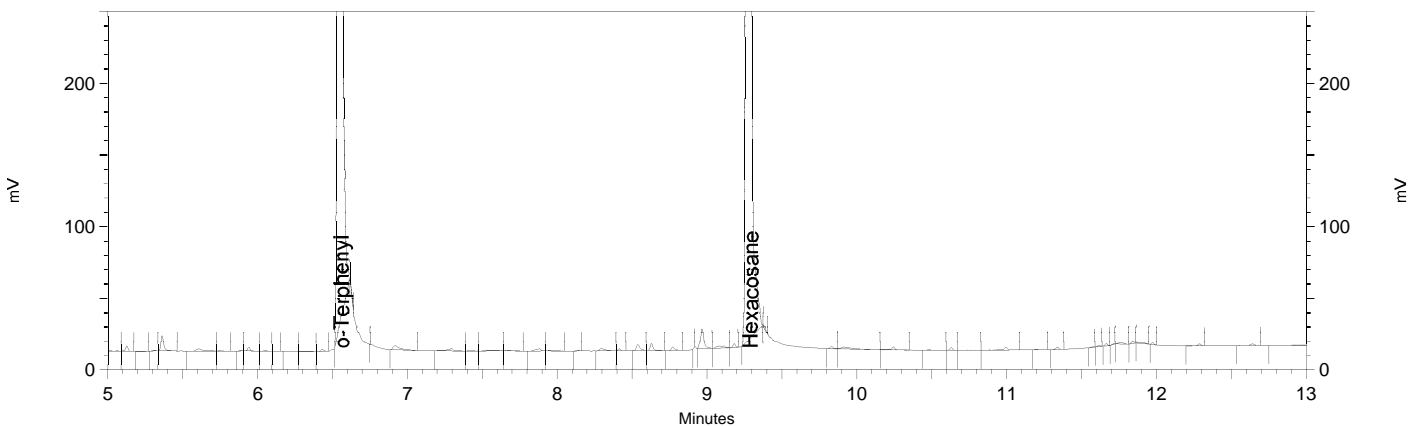
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.472	7.122	0
Yes	Manual Baseline	8.878	10.063	0

Sample Name: 301314-001,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 1:39:30 PM
 Analysis Date: 7/10/2018 2:42:11 PM
 Instrument: GC17A Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.562	4040970	52.113
Hexacosane	9.288	3700879	51.660



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC17A Lab ID : 301314-002 Client ID : BR11-1GW03
 Seqnum : 178275372016 Matrix : Water Acct : TRC-SF (MJD)
 File : 191a016 Batch : 261242 Time : 10-JUL-2018 14:07
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

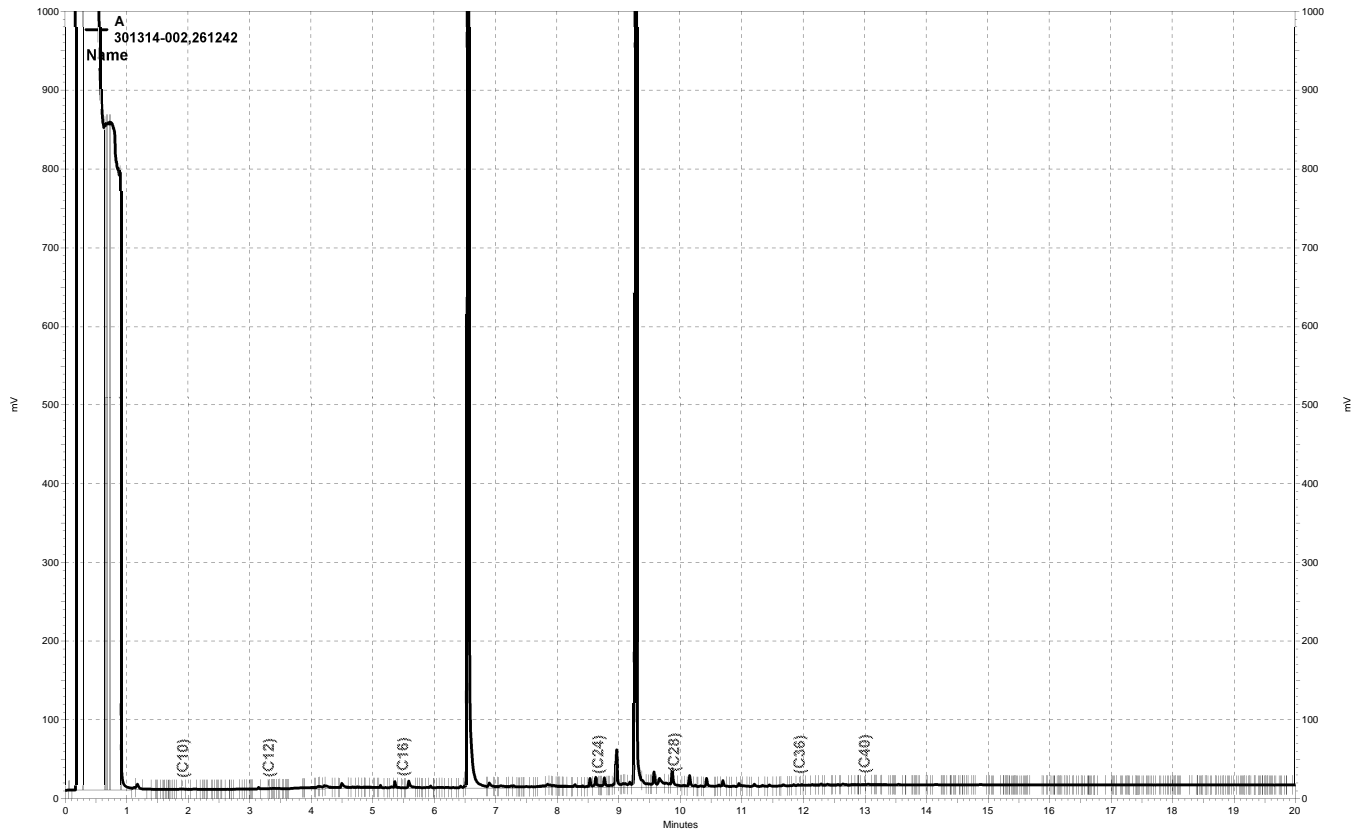
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	178265382002	9.938	50 J	50	19	Y Z u
Motor Oil C24-C36	178265382003	13.76	ND	300		u
Bunker C C12-C40	177456968001	47.06	ND	300	100	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	178265382004	52.79	250.0	264.0	106	58-123	u

WA1 07/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/11/18 Reviewer: EAH Date: 07/12/18

Y=does not resemble standard Z=single peak u=use



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a016, A

Sample Name: 301314-002,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 2:07:11 PM
 Analysis Date: 7/10/2018 2:44:07 PM
 Instrument: GC17A Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	262868	3.248
DSL:10-22	4633653	73.397
DSL:10-24	4736689	73.206
DSL:10-28	8807475	134.766
DSL:12-24	4714307	84.795
DSL:12-28	8785093	156.189
DSL:16-24	4477892	153.426
MO:22-32	4319632	90.747
MO:24-36	4302901	87.503
MO:28-40	399530	12.390
BUNKC:10-40	9140255	298.807
BUNKC:12-40	9117873	306.920

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

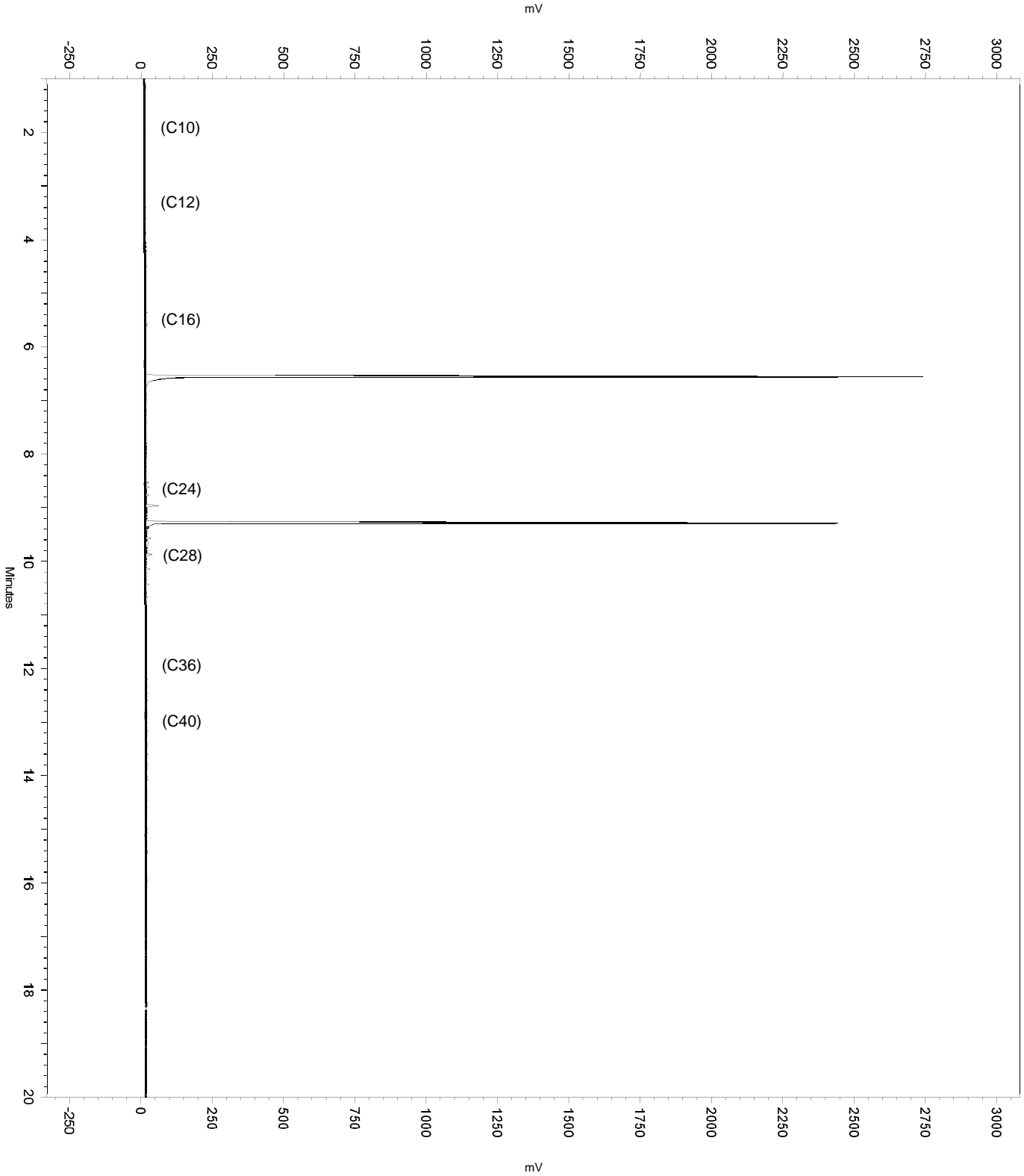
Manual Integration Fixes

=====

```

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a016
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Start       1.81      -0.034    0
No Manual Baseline      6.389     7.174     0
No Manual Baseline      8.872     9.931     0
Yes Move BL Stop        11.412    17.058    0
  
```

Sample Name: 301314-002,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a016
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 2:07:11 PM
Analysis Date: 7/10/2018 2:44:07 PM
Instrument: GC17A Vial: 16 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: 301314-002,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 2:07:11 PM
 Analysis Date: 7/10/2018 2:43:40 PM
 Instrument: GC17A Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	244388	3.019
DSL:10-22	4581994	72.578
DSL:10-24	4672649	72.216
DSL:10-28	8715811	133.363
DSL:12-24	4655581	83.738
DSL:12-28	8698743	154.653
DSL:16-24	4431751	151.845
MO:22-32	4250786	89.301
MO:24-36	4217219	85.761
MO:28-40	294014	9.118
BUNKC:10-40	8947932	292.519
BUNKC:12-40	8930864	300.625

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

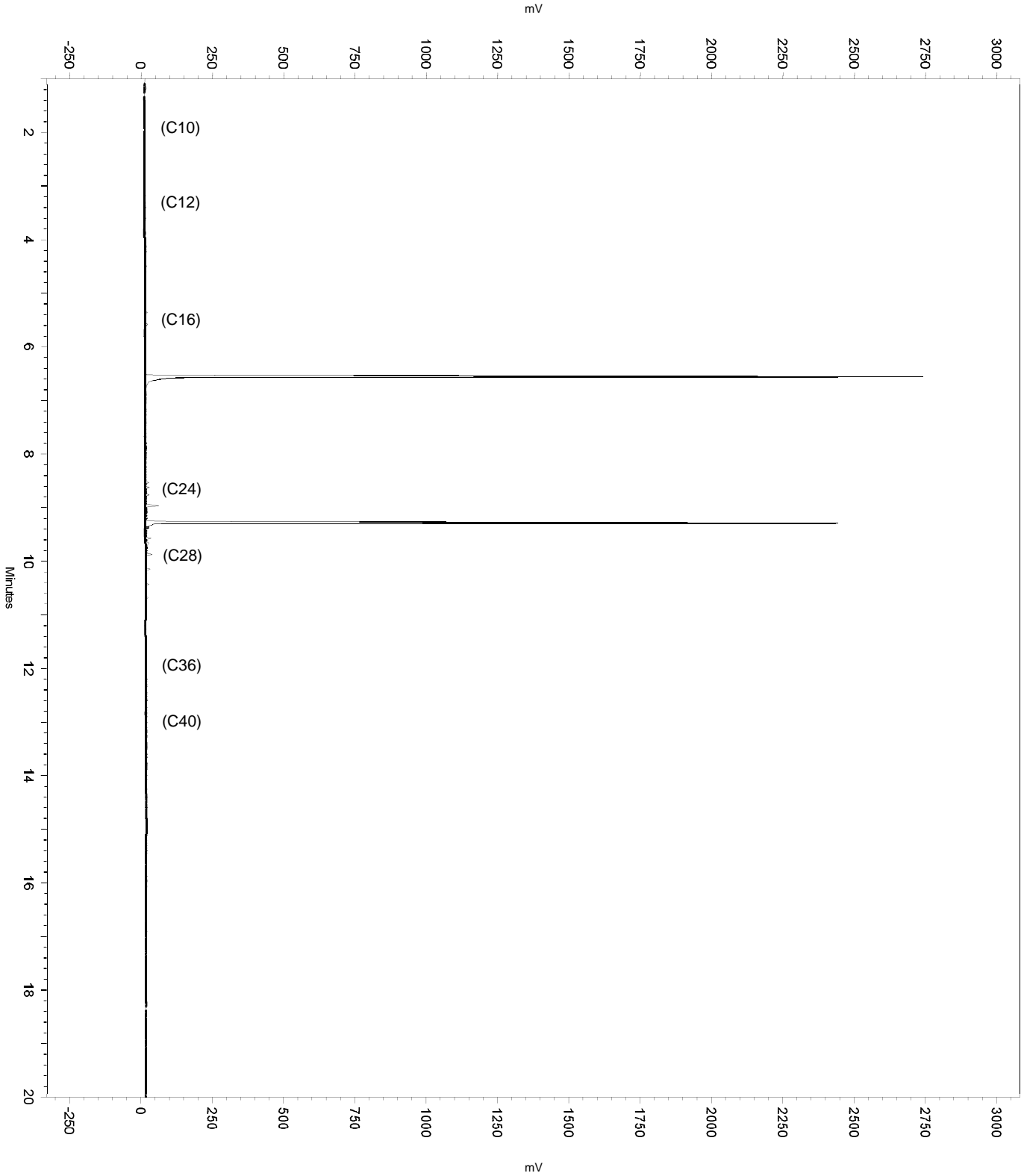
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a016
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.389     7.174     0
No Manual Baseline      8.872     9.931     0
  
```

Sample Name: 301314-002,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a016
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 2:07:11 PM
Analysis Date: 7/10/2018 2:43:40 PM
Instrument: GC17A Vial: 16 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

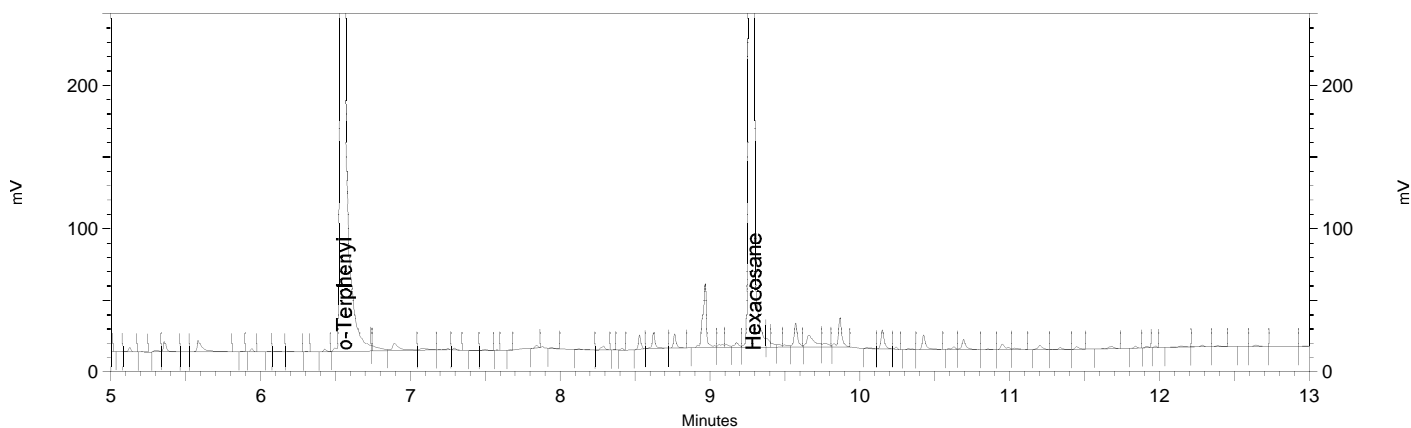


Sample Name: 301314-002,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothurr184b.met
 Run Date: 7/10/2018 2:07:11 PM
 Analysis Date: 7/10/2018 2:42:49 PM
 Instrument: GC17A Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.560	4093639	52.792
Hexacosane	9.288	3626237	50.618



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a016

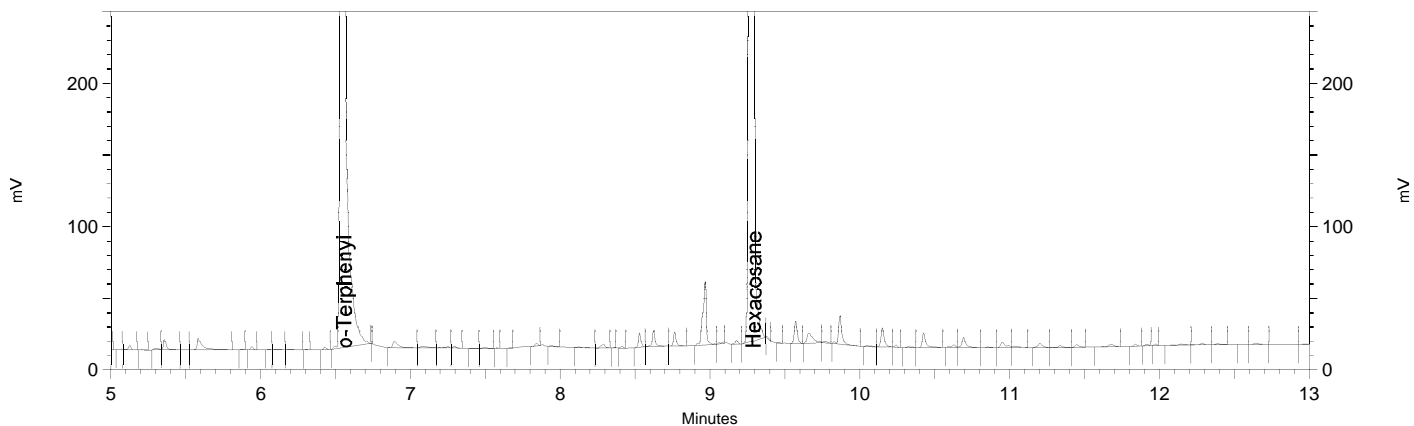
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.389	7.174	0
Yes	Manual Baseline	8.872	9.931	0

Sample Name: 301314-002,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsur184b.met
 Run Date: 7/10/2018 2:07:11 PM
 Analysis Date: 7/10/2018 2:42:34 PM
 Instrument: GC17A Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.560	4060011	52.359
Hexacosane	9.288	3592530	50.148



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC17A Lab ID : 301314-003 Client ID : BR11-1GW02
 Seqnum : 178275372017 Matrix : Water Acct : TRC-SF (MJD)
 File : 191a017 Batch : 261242 Time : 10-JUL-2018 14:34
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

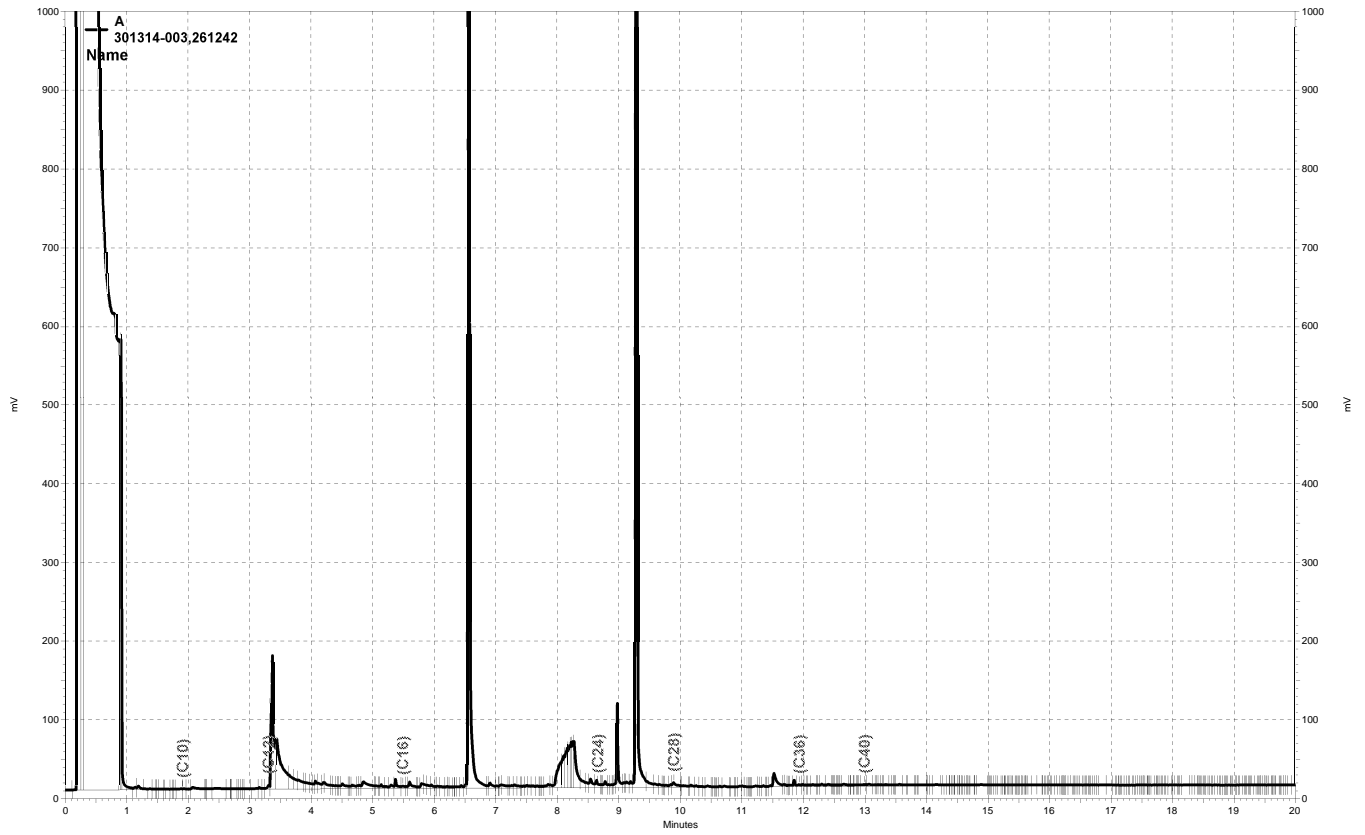
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	178265382002	46.97	230	50	19	Y Z u
Motor Oil C24-C36	178265382003	13.83	ND	300		u
Bunker C C12-C40	177456968001	126.1	630	300	100	Y Z u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	178265382004	51.71	250.0	258.6	103	58-123	u

WA1 07/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/11/18 Reviewer: EAH Date: 07/12/18

Y=does not resemble standard Z=single peak u=use



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a017, A

Sample Name: 301314-003,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 2:34:50 PM
 Analysis Date: 7/10/2018 2:58:54 PM
 Instrument: GC17A Vial: 17 Operator: teh analyst (iims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	1624966	20.077
DSL:10-22	6024399	95.426
DSL:10-24	7049187	108.946
DSL:10-28	10891553	166.655
DSL:12-24	6972293	125.408
DSL:12-28	10814659	192.272
DSL:16-24	5440876	186.420
MO:22-32	4914635	103.247
MO:24-36	4062039	82.605
MO:28-40	359208	11.140
BUNKC:10-40	11213441	366.582
BUNKC:12-40	11136547	374.872

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

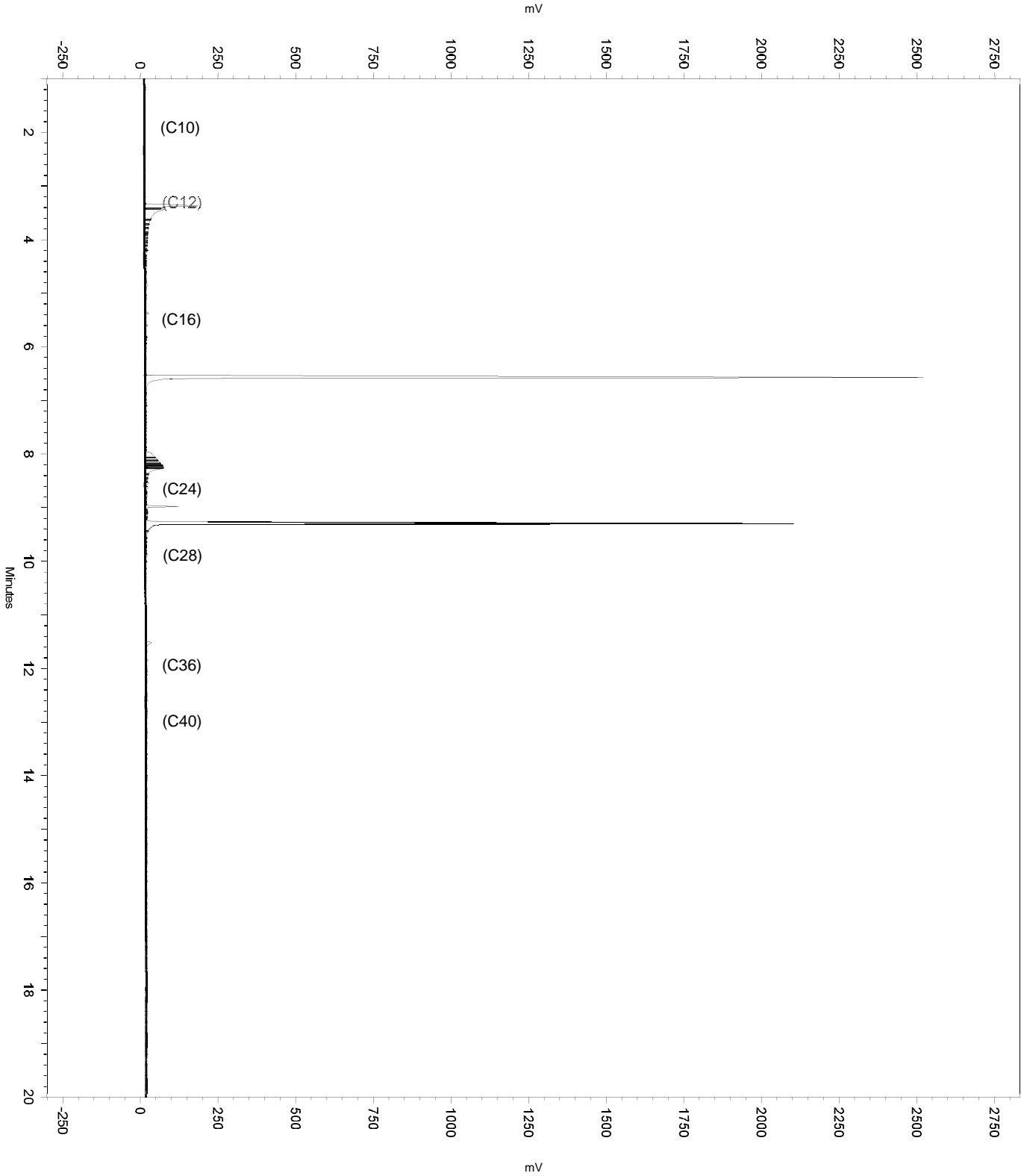
Manual Integration Fixes

=====

```

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a017
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Start       3.033     -0.046    0
No Manual Baseline      6.479     7.047     0
No Manual Baseline      9.221     9.548     0
Yes Move BL Stop        11.16     17.126    0
  
```

Sample Name: 301314-003,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a017
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 2:34:50 PM
Analysis Date: 7/10/2018 2:58:54 PM
Instrument: GC17A Vial: 17 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: 301314-003,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 2:34:50 PM
 Analysis Date: 7/10/2018 2:58:28 PM
 Instrument: GC17A Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	1513957	18.705
DSL:10-22	5871163	92.999
DSL:10-24	6886944	106.438
DSL:10-28	10721283	164.050
DSL:12-24	6855494	123.308
DSL:12-28	10689833	190.053
DSL:16-24	5387231	184.582
MO:22-32	4895727	102.850
MO:24-36	4036192	82.079
MO:28-40	298039	9.243
BUNKC:10-40	10982810	359.042
BUNKC:12-40	10951360	368.638

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

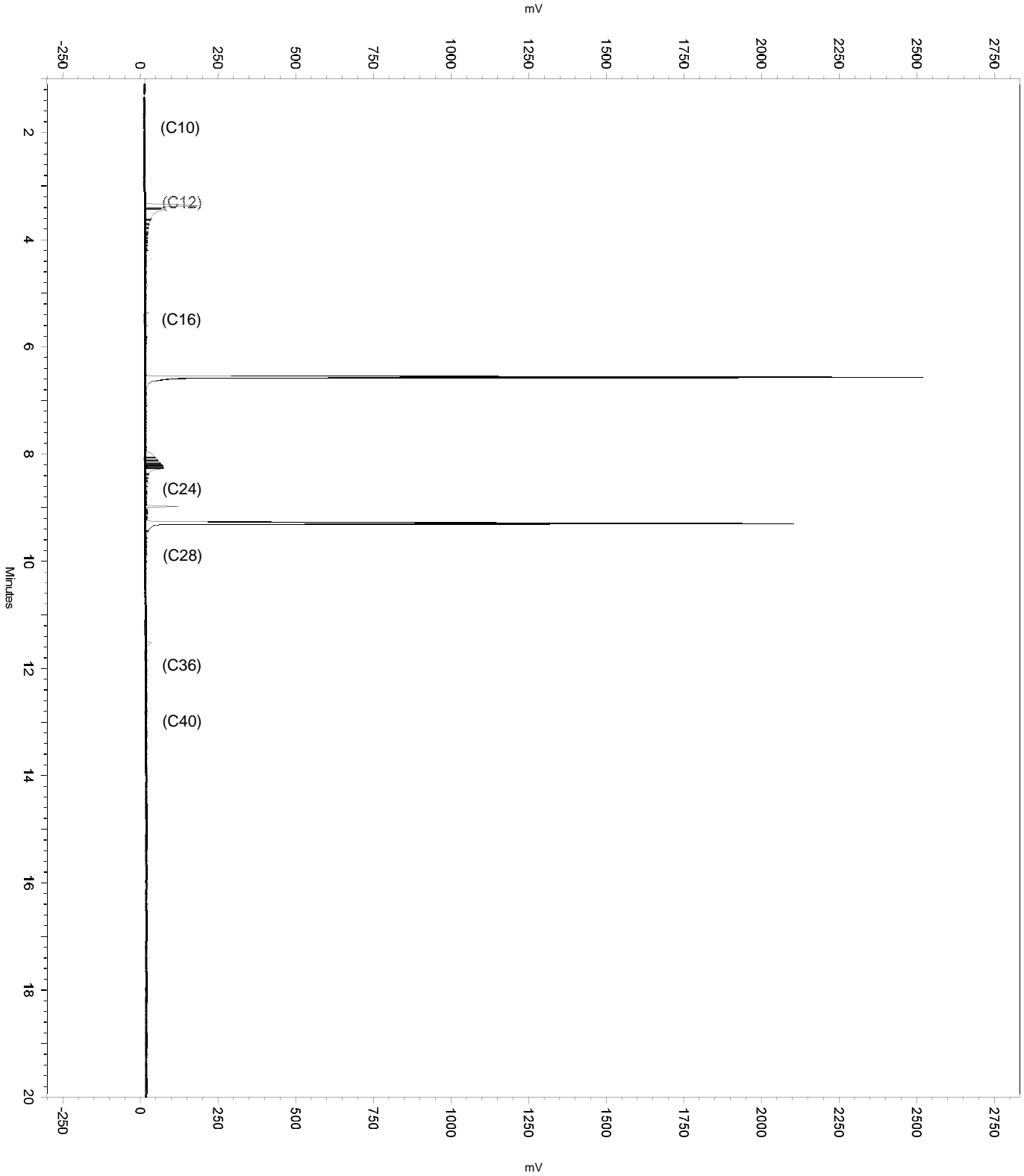
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a017
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline     6.479     7.047     0
No Manual Baseline     9.221     9.548     0
  
```

Sample Name: 301314-003,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a017
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 2:34:50 PM
Analysis Date: 7/10/2018 2:58:28 PM
Instrument: GC17A Vial: 17 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

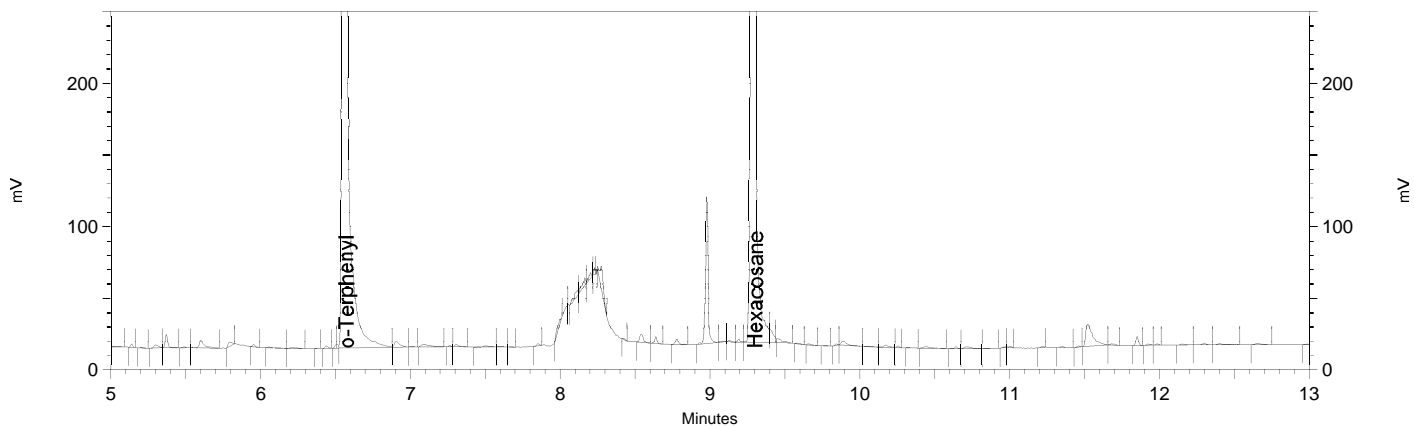


Sample Name: 301314-003,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 2:34:50 PM
 Analysis Date: 7/10/2018 2:58:10 PM
 Instrument: GC17A Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.572	4009985	51.714
Hexacosane	9.298	3381751	47.206



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a017

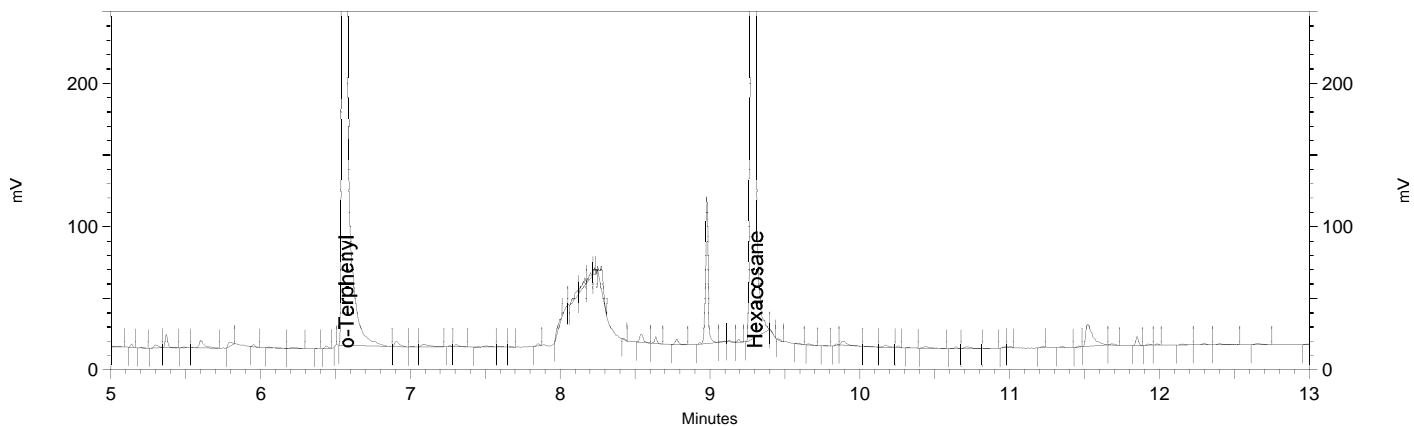
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.479	7.047	0
Yes	Manual Baseline	9.221	9.548	0

Sample Name: 301314-003,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 2:34:50 PM
 Analysis Date: 7/10/2018 2:57:53 PM
 Instrument: GC17A Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.572	3983222	51.369
Hexacosane	9.298	3336368	46.572



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

QC Raw Data

ENTHALPY BLANK USER REPORT FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Lab ID : QC938836
 Seqnum : 178275372009.2 Matrix : Water
 File : 191a009 Batch : 261242 Time : 10-JUL-2018 10:54
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

Analyte	Cal	Raw	Result	RL	Flags
Diesel C10-C24	178265382002	3.731	19 J	50	u
Motor Oil C24-C36	178265382003	4.740	ND	300	u
Bunker C C12-C40	177456968001	20.21	ND	300	u

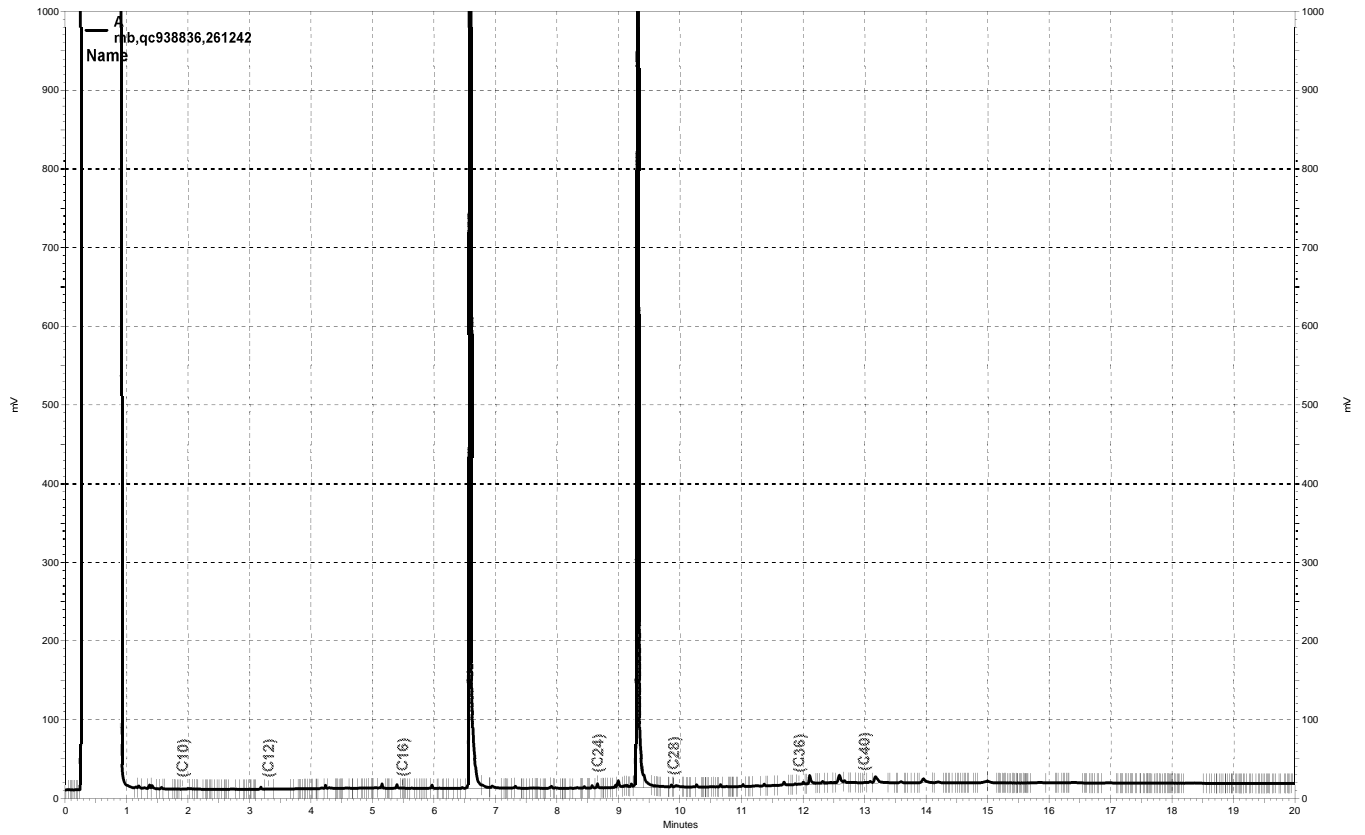
Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	178265382004	55.70	250.0	278.5	111	58-123	u

WA1 07/10/18 : Corrected automatically drawn baseline. [general version]

WA1 07/10/18 : This MB is for job Bunker C. [general version]

Analyst: CB1 Date: 07/11/18 Reviewer: EAH Date: 07/12/18

u=use



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a009, A

Sample Name: **mb,qc938836,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 10:54:46 AM
 Analysis Date: 7/10/2018 11:22:59 AM
 Instrument: GC17A Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	129057	1.595
DSL:10-22	4540818	71.926
DSL:10-24	4560530	70.483
DSL:10-28	8455027	129.373
DSL:12-24	4547863	81.801
DSL:12-28	8442360	150.095
DSL:16-24	4437278	152.034
MO:22-32	3941023	82.793
MO:24-36	3963351	80.598
MO:28-40	224549	6.964
BUNKC:10-40	8662370	283.184
BUNKC:12-40	8649703	291.161

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

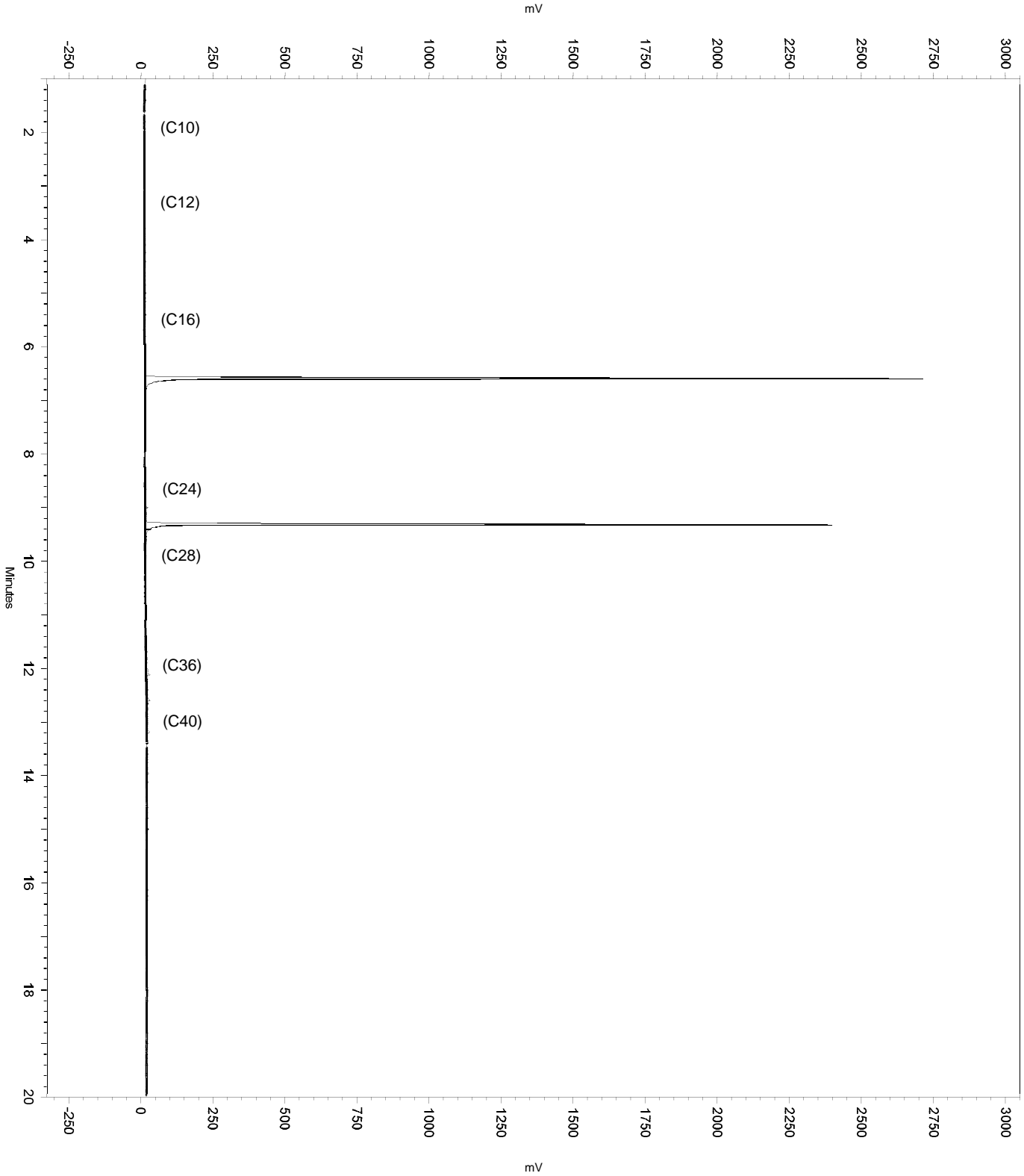
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a009
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Peak          6.506     7.113     0
No Split Peak           6.895     0          0
No Manual Baseline      8.831    10.148     0
  
```

Sample Name: mb,qc938836,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a009
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 10:54:46 AM
Analysis Date: 7/10/2018 11:22:59 AM
Instrument: GC17A Vial: 9 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

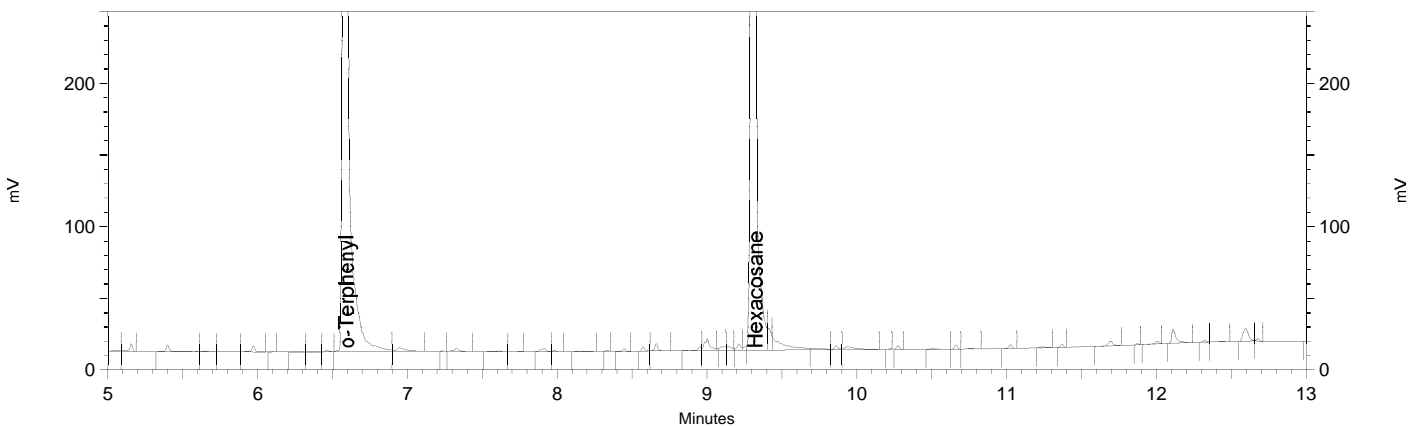


Sample Name: **mb,qc938836,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 10:54:46 AM
 Analysis Date: 7/10/2018 11:22:42 AM
 Instrument: GC17A Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.595	4319121	55.700
Hexacosane	9.322	3730285	52.071



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a009

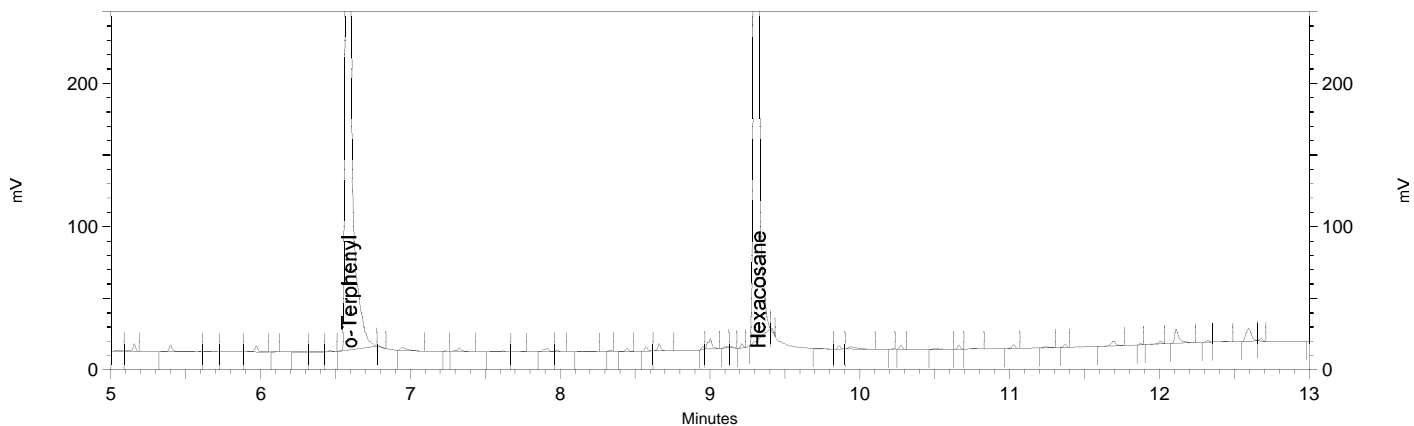
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.506	7.113	0
Yes	Split Peak	6.895	0	0
Yes	Manual Baseline	8.831	10.148	0

Sample Name: **mb,qc938836,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 10:54:46 AM
 Analysis Date: 7/10/2018 11:22:23 AM
 Instrument: GC17A Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.595	4274000	55.118
Hexacosane	9.322	3653260	50.996



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SPIKE USER REPORT FOR 301314 GCSV Water
EPA 8015B

Type : BS
 Inst : GC17A
 Seqnum : 178275372010.2
 File : 191a010
 IDF : 1.0
 Lab ID : QC938837
 Matrix : Water
 Batch : 261242
 Time : 10-JUL-2018 11:22
 Cal : 178265382002
 Cal : 178265382004
 Units : ug/L

Type : BSD
 Inst : GC17A
 Seqnum : 178275372011.2
 File : 191a011
 IDF : 1.0
 Lab ID : QC938838
 Matrix : Water
 Batch : 261242
 Time : 10-JUL-2018 11:49
 Cal : 178265382002
 Cal : 178265382004

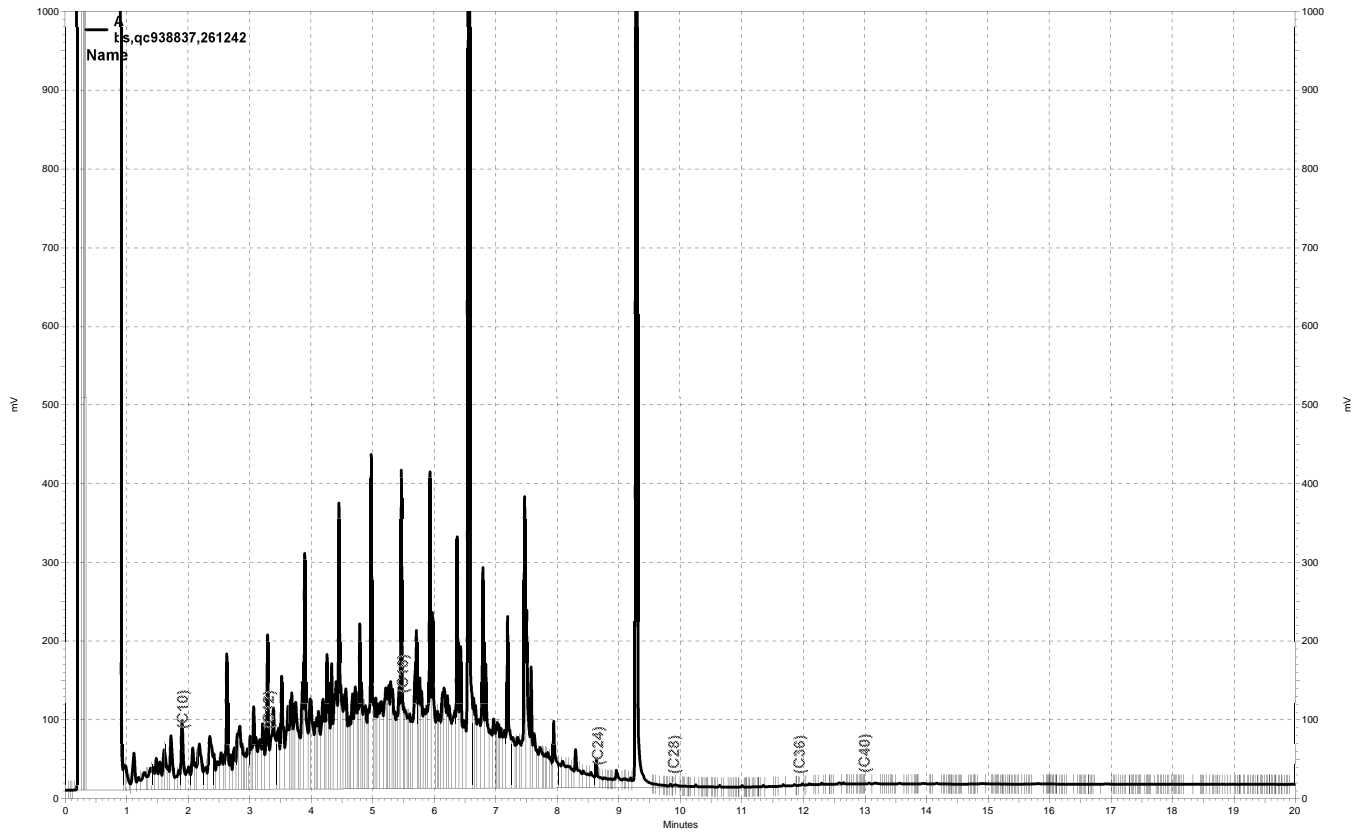
BS: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF
 BSD: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

Analyte	Spiked	BS Raw	BS Result	%Rec	BSD Raw	BSD Result	%Rec	Limits	RPD	Lim	Flags
Diesel C10-C24	2500	517.6	2588	104	517.1	2585	103	56-120	0	28	u
o-Terphenyl	250.0	55.88	279.4	112	56.16	280.8	112	58-123			u

WA1 07/10/18 : Corrected automatically drawn baseline for spike & dup. [general version]

Analyst: CB1 Date: 07/11/18 Reviewer: EAH Date: 07/12/18

u=use



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a010, A

Sample Name: **bs,qc938837,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 11:22:17 AM
 Analysis Date: 7/10/2018 11:47:25 AM
 Instrument: GC17A Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	18760980	231.797
DSL:10-22	36937012	585.078
DSL:10-24	37820316	584.515
DSL:10-28	42067620	643.690
DSL:12-24	33876060	609.318
DSL:12-28	38123364	677.788
DSL:16-24	20344416	697.059
MO:22-32	5526796	116.107
MO:24-36	4441658	90.325
MO:28-40	187031	5.800
BUNKC:10-40	42226512	1380.438
BUNKC:12-40	38282256	1288.635

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

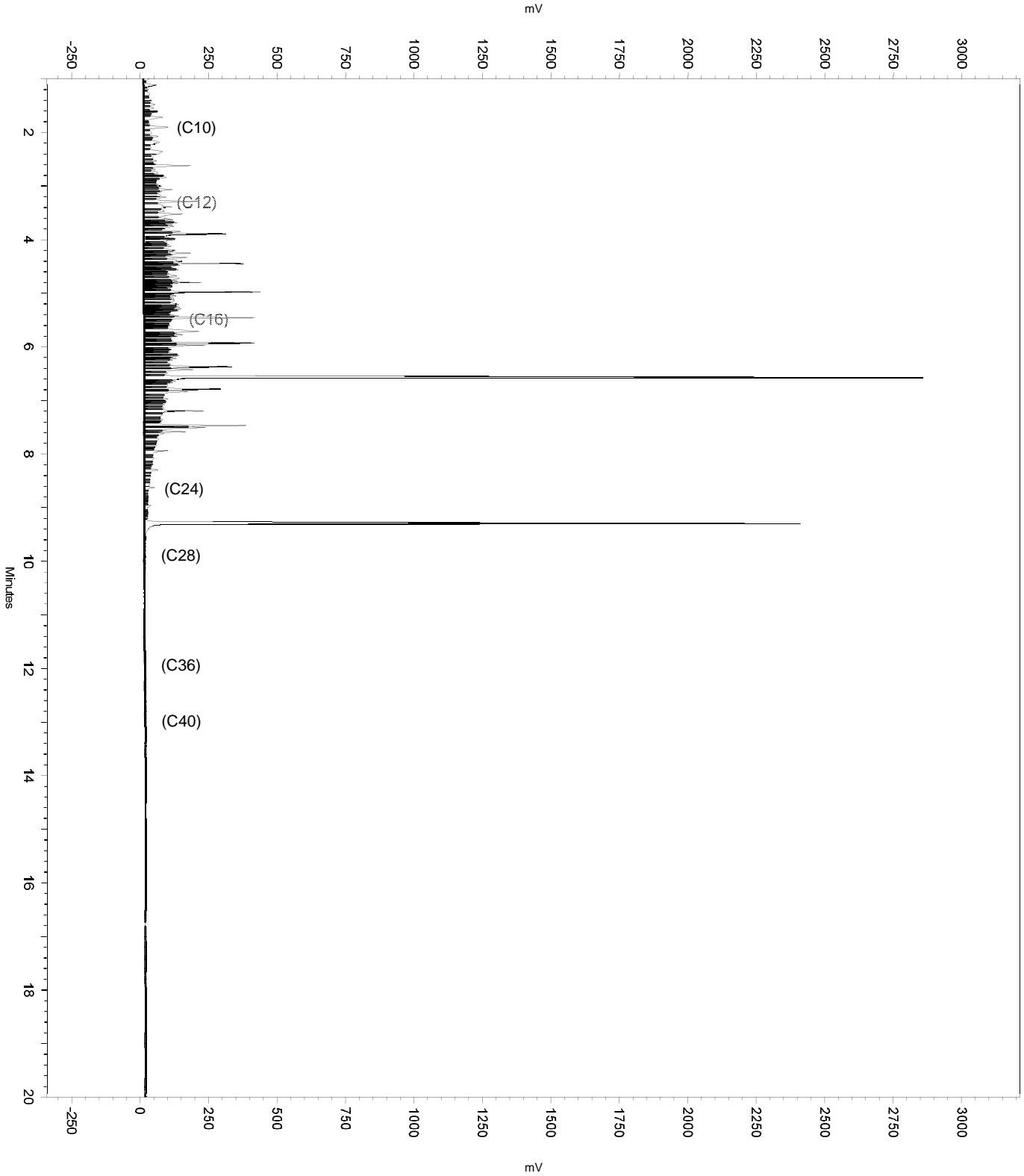
Manual Integration Fixes

=====

```

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a010
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Start       1.062     -0.004    0
No Manual Baseline      6.517     6.748    0
No Split Peak           6.598      0          0
No Manual Baseline      9.211     9.544    0
  
```

Sample Name: **bs,qc938837,261242**
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a010
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 11:22:17 AM
Analysis Date: 7/10/2018 11:47:25 AM
Instrument: GC17A Vial: 10 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: **bs,qc938837,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 11:22:17 AM
 Analysis Date: 7/10/2018 11:47:14 AM
 Instrument: GC17A Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	17567376	217.049
DSL:10-22	35300128	559.150
DSL:10-24	36112568	558.121
DSL:10-28	40283652	616.393
DSL:12-24	32697470	588.119
DSL:12-28	36868548	655.479
DSL:16-24	19793010	678.166
MO:22-32	5349741	112.388
MO:24-36	4342066	88.300
MO:28-40	169374	5.253
BUNKC:10-40	40431328	1321.751
BUNKC:12-40	37016224	1246.019

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

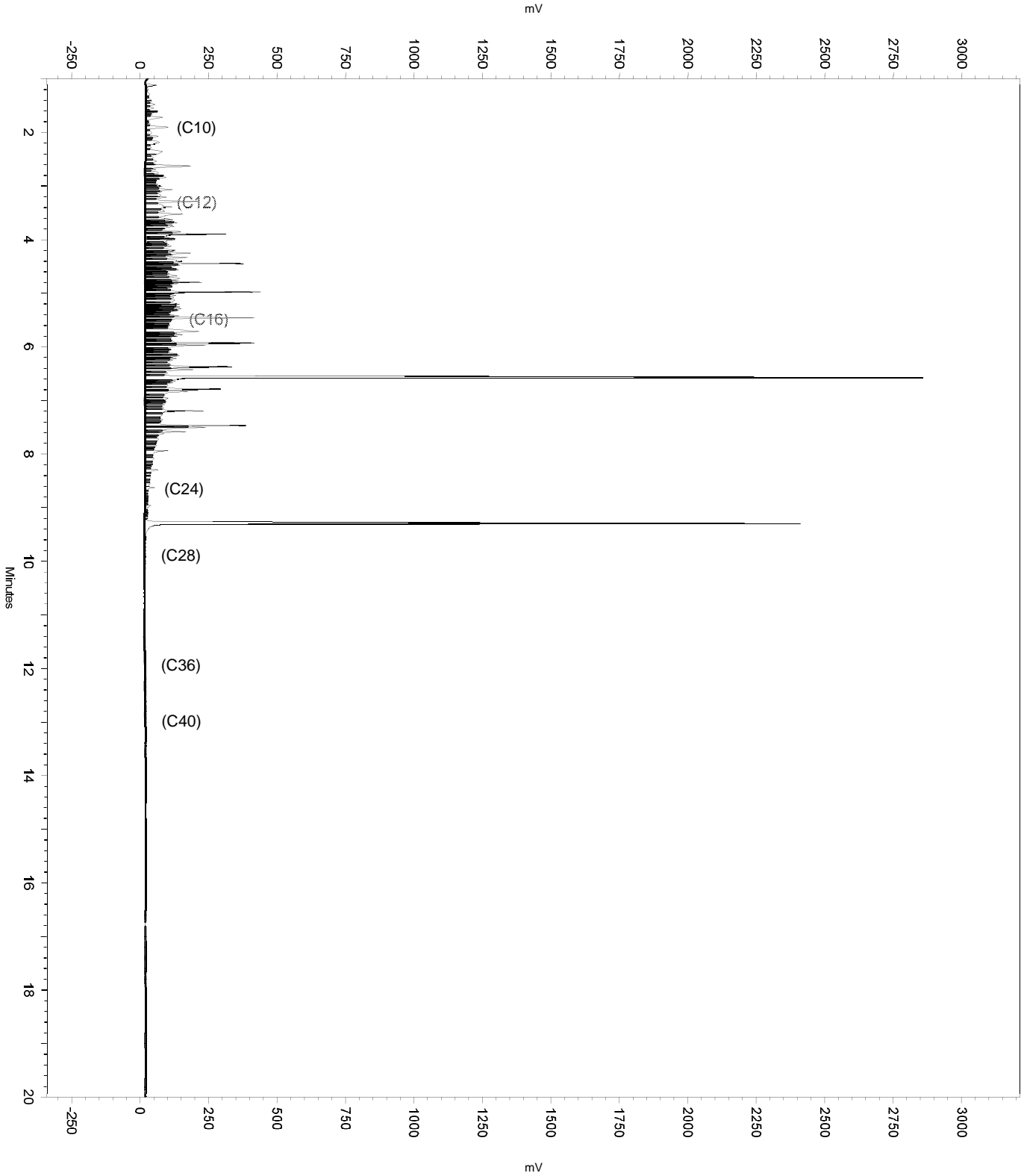
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a010
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.517     6.748     0
No Split Peak           6.598     0          0
No Manual Baseline      9.211     9.544     0
  
```

Sample Name: **bs,qc938837,261242**
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a010
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 11:22:17 AM
Analysis Date: 7/10/2018 11:47:14 AM
Instrument: GC17A Vial: 10 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

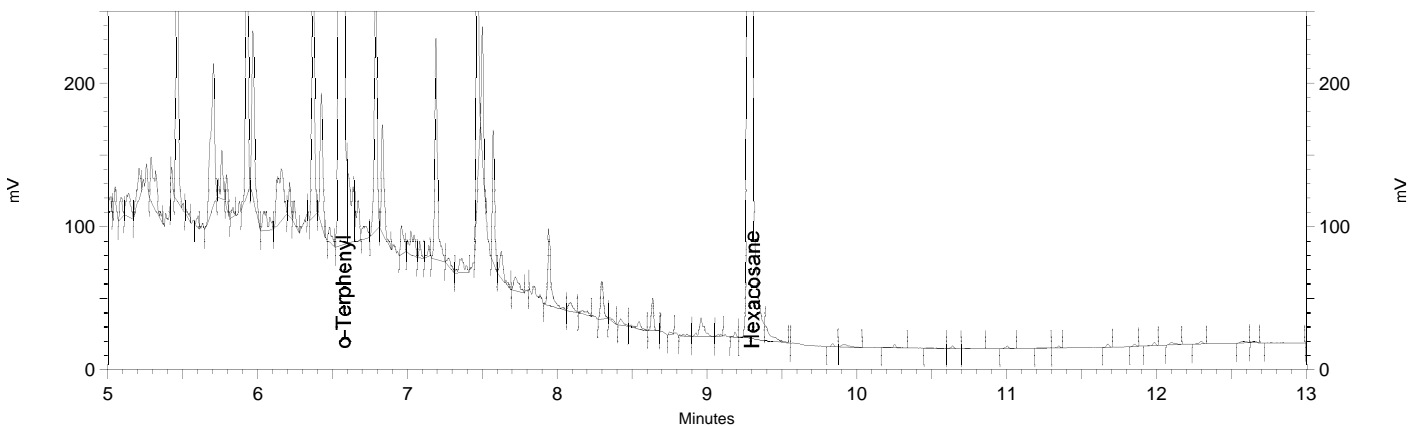


Sample Name: **bs,qc938837,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothurr184b.met
 Run Date: 7/10/2018 11:22:17 AM
 Analysis Date: 7/10/2018 11:46:58 AM
 Instrument: GC17A Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.575	4332854	55.877
Hexacosane	9.298	3682028	51.397



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a010

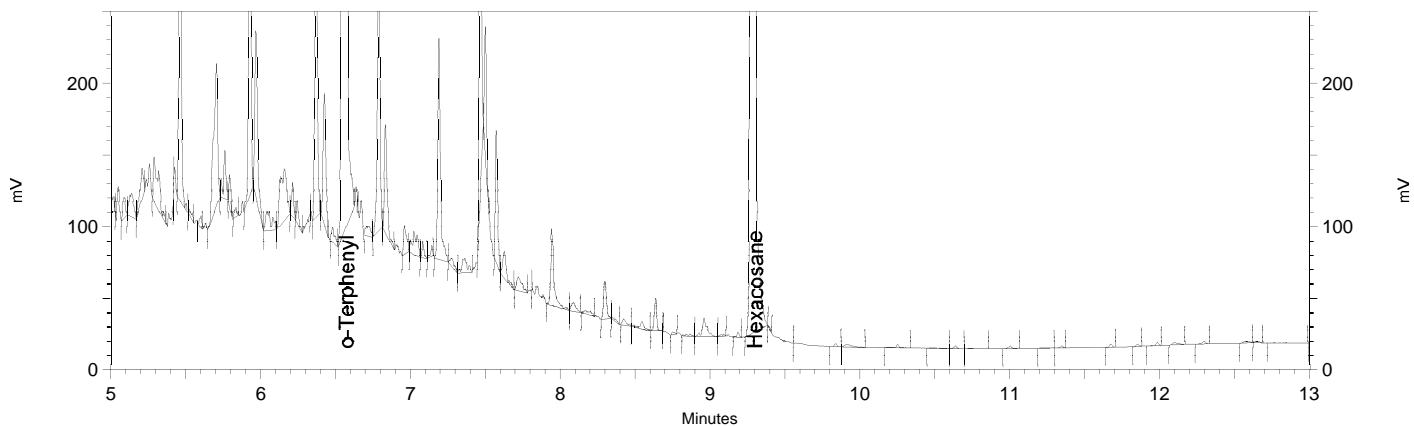
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.517	6.748	0
Yes	Split Peak	6.598	0	0
Yes	Manual Baseline	9.211	9.544	0

Sample Name: **bs,qc938837,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 11:22:17 AM
 Analysis Date: 7/10/2018 11:46:39 AM
 Instrument: GC17A Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.575	4319135	55.701
Hexacosane	9.298	3629889	50.669



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

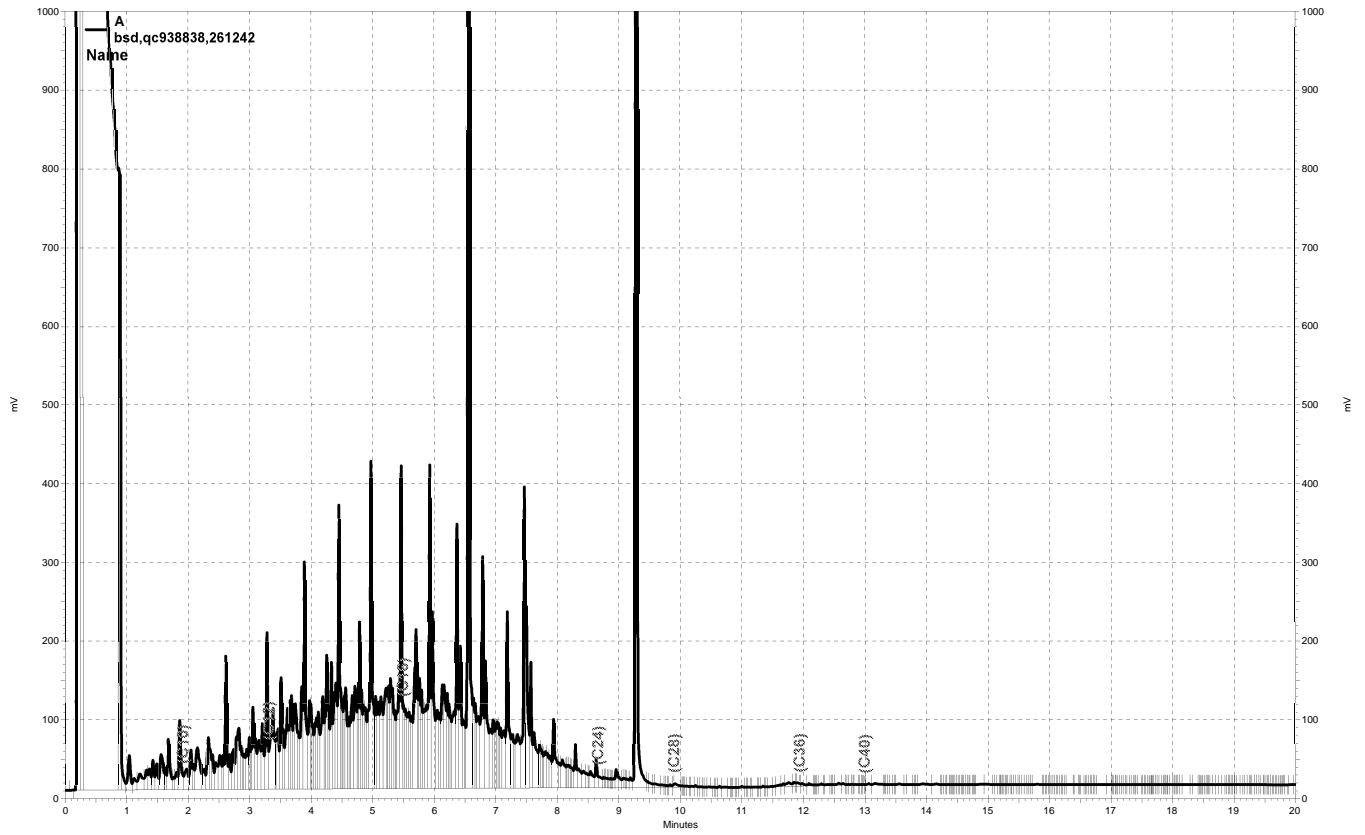
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0       20    100
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a010
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a011, A

Sample Name: **bsd,qc938838,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 11:49:38 AM
 Analysis Date: 7/10/2018 12:12:12 PM
 Instrument: GC17A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	18342724	226.629
DSL:10-22	36903252	584.543
DSL:10-24	37810068	584.356
DSL:10-28	42135288	644.726
DSL:12-24	34084084	613.060
DSL:12-28	38409304	682.872
DSL:16-24	20818920	713.317
MO:22-32	5610151	117.858
MO:24-36	4584516	93.230
MO:28-40	214877	6.664
BUNKC:10-40	42316972	1383.395
BUNKC:12-40	38590988	1299.027

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

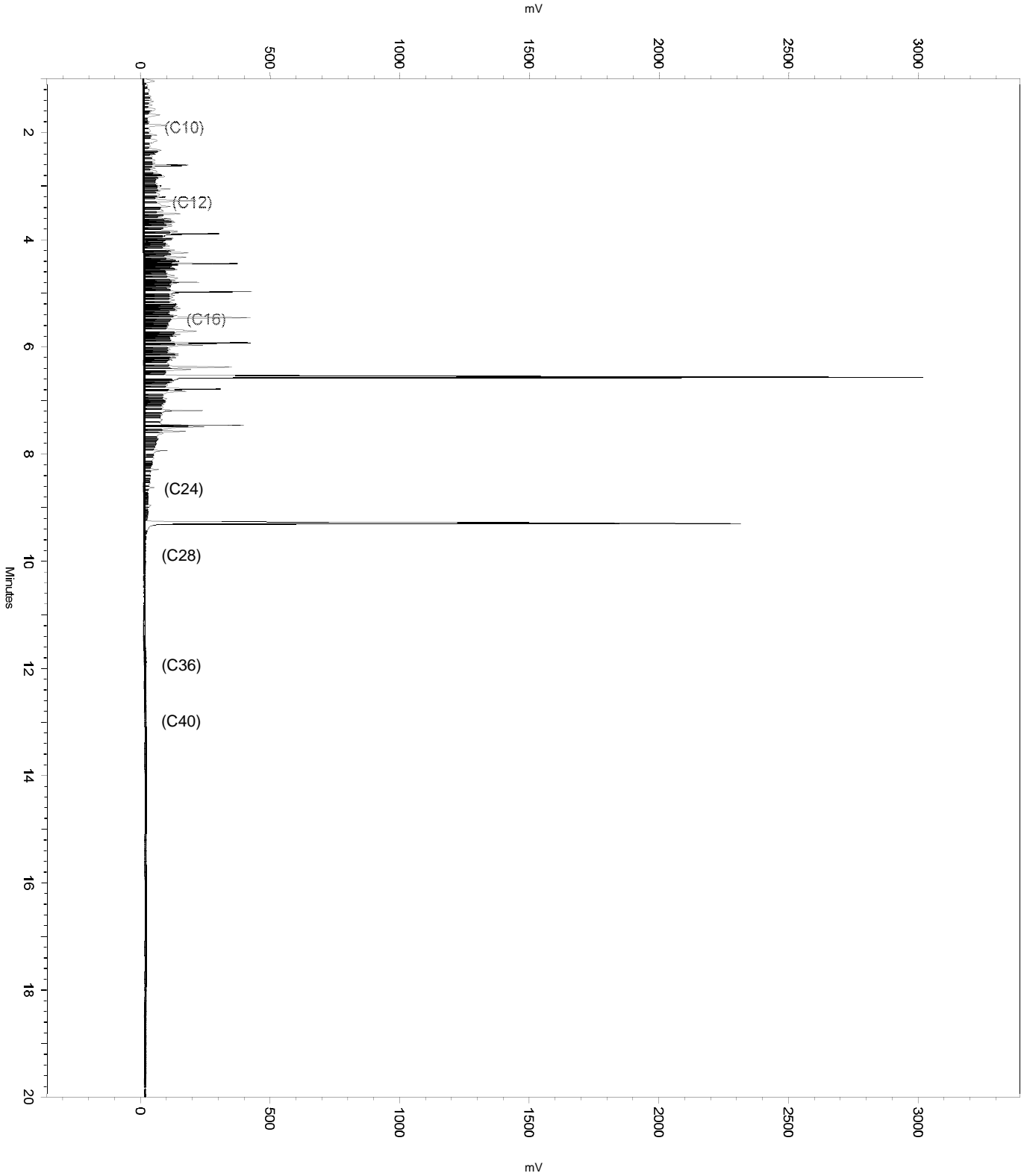
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a011
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.513      6.742     0
No Split Peak           6.591      0          0
No Reassign Peak        6.597      6.561     0
No Manual Baseline      9.22       9.521     0
Yes Move BL Start       10.432     -0.02     0
  
```


Sample Name: **bsd,qc938838,261242**
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a011
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 11:49:38 AM
Analysis Date: 7/10/2018 12:12:12 PM
Instrument: GC17A Vial: 11 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: **bsd,qc938838,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 11:49:38 AM
 Analysis Date: 7/10/2018 12:11:58 PM
 Instrument: GC17A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	7176615	88.669
DSL:10-22	19280364	305.399
DSL:10-24	19505624	301.460
DSL:10-28	23396116	357.992
DSL:12-24	17703860	318.434
DSL:12-28	21594352	383.922
DSL:16-24	13037357	446.698
MO:22-32	4276170	89.834
MO:24-36	4035863	82.073
MO:28-40	183985	5.706
BUNKC:10-40	23565032	770.371
BUNKC:12-40	21763268	732.583

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

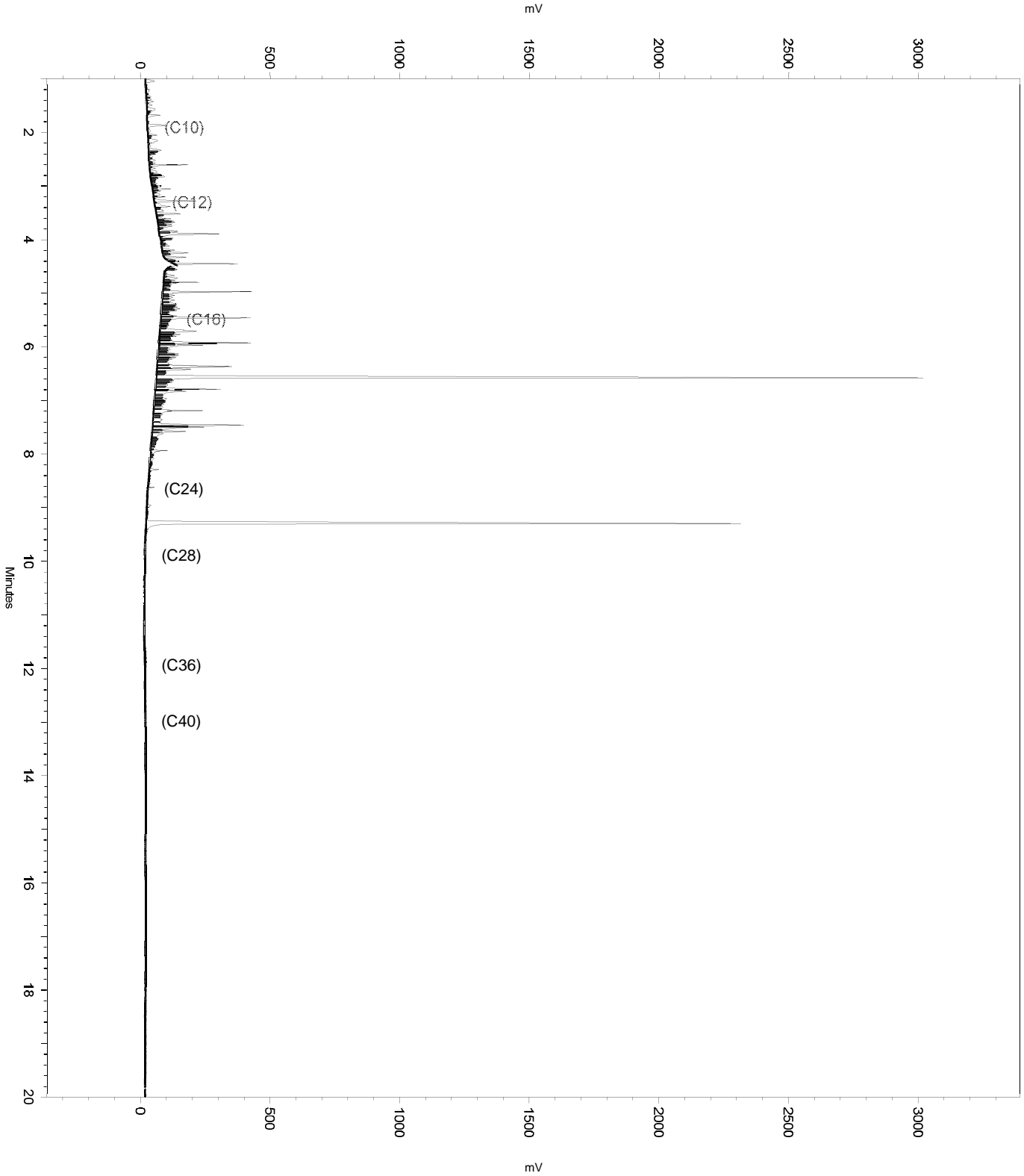
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a011
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.513      6.742     0
No Split Peak           6.591      0          0
No Reassign Peak        6.597      6.561     0
No Manual Baseline      9.22       9.521     0
  
```

Sample Name: **bsd,qc938838,261242**
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a011
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 11:49:38 AM
Analysis Date: 7/10/2018 12:11:58 PM
Instrument: GC17A Vial: 11 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

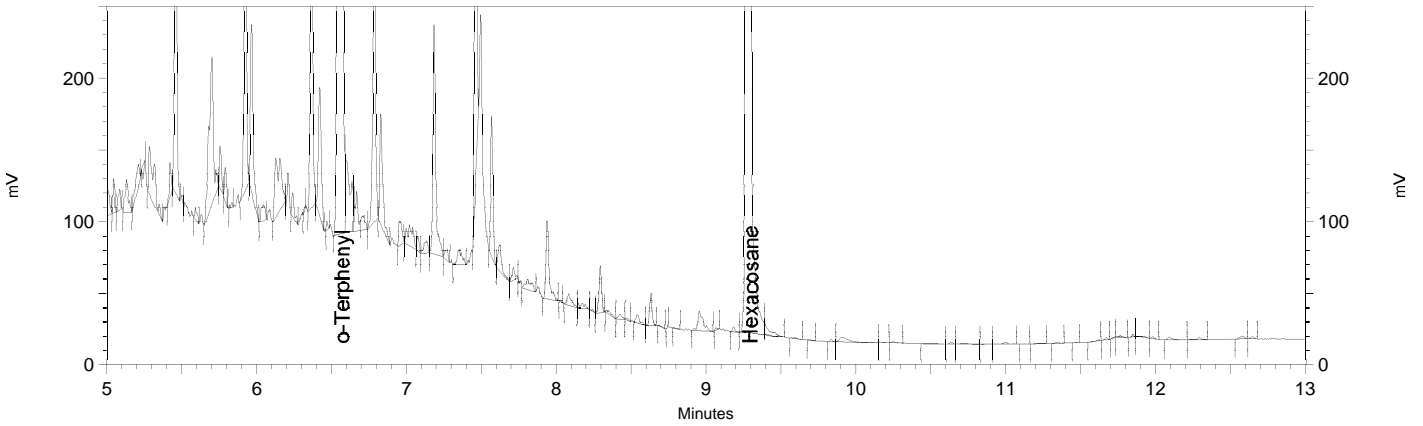


Sample Name: **bsd,qc938838,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 11:49:38 AM
 Analysis Date: 7/10/2018 12:11:43 PM
 Instrument: GC17A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.572	4354460	56.156
Hexacosane	9.295	3749763	52.343



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a011

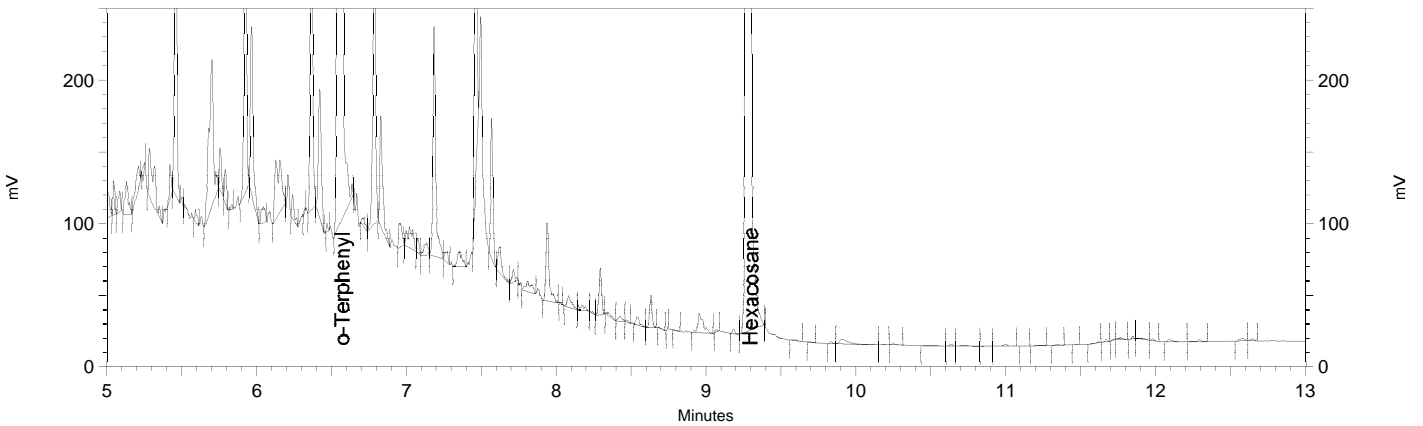
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.513	6.742	0
Yes	Split Peak	6.591	0	0
Yes	Reassign Peak	6.597	6.561	0
Yes	Manual Baseline	9.22	9.521	0

Sample Name: **bsd,qc938838,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothurr184b.met
 Run Date: 7/10/2018 11:49:38 AM
 Analysis Date: 7/10/2018 12:11:21 PM
 Instrument: GC17A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.572	4367441	56.323
Hexacosane	9.295	3704942	51.717



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0     100
Yes Valley to Valley     0       20     0
Yes Shoulder Sensitivity 0       20    100
Yes Integration Off      0       2      0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a011
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 301314 GCSV Water: EPA 8015B

Inst : GC17A
 Calnum : 177456968001
 Units : mg/L

Name : BUNK_317
 Date : 13-NOV-2017 17:52
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	317a018	177456968018	BUNK_500	13-NOV-2017 17:52	S34383

Analyte	L1	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Bunker C C12-C40	29708	AVRG		3.37E-5		29708	0	0.995	20	

Spiked Amounts / Drifts	L1	%D
Bunker C C12-C40	500.00	0

Analyst: WA1

Date: 11/13/17

Reviewer: EAH

Date: 11/13/17

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

Continuing Calibration Verification Raw Data

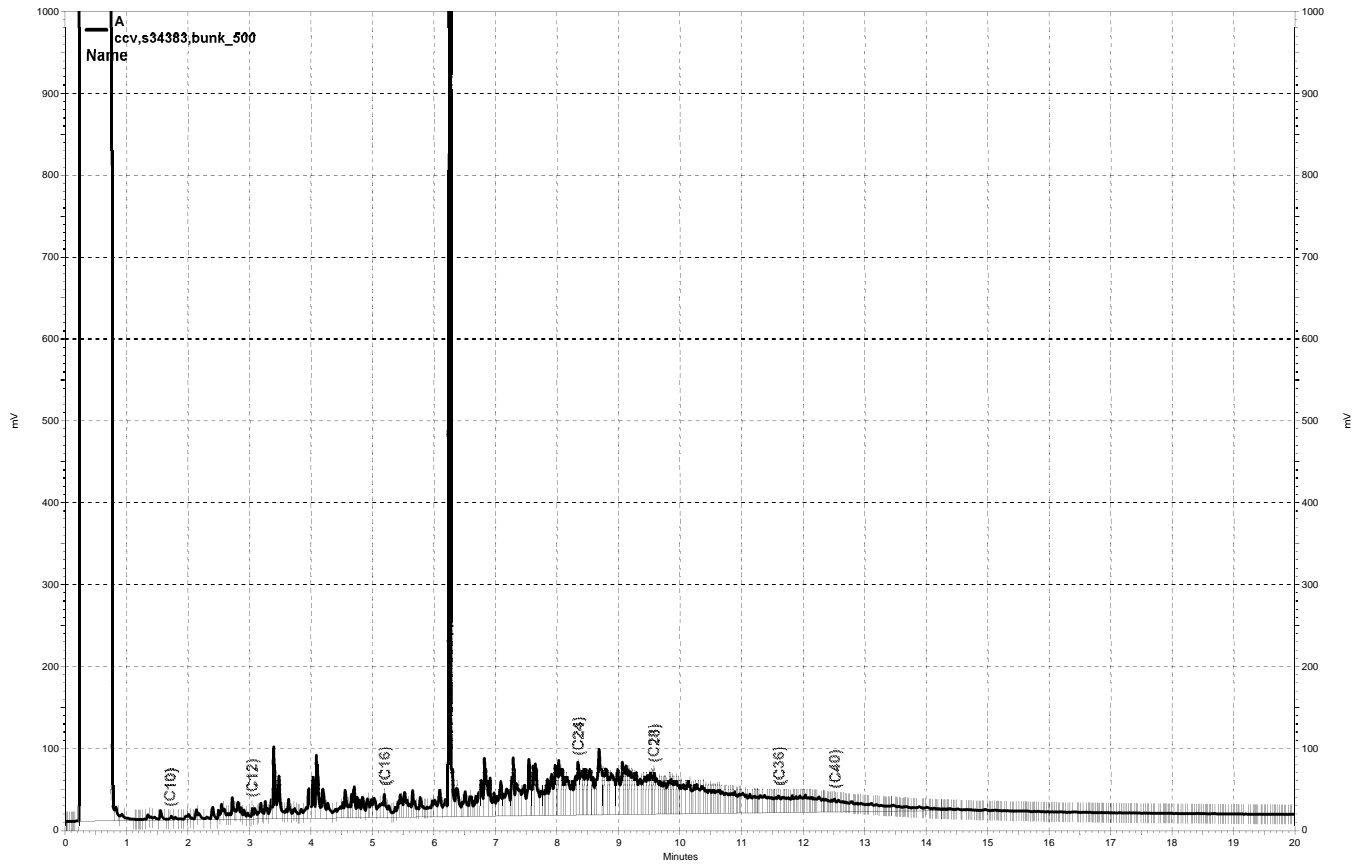
ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : BUNK_500 IDF : 1.0
Seqnum : 177456968018 File : 317a018 Time : 13-NOV-2017 17:52
Standards: S34383

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Bunker C C12-C40	177456968001	13-NOV-2017	29708	29708	500.0	500.0	mg/L	0	15	
o-Terphenyl	177428213001	24-OCT-2017	92735	82657	50.00	44.57	mg/L	-11	15	

WA1 11/13/17 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 11/13/17 Reviewer: EAH Date: 11/13/17



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018, A

Sample Name: **ccv,s34383,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2017\317.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh317.met
 Run Date: 11/13/2017 5:52:27 PM
 Analysis Date: 11/13/2017 6:23:46 PM
 Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	2702315	34.553
DSL:10-22	10167434	136.325
DSL:10-24	11899969	154.841
DSL:10-28	15359856	197.191
DSL:12-24	11459166	174.652
DSL:12-28	14919053	223.836
DSL:16-24	9354227	266.825
MO:22-32	7535218	142.898
MO:24-36	7067366	133.004
MO:28-40	4487013	134.102
BUNKC:10-40	19427436	508.154
BUNKC:12-40	18986636	511.923

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

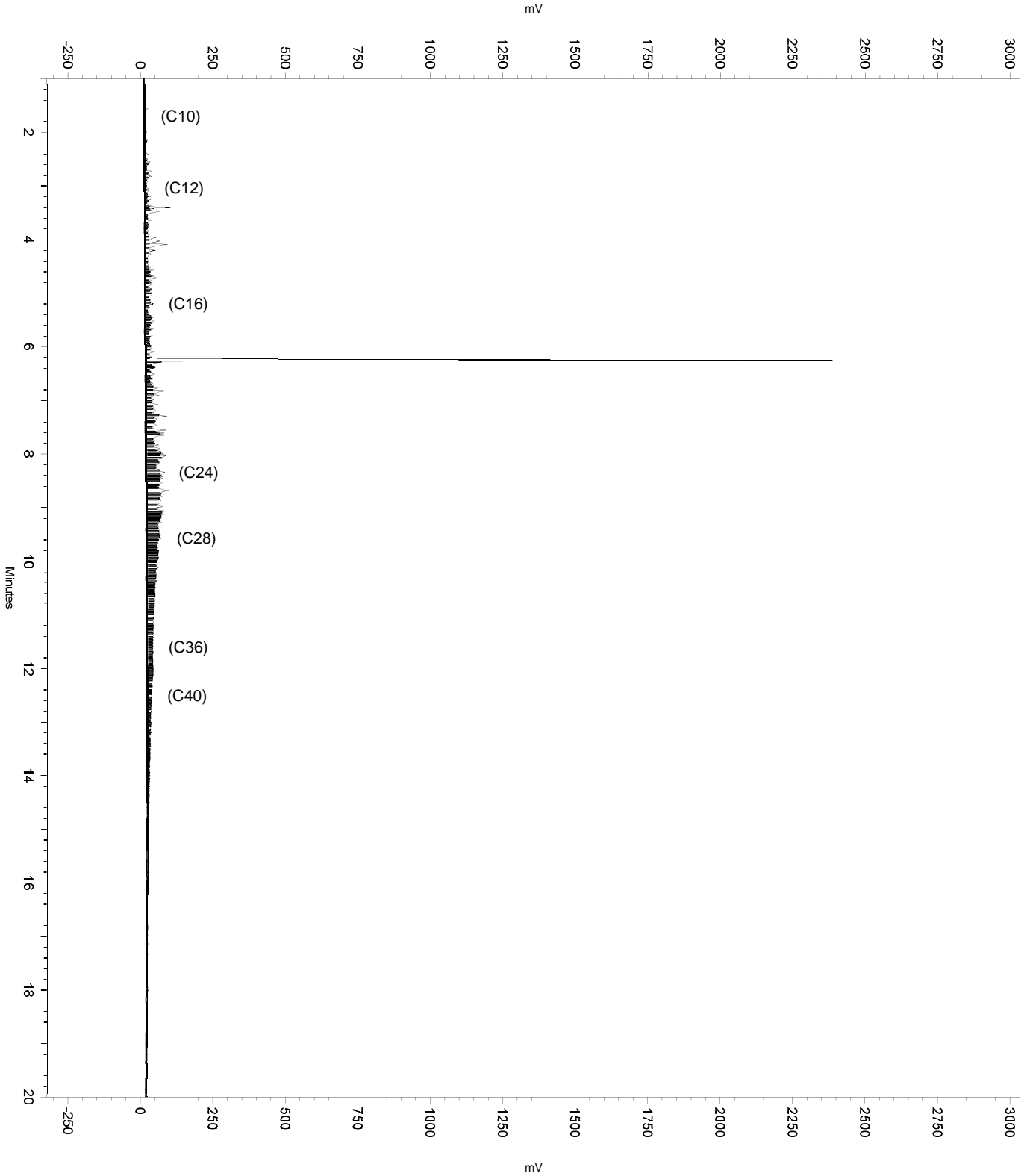
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Start       1.932     0.028     0
No Manual Baseline      6.211     6.443     0
  
```

Sample Name: ccv,s34383,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2017\317.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh317.met
Run Date: 11/13/2017 5:52:27 PM
Analysis Date: 11/13/2017 6:23:46 PM
Instrument: GC17A Vial: 18 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: **ccv,s34383,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2017\317.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\teh317.met
 Run Date: 11/13/2017 5:52:27 PM
 Analysis Date: 11/13/2017 6:23:33 PM
 Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	2569516	32.855
DSL:10-22	9971567	133.699
DSL:10-24	11689341	152.100
DSL:10-28	15126491	194.195
DSL:12-24	11301244	172.245
DSL:12-28	14738394	221.125
DSL:16-24	9270574	264.439
MO:22-32	7479280	141.837
MO:24-36	7015070	132.020
MO:28-40	4450146	133.000
BUNKC:10-40	19159894	501.155
BUNKC:12-40	18771794	506.130

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

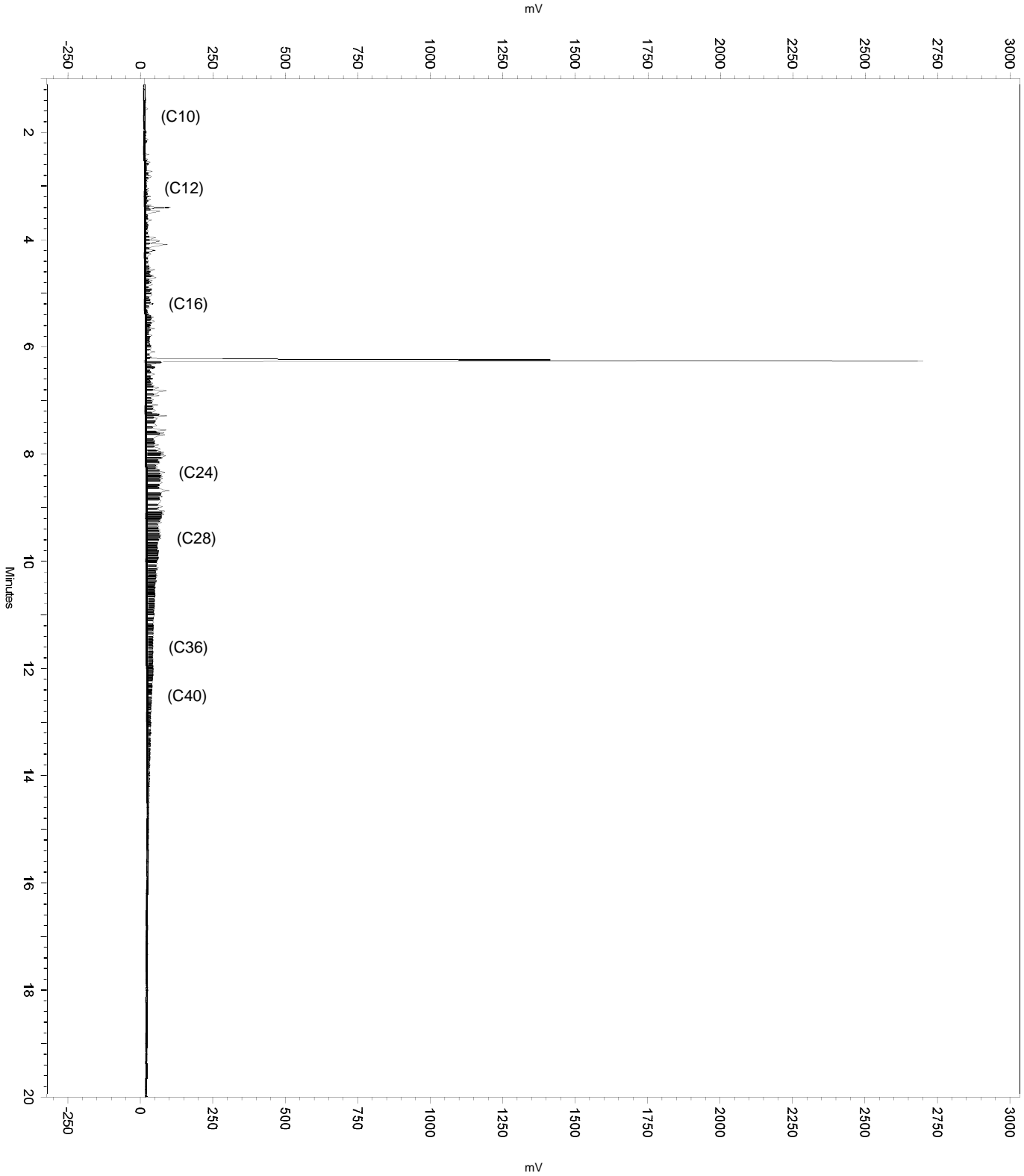
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline     6.211     6.443     0
  
```

Sample Name: ccv,s34383,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2017\317.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh317.met
Run Date: 11/13/2017 5:52:27 PM
Analysis Date: 11/13/2017 6:23:33 PM
Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: **ccv,s34383,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2017\317.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh317a.met
 Run Date: 11/13/2017 5:52:27 PM
 Analysis Date: 11/13/2017 6:28:55 PM
 Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	2702315	34.553
DSL:10-22	10167434	136.325
DSL:10-24	11899969	154.841
DSL:10-28	15359856	197.191
DSL:12-24	11459166	174.652
DSL:12-28	14919053	223.836
DSL:16-24	9354227	266.825
MO:22-32	7535218	142.898
MO:24-36	7067366	133.004
MO:28-40	4487013	134.102
BUNKC:10-40	19427436	635.108
BUNKC:12-40	18986636	639.117

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

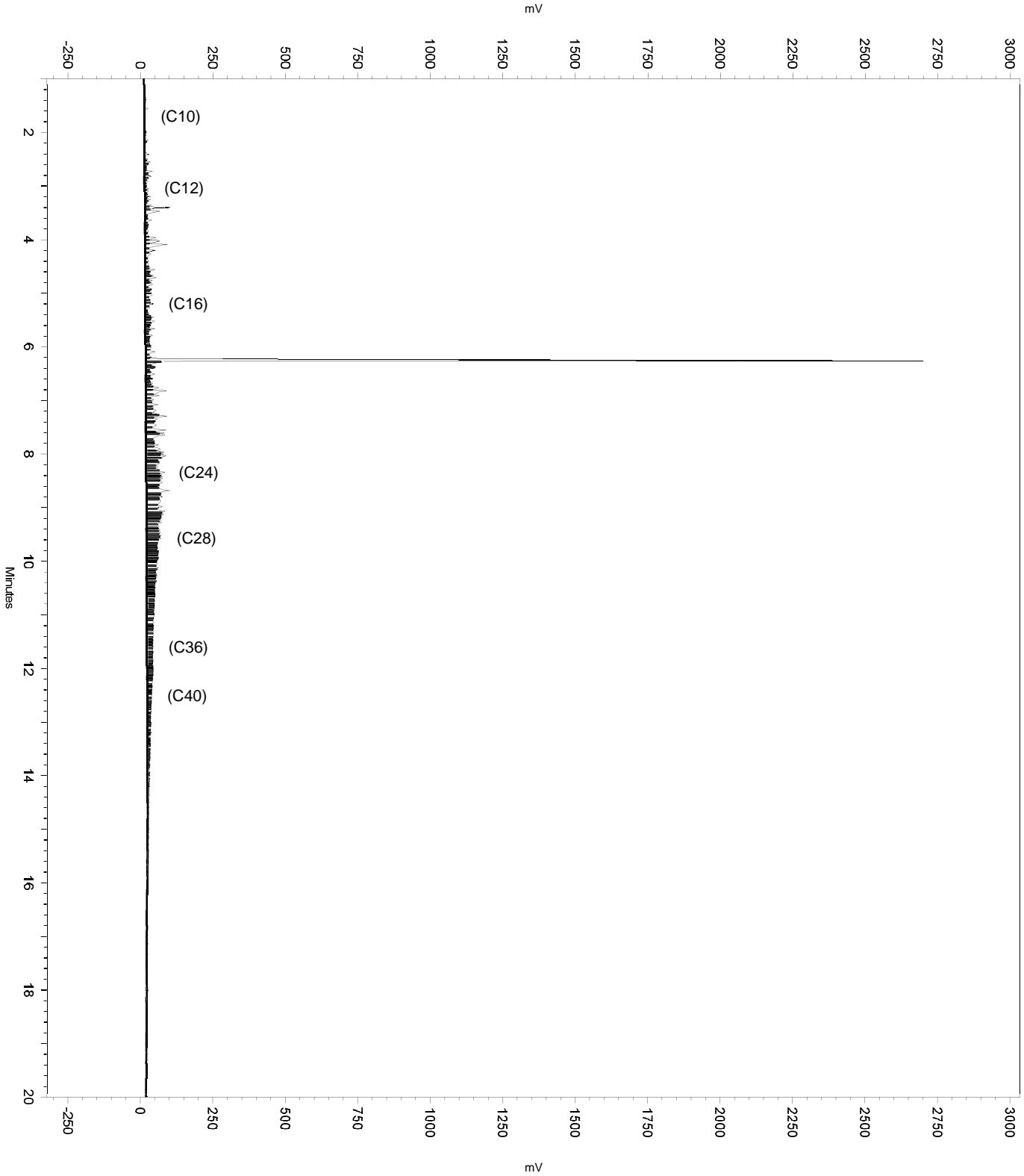
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Start       1.932     0.028     0
No Manual Baseline     6.211     6.443     0
  
```

Sample Name: ccv,s34383,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2017\317.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh317a.met
Run Date: 11/13/2017 5:52:27 PM
Analysis Date: 11/13/2017 6:28:55 PM
Instrument: GC17A Vial: 18 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

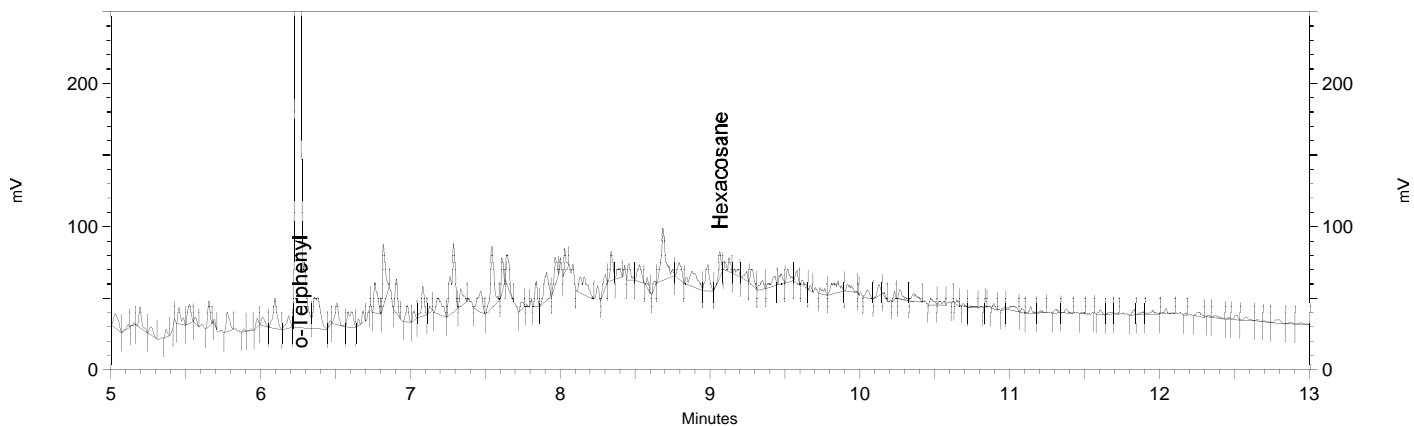


Sample Name: **ccv,s34383,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2017\317.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr317.met
 Run Date: 11/13/2017 5:52:27 PM
 Analysis Date: 11/13/2017 6:23:04 PM
 Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.263	4132831	44.566
Hexacosane	9.063	21921	0.278



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018

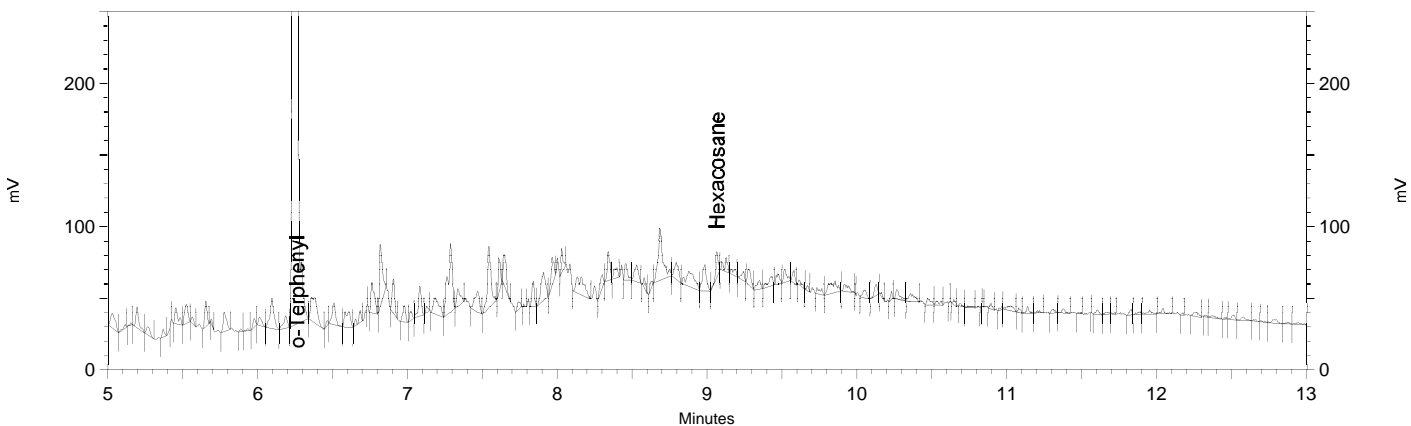
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.211	6.443	0

Sample Name: **ccv,s34383,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2017\317.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr317.met
 Run Date: 11/13/2017 5:52:27 PM
 Analysis Date: 11/13/2017 6:22:54 PM
 Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.263	4107138	44.289
Hexacosane	9.063	21921	0.278



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====				
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2017\317a018				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY INITIAL CALIBRATION FOR 301314 GCSV Water: EPA 8015B

Inst : GC17A
 Calnum : 178265382004
 Units : mg/L

Name : HEXOTP_184
 Date : 03-JUL-2018 19:03
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a015	178265382015	HEXOTP_2.5	03-JUL-2018 19:03	S36499 (2X)
L2	184a016	178265382016	HEXOTP_5	03-JUL-2018 19:31	S36499
L3	184a017	178265382017	HEXOTP_10	03-JUL-2018 19:58	S36500
L4	184a018	178265382018	HEXOTP_25	03-JUL-2018 20:26	S36501
L5	184a019	178265382019	HEXOTP_50	03-JUL-2018 20:53	S36502
L6	184a020	178265382020	HEXOTP_100	03-JUL-2018 21:21	S36503

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	71270	76293	79399	80459	79467	78365	AVRG		1.29E-5		77542	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	-8	5.0000	-2	10.000	2	25.000	4	50.000	2	100.00	1

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

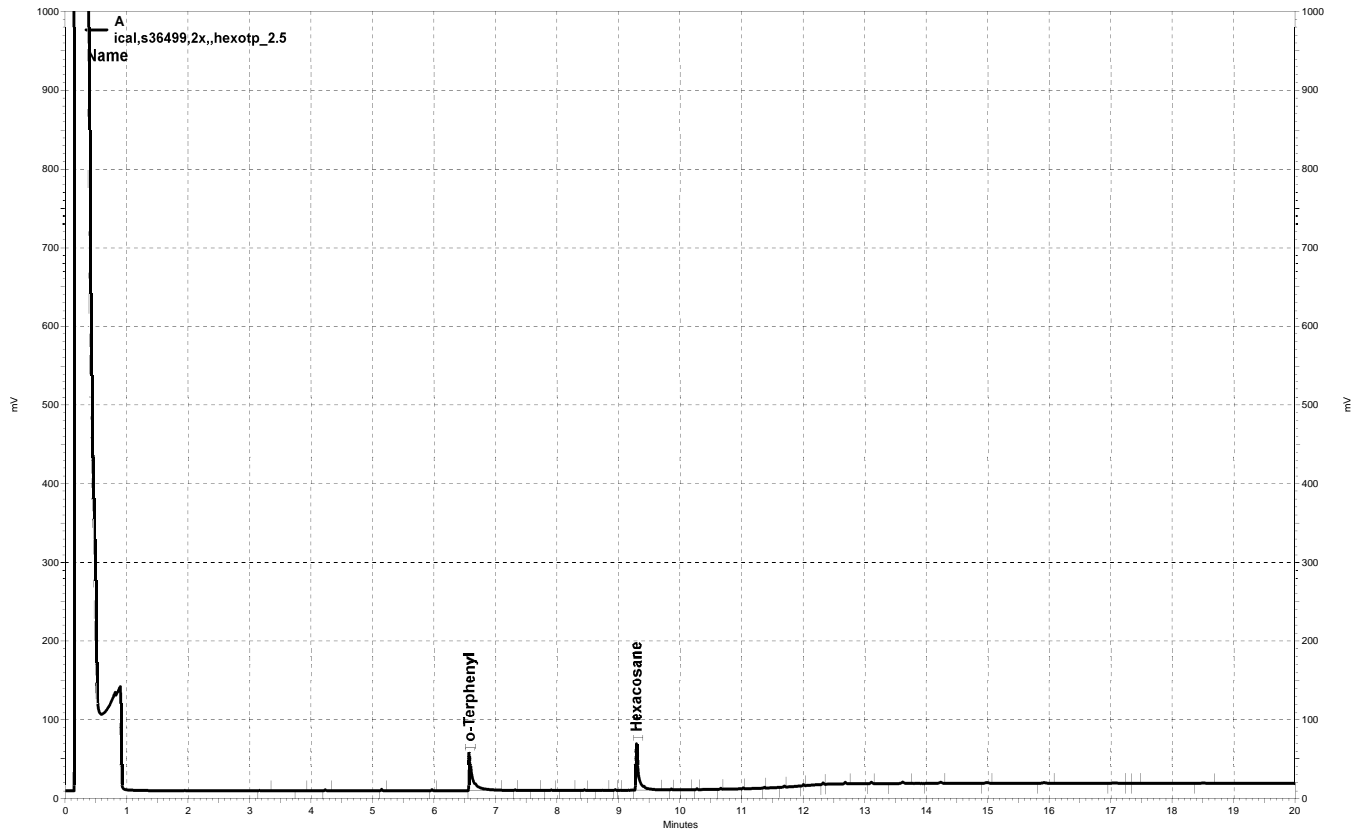
Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



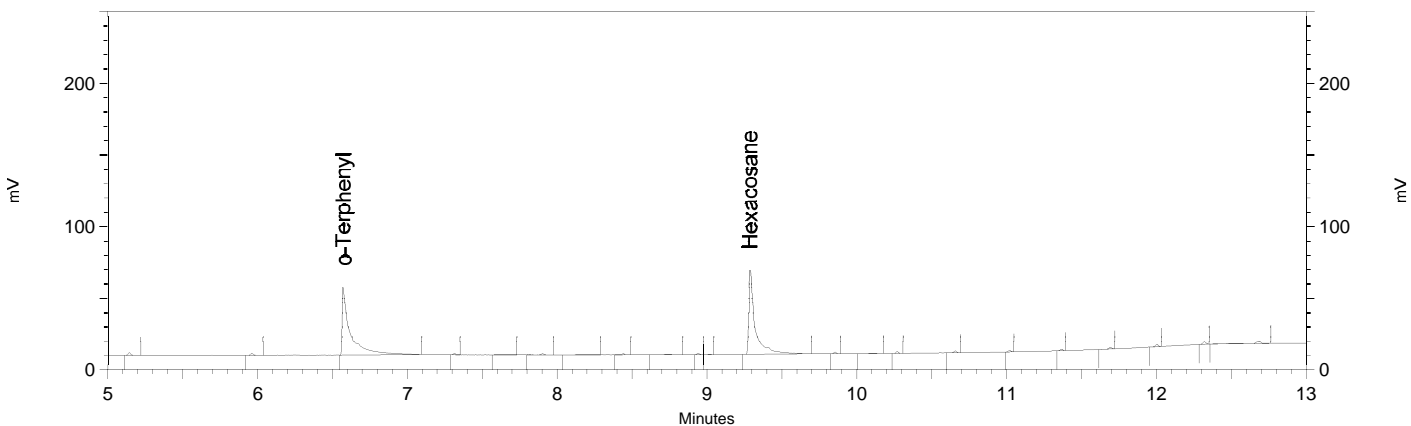
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a015, A

Sample Name: ical,s36499,2x,,hexotp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/3/2018 7:03:31 PM
 Analysis Date: 7/5/2018 10:53:19 AM
 Instrument: GC17A Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.573	178174	2.500 CAL
Hexacosane	9.285	169341	2.500 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a015

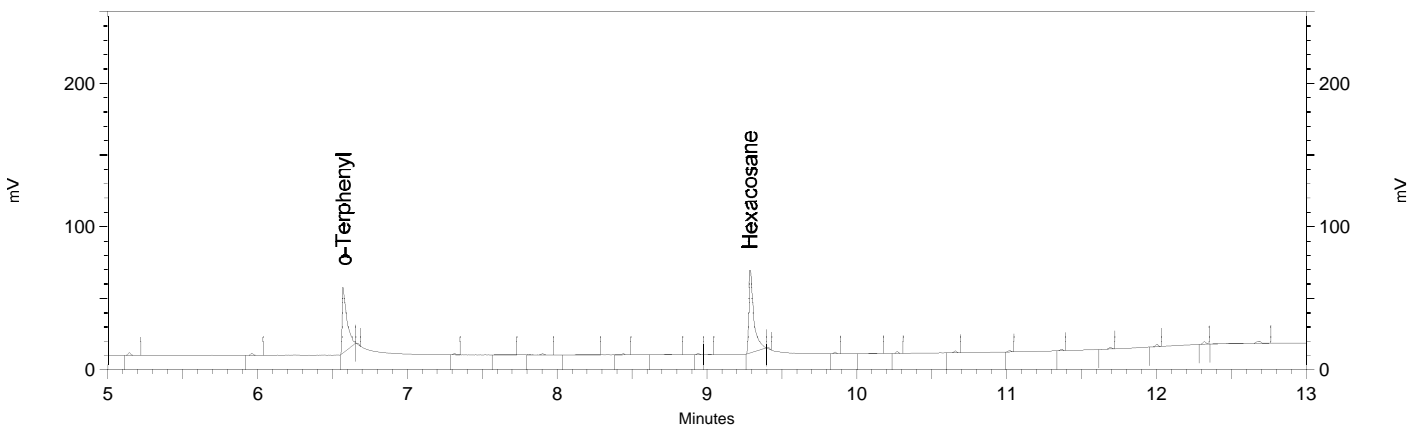
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.511	7.095	0
Yes	Manual Peak	9.218	9.709	0

Sample Name: ical,s36499,2x,,hexotp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/3/2018 7:03:31 PM
 Analysis Date: 7/5/2018 10:20:26 AM
 Instrument: GC17A Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.573	100336	5.000 CAL
Hexacosane	9.285	129641	5.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

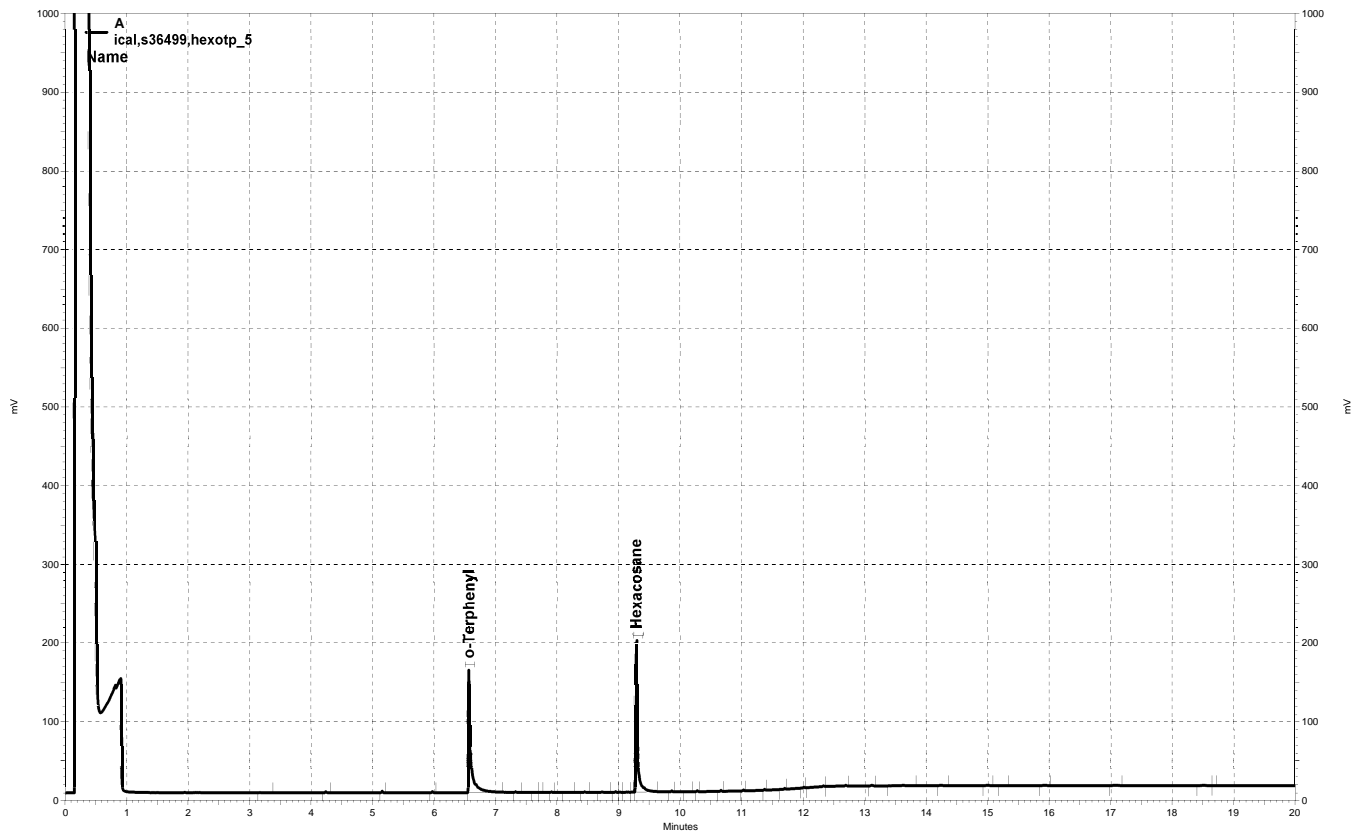
No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



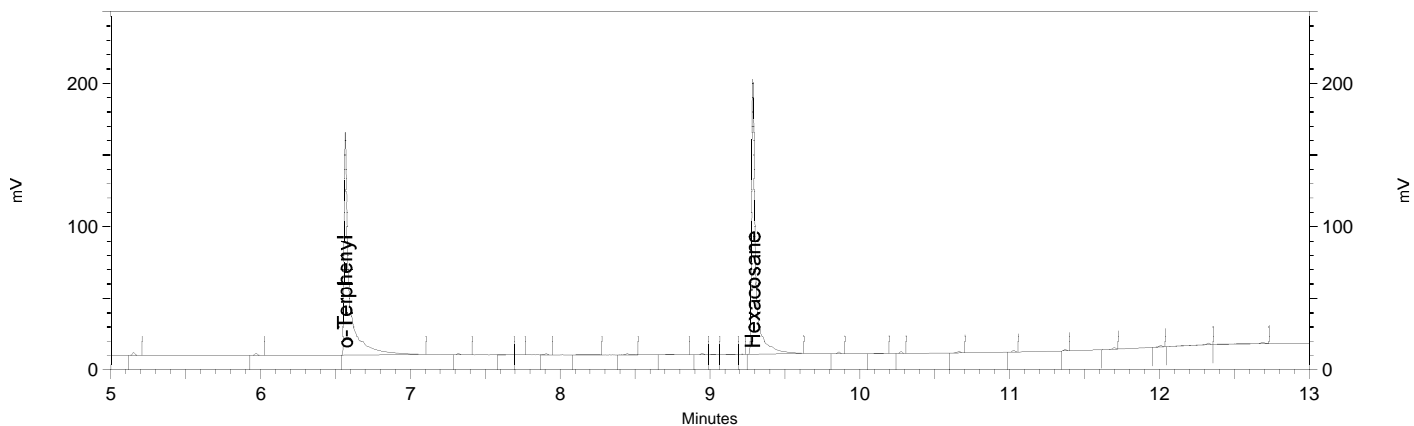
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a016, A

Sample Name: ical,s36499,hexotp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/3/2018 7:31:02 PM
 Analysis Date: 7/5/2018 10:53:23 AM
 Instrument: GC17A Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.567	381466	5.000 CAL
Hexacosane	9.285	355231	5.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a016

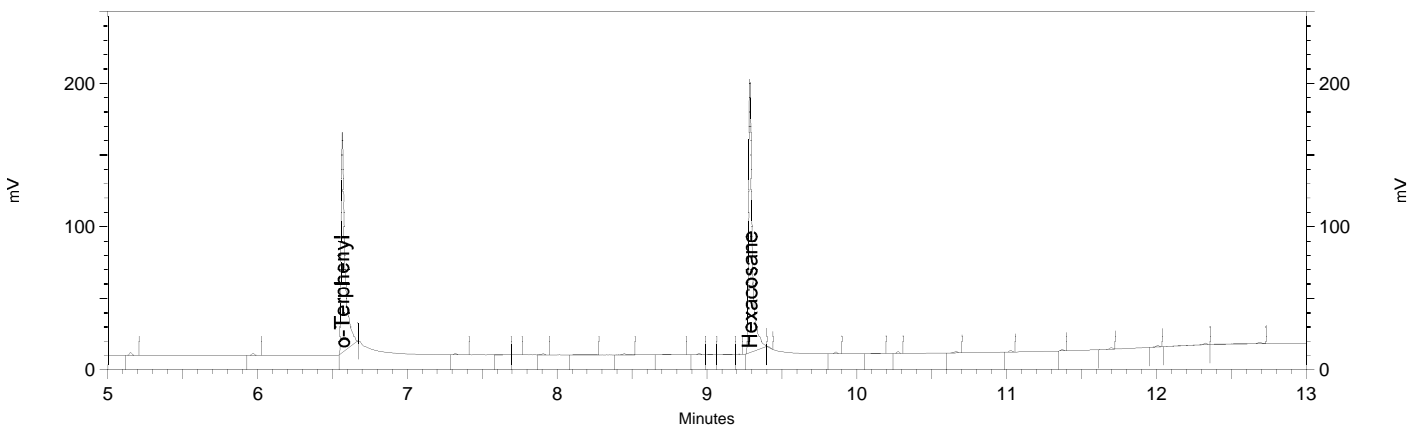
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.528	7.108	0
Yes	Manual Peak	9.244	9.625	0

Sample Name: ical,s36499,hexotp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/3/2018 7:31:02 PM
 Analysis Date: 7/5/2018 10:20:54 AM
 Instrument: GC17A Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.567	283832	10.000 CAL
Hexacosane	9.285	310287	10.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

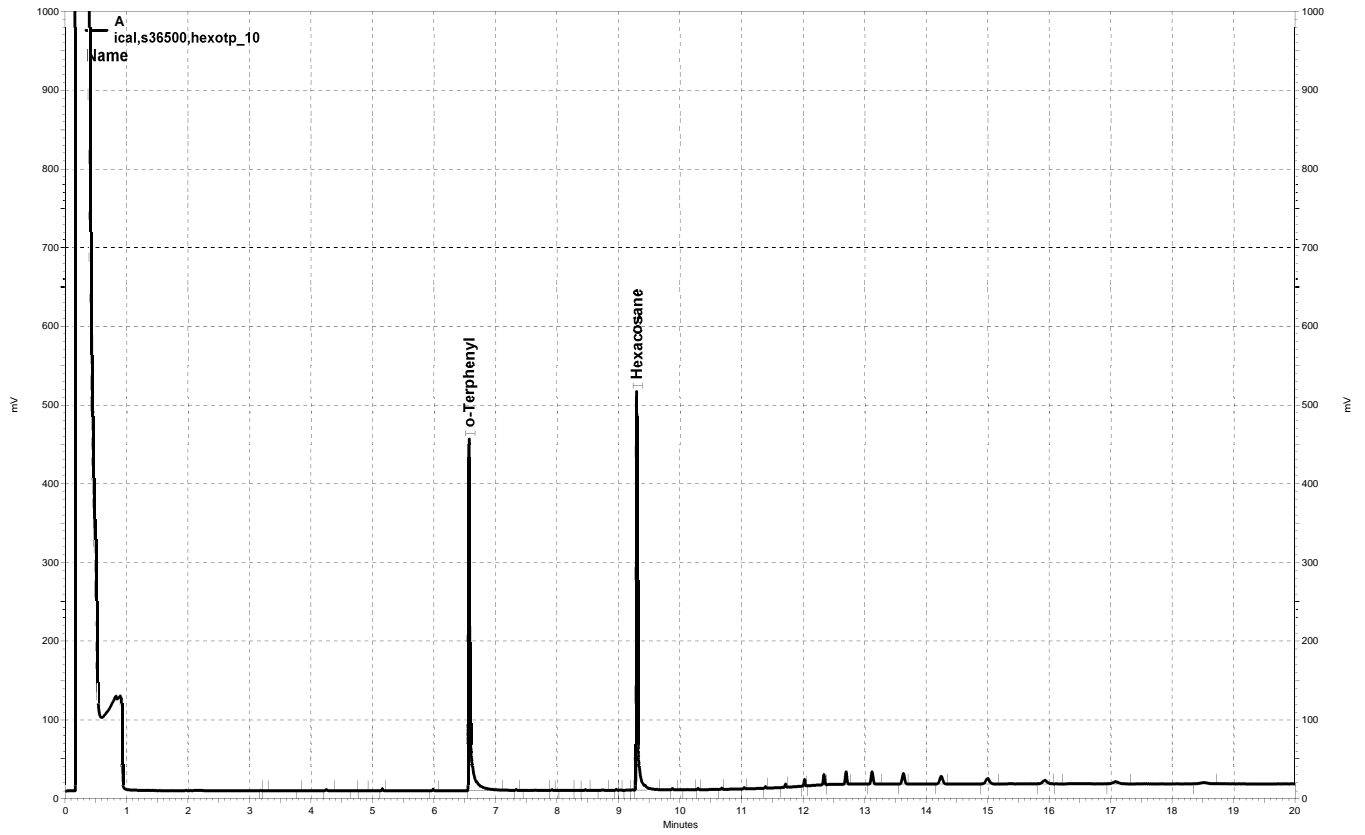
No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



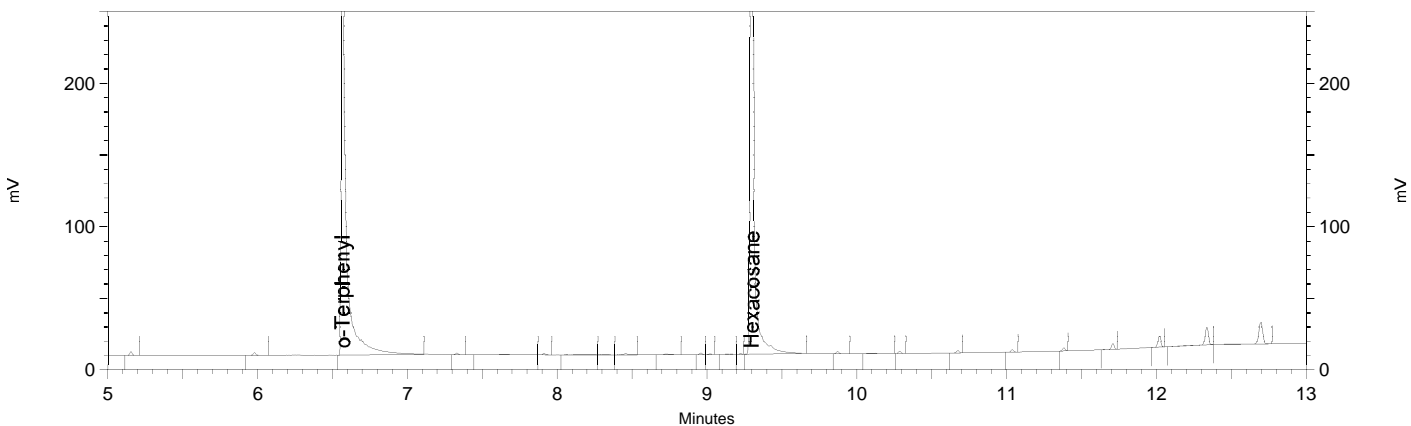
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a017, A

Sample Name: ical,s36500,hexotp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/3/2018 7:58:25 PM
 Analysis Date: 7/5/2018 10:53:27 AM
 Instrument: GC17A Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.568	793990	10.000 CAL
Hexacosane	9.295	731703	10.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a017

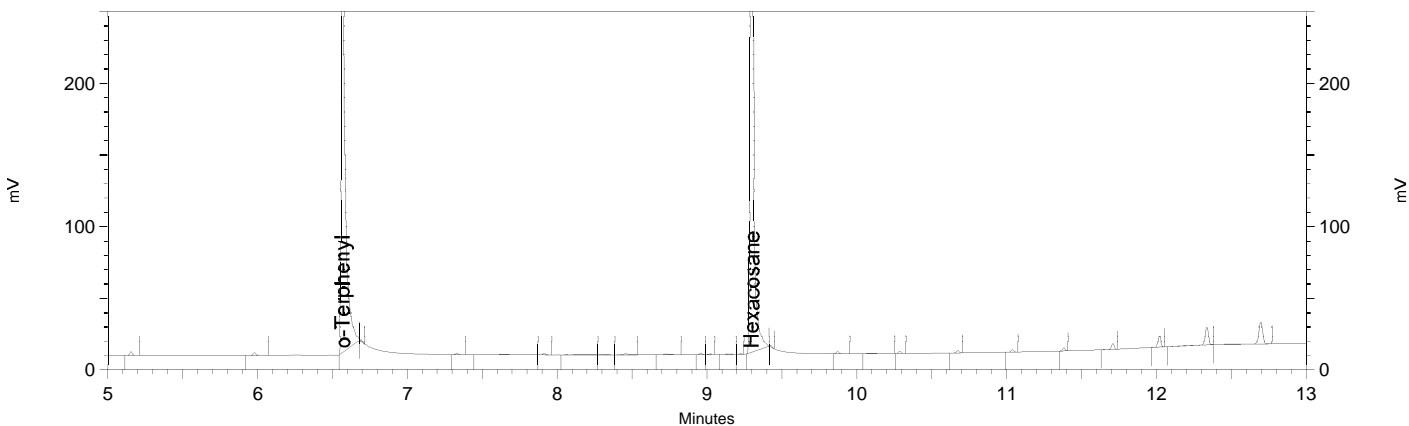
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.513	7.115	0
Yes	Manual Peak	9.247	9.674	0

Sample Name: ical,s36500,hexotp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/3/2018 7:58:25 PM
 Analysis Date: 7/5/2018 10:21:20 AM
 Instrument: GC17A Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.568	683938	25.000 CAL
Hexacosane	9.295	682571	25.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

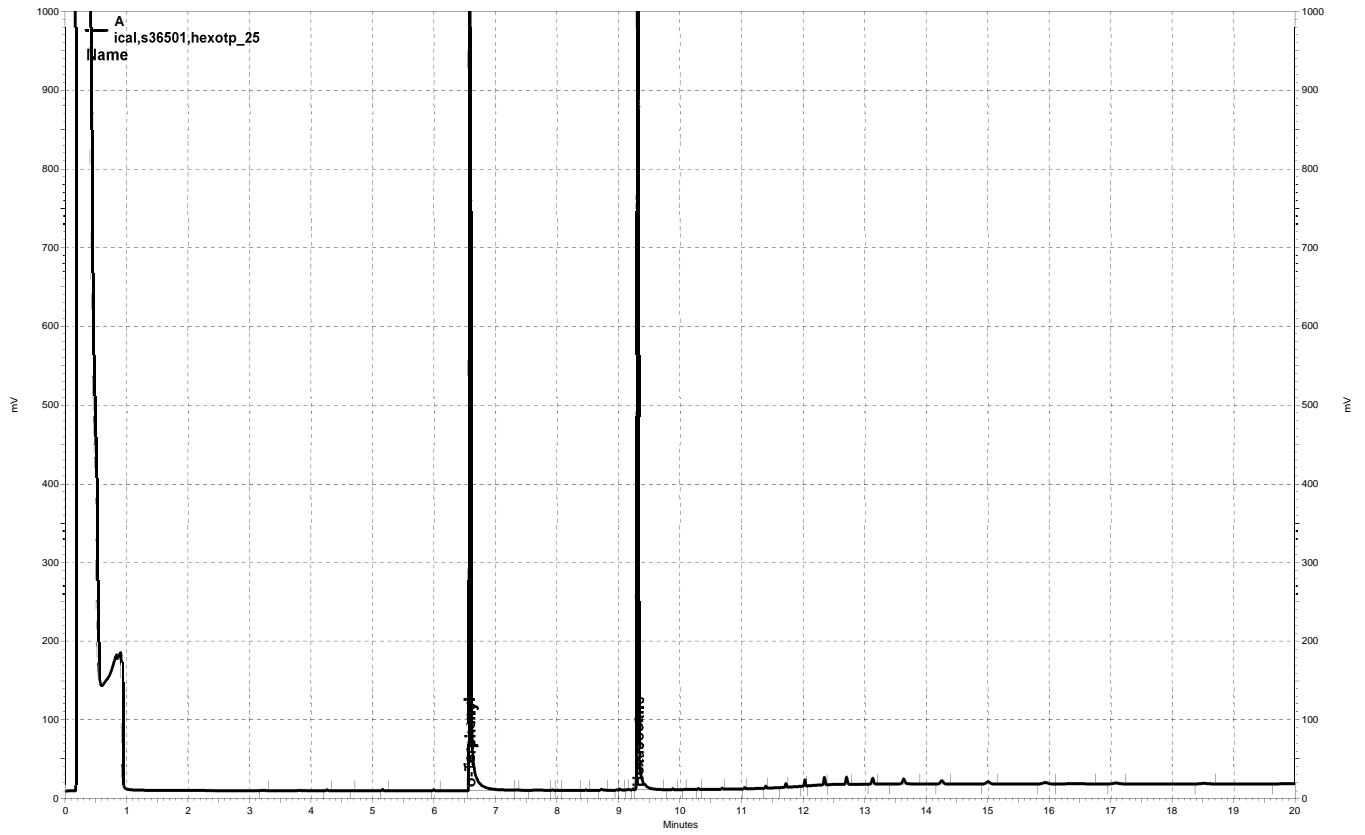
No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



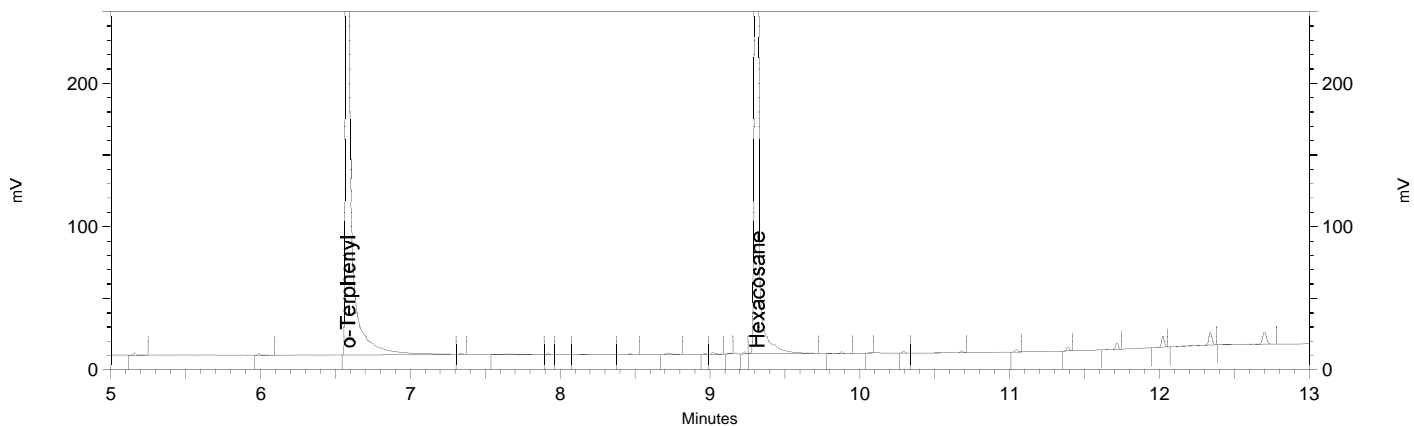
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a018, A

Sample Name: ical,s36501,hexotp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/3/2018 8:26:01 PM
 Analysis Date: 7/5/2018 10:53:32 AM
 Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.583	2011481	25.000 CAL
Hexacosane	9.315	1834549	25.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a018

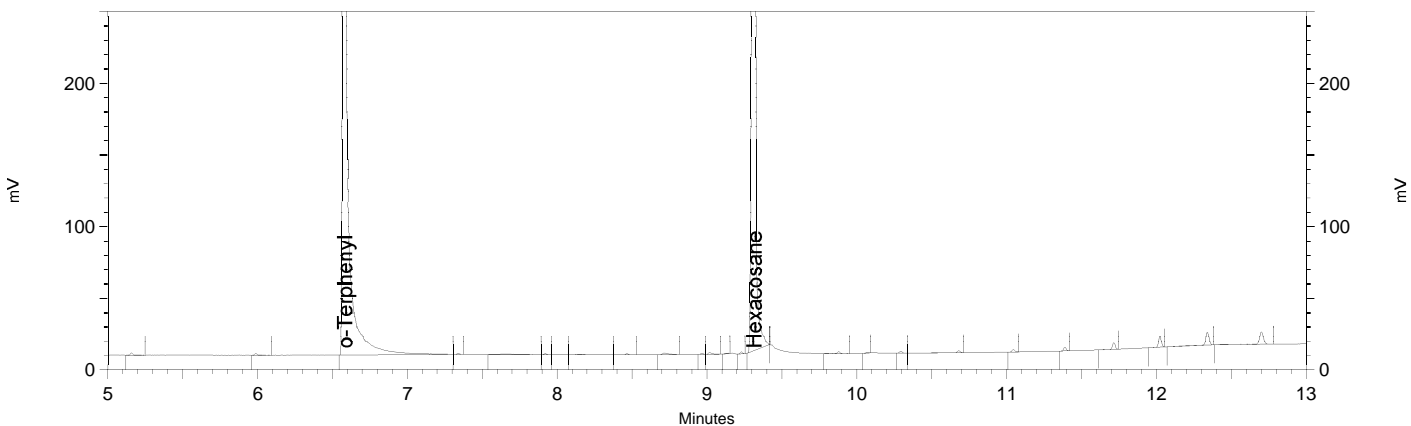
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	9.254	9.738	0

Sample Name: ical,s36501,hexotp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/3/2018 8:26:01 PM
 Analysis Date: 7/5/2018 10:21:45 AM
 Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.583	2011481	50.000 CAL
Hexacosane	9.315	1777460	50.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

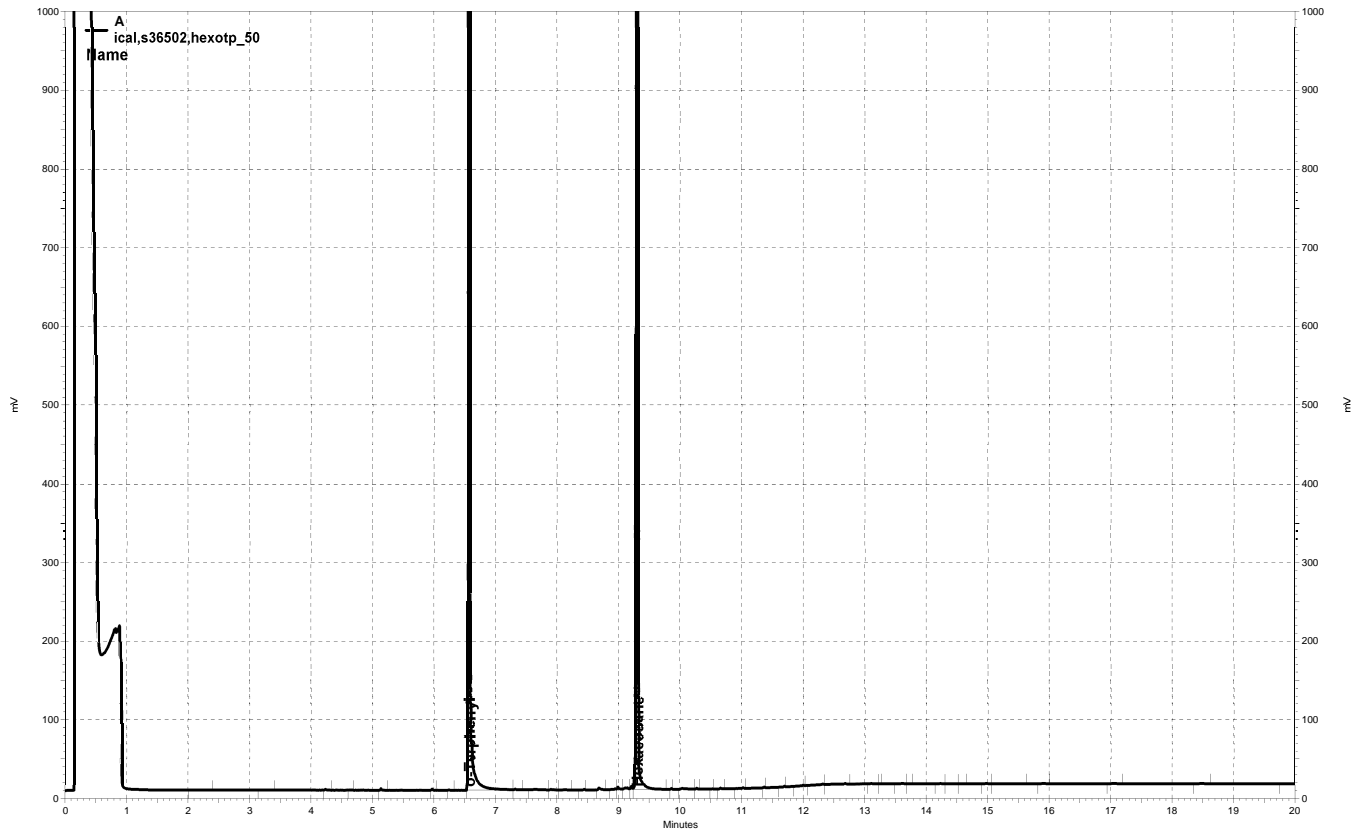
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



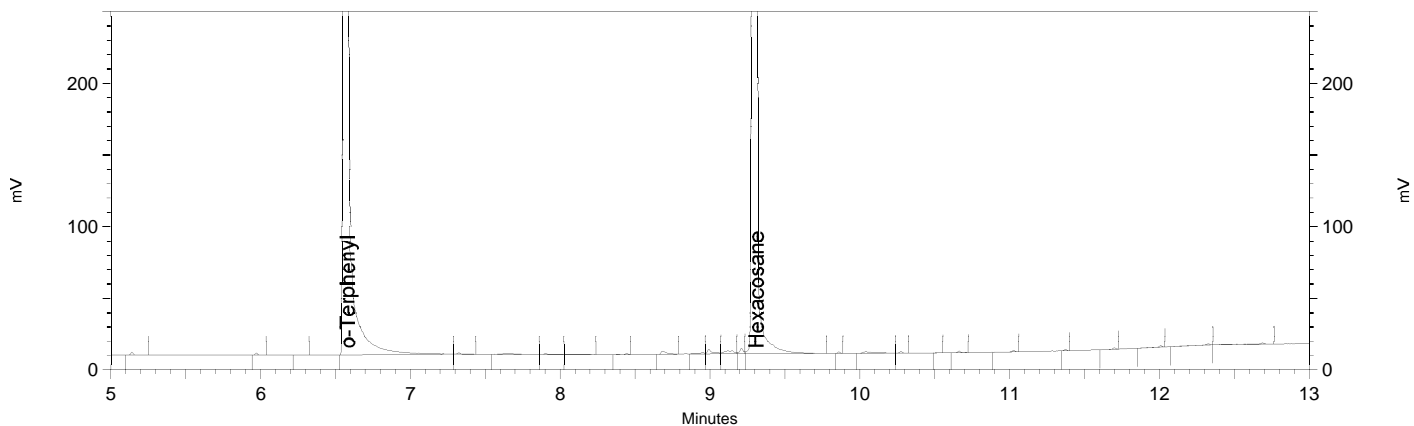
— \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a019, A

Sample Name: ical,s36502,hexotp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/3/2018 8:53:36 PM
 Analysis Date: 7/5/2018 10:53:36 AM
 Instrument: GC17A Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.580	3973330	50.000 CAL
Hexacosane	9.308	3687601	50.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a019

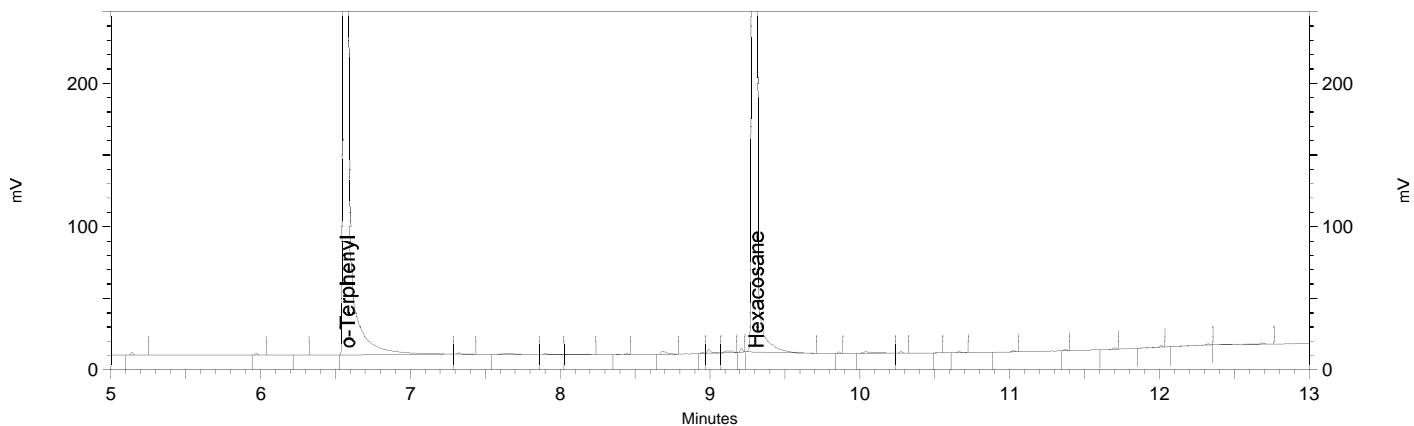
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	8.859	9.776	0

Sample Name: ical,s36502,hexotp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/3/2018 8:53:36 PM
 Analysis Date: 7/5/2018 10:22:06 AM
 Instrument: GC17A Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.580	3973330	100.000 CAL
Hexacosane	9.308	3667925	100.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

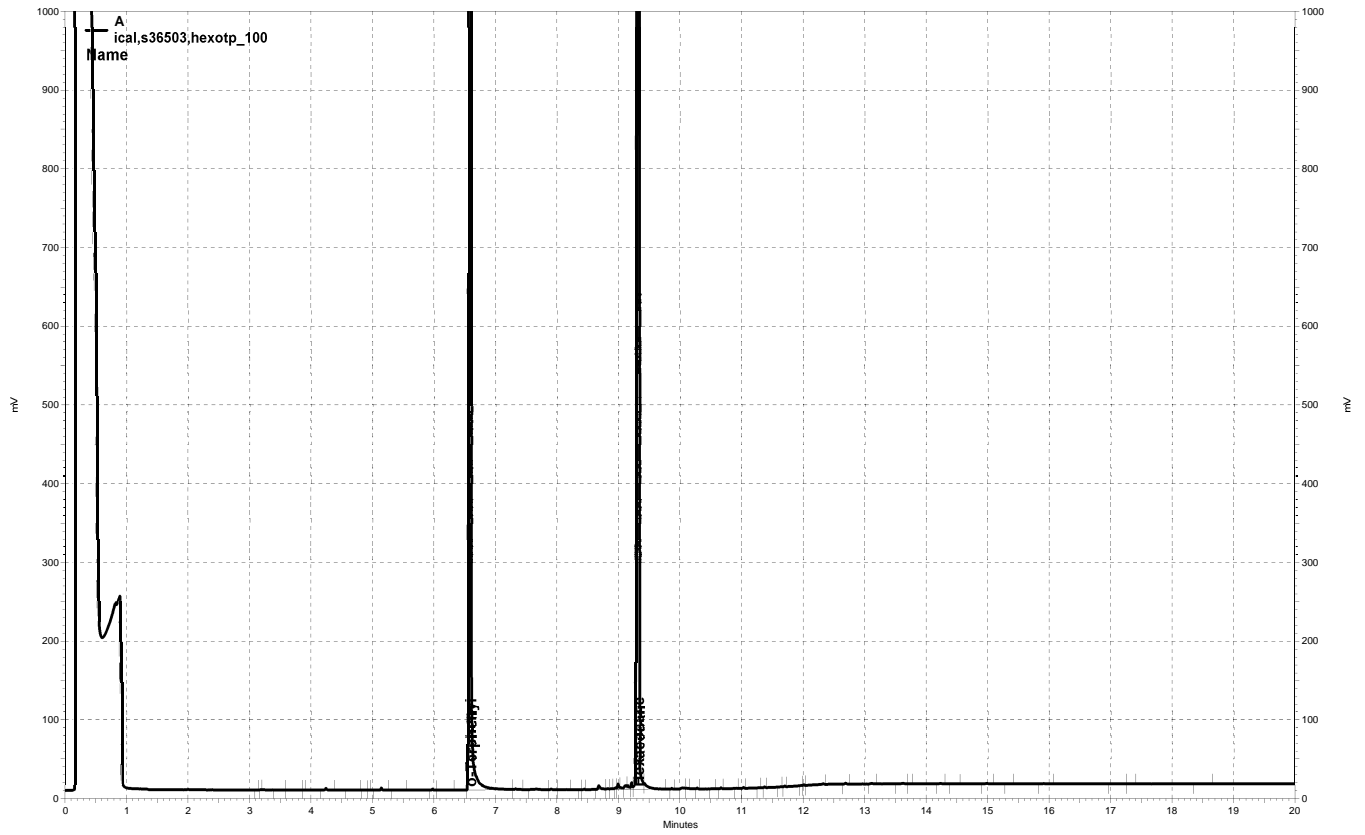
No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a019				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



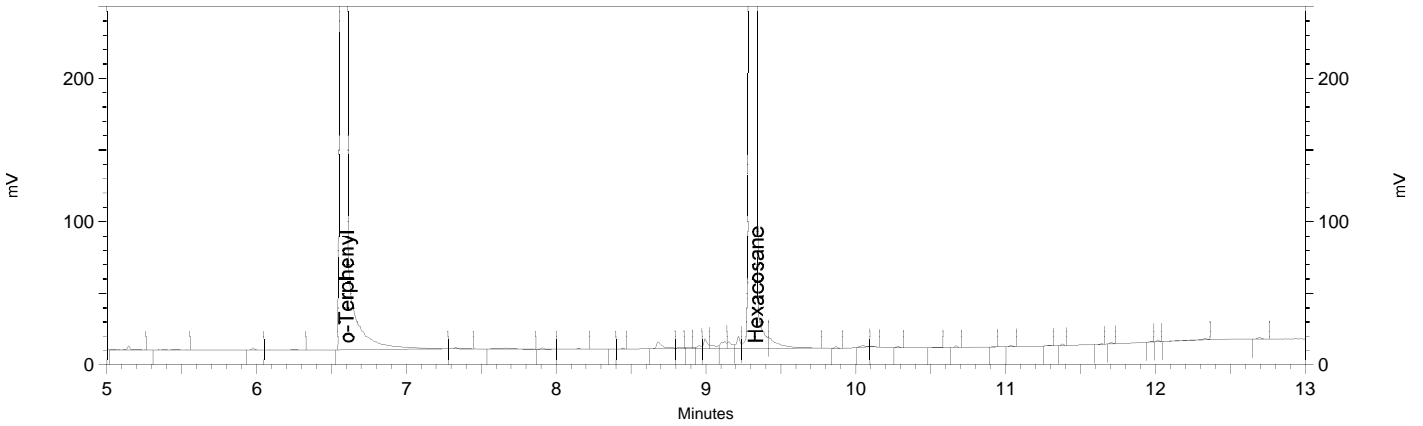
— \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a020, A

Sample Name: ical,s36503,hexotp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/3/2018 9:21:25 PM
 Analysis Date: 7/5/2018 10:53:40 AM
 Instrument: GC17A Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.602	7836498	100.000 CAL
Hexacosane	9.332	7074568	100.000 CAL



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a020

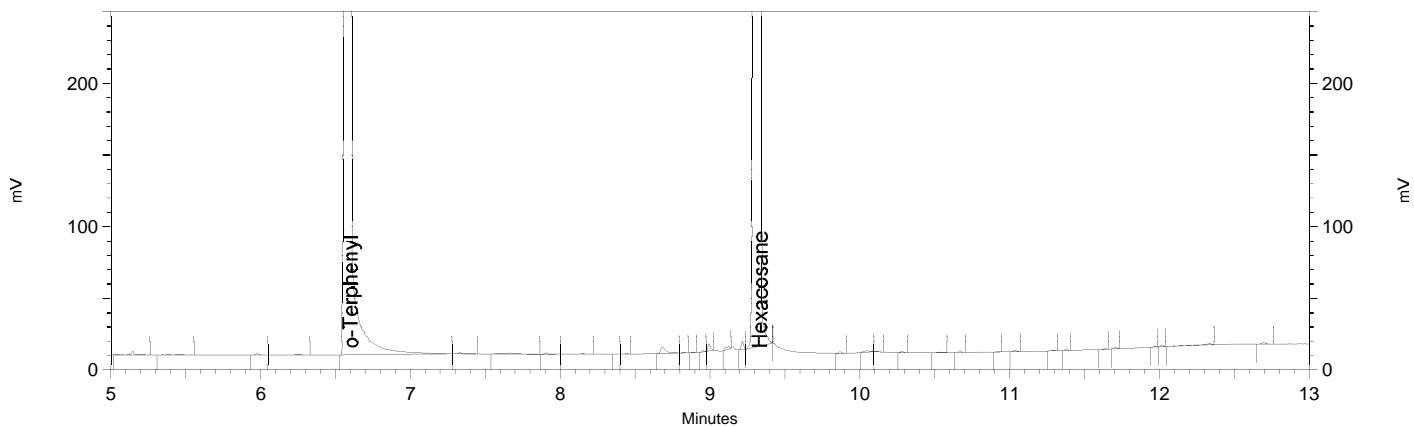
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	8.622	9.767	0

Sample Name: ical,s36503,hexotp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/3/2018 9:21:25 PM
 Analysis Date: 7/5/2018 10:22:29 AM
 Instrument: GC17A Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.602	7836498	200.000 CAL
Hexacosane	9.332	7020840	200.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY INITIAL CALIBRATION FOR 301314 GCSV Water: EPA 8015B

Inst : GC17A
 Calnum : 178265382002
 Units : mg/L

Name : DSL_184
 Date : 03-JUL-2018 22:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a022	178265382022	DSL_10	03-JUL-2018 22:17	S36610
L2	184a023	178265382023	DSL_100	03-JUL-2018 22:45	S36611
L3	184a024	178265382024	DSL_500	03-JUL-2018 23:13	S36613
L4	184a025	178265382025	DSL_1000	03-JUL-2018 23:40	S36615
L5	184a026	178265382026	DSL_5000	04-JUL-2018 00:08	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	60168	65483	66739	66422	64707	AVRG		1.55E-5		64704	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-7	100.00	1	500.00	3	1000.0	3	5000.0	0

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 178265382002

Name : DSL_184
Cal Date : 03-JUL-2018

ICV 178265382028 (184a028 04-JUL-2018) stds: S35844

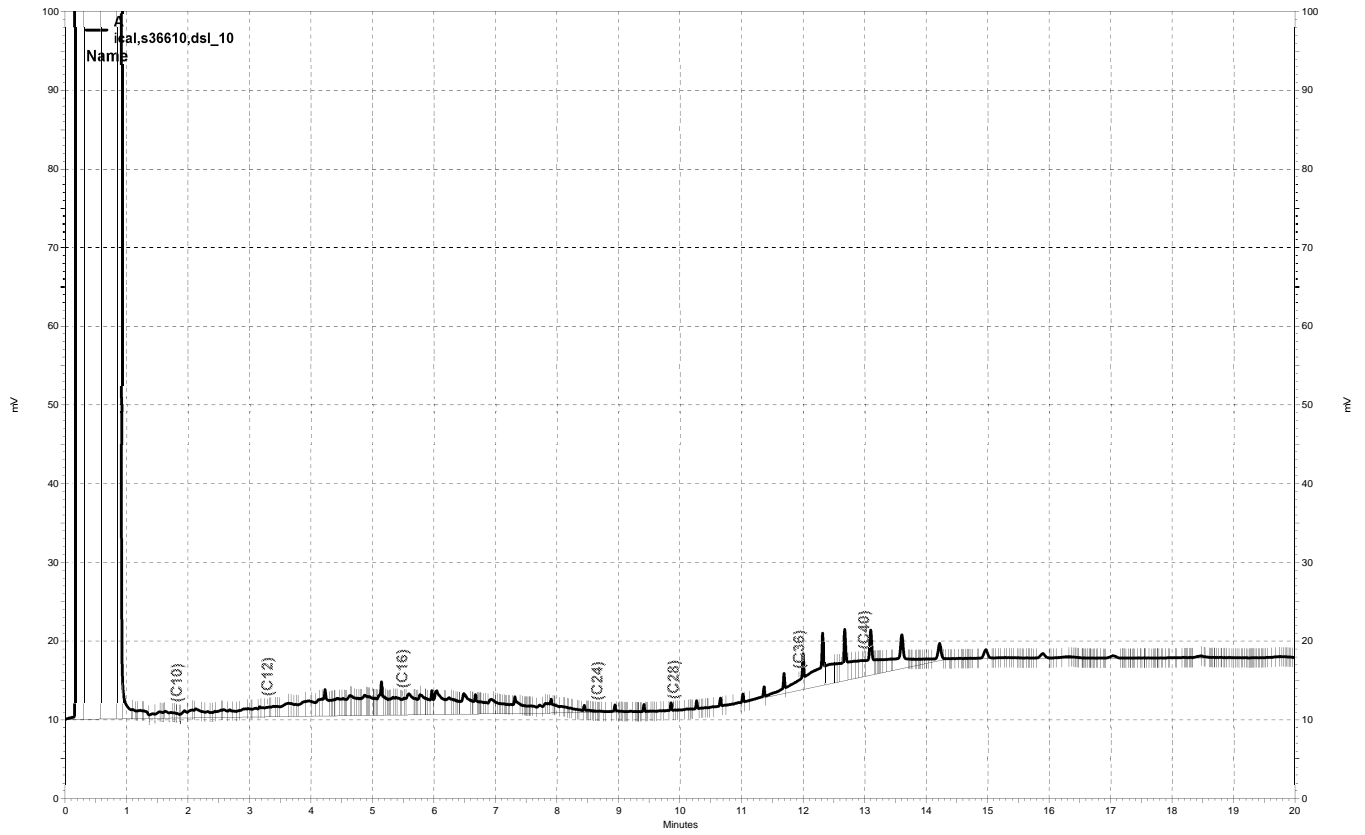
Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	460.5	mg/L	-8	15	

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a022, A

Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a022
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/3/2018 10:17:10 PM
 Analysis Date: 7/5/2018 10:28:14 AM
 Instrument: GC17A Vial: 22 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	349625	0.000 CAL
DSL:10-22	586823	10.000 CAL
DSL:10-24	601680	10.000 CAL
DSL:10-28	608916	10.000 CAL
DSL:12-24	528441	10.000 CAL
DSL:12-28	535677	10.000 CAL
DSL:16-24	262720	10.000 CAL
MO:22-32	37321	0.000 CAL
MO:24-36	52619	0.000 CAL
MO:28-40	189164	0.000 CAL
BUNKC:10-40	796618	0.000 CAL
BUNKC:12-40	723379	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

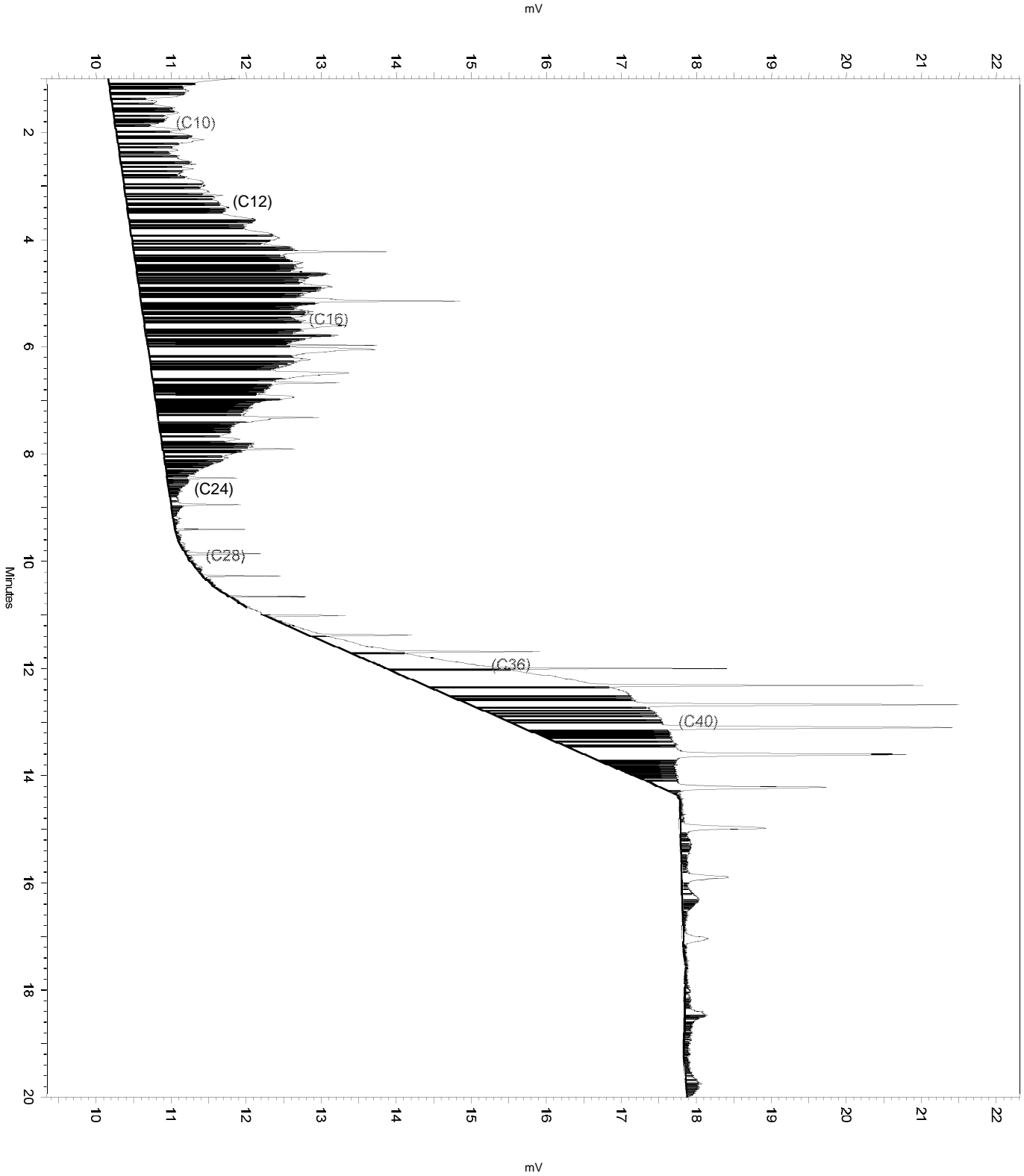
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a022
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Start       9.332     -0.12     0
  
```

Sample Name: ical,s36610,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a022
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/3/2018 10:17:10 PM
Analysis Date: 7/5/2018 10:28:14 AM
Instrument: GC17A Vial: 22 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a022
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/3/2018 10:17:10 PM
 Analysis Date: 7/5/2018 10:24:57 AM
 Instrument: GC17A Vial: 22 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	108199	0.000 CAL
DSL:10-22	155346	10.000 CAL
DSL:10-24	158131	10.000 CAL
DSL:10-28	163890	10.000 CAL
DSL:12-24	138797	10.000 CAL
DSL:12-28	144556	10.000 CAL
DSL:16-24	51409	10.000 CAL
MO:22-32	17537	0.000 CAL
MO:24-36	50030	0.000 CAL
MO:28-40	189164	0.000 CAL
BUNKC:10-40	351592	0.000 CAL
BUNKC:12-40	332258	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

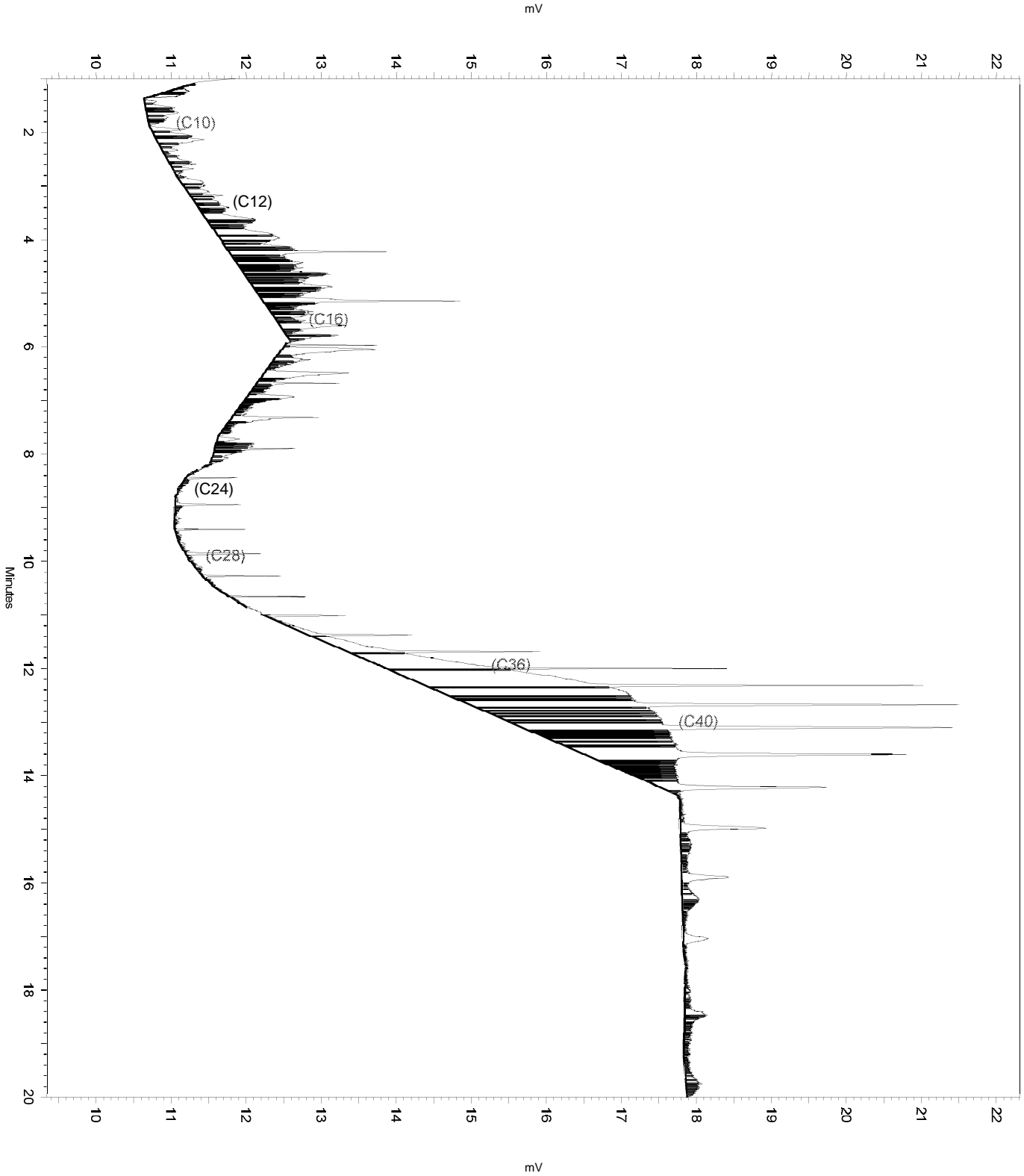
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a022
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

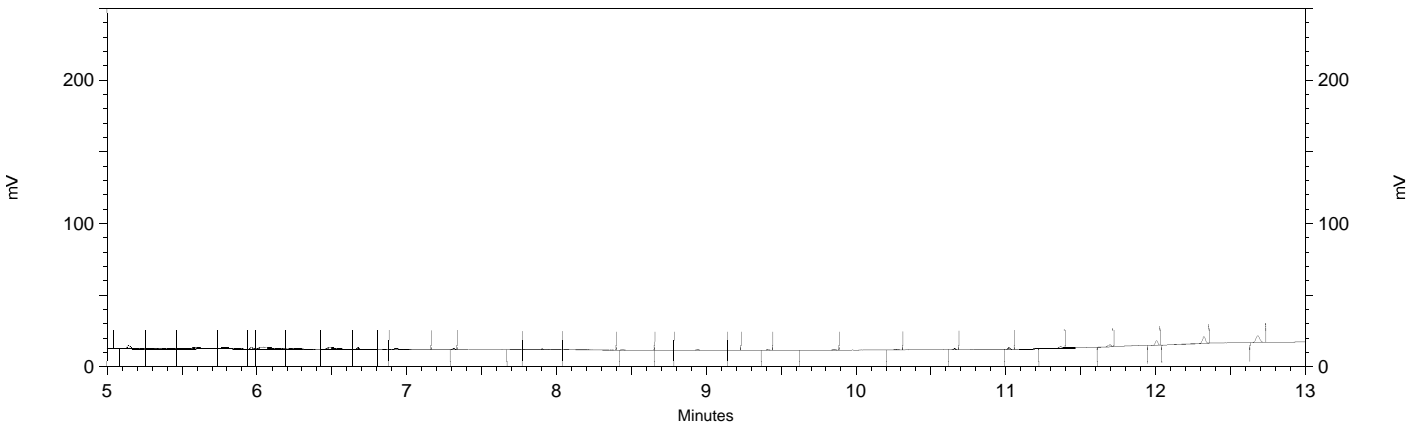
Sample Name: ical,s36610,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a022
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/3/2018 10:17:10 PM
Analysis Date: 7/5/2018 10:24:57 AM
Instrument: GC17A Vial: 22 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a022
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/3/2018 10:17:10 PM
 Analysis Date: 7/3/2018 10:37:19 PM
 Instrument: GC17A Vial: 22 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```
=====
```

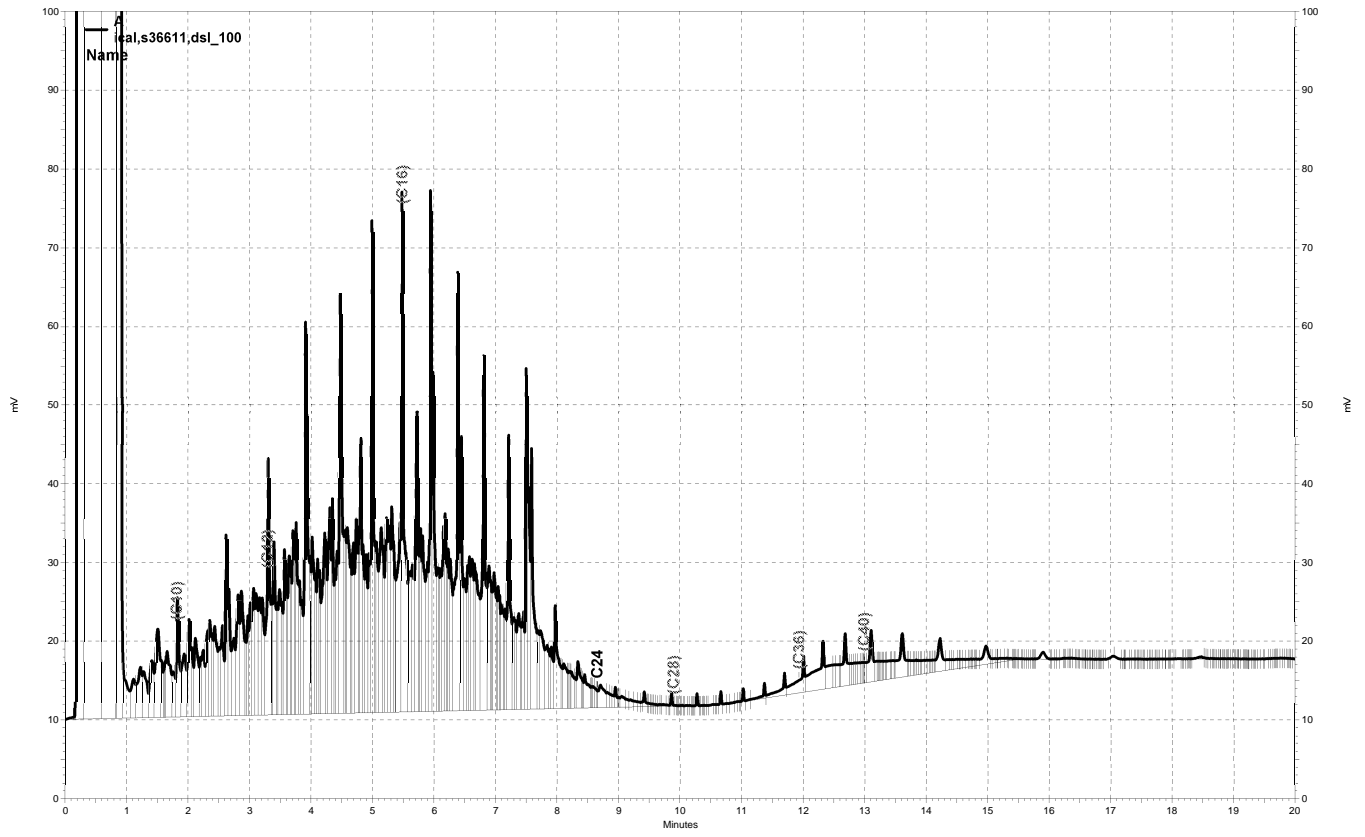
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a022_F3F0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a023, A

Sample Name: ical,s36611,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a023
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/3/2018 10:45:04 PM
 Analysis Date: 7/5/2018 10:28:19 AM
 Instrument: GC17A Vial: 23 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	3832628	0.000 CAL
DSL:10-22	6390211	100.000 CAL
DSL:10-24	6548313	100.000 CAL
DSL:10-28	6600677	100.000 CAL
DSL:12-24	5617273	100.000 CAL
DSL:12-28	5669637	100.000 CAL
DSL:16-24	2999367	100.000 CAL
MO:22-32	292975	0.000 CAL
MO:24-36	110888	0.000 CAL
MO:28-40	228971	0.000 CAL
BUNKC:10-40	6827206	0.000 CAL
BUNKC:12-40	5896166	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

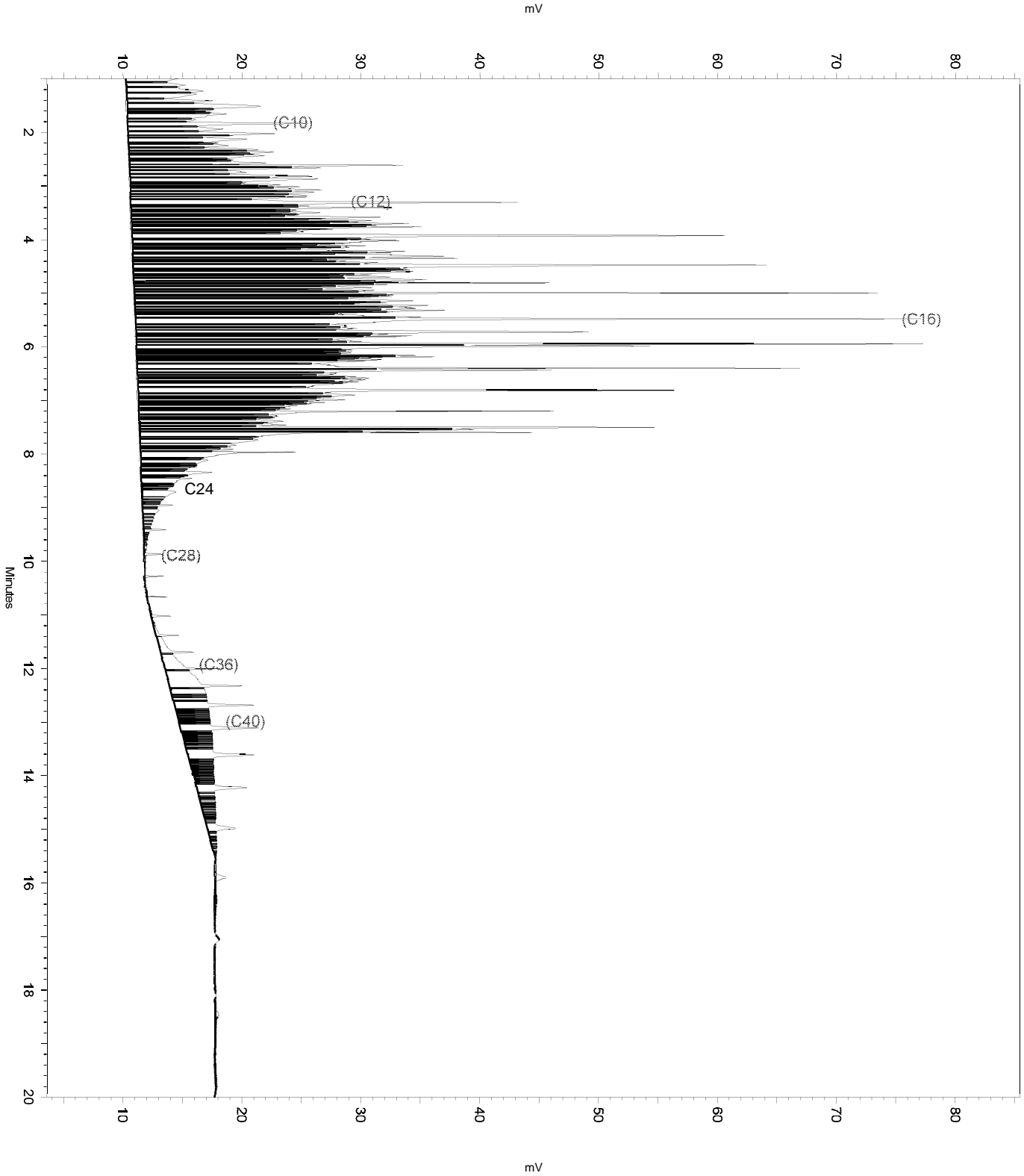
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a023
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Start       1.358     -0.057    0
  
```

Sample Name: ical,s36611,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a023
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/3/2018 10:45:04 PM
Analysis Date: 7/5/2018 10:28:19 AM
Instrument: GC17A Vial: 23 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36611,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a023
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/3/2018 10:45:04 PM
 Analysis Date: 7/5/2018 10:25:48 AM
 Instrument: GC17A Vial: 23 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	3318782	0.000 CAL
DSL:10-22	5709497	100.000 CAL
DSL:10-24	5843527	100.000 CAL
DSL:10-28	5881208	100.000 CAL
DSL:12-24	5152104	100.000 CAL
DSL:12-28	5189785	100.000 CAL
DSL:16-24	2789974	100.000 CAL
MO:22-32	246947	0.000 CAL
MO:24-36	90250	0.000 CAL
MO:28-40	228715	0.000 CAL
BUNKC:10-40	6107737	0.000 CAL
BUNKC:12-40	5416314	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

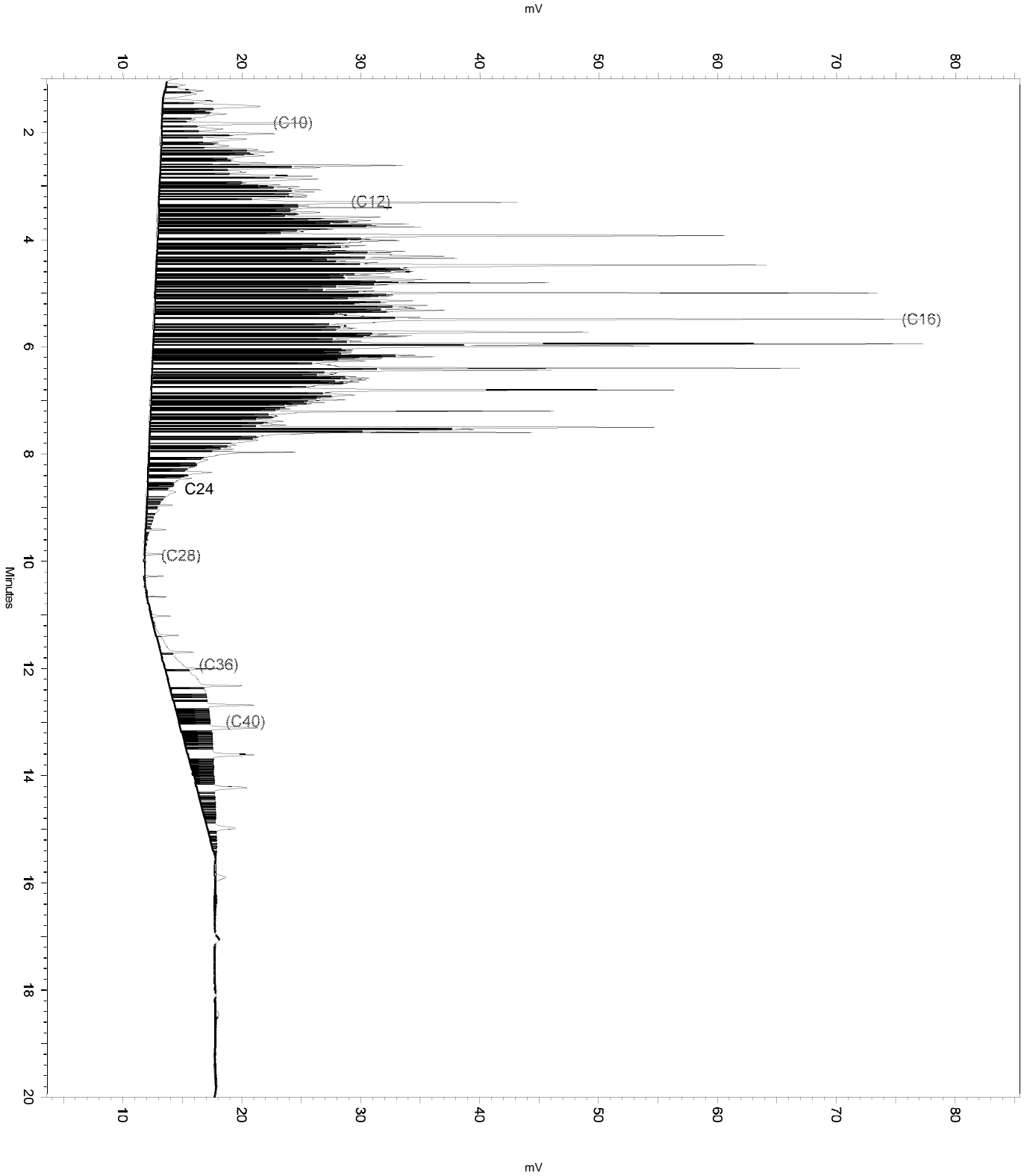
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

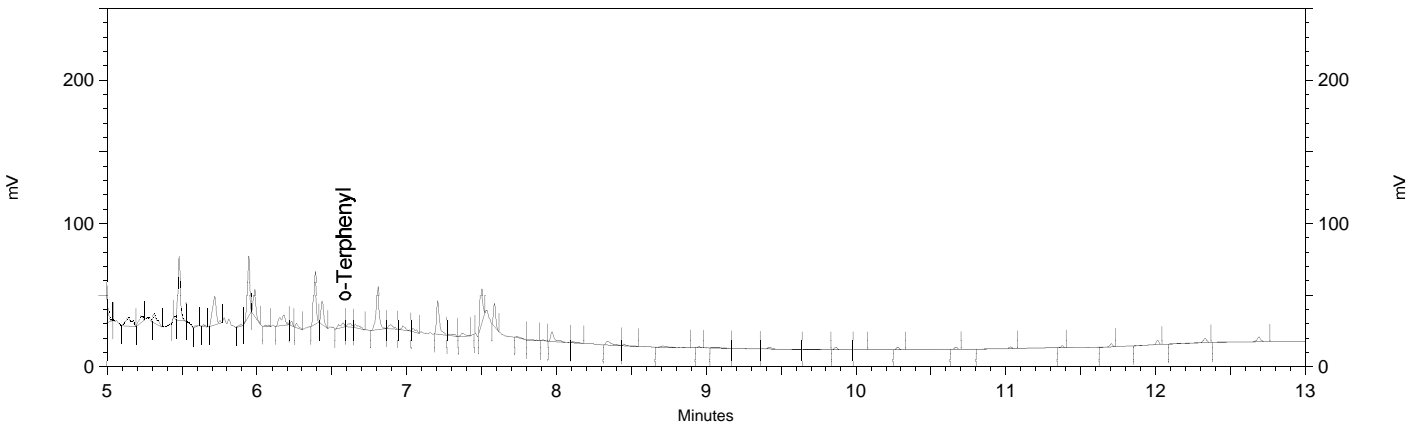
Sample Name: ical,s36611,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a023
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/3/2018 10:45:04 PM
Analysis Date: 7/5/2018 10:25:48 AM
Instrument: GC17A Vial: 23 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36611,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a023
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/3/2018 10:45:04 PM
 Analysis Date: 7/3/2018 11:05:13 PM
 Instrument: GC17A Vial: 23 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.578	6763	0.078
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

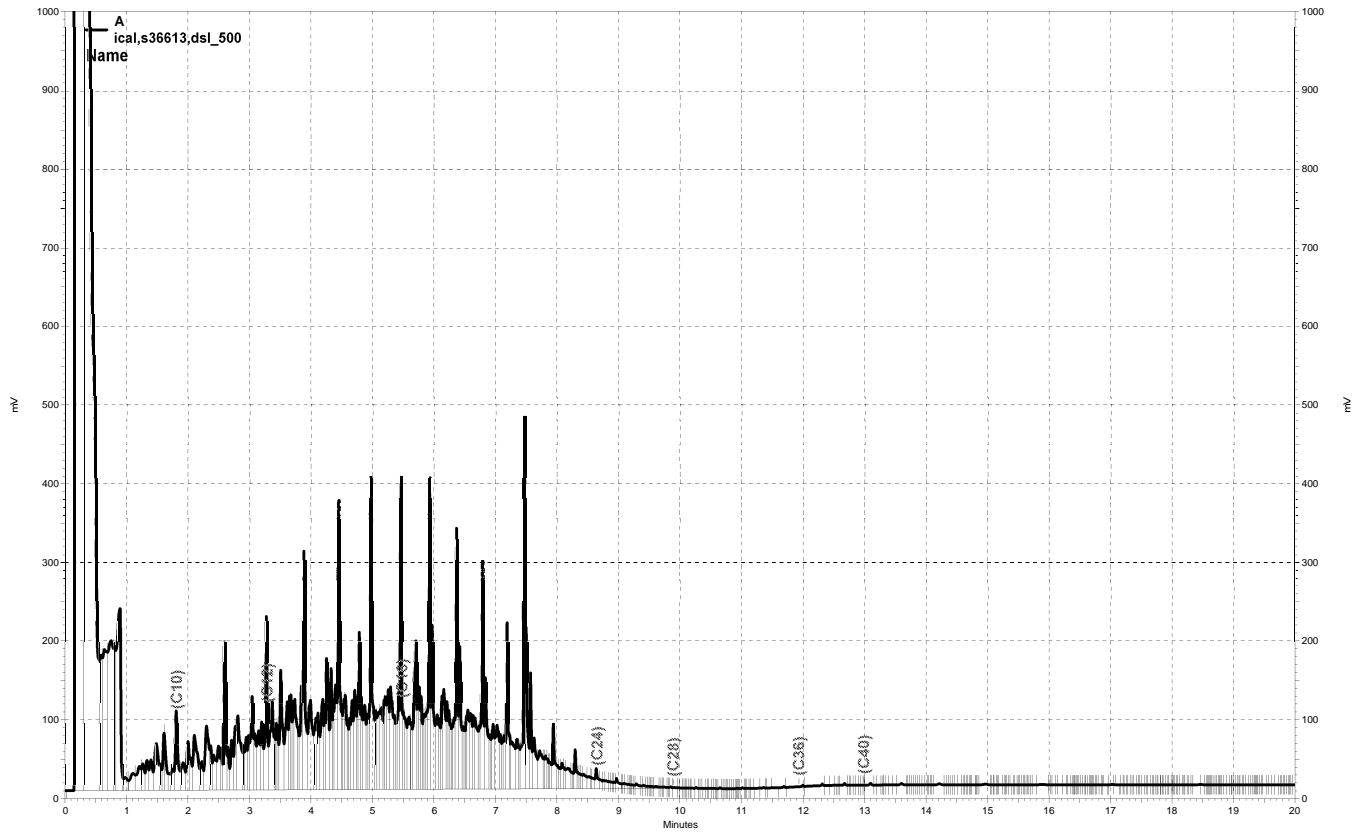
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a023_F3F1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a024, A

Sample Name: ical,s36613,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a024
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/3/2018 11:13:02 PM
 Analysis Date: 7/5/2018 10:28:24 AM
 Instrument: GC17A Vial: 24 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	19605182	0.000 CAL
DSL:10-22	32577612	500.000 CAL
DSL:10-24	33369566	500.000 CAL
DSL:10-28	33679948	500.000 CAL
DSL:12-24	28501726	500.000 CAL
DSL:12-28	28812100	500.000 CAL
DSL:16-24	14990772	500.000 CAL
MO:22-32	1480762	0.000 CAL
MO:24-36	430086	0.000 CAL
MO:28-40	44414	0.000 CAL
BUNKC:10-40	33716204	0.000 CAL
BUNKC:12-40	28848348	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

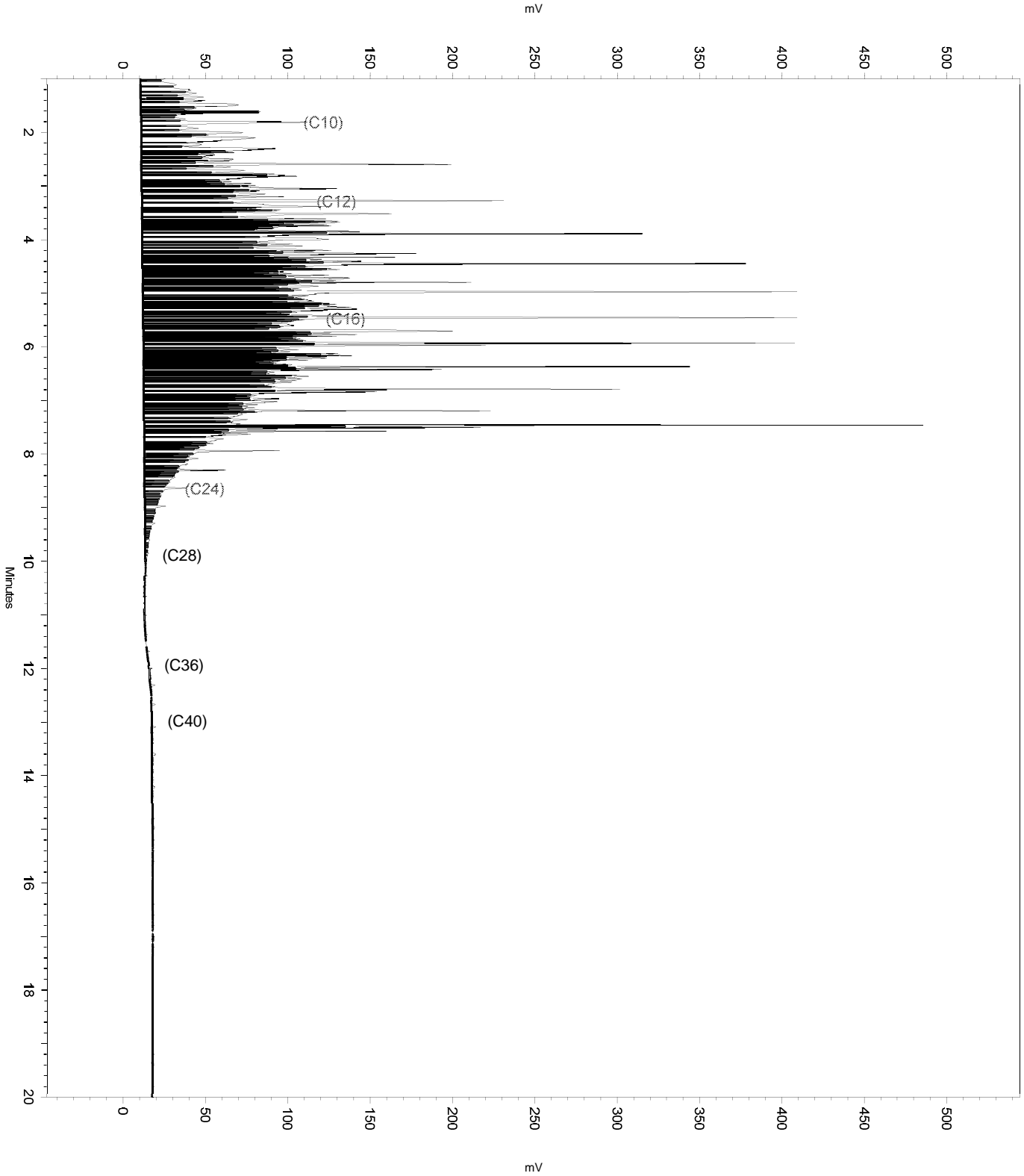
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a024
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Start       10.047     0.028     0
  
```

Sample Name: ical,s36613,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a024
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/3/2018 11:13:02 PM
Analysis Date: 7/5/2018 10:28:24 AM
Instrument: GC17A Vial: 24 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36613,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a024
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/3/2018 11:13:02 PM
 Analysis Date: 7/5/2018 10:26:11 AM
 Instrument: GC17A Vial: 24 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	9202486	0.000 CAL
DSL:10-22	14603918	500.000 CAL
DSL:10-24	14726195	500.000 CAL
DSL:10-28	14764241	500.000 CAL
DSL:12-24	12238893	500.000 CAL
DSL:12-28	12276939	500.000 CAL
DSL:16-24	6023045	500.000 CAL
MO:22-32	270387	0.000 CAL
MO:24-36	78106	0.000 CAL
MO:28-40	36861	0.000 CAL
BUNKC:10-40	14798698	0.000 CAL
BUNKC:12-40	12311396	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

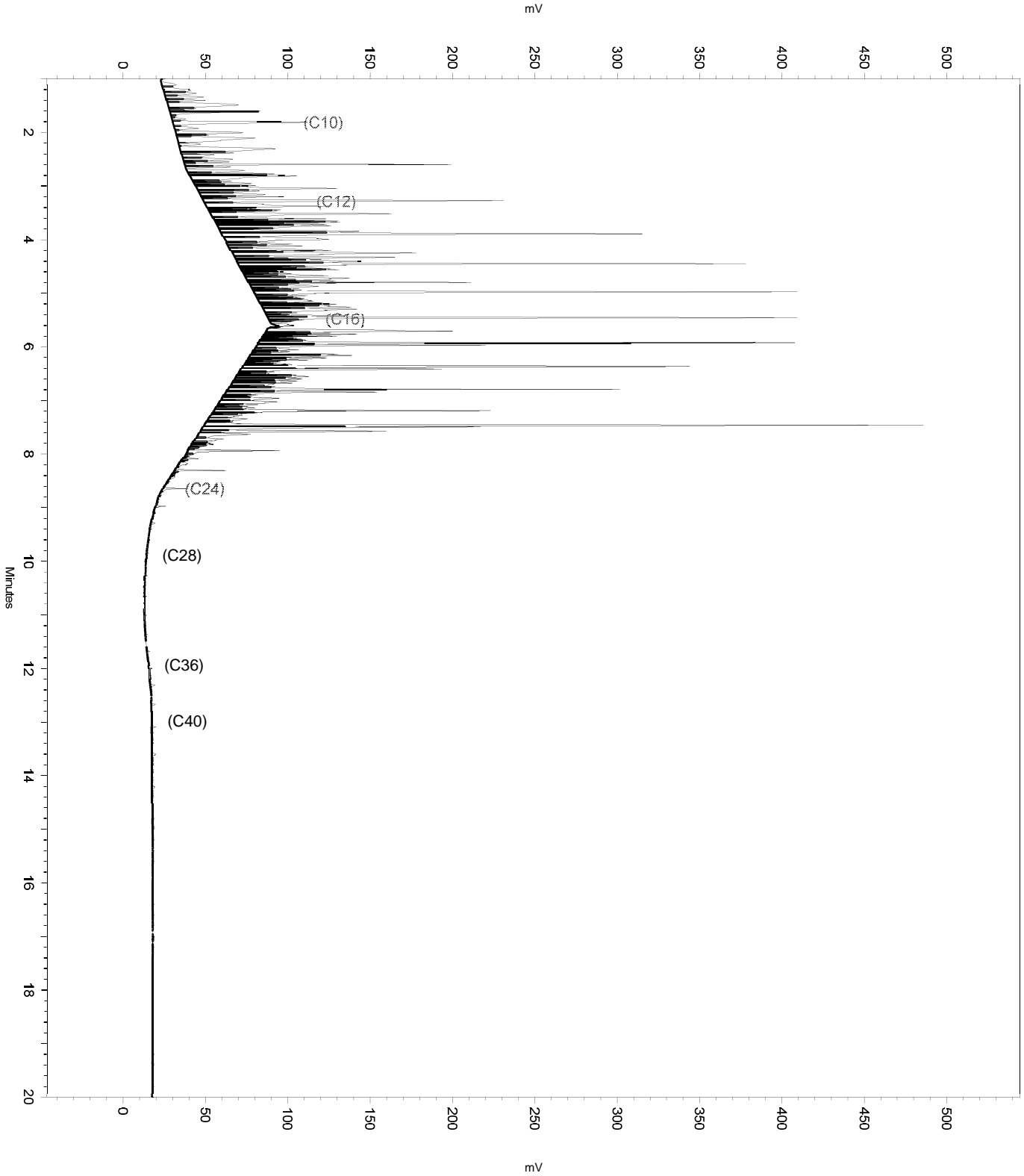
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0          10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a024
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

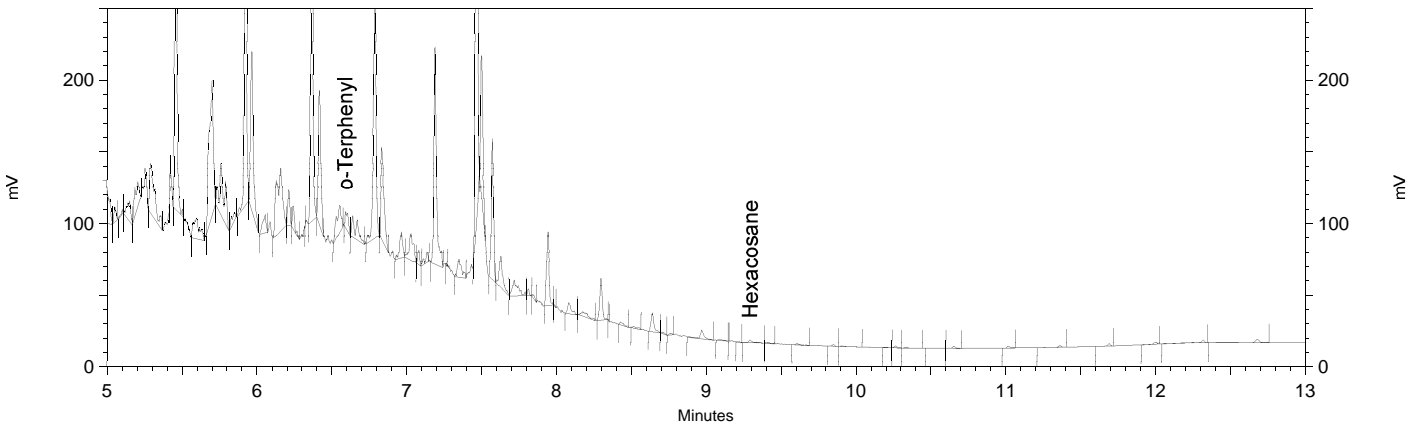
Sample Name: ical,s36613,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a024
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/3/2018 11:13:02 PM
Analysis Date: 7/5/2018 10:26:11 AM
Instrument: GC17A Vial: 24 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36613,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a024
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/3/2018 11:13:02 PM
 Analysis Date: 7/3/2018 11:33:11 PM
 Instrument: GC17A Vial: 24 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.592	18253	0.210
Hexacosane	9.290	5061	0.064



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```
=====
```

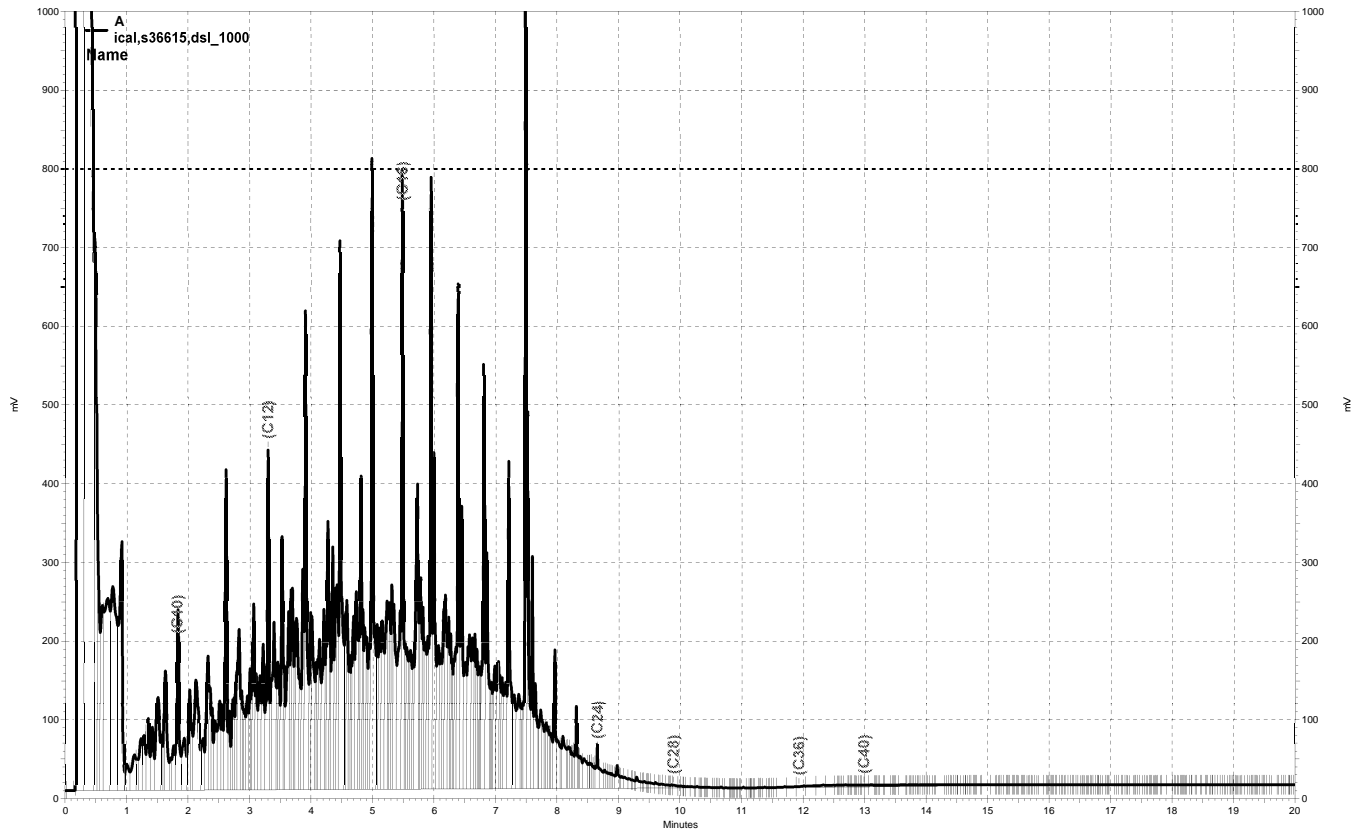
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a024_F3F2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a025, A

Sample Name: ical,s36615,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a025
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/3/2018 11:40:58 PM
 Analysis Date: 7/5/2018 10:28:29 AM
 Instrument: GC17A Vial: 25 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	38875216	0.000 CAL
DSL:10-22	64738600	1000.000 CAL
DSL:10-24	66421796	1000.000 CAL
DSL:10-28	67146912	1000.000 CAL
DSL:12-24	56722436	1000.000 CAL
DSL:12-28	57447552	1000.000 CAL
DSL:16-24	30275304	1000.000 CAL
MO:22-32	3211283	0.000 CAL
MO:24-36	1067497	0.000 CAL
MO:28-40	245192	0.000 CAL
BUNKC:10-40	67365144	0.000 CAL
BUNKC:12-40	57665756	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

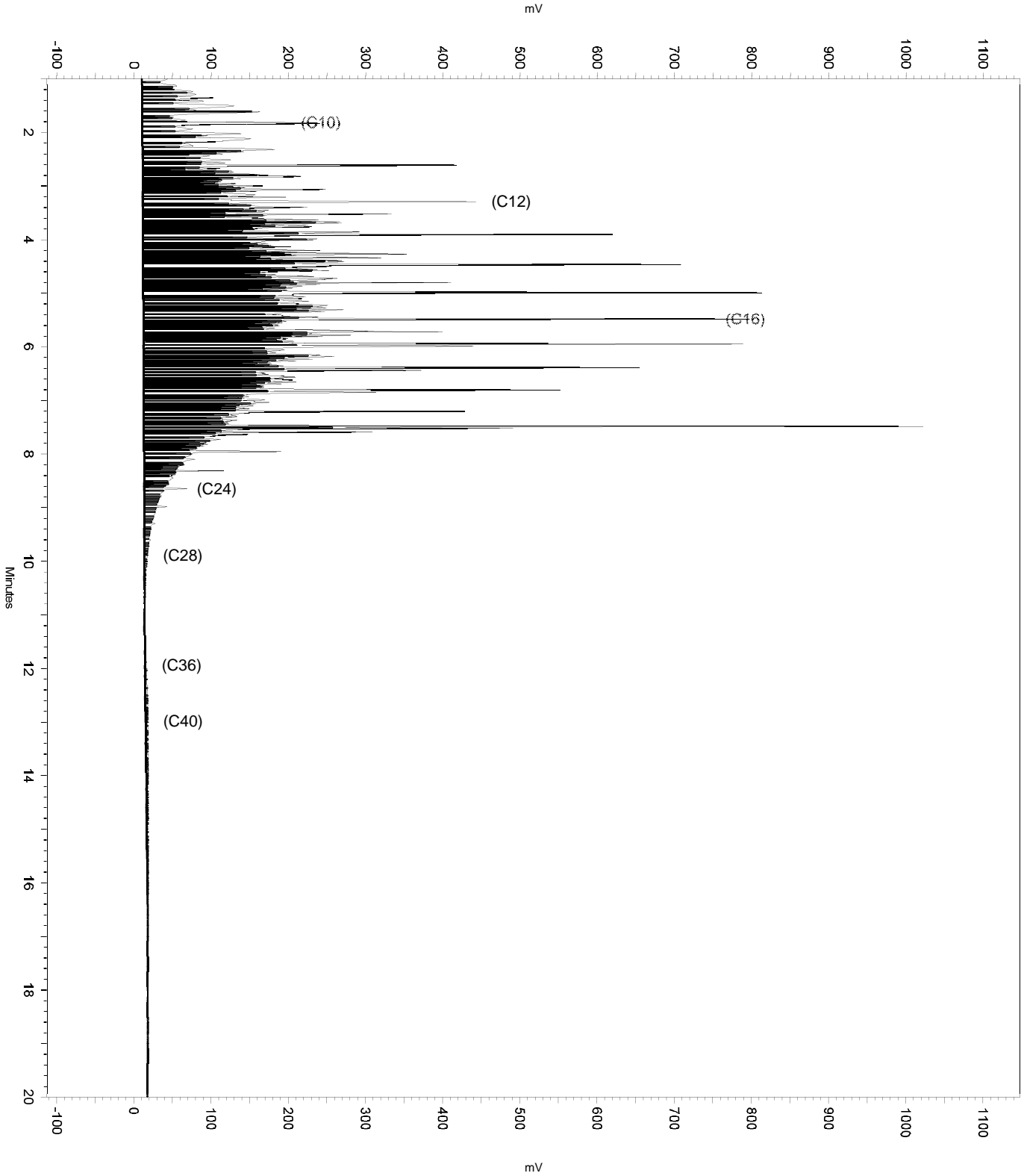
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	0.973	-0.025	0

Sample Name: ical,s36615,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a025
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/3/2018 11:40:58 PM
Analysis Date: 7/5/2018 10:28:29 AM
Instrument: GC17A Vial: 25 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36615,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a025
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/3/2018 11:40:58 PM
 Analysis Date: 7/5/2018 10:26:44 AM
 Instrument: GC17A Vial: 25 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	35088648	0.000 CAL
DSL:10-22	59617984	1000.000 CAL
DSL:10-24	61081456	1000.000 CAL
DSL:10-28	61589964	1000.000 CAL
DSL:12-24	53121280	1000.000 CAL
DSL:12-28	53629788	1000.000 CAL
DSL:16-24	28584588	1000.000 CAL
MO:22-32	2680121	0.000 CAL
MO:24-36	774986	0.000 CAL
MO:28-40	200660	0.000 CAL
BUNKC:10-40	61777812	0.000 CAL
BUNKC:12-40	53817636	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

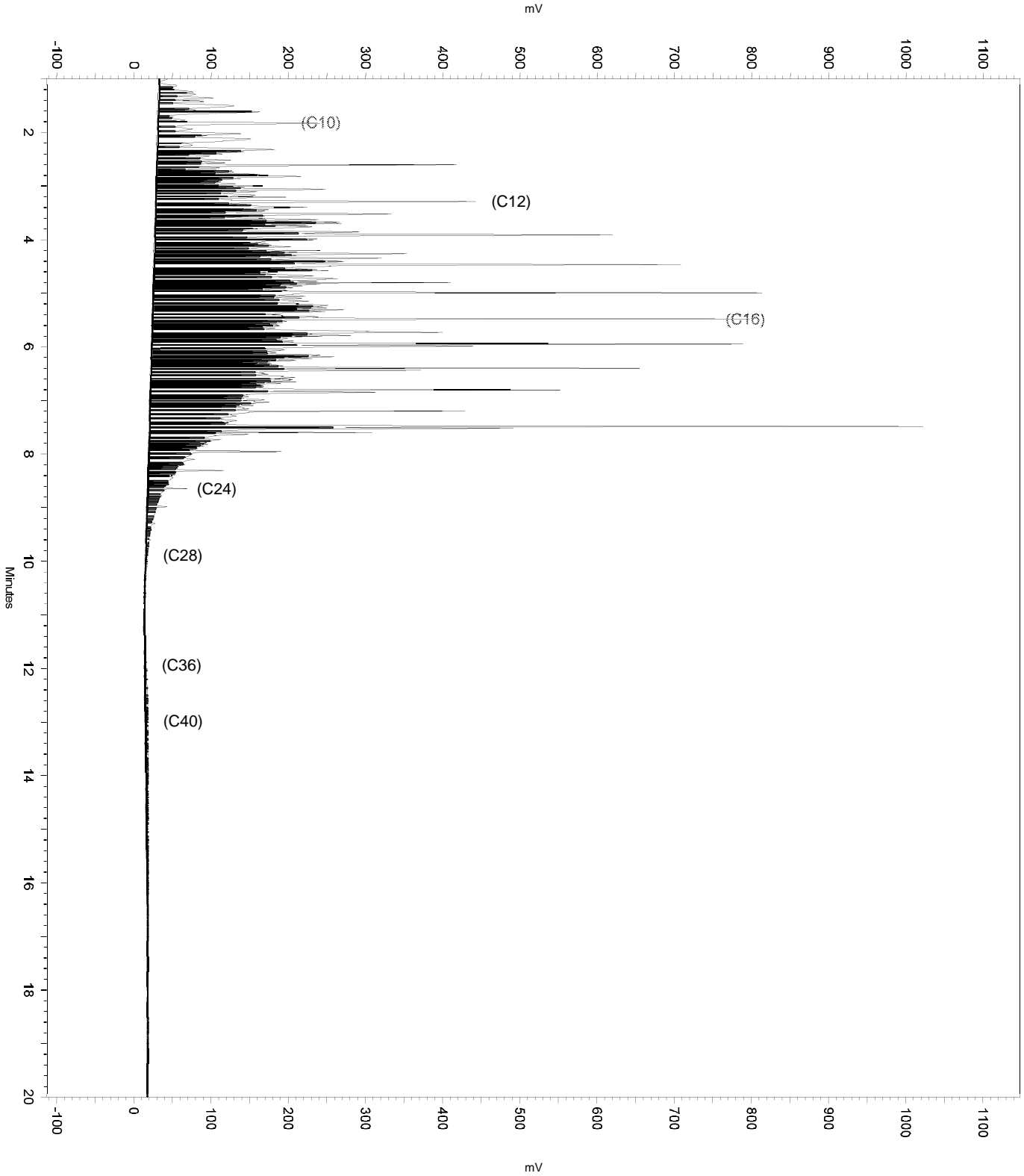
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a025
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

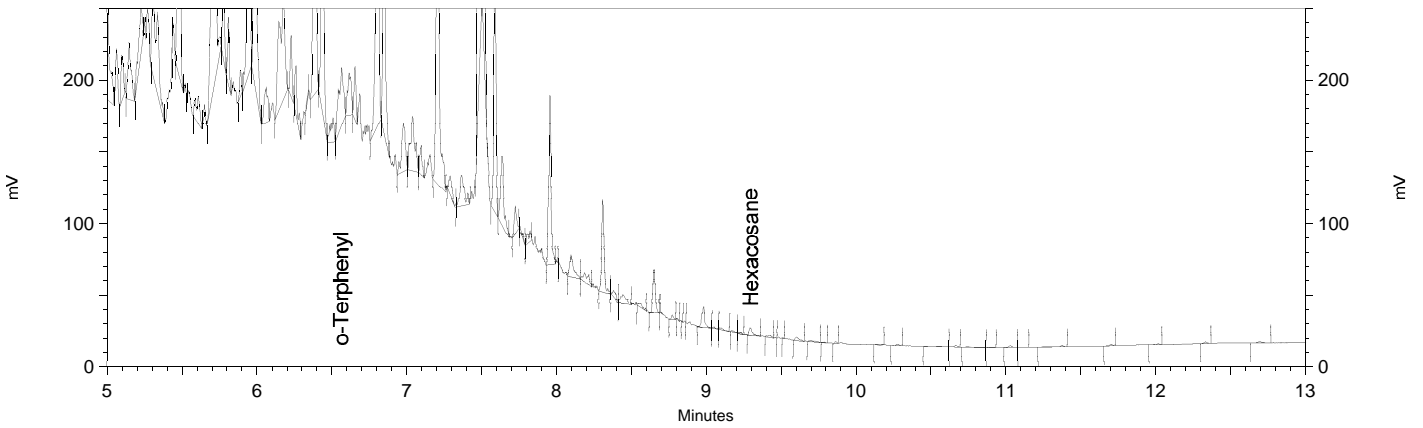
Sample Name: ical,s36615,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a025
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/3/2018 11:40:58 PM
Analysis Date: 7/5/2018 10:26:44 AM
Instrument: GC17A Vial: 25 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36615,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a025
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/3/2018 11:40:58 PM
 Analysis Date: 7/4/2018 12:01:07 AM
 Instrument: GC17A Vial: 25 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.567	90914	1.047
Hexacosane	9.293	8945	0.112



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

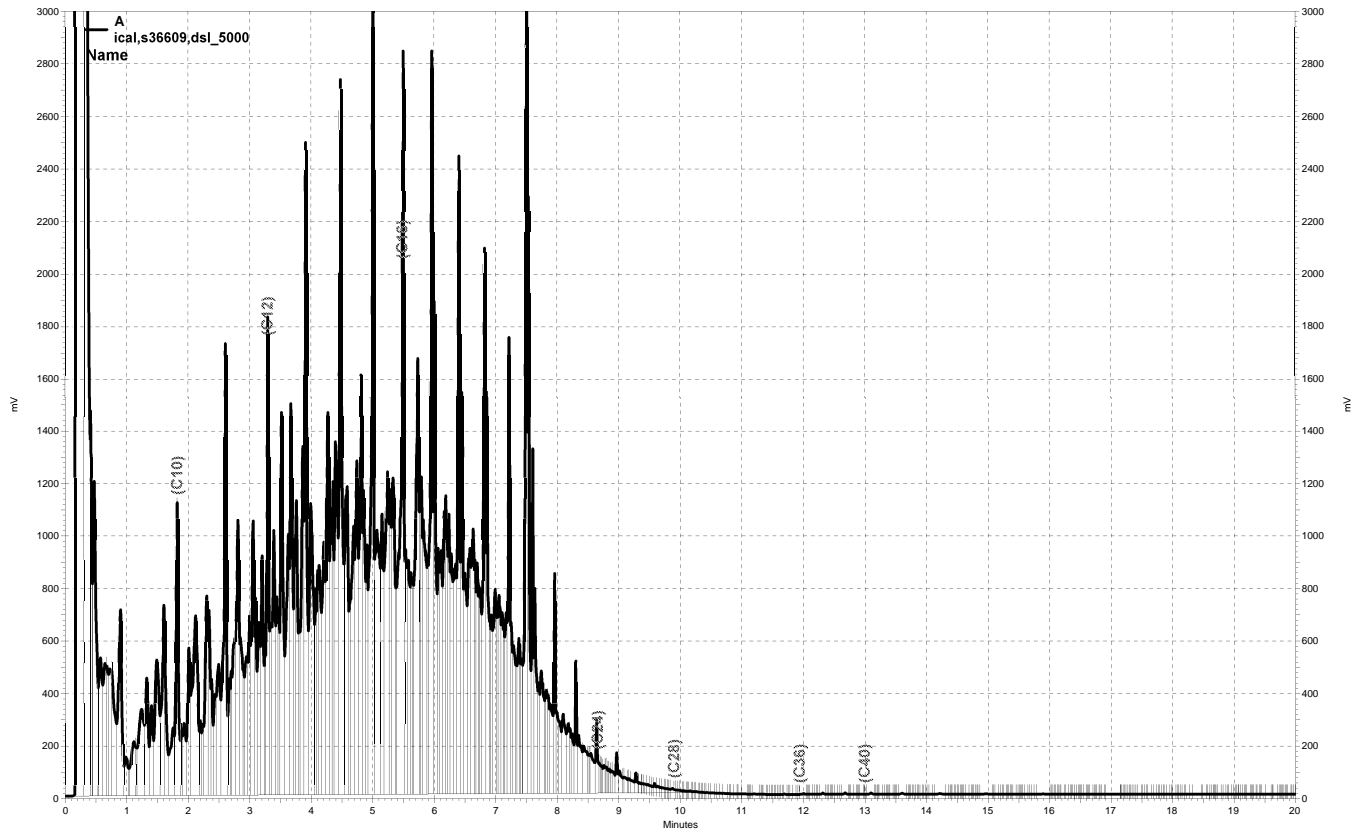
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a025_F3F3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a026, A

Sample Name: ical,s36609,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a026
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 12:08:57 AM
 Analysis Date: 7/5/2018 10:28:34 AM
 Instrument: GC17A Vial: 26 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	188694784	0.000 CAL
DSL:10-22	315902752	5000.000 CAL
DSL:10-24	323534080	5000.000 CAL
DSL:10-28	326819840	5000.000 CAL
DSL:12-24	276203264	5000.000 CAL
DSL:12-28	279489024	5000.000 CAL
DSL:16-24	147039344	5000.000 CAL
MO:22-32	13889619	0.000 CAL
MO:24-36	4429925	0.000 CAL
MO:28-40	298199	0.000 CAL
BUNKC:10-40	327016320	0.000 CAL
BUNKC:12-40	279685504	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

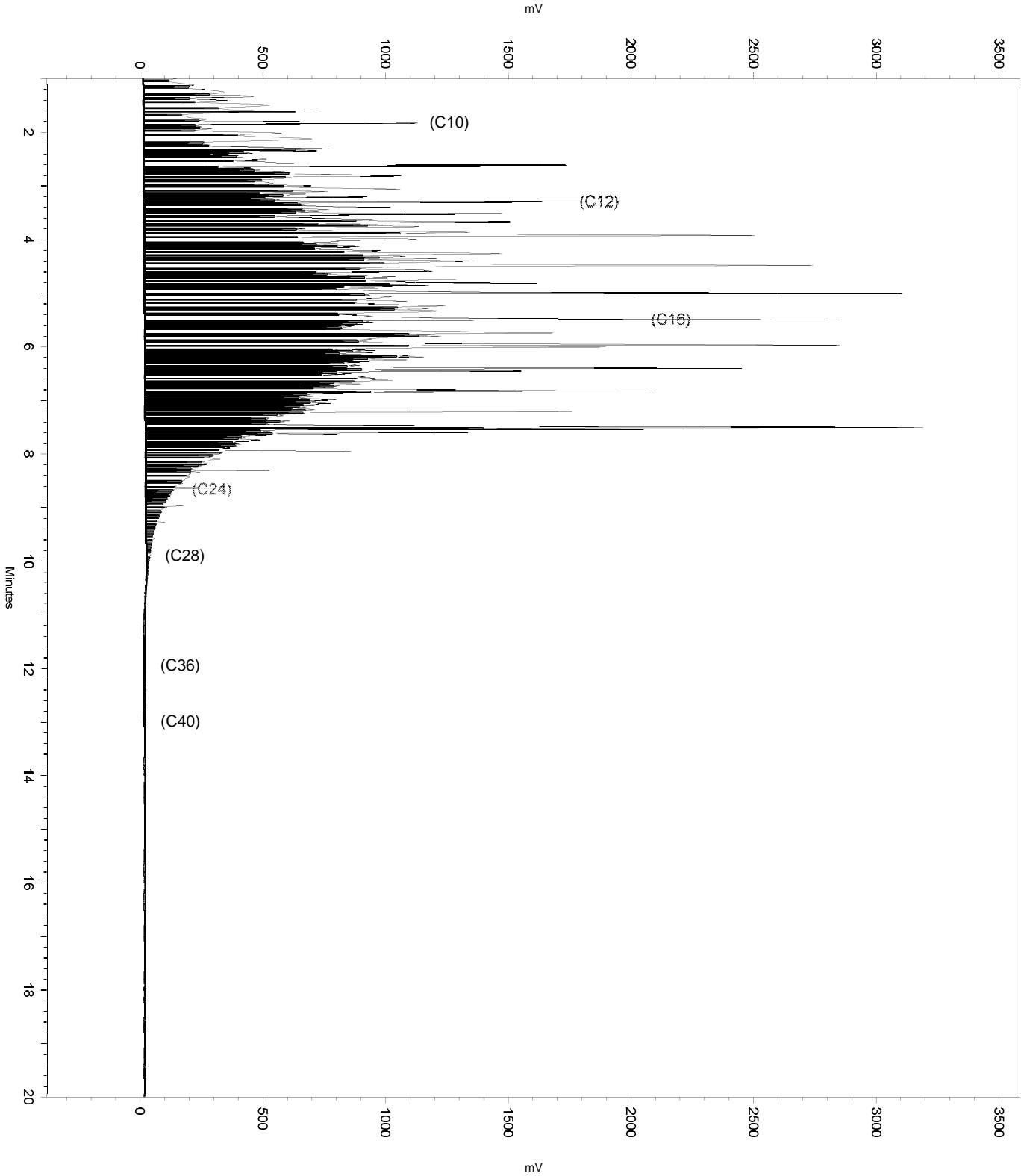
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	10.098	0.046	0

Sample Name: ical,s36609,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a026
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 12:08:57 AM
Analysis Date: 7/5/2018 10:28:34 AM
Instrument: GC17A Vial: 26 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36609,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a026
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 12:08:57 AM
 Analysis Date: 7/5/2018 10:27:08 AM
 Instrument: GC17A Vial: 26 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	169593920	0.000 CAL
DSL:10-22	288548192	5000.000 CAL
DSL:10-24	294506624	5000.000 CAL
DSL:10-28	295761408	5000.000 CAL
DSL:12-24	255752800	5000.000 CAL
DSL:12-28	257007472	5000.000 CAL
DSL:16-24	136443328	5000.000 CAL
MO:22-32	9758808	0.000 CAL
MO:24-36	2033663	0.000 CAL
MO:28-40	142238	0.000 CAL
BUNKC:10-40	295889856	0.000 CAL
BUNKC:12-40	257135824	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

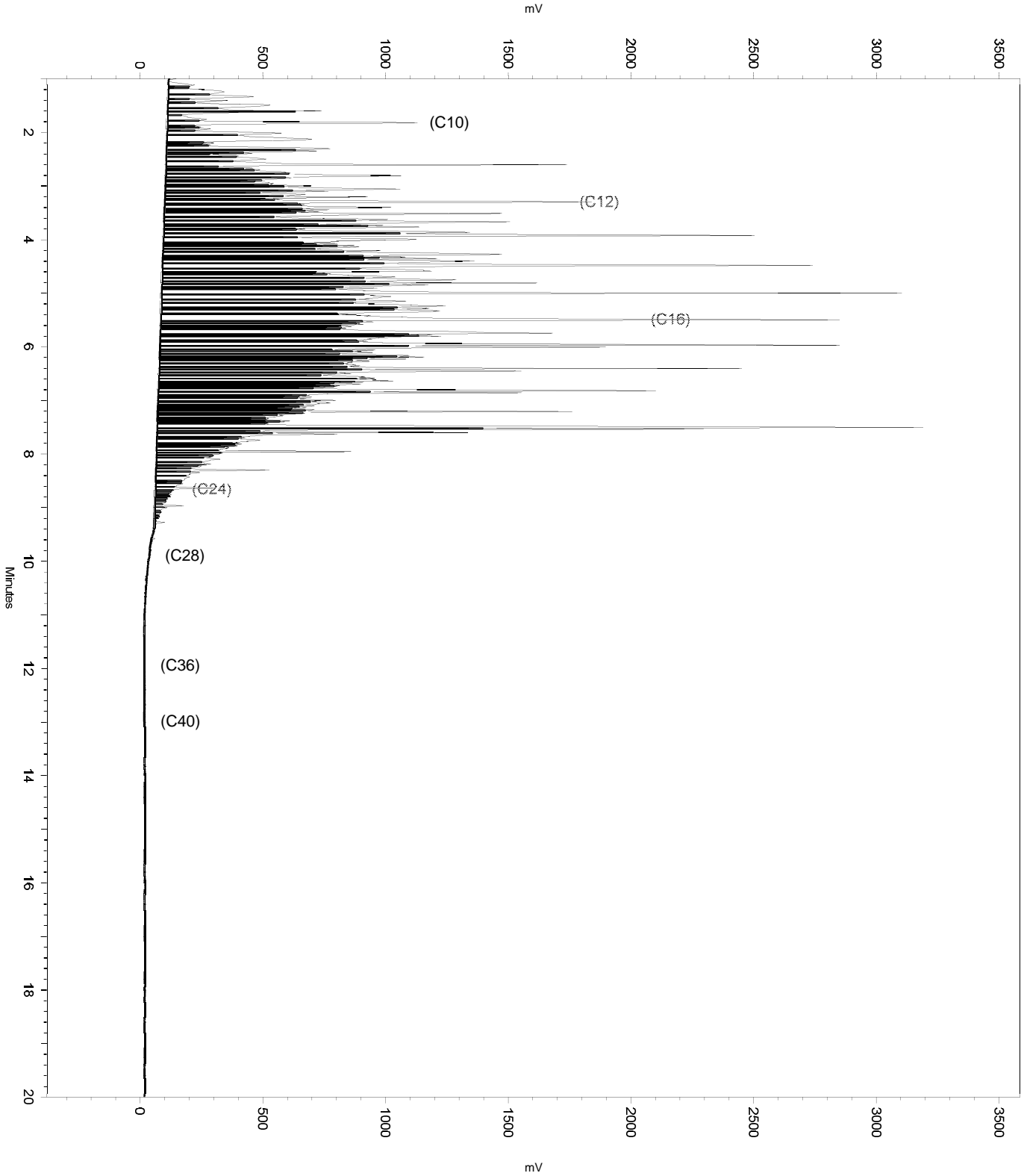
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

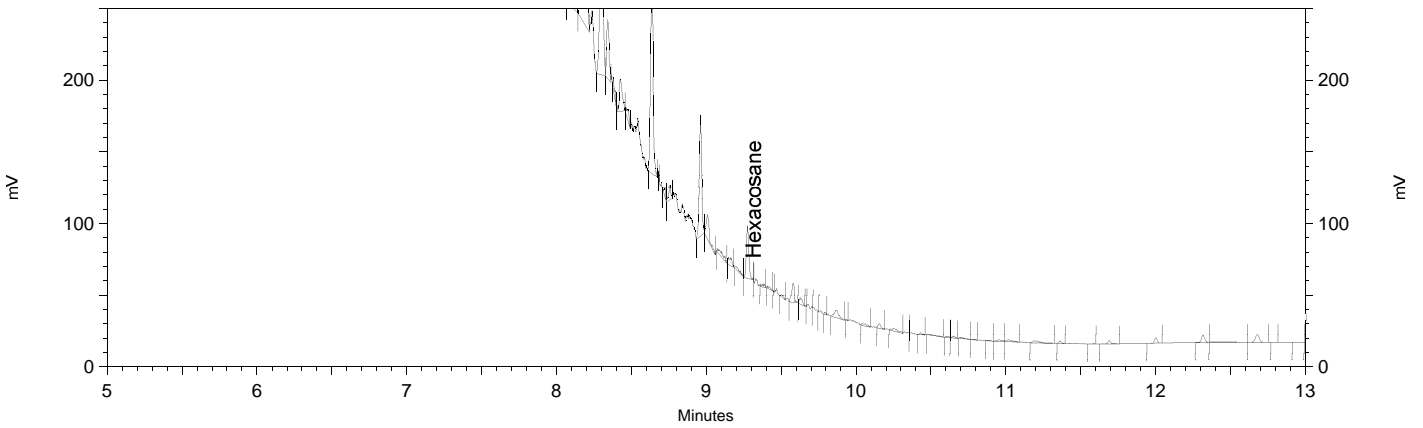
Sample Name: ical,s36609,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a026
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 12:08:57 AM
Analysis Date: 7/5/2018 10:27:08 AM
Instrument: GC17A Vial: 26 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36609,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a026
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/4/2018 12:08:57 AM
 Analysis Date: 7/4/2018 12:29:07 AM
 Instrument: GC17A Vial: 26 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.580	266274	3.066
Hexacosane	9.317	0	0.000



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

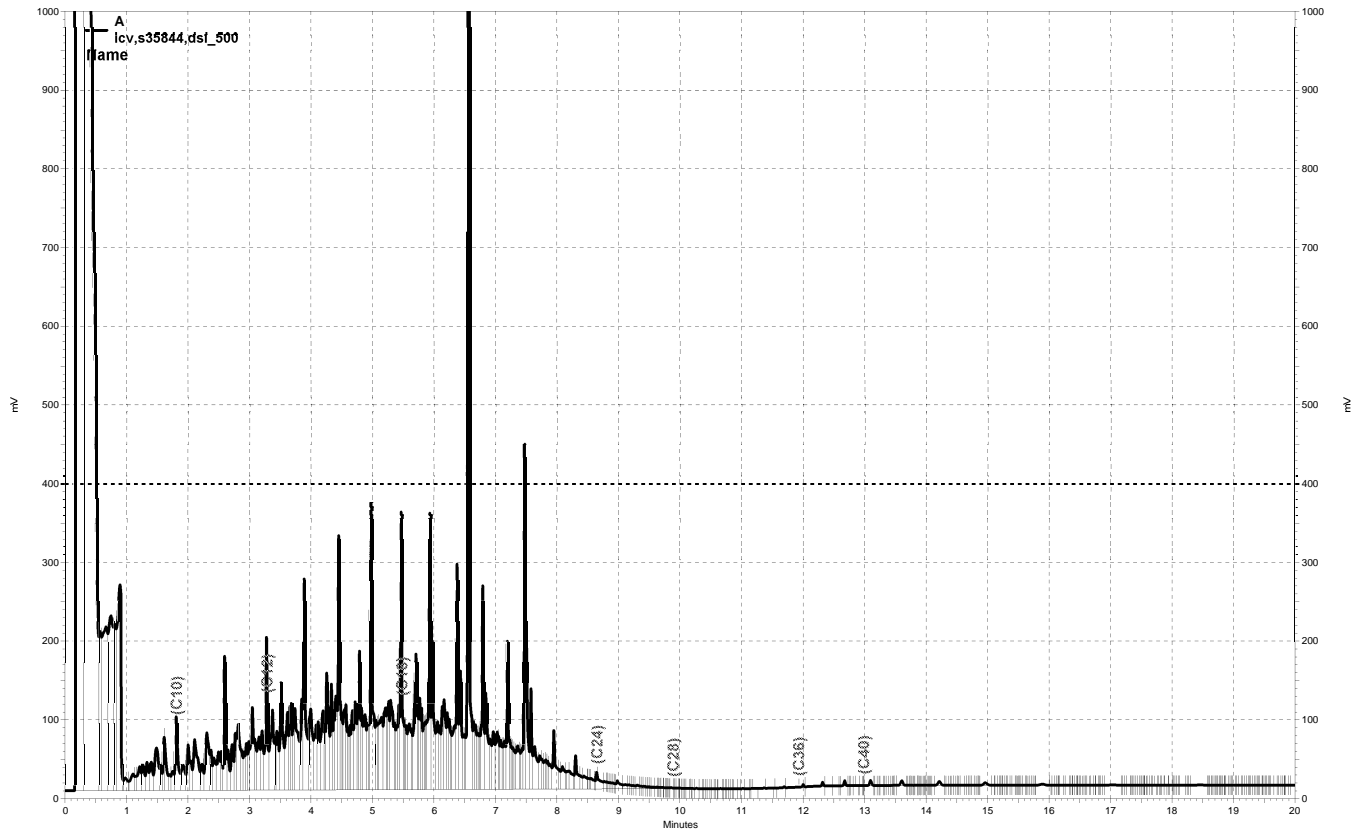
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a026_F3F4.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a028, A

Sample Name: icv,s35844,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a028
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 1:04:49 AM
 Analysis Date: 7/5/2018 10:37:09 AM
 Instrument: GC17A Vial: 28 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	17469544	215.841
DSL:10-22	32611482	516.562
DSL:10-24	33345720	515.360
DSL:10-28	33619368	514.421
DSL:12-24	29010764	521.808
DSL:12-28	29284414	520.642
DSL:16-24	16973420	581.559
MO:22-32	1325264	27.841
MO:24-36	396828	8.070
MO:28-40	73360	2.275
BUNKC:10-40	33685280	1101.215
BUNKC:12-40	29350326	987.974

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

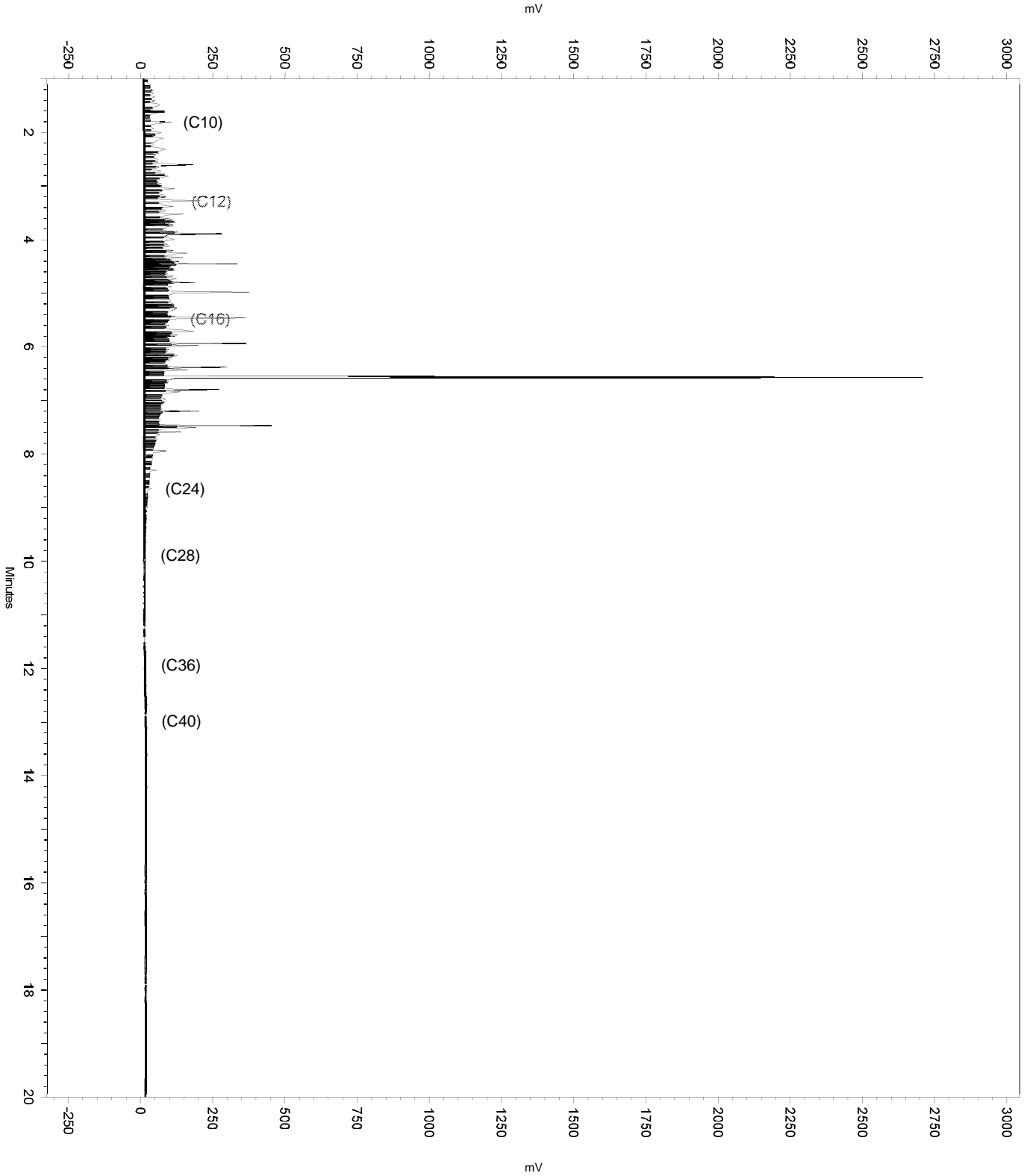
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a028
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.519     6.697     0
No Split Peak           6.594     0          0
Yes Move BL Start       10.098    -0.073    0
  
```

Sample Name: icv_s35844_dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a028
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 1:04:49 AM
Analysis Date: 7/5/2018 10:37:09 AM
Instrument: GC17A Vial: 28 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: icv,s35844,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a028
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 1:04:49 AM
 Analysis Date: 7/5/2018 10:36:53 AM
 Instrument: GC17A Vial: 28 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	13944858	172.292
DSL:10-22	26180266	414.693
DSL:10-24	26281228	406.178
DSL:10-28	26310002	402.578
DSL:12-24	23185244	417.026
DSL:12-28	23214018	412.718
DSL:16-24	13263774	454.456
MO:22-32	247997	5.210
MO:24-36	67666	1.376
MO:28-40	64508	2.001
BUNKC:10-40	26373134	862.171
BUNKC:12-40	23277150	783.542
?	0	0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

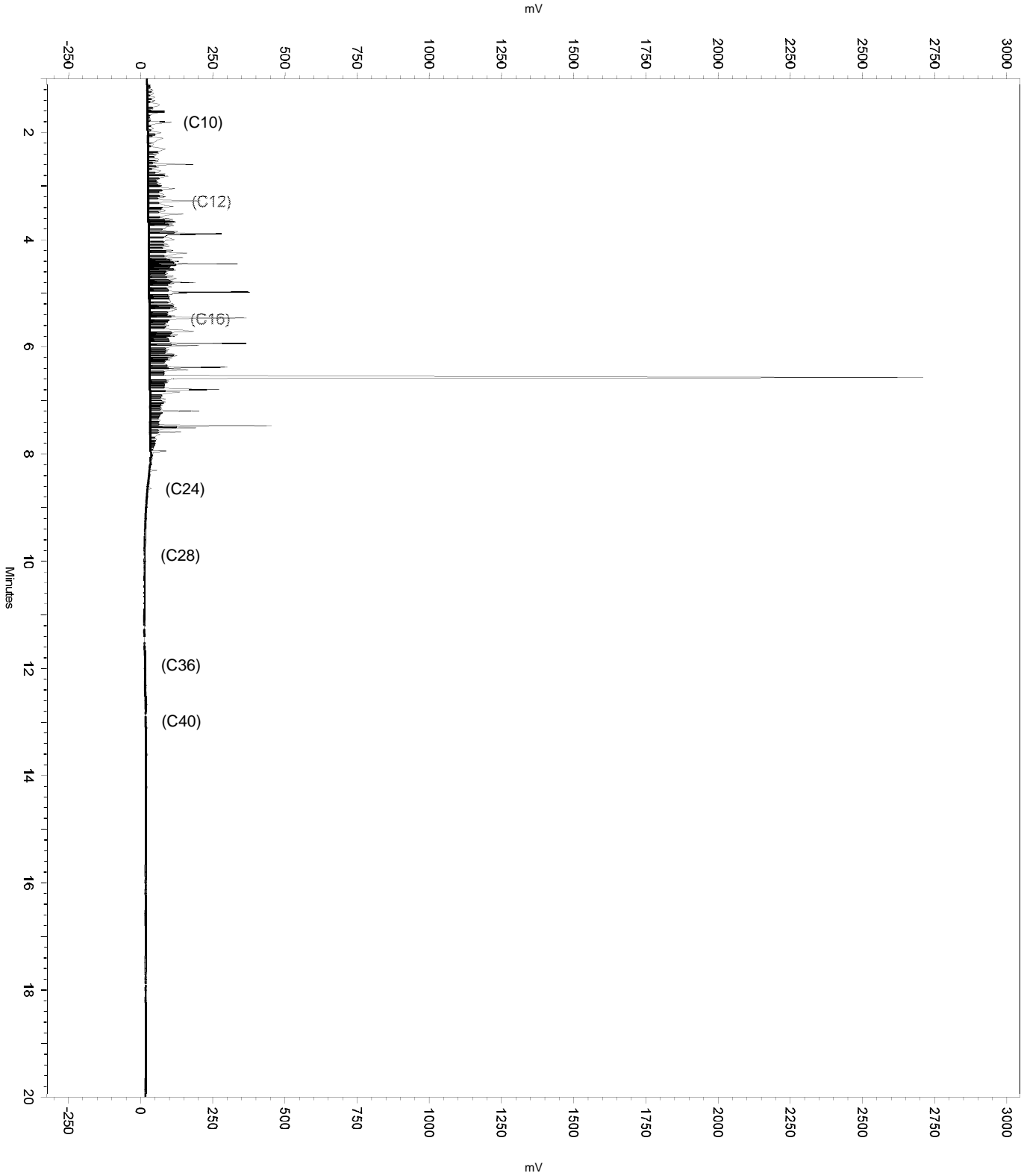
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a028
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.519     6.697     0
No Split Peak           6.594     0          0
  
```

Sample Name: icv_s35844_dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a028
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 1:04:49 AM
Analysis Date: 7/5/2018 10:36:53 AM
Instrument: GC17A Vial: 28 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

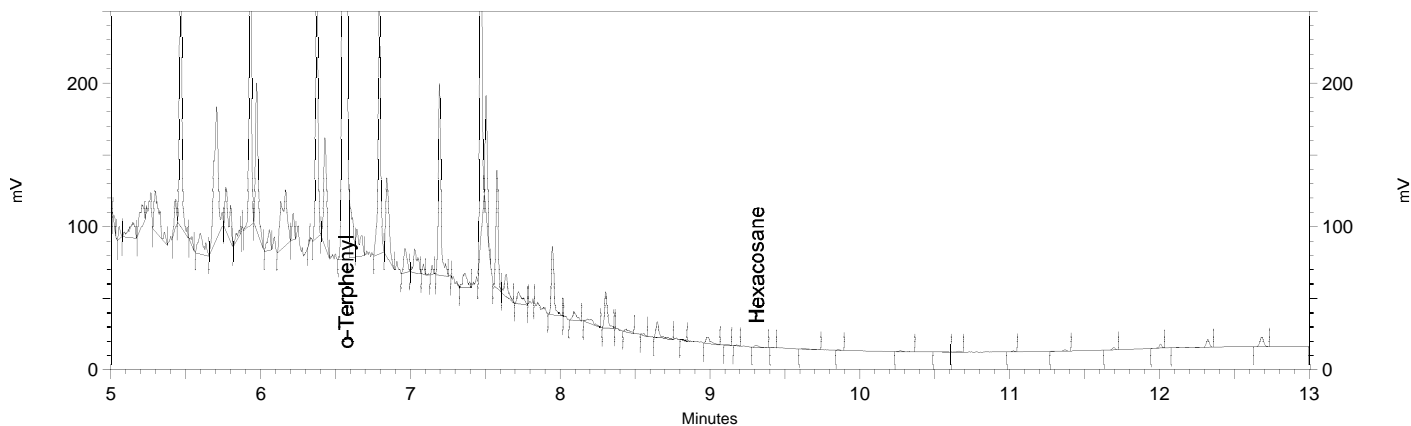


Sample Name: icv,s35844,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a028
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/4/2018 1:04:49 AM
 Analysis Date: 7/5/2018 10:34:28 AM
 Instrument: GC17A Vial: 28 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.573	3551771	94.846
Hexacosane	9.310	3179	0.092



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a028

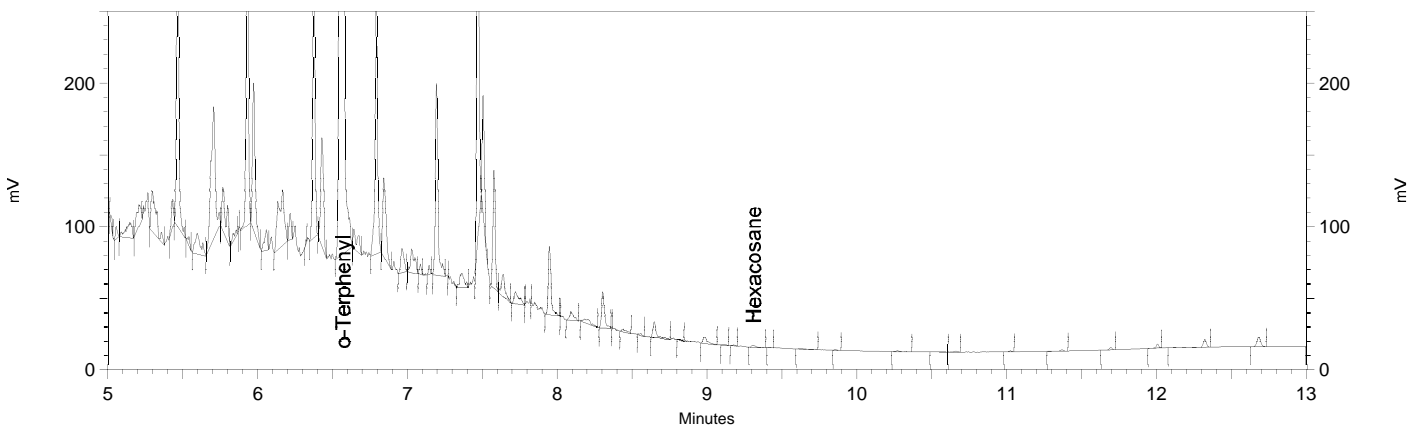
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.519	6.697	0
Yes	Split Peak	6.594	0	0

Sample Name: icv_s35844_dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a028
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/4/2018 1:04:49 AM
 Analysis Date: 7/5/2018 10:34:14 AM
 Instrument: GC17A Vial: 28 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.573	3584118	95.710
Hexacosane	9.310	3179	0.092



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a028				
None				

ENTHALPY INITIAL CALIBRATION FOR 301314 GCSV Water: EPA 8015B

Inst : GC17A
 Calnum : 178265382003
 Units : mg/L

Name : MO_184
 Date : 04-JUL-2018 02:00
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	184a030	178265382030	MO_50	04-JUL-2018 02:00	S36946
L2	184a031	178265382031	MO_250	04-JUL-2018 02:28	S36948
L3	184a032	178265382032	MO_500	04-JUL-2018 02:55	S36949
L4	184a033	178265382033	MO_1000	04-JUL-2018 03:23	S36951
L5	184a034	178265382034	MO_2500	04-JUL-2018 03:51	S36926 (2X)
L6	184a035	178265382035	MO_5000	04-JUL-2018 04:19	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	45568	50014	49846	50127	50897	48592	AVRG		2.03E-5		49174	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-7	250.00	2	500.00	1	1000.0	2	2500.0	4	5000.0	-1

WA1 07/05/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 178265382003

Name : MO_184
Cal Date : 04-JUL-2018

ICV 178265382037 (184a037 04-JUL-2018) stds: S37407

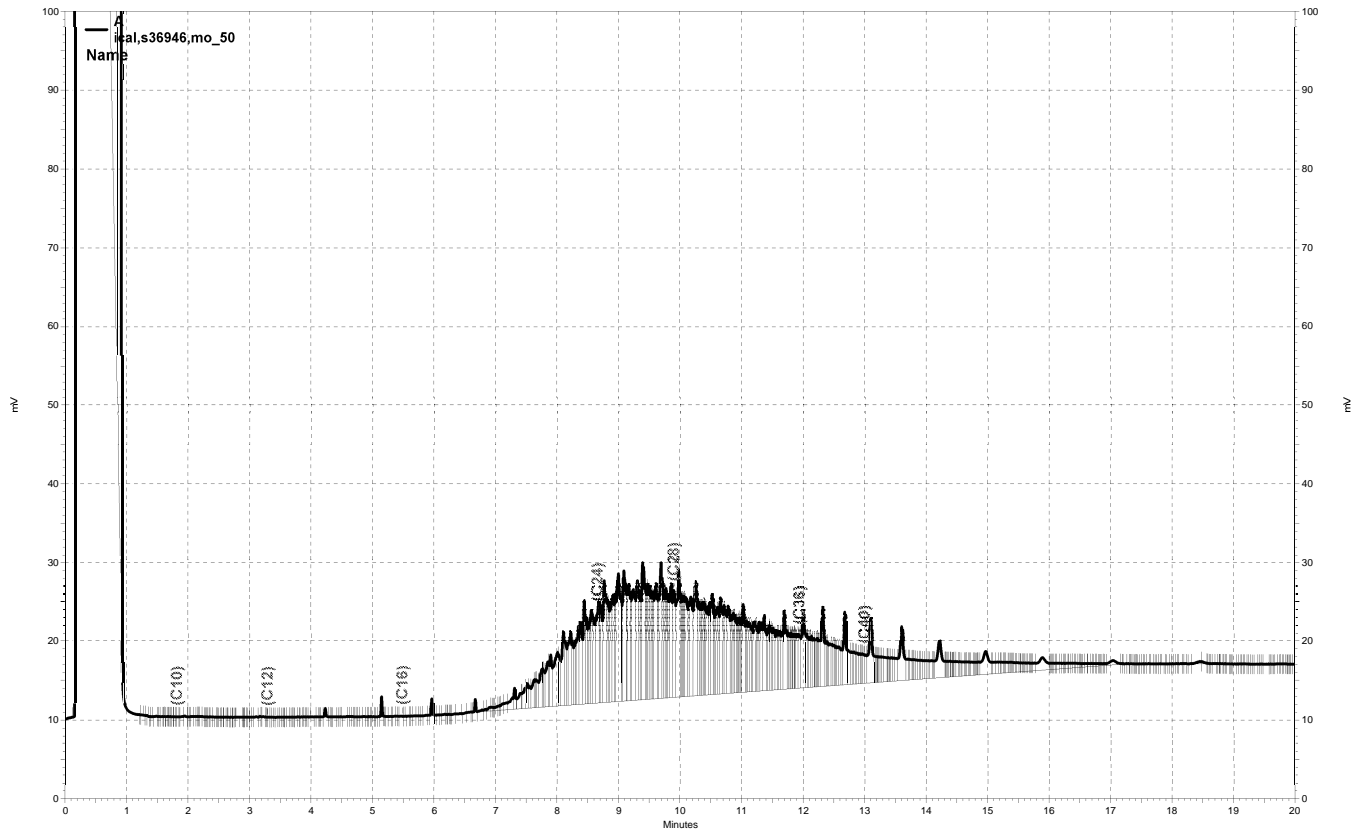
Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	465.5	mg/L	-7	15	

Analyst: WA1

Date: 07/05/18

Reviewer: EAH

Date: 07/05/18



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a030, A

Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a030
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\teh184b.met
 Run Date: 7/4/2018 2:00:21 AM
 Analysis Date: 7/5/2018 10:32:31 AM
 Instrument: GC17A Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	11216	0.000 CAL
DSL:10-22	207062	0.000 CAL
DSL:10-24	595184	0.000 CAL
DSL:10-28	1564761	0.000 CAL
DSL:12-24	592147	0.000 CAL
DSL:12-28	1561724	0.000 CAL
DSL:16-24	584137	0.000 CAL
MO:22-32	2172276	50.000 CAL
MO:24-36	2278415	50.000 CAL
MO:28-40	1601084	50.000 CAL
BUNKC:10-40	3065373	0.000 CAL
BUNKC:12-40	3062336	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

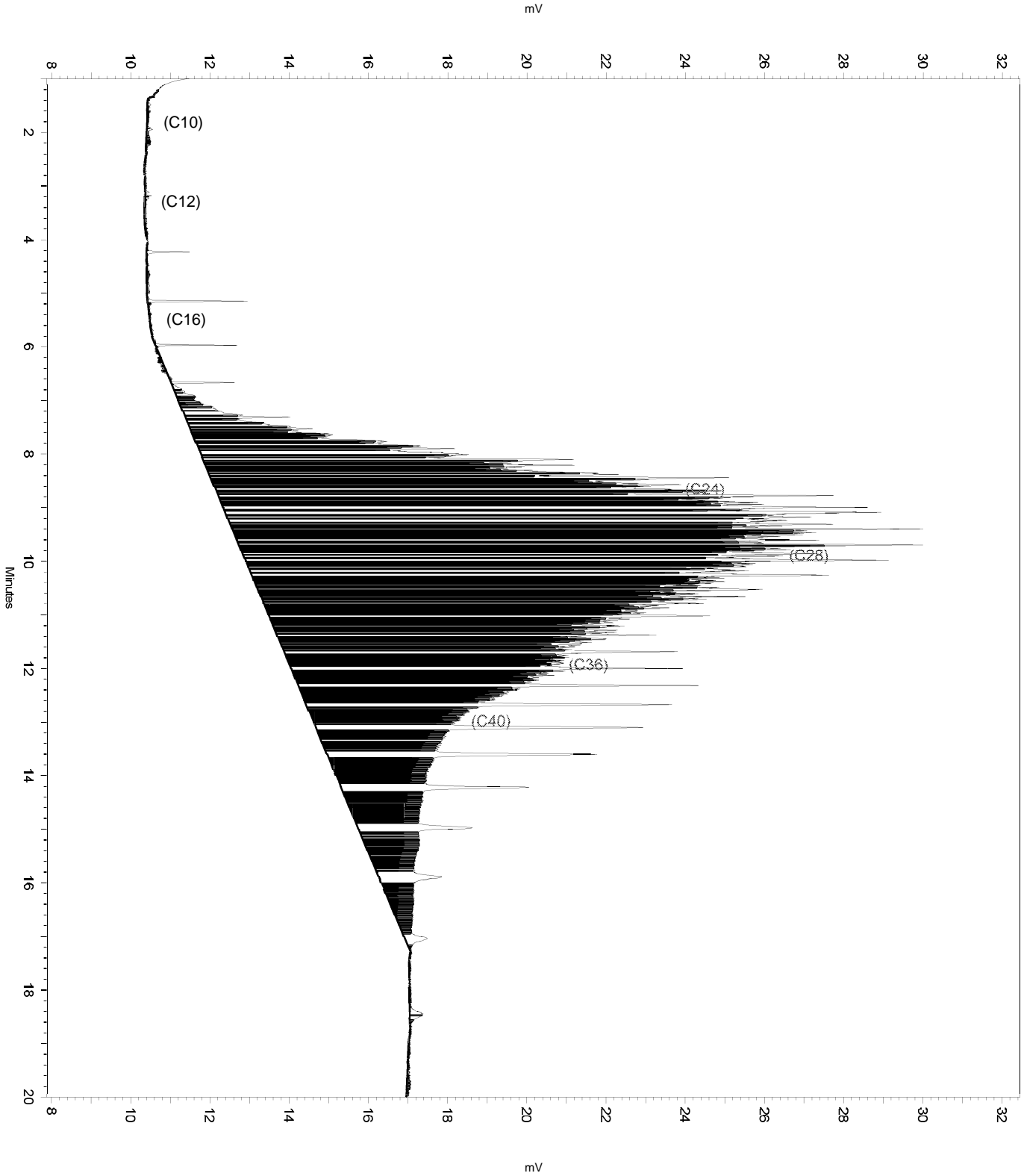
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0          10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a030
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Stop        6.087     17.319    0
  
```


Sample Name: ical,s36946,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a030
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 2:00:21 AM
Analysis Date: 7/5/2018 10:32:31 AM
Instrument: GC17A Vial: 30 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a030
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 2:00:21 AM
 Analysis Date: 7/5/2018 10:28:49 AM
 Instrument: GC17A Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	11216	0.000 CAL
DSL:10-22	153737	0.000 CAL
DSL:10-24	475886	0.000 CAL
DSL:10-28	1267790	0.000 CAL
DSL:12-24	472849	0.000 CAL
DSL:12-28	1264753	0.000 CAL
DSL:16-24	464839	0.000 CAL
MO:22-32	1673282	50.000 CAL
MO:24-36	1571987	50.000 CAL
MO:28-40	804011	50.000 CAL
BUNKC:10-40	1994605	0.000 CAL
BUNKC:12-40	1991568	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

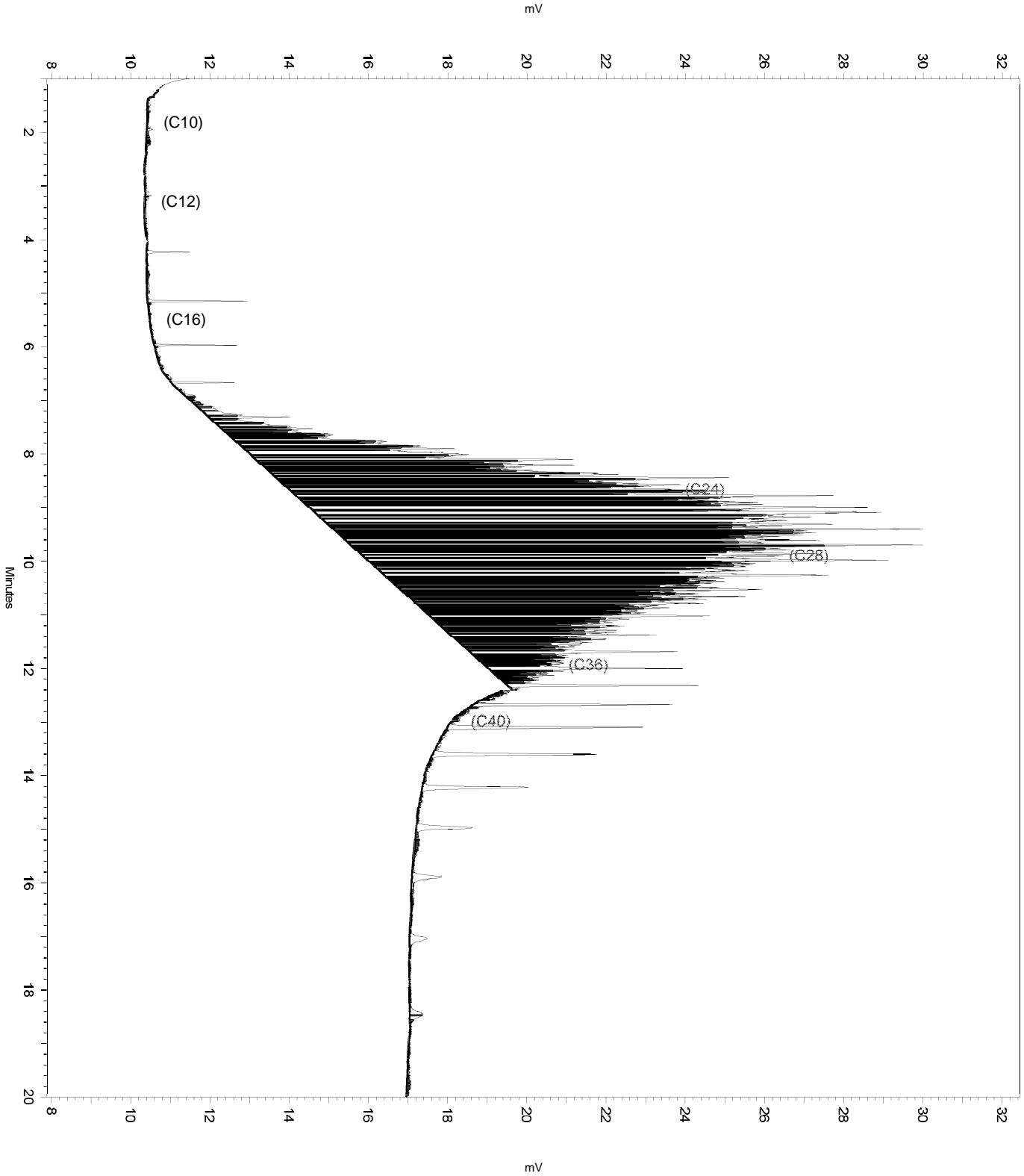
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a030
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

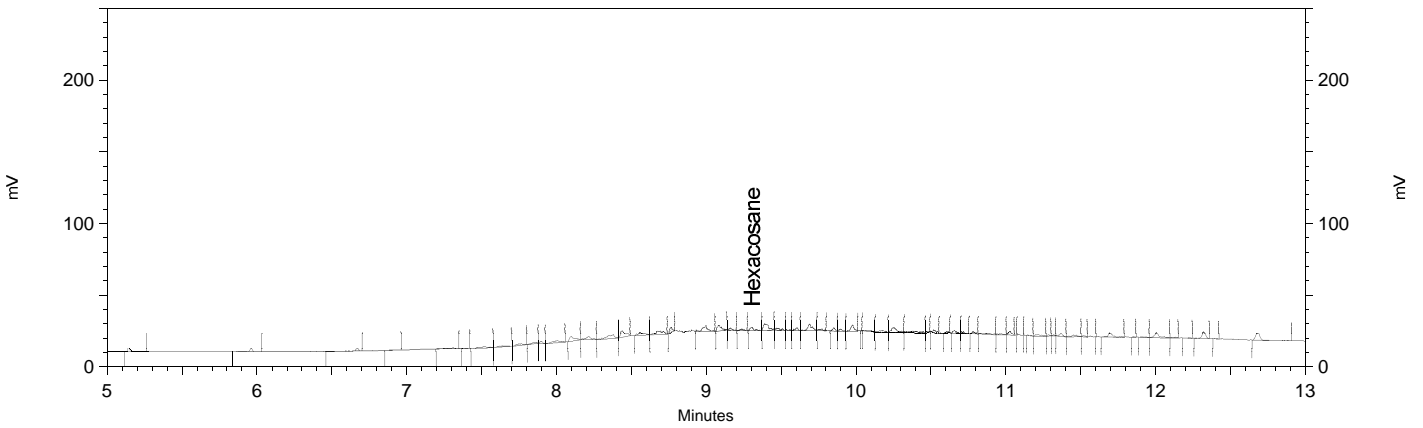
Sample Name: ical,s36946,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a030
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 2:00:21 AM
Analysis Date: 7/5/2018 10:28:49 AM
Instrument: GC17A Vial: 30 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a030
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/4/2018 2:00:21 AM
 Analysis Date: 7/4/2018 2:20:30 AM
 Instrument: GC17A Vial: 30 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	9.310	5673	0.071



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

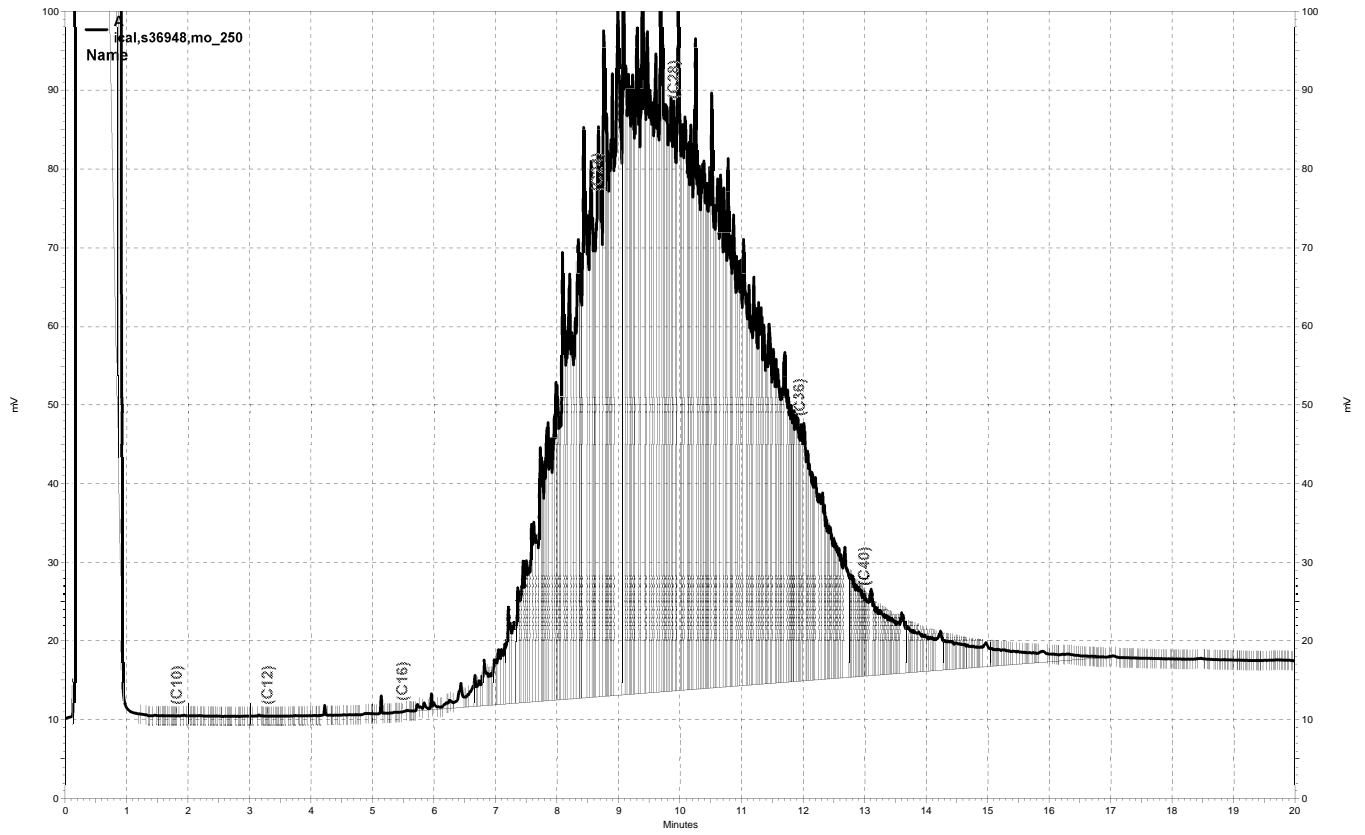
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a030_F3F8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a031, A

Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a031
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 2:28:11 AM
 Analysis Date: 7/5/2018 10:32:36 AM
 Instrument: GC17A Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	13006	0.000 CAL
DSL:10-22	1319929	0.000 CAL
DSL:10-24	3563656	0.000 CAL
DSL:10-28	8997670	0.000 CAL
DSL:12-24	3559895	0.000 CAL
DSL:12-28	8993909	0.000 CAL
DSL:16-24	3551197	0.000 CAL
MO:22-32	12287951	250.000 CAL
MO:24-36	12503485	250.000 CAL
MO:28-40	8082483	250.000 CAL
BUNKC:10-40	16623743	0.000 CAL
BUNKC:12-40	16619982	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

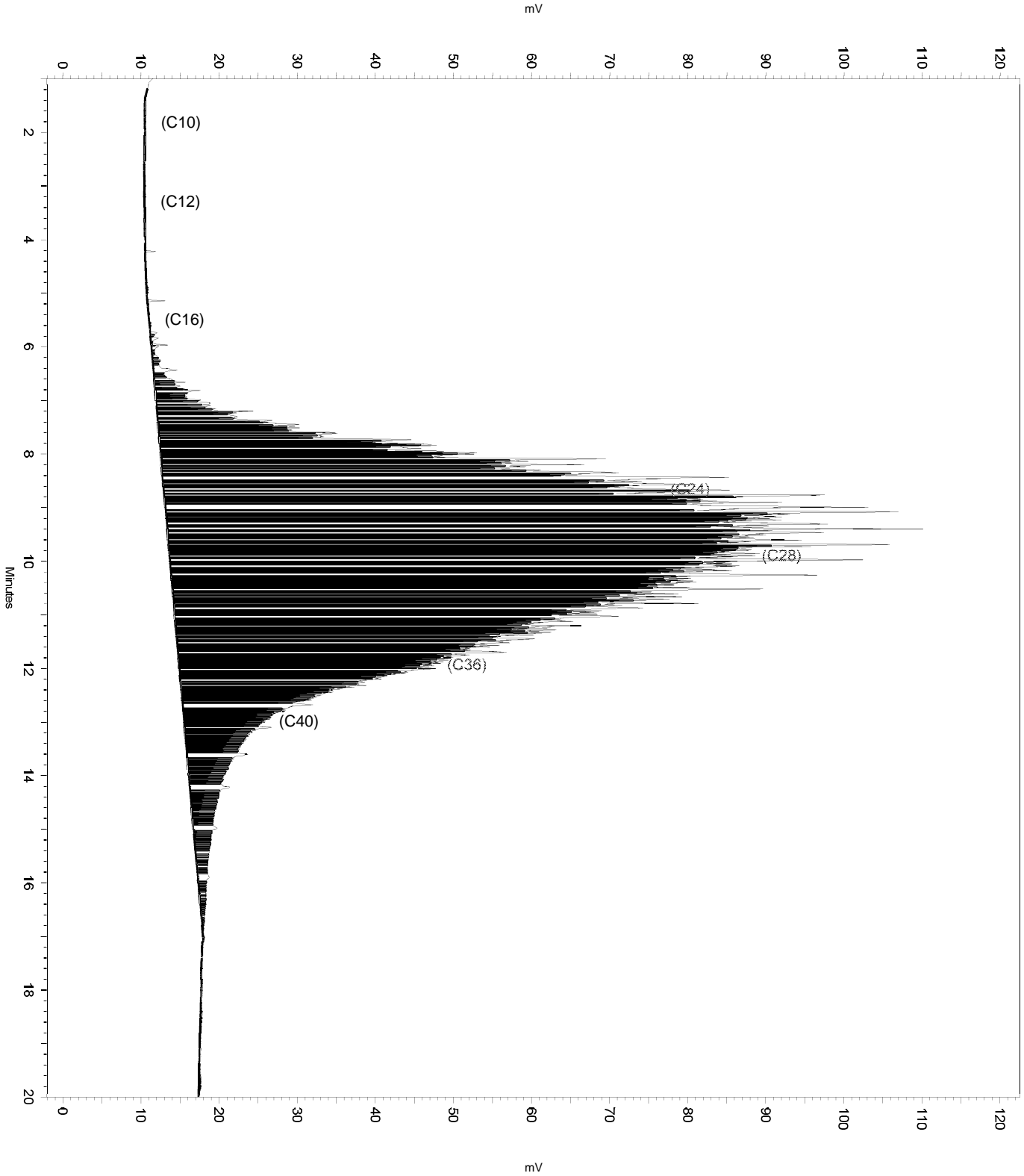
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a031
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Stop        6.128     17.076    0
  
```

Sample Name: ical,s36948,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a031
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 2:28:11 AM
Analysis Date: 7/5/2018 10:32:36 AM
Instrument: GC17A Vial: 31 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a031
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 2:28:11 AM
 Analysis Date: 7/5/2018 10:29:42 AM
 Instrument: GC17A Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	13006	0.000 CAL
DSL:10-22	238693	0.000 CAL
DSL:10-24	536818	0.000 CAL
DSL:10-28	2435709	0.000 CAL
DSL:12-24	533057	0.000 CAL
DSL:12-28	2431948	0.000 CAL
DSL:16-24	524359	0.000 CAL
MO:22-32	4019335	250.000 CAL
MO:24-36	4578208	250.000 CAL
MO:28-40	2986585	250.000 CAL
BUNKC:10-40	5241882	0.000 CAL
BUNKC:12-40	5238121	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

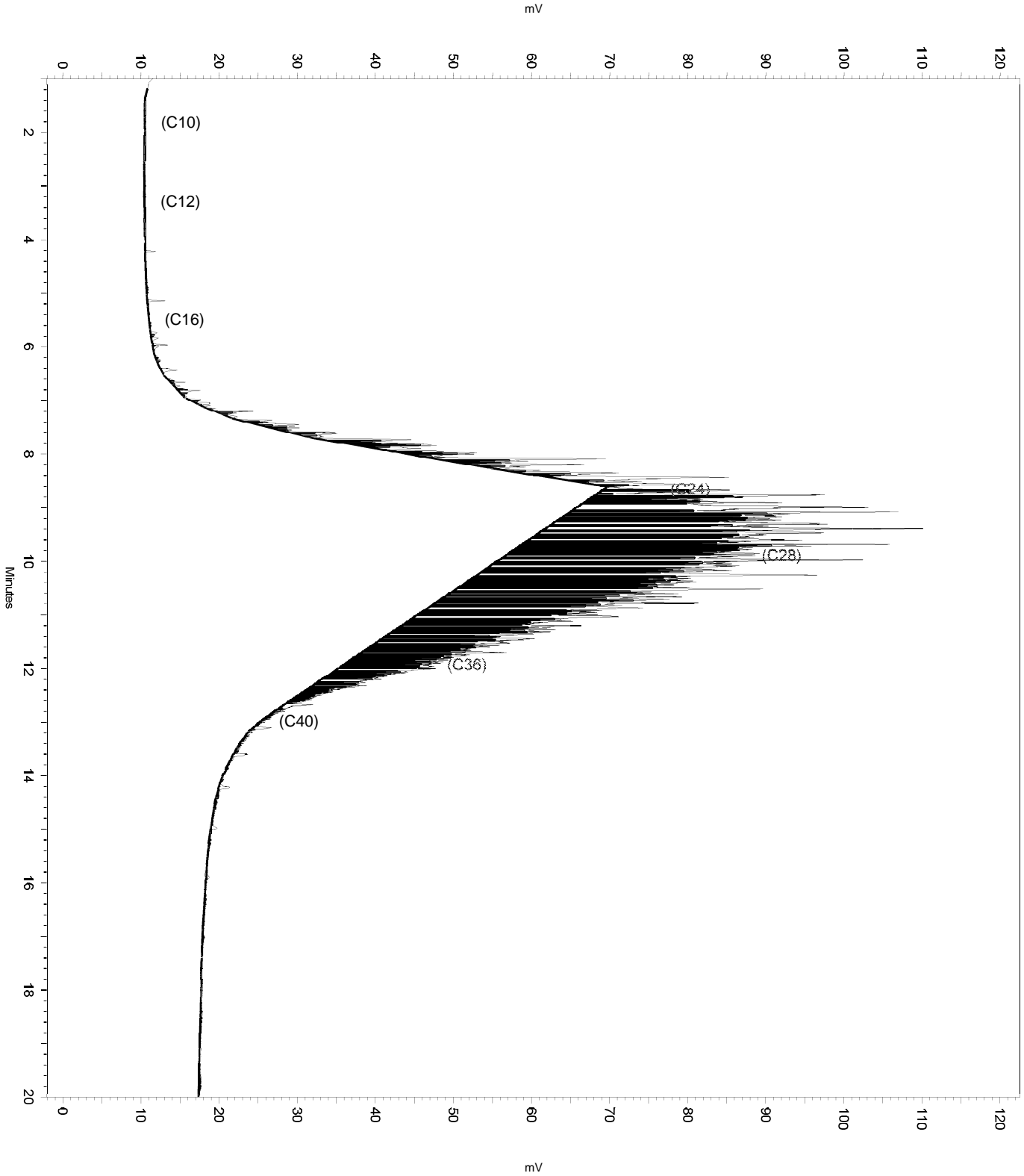
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0          10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a031
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

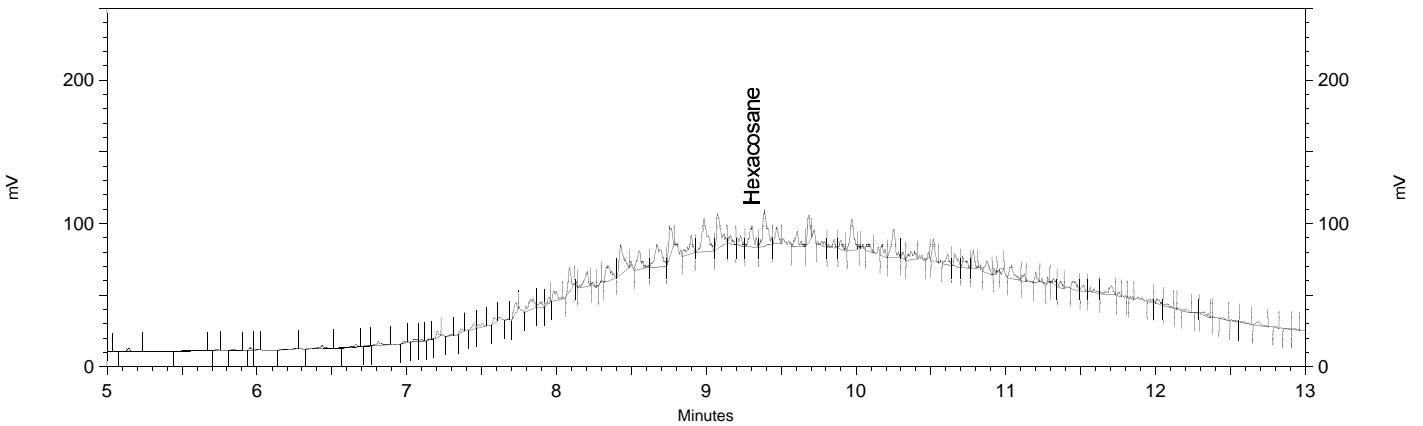

Sample Name: ical,s36948,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a031
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 2:28:11 AM
Analysis Date: 7/5/2018 10:29:42 AM
Instrument: GC17A Vial: 31 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a031
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/4/2018 2:28:11 AM
 Analysis Date: 7/4/2018 2:48:20 AM
 Instrument: GC17A Vial: 31 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	9.307	34966	0.439



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

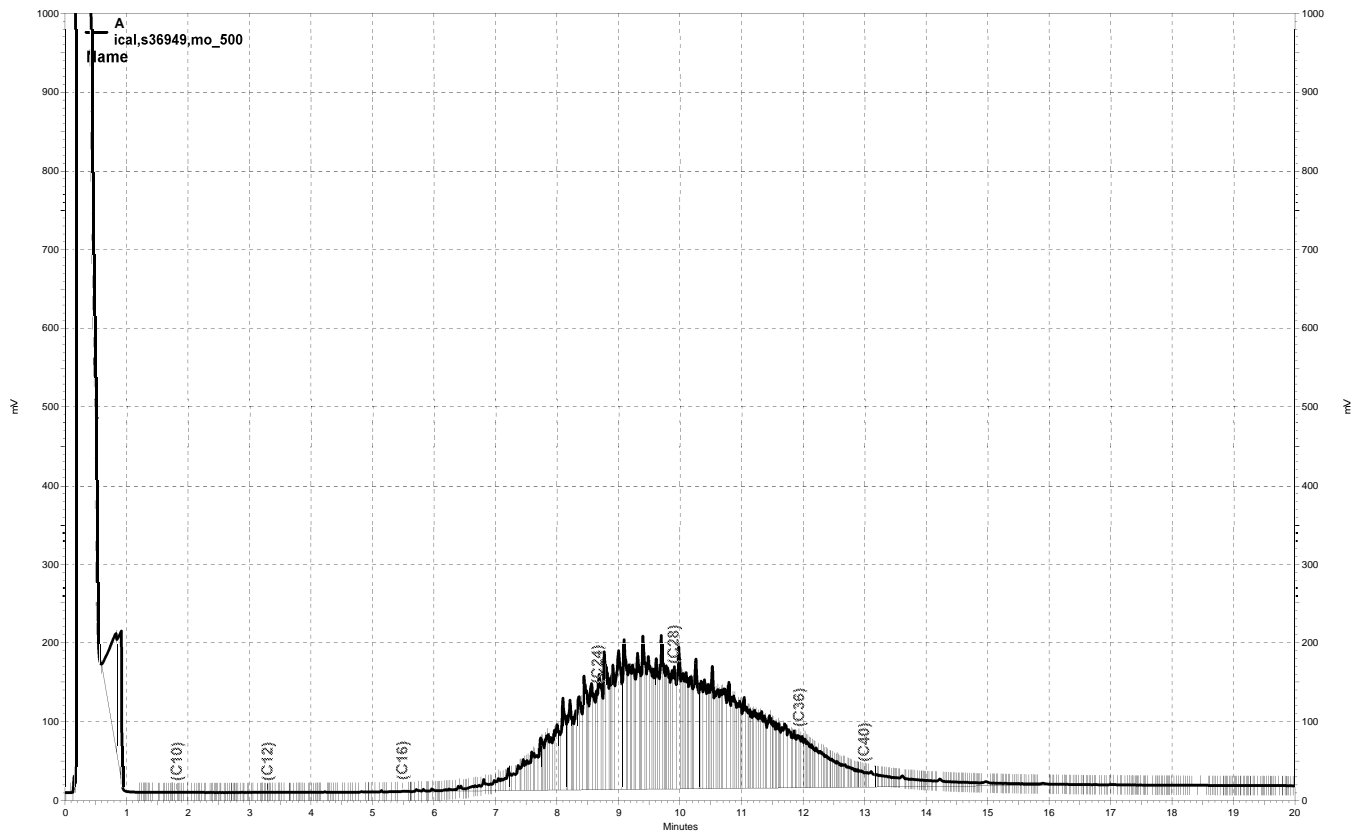
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a031_F3F9.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
	None			



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a032, A

Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a032
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 2:55:54 AM
 Analysis Date: 7/5/2018 10:32:42 AM
 Instrument: GC17A Vial: 32 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	17922	0.000 CAL
DSL:10-22	2823531	0.000 CAL
DSL:10-24	7368417	0.000 CAL
DSL:10-28	18157084	0.000 CAL
DSL:12-24	7364682	0.000 CAL
DSL:12-28	18153352	0.000 CAL
DSL:16-24	7353698	0.000 CAL
MO:22-32	24427554	500.000 CAL
MO:24-36	24923094	500.000 CAL
MO:28-40	16112522	500.000 CAL
BUNKC:10-40	33229436	0.000 CAL
BUNKC:12-40	33225704	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

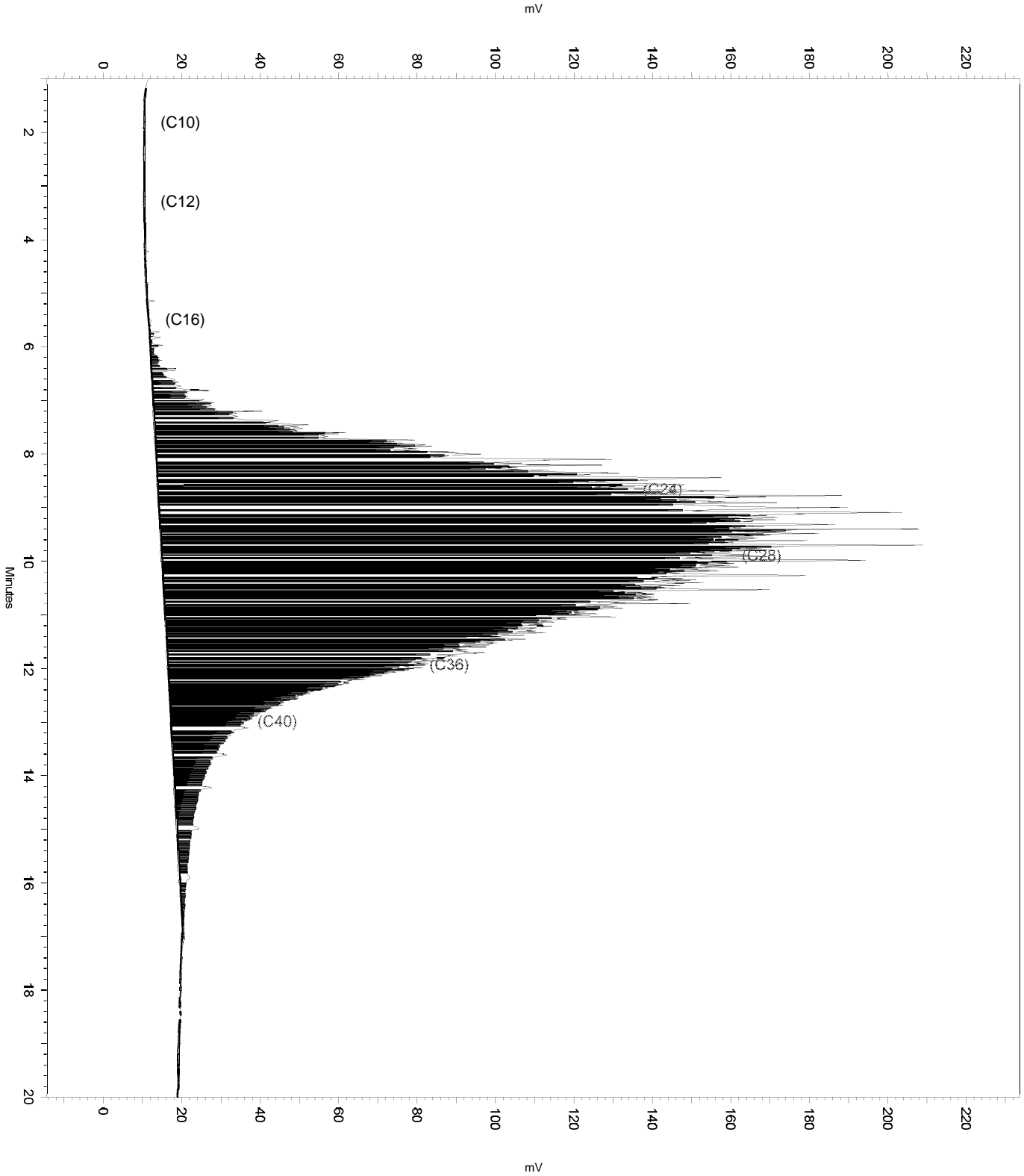
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a032
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Stop        5.897     16.979    0
  
```

Sample Name: ical,s36949,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a032
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 2:55:54 AM
Analysis Date: 7/5/2018 10:32:42 AM
Instrument: GC17A Vial: 32 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a032
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 2:55:54 AM
 Analysis Date: 7/5/2018 10:30:12 AM
 Instrument: GC17A Vial: 32 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	17922	0.000 CAL
DSL:10-22	1184474	0.000 CAL
DSL:10-24	3881221	0.000 CAL
DSL:10-28	9823121	0.000 CAL
DSL:12-24	3877486	0.000 CAL
DSL:12-28	9819386	0.000 CAL
DSL:16-24	3866502	0.000 CAL
MO:22-32	11117564	500.000 CAL
MO:24-36	9260796	500.000 CAL
MO:28-40	3188457	500.000 CAL
BUNKC:10-40	12563418	0.000 CAL
BUNKC:12-40	12559683	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

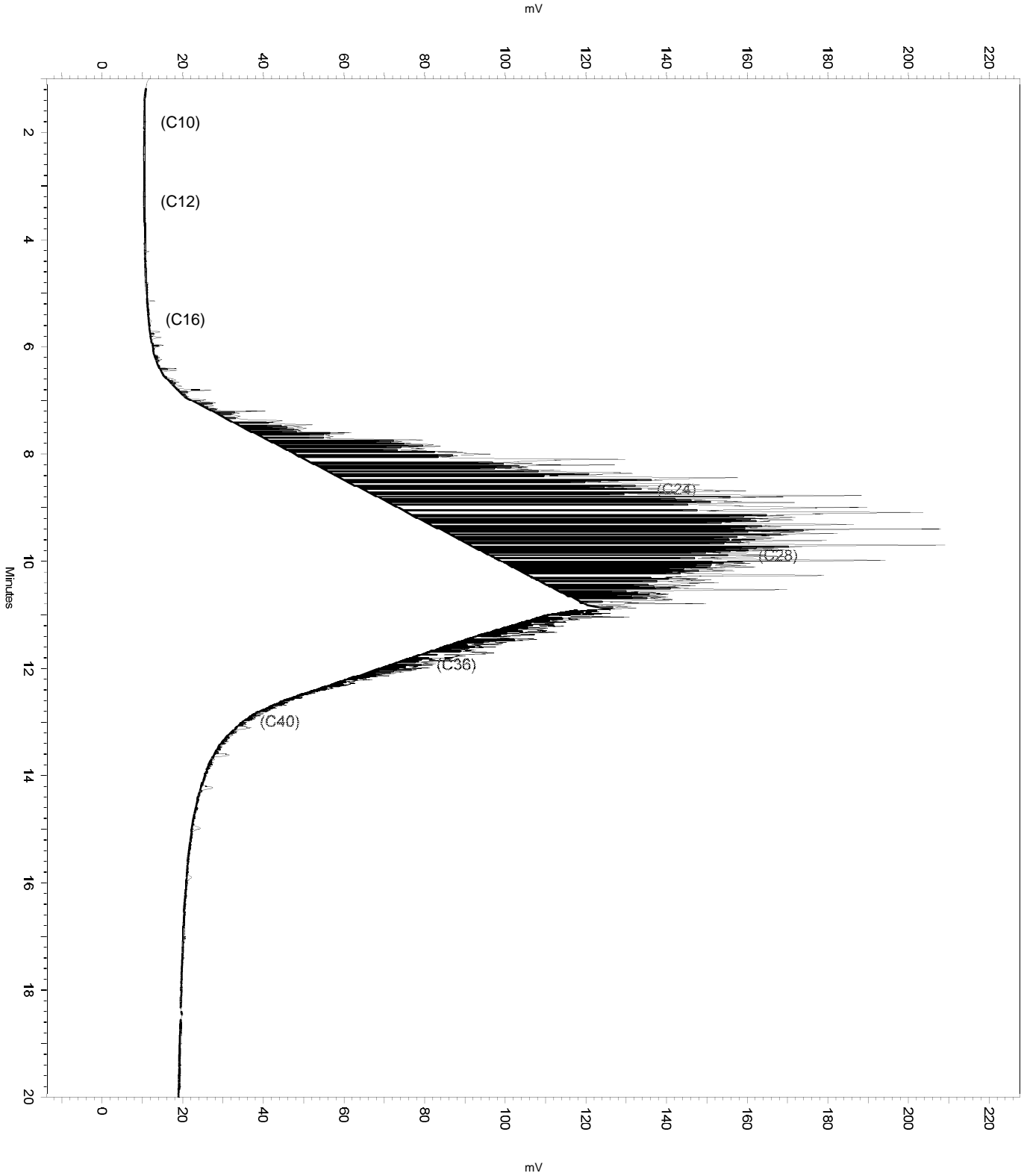
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a032
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

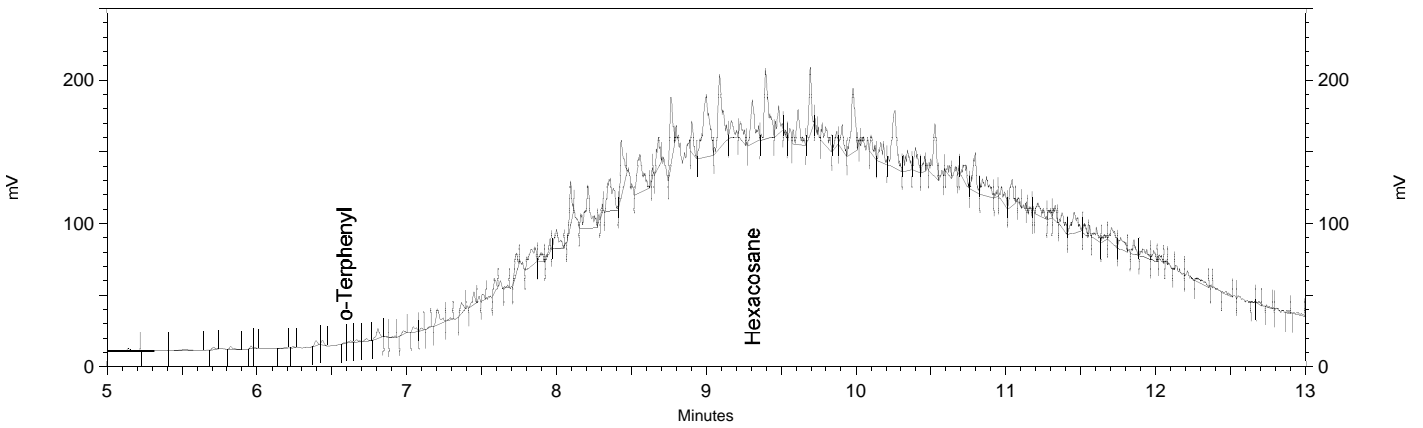
Sample Name: ical,s36949,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a032
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 2:55:54 AM
Analysis Date: 7/5/2018 10:30:12 AM
Instrument: GC17A Vial: 32 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a032
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/4/2018 2:55:54 AM
 Analysis Date: 7/4/2018 3:16:02 AM
 Instrument: GC17A Vial: 32 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.590	661	0.008
Hexacosane	9.310	63257	0.795



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

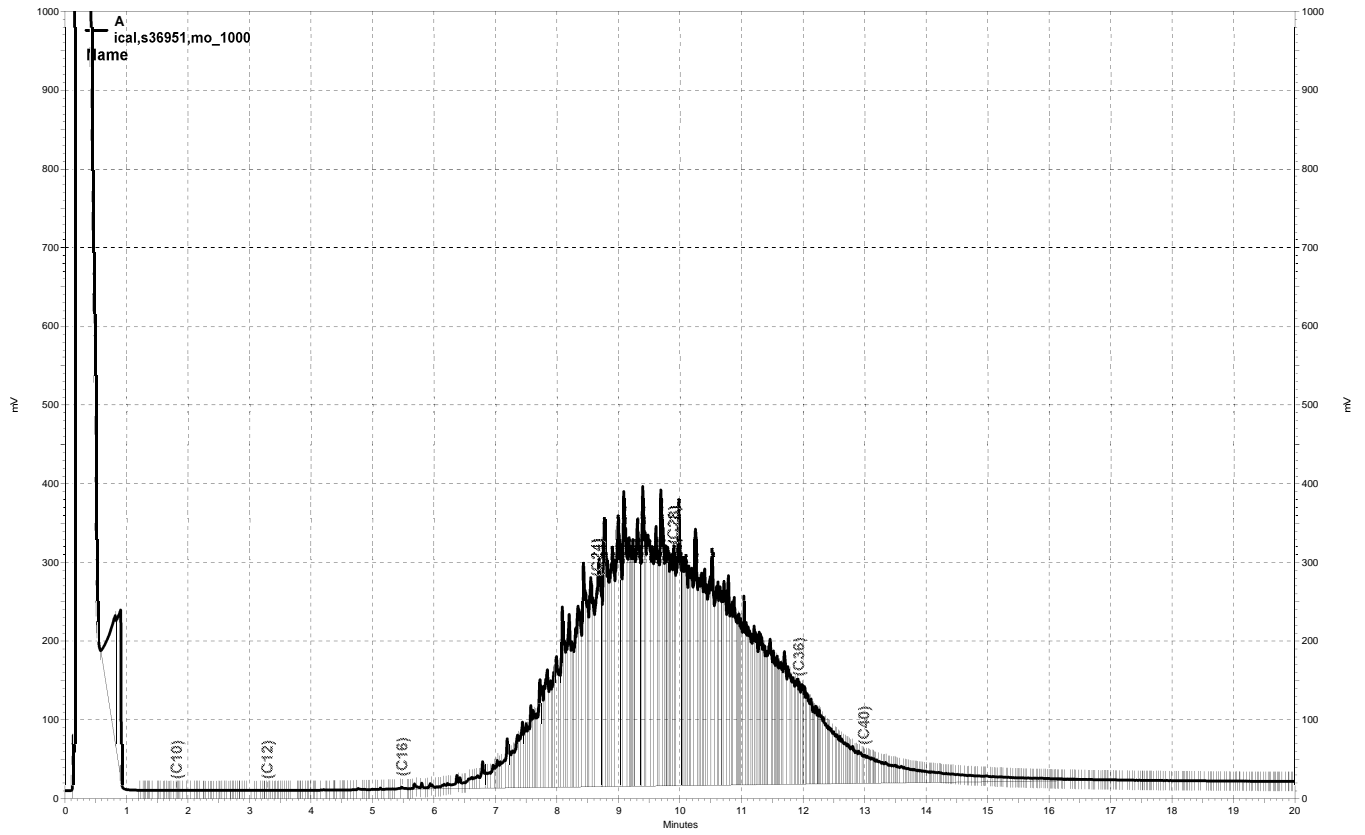
```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Valley to Valley    0          20         0
Yes Shoulder Sensitivity 0          20         100
Yes Integration Off      0          2          0
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a032_F3FA.tmp
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a033, A

Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a033
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 3:23:45 AM
 Analysis Date: 7/5/2018 10:32:47 AM
 Instrument: GC17A Vial: 33 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	39837	0.000 CAL
DSL:10-22	5909557	0.000 CAL
DSL:10-24	14874312	0.000 CAL
DSL:10-28	36513120	0.000 CAL
DSL:12-24	14870742	0.000 CAL
DSL:12-28	36509544	0.000 CAL
DSL:16-24	14848438	0.000 CAL
MO:22-32	49028896	1000.000 CAL
MO:24-36	50127384	1000.000 CAL
MO:28-40	32097988	1000.000 CAL
BUNKC:10-40	66902876	0.000 CAL
BUNKC:12-40	66899300	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

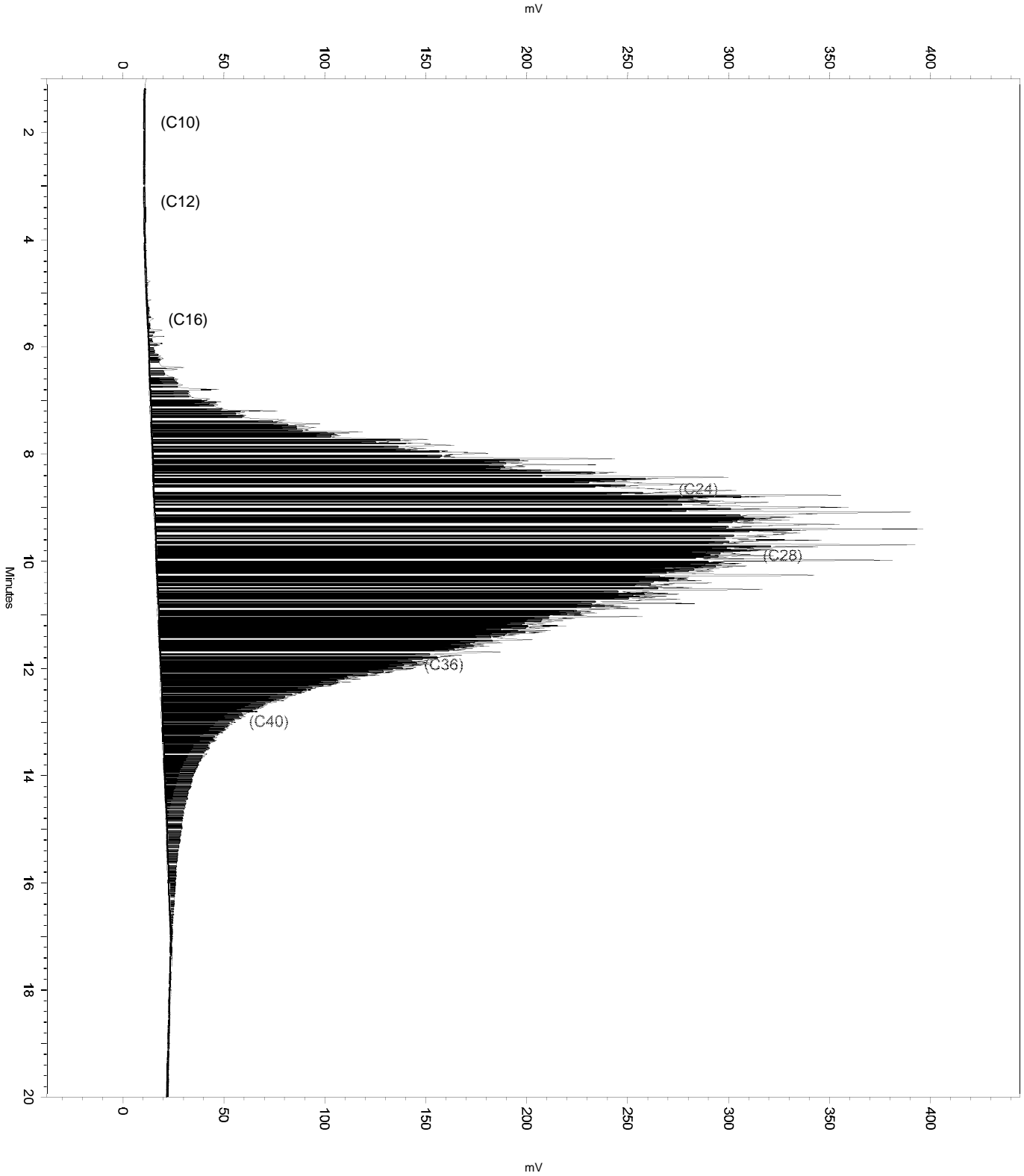
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a033
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Reset Baseline      17.141    0          0
  
```

Sample Name: ical,s36951,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a033
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 3:23:45 AM
Analysis Date: 7/5/2018 10:32:47 AM
Instrument: GC17A Vial: 33 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a033
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 3:23:45 AM
 Analysis Date: 7/5/2018 10:30:38 AM
 Instrument: GC17A Vial: 33 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	44550	0.000 CAL
DSL:10-22	5967684	0.000 CAL
DSL:10-24	14958410	0.000 CAL
DSL:10-28	36653420	0.000 CAL
DSL:12-24	14954840	0.000 CAL
DSL:12-28	36649852	0.000 CAL
DSL:16-24	14929592	0.000 CAL
MO:22-32	49182128	1000.000 CAL
MO:24-36	50320804	1000.000 CAL
MO:28-40	32316716	1000.000 CAL
BUNKC:10-40	67256696	0.000 CAL
BUNKC:12-40	67253128	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

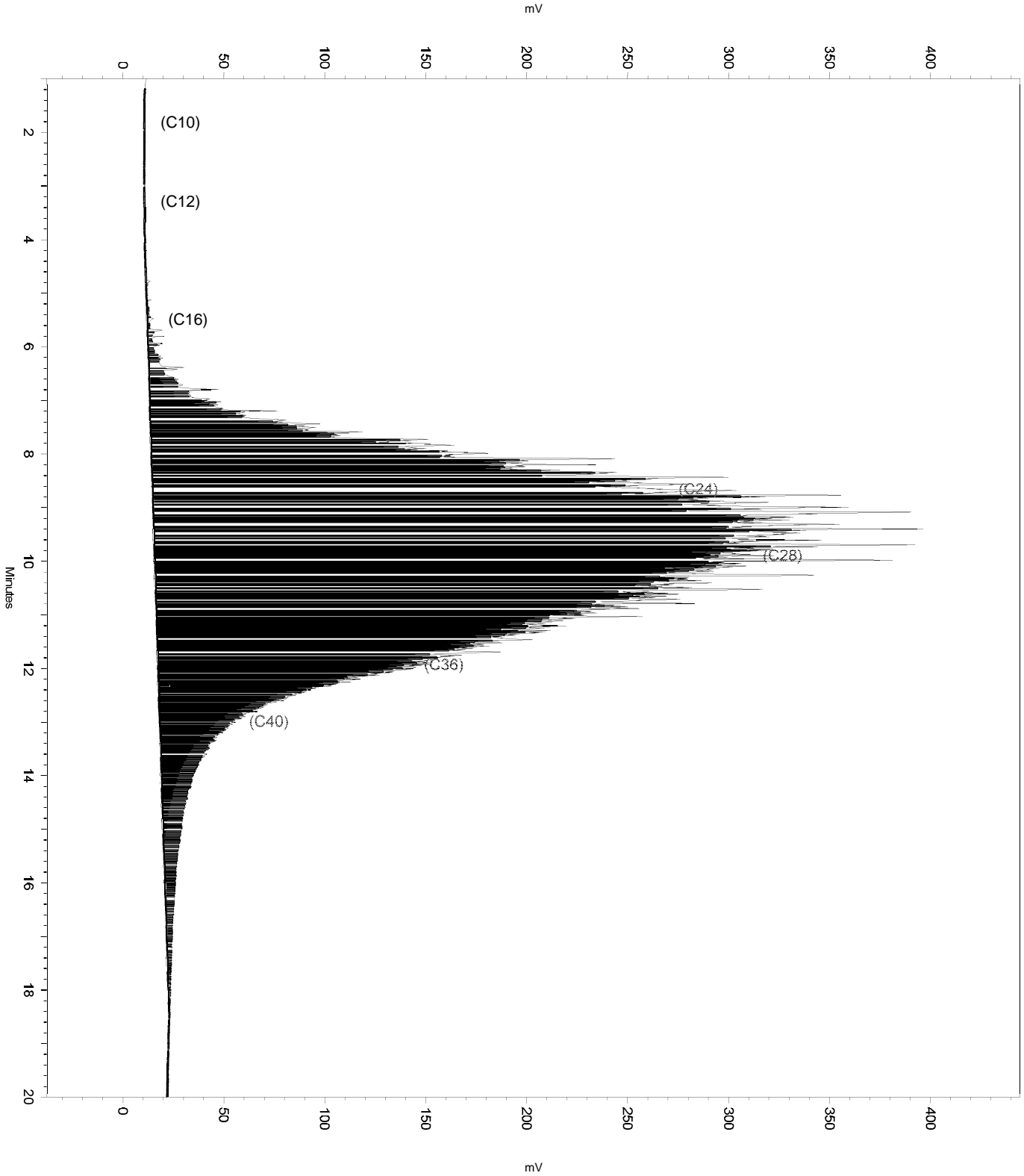
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a033
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

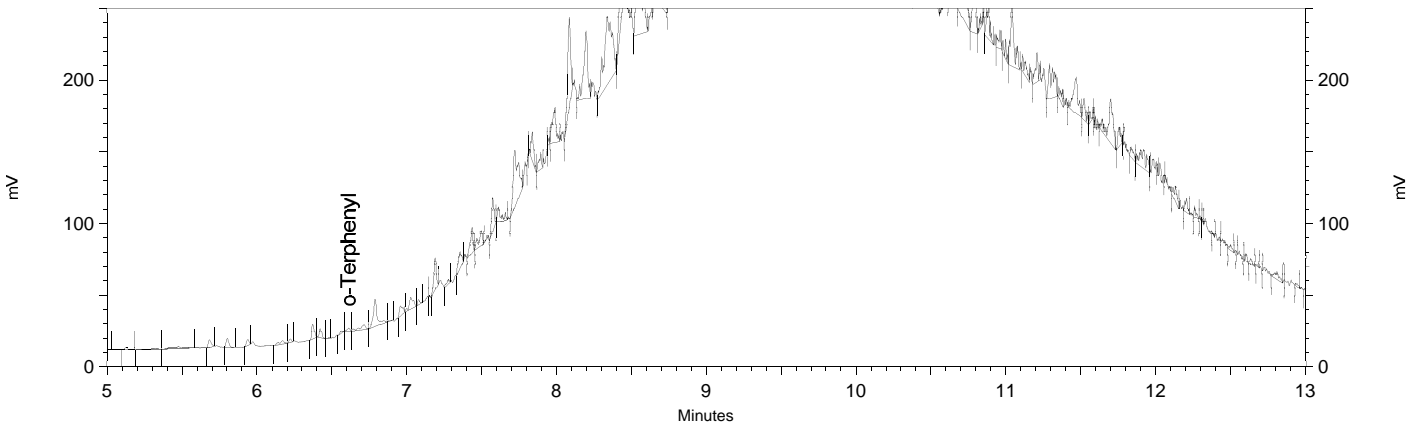
Sample Name: ical,s36951,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a033
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 3:23:45 AM
Analysis Date: 7/5/2018 10:30:38 AM
Instrument: GC17A Vial: 33 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a033
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/4/2018 3:23:45 AM
 Analysis Date: 7/4/2018 3:43:54 AM
 Instrument: GC17A Vial: 33 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.613	3276	0.038
Hexacosane	9.310	120175	1.510



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

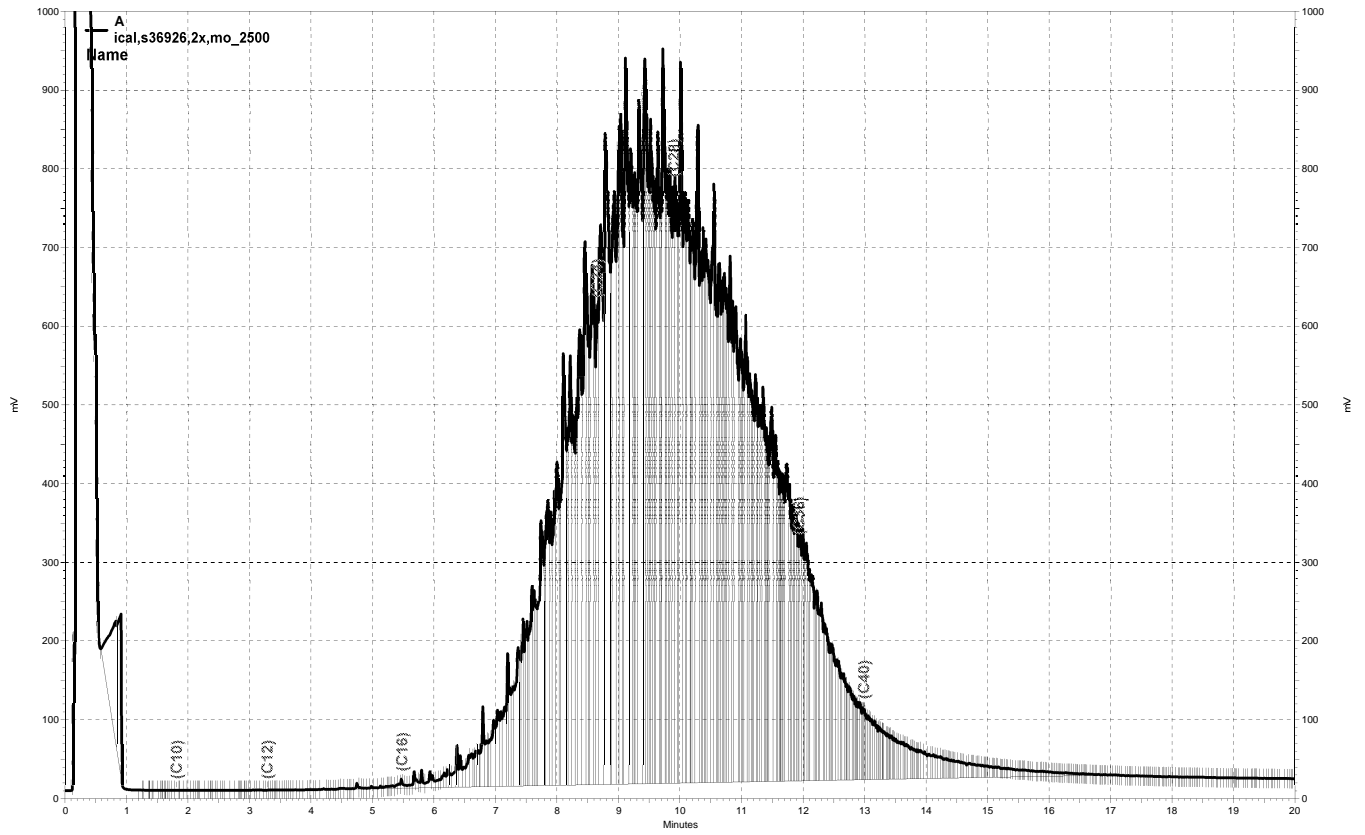
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a033_F3FB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a034, A

Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a034
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 3:51:33 AM
 Analysis Date: 7/5/2018 10:32:52 AM
 Instrument: GC17A Vial: 34 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	167406	0.000 CAL
DSL:10-22	15570434	0.000 CAL
DSL:10-24	38807684	0.000 CAL
DSL:10-28	94249144	0.000 CAL
DSL:12-24	38800932	0.000 CAL
DSL:12-28	94242392	0.000 CAL
DSL:16-24	38689964	0.000 CAL
MO:22-32	123487816	2500.000 CAL
MO:24-36	127243488	2500.000 CAL
MO:28-40	83087512	2500.000 CAL
BUNKC:10-40	170309232	0.000 CAL
BUNKC:12-40	170302480	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

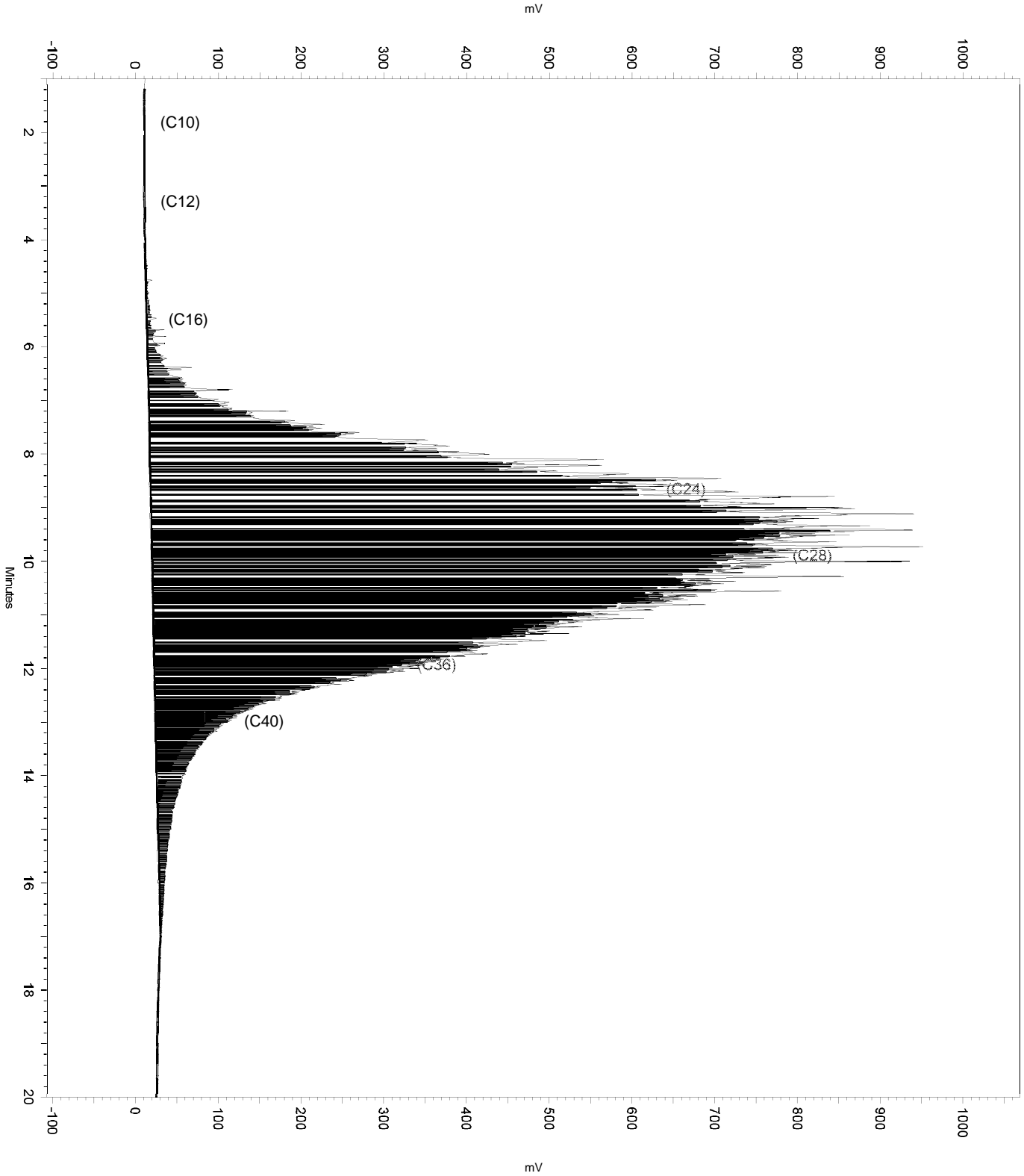
=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0       0
Yes Threshold            0       0      10
Yes Reset Baseline      0.3     0       0
Yes Force Peak Stop     1.616   0       0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a034
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Reset Baseline      16.993  0       0
  
```


Sample Name: ical,s36926,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a034
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 3:51:33 AM
Analysis Date: 7/5/2018 10:32:52 AM
Instrument: GC17A Vial: 34 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a034
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 3:51:33 AM
 Analysis Date: 7/5/2018 10:31:04 AM
 Instrument: GC17A Vial: 34 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	205540	0.000 CAL
DSL:10-22	15837155	0.000 CAL
DSL:10-24	39180348	0.000 CAL
DSL:10-28	94839560	0.000 CAL
DSL:12-24	39173596	0.000 CAL
DSL:12-28	94832808	0.000 CAL
DSL:16-24	39032028	0.000 CAL
MO:22-32	124063904	2500.000 CAL
MO:24-36	127965088	2500.000 CAL
MO:28-40	83901616	2500.000 CAL
BUNKC:10-40	171682256	0.000 CAL
BUNKC:12-40	171675504	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

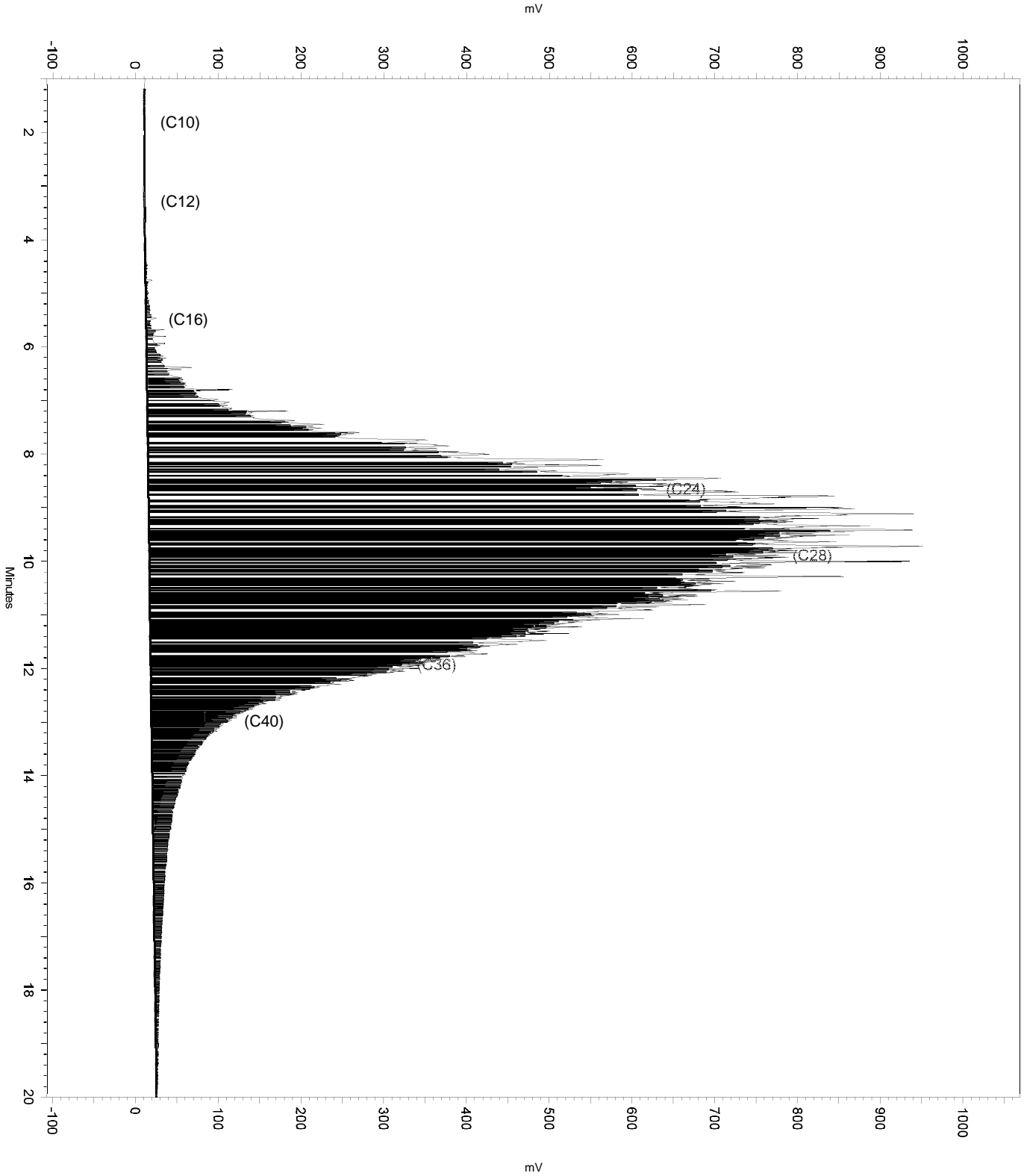
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0          10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a034
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

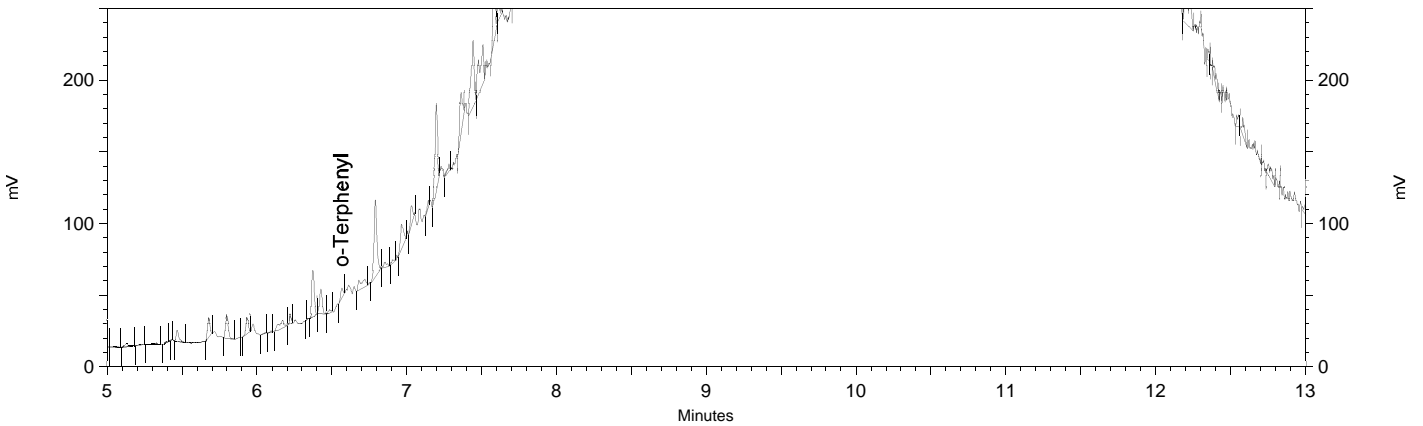
Sample Name: ical,s36926,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a034
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 3:51:33 AM
Analysis Date: 7/5/2018 10:31:04 AM
Instrument: GC17A Vial: 34 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a034
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/4/2018 3:51:33 AM
 Analysis Date: 7/4/2018 4:11:41 AM
 Instrument: GC17A Vial: 34 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.567	7079	0.082
Hexacosane	9.333	305456	3.837



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

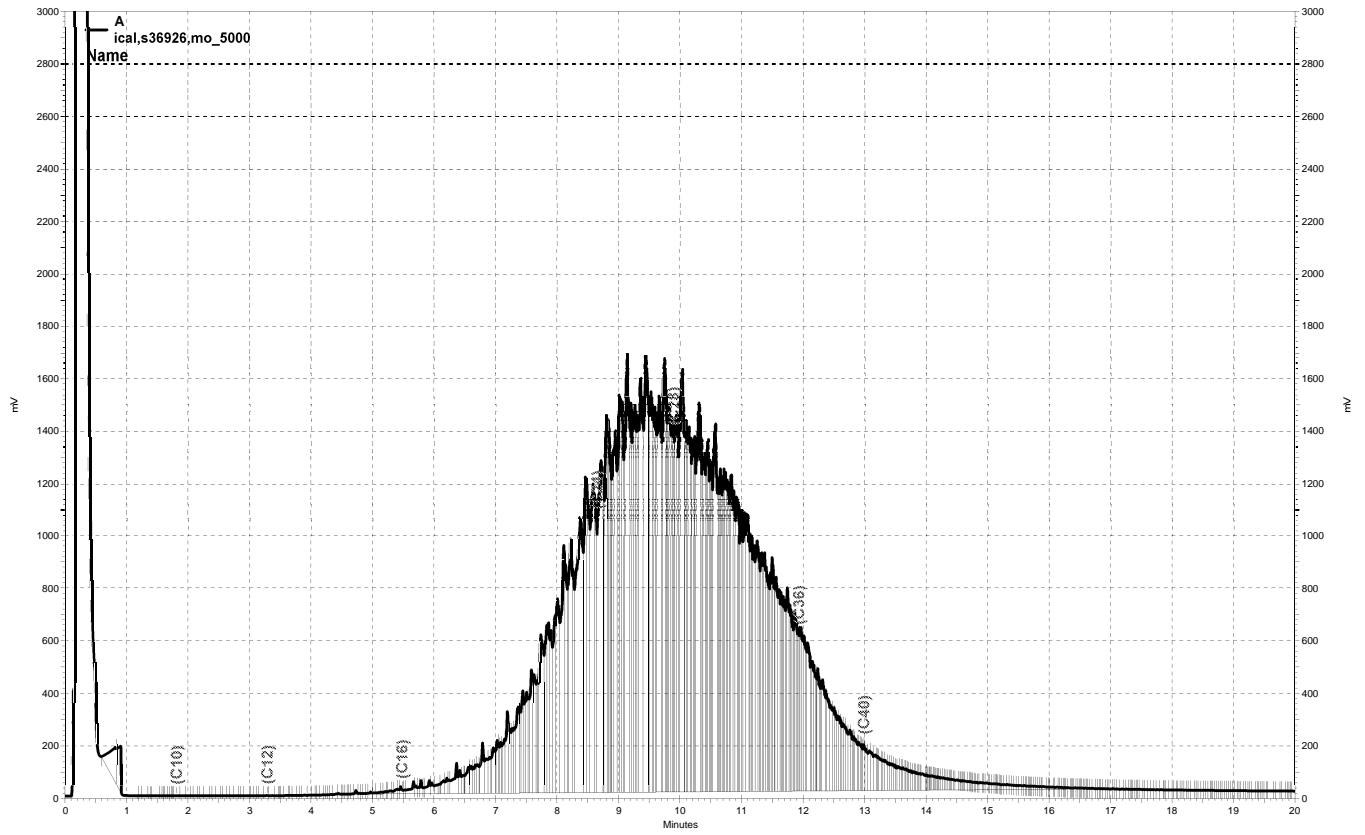
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0       20     0
Yes Shoulder Sensitivity 0       20    100
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a034_F3FC.tmp
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a035, A

Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a035
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 4:19:12 AM
 Analysis Date: 7/5/2018 10:32:58 AM
 Instrument: GC17A Vial: 35 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	468075	0.000 CAL
DSL:10-22	30961356	0.000 CAL
DSL:10-24	72039296	0.000 CAL
DSL:10-28	175683120	0.000 CAL
DSL:12-24	72026192	0.000 CAL
DSL:12-28	175670032	0.000 CAL
DSL:16-24	71710688	0.000 CAL
MO:22-32	228640256	5000.000 CAL
MO:24-36	242961072	5000.000 CAL
MO:28-40	157823904	5000.000 CAL
BUNKC:10-40	320326528	0.000 CAL
BUNKC:12-40	320313408	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

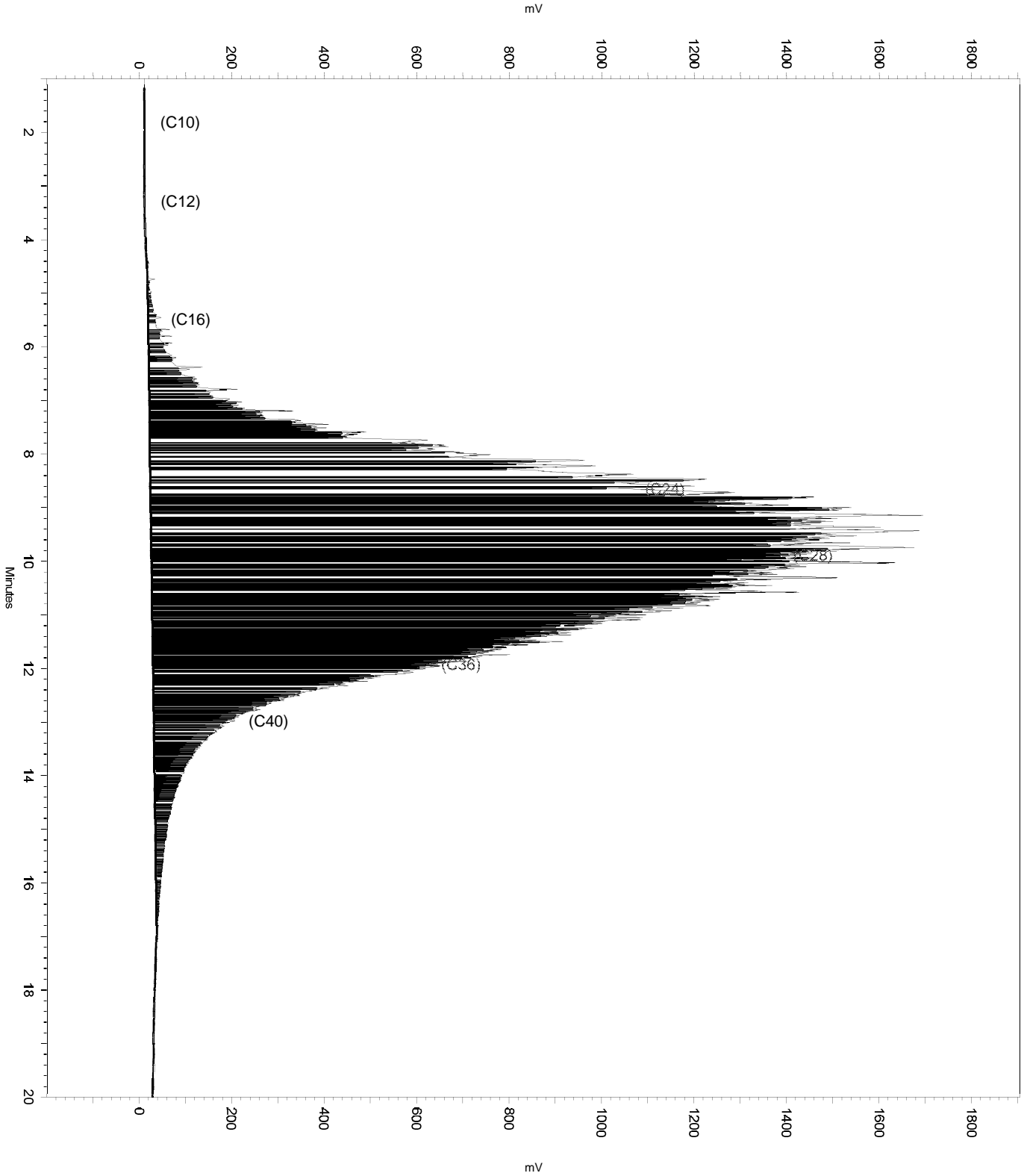
=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0       0
Yes Threshold            0       0      10
Yes Reset Baseline      0.3     0       0
Yes Force Peak Stop     1.616   0       0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a035
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Move BL Stop        4.892  16.973  0
  
```

Sample Name: ical,s36926,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a035
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 4:19:12 AM
Analysis Date: 7/5/2018 10:32:58 AM
Instrument: GC17A Vial: 35 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a035
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 4:19:12 AM
 Analysis Date: 7/5/2018 10:31:29 AM
 Instrument: GC17A Vial: 35 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	168915	0.000 CAL
DSL:10-22	5282567	0.000 CAL
DSL:10-24	18358324	0.000 CAL
DSL:10-28	45869748	0.000 CAL
DSL:12-24	18345216	0.000 CAL
DSL:12-28	45856636	0.000 CAL
DSL:16-24	18223944	0.000 CAL
MO:22-32	49758176	5000.000 CAL
MO:24-36	45973848	5000.000 CAL
MO:28-40	16590375	5000.000 CAL
BUNKC:10-40	61095296	0.000 CAL
BUNKC:12-40	61082184	0.000 CAL
?	0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

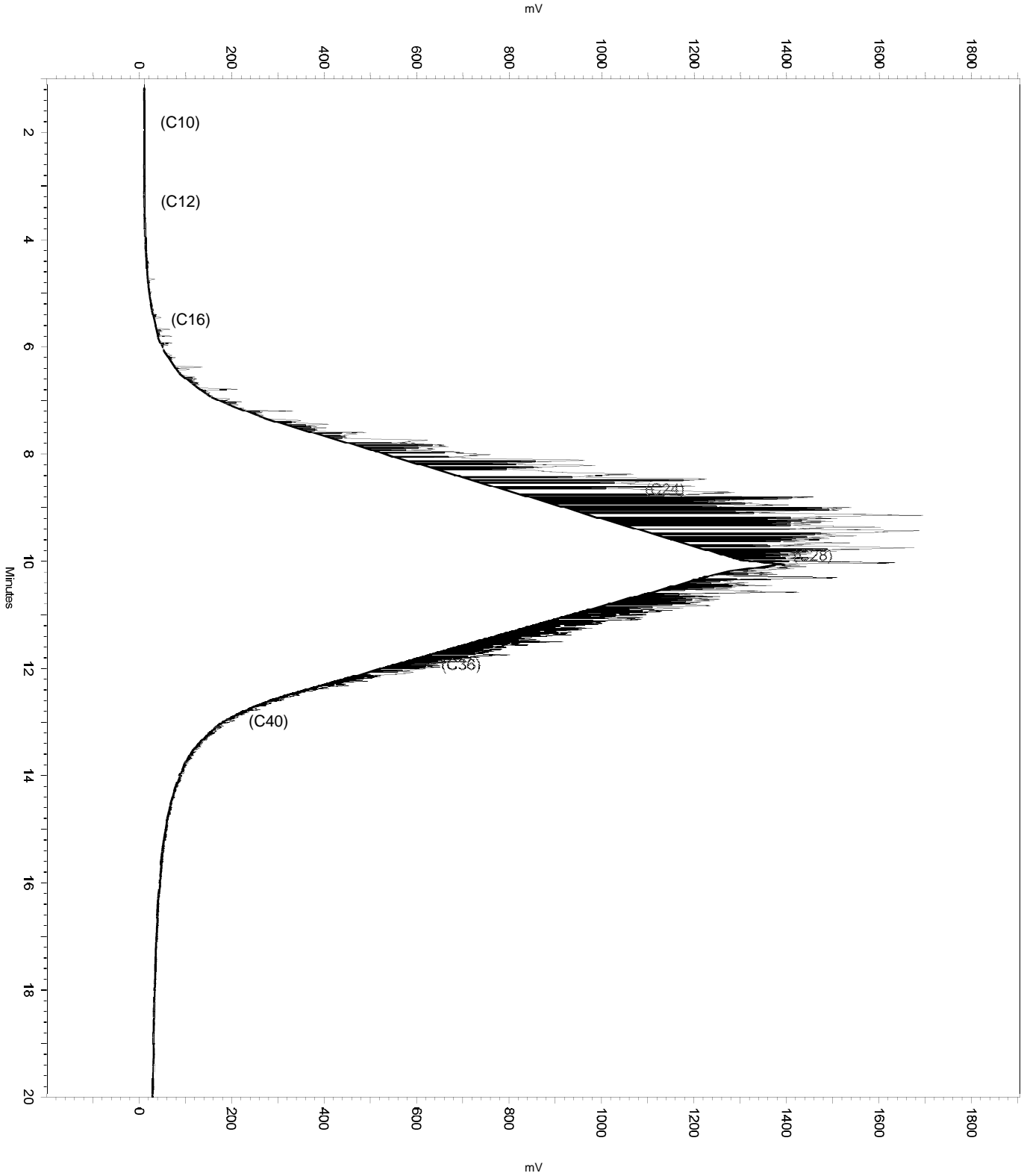
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a035
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

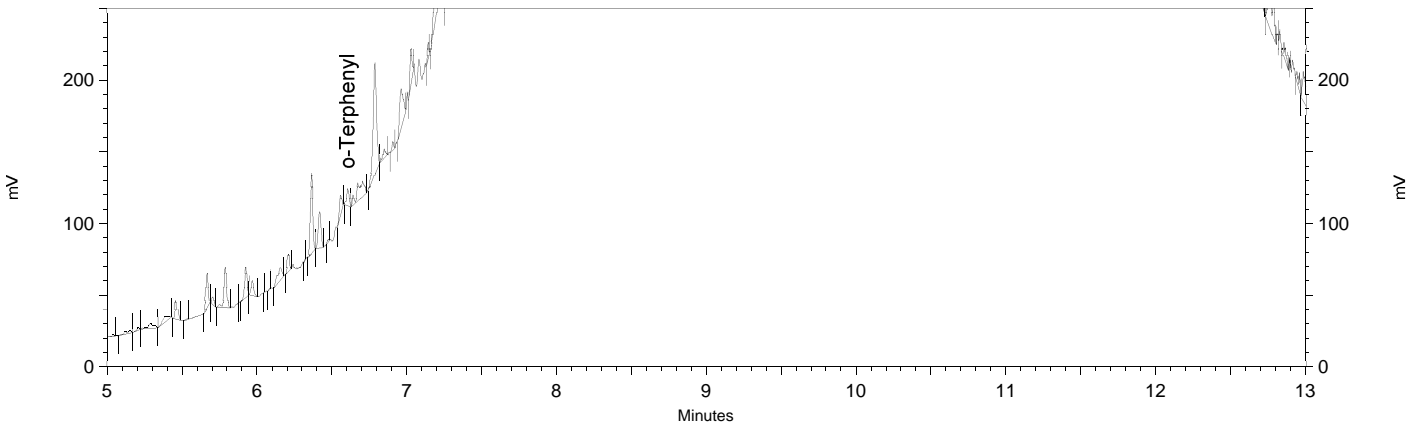

Sample Name: ical,s36926,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a035
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 4:19:12 AM
Analysis Date: 7/5/2018 10:31:29 AM
Instrument: GC17A Vial: 35 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a035
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/4/2018 4:19:12 AM
 Analysis Date: 7/4/2018 4:39:21 AM
 Instrument: GC17A Vial: 35 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.605	13624	0.157
Hexacosane	9.360	422166	5.304



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```
=====
```

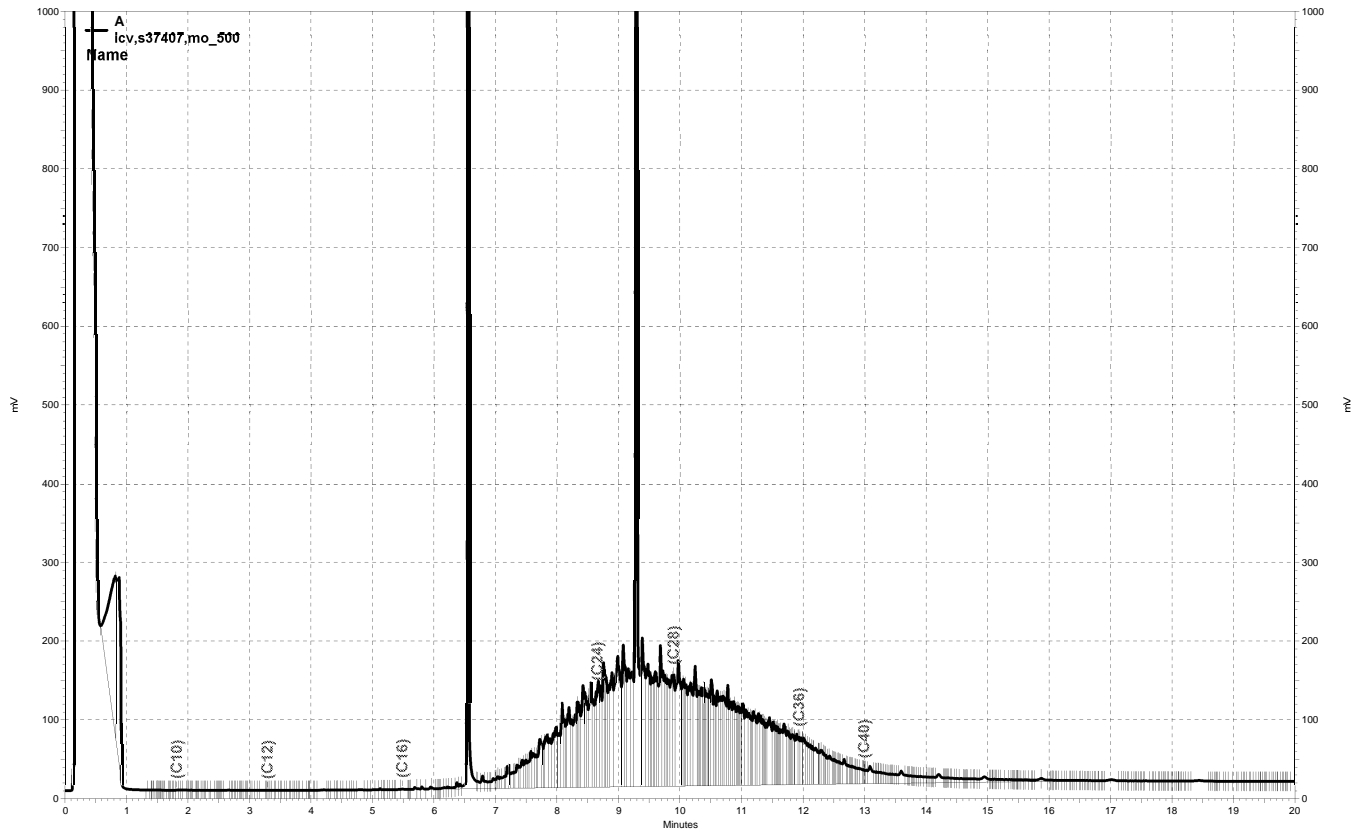
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a035_F3FD.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a037, A

Sample Name: icv,s37407,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a037
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 5:14:53 AM
 Analysis Date: 7/5/2018 10:37:35 AM
 Instrument: GC17A Vial: 37 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	19812	0.245
DSL:10-22	6349223	100.571
DSL:10-24	10630351	164.293
DSL:10-28	23964272	366.685
DSL:12-24	10624777	191.105
DSL:12-28	23958700	425.957
DSL:16-24	10614142	363.671
MO:22-32	26017036	546.568
MO:24-36	26212668	533.057
MO:28-40	14705984	456.060
BUNKC:10-40	38004728	1242.423
BUNKC:12-40	37999160	1279.105

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

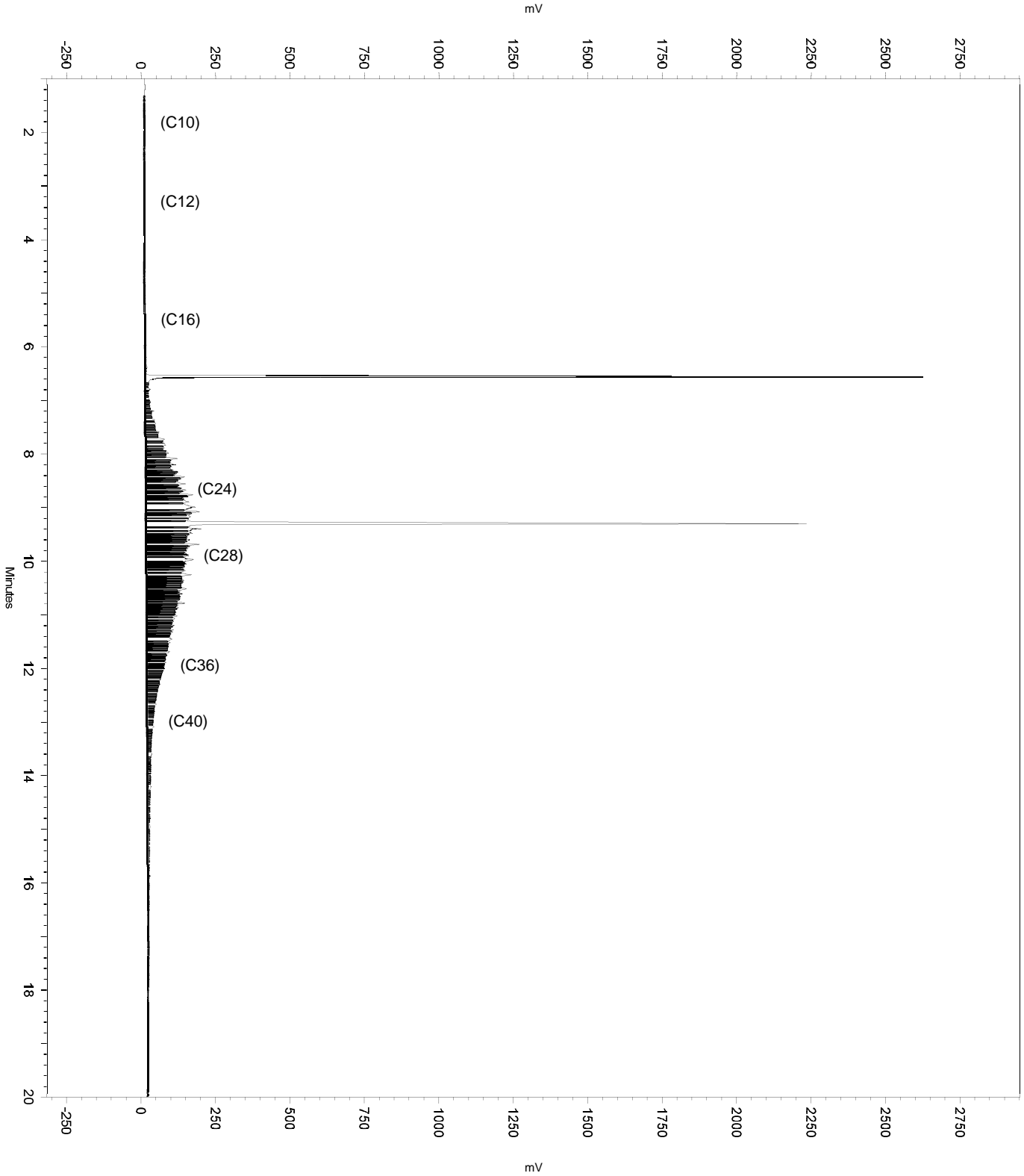
Manual Integration Fixes

 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a037

```

Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.467     6.759     0
No Manual Baseline      9.248     9.442     0
No Split Peak           9.341     0          0
Yes Reset Baseline     16.815    0          0
  
```

Sample Name: icv_s37407_mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a037
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 5:14:53 AM
Analysis Date: 7/5/2018 10:37:35 AM
Instrument: GC17A Vial: 37 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: icv,s37407,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a037
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/4/2018 5:14:53 AM
 Analysis Date: 7/5/2018 10:37:19 AM
 Instrument: GC17A Vial: 37 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	20150	0.249
DSL:10-22	6409825	101.531
DSL:10-24	10728301	165.806
DSL:10-28	24144166	369.438
DSL:12-24	10722727	192.866
DSL:12-28	24138590	429.156
DSL:16-24	10712092	367.027
MO:22-32	26243716	551.330
MO:24-36	26503880	538.979
MO:28-40	15046521	466.620
BUNKC:10-40	38518612	1259.222
BUNKC:12-40	38513036	1296.403

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

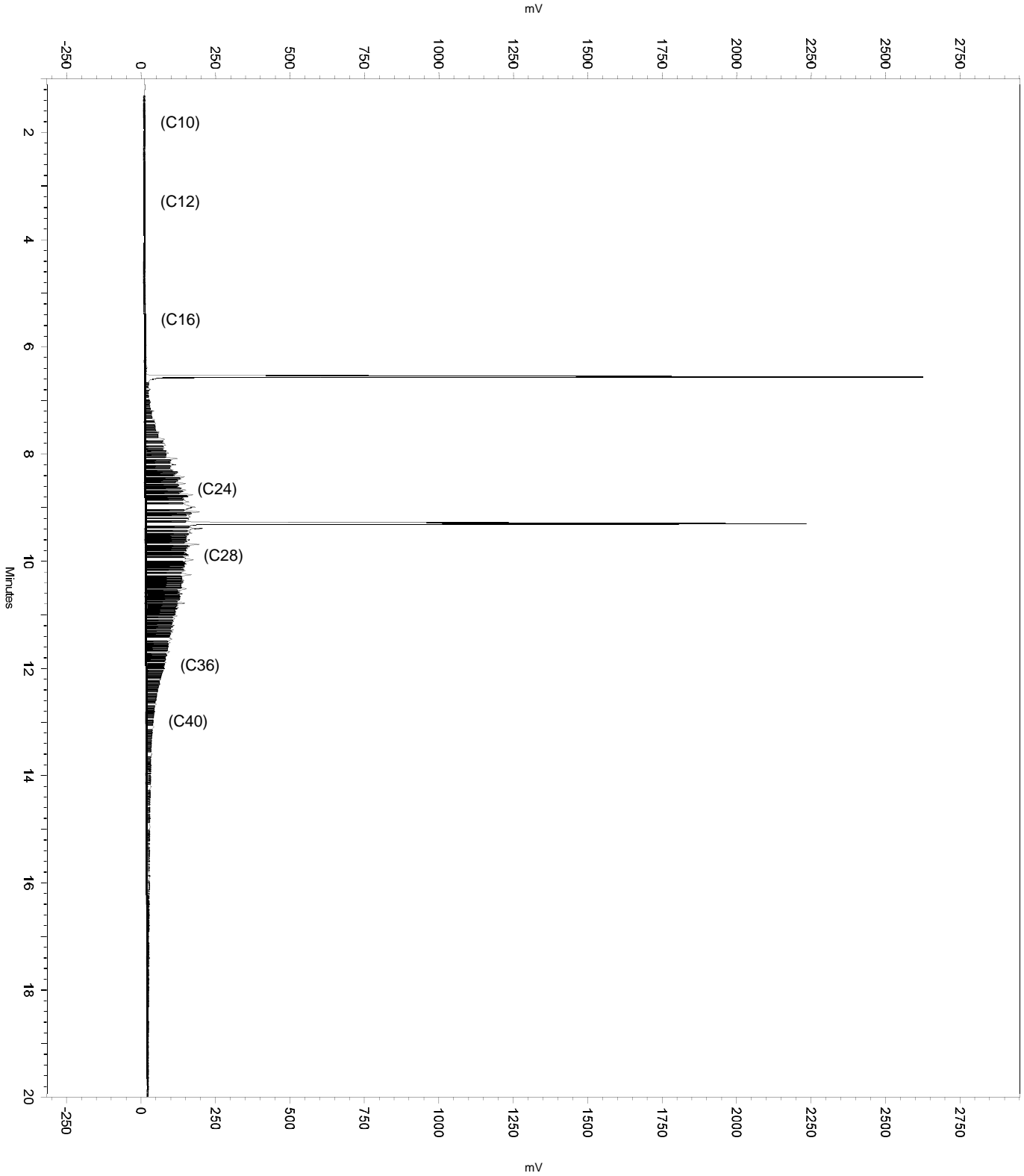
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a037
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.467     6.759     0
No Manual Baseline      9.248     9.442     0
No Split Peak           9.341      0          0
  
```

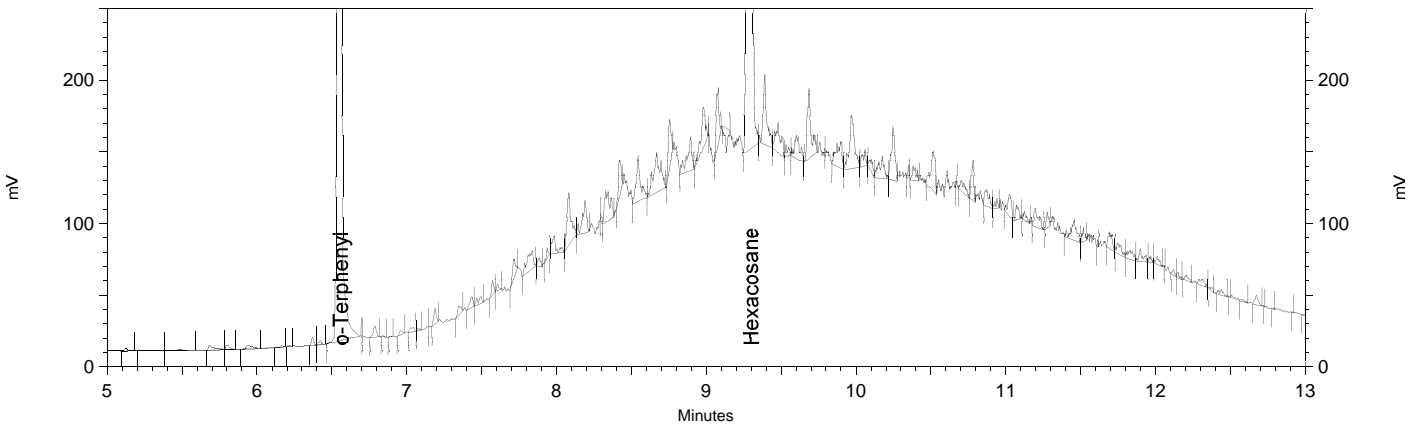
Sample Name: icv,s37407,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a037
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/4/2018 5:14:53 AM
Analysis Date: 7/5/2018 10:37:19 AM
Instrument: GC17A Vial: 37 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: icv,s37407,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a037
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184.met
 Run Date: 7/4/2018 5:14:53 AM
 Analysis Date: 7/4/2018 5:35:01 AM
 Instrument: GC17A Vial: 37 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.563	3724585	42.887
Hexacosane	9.300	3309734	41.579



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0       20    100
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

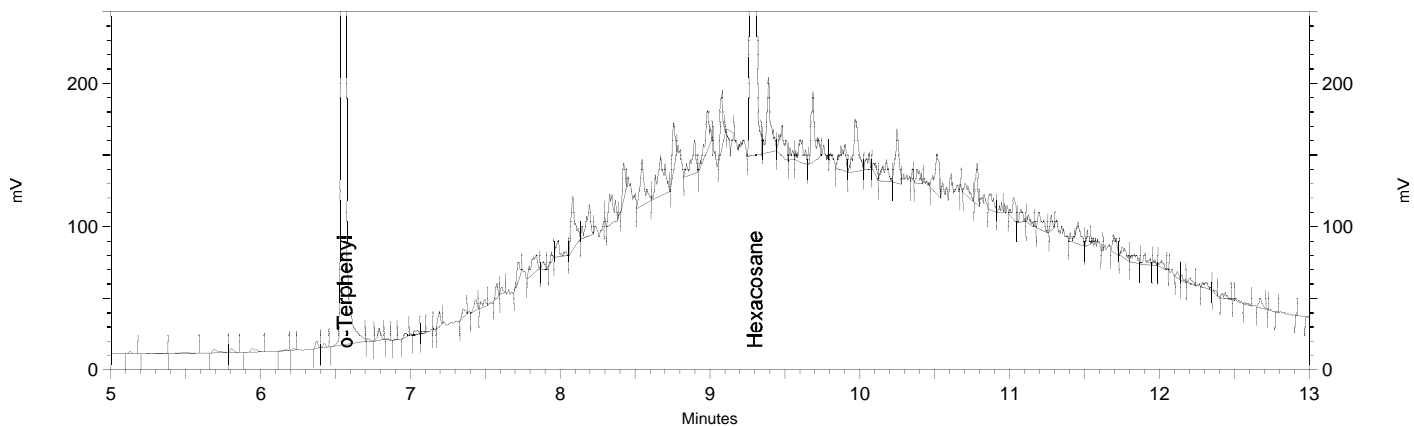
=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\184a037_F3FF.tmp
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```


Sample Name: icv,s37407,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a037
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/4/2018 5:14:53 AM
 Analysis Date: 7/5/2018 10:36:09 AM
 Instrument: GC17A Vial: 37 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.563	3738711	99.838
Hexacosane	9.300	3320454	95.967



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a037

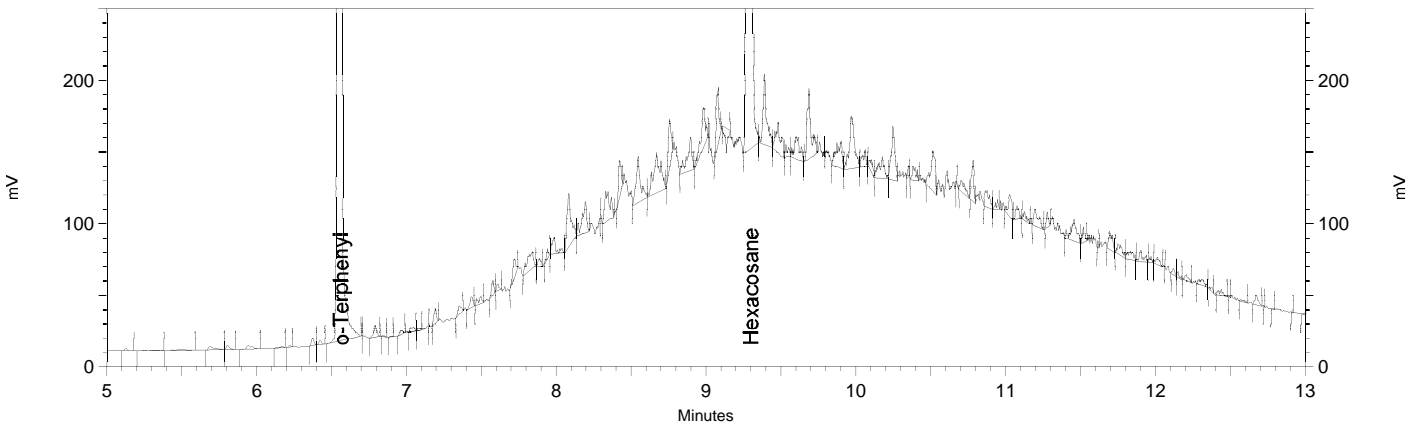
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.467	6.759	0
Yes	Manual Baseline	9.248	9.442	0
Yes	Split Peak	9.341	0	0

Sample Name: icv,s37407,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\184a037
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\184.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/4/2018 5:14:53 AM
 Analysis Date: 7/5/2018 10:34:37 AM
 Instrument: GC17A Vial: 37 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.563	3724585	99.461
Hexacosane	9.300	3309734	95.657



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Carbon Marker Run

Inst : GC17A
 Seqnum : 178269582002
 Standards: S36439

Run Name : C8-C40
 File : 187a002

IDF : 1.0
 Time : 06-JUL-2018 05:29

Analyte	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	1.913	+/- 4.5s (0.075m)	1.838 - 1.988
C12 - n-Dodecane	3.31	+/- 4.5s (0.075m)	3.235 - 3.385
C14 - n-Tetradecane	4.472	+/- 4.5s (0.075m)	4.397 - 4.547
C16 - n-Hexadecane	5.487	+/- 4.5s (0.075m)	5.412 - 5.562
C18 - n-Octadecane	6.39	+/- 4.5s (0.075m)	6.315 - 6.465
C20 - n-Eicosane	7.213	+/- 4.5s (0.075m)	7.138 - 7.288
C22 - n-Docosane	7.967	+/- 4.5s (0.075m)	7.892 - 8.042
C24 - n-Tetracosane	8.657	+/- 4.5s (0.075m)	8.582 - 8.732
C28 - n-Octacosane	9.895	+/- 4.5s (0.075m)	9.820 - 9.970
C30 - n-Triacontane	10.453	+/- 4.5s (0.075m)	10.378 - 10.528
C32 - n-Dotriacontane	10.975	+/- 4.5s (0.075m)	10.900 - 11.050
C34 - n-Tetratriacontane	11.47	+/- 4.5s (0.075m)	11.395 - 11.545
C36 - n-Hexatriacontane	11.937	+/- 4.5s (0.075m)	11.862 - 12.012
C40 - n-Tetracontane	12.992	+/- 4.5s (0.075m)	12.917 - 13.067

Carbon Range	Range Start	Range Stop
JP-5 C10-C16	1.838	5.562
Diesel C10-C22	1.838	8.042
Diesel C10-C24	1.838	8.732
Diesel C10-C28	1.838	9.970
Diesel C12-C24	3.235	8.732
Diesel C12-C28	3.235	9.970
Diesel C16-C24	5.412	8.732
Motor Oil C22-C32	7.892	11.050
Motor Oil C24-C36	8.582	12.012
Motor Oil C28-C40	9.820	13.067
Bunker C C10-C40	1.838	13.067
Bunker C C12-C40	3.235	13.067

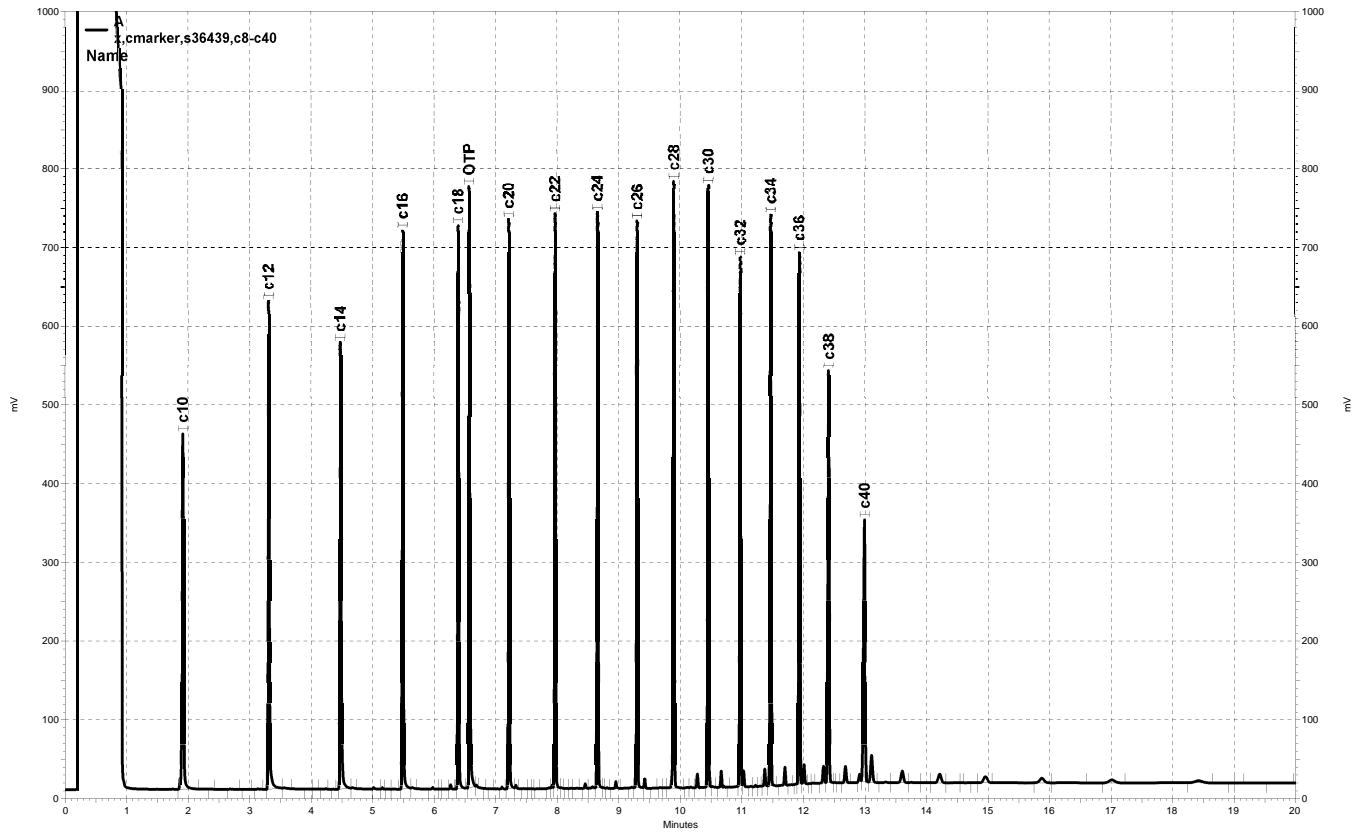
EZChrom method retention times successfully validated.

Analyst: CB1

Date: 07/06/18

Reviewer: EAH

Date: 07/06/18



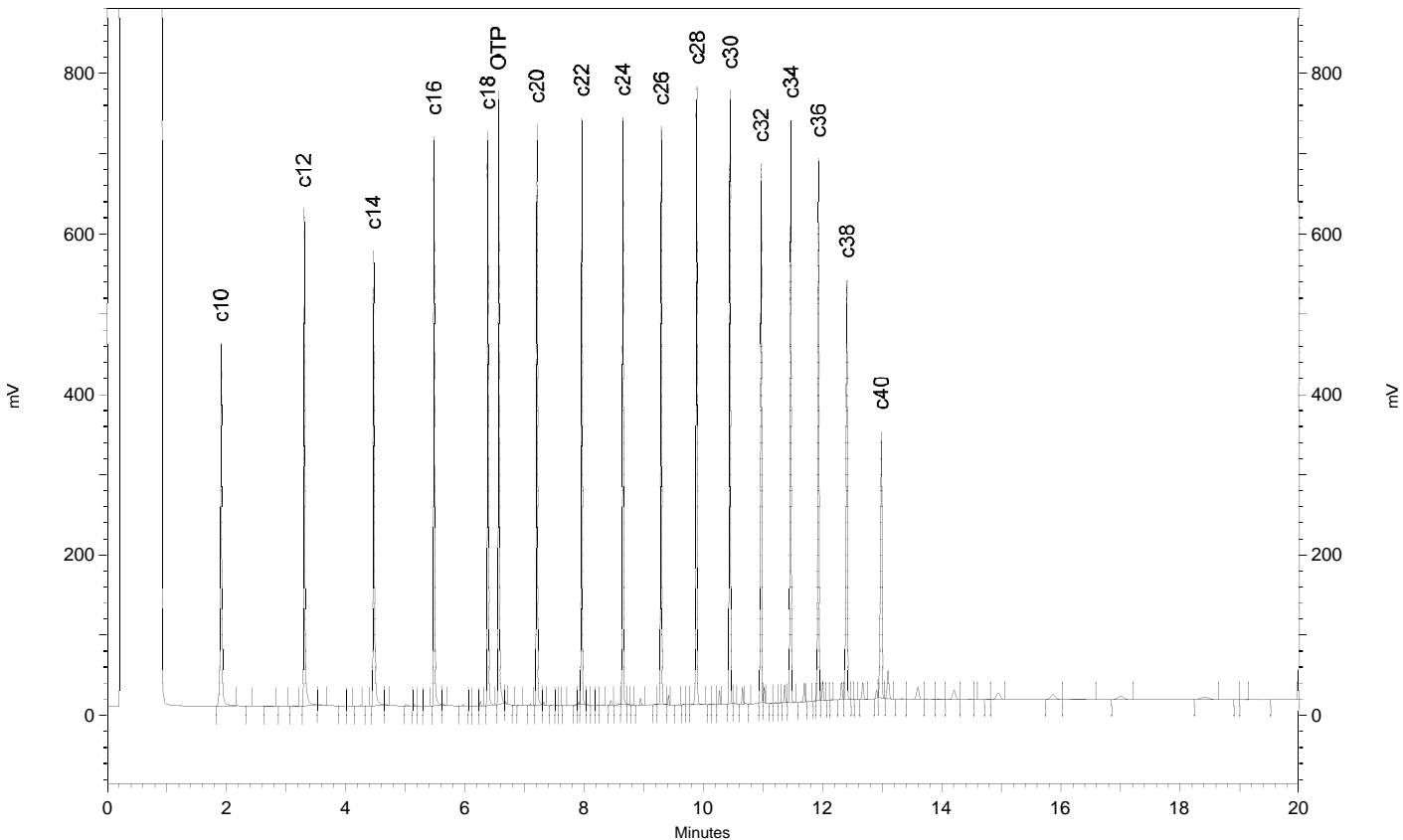
\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a002, A

Sample Name: x,cmarker,s36439,c8-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a002
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\187.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\cm184b.met
 Run Date: 7/6/2018 5:29:46 AM
 Analysis Date: 7/6/2018 7:37:41 AM
 Instrument: GC17A Vial: 2 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	1.913	797428	0.000
c12	3.310	788993	0.000
c14	4.472	807269	0.000
c16	5.487	827850	0.000
c18	6.390	830408	0.000
OTP	6.572	913611	0.000
c20	7.213	839739	0.000
c22	7.967	848683	0.000
c24	8.657	819832	0.000
c26	9.298	845251	0.000
c28	9.895	885983	0.000
c30	10.453	870116	0.000
c32	10.975	845292	0.000
c34	11.470	847715	0.000
c36	11.937	822059	0.000
c38	12.412	777426	0.000
c40	12.992	620295	0.000

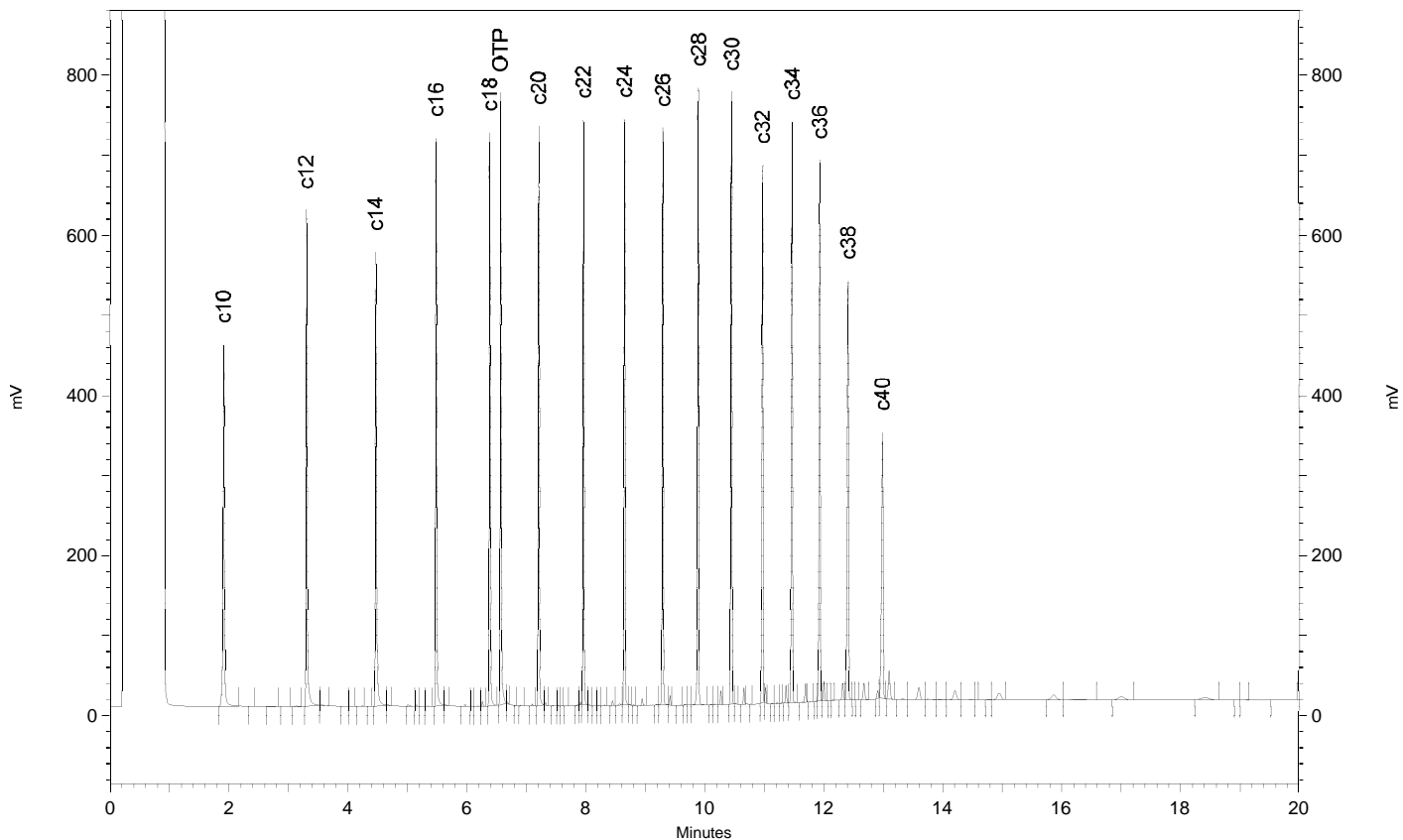


Sample Name: x,cmarker,s36439,c8-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a002
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\187.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\cm187.met
Run Date: 7/6/2018 5:29:46 AM
Analysis Date: 7/6/2018 7:43:00 AM
Instrument: GC17A Vial: 2 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	1.913	797428	0.000
c12	3.310	788993	0.000
c14	4.472	807269	0.000
c16	5.487	827850	0.000
c18	6.390	830408	0.000
OTP	6.572	913611	0.000
c20	7.213	839739	0.000
c22	7.967	848683	0.000
c24	8.657	819832	0.000
c26	9.298	845251	0.000
c28	9.895	885983	0.000
c30	10.453	870116	0.000
c32	10.975	845292	0.000
c34	11.470	847715	0.000
c36	11.937	822059	0.000
c38	12.412	777426	0.000
c40	12.992	620295	0.000



Sample Name: x,cmarker,s36439,c8-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a002
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\187.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
 Run Date: 7/6/2018 5:29:46 AM
 Analysis Date: 7/6/2018 7:43:24 AM
 Instrument: GC17A Vial: 2 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	3310655	40.904
DSL:10-22	6861109	108.679
DSL:10-24	7714161	119.223
DSL:10-28	9501685	145.388
DSL:12-24	6907240	124.238
DSL:12-28	8694764	154.583
DSL:16-24	5239065	179.506
MO:22-32	5323793	111.843
MO:24-36	6206302	126.210
MO:28-40	6165601	191.207
BUNKC:10-40	14778583	483.131
BUNKC:12-40	13971662	470.306

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

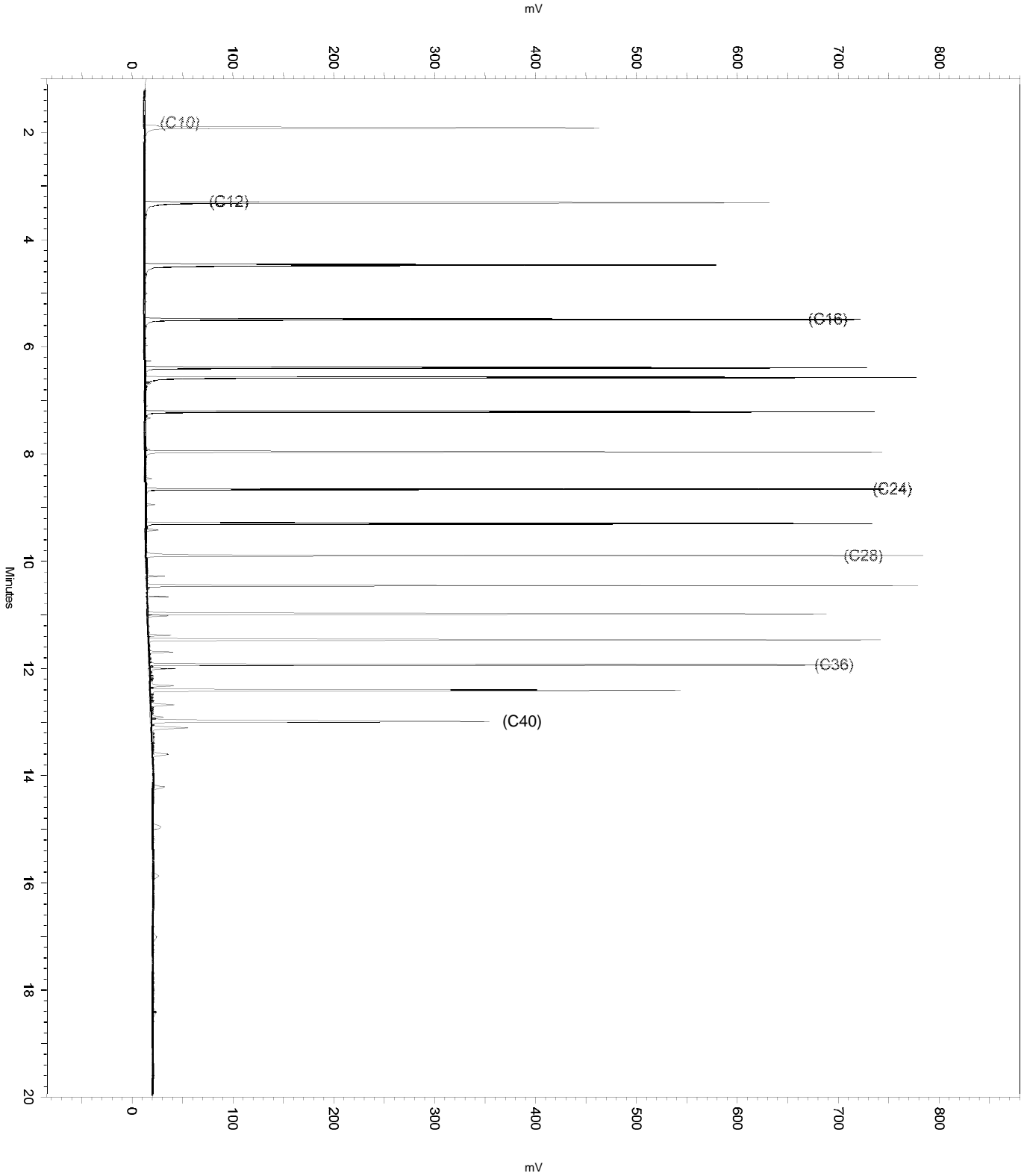
=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0       0
Yes Threshold            0       0      10
Yes Reset Baseline      0.3     0       0
Yes Force Peak Stop     1.616   0       0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a002
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Reassign Peak       1.81   1.944   0
Yes Manual Peak         1.836   2.168   0
  
```

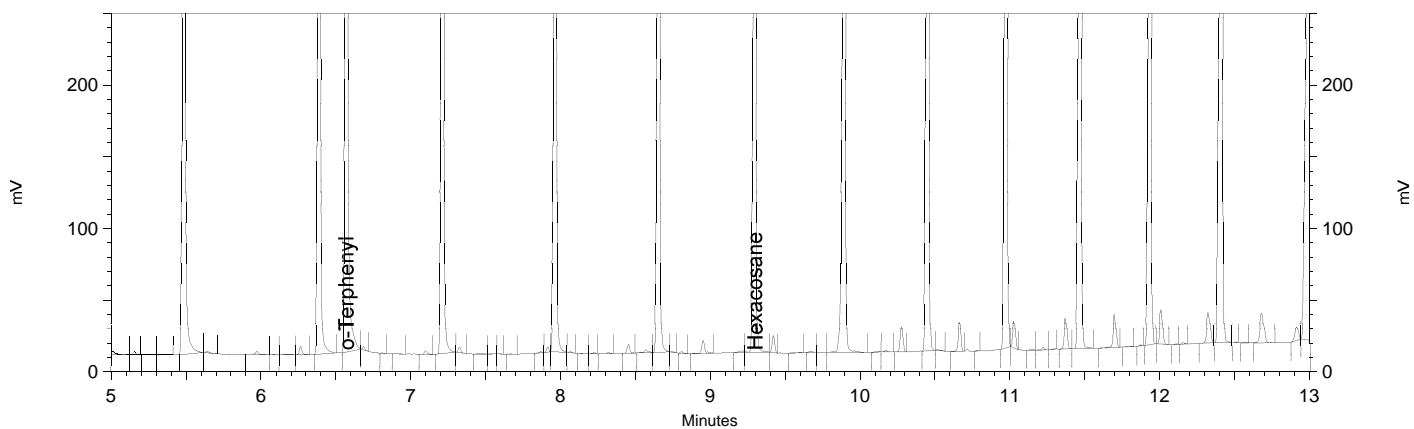
Sample Name: x,cmarker,s36439,c8-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a002
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\187.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh184b.met
Run Date: 7/6/2018 5:29:46 AM
Analysis Date: 7/6/2018 7:43:24 AM
Instrument: GC17A Vial: 2 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: x,cmarker,s36439,c8-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\187a002
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\187.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/6/2018 5:29:46 AM
 Analysis Date: 7/6/2018 5:49:55 AM
 Instrument: GC17A Vial: 2 Operator: lims2k3\teh
 Sample Amount: 1

GC17
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.572	913611	11.782
Hexacosane	9.298	845251	11.799



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10042\187a002_F424.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

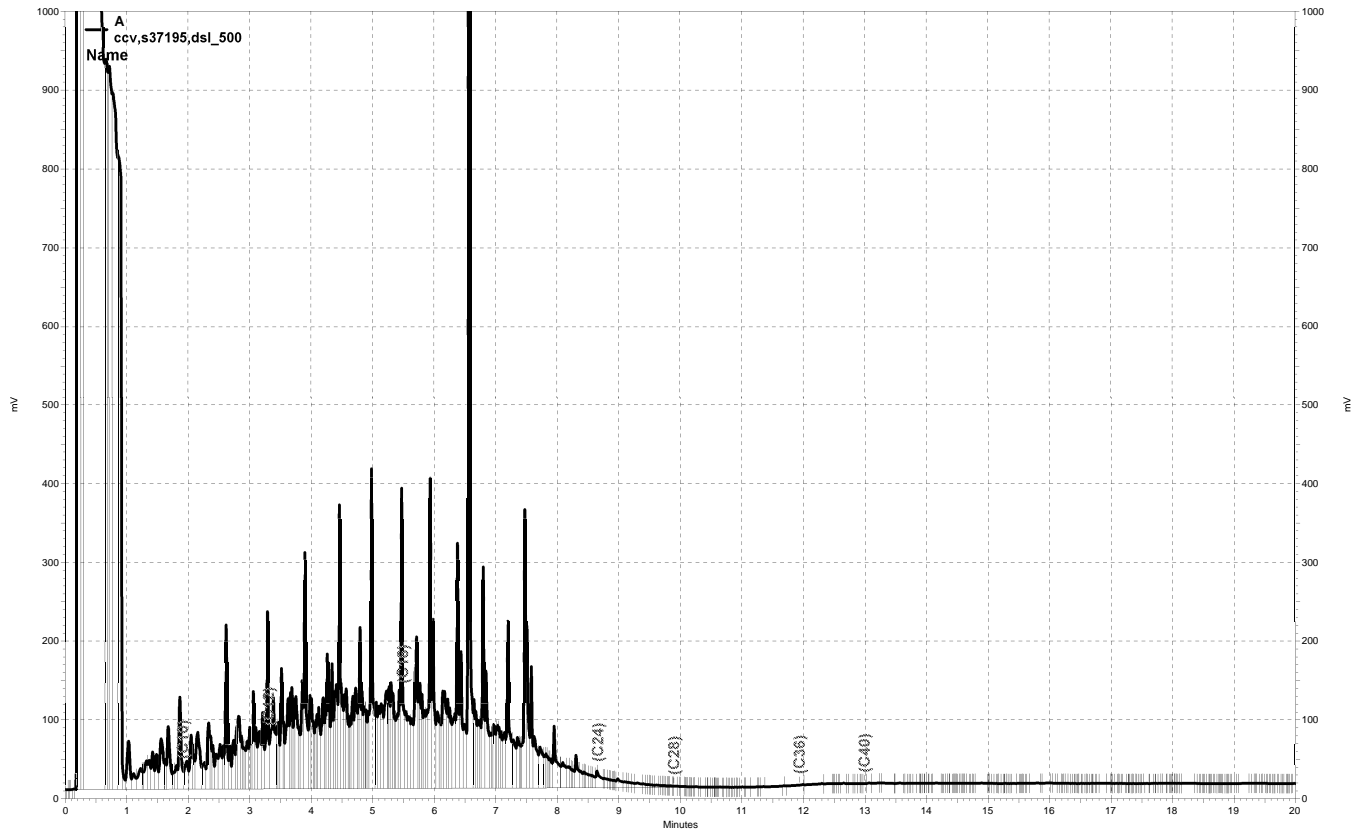
ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : DSL_500 IDF : 1.0
 Seqnum : 178275372003 File : 191a003 Time : 10-JUL-2018 06:28
 Standards: S37195

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	178265382002	03-JUL-2018	64704	67682	500.0	523.0	mg/L	5	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	79195	50.00	51.07	mg/L	2	15	

CB1 07/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/10/18 Reviewer: EAH Date: 07/10/18



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a003, A

Sample Name: **ccv,s37195,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a003
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 6:28:18 AM
 Analysis Date: 7/10/2018 7:51:09 AM
 Instrument: GC17A Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	19679056	243.140
DSL:10-22	36927336	584.925
DSL:10-24	37800692	584.212
DSL:10-28	38199564	584.504
DSL:12-24	33072784	594.870
DSL:12-28	33471648	595.086
DSL:16-24	19361248	663.373
MO:22-32	1605754	33.734
MO:24-36	546630	11.116
MO:28-40	68913	2.137
BUNKC:10-40	38251772	1250.498
BUNKC:12-40	33523848	1128.460

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

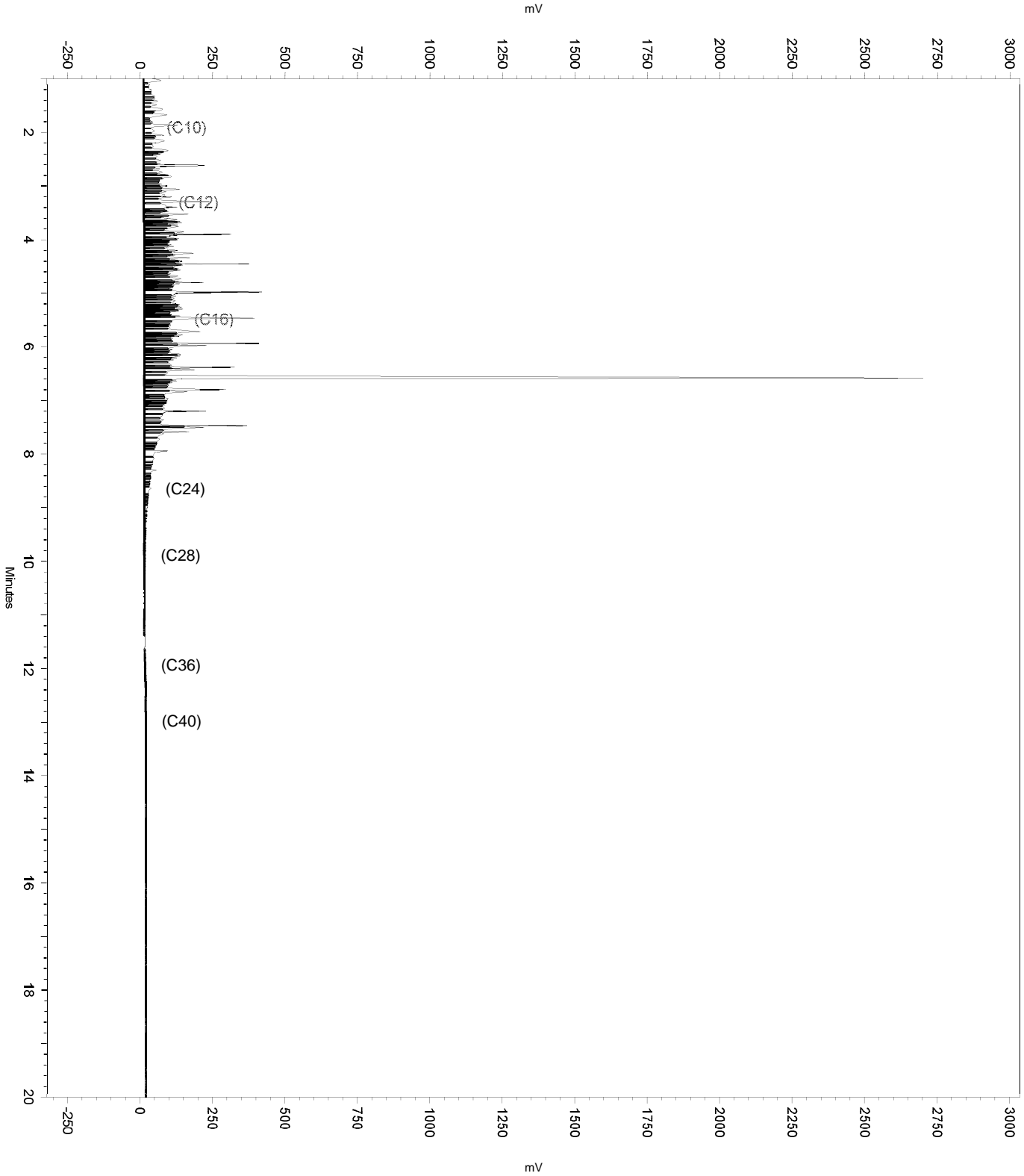
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a003
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Peak          6.525     6.888     0
No Split Peak           6.53      0          0
No Split Peak           6.598     0          0
Yes Move BL Start       10.448    0.056     0
  
```

Sample Name: ccv,s37195,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a003
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 6:28:18 AM
Analysis Date: 7/10/2018 7:51:09 AM
Instrument: GC17A Vial: 3 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: **ccv,s37195,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a003
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 6:28:18 AM
 Analysis Date: 7/10/2018 7:50:37 AM
 Instrument: GC17A Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	8816073	108.925
DSL:10-22	20844564	330.176
DSL:10-24	21086128	325.887
DSL:10-28	21121272	323.183
DSL:12-24	18844956	338.958
DSL:12-28	18880100	335.666
DSL:16-24	13029426	446.426
MO:22-32	427269	8.976
MO:24-36	72472	1.474
MO:28-40	33442	1.037
BUNKC:10-40	21153160	691.523
BUNKC:12-40	18911988	636.604

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

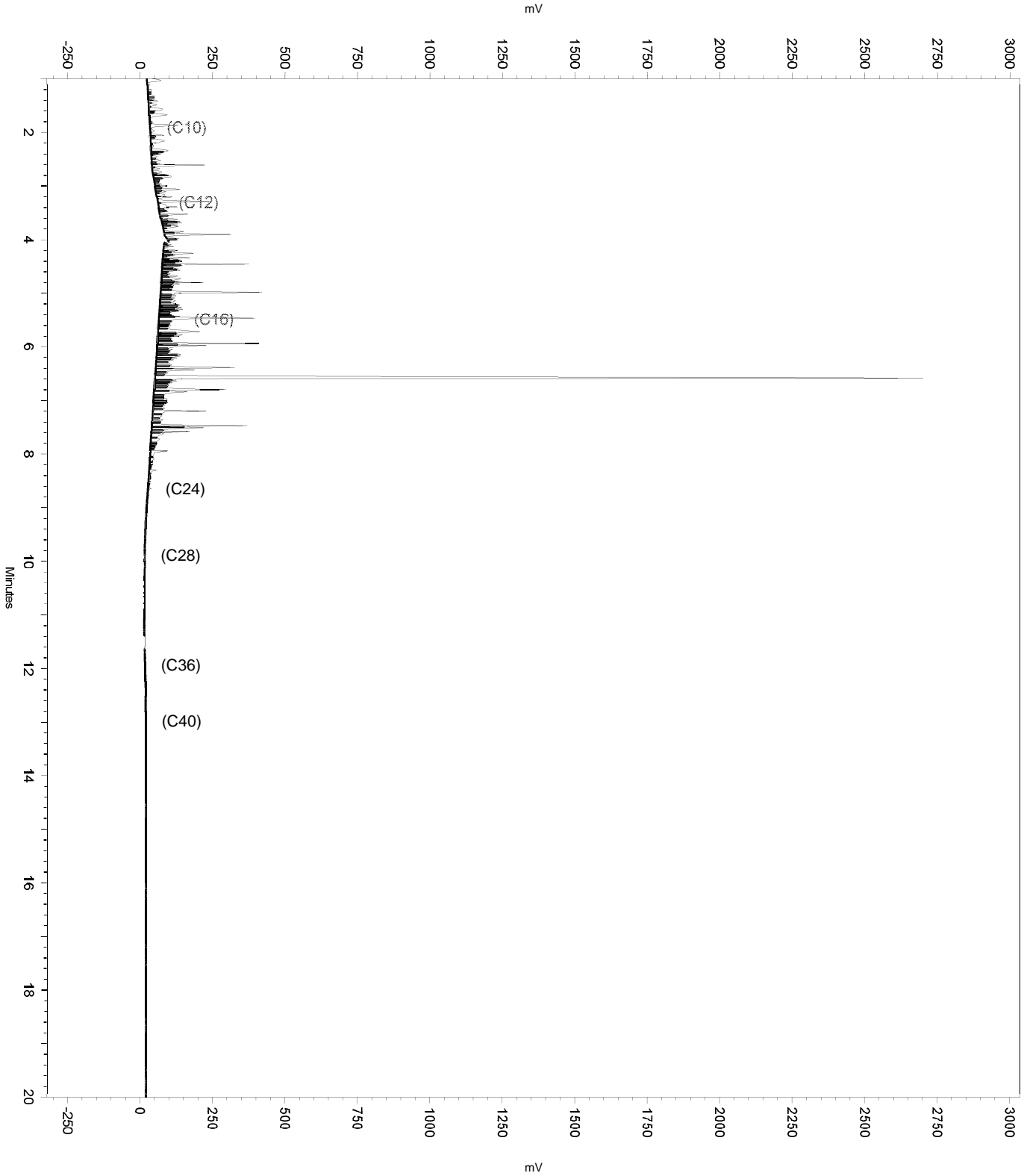
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a003
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Peak          6.525     6.888     0
No Split Peak           6.53      0          0
No Split Peak           6.598     0          0
  
```

Sample Name: ccv,s37195,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a003
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 6:28:18 AM
Analysis Date: 7/10/2018 7:50:37 AM
Instrument: GC17A Vial: 3 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

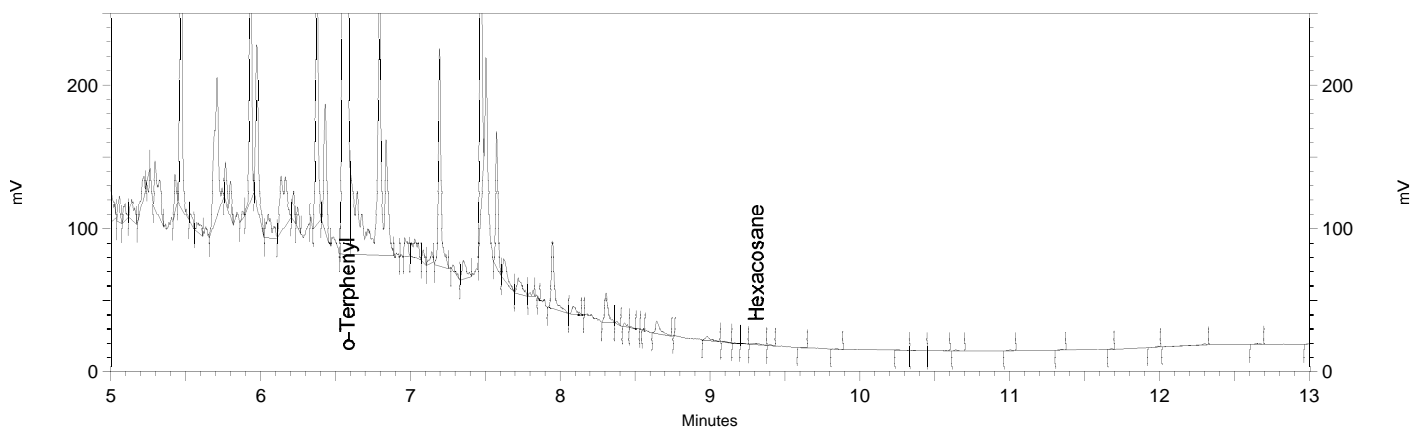


Sample Name: **ccv,s37195,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a003
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/10/2018 6:28:18 AM
 Analysis Date: 7/10/2018 7:49:19 AM
 Instrument: GC17A Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.578	3959762	51.066
Hexacosane	9.307	3487	0.049



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a003

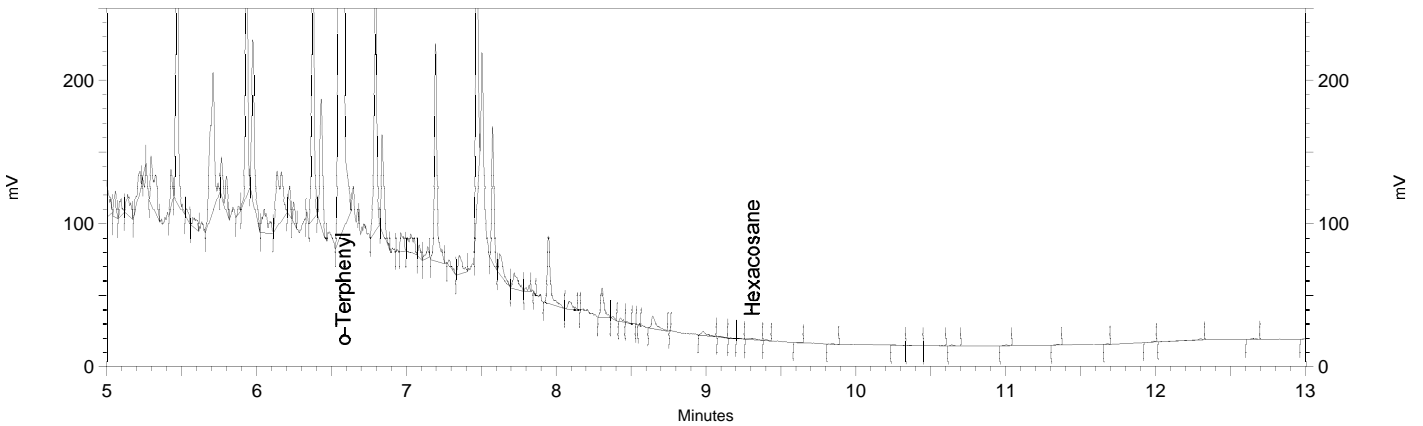
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.525	6.888	0
Yes	Split Peak	6.53	0	0
Yes	Split Peak	6.598	0	0

Sample Name: **ccv,s37195,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a003
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/10/2018 6:28:18 AM
 Analysis Date: 7/10/2018 7:48:57 AM
 Instrument: GC17A Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.578	3960545	51.076
Hexacosane	9.307	3487	0.049



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

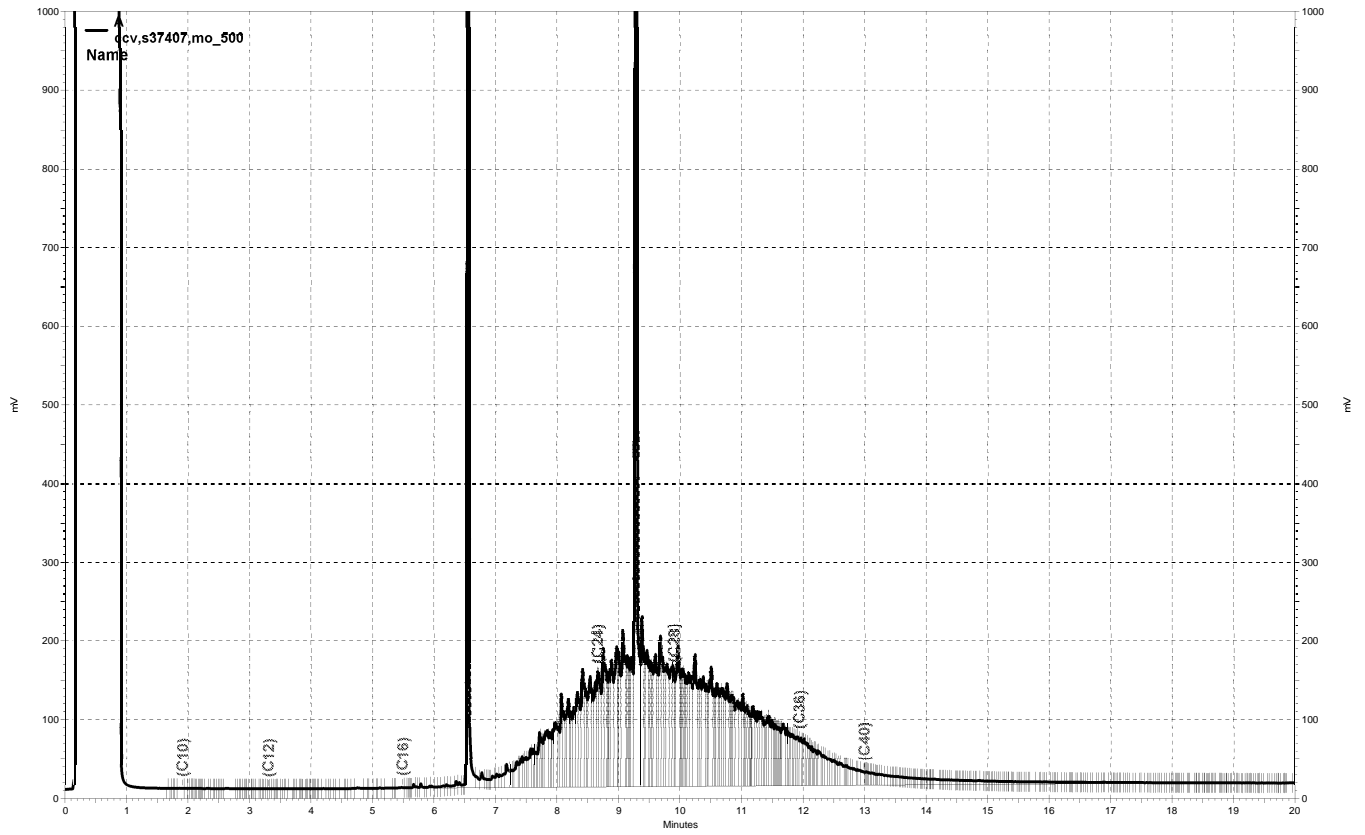
ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178275372004 File : 191a004 Time : 10-JUL-2018 06:56
 Standards: S37407

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	178265382003	04-JUL-2018	49174	50428	500.0	512.7	mg/L	3	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	81914	50.00	52.82	mg/L	6	15	

CB1 07/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/10/18 Reviewer: EAH Date: 07/12/18



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a004, A

Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a004
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 6:56:16 AM
 Analysis Date: 7/10/2018 7:51:15 AM
 Instrument: GC17A Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	26470	0.327
DSL:10-22	7164685	113.488
DSL:10-24	11719831	181.131
DSL:10-28	27208560	416.327
DSL:12-24	11713803	210.693
DSL:12-28	27202532	483.629
DSL:16-24	11700229	400.884
MO:22-32	28471360	598.128
MO:24-36	28799988	585.672
MO:28-40	15736783	488.027
BUNKC:10-40	41387724	1353.017
BUNKC:12-40	41381692	1392.966

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

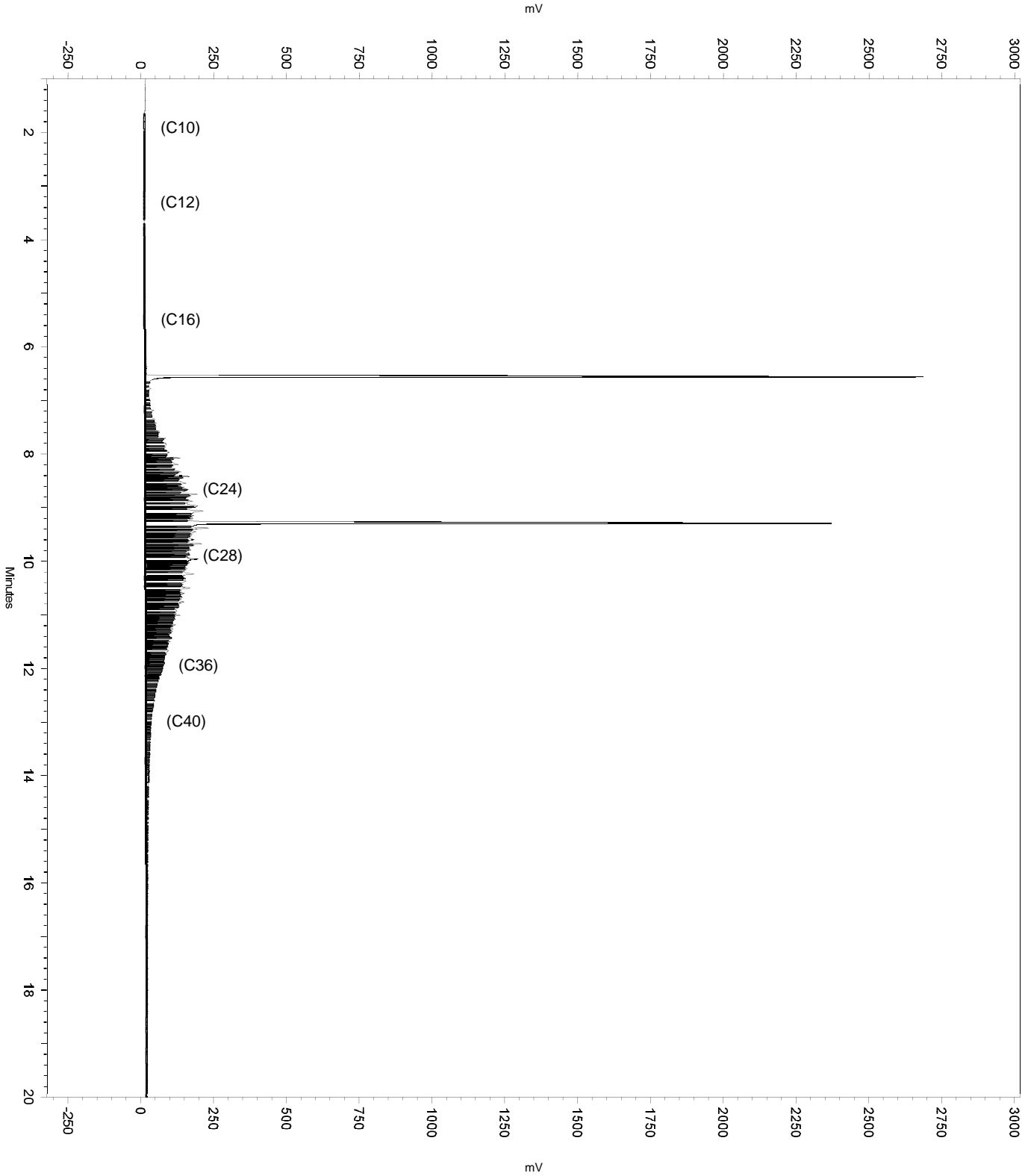
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.3	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.5	6.919	0
No	Split Peak	6.508	0	0
No	Split Peak	6.621	0	0
No	Manual Baseline	9.235	9.557	0
No	Split Peak	9.313	0	0
No	Reassign Peak	9.315	9.289	0

Sample Name: ccv,s37407,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a004
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 6:56:16 AM
Analysis Date: 7/10/2018 7:51:15 AM
Instrument: GC17A Vial: 4 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

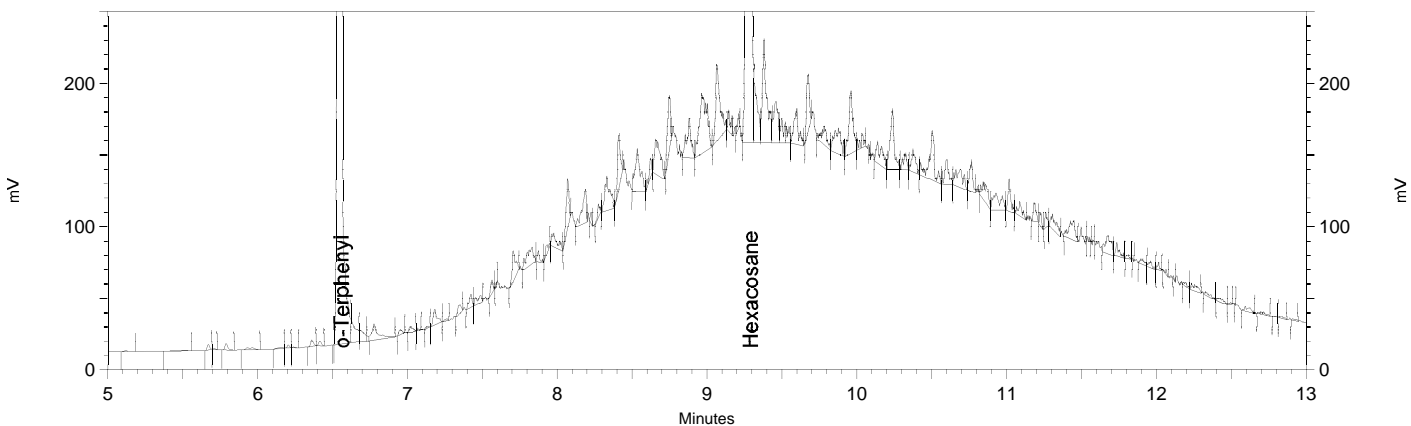


Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a004
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 6:56:16 AM
 Analysis Date: 7/10/2018 7:50:19 AM
 Instrument: GC17A Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.562	4095678	52.819
Hexacosane	9.292	3585950	50.056



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a004

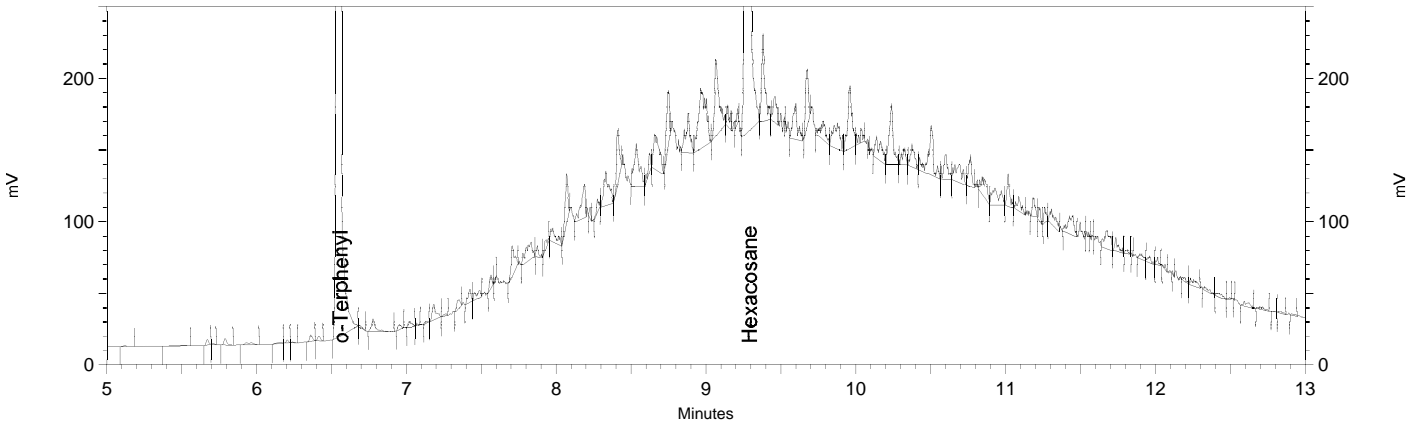
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.5	6.919	0
Yes	Split Peak	6.508	0	0
Yes	Split Peak	6.621	0	0
Yes	Manual Baseline	9.235	9.557	0
Yes	Split Peak	9.313	0	0
Yes	Reassign Peak	9.315	9.289	0

Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a004
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\bothsurr184b.met
 Run Date: 7/10/2018 6:56:16 AM
 Analysis Date: 7/10/2018 7:49:27 AM
 Instrument: GC17A Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.562	4093607	52.792
Hexacosane	9.292	3609580	50.386



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

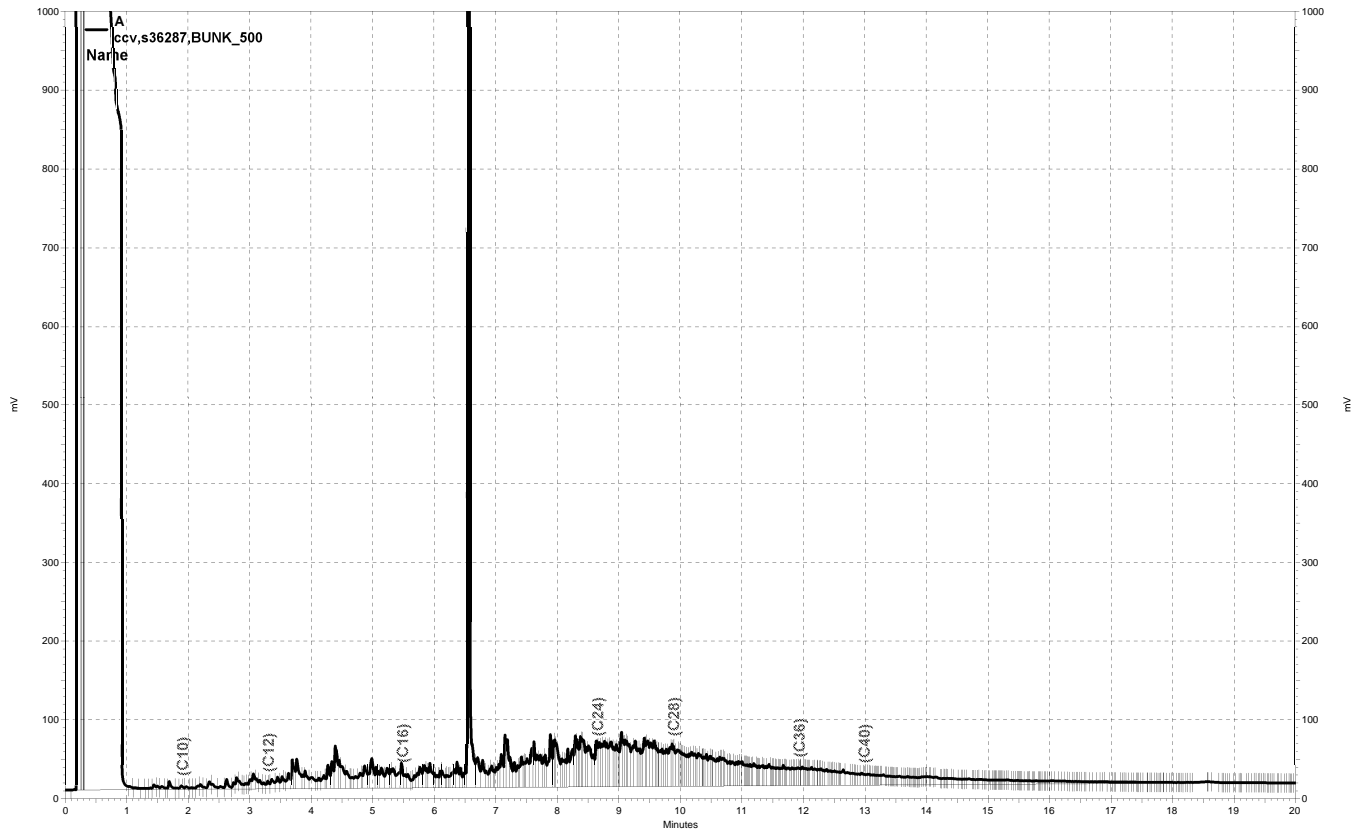
ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : BUNK_500 IDF : 1.0
 Seqnum : 178275372008 File : 191a008 Time : 10-JUL-2018 09:20
 Standards: S36287

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Bunker C C12-C40	177456968001	13-NOV-2017	29708	33781	500.0	568.6	mg/L	14	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	82312	50.00	53.08	mg/L	6	15	

WA1 07/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/10/18 Reviewer: EAH Date: 07/10/18



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008, A

Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 9:20:14 AM
 Analysis Date: 7/10/2018 9:45:49 AM
 Instrument: GC17A Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	3006090	37.141
DSL:10-22	11193747	177.308
DSL:10-24	13065738	201.932
DSL:10-28	16787932	256.878
DSL:12-24	12591789	226.485
DSL:12-28	16313983	290.043
DSL:16-24	10256463	351.416
MO:22-32	8227097	172.835
MO:24-36	7801456	158.649
MO:28-40	5178834	160.605
BUNKC:10-40	21480294	702.218
BUNKC:12-40	21006342	707.103

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0          10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

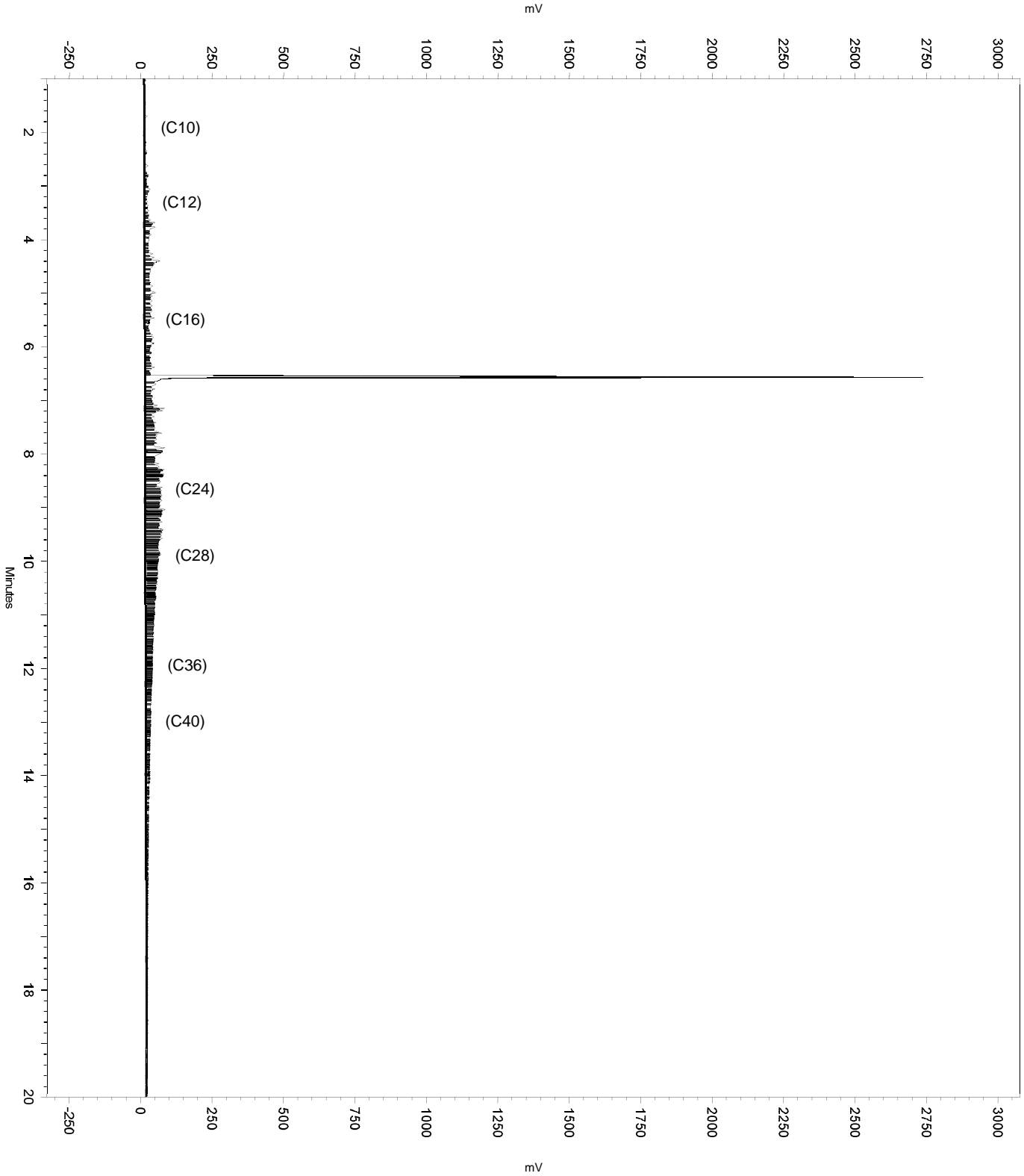
Manual Integration Fixes

=====

```

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.456      6.873     0
No Split Peak           6.521      0          0
No Split Peak           6.607      0          0
Yes Move BL Start       18.983     0.098     0
  
```

Sample Name: ccv,s36287,BUNK_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 9:20:14 AM
Analysis Date: 7/10/2018 9:45:49 AM
Instrument: GC17A Vial: 8 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 9:20:14 AM
 Analysis Date: 7/10/2018 9:45:32 AM
 Instrument: GC17A Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	1999996	24.710
DSL:10-22	8424388	133.441
DSL:10-24	9663528	149.350
DSL:10-28	12062450	184.571
DSL:12-24	9362659	168.403
DSL:12-28	11761581	209.107
DSL:16-24	7771239	266.265
MO:22-32	4819545	101.249
MO:24-36	3766957	76.604
MO:28-40	1453755	45.084
BUNKC:10-40	13227843	432.435
BUNKC:12-40	12926974	435.140

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

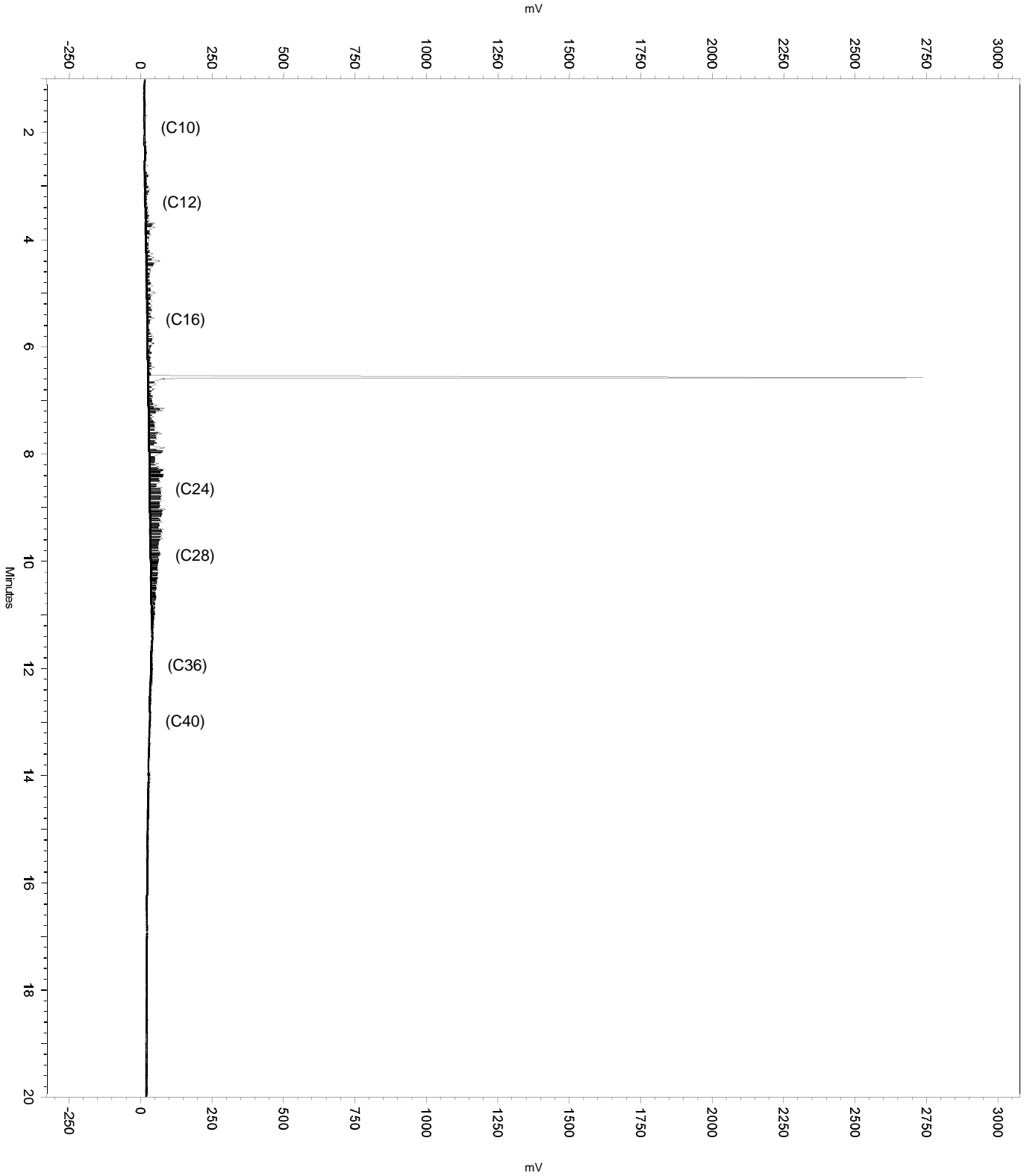
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.456      6.873      0
No Split Peak           6.521      0          0
No Split Peak           6.607      0          0
  
```

Sample Name: ccv,s36287,BUNK_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 9:20:14 AM
Analysis Date: 7/10/2018 9:45:32 AM
Instrument: GC17A Vial: 8 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

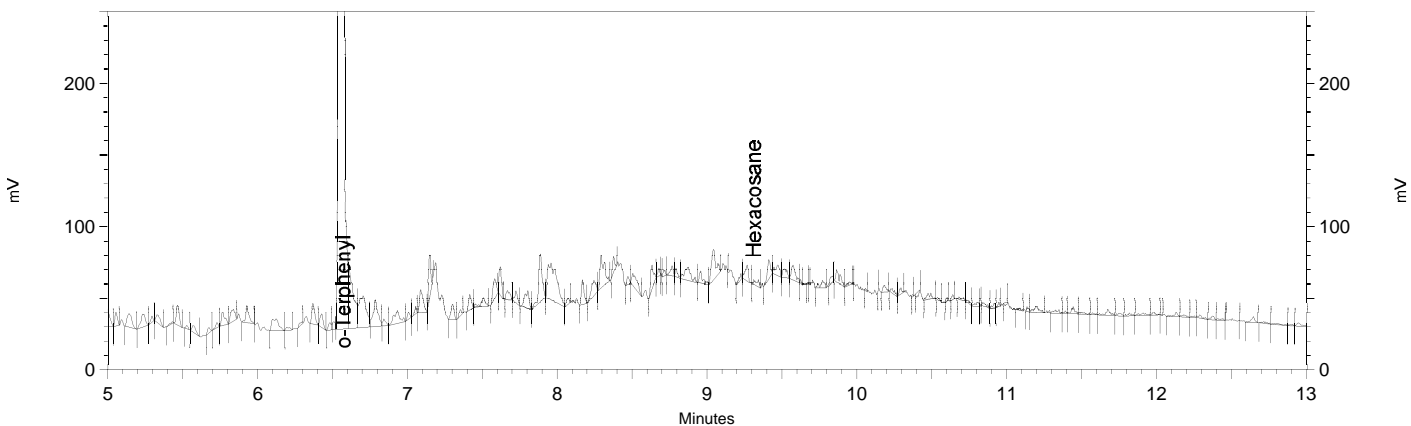


Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 9:20:14 AM
 Analysis Date: 7/10/2018 9:45:14 AM
 Instrument: GC17A Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.570	4115618	53.076
Hexacosane	9.310	9362	0.131



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

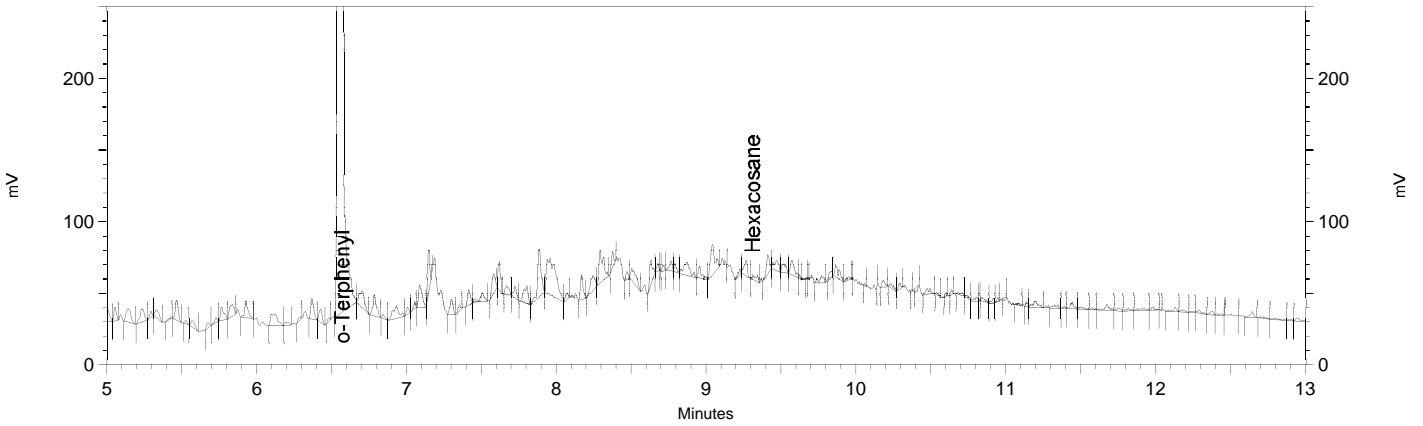
=====				
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.456	6.873	0
Yes	Split Peak	6.521	0	0
Yes	Split Peak	6.607	0	0

Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 9:20:14 AM
 Analysis Date: 7/10/2018 9:44:48 AM
 Instrument: GC17A Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.570	4127236	53.226
Hexacosane	9.310	9362	0.131



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a008				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

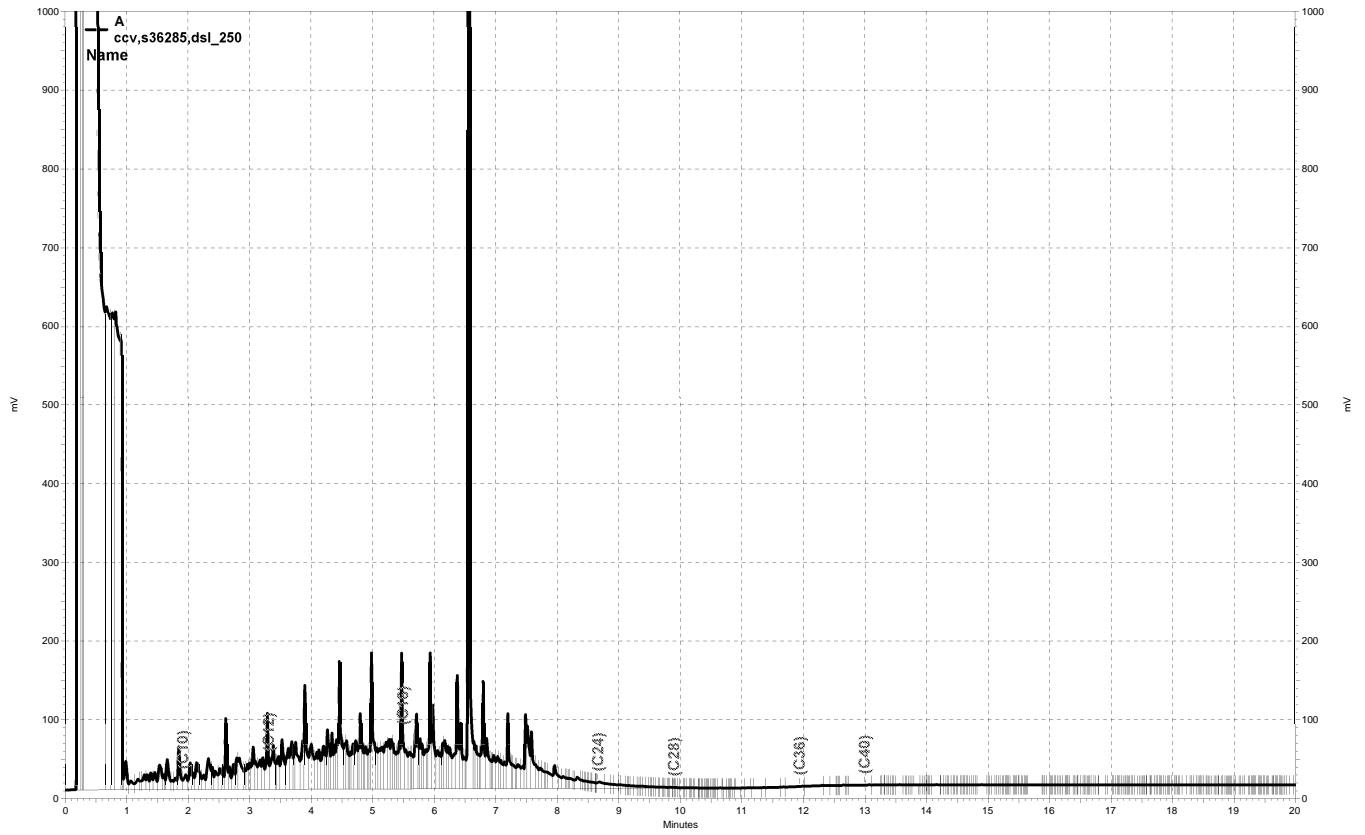
ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : DSL_250 IDF : 1.0
Seqnum : 178275372018 File : 191a018 Time : 10-JUL-2018 15:02
Standards: S36285

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	178265382002	03-JUL-2018	64704	66251	250.0	256.0	mg/L	2	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	79481	50.00	51.25	mg/L	3	15	

WA1 07/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/10/18 Reviewer: AMP Date: 07/11/18



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a018, A

Sample Name: **ccv,s36285,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 3:02:42 PM
 Analysis Date: 7/10/2018 3:24:15 PM
 Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	9602276	118.639
DSL:10-22	20111008	318.556
DSL:10-24	20536688	317.396
DSL:10-28	20727688	317.161
DSL:12-24	18273612	328.682
DSL:12-28	18464612	328.279
DSL:16-24	11548961	395.701
MO:22-32	782461	16.438
MO:24-36	280595	5.706
MO:28-40	104483	3.240
BUNKC:10-40	20825050	680.798
BUNKC:12-40	18561974	624.822
?	0	0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

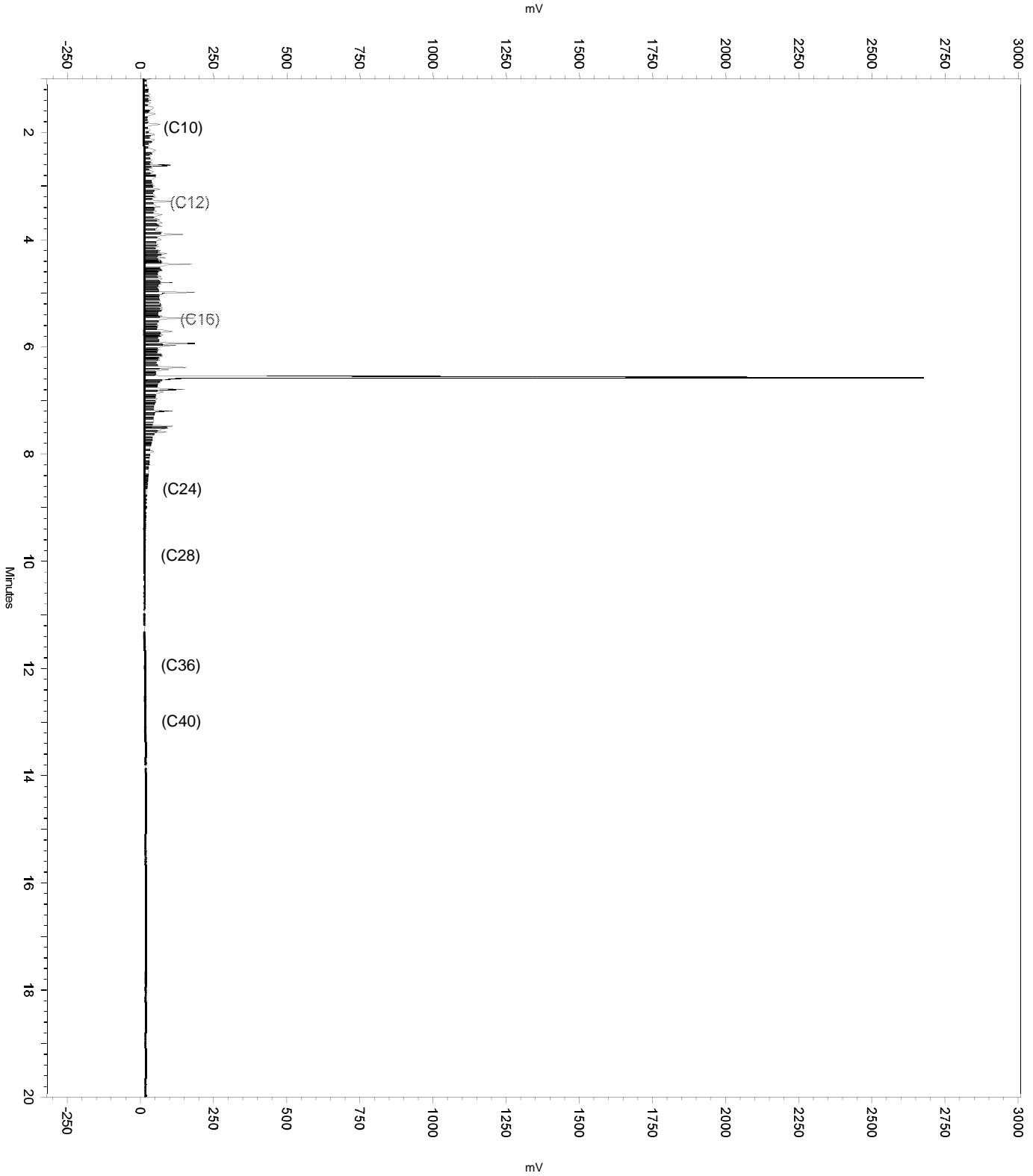
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a018
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Start       1.035     -0.043    0
No Manual Baseline      6.515     6.745     0
No Split Peak           6.626      0          0
  
```

Sample Name: ccv,s36285,dsl_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a018
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 3:02:42 PM
Analysis Date: 7/10/2018 3:24:15 PM
Instrument: GC17A Vial: 18 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: **ccv,s36285,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 3:02:42 PM
 Analysis Date: 7/10/2018 3:24:02 PM
 Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	8442577	104.310
DSL:10-22	18542942	293.718
DSL:10-24	18905692	292.188
DSL:10-28	19042504	291.376
DSL:12-24	17160620	308.663
DSL:12-28	17297432	307.528
DSL:16-24	11041981	378.330
MO:22-32	646828	13.589
MO:24-36	211392	4.299
MO:28-40	98312	3.049
BUNKC:10-40	19136966	625.612
BUNKC:12-40	17391894	585.436

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

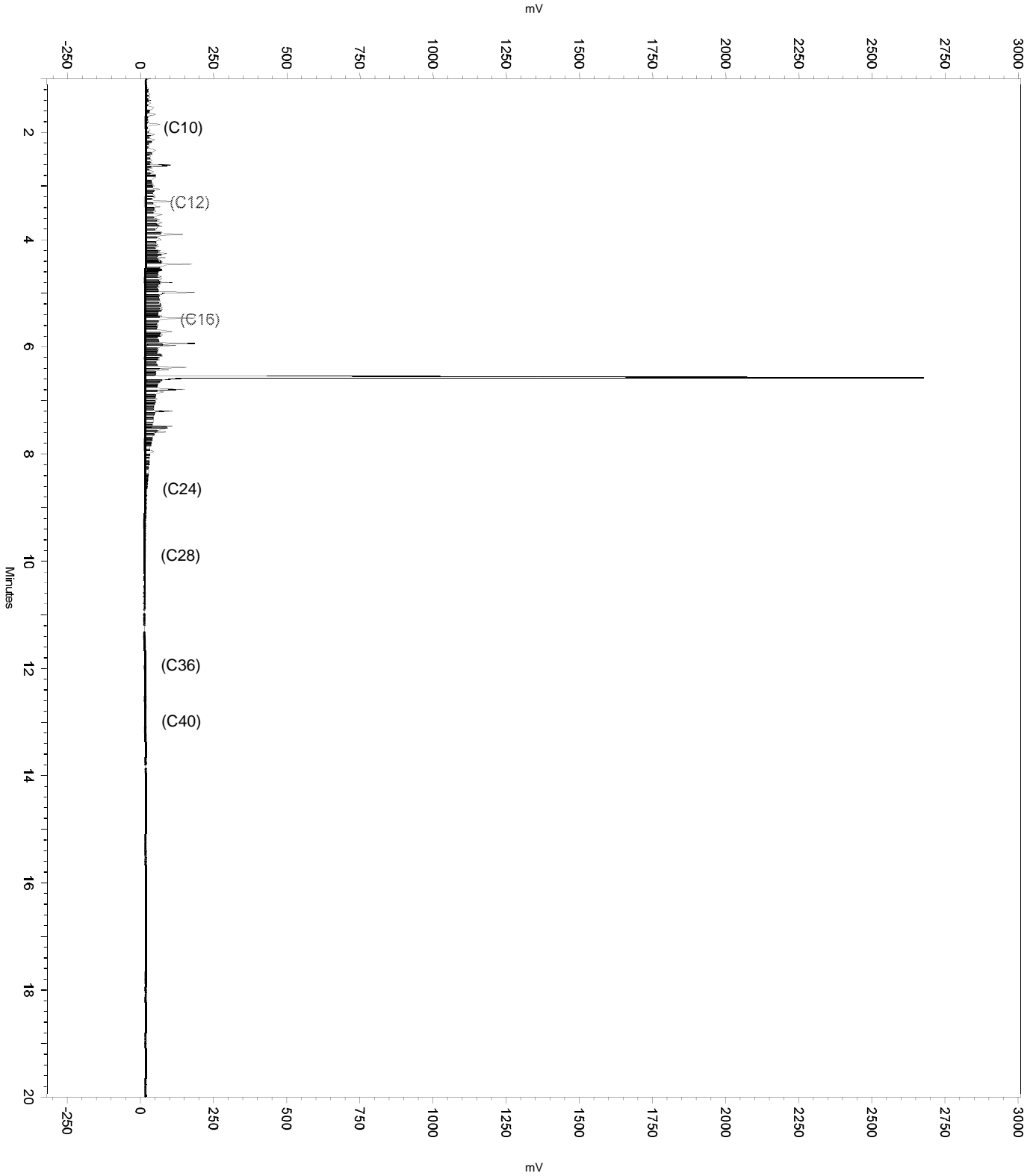
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a018
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.515     6.745     0
No Split Peak           6.626      0          0
  
```

Sample Name: ccv,s36285,dsl_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a018
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 3:02:42 PM
Analysis Date: 7/10/2018 3:24:02 PM
Instrument: GC17A Vial: 18 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

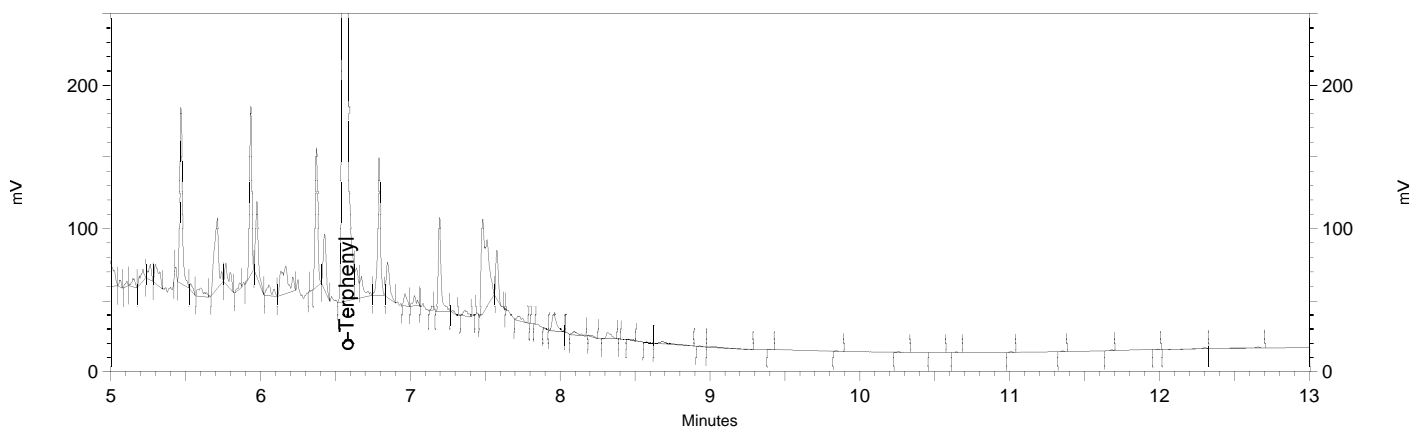


Sample Name: **ccv,s36285,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 3:02:42 PM
 Analysis Date: 7/10/2018 3:23:43 PM
 Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.575	3974046	51.250
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

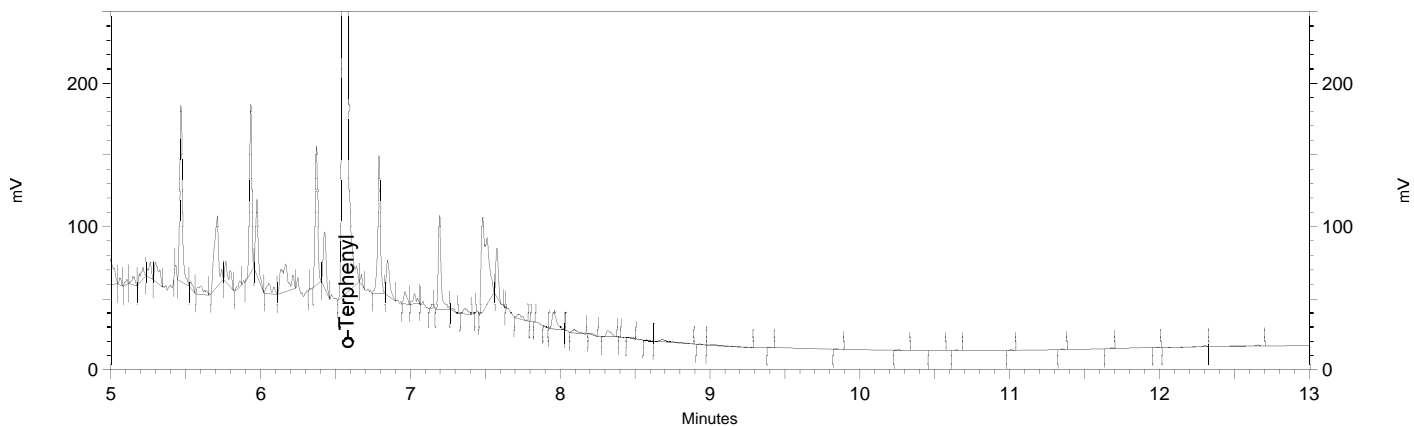
=====				
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a018				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.515	6.745	0
Yes	Split Peak	6.626	0	0

Sample Name: **ccv,s36285,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 3:02:42 PM
 Analysis Date: 7/10/2018 3:23:27 PM
 Instrument: GC17A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.575	3965300	51.137
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====				
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a018				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

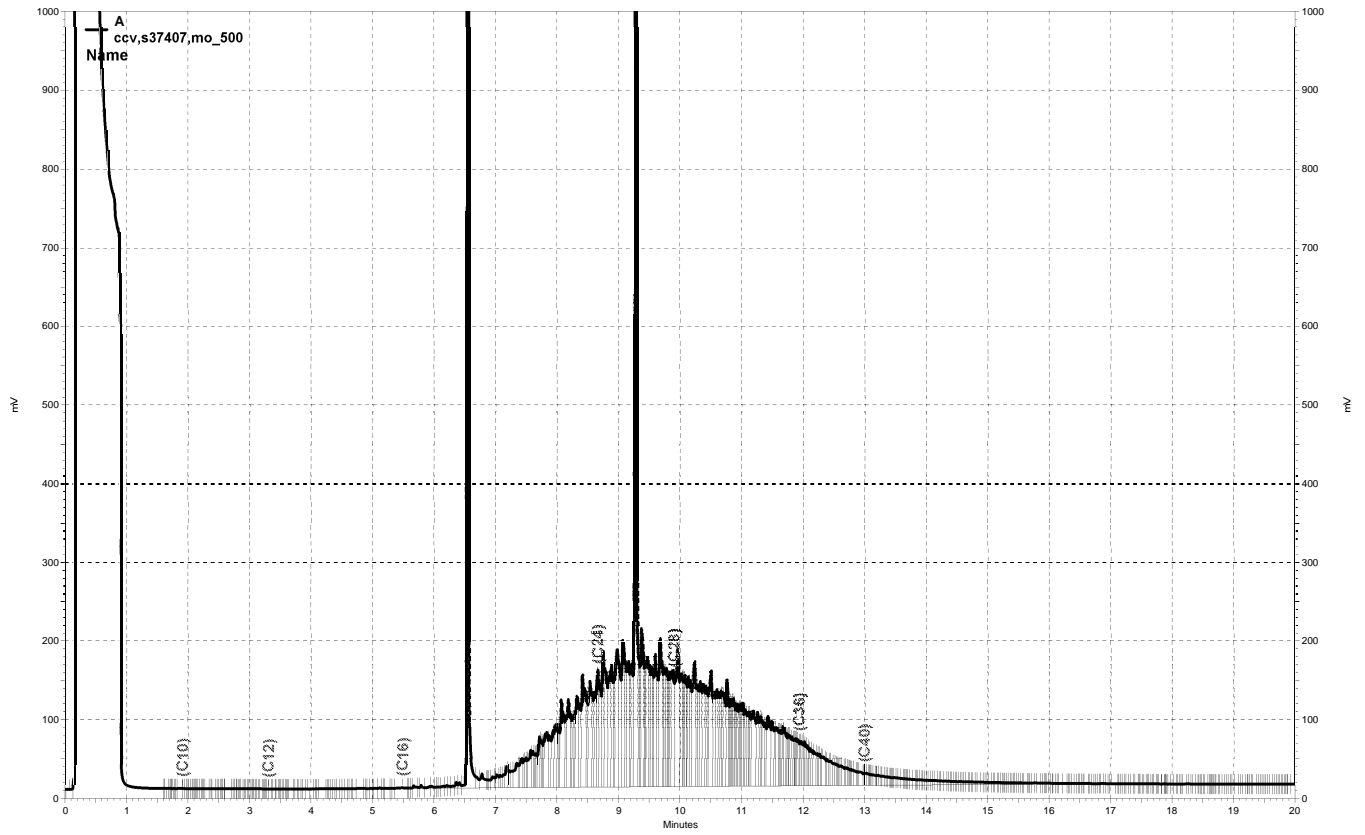
ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : MO_500 IDF : 1.0
 Seqnum : 178275372019 File : 191a019 Time : 10-JUL-2018 15:30
 Standards: S37407

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	178265382003	04-JUL-2018	49174	48396	500.0	492.1	mg/L	-2	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	80251	50.00	51.75	mg/L	3	15	

WA1 07/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/10/18 Reviewer: AMP Date: 07/11/18



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a019, A

Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 3:30:17 PM
 Analysis Date: 7/10/2018 5:07:36 PM
 Instrument: GC17A Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	22618	0.279
DSL:10-22	6925523	109.700
DSL:10-24	11348892	175.398
DSL:10-28	25472336	389.760
DSL:12-24	11343626	204.034
DSL:12-28	25467072	452.774
DSL:16-24	11332445	388.283
MO:22-32	26714828	561.227
MO:24-36	26847492	545.967
MO:28-40	15124273	469.032
BUNKC:10-40	39104596	1278.379
BUNKC:12-40	39099332	1316.139

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

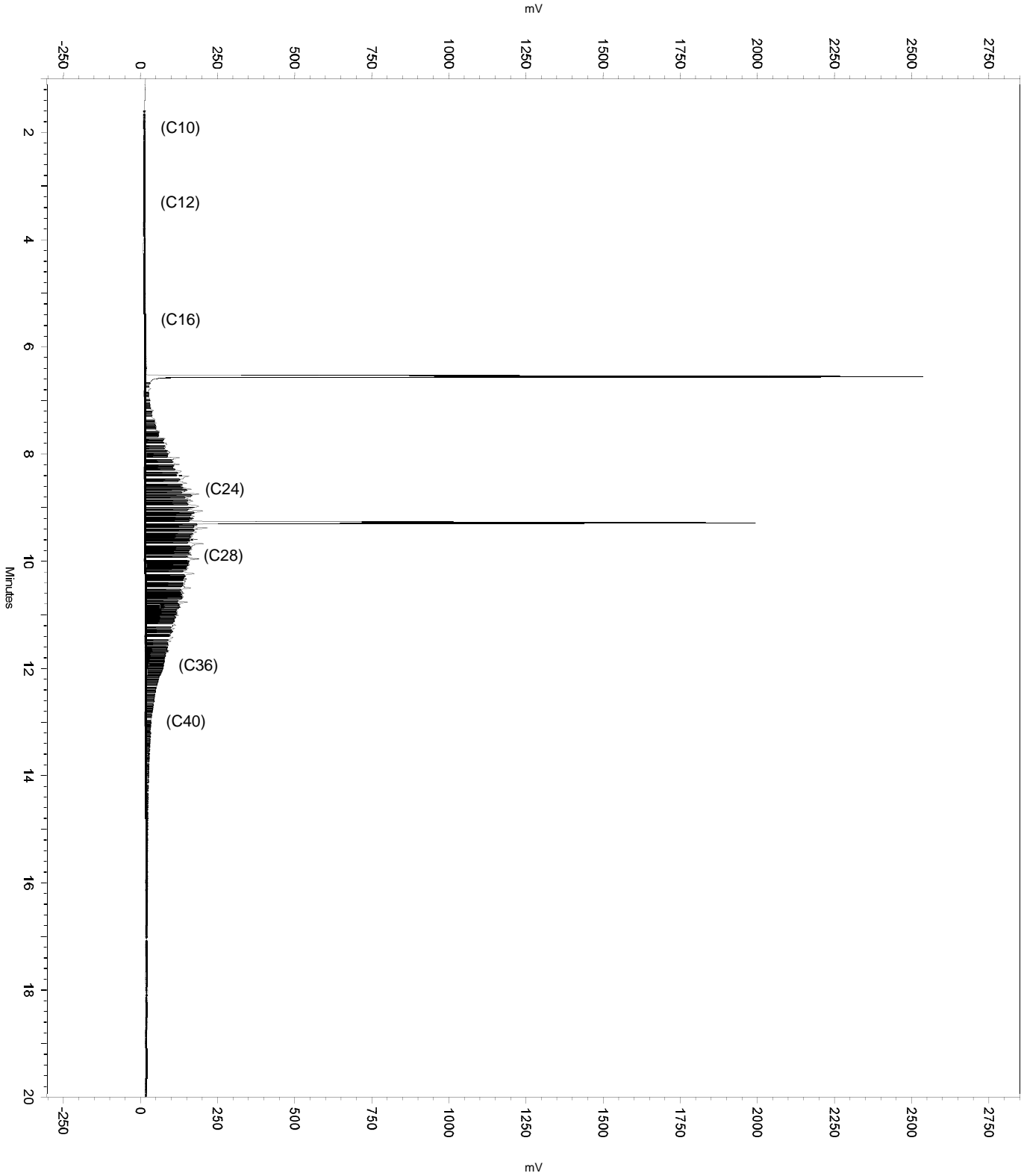
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a019
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.5        6.885     0
No Manual Baseline      9.236      9.514     0
No Split Peak           9.316      0          0
No Reassign Peak        9.323      9.283     0
Yes Reset Baseline     17.027     0          0
  
```

Sample Name: ccv,s37407,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a019
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 3:30:17 PM
Analysis Date: 7/10/2018 5:07:36 PM
Instrument: GC17A Vial: 19 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 3:30:17 PM
 Analysis Date: 7/10/2018 5:07:21 PM
 Instrument: GC17A Vial: 19 Operator: teh analyst (iims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	24394	0.301
DSL:10-22	6948215	110.059
DSL:10-24	11381494	175.902
DSL:10-28	25528256	390.616
DSL:12-24	11376228	204.621
DSL:12-28	25522988	453.768
DSL:16-24	11363943	389.362
MO:22-32	26773944	562.469
MO:24-36	26922216	547.486
MO:28-40	15210238	471.698
BUNKC:10-40	39243000	1282.903
BUNKC:12-40	39237728	1320.797

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

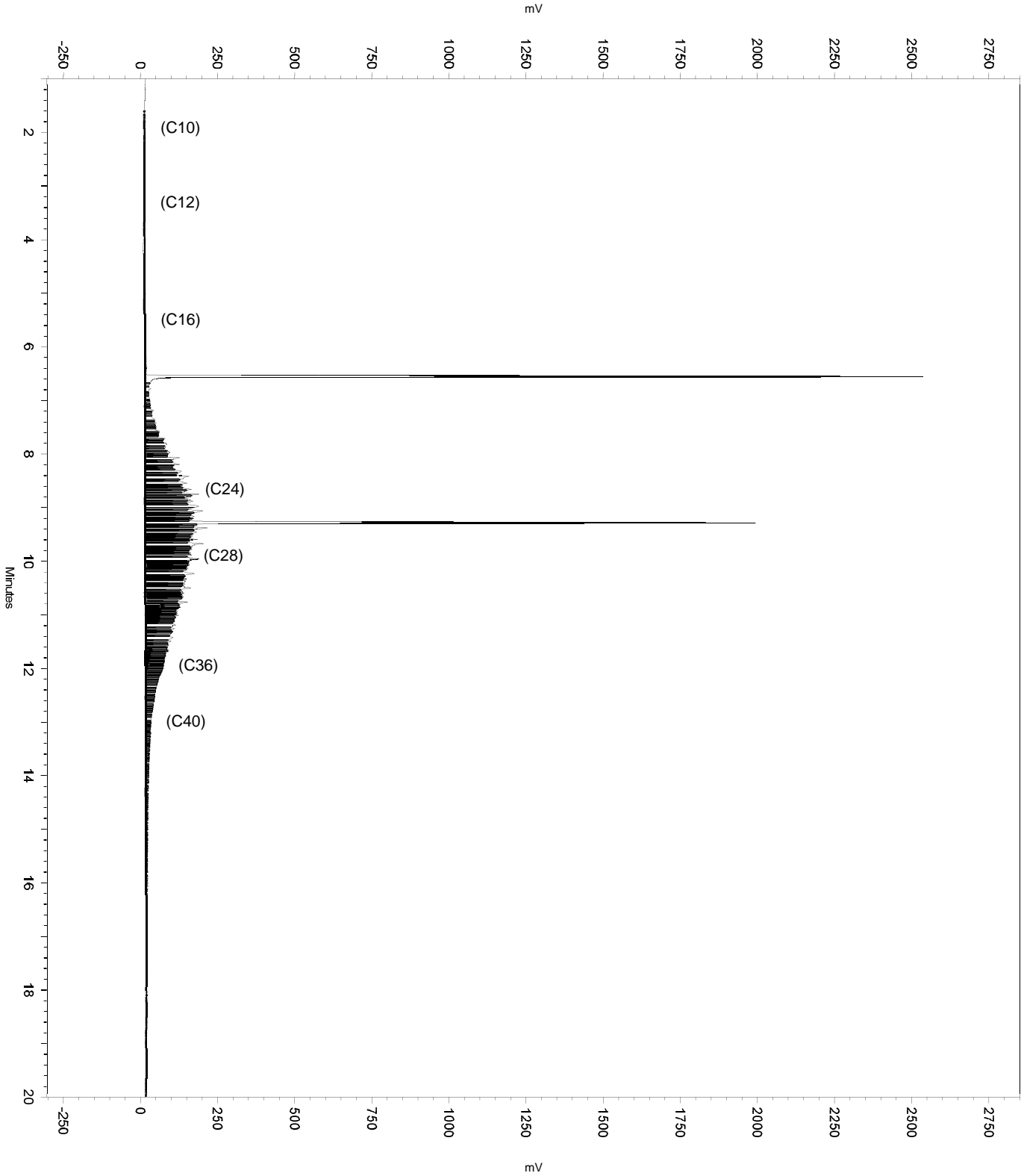
Manual Integration Fixes

=====

```

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a019
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      6.5        6.885     0
No Manual Baseline      9.236      9.514     0
No Split Peak           9.316      0          0
No Reassign Peak        9.323      9.283     0
  
```

Sample Name: ccv,s37407,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a019
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 3:30:17 PM
Analysis Date: 7/10/2018 5:07:21 PM
Instrument: GC17A Vial: 19 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

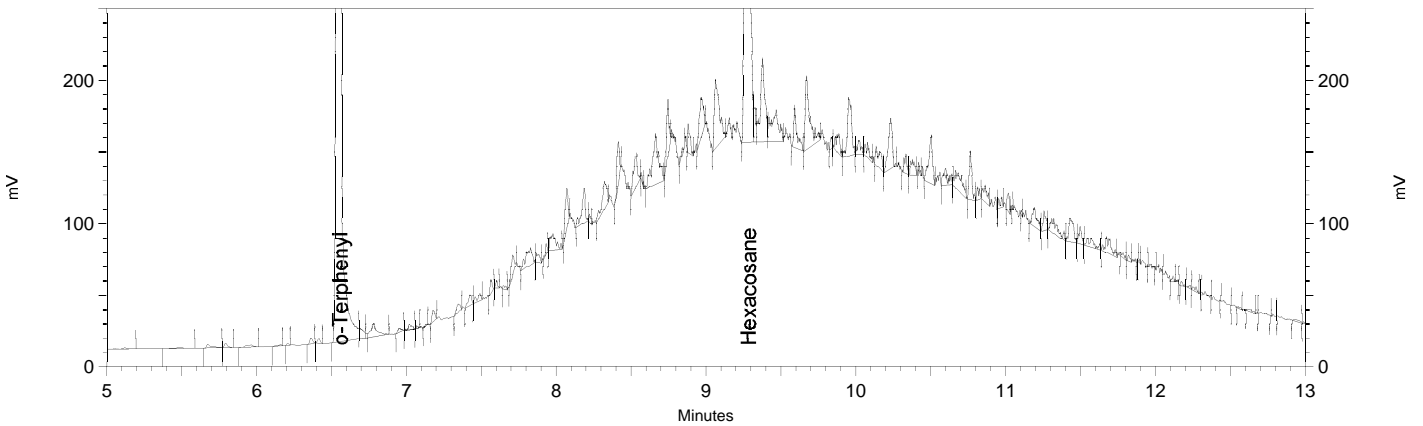


Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 3:30:17 PM
 Analysis Date: 7/10/2018 5:07:03 PM
 Instrument: GC17A Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.560	4012550	51.747
Hexacosane	9.285	2649486	36.984



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a019

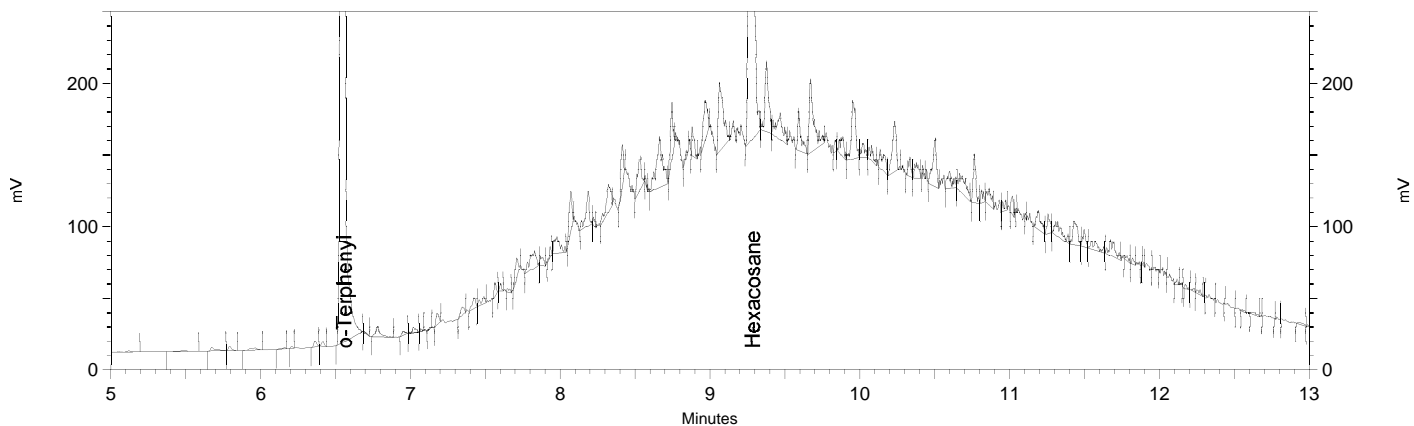
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.5	6.885	0
Yes	Manual Baseline	9.236	9.514	0
Yes	Split Peak	9.316	0	0
Yes	Reassign Peak	9.323	9.283	0

Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 3:30:17 PM
 Analysis Date: 7/10/2018 4:19:15 PM
 Instrument: GC17A Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.560	3975700	51.272
Hexacosane	9.285	2641164	36.868



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0       20     0
Yes Shoulder Sensitivity 0       20    100
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a019
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

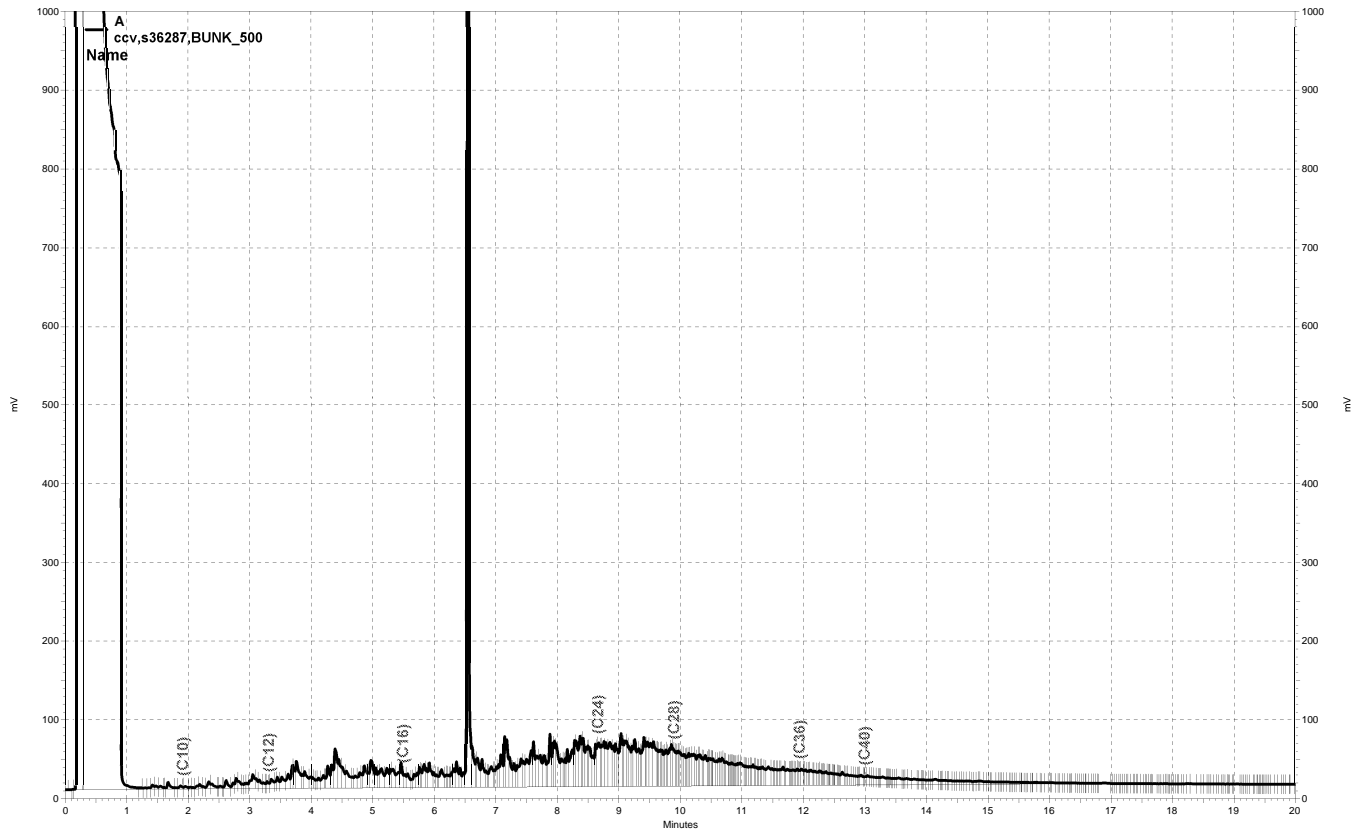

ENTHALPY CONTINUING CALIBRATION FOR 301314 GCSV Water
EPA 8015B

Inst : GC17A Run Name : BUNK_500 IDF : 1.0
 Seqnum : 178275372020 File : 191a020 Time : 10-JUL-2018 15:57
 Standards: S36287

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Bunker C C12-C40	177456968001	13-NOV-2017	29708	32837	500.0	552.7	mg/L	11	15	
o-Terphenyl	178265382004	03-JUL-2018	77542	81856	50.00	52.78	mg/L	6	15	

WA1 07/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/10/18 Reviewer: EAH Date: 07/12/18



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a020, A

Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 3:57:44 PM
 Analysis Date: 7/10/2018 4:21:05 PM
 Instrument: GC17A Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	2985744	36.890
DSL:10-22	11160528	176.782
DSL:10-24	13000867	200.929
DSL:10-28	16715103	255.763
DSL:12-24	12529358	225.362
DSL:12-28	16243594	288.792
DSL:16-24	10213171	349.933
MO:22-32	8075840	169.658
MO:24-36	7457209	151.649
MO:28-40	4767101	147.837
BUNKC:10-40	20982756	685.953
BUNKC:12-40	20511240	690.438

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

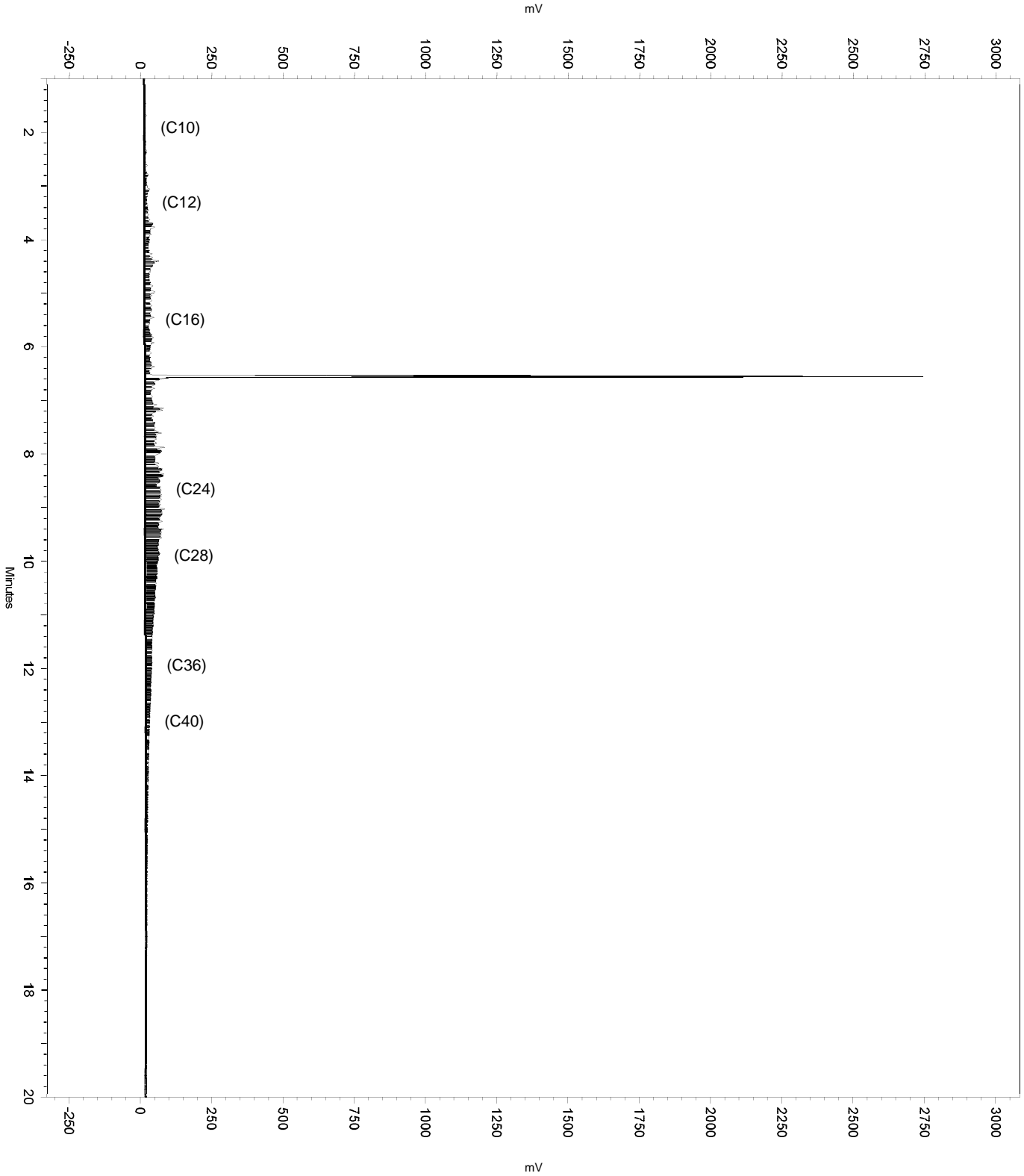
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Reset Baseline      0.3        0          0
Yes Force Peak Stop     1.616      0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a020
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Start       2.105     -0.108    0
No Manual Baseline      6.489     6.827     0
Yes Move BL Stop        12.688    17.127    0
  
```

Sample Name: ccv,s36287,BUNK_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a020
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 3:57:44 PM
Analysis Date: 7/10/2018 4:21:05 PM
Instrument: GC17A Vial: 20 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1



Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
 Run Date: 7/10/2018 3:57:44 PM
 Analysis Date: 7/10/2018 4:20:43 PM
 Instrument: GC17A Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17A

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	2295038	28.356
DSL:10-22	9537925	151.080
DSL:10-24	11062857	170.977
DSL:10-28	14113433	215.954
DSL:12-24	10758611	193.512
DSL:12-28	13809187	245.511
DSL:16-24	8915227	305.462
MO:22-32	6395349	134.354
MO:24-36	5455586	110.944
MO:28-40	2679977	83.111
BUNKC:10-40	16396477	536.022
BUNKC:12-40	16092231	541.687

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

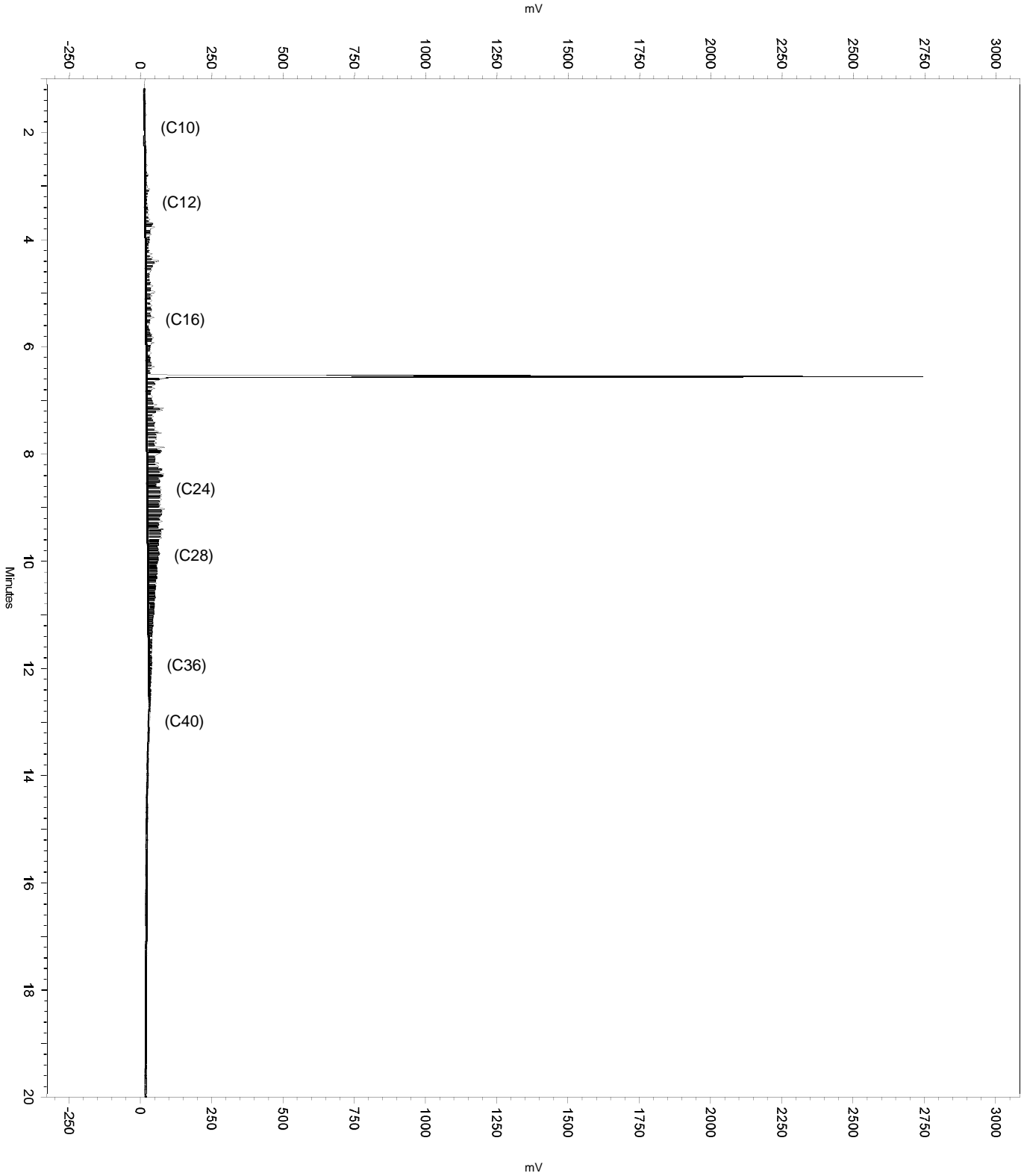
=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0       0
Yes Threshold            0       0      10
Yes Reset Baseline      0.3     0       0
Yes Force Peak Stop     1.616   0       0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a020
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
No Manual Baseline     6.489   6.827   0
  
```

Sample Name: ccv,s36287,BUNK_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a020
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17a\Sequence\2018\191.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC17a\Method\teh187.met
Run Date: 7/10/2018 3:57:44 PM
Analysis Date: 7/10/2018 4:20:43 PM
Instrument: GC17A Vial: 20 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1 Dilution Factor: 1 PDF: 1

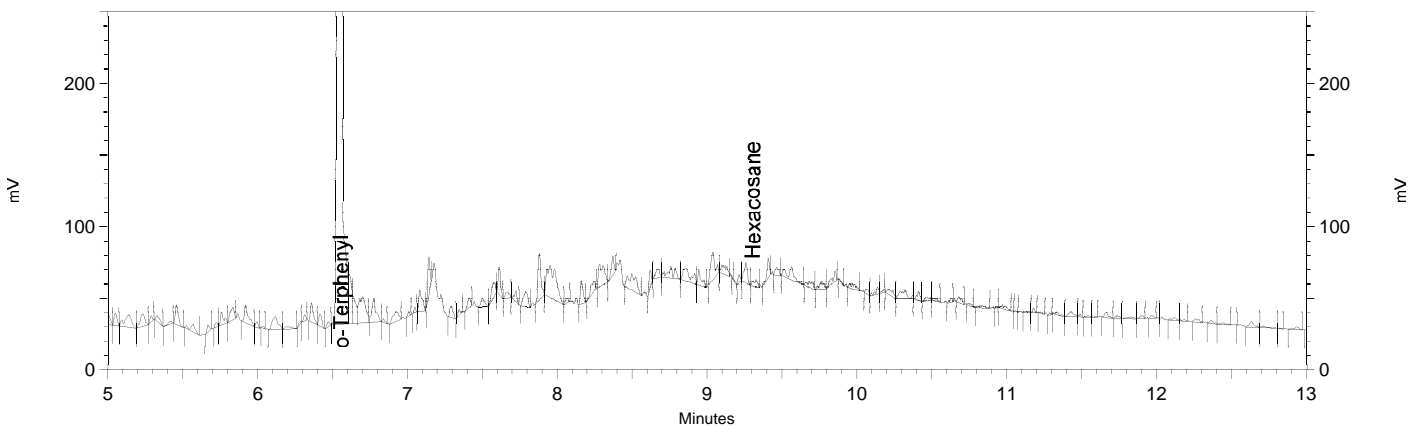


Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 3:57:44 PM
 Analysis Date: 7/10/2018 4:19:59 PM
 Instrument: GC17A Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.558	4092822	52.782
Hexacosane	9.302	10736	0.150



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

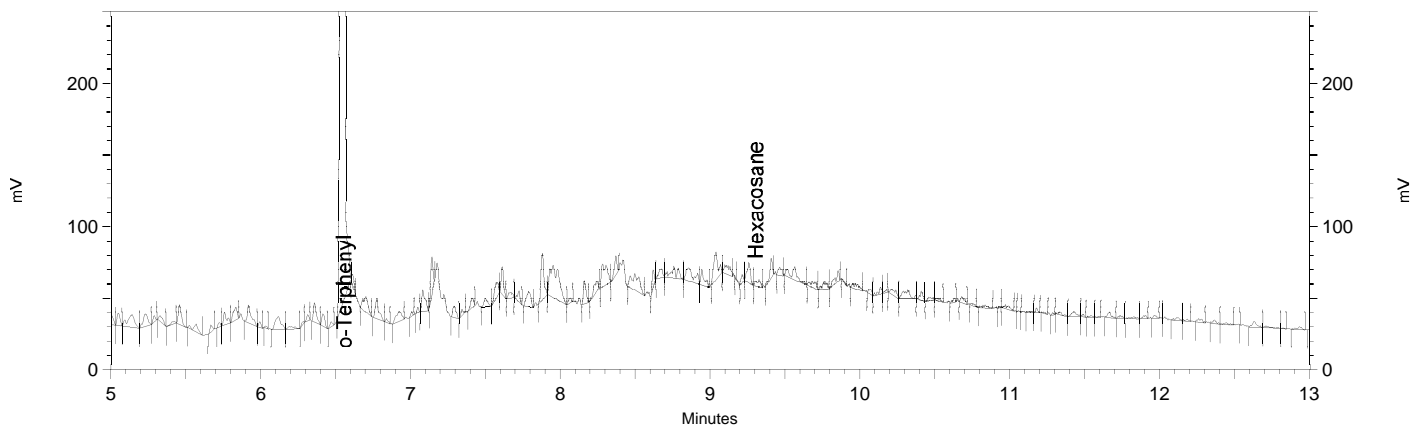
=====				
Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a020				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.489	6.827	0

Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC17A\Sequence\2018\191.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC17A\Method\bothsurr184b.met
 Run Date: 7/10/2018 3:57:44 PM
 Analysis Date: 7/10/2018 4:19:48 PM
 Instrument: GC17A Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC17

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.558	3991430	51.474
Hexacosane	9.302	10736	0.150



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	100
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC17a\Data\2018\191a020				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 301314

ANALYTICAL REPORT

Semivolatile Organics by GC/MS SIM

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Avenue
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	301314-001
BR11-1GW03	301314-002
BR11-1GW02	301314-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Mike Dahlquist
Project Manager
mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

Date: 07/17/2018

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE
SEMIVOLATILE ORGANICS BY GC/MS SIM (EPA 8270C-SIM)

Laboratory number: **301314**
Client: **TRC Solutions**
Project: **285830.02.01**
Location: **Riley Avenue**
Request Date: **07/06/18**
Samples Received: **07/06/18**

This data package contains sample and QC results for three water samples, requested for the above referenced project on 07/06/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

No analytical problems were encountered.

Chain of Custody

Enthalpy Analytical LLC
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900 Phone
 (510) 486-0532 Fax

CHAIN OF CUSTODY

Page 1 of 1
 Chain of Custody # : _____

C&T LOGIN # 301314

Project No: 285830.02.01
 Project Name: Riley Avenue KL
 EDD Format: TRC EQUIS Rpt Level: III IV
 Turnaround Time: RUSH Standard
 Sampler: Kevin Li, Nate Berube
 Report To: Alfonso Ang
 Company: TRC Solutions
 Telephone: 415-786-7830
 Email: aang@trcsolutions.com

Analytical Request	
TPH-g, TPH-d (No SGC), TPH-mo. - 8015	X
BTEX - EPA 8021	X
PAHs - EPA 8270-SIM	X
Total Dissolved Solids (TDS) - SM 2540C	X
TPH-9 + BTEX - EPA 8015 + 8021	X

Lab No.	Sample ID.	Sampling		Matrix		Chemical Preservative						
		Date	Time	Water	Soil	# of Containers	HCl	H ₂ SO ₄	HNO ₃	NaOH	None	
	BR11-1GW01	7/6/18	15:06	X		8	X					
	BR11-1GW03	7/6/18	11:40	X		8	X					
	BR11-1GW02	7/6/18	16:35	X		8	X					
	1307062018-01	7/6/18	16:38	X		1						X

Notes: Include Geotracker EDF	RELINQUISHED BY:	RECEIVED BY:
All results to be reported on a dry weight basis. No silica gel cleanup Please email cc the following: jhanzel-durbin@trcsolutions.com, kli@trcsolutions.com mpatinkin@trcsolutions.com, nberube@trcsolutions.com smilican@trcsolutions.com	[Signature] 7-6-18 16:53 DATE/TIME	[Signature] 7-6-18 18:45 DATE/TIME

Report Level IV data packages and include chromatographs

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 301314 Client: TRE
 Date Received: 7-6-18 Project: Riley Ave

Section 2: Samples received in a cooler? Yes, how many? 1 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun # A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 7-6-18 By (print) [Signature] (sign) [Signature]
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important: Notify PM if temperature exceeds 6°C or arrive frozen.**
 Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 2.8, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?		<input checked="" type="checkbox"/>	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?			<input checked="" type="checkbox"/>
Did you change the hold time in LIMS for preserved terracores?			<input checked="" type="checkbox"/>
Are bubbles > 6mm absent in VOA samples?		<input checked="" type="checkbox"/>	
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			<input checked="" type="checkbox"/>
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check? pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:
 Explanations/Comments: 4/1 VOAs arrived with bubbles for sample 4

Date Logged in 7-6-18 By (print) TRE (sign) [Signature]
 Date Labeled 7-7-18 By (print) [Signature] (sign) [Signature]

Results & QC Summary

Semivolatile Organics by GC/MS SIM

Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1GW01	Batch#:	261249
Lab ID:	301314-001	Sampled:	07/06/18
Matrix:	Water	Received:	07/06/18
Units:	ug/L	Prepared:	07/09/18
Diln Fac:	1.000	Analyzed:	07/13/18

Analyte	Result	RL	MDL
Naphthalene	0.04 J	0.1	0.02
Acenaphthylene	ND	0.1	0.02
Acenaphthene	ND	0.1	0.02
Fluorene	ND	0.1	0.02
Phenanthrene	ND	0.1	0.02
Anthracene	ND	0.1	0.02
Fluoranthene	ND	0.1	0.02
Pyrene	ND	0.1	0.02
Benzo(a)anthracene	ND	0.1	0.02
Chrysene	ND	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.02
Benzo(a)pyrene	ND	0.1	0.02
Indeno(1,2,3-cd)pyrene	ND	0.1	0.02
Dibenz(a,h)anthracene	ND	0.1	0.02
Benzo(g,h,i)perylene	ND	0.1	0.02

Surrogate	%REC	Limits
Nitrobenzene-d5	89	48-124
2-Fluorobiphenyl	88	51-120
Terphenyl-d14	116	25-120

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1GW03	Batch#:	261249
Lab ID:	301314-002	Sampled:	07/06/18
Matrix:	Water	Received:	07/06/18
Units:	ug/L	Prepared:	07/09/18
Diln Fac:	1.000	Analyzed:	07/13/18

Analyte	Result	RL	MDL
Naphthalene	0.04 J	0.1	0.02
Acenaphthylene	ND	0.1	0.02
Acenaphthene	ND	0.1	0.02
Fluorene	ND	0.1	0.02
Phenanthrene	ND	0.1	0.02
Anthracene	ND	0.1	0.02
Fluoranthene	ND	0.1	0.02
Pyrene	ND	0.1	0.02
Benzo(a)anthracene	ND	0.1	0.02
Chrysene	ND	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.02
Benzo(a)pyrene	ND	0.1	0.02
Indeno(1,2,3-cd)pyrene	ND	0.1	0.02
Dibenz(a,h)anthracene	ND	0.1	0.02
Benzo(g,h,i)perylene	ND	0.1	0.02

Surrogate	%REC	Limits
Nitrobenzene-d5	76	48-124
2-Fluorobiphenyl	78	51-120
Terphenyl-d14	93	25-120

J= Estimated value

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1GW02	Batch#:	261249
Lab ID:	301314-003	Sampled:	07/06/18
Matrix:	Water	Received:	07/06/18
Units:	ug/L	Prepared:	07/09/18
Diln Fac:	1.000	Analyzed:	07/16/18

Analyte	Result	RL	MDL
Naphthalene	0.07 J	0.1	0.02
Acenaphthylene	ND	0.1	0.02
Acenaphthene	ND	0.1	0.02
Fluorene	ND	0.1	0.02
Phenanthrene	ND	0.1	0.02
Anthracene	ND	0.1	0.02
Fluoranthene	ND	0.1	0.02
Pyrene	ND	0.1	0.02
Benzo(a)anthracene	ND	0.1	0.02
Chrysene	ND	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.02
Benzo(a)pyrene	ND	0.1	0.02
Indeno(1,2,3-cd)pyrene	ND	0.1	0.02
Dibenz(a,h)anthracene	ND	0.1	0.02
Benzo(g,h,i)perylene	ND	0.1	0.02

Surrogate	%REC	Limits
Nitrobenzene-d5	82	48-124
2-Fluorobiphenyl	66	51-120
Terphenyl-d14	31	25-120

J= Estimated value

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC938867	Batch#:	261249
Matrix:	Water	Prepared:	07/09/18
Units:	ug/L	Analyzed:	07/13/18

Analyte	Result	RL	MDL
Naphthalene	ND	0.1	0.02
Acenaphthylene	ND	0.1	0.02
Acenaphthene	ND	0.1	0.02
Fluorene	ND	0.1	0.02
Phenanthrene	ND	0.1	0.02
Anthracene	ND	0.1	0.02
Fluoranthene	ND	0.1	0.02
Pyrene	ND	0.1	0.02
Benzo(a)anthracene	ND	0.1	0.02
Chrysene	ND	0.1	0.02
Benzo(b)fluoranthene	ND	0.1	0.02
Benzo(k)fluoranthene	ND	0.1	0.02
Benzo(a)pyrene	ND	0.1	0.02
Indeno(1,2,3-cd)pyrene	ND	0.1	0.02
Dibenz(a,h)anthracene	ND	0.1	0.02
Benzo(g,h,i)perylene	ND	0.1	0.02

Surrogate	%REC	Limits
Nitrobenzene-d5	86	48-124
2-Fluorobiphenyl	84	51-120
Terphenyl-d14	98	25-120

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8270C-SIM
Matrix:	Water	Batch#:	261249
Units:	ug/L	Prepared:	07/09/18
Diln Fac:	1.000	Analyzed:	07/13/18

Type: BS Lab ID: QC938868

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	1.000	0.8800	88	51-120
Pyrene	1.000	1.112	111	60-120

Surrogate	%REC	Limits
Nitrobenzene-d5	83	48-124
2-Fluorobiphenyl	82	51-120
Terphenyl-d14	100	25-120

Type: BSD Lab ID: QC938869

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	1.000	0.8481	85	51-120	4	48
Pyrene	1.000	1.054	105	60-120	5	35

Surrogate	%REC	Limits
Nitrobenzene-d5	78	48-124
2-Fluorobiphenyl	79	51-120
Terphenyl-d14	95	25-120

RPD= Relative Percent Difference

PEM Report

File Name : G:\msbna03\071318\VGD05.D
 Date Acquired : 13 Jul 2018 1:26 pm
 Sample Name : TUN,S37298
 Misc. Info : DFTPP/PEM
 Calib. Title : MSBNA03 BNA DFTPP/PEM
 Inst. Name : MSBNA03
 AcquisitionMeth: DFTPP03.M

Compound Name	Tailing Factor	RT	Area
Pentachlorophenol	1.747	5.09	391234
Benzidine	0.451	6.96	1970245
4,4'-DDT		7.98	973953
<hr/>			
% Breakdown: 4,4'-DDT	LIMIT <=20%	0%	PASS
Tailing: Pentachlorophenol	8270C <5.0	1.7	PASS
	8270D <=2	2	PASS
Tailing: Benzidine	8270C <3.0	0.5	PASS
	8270D <=2	0	PASS

ENTHALPY INITIAL CALIBRATION FOR 301314 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA03
 Calnum : 528278537001
 Units : ug/mL

Name : 3PAHSIM
 Date : 12-JUL-2018 12:44
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vgc07	528278537007	ICAL	12-JUL-2018 12:44	S36971
L2	vgc08	528278537008	ICAL	12-JUL-2018 13:17	S36972
L3	vgc09	528278537009	ICAL	12-JUL-2018 13:49	S36973
L4	vgc10	528278537010	ICAL	12-JUL-2018 14:21	S36974
L5	vgc11	528278537011	ICAL	12-JUL-2018 14:54	S36976
L6	vgc12	528278537012	ICAL	12-JUL-2018 15:26	S36977
L7	vgc13	528278537013	ICAL	12-JUL-2018 15:58	S36978

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r ² %RSD	Max %RSD	Min RF	Min r ²	Flg
Naphthalene	0.9956	1.0290	1.0486	1.0415	0.9995	0.9513	0.9070	AVRG		1.00395		0.9961	5	15	0.05	0.99	
Acenaphthylene	1.5465	1.5785	1.6263	1.6227	1.5770	1.4799	1.4506	AVRG		0.64329		1.5545	4	15	0.05	0.99	
Acenaphthene	0.9740	1.0021	1.0420	1.0356	1.0149	0.9513	0.9506	AVRG		1.00422		0.9958	4	15	0.05	0.99	
Fluorene	1.1911	1.1948	1.2165	1.2008	1.1733	1.0950	1.0149	AVRG		0.86565		1.1552	6	15	0.05	0.99	
Phenanthrene	0.9596	0.9546	1.0076	0.9998	0.9526	0.8660	0.8656	AVRG		1.05967		0.9437	6	15	0.05	0.99	
Anthracene	0.9474	0.9461	0.9880	0.9678	0.9408	0.8444	0.8258	AVRG		1.08353		0.9229	7	15	0.05	0.99	
Fluoranthene	1.1502	1.1553	1.1775	1.1671	1.1144	0.9946	1.0003	AVRG		0.90213		1.1085	7	15	0.05	0.99	
Pyrene	1.3508	1.3755	1.3817	1.4026	1.3681	1.2351	1.2601	AVRG		0.74677		1.3391	5	15	0.05	0.99	
Benzo(a)anthracene	1.2352	1.2297	1.2457	1.2580	1.2344	1.1105	1.1101	AVRG		0.83100		1.2034	5	15	0.05	0.99	
Chrysene	1.1355	1.1178	1.1758	1.1942	1.1929	1.0629	1.0444	AVRG		0.88343		1.1319	5	15	0.05	0.99	
Benzo(b)fluoranthene	1.2161	1.2305	1.2198	1.2467	1.2180	1.1341	1.1403	AVRG		0.83279		1.2008	4	15	0.05	0.99	
Benzo(k)fluoranthene	1.3774	1.1570	1.3690	1.3107	1.3702	1.1727	1.2924	AVRG		0.77353		1.2928	7	15	0.05	0.99	
Benzo(a)pyrene	1.0647	1.0836	1.1084	1.1296	1.1179	1.0457	1.0729	AVRG		0.91830		1.0890	3	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.1338	1.1838	1.2051	1.2310	1.2350	1.1729	1.2381	AVRG		0.83336		1.2000	3	15	0.05	0.99	
Dibenz(a,h)anthracene	0.9162	0.9410	0.9704	0.9843	0.9864	0.9582	1.0289	AVRG		1.03164		0.9693	4	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9352	0.9666	0.9859	0.9889	0.9816	0.9154	0.9577	AVRG		1.03990		0.9616	3	15	0.05	0.99	
Nitrobenzene-d5	0.4000	0.4045	0.4189	0.4290	0.4205	0.4093	0.4107	AVRG		2.41973		0.4133	2	15	0.05	0.99	
2-Fluorobiphenyl	1.5546	1.5661	1.5869	1.5544	1.5017	1.3729	1.3172	AVRG		0.66962		1.4934	7	15	0.05	0.99	
Terphenyl-d14	1.1544	1.1505	1.1637	1.1725	1.1535	1.0319	1.0677	AVRG		0.88672		1.1277	5	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.1000	0	0.2000	3	0.5000	5	1.0000	5	2.0000	0	5.0000	-4	10.000	-9
Acenaphthylene	0.1000	-1	0.2000	2	0.5000	5	1.0000	4	2.0000	1	5.0000	-5	10.000	-7
Acenaphthene	0.1000	-2	0.2000	1	0.5000	5	1.0000	4	2.0000	2	5.0000	-4	10.000	-5
Fluorene	0.1000	3	0.2000	3	0.5000	5	1.0000	4	2.0000	2	5.0000	-5	10.000	-12
Phenanthrene	0.1000	2	0.2000	1	0.5000	7	1.0000	6	2.0000	1	5.0000	-8	10.000	-8
Anthracene	0.1000	3	0.2000	3	0.5000	7	1.0000	5	2.0000	2	5.0000	-9	10.000	-11
Fluoranthene	0.1000	4	0.2000	4	0.5000	6	1.0000	5	2.0000	1	5.0000	-10	10.000	-10
Pyrene	0.1000	1	0.2000	3	0.5000	3	1.0000	5	2.0000	2	5.0000	-8	10.000	-6
Benzo(a)anthracene	0.1000	3	0.2000	2	0.5000	4	1.0000	5	2.0000	3	5.0000	-8	10.000	-8
Chrysene	0.1000	0	0.2000	-1	0.5000	4	1.0000	6	2.0000	5	5.0000	-6	10.000	-8
Benzo(b)fluoranthene	0.1000	1	0.2000	2	0.5000	2	1.0000	4	2.0000	1	5.0000	-6	10.000	-5
Benzo(k)fluoranthene	0.1000	7	0.2000	-11	0.5000	6	1.0000	1	2.0000	6	5.0000	-9	10.000	0
Benzo(a)pyrene	0.1000	-2	0.2000	0	0.5000	2	1.0000	4	2.0000	3	5.0000	-4	10.000	-1
Indeno(1,2,3-cd)pyrene	0.1000	-6	0.2000	-1	0.5000	0	1.0000	3	2.0000	3	5.0000	-2	10.000	3
Dibenz(a,h)anthracene	0.1000	-5	0.2000	-3	0.5000	0	1.0000	2	2.0000	2	5.0000	-1	10.000	6
Benzo(g,h,i)perylene	0.1000	-3	0.2000	1	0.5000	3	1.0000	3	2.0000	2	5.0000	-5	10.000	0
Nitrobenzene-d5	0.1000	-3	0.2000	-2	0.5000	1	1.0000	4	2.0000	2	5.0000	-1	10.000	-1
2-Fluorobiphenyl	0.1000	4	0.2000	5	0.5000	6	1.0000	4	2.0000	1	5.0000	-8	10.000	-12
Terphenyl-d14	0.1000	2	0.2000	2	0.5000	3	1.0000	4	2.0000	2	5.0000	-8	10.000	-5

JW1 07/13/18 [1,4-Dioxane]: Corrected automatically drawn baseline in multiple levels.

Analyst: JW1

Date: 07/13/18

Reviewer: LW

Date: 07/13/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301314 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528278537001

Name : 3PAHSIM
Cal Date : 12-JUL-2018

ICV 528278537015 (vgc15 12-JUL-2018) stds: S37605

Analyte	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.000	0.9263	ug/mL	-7	30	
Acenaphthylene	1.000	0.9526	ug/mL	-5	30	
Acenaphthene	1.000	0.9579	ug/mL	-4	20	
Fluorene	1.000	1.005	ug/mL	1	30	
Phenanthrene	1.000	0.9830	ug/mL	-2	30	
Anthracene	1.000	0.9534	ug/mL	-5	30	
Fluoranthene	1.000	0.9659	ug/mL	-3	20	
Pyrene	1.000	0.9444	ug/mL	-6	30	
Benzo(a)anthracene	1.000	0.9418	ug/mL	-6	30	
Chrysene	1.000	0.9209	ug/mL	-8	30	
Benzo(b)fluoranthene	1.000	0.9347	ug/mL	-7	30	
Benzo(k)fluoranthene	1.000	0.9263	ug/mL	-7	30	
Benzo(a)pyrene	1.000	0.9317	ug/mL	-7	20	
Indeno(1,2,3-cd)pyrene	1.000	0.9118	ug/mL	-9	30	
Dibenz(a,h)anthracene	1.000	0.9227	ug/mL	-8	30	
Benzo(g,h,i)perylene	1.000	0.9665	ug/mL	-3	30	

Analyst: JW1

Date: 07/13/18

Reviewer: LW

Date: 07/13/18

ENTHALPY CONTINUING CALIBRATION FOR 301314 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528280080006 File : vgd06 Time : 13-JUL-2018 13:46
 Cal : 528278537001 Caldate : 12-JUL-2018
 Standards: S36974

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	0.9961	1.0464	1.000	1.051	ug/mL	5	30	0.0500	
Acenaphthylene	1.5545	1.7469	1.000	1.124	ug/mL	12	30	0.0500	
Acenaphthene	0.9958	1.0510	1.000	1.056	ug/mL	6	20	0.0500	
Fluorene	1.1552	1.2329	1.000	1.067	ug/mL	7	30	0.0500	
Phenanthrene	0.9437	1.0199	1.000	1.081	ug/mL	8	30	0.0500	
Anthracene	0.9229	0.9926	1.000	1.076	ug/mL	8	30	0.0500	
Fluoranthene	1.1085	1.1706	1.000	1.056	ug/mL	6	20	0.0500	
Pyrene	1.3391	1.4342	1.000	1.071	ug/mL	7	30	0.0500	
Benzo(a)anthracene	1.2034	1.2867	1.000	1.069	ug/mL	7	30	0.0500	
Chrysene	1.1319	1.2083	1.000	1.068	ug/mL	7	30	0.0500	
Benzo(b)fluoranthene	1.2008	1.2374	1.000	1.031	ug/mL	3	30	0.0500	
Benzo(k)fluoranthene	1.2928	1.4007	1.000	1.084	ug/mL	8	30	0.0500	
Benzo(a)pyrene	1.0890	1.1307	1.000	1.038	ug/mL	4	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2000	1.1335	1.000	0.9446	ug/mL	-6	30	0.0500	
Dibenz(a,h)anthracene	0.9693	0.8891	1.000	0.9172	ug/mL	-8	30	0.0500	
Benzo(g,h,i)perylene	0.9616	0.9133	1.000	0.9497	ug/mL	-5	30	0.0500	
Nitrobenzene-d5	0.4133	0.3647	1.000	0.8825	ug/mL	-12	30	0.0500	
2-Fluorobiphenyl	1.4934	1.5671	1.000	1.049	ug/mL	5	30	0.0500	
Terphenyl-d14	1.1277	1.1298	1.000	1.002	ug/mL	0	30	0.0500	

Analyst: JW1 Date: 07/16/18 Reviewer: LW Date: 07/16/18

ENTHALPY CONTINUING CALIBRATION FOR 301314 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528284313004 File : vgg04 Time : 16-JUL-2018 11:50
 Cal : 528278537001 Caldate : 12-JUL-2018
 Standards: S36976

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	0.9961	1.0122	2.000	2.032	ug/mL	2	30	0.0500	
Acenaphthylene	1.5545	1.7409	2.000	2.240	ug/mL	12	30	0.0500	
Acenaphthene	0.9958	1.0401	2.000	2.089	ug/mL	4	20	0.0500	
Fluorene	1.1552	1.2140	2.000	2.102	ug/mL	5	30	0.0500	
Phenanthrene	0.9437	0.9936	2.000	2.106	ug/mL	5	30	0.0500	
Anthracene	0.9229	0.9726	2.000	2.108	ug/mL	5	30	0.0500	
Fluoranthene	1.1085	1.1597	2.000	2.092	ug/mL	5	20	0.0500	
Pyrene	1.3391	1.4120	2.000	2.109	ug/mL	5	30	0.0500	
Benzo(a)anthracene	1.2034	1.2525	2.000	2.082	ug/mL	4	30	0.0500	
Chrysene	1.1319	1.2036	2.000	2.127	ug/mL	6	30	0.0500	
Benzo(b)fluoranthene	1.2008	1.2363	2.000	2.059	ug/mL	3	30	0.0500	
Benzo(k)fluoranthene	1.2928	1.3643	2.000	2.111	ug/mL	6	30	0.0500	
Benzo(a)pyrene	1.0890	1.1275	2.000	2.071	ug/mL	4	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2000	1.0313	2.000	1.719	ug/mL	-14	30	0.0500	
Dibenz(a,h)anthracene	0.9693	0.8371	2.000	1.727	ug/mL	-14	30	0.0500	
Benzo(g,h,i)perylene	0.9616	0.8068	2.000	1.678	ug/mL	-16	30	0.0500	
Nitrobenzene-d5	0.4133	0.3327	2.000	1.610	ug/mL	-19	30	0.0500	
2-Fluorobiphenyl	1.4934	1.5291	2.000	2.048	ug/mL	2	30	0.0500	
Terphenyl-d14	1.1277	1.1037	2.000	1.957	ug/mL	-2	30	0.0500	

JW1 07/16/18 [1,4-Dioxane]: Corrected automatically drawn baseline.

Analyst: JW1 Date: 07/16/18 Reviewer: LW Date: 07/16/18

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528280080

Date : 07/13/18
 Sequence : MSBNA03 vgd

Reference : vgd06
 Analyzed : 07/13/18 13:46

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+CCV/BS+CCV/LCS+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	25094	7.46	84858	9.10	52953	11.41	98761	13.38	80453	16.85	74224	18.59
		LOWER LIMIT	12547	6.96	42429	8.60	26477	10.91	49381	12.88	40227	16.35	37112	18.09
		UPPER LIMIT	50188	7.96	169716	9.60	105906	11.91	197522	13.88	160906	17.35	148448	19.09
006	CCV	CCV	25094	7.46	84858	9.10	52953	11.41	98761	13.38	80453	16.85	74224	18.59
007	SAMPLE	301207-011	23403	7.47	79939	9.10	53277	11.41	96288	13.38	62424	16.85	40423	18.60
012	MSS	301207-008	23617	7.47	82514	9.10	50962	11.41	88084	13.38	39508 *	16.86	25771 *	18.60
013	SAMPLE	301207-010	18620	7.47	72056	9.10	46491	11.41	78495	13.38	24154 *	16.86	19610 *	18.60
014	SAMPLE	300830-001	19451	7.46	66697	9.10	49011	11.41	93205	13.38	67890	16.86	38657	18.60
015	BLANK	QC938867	23322	7.46	80262	9.10	52951	11.41	95910	13.38	72230	16.86	43636	18.60
016	BS	QC938868	23261	7.46	77643	9.10	50121	11.41	94406	13.38	70064	16.86	44125	18.59
017	BSD	QC938869	23373	7.46	79427	9.10	50612	11.41	95164	13.38	71819	16.86	45562	18.60
018	SAMPLE	301217-001	24130	7.46	81952	9.10	53707	11.41	97619	13.38	70031	16.86	44533	18.59
019	SAMPLE	301295-003	23192	7.46	79555	9.10	52262	11.41	94499	13.38	68249	16.86	41000	18.60
020	SAMPLE	301295-004	22363	7.47	77206	9.10	50836	11.41	82746	13.38	34423 *	16.86	30018 *	18.60
021	SAMPLE	301295-005	19025	7.47	70656	9.10	48681	11.41	86250	13.38	24322 *	16.85	20444 *	18.60
022	SAMPLE	301295-006	17271	7.47	63251	9.10	42399	11.41	81878	13.38	46831	16.86	22995 *	18.59
023	SAMPLE	301295-007	21484	7.46	75335	9.10	49987	11.41	91840	13.38	58696	16.86	33697 *	18.60
024	SAMPLE	301314-001	23005	7.46	77918	9.10	50956	11.41	94287	13.38	60433	16.86	38319	18.60
025	SAMPLE	301314-002	24061	7.46	81727	9.10	53155	11.41	97749	13.38	62686	16.86	41982	18.60
026	SAMPLE	301314-003	23357	7.46	78955	9.10	44624	11.41	93377	13.38	58715	16.86	39167	18.59
027	BLANK	QC938982	23193	7.47	81029	9.10	53185	11.41	97842	13.38	69800	16.85	43904	18.59

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528284313

Date : 07/16/18
 Sequence : MSBNA03 vgg

Reference : vgg04
 Analyzed : 07/16/18 11:50

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+CCV/BS+CCV/LCS+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	22952	7.47	77907	9.10	48706	11.41	93960	13.37	76876	16.85	67002	18.59
		LOWER LIMIT	11476	6.97	38954	8.60	24353	10.91	46980	12.87	38438	16.35	33501	18.09
		UPPER LIMIT	45904	7.97	155814	9.60	97412	11.91	187920	13.87	153752	17.35	134004	19.09
004	CCV	CCV	22952	7.47	77907	9.10	48706	11.41	93960	13.37	76876	16.85	67002	18.59
005	LCS	QC938983	23454	7.47	82111	9.10	51930	11.41	100638	13.37	83872	16.85	71783	18.59
006	BLANK	QC939515	22479	7.47	79798	9.10	51772	11.41	98818	13.37	84451	16.85	69401	18.59
007	LCS	QC939516	22364	7.47	79121	9.10	49964	11.41	96506	13.37	80737	16.84	69210	18.59
008	SAMPLE	301412-006	22307	7.47	78695	9.10	52092	11.41	98742	13.37	84675	16.85	69142	18.58
009	SAMPLE	301413-006	23318	7.47	82804	9.09	54170	11.41	100679	13.37	81958	16.85	66808	18.59
010	MSS	301331-001	21897	7.47	77223	9.10	51714	11.41	97323	13.37	76547	16.85	65355	18.59
011	MS	QC938984	22557	7.47	78377	9.10	49770	11.41	96249	13.37	73982	16.85	65504	18.58
012	MSD	QC938985	21586	7.47	75451	9.10	47133	11.41	92561	13.37	72004	16.84	63171	18.58
013	SAMPLE	301323-001	22344	7.47	79623	9.10	51639	11.41	97088	13.37	72898	16.85	61097	18.59
014	SAMPLE	301323-002	21363	7.47	76708	9.10	50225	11.41	93027	13.37	66940	16.84	54592	18.59
015	SAMPLE	301323-003	21505	7.46	76044	9.10	49997	11.41	91834	13.37	76041	16.85	63658	18.59
016	SAMPLE	301323-004	21225	7.47	74702	9.10	49689	11.41	93615	13.37	71366	16.85	53417	18.59
017	SAMPLE	301323-005	21381	7.46	76158	9.10	50371	11.41	94071	13.37	67728	16.84	50385	18.59
018	SAMPLE	301323-006	21262	7.46	75874	9.09	50345	11.41	94698	13.37	75904	16.85	60788	18.59
019	MSS	301393-001	21481	7.46	76952	9.09	50448	11.41	95437	13.37	78707	16.84	65707	18.58
020	MS	QC939517	21902	7.47	77375	9.09	49807	11.41	95372	13.36	77461	16.85	66918	18.58
021	MSD	QC939518	21514	7.47	75924	9.09	47889	11.41	91816	13.36	74681	16.85	65176	18.58
022	SAMPLE	301314-003	21460	7.46	74845	9.09	38566	11.41	89730	13.36	68093	16.84	62562	18.58
023	SAMPLE	301295-005	21039	7.46	75061	9.10	48893	11.41	87352	13.37	44296	16.84	38265	18.59
024	SAMPLE	301295-006	17183	7.46	68152	9.10	46395	11.41	88161	13.37	61902	16.85	43179	18.59
025	SAMPLE	301393-002	21264	7.47	77166	9.10	50110	11.41	93666	13.37	70234	16.85	56594	18.58

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528280080

Instrument : MSBNA03 Begun : 07/13/18 12:00
 Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv6, bna_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vgd01	IB	IB			07/13/18 12:00	1.0		?t
002	vgd02	IB	IB			07/13/18 12:32	1.0		?t
003	vgd03	TUN	DFTPP/PEM			07/13/18 12:58	1.0	1	t
004	vgd04	TUN	DFTPP/PEM			07/13/18 13:12	1.0	1	t
005	vgd05	TUN	DFTPP/PEM			07/13/18 13:26	1.0	1	
006	vgd06	CCV	CCV			07/13/18 13:46	1.0	2	
007	vgd07	SAMPLE	301207-011	Soil	261140	07/13/18 14:18	2.0	3	
008	vgd08	MSS	300950-002	Soil	260819	07/13/18 14:50	25.0	3	
009	vgd09	SAMPLE	300950-004	Soil	260819	07/13/18 15:22	1.0	3	
010	vgd10	SAMPLE	300950-005	Soil	260819	07/13/18 15:55	1.0	3	
011	vgd11	SAMPLE	300950-006	Soil	260819	07/13/18 16:27	1.0	3	
012	vgd12	MSS	301207-008	Soil	261140	07/13/18 16:58	1.0	3	
013	vgd13	SAMPLE	301207-010	Soil	261140	07/13/18 17:30	1.0	3	
014	vgd14	SAMPLE	300830-001	Water	260740	07/13/18 18:01	1.0	3	
015	vgd15	BLANK	QC938867	Water	261249	07/13/18 18:33	1.0	3	
016	vgd16	BS	QC938868	Water	261249	07/13/18 19:05	1.0	3	
017	vgd17	BSD	QC938869	Water	261249	07/13/18 19:37	1.0	3	
018	vgd18	SAMPLE	301217-001	Water	261249	07/13/18 20:08	1.0	3	
019	vgd19	SAMPLE	301295-003	Soil	261140	07/13/18 20:40	10.0	3	
020	vgd20	SAMPLE	301295-004	Soil	261140	07/13/18 21:12	3.0	3	
021	vgd21	SAMPLE	301295-005	Soil	261140	07/13/18 21:44	1.0	3	
022	vgd22	SAMPLE	301295-006	Soil	261140	07/13/18 22:16	1.0	3	
023	vgd23	SAMPLE	301295-007	Soil	261140	07/13/18 22:48	25.0	3	
024	vgd24	SAMPLE	301314-001	Water	261249	07/13/18 23:20	1.0	3	
025	vgd25	SAMPLE	301314-002	Water	261249	07/13/18 23:52	1.0	3	
026	vgd26	SAMPLE	301314-003	Water	261249	07/14/18 00:25	1.0	3	
027	vgd27	BLANK	QC938982	Soil	261280	07/14/18 00:57	1.0	3	
028	vgd28	CCV	CCV			07/14/18 01:30	1.0	2	<<t

JW1 07/16/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 28.

JW1 07/16/18 : adjusted voltage reran tune and ccv to pass.

266

LIMS Batch No: 261249 Extraction Method:

Page 27 BK 4266

LIMS Analysis: 8270-SIM EPA 3520c cont. L/L

Date Extracted: 7/9/18

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Confirmed Adjusted pH	Comments
301234	E	1000	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
301314-001	G	1050	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
1	2	1000	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
1	3	1000	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
MBQC938867	N/A	1000	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
BS	8	1000	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
BSD	9	1000	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	
			<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> ≤ 2 <input type="checkbox"/> ≥ 11	

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 301314-001 Client ID : BR11-1GW01
 Seqnum : 528280080024 Matrix : Water Acct : TRC-SF (MJD)
 File : vgd24 Batch : 261249 Time : 13-JUL-2018 23:20
 Cal : 528278537001 Caldate : 12-JUL-2018
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1050.00 mL --> 1.0 ml = 0.0009524 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.03870	0.04 J	0.1		u
Acenaphthylene	0.001400	ND	0.1		u
Acenaphthene	0.004100	ND	0.1		u
Fluorene	0.004500	ND	0.1		u
Phenanthrene	0.007700	ND	0.1		u
Anthracene	0.001500	ND	0.1		u
Fluoranthene	0.007800	ND	0.1		u
Pyrene	0.01040	ND	0.1		u
Benzo(a)anthracene	0.005800	ND	0.1		u
Chrysene	0.003500	ND	0.1		u
Benzo(b)fluoranthene	0.006000	ND	0.1		u
Benzo(k)fluoranthene	0.005500	ND	0.1		u
Benzo(a)pyrene	0.005800	ND	0.1		u
Indeno(1,2,3-cd)pyrene	0.005400	ND	0.1		u
Dibenz(a,h)anthracene	0	ND	0.1		u
Benzo(g,h,i)perylene	0.007900	ND	0.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.8859	0.9524	0.8437	89	48-124	u
2-Fluorobiphenyl	0.8779	0.9524	0.8361	88	51-120	u
Terphenyl-d14	1.162	0.9524	1.107	116	25-120	u

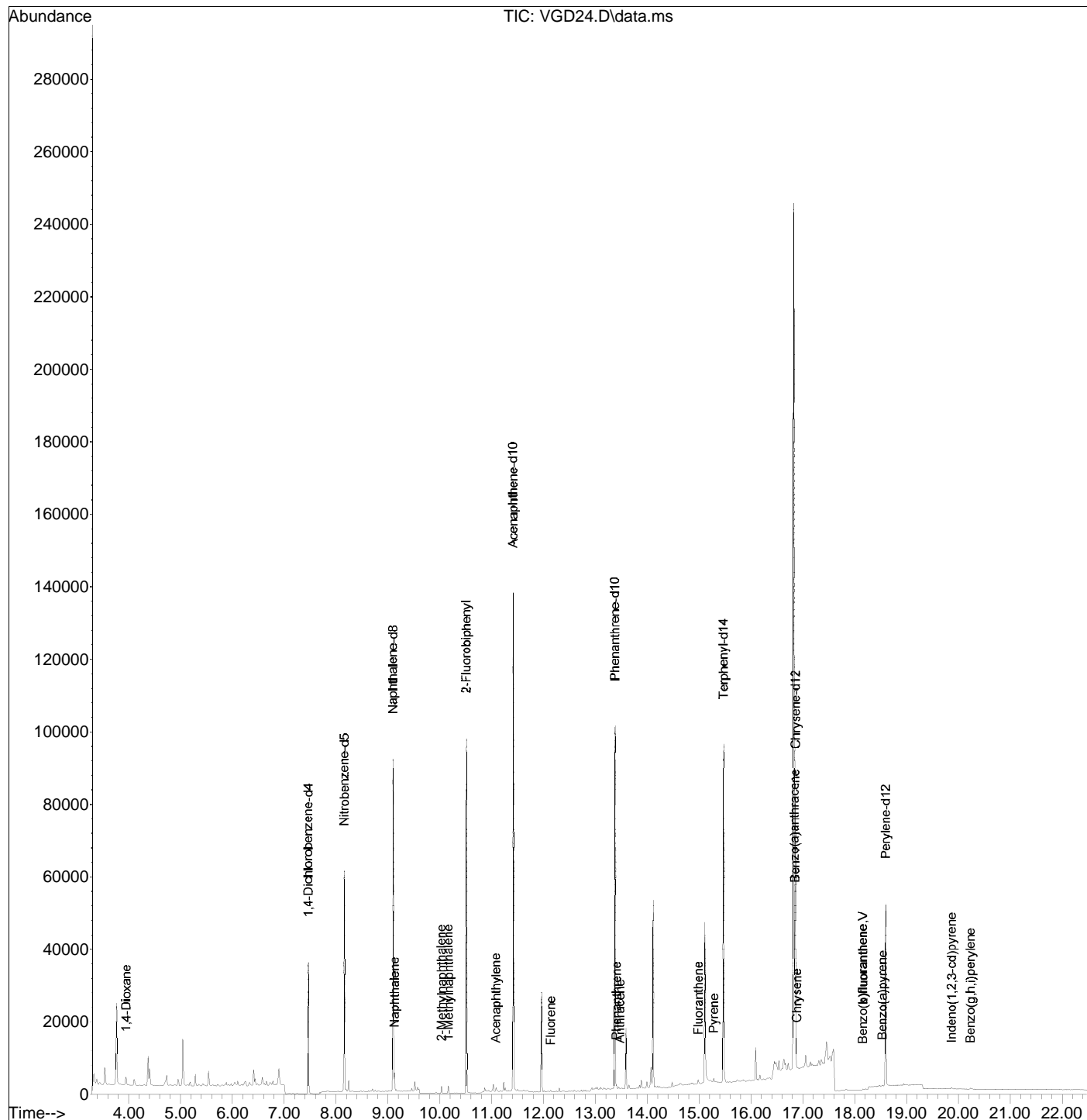
ISTD (CCV vgd06)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	84858	77918	-8.18	9.10	9.10	0.00
Acenaphthene-d10	52953	50956	-3.77	11.41	11.41	0.00
Phenanthrene-d10	98761	94287	-4.53	13.38	13.38	0.00
Chrysene-d12	80453	60433	-24.88	16.85	16.86	0.01
Perylene-d12	74224	38319	-48.37	18.59	18.60	0.01

Analyst: JW1 Date: 07/17/18 Reviewer: LW Date: 07/17/18

u=use

Data Path : G:\csinput.net\DATA\071318\
 Data File : VGD24.D
 Acq On : 13 Jul 2018 11:20 pm
 Operator :
 Sample : S,301314-001
 Misc : 261249,1,
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 13 23:43:28 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\071318\
 Data File : VGD24.D
 Acq On : 13 Jul 2018 11:20 pm
 Operator :
 Sample : S,301314-001
 Misc : 261249,1,
 ALS Vial : 24 Sample Multiplier: 1

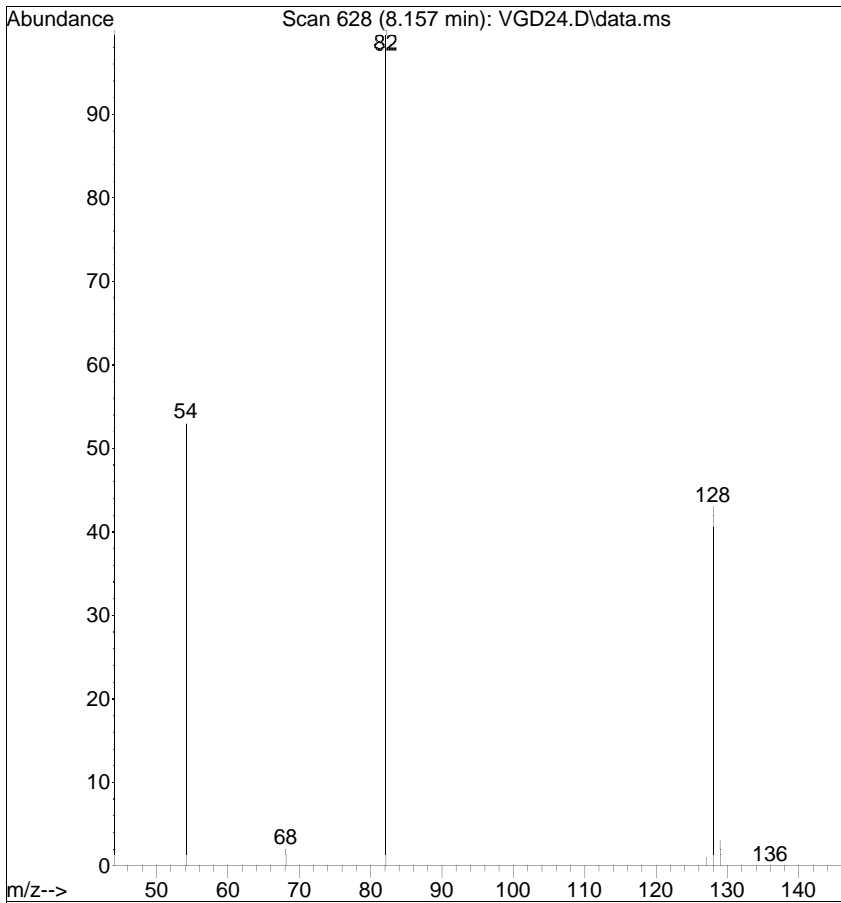
Quant Time: Jul 13 23:43:28 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.461	152	23005	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.097	136	77918	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.413	164	50956	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.378	188	94287	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	60433	1.0000	ug/mL	0.00
23) Perylene-d12	18.596	264	38319	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.951	88	427	0.3933	ug/mL	# 66
4) Nitrobenzene-d5	8.157	82	28527	0.8859	ug/mL	# 75
5) Naphthalene	9.125	128	3000	0.0387	ug/mL	93
6) 2-Methylnaphthalene	10.034	142	1007	0.0168	ug/mL	93
7) 1-Methylnaphthalene	10.165	142	1042	0.0190	ug/mL	100
9) 2-Fluorobiphenyl	10.511	172	66806	0.8779	ug/mL	99
10) Acenaphthylene	11.083	152	112	0.0014	ug/mL	# 1
11) Acenaphthene	11.413	154	209	0.0041	ug/mL	# 50
12) Fluorene	12.136	166	262	0.0045	ug/mL	# 80
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.407	178	681	0.0077	ug/mL	71
16) Anthracene	13.472	178	132	0.0015	ug/mL	# 1
17) Fluoranthene	14.982	202	820	0.0078	ug/mL	# 60
19) Pyrene	15.283	202	840	0.0104	ug/mL	# 69
20) Terphenyl-d14	15.468	244	79204	1.1621	ug/mL	90
21) Benzo(a)anthracene	16.836	228	421	0.0058	ug/mL	# 18
22) Chrysene	16.885	228	237	0.0035	ug/mL	# 37
24) Benzo(b)fluoranthene	18.157	252	274	0.0060	ug/mL	# 1
25) Benzo(k)fluoranthene	18.157	252	274	0.0055	ug/mL	# 1
26) Benzo(a)pyrene	18.533	252	244	0.0058	ug/mL	# 1
27) Indeno(1,2,3-cd)pyrene	19.867	276	248	0.0054	ug/mL	# 1
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
29) Benzo(g,h,i)perylene	20.234	276	290	0.0079	ug/mL	# 6

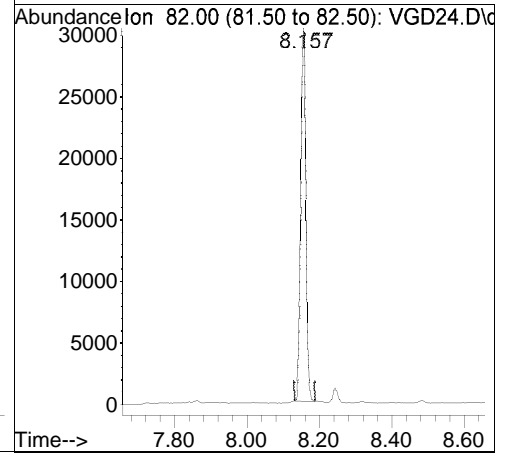
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

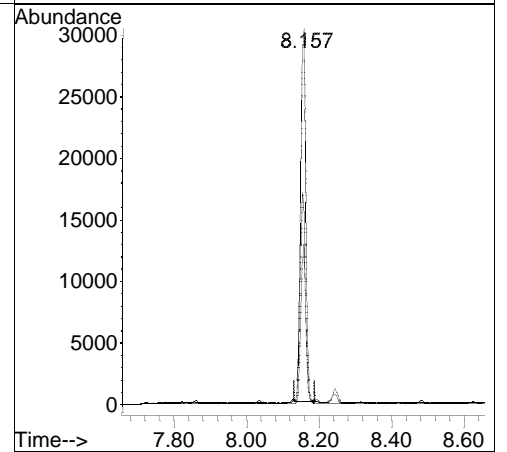
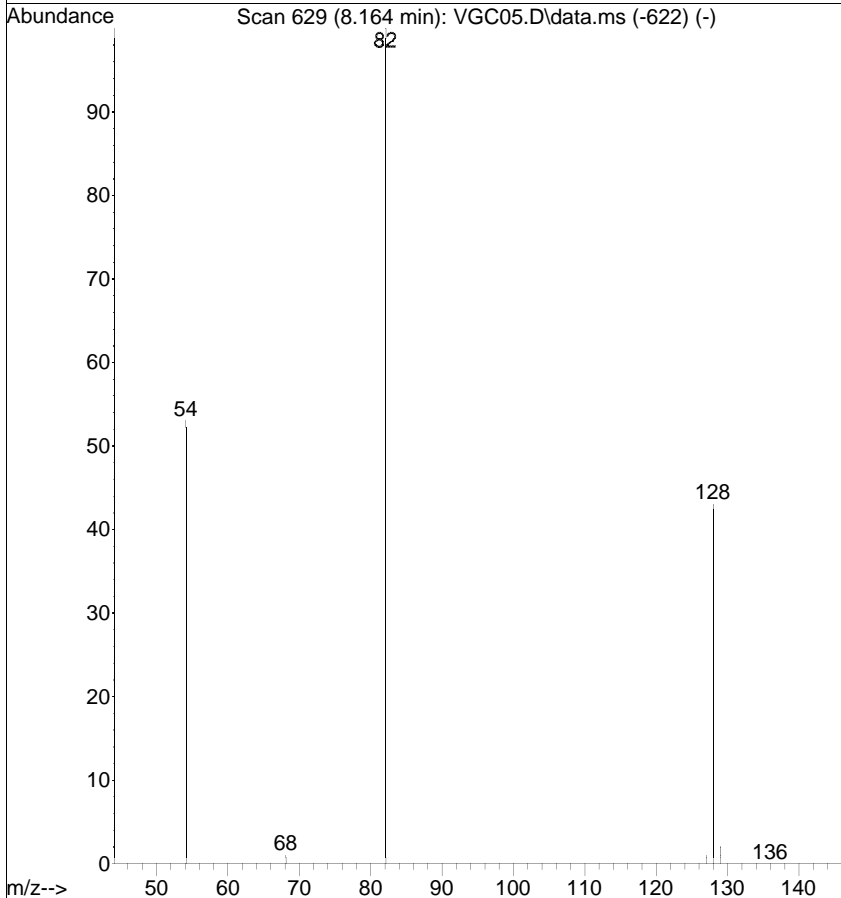


#4
 Nitrobenzene-d5
 Concen: 0.8859 ug/mL
 RT: 8.157 min Scan# 628
 Delta R.T. -0.004 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

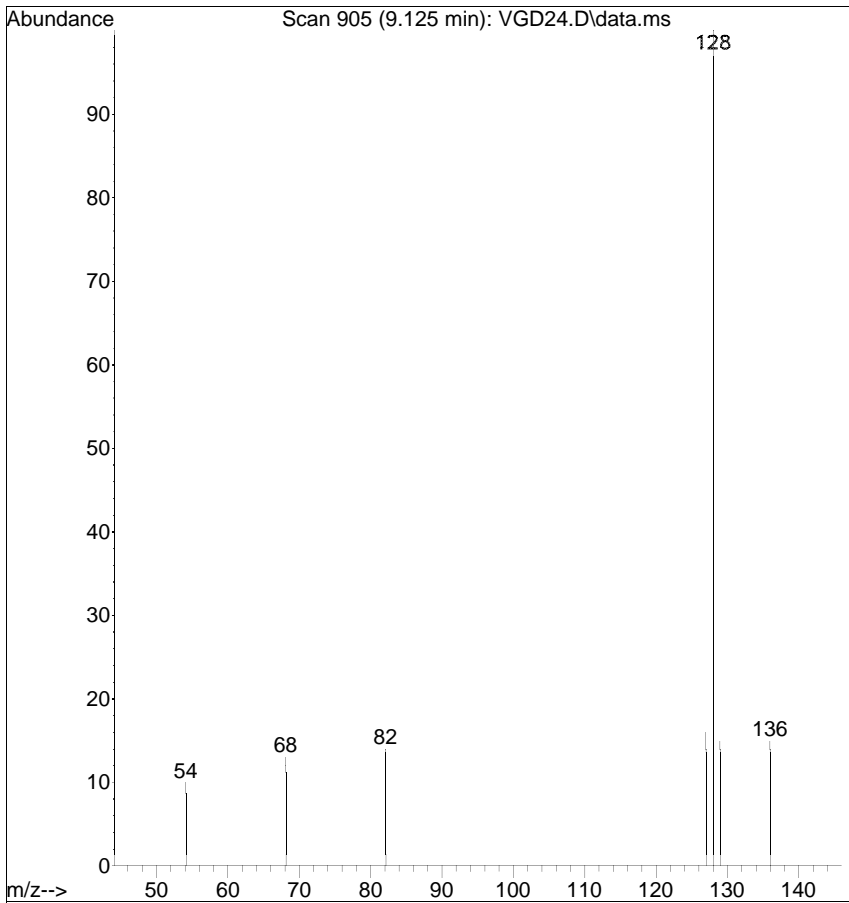
Tgt Ion	Resp	Lower	Upper
82	28527		
128	42.5	10.5	50.5
54	53.2	56.2	96.2#



Ref

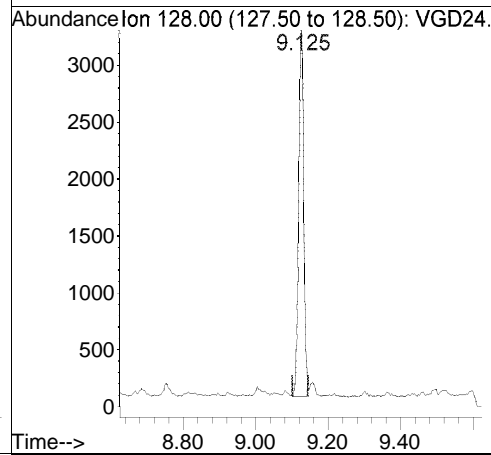


Raw

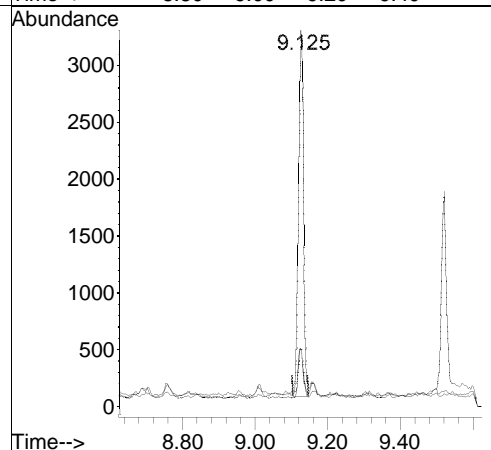
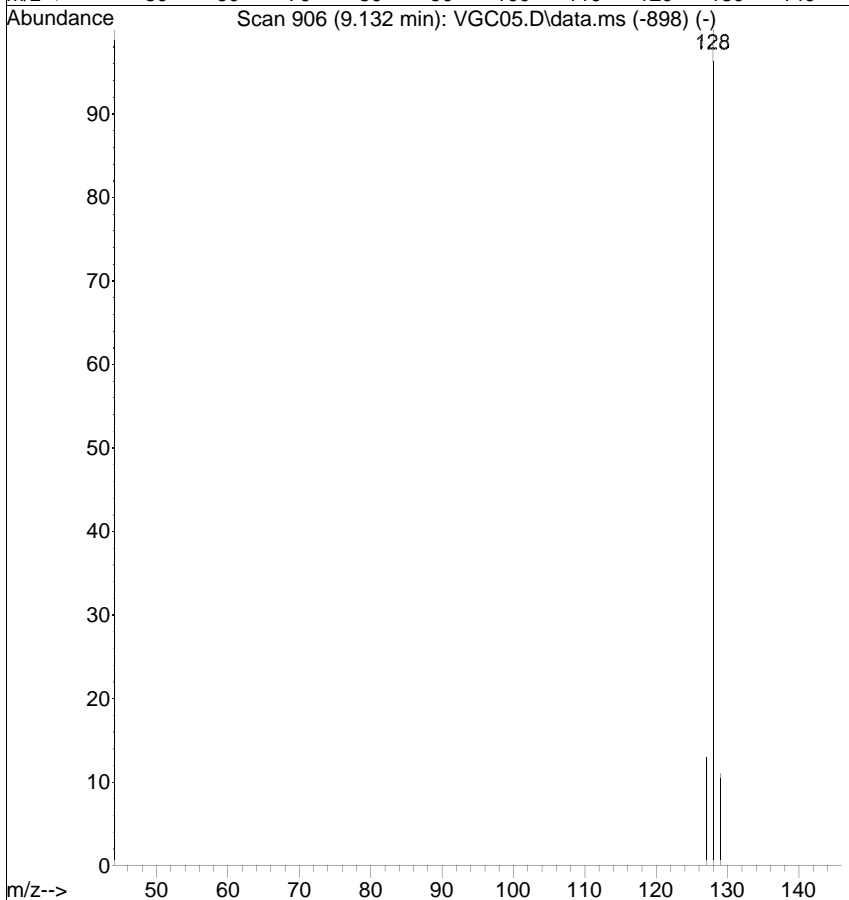


#5
 Naphthalene
 Concen: 0.0387 ug/mL
 RT: 9.125 min Scan# 905
 Delta R.T. -0.004 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

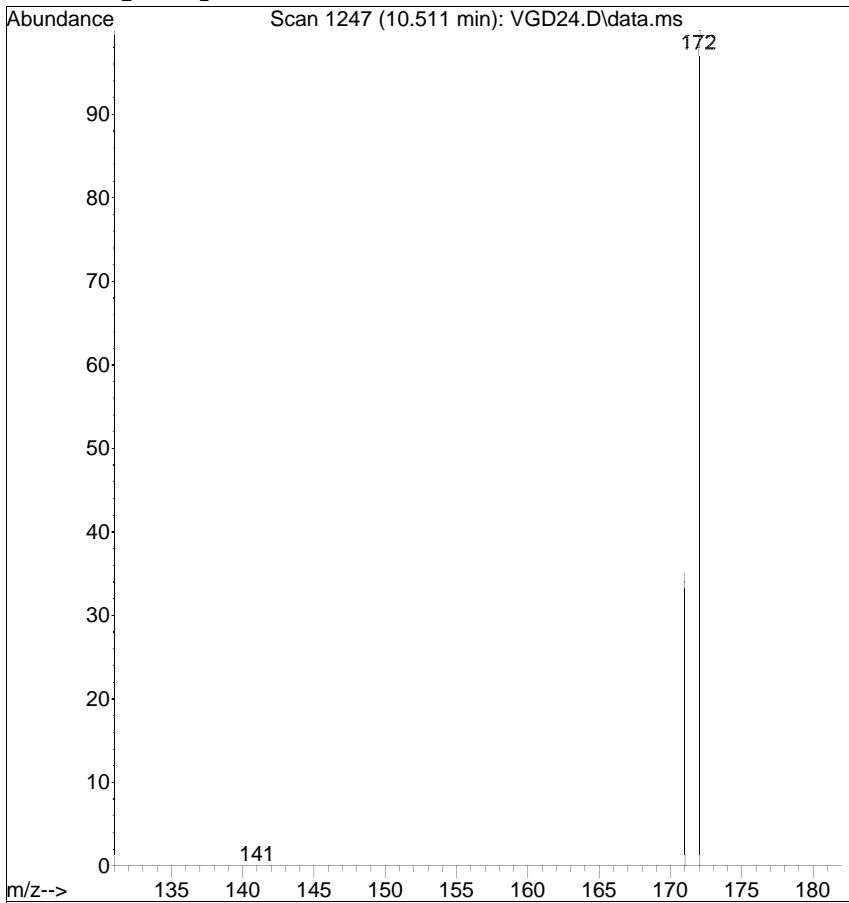
Tgt Ion	Resp	Lower	Upper
128	3000		
129	15.4	0.0	31.1
127	15.6	0.0	34.0



Ref

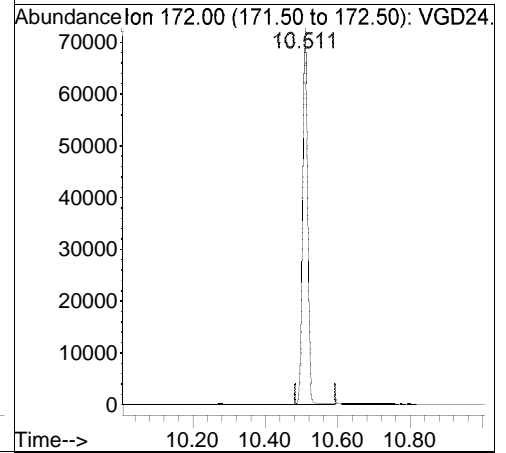


Raw

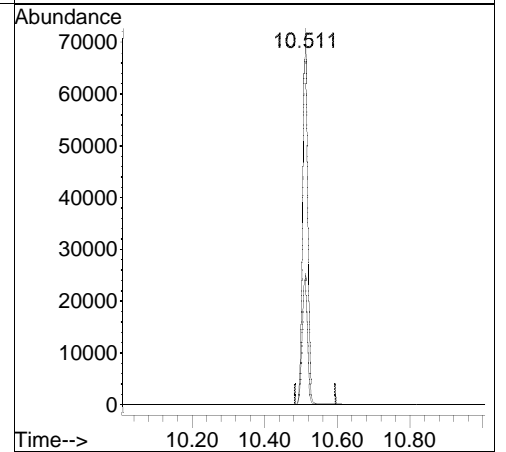
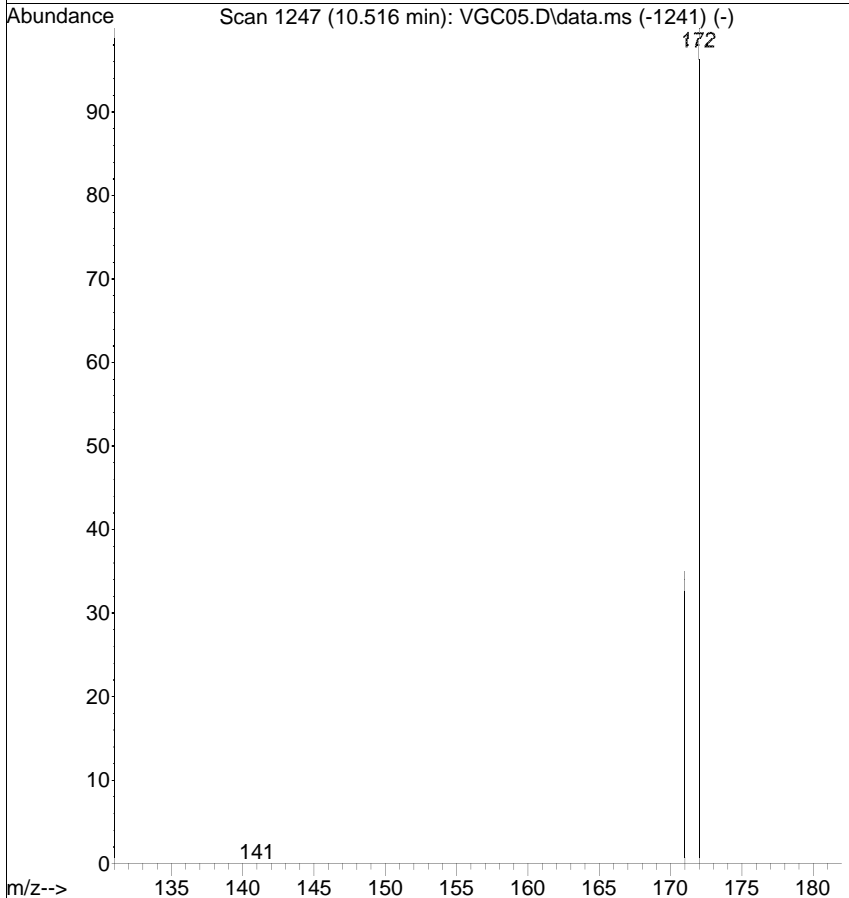


#9
 2-Fluorobiphenyl
 Concen: 0.8779 ug/mL
 RT: 10.511 min Scan# 1247
 Delta R.T. -0.000 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

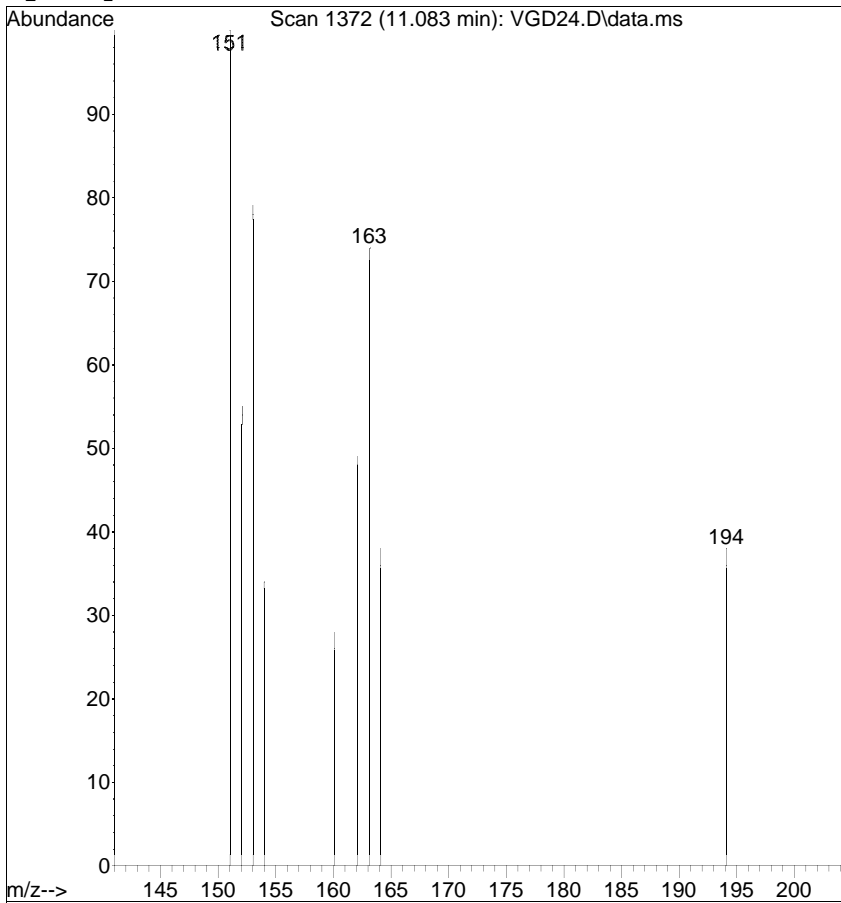
Tgt Ion	Resp	Lower	Upper
172	66806		
171	34.9	14.4	54.4



Ref

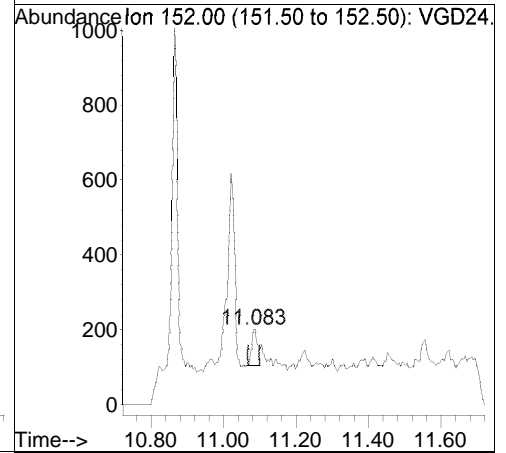


Raw

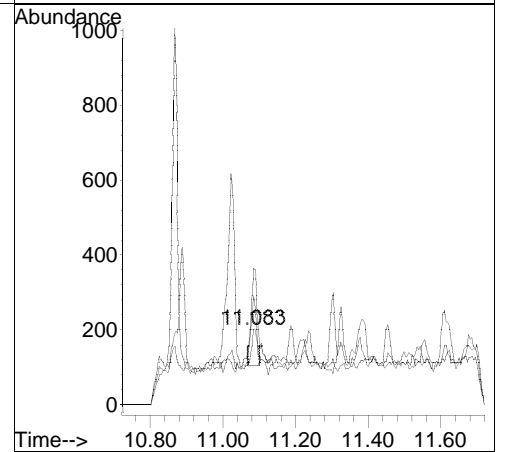
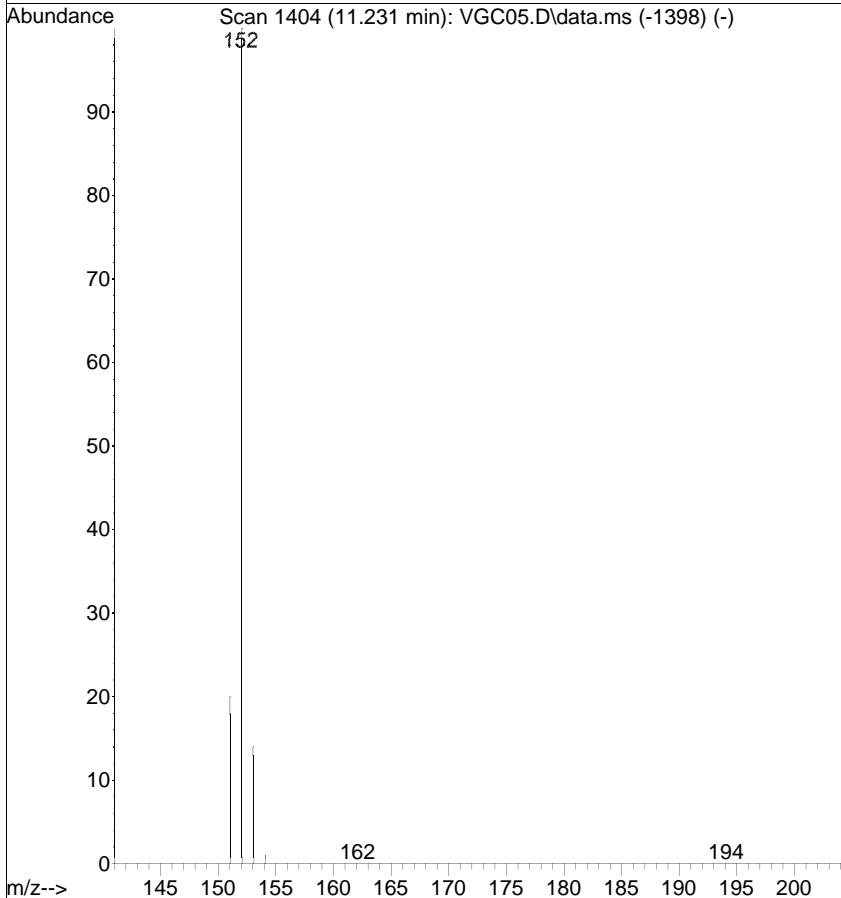


#10
 Acenaphthylene
 Concen: 0.0014 ug/mL
 RT: 11.083 min Scan# 1372
 Delta R.T. -0.143 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

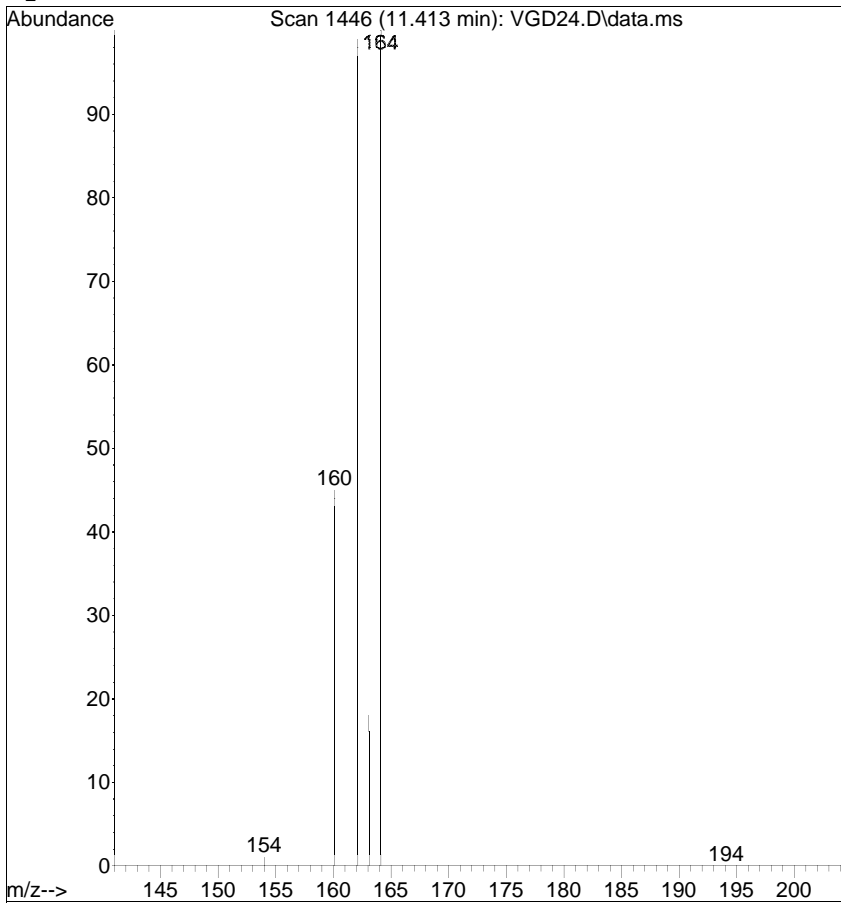
Tgt Ion	Resp	Lower	Upper
152	100		
151	181.6	1.0	41.0#
153	143.8	0.0	33.1#



Ref

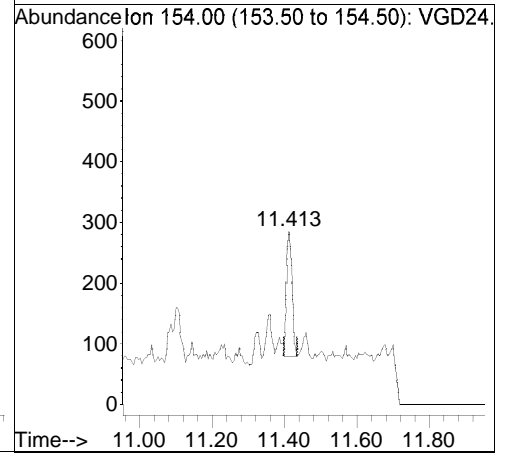


Raw

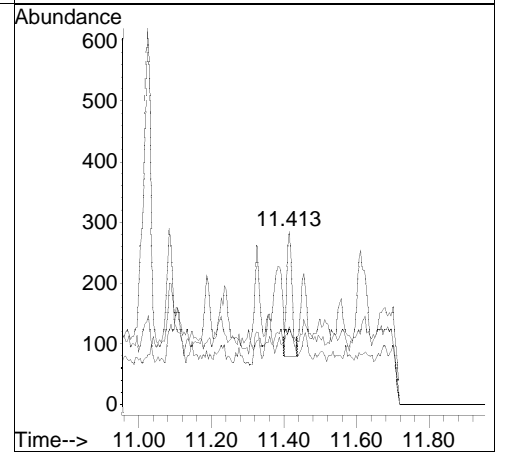
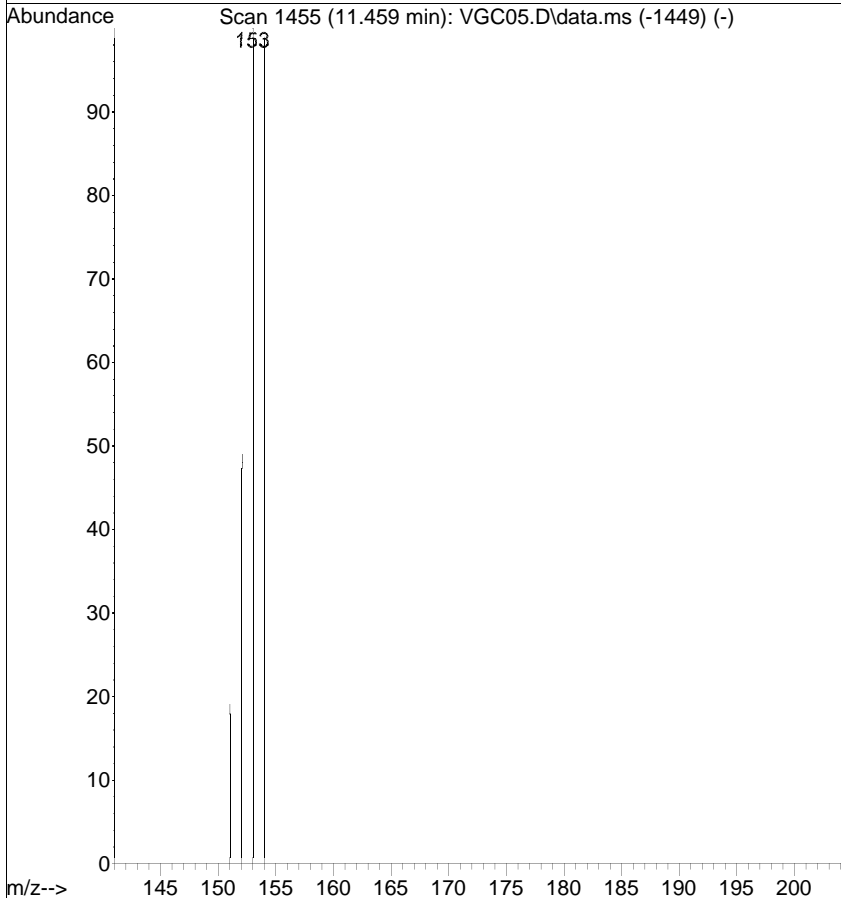


#11
 Acenaphthene
 Concen: 0.0041 ug/mL
 RT: 11.413 min Scan# 1446
 Delta R.T. -0.045 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

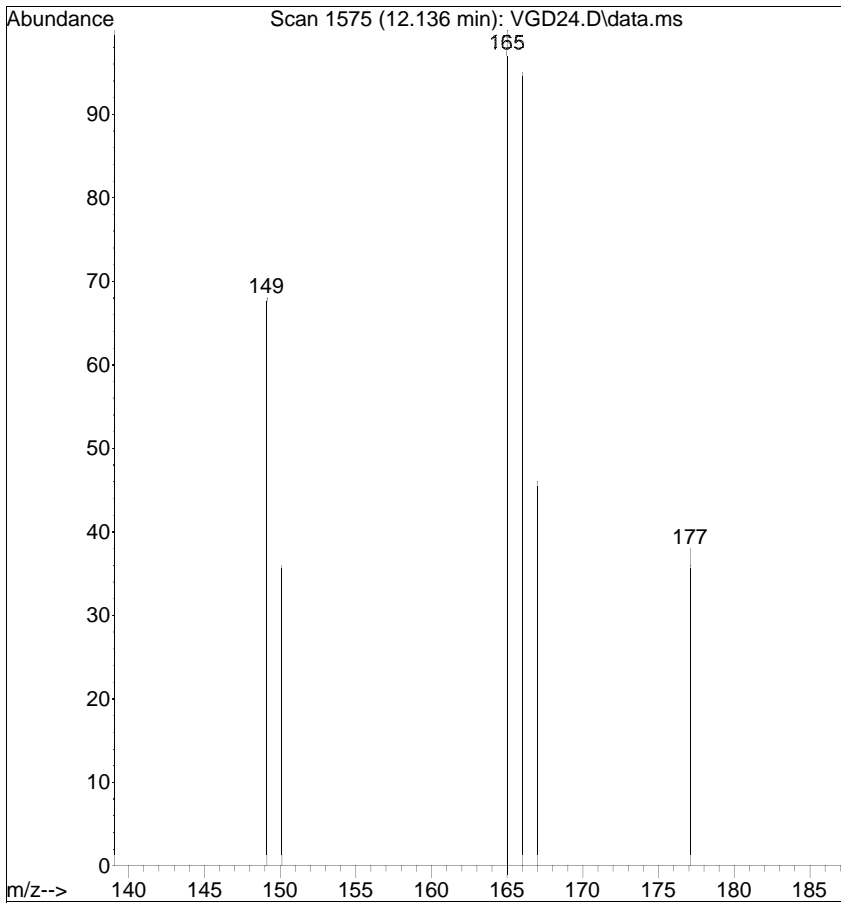
Tgt Ion	Ratio	Lower	Upper
154	100		
152	45.3	35.4	75.4
153	43.9	96.8	136.8#



Ref

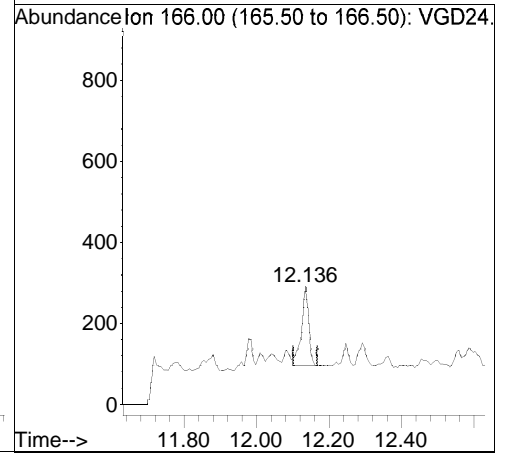


Raw

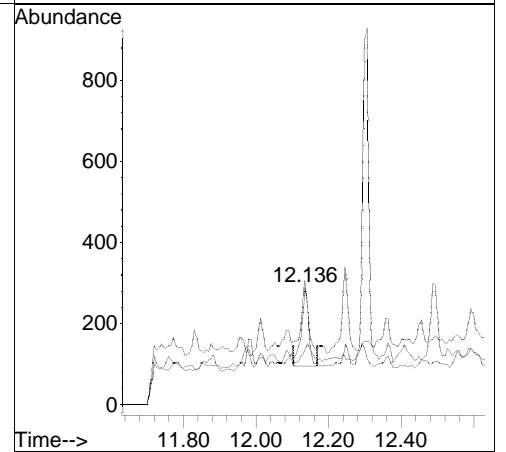
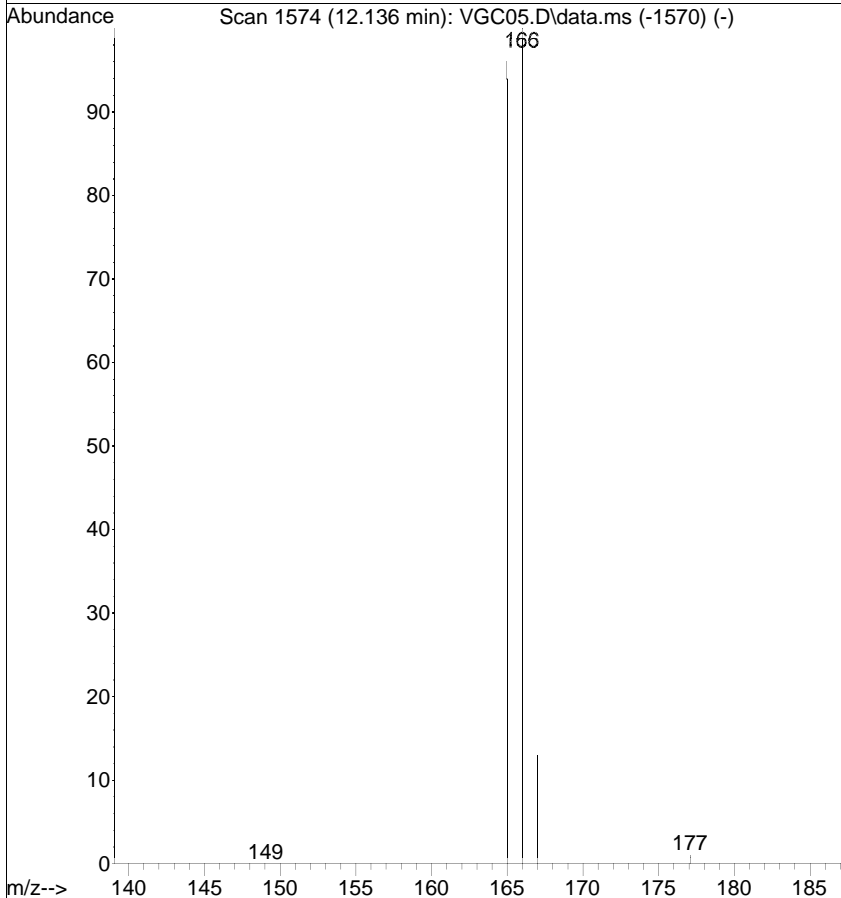


#12
 Fluorene
 Concen: 0.0045 ug/mL
 RT: 12.136 min Scan# 1575
 Delta R.T. -0.000 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

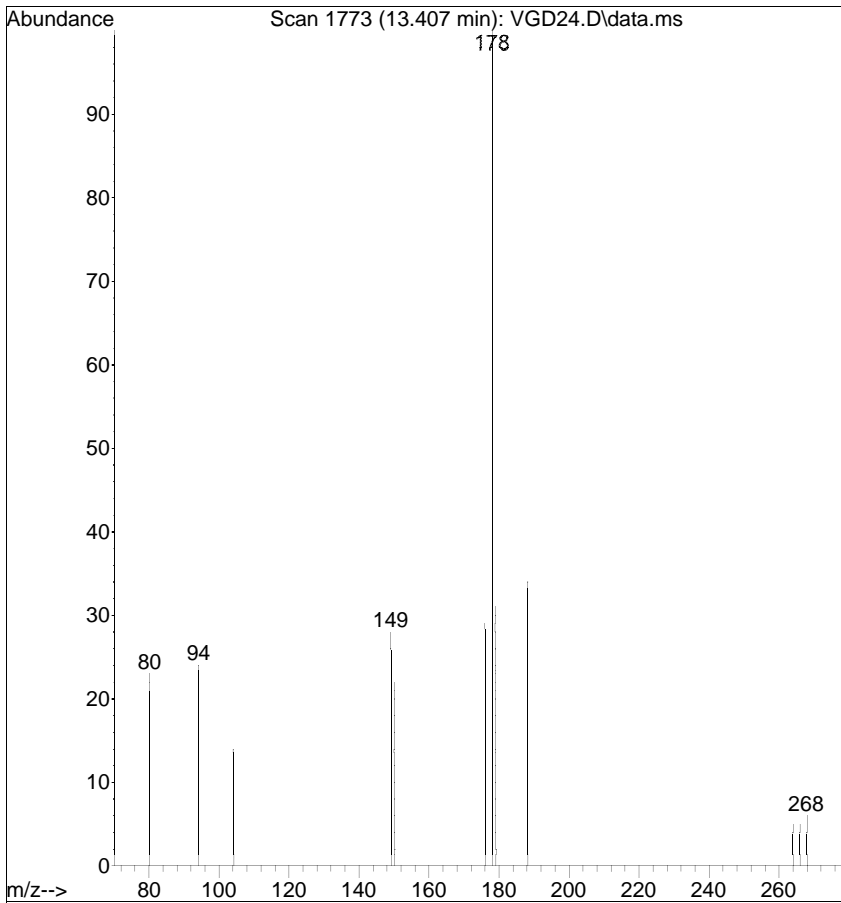
Tgt Ion	Resp	Lower	Upper
166	100		
165	105.2	74.9	114.9
167	47.9	0.0	33.9#



Ref

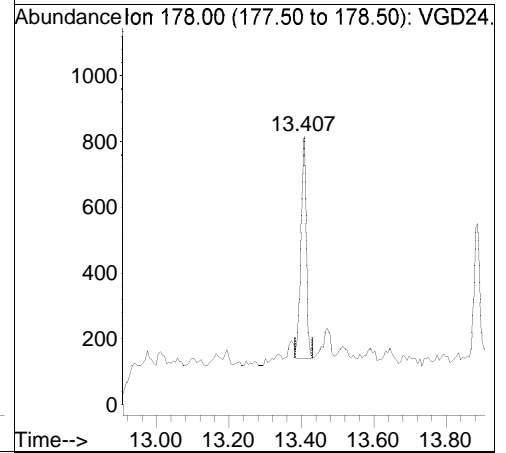


Raw

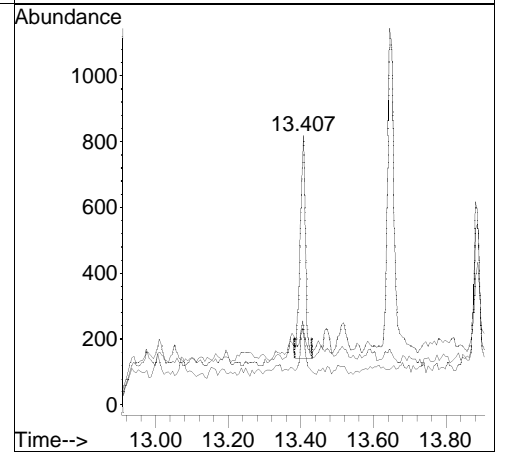
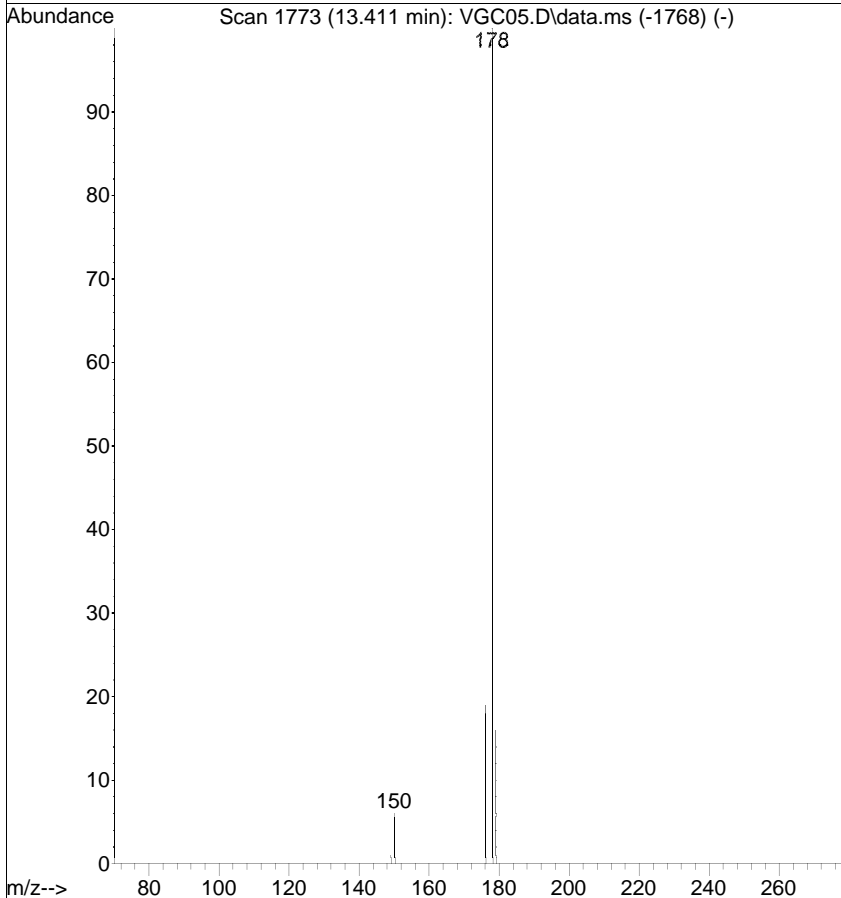


#15
 Phenanthrene
 Concen: 0.0077 ug/mL
 RT: 13.407 min Scan# 1773
 Delta R.T. 0.001 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

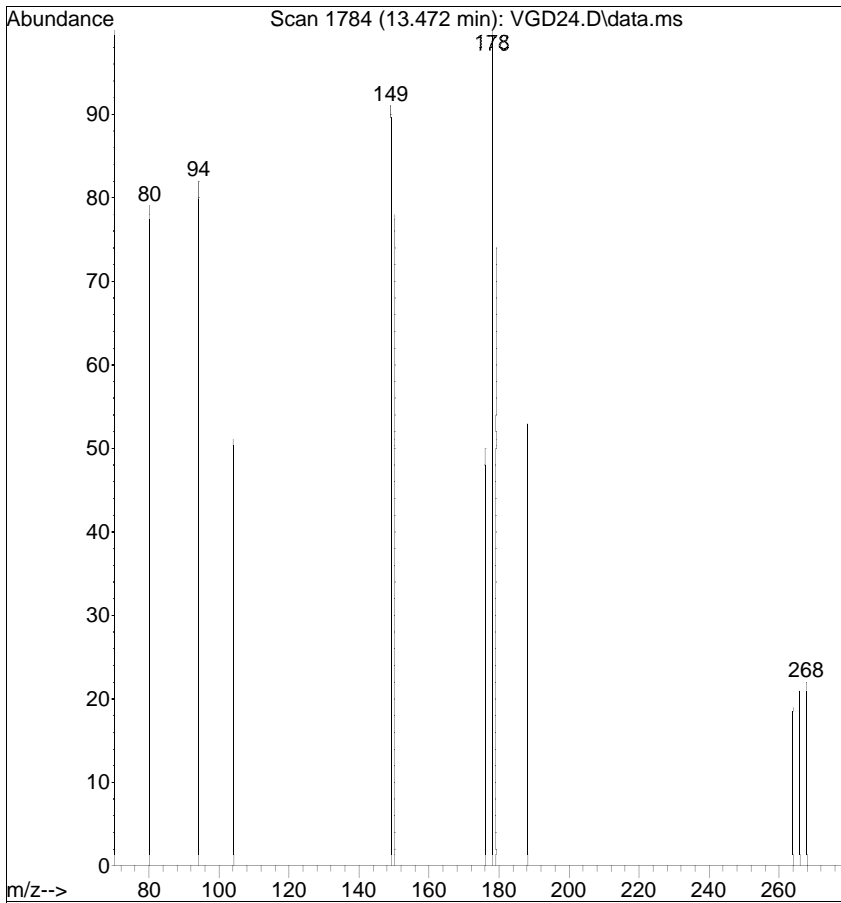
Tgt Ion	Resp	Lower	Upper
178	100		
179	31.2	0.0	35.0
176	28.6	0.0	38.9



Ref

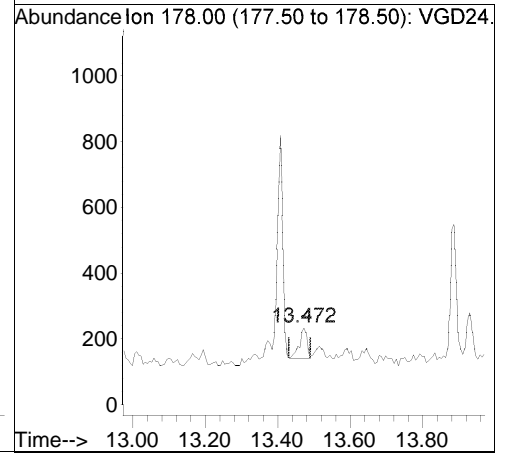


Raw

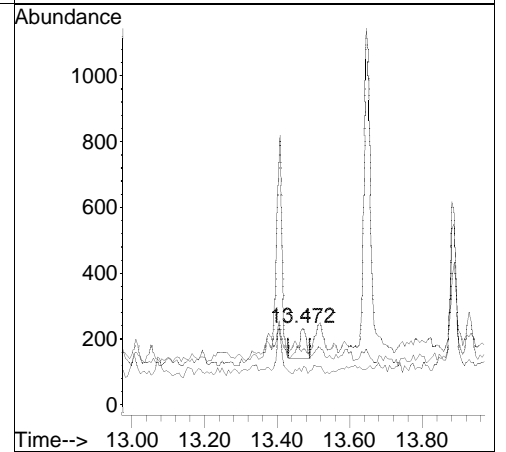
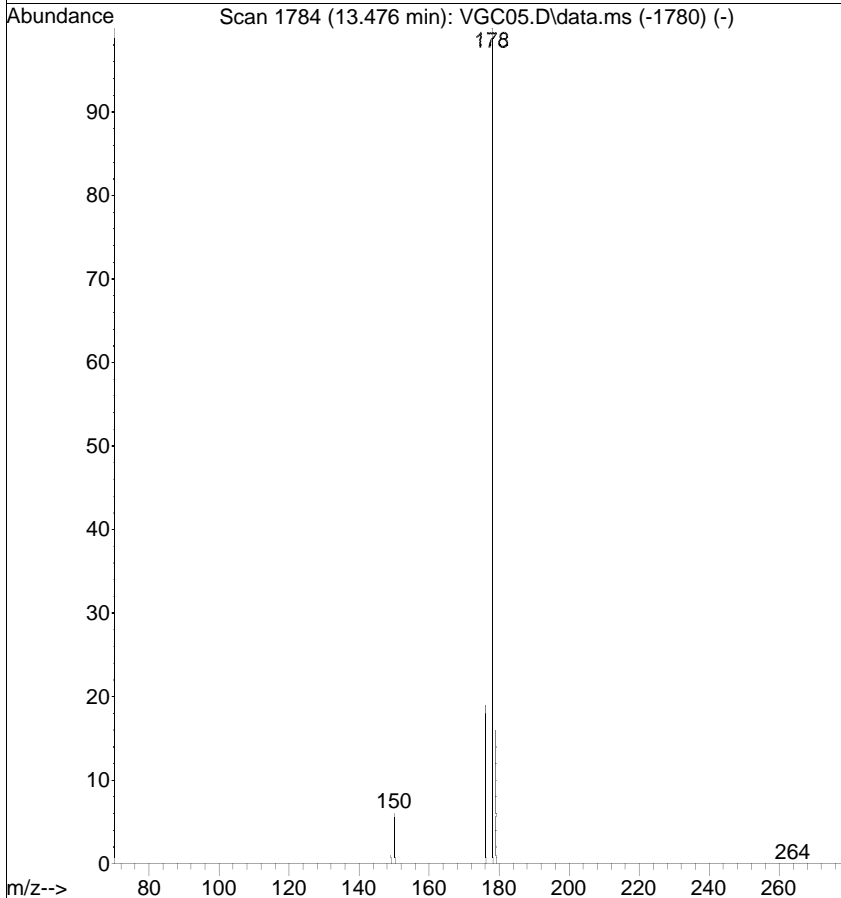


#16
 Anthracene
 Concen: 0.0015 ug/mL
 RT: 13.472 min Scan# 1784
 Delta R.T. 0.001 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

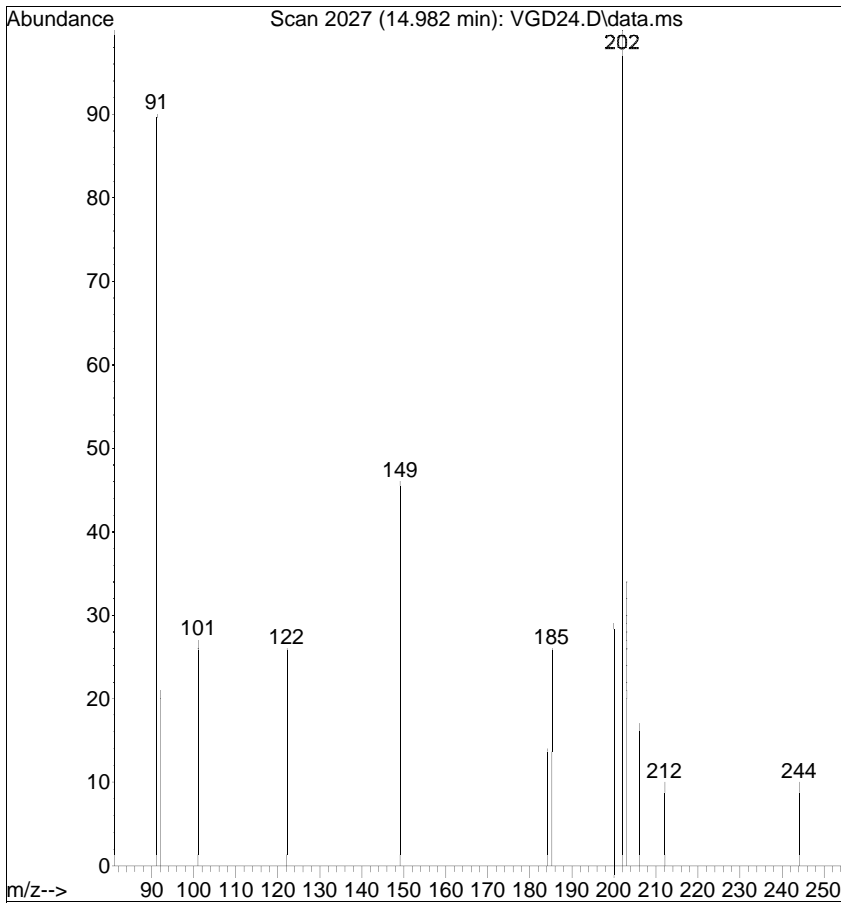
Tgt Ion	Ratio	Lower	Upper
178	100		
179	73.9	0.0	34.4#
176	49.6	0.0	39.5#



Ref

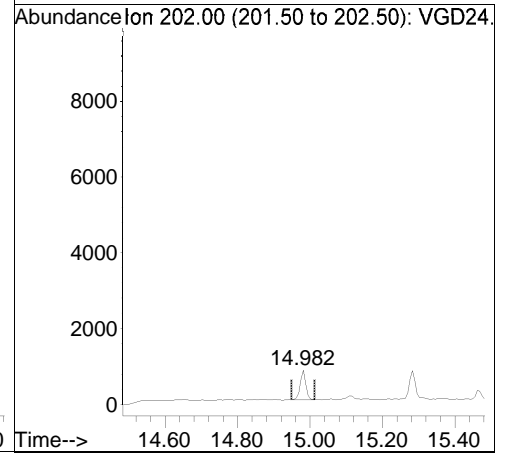


Raw

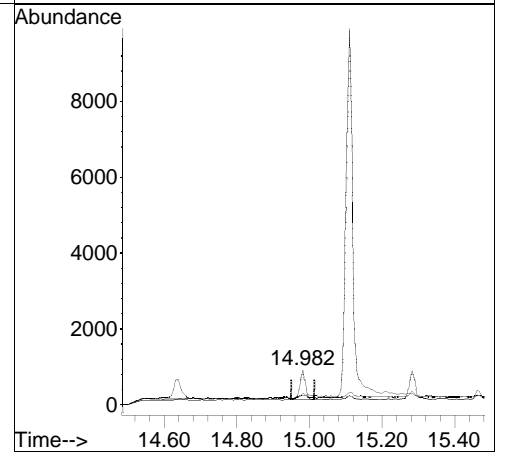
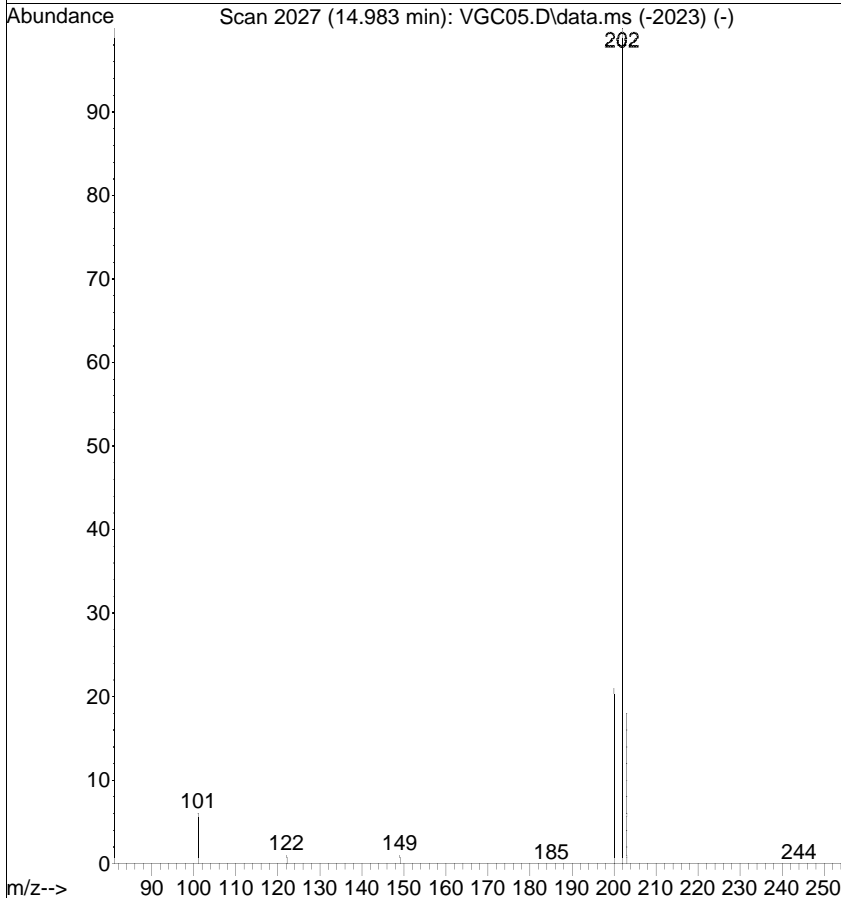


#17
 Fluoranthene
 Concen: 0.0078 ug/mL
 RT: 14.982 min Scan# 2027
 Delta R.T. -0.000 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

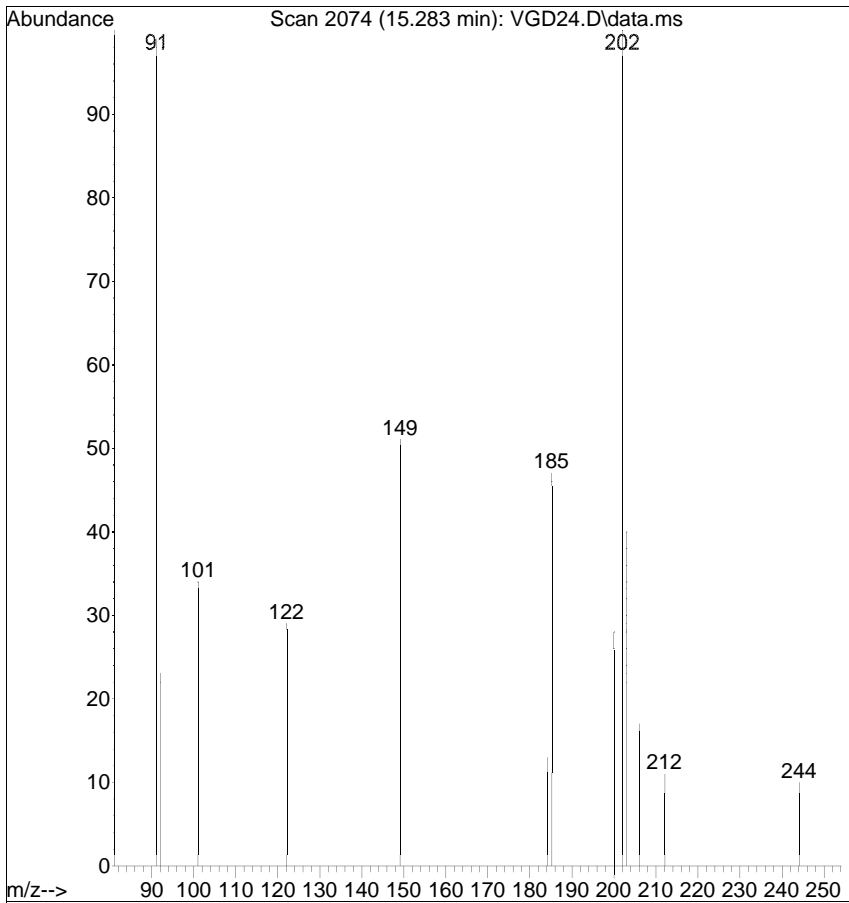
Tgt Ion	Resp	Lower	Upper
202	820		
101	27.2	0.0	21.1#
203	33.6	0.0	37.0



Ref

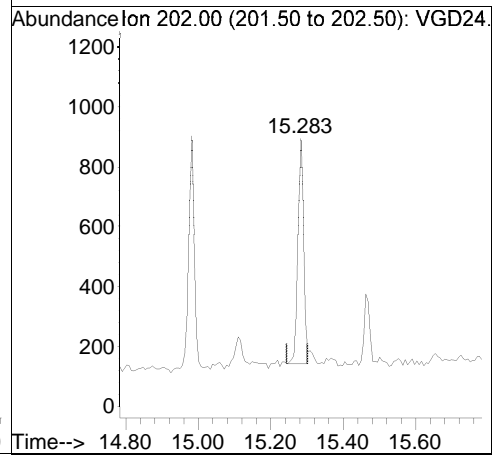


Raw

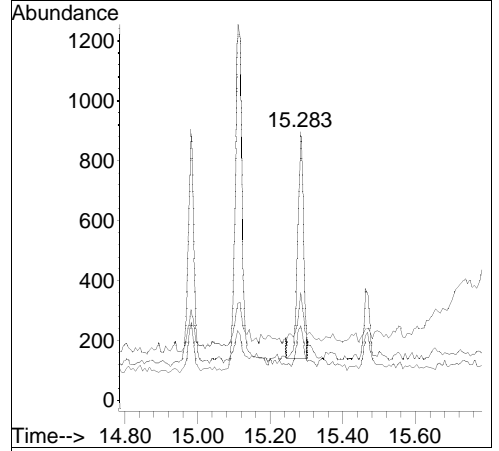
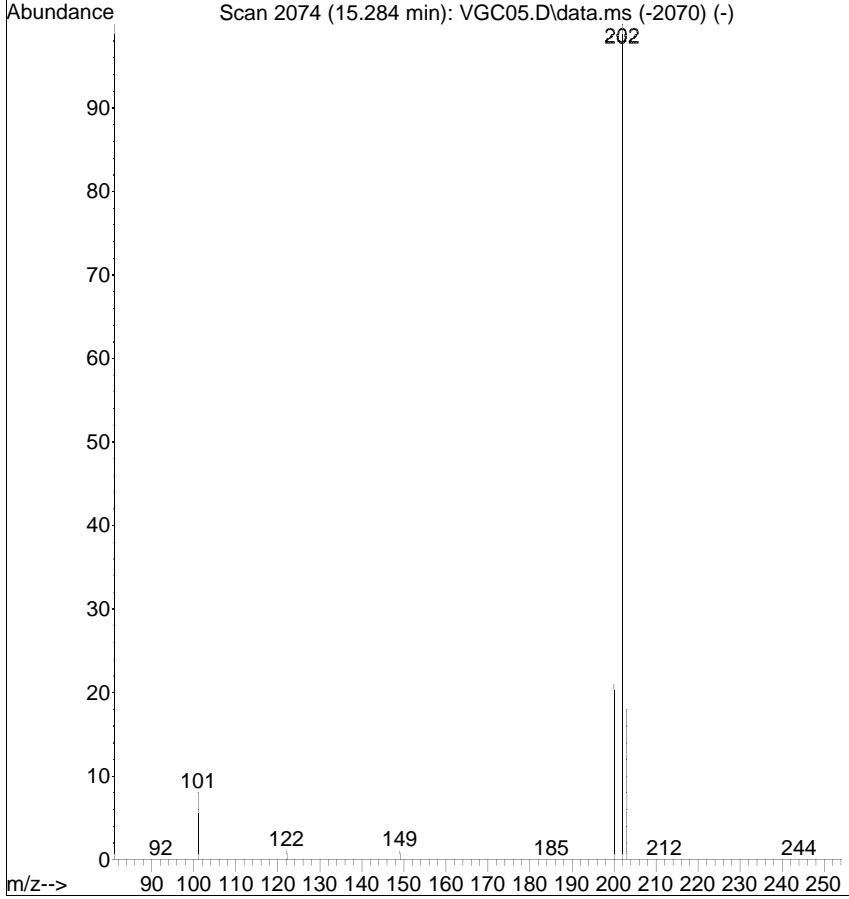


#19
 Pyrene
 Concen: 0.0104 ug/mL
 RT: 15.283 min Scan# 2074
 Delta R.T. -0.000 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

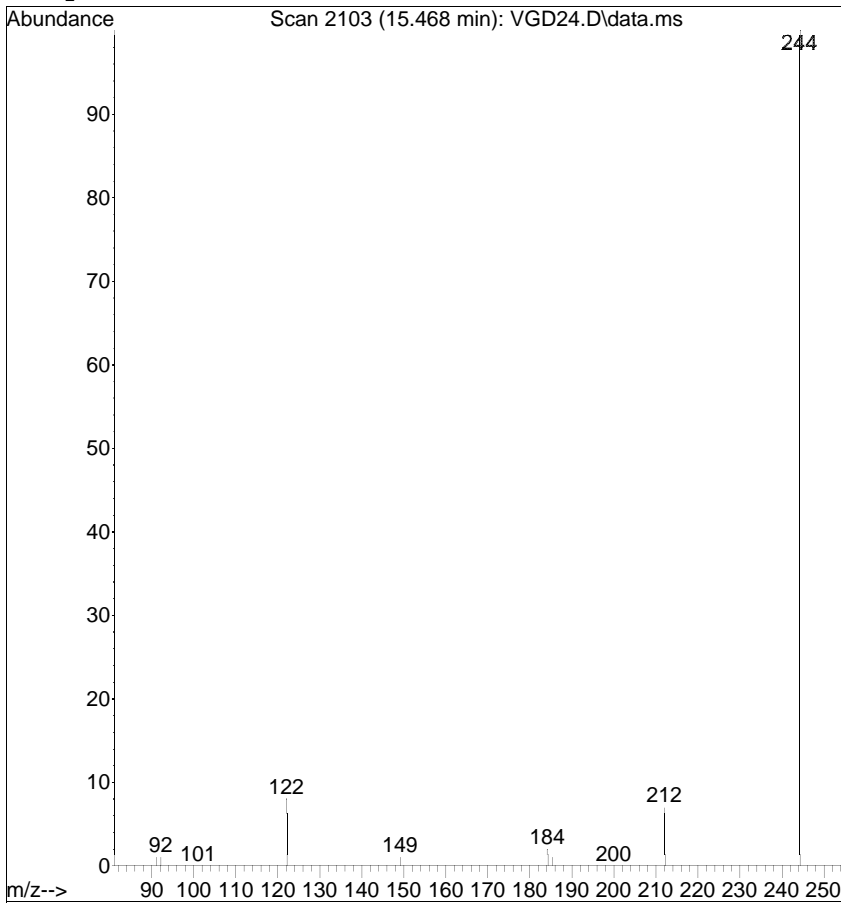
Tgt Ion	Ratio	Lower	Upper	Resp
202	100			840
200	27.8	1.1	41.1	
203	40.1	0.0	37.7	#



Ref

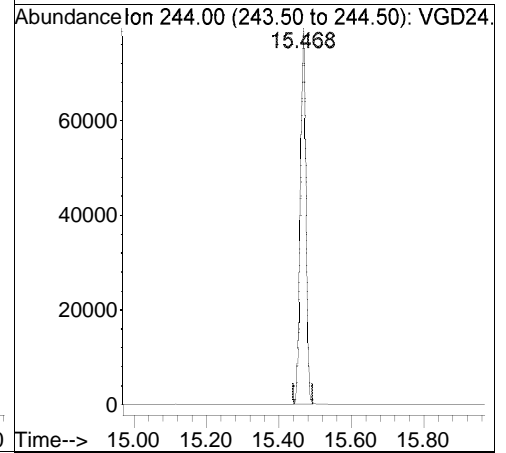


Raw

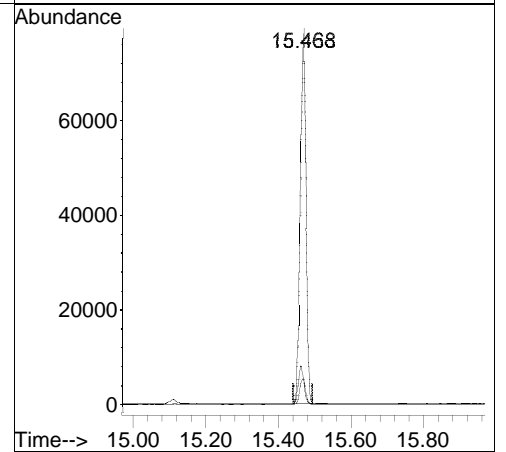
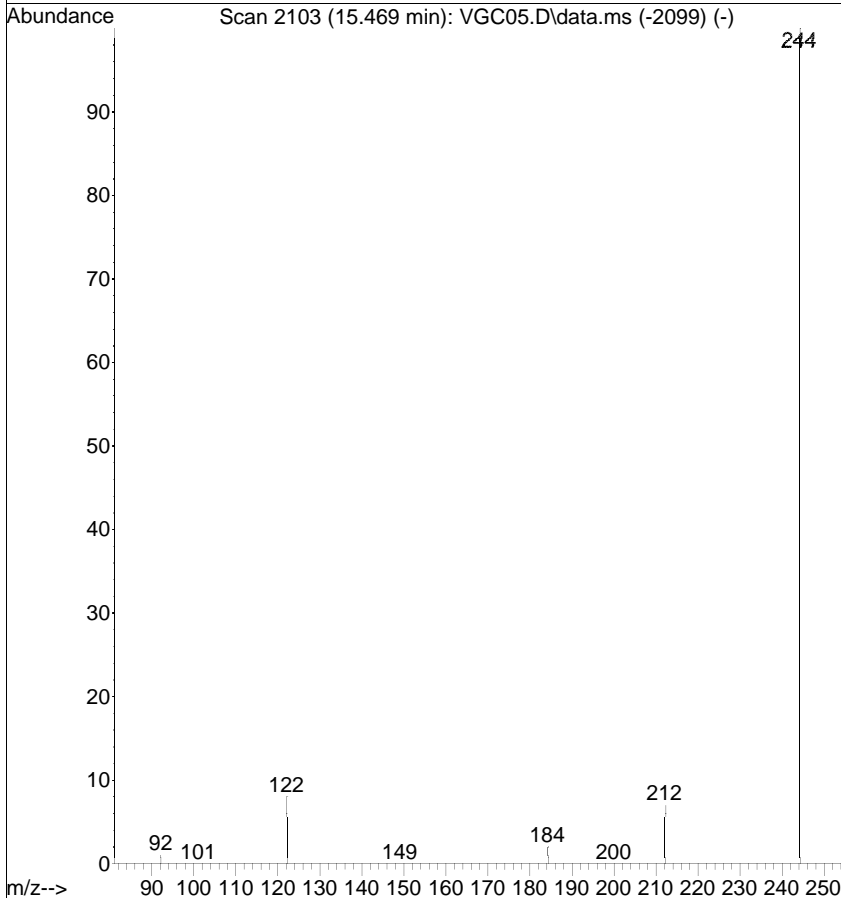


#20
 Terphenyl-d14
 Concen: 1.1621 ug/mL
 RT: 15.468 min Scan# 2103
 Delta R.T. -0.000 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

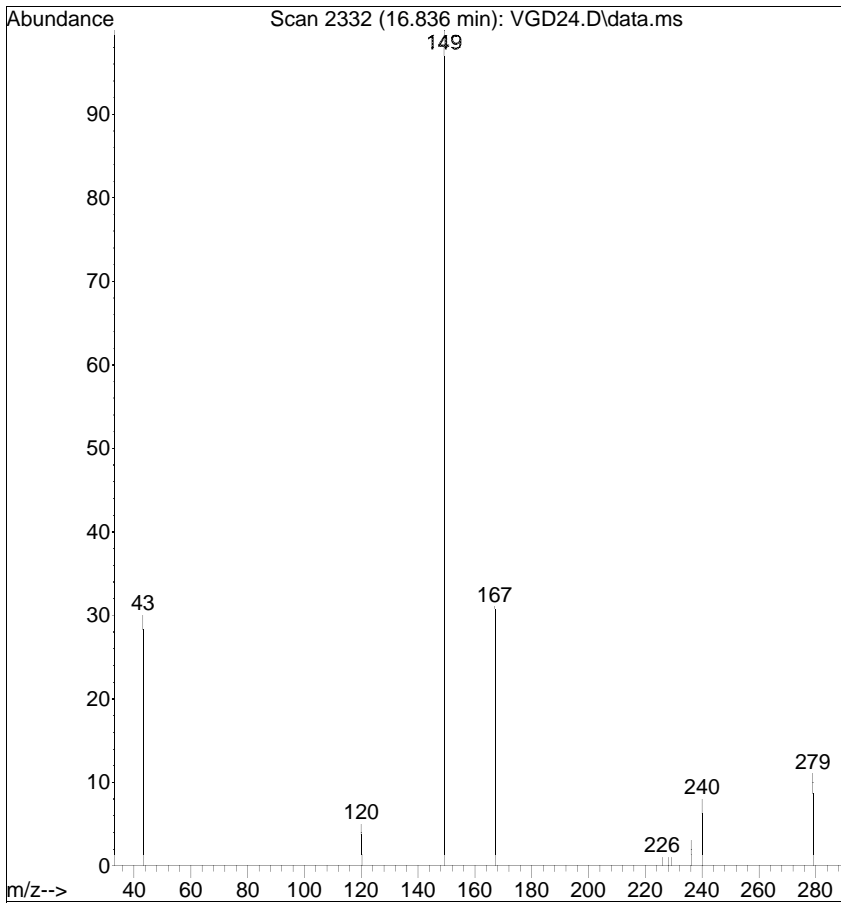
Tgt Ion	Ratio	Lower	Upper
244	100		
122	7.5	0.0	25.0
212	7.3	0.0	31.4



Ref

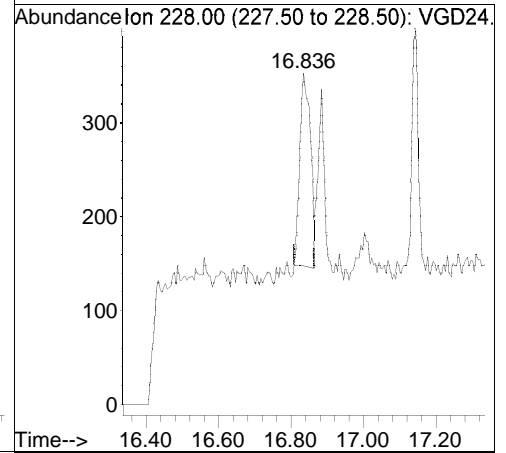


Raw

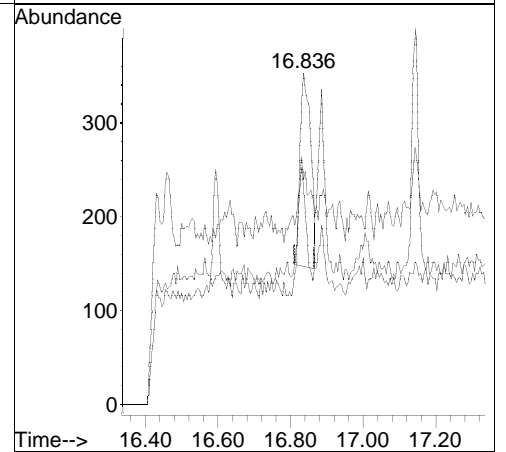
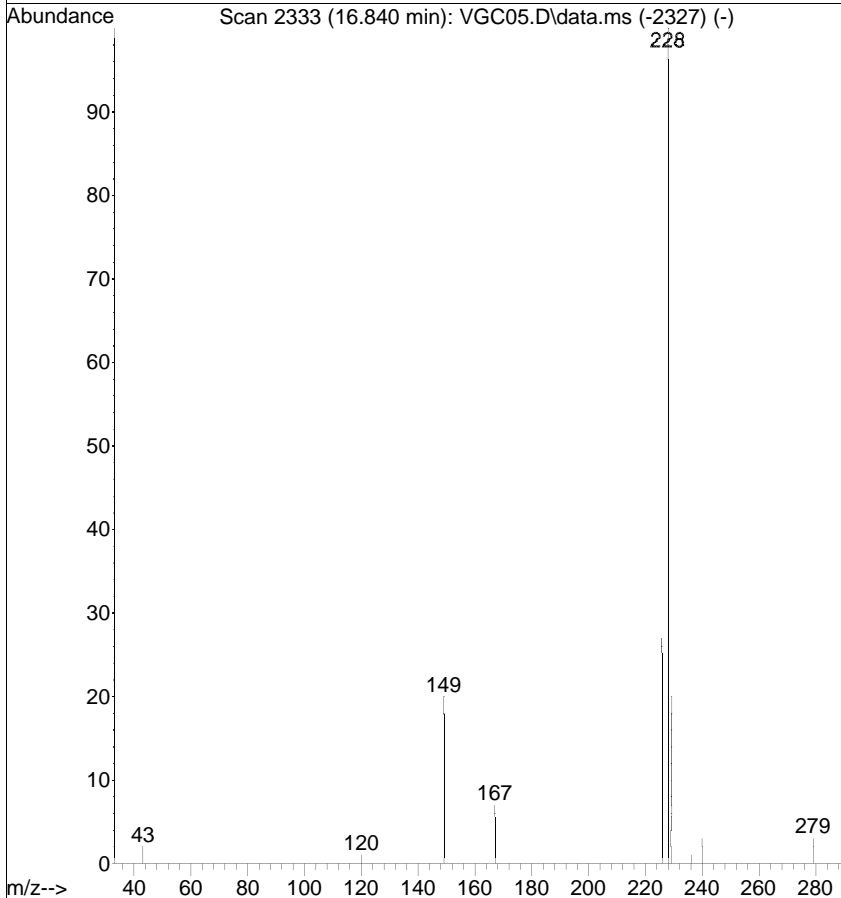


#21
 Benzo(a)anthracene
 Concen: 0.0058 ug/mL
 RT: 16.836 min Scan# 2332
 Delta R.T. 0.000 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

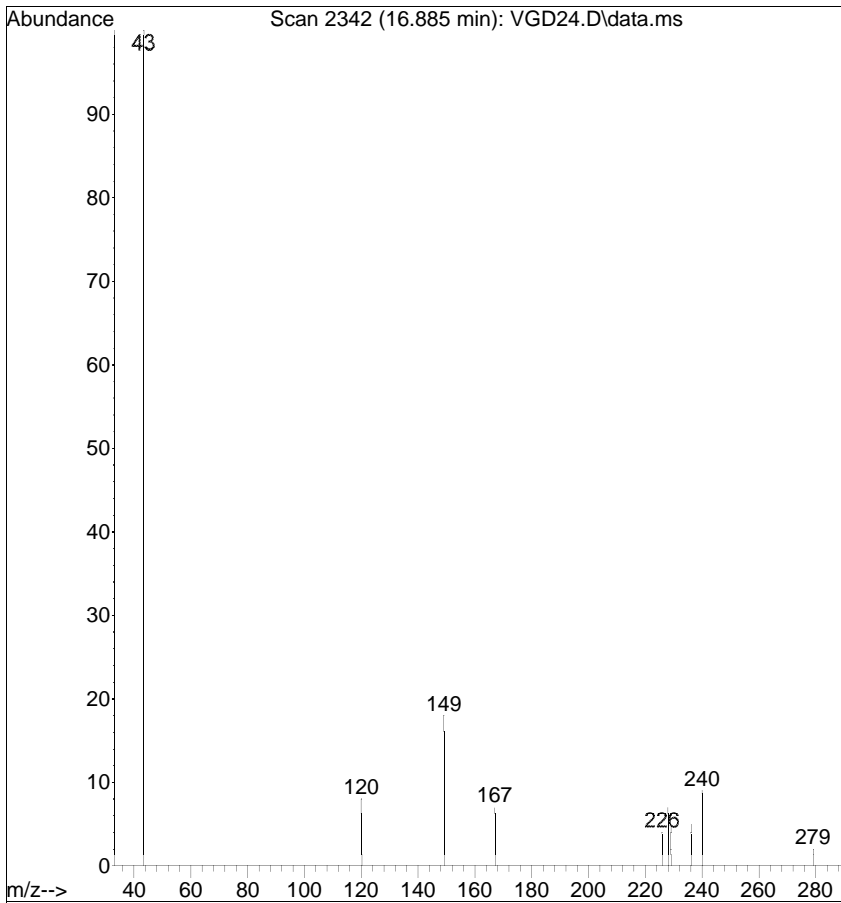
Tgt Ion	Ratio	Lower	Upper
228	100		
229	68.0	0.1	40.1#
226	64.9	9.3	49.3#



Ref

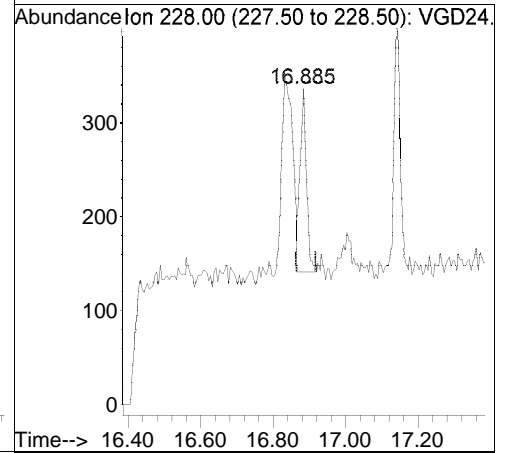


Raw

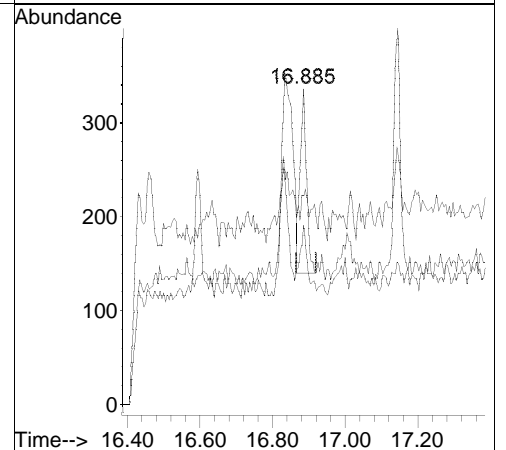
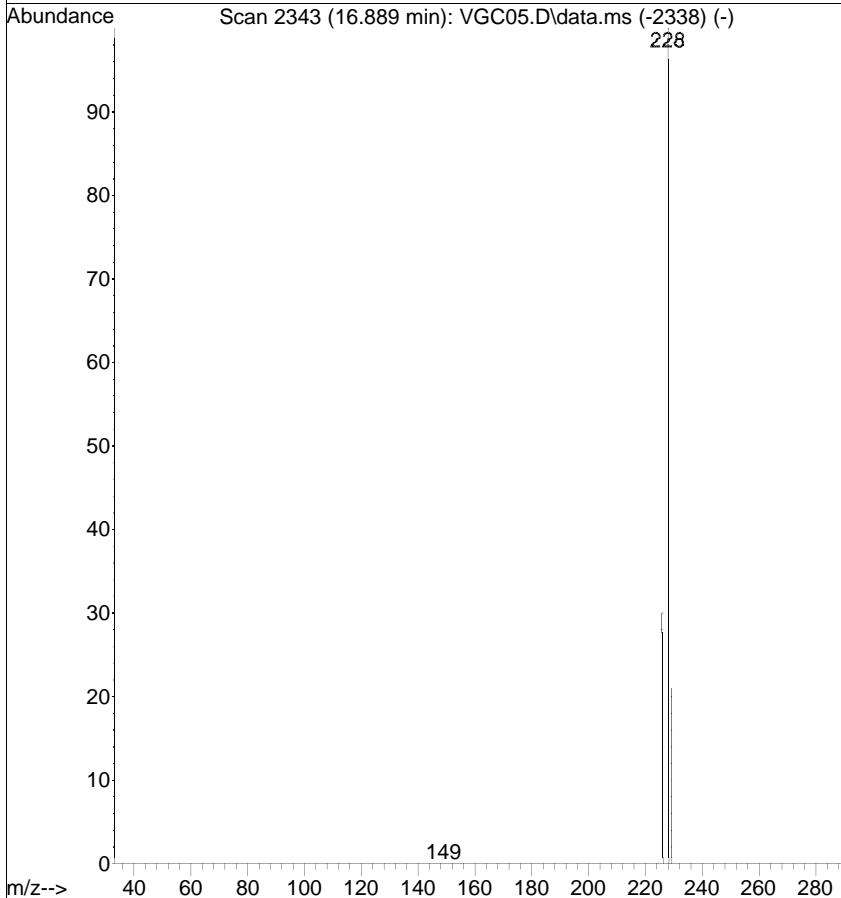


#22
 Chrysene
 Concen: 0.0035 ug/mL
 RT: 16.885 min Scan# 2342
 Delta R.T. 0.000 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

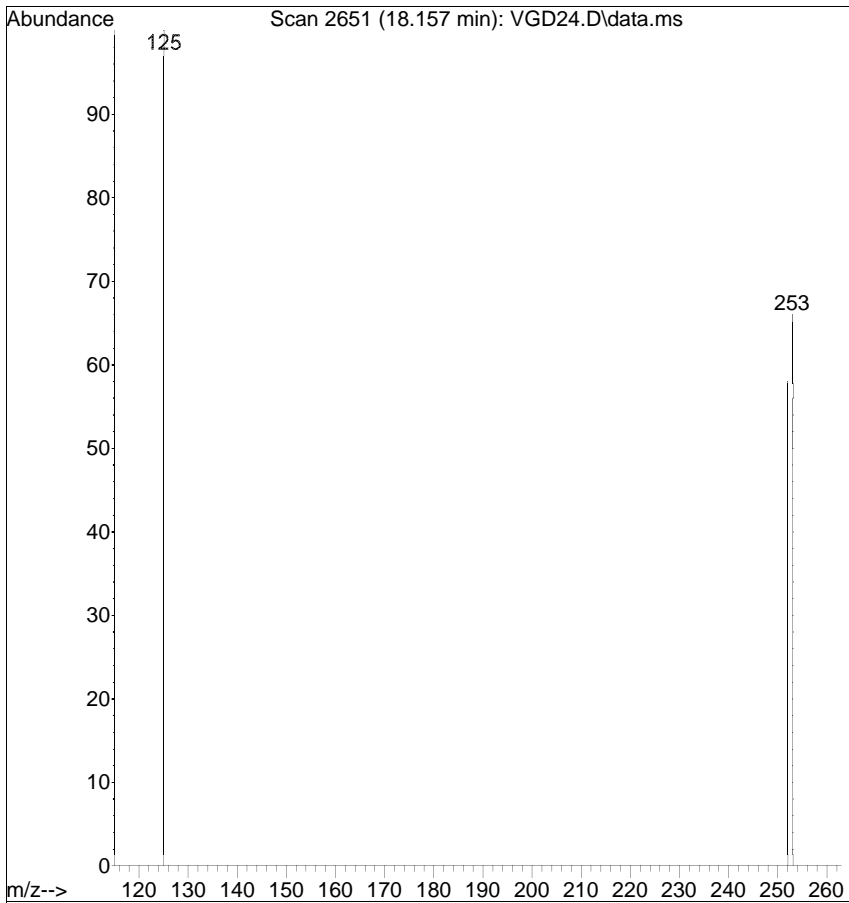
Tgt Ion	Ratio	Lower	Upper
228	100		
226	56.8	13.4	53.4#
229	66.1	0.8	40.8#



Ref



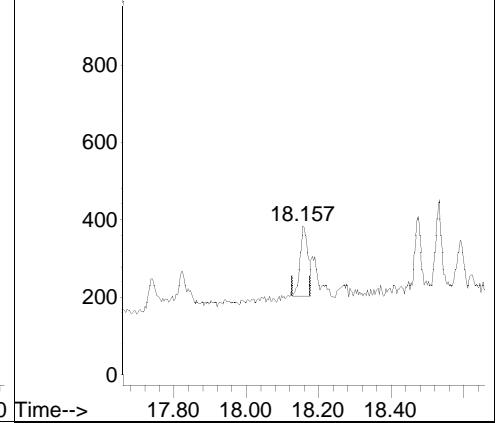
Raw



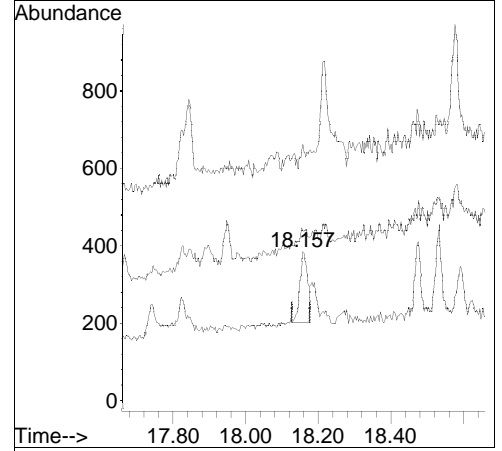
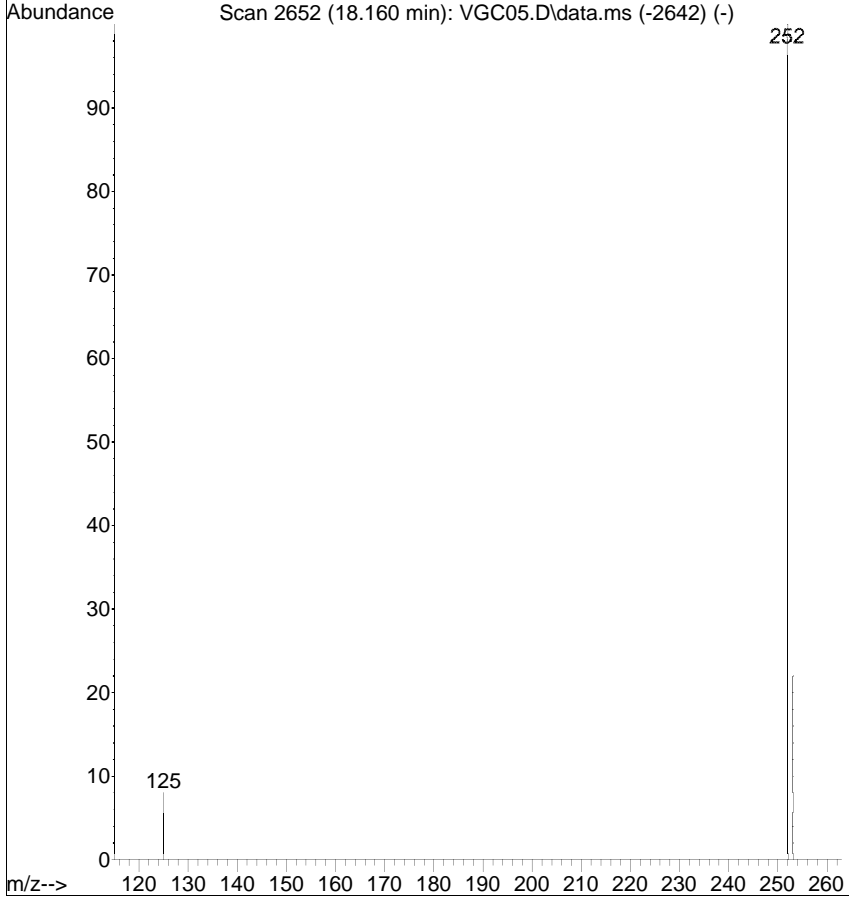
#24
 Benzo(b)fluoranthene
 Concen: 0.0060 ug/mL
 RT: 18.157 min Scan# 2651
 Delta R.T. 0.001 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

Tgt Ion	Ratio	Lower	Upper
252	100		
253	113.8	1.0	41.0#
125	171.9	0.0	20.9#

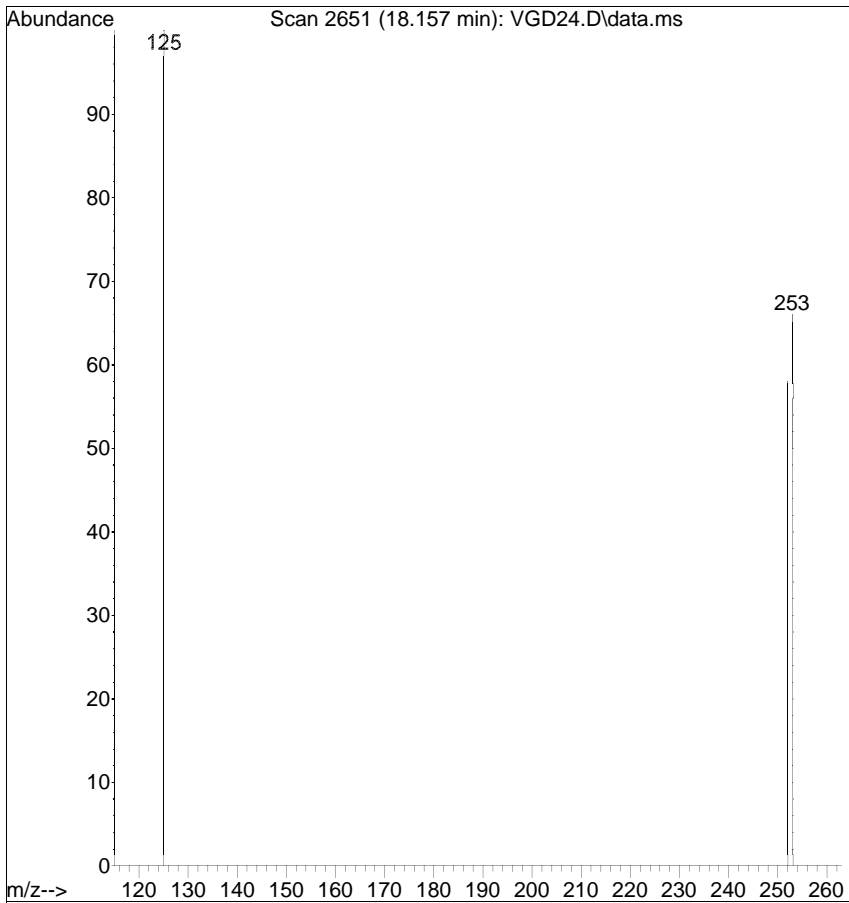
Abundance Ion 252.00 (251.50 to 252.50): VGD24.



Ref



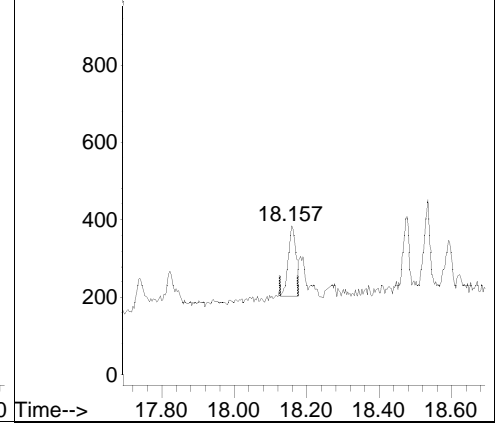
Raw



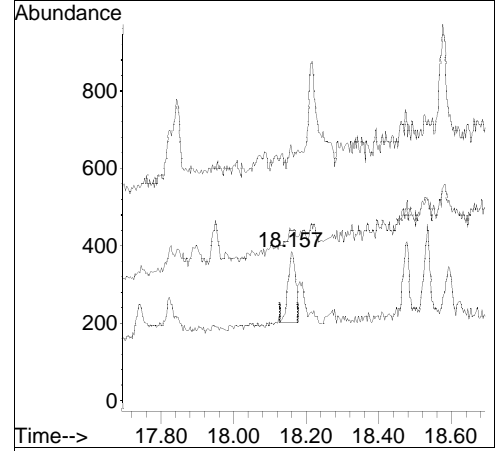
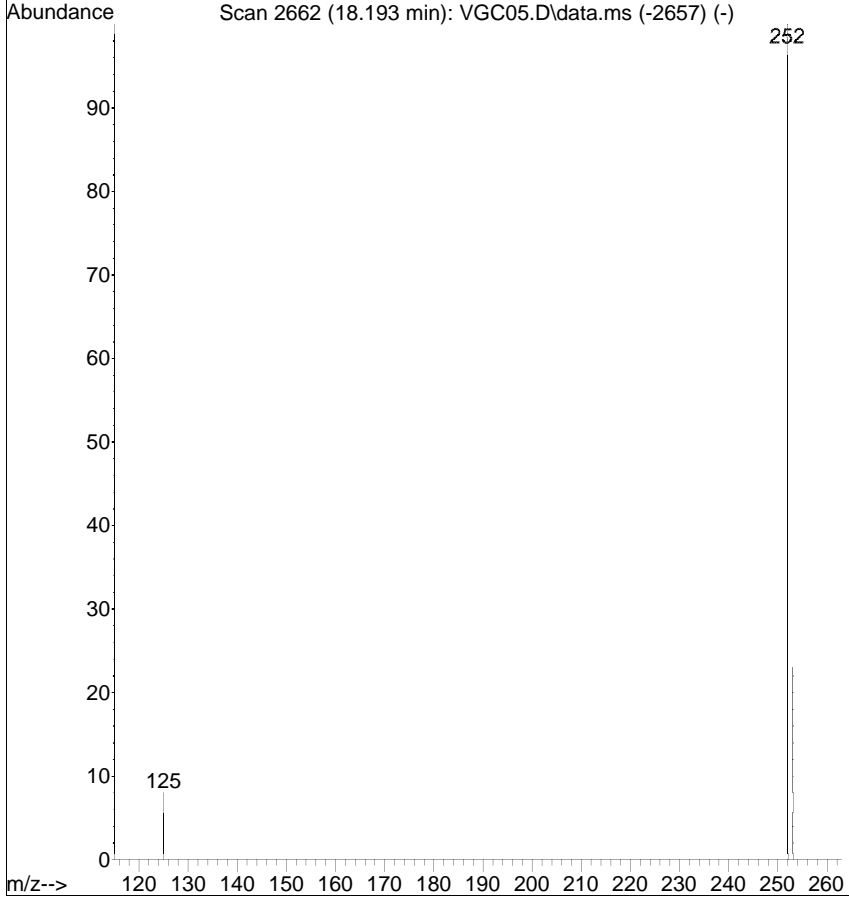
#25
 Benzo(k)fluoranthene
 Concen: 0.0055 ug/mL
 RT: 18.157 min Scan# 2651
 Delta R.T. -0.032 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

Tgt Ion	Ratio	Lower	Upper
252	100		
253	113.8	1.1	41.1#
125	171.9	0.0	21.1#

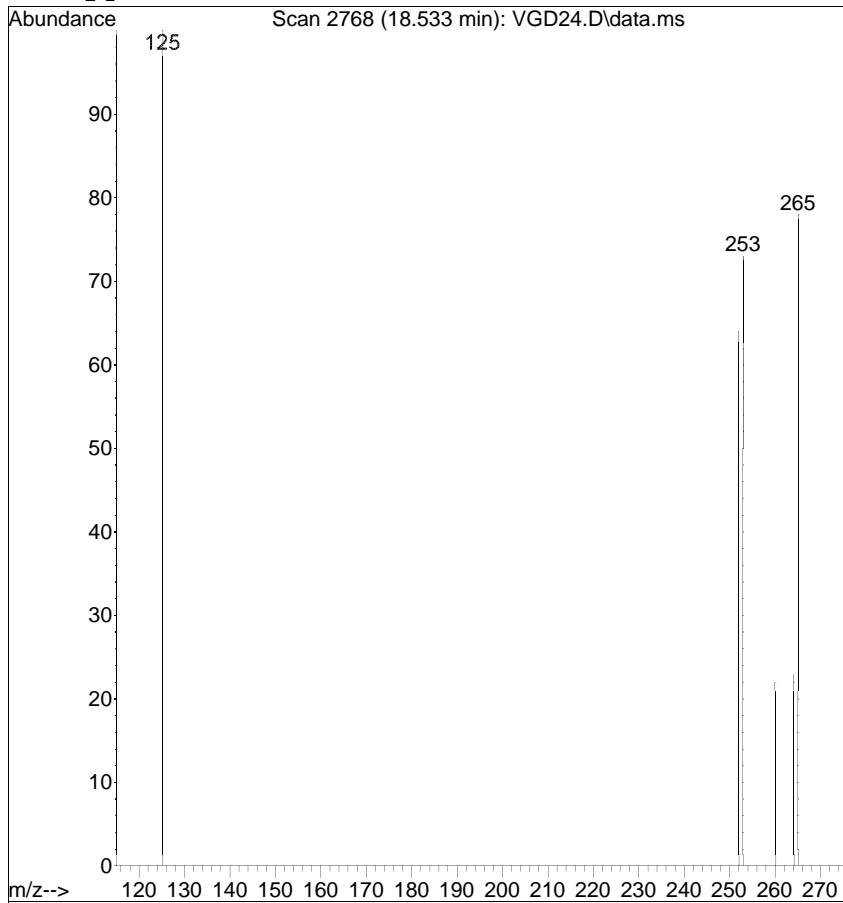
Abundance Ion 252.00 (251.50 to 252.50): VGD24.



Ref



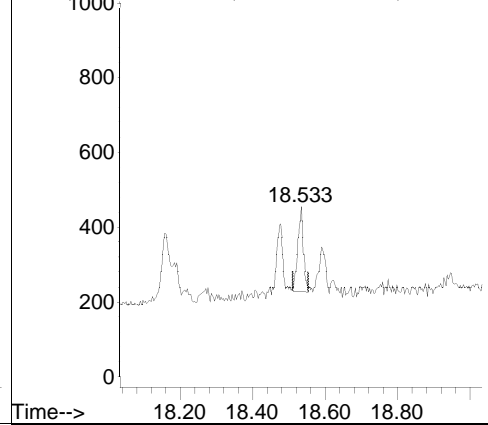
Raw



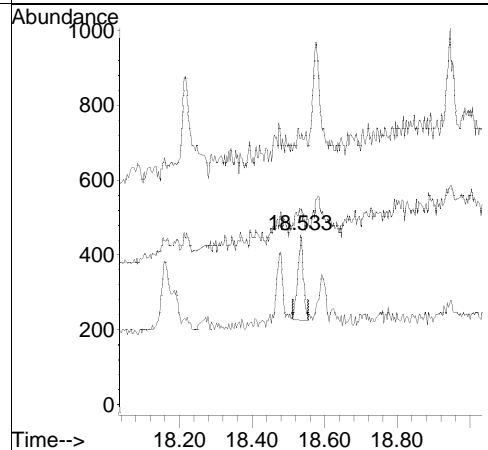
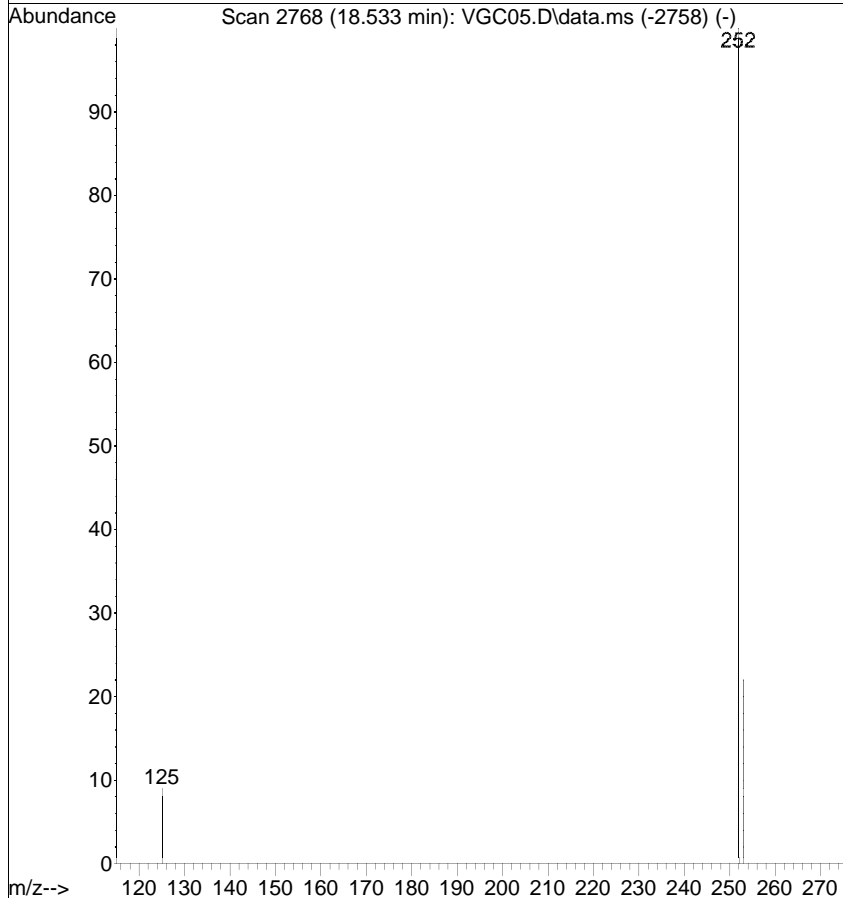
#26
 Benzo(a)pyrene
 Concen: 0.0058 ug/mL
 RT: 18.533 min Scan# 2768
 Delta R.T. 0.003 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

Tgt Ion	Resp	Lower	Upper
252	100		
253	115.2	3.4	43.4#
125	156.8	0.0	20.9#

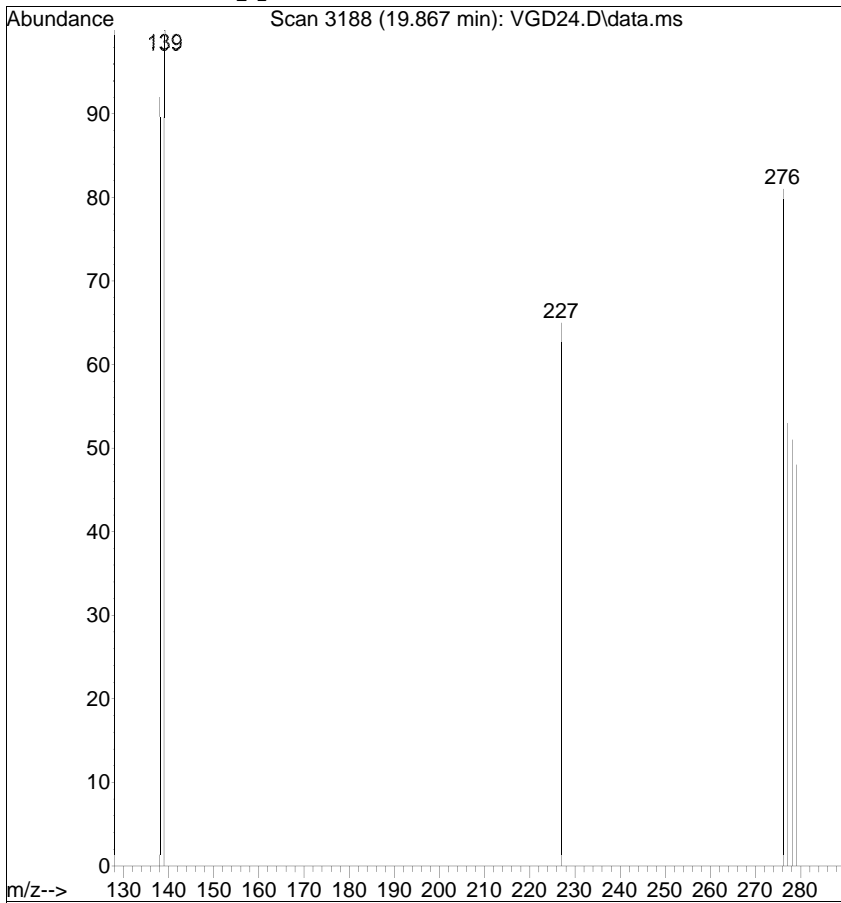
Abundance Ion 252.00 (251.50 to 252.50): VGD24.



Ref

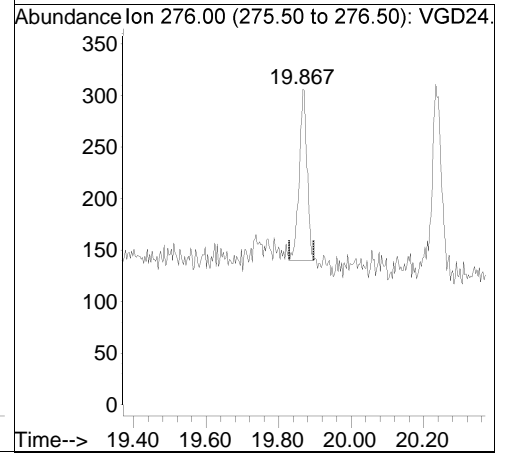


Raw

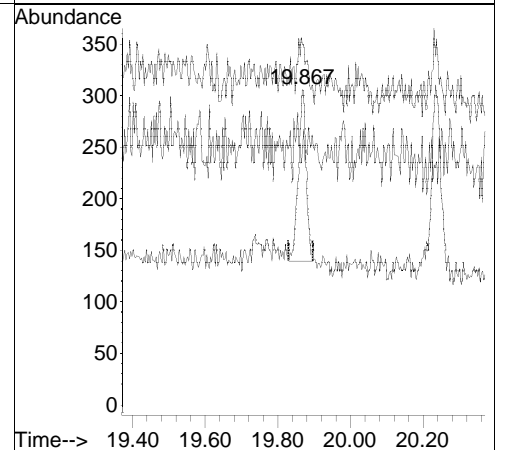
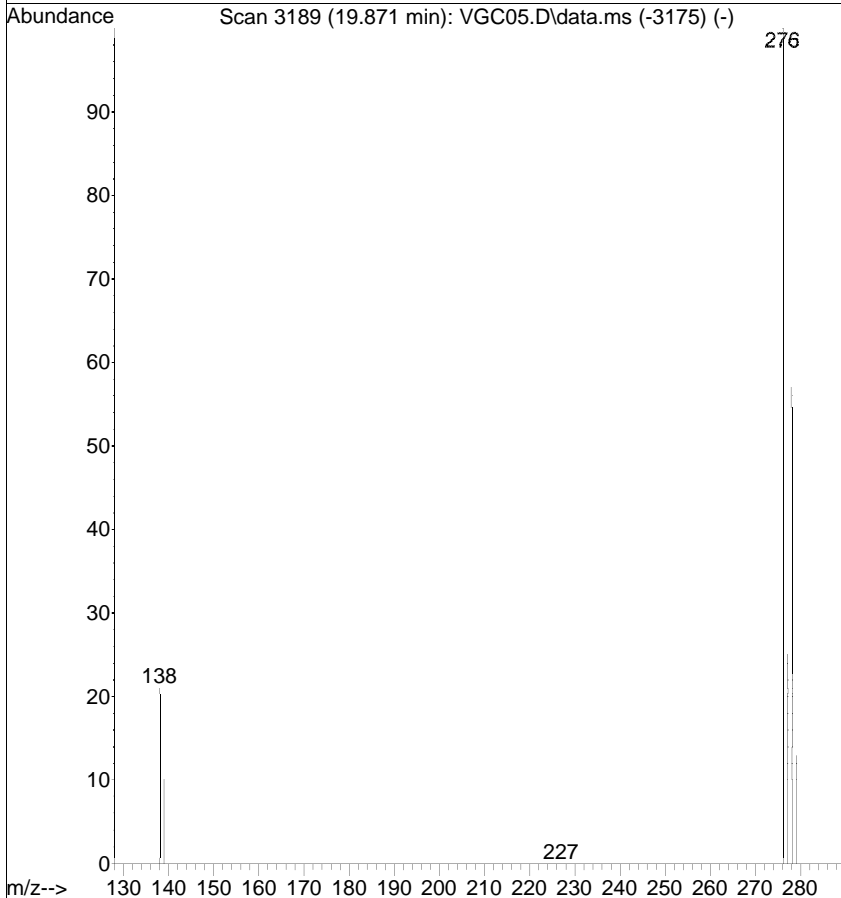


#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.0054 ug/mL
 RT: 19.867 min Scan# 3188
 Delta R.T. -0.000 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

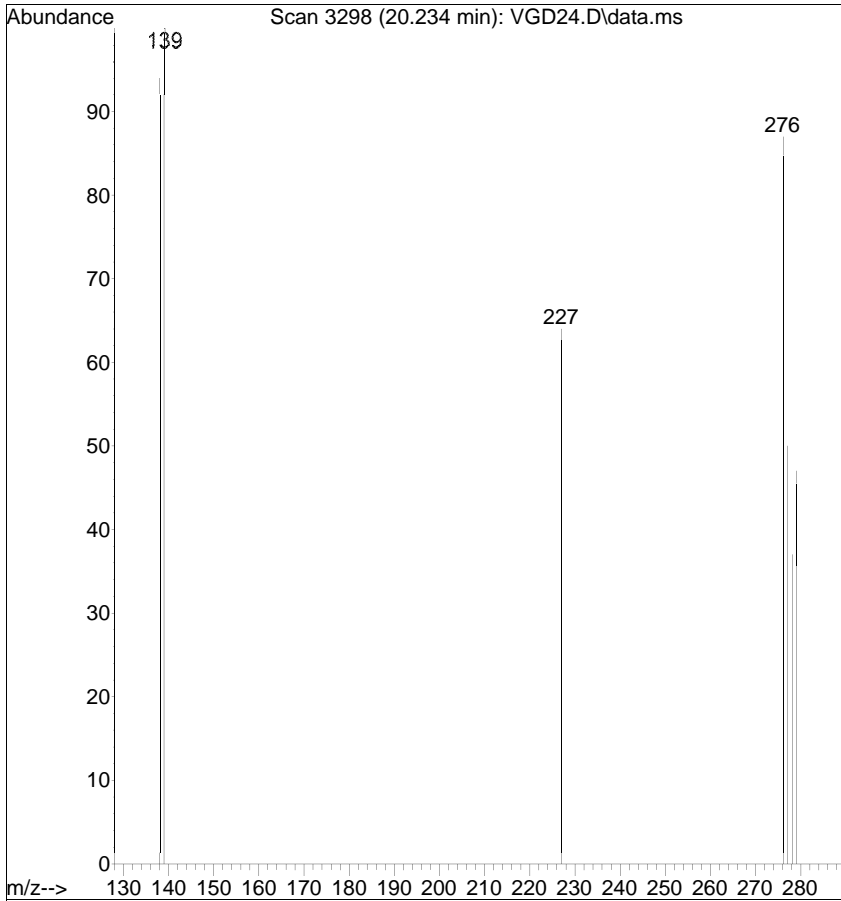
Tgt Ion	Ratio	Lower	Upper
276	100		
138	114.4	0.0	23.1#
227	80.7	0.0	21.0#



Ref

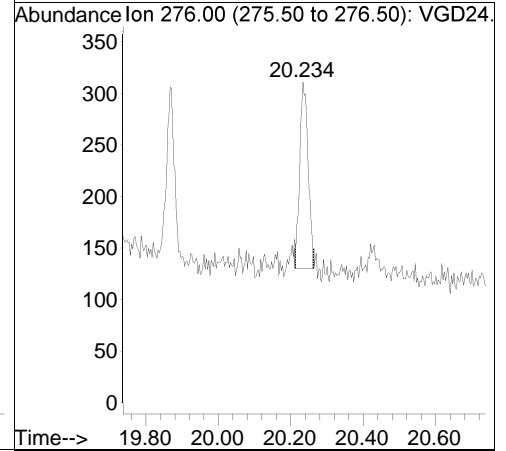


Raw

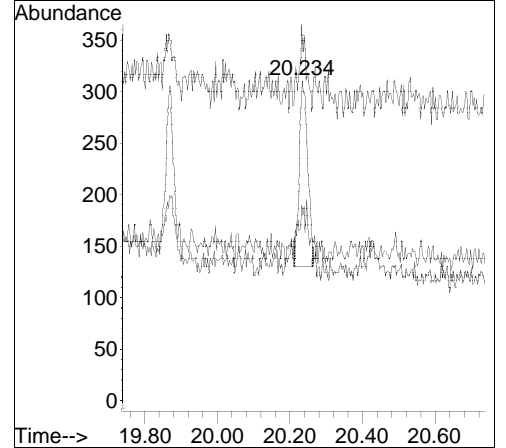
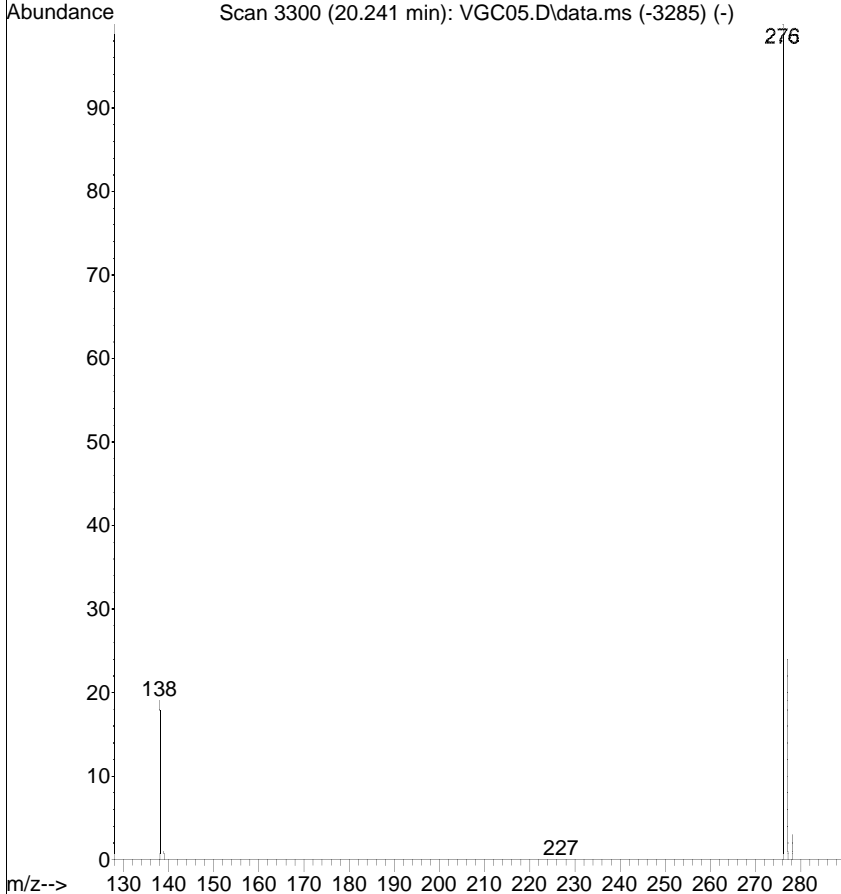


#29
 Benzo(g,h,i)perylene
 Concen: 0.0079 ug/mL
 RT: 20.234 min Scan# 3298
 Delta R.T. -0.000 min
 Lab File: VGD24.D
 Acq: 13 Jul 2018 11:20 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	108.7	0.0	22.1#
277	58.2	2.5	42.5#



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 301314-002 Client ID : BR11-1GW03
 Seqnum : 528280080025 Matrix : Water Acct : TRC-SF (MJD)
 File : vgd25 Batch : 261249 Time : 13-JUL-2018 23:52
 Cal : 528278537001 Caldate : 12-JUL-2018
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.04130	0.04 J	0.1		u
Acenaphthylene	0.001300	ND	0.1		u
Acenaphthene	0.004300	ND	0.1		u
Fluorene	0.003100	ND	0.1		u
Phenanthrene	0.006000	ND	0.1		u
Anthracene	0.001200	ND	0.1		u
Fluoranthene	0.004000	ND	0.1		u
Pyrene	0.006400	ND	0.1		u
Benzo(a)anthracene	0.003500	ND	0.1		u
Chrysene	0.003700	ND	0.1		u
Benzo(b)fluoranthene	0.002300	ND	0.1		u
Benzo(k)fluoranthene	0.002100	ND	0.1		u
Benzo(a)pyrene	0.003300	ND	0.1		u
Indeno(1,2,3-cd)pyrene	0.002400	ND	0.1		u
Dibenz(a,h)anthracene	0	ND	0.1		u
Benzo(g,h,i)perylene	0.005400	ND	0.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.7582	1.000	0.7582	76	48-124	u
2-Fluorobiphenyl	0.7815	1.000	0.7815	78	51-120	u
Terphenyl-d14	0.9340	1.000	0.9340	93	25-120	u

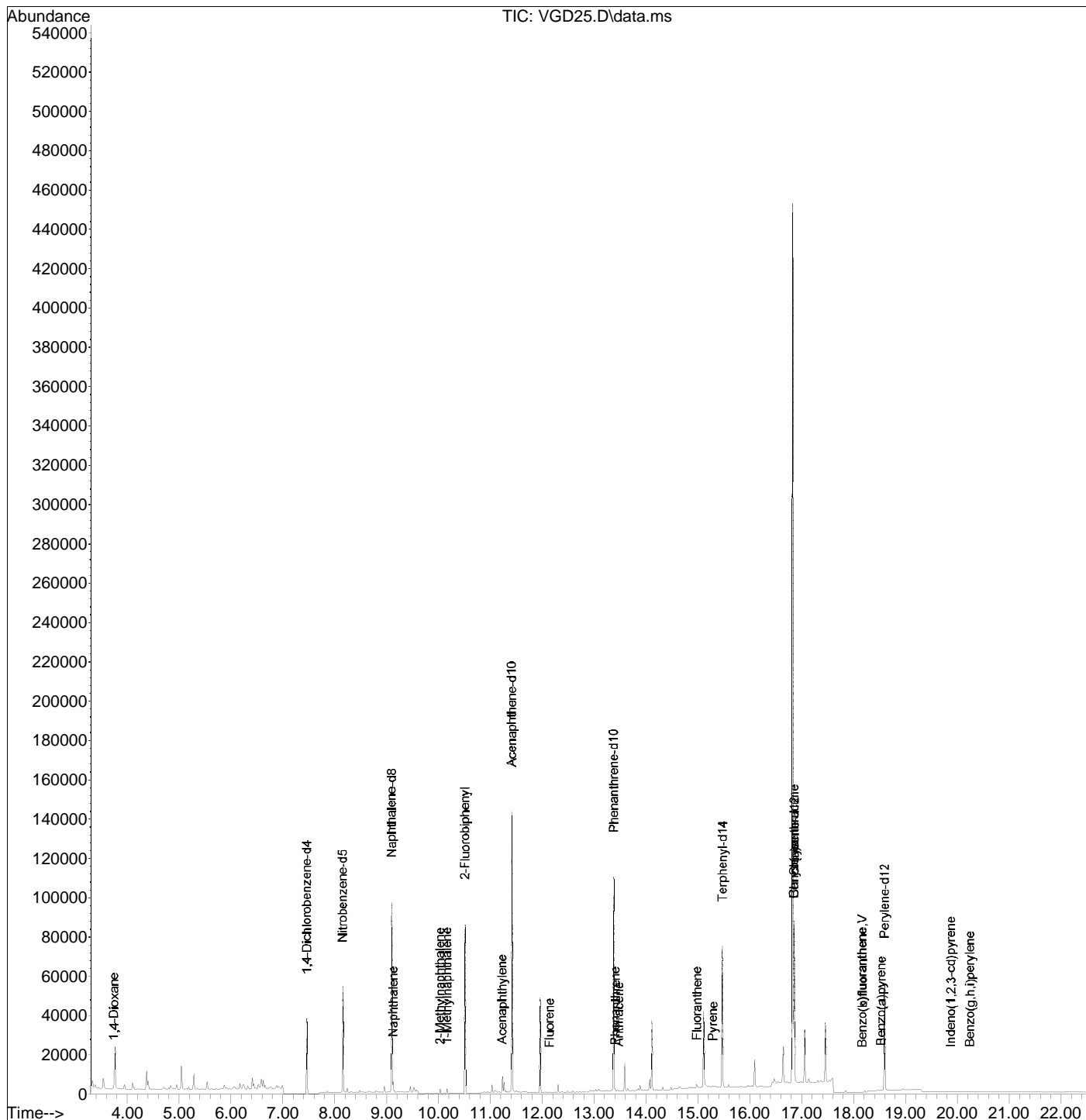
ISTD (CCV vgd06)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	84858	81727	-3.69	9.10	9.10	0.00
Acenaphthene-d10	52953	53155	0.38	11.41	11.41	0.00
Phenanthrene-d10	98761	97749	-1.02	13.38	13.38	0.00
Chrysene-d12	80453	62686	-22.08	16.85	16.86	0.01
Perylene-d12	74224	41982	-43.44	18.59	18.60	0.01

Analyst: JW1 Date: 07/17/18 Reviewer: LW Date: 07/17/18

u=use

Data Path : G:\msbna03\071318\
 Data File : VGD25.D
 Acq On : 13 Jul 2018 11:52 pm
 Operator :
 Sample : S,301314-002
 Misc : 261249,1,
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 16 09:11:29 2018
 Quant Method : G:\msbna03\071318\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\msbna03\071318\
 Data File : VGD25.D
 Acq On : 13 Jul 2018 11:52 pm
 Operator :
 Sample : S,301314-002
 Misc : 261249,1,
 ALS Vial : 25 Sample Multiplier: 1

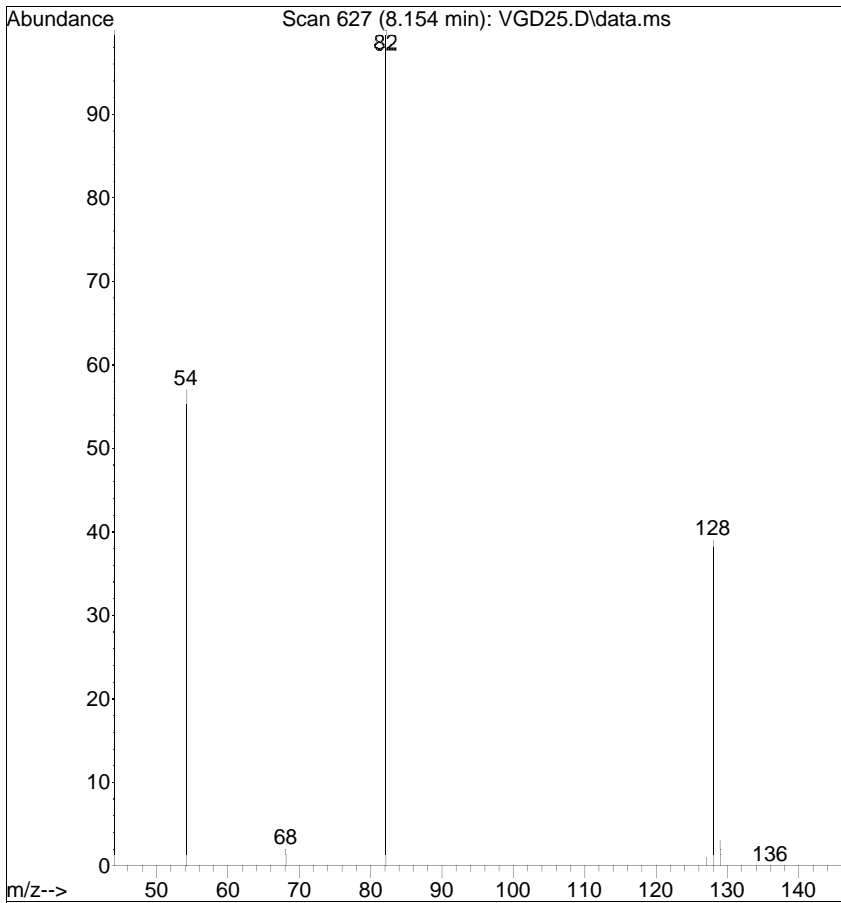
Quant Time: Jul 16 09:11:29 2018
 Quant Method : G:\msbna03\071318\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.460	152	24061	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.097	136	81727	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.414	164	53155	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.376	188	97749	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	62686	1.0000	ug/mL	0.00
23) Perylene-d12	18.597	264	41982	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.743	88	347	0.3851	ug/mL	# 1
4) Nitrobenzene-d5	8.154	82	25607	0.7582	ug/mL	80
5) Naphthalene	9.125	128	3365	0.0413	ug/mL	95
6) 2-Methylnaphthalene	10.031	142	1212	0.0193	ug/mL	97
7) 1-Methylnaphthalene	10.162	142	1219	0.0212	ug/mL	91
9) 2-Fluorobiphenyl	10.512	172	62036	0.7815	ug/mL	98
10) Acenaphthylene	11.222	152	110	0.0013	ug/mL	# 1
11) Acenaphthene	11.414	154	228	0.0043	ug/mL	# 52
12) Fluorene	12.137	166	191	0.0031	ug/mL	# 84
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.406	178	557	0.0060	ug/mL	# 59
16) Anthracene	13.471	178	112	0.0012	ug/mL	# 1
17) Fluoranthene	14.977	202	438	0.0040	ug/mL	# 23
19) Pyrene	15.284	202	539	0.0064	ug/mL	# 51
20) Terphenyl-d14	15.470	244	66030	0.9340	ug/mL	91
21) Benzo(a)anthracene	16.850	228	266	0.0035	ug/mL	# 35
22) Chrysene	16.850	228	266	0.0037	ug/mL	# 44
24) Benzo(b)fluoranthene	18.163	252	115	0.0023	ug/mL	# 1
25) Benzo(k)fluoranthene	18.163	252	115	0.0021	ug/mL	# 1
26) Benzo(a)pyrene	18.528	252	150	0.0033	ug/mL	# 1
27) Indeno(1,2,3-cd)pyrene	19.871	276	121	0.0024	ug/mL	# 1
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
29) Benzo(g,h,i)perylene	20.241	276	217	0.0054	ug/mL	# 1

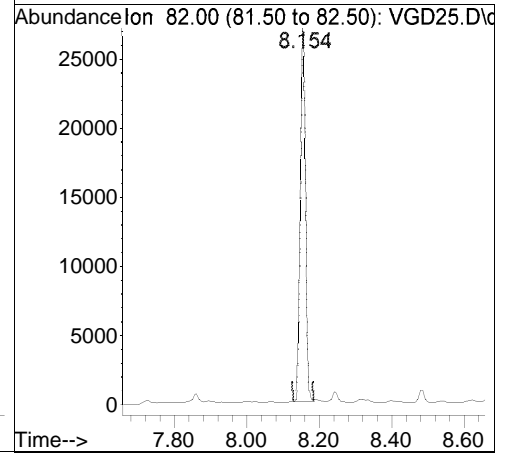
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

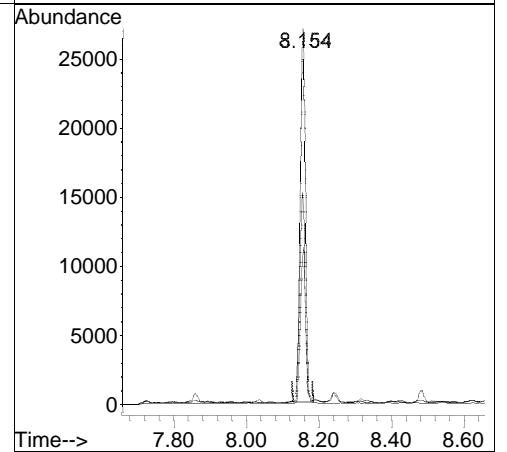
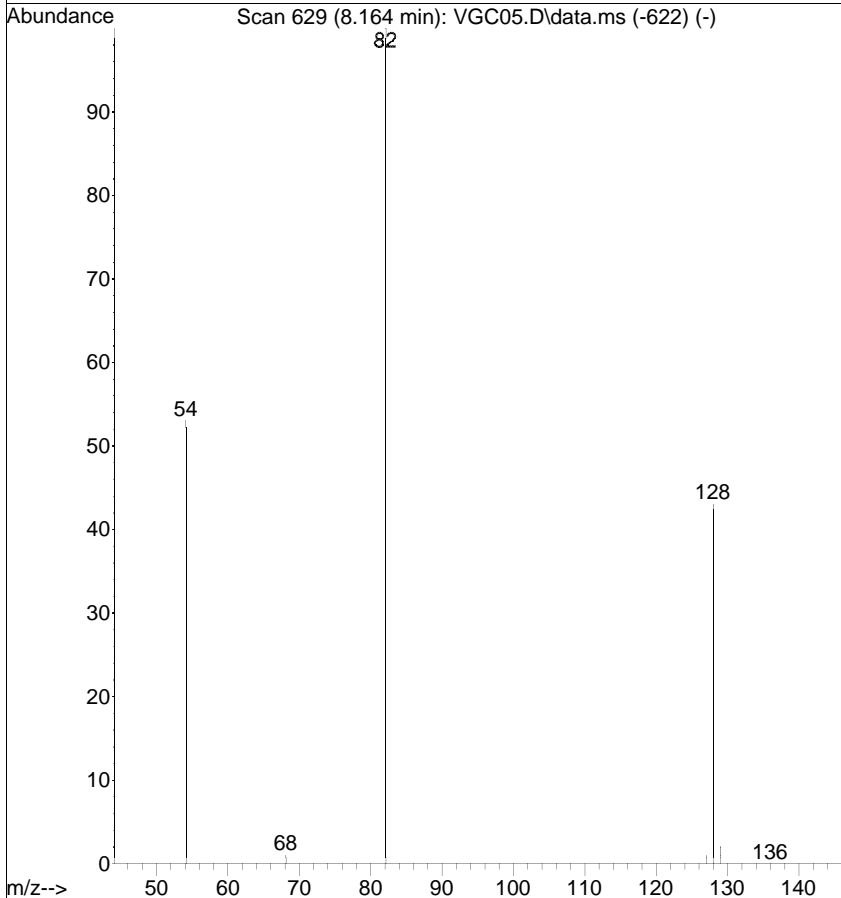


#4
 Nitrobenzene-d5
 Concen: 0.7582 ug/mL
 RT: 8.154 min Scan# 627
 Delta R.T. -0.007 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

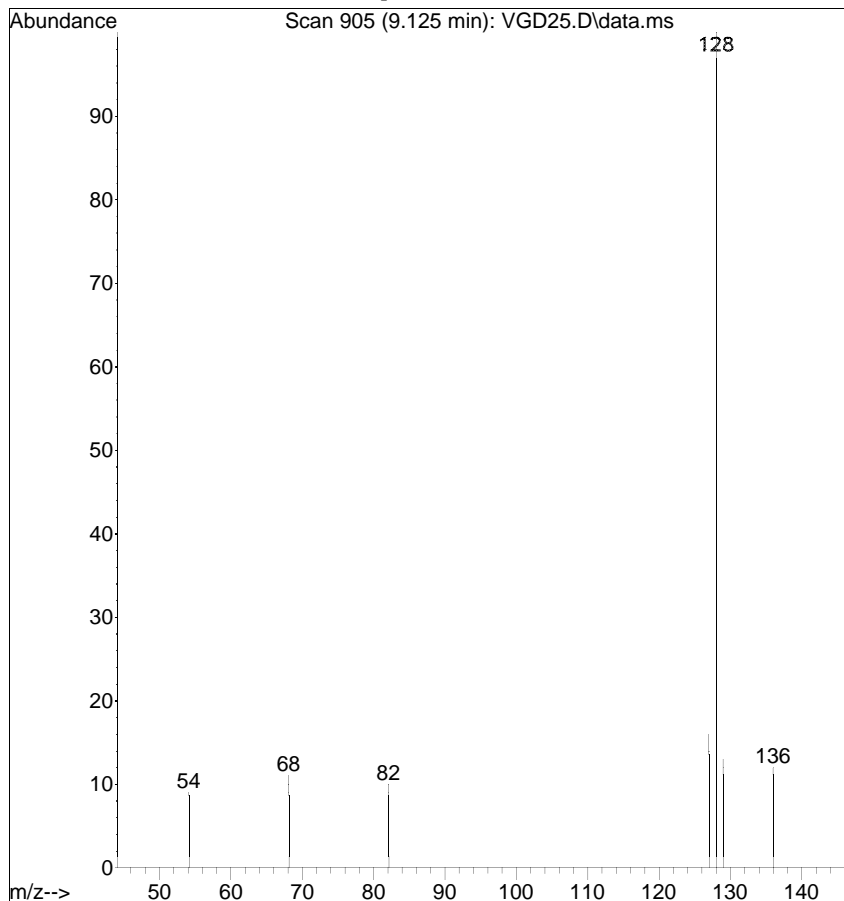
Tgt Ion	Resp	Lower	Upper
82	25607		
128	38.6	10.5	50.5
54	56.7	56.2	96.2



Ref

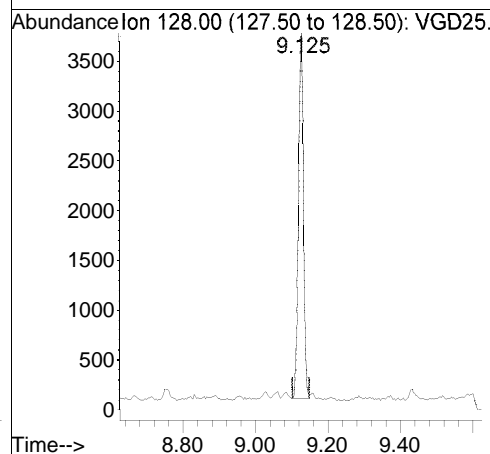


Raw

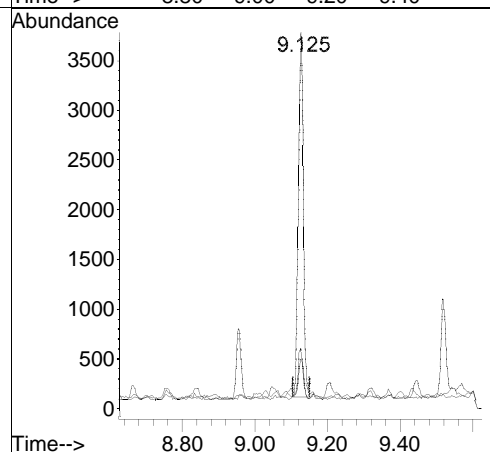
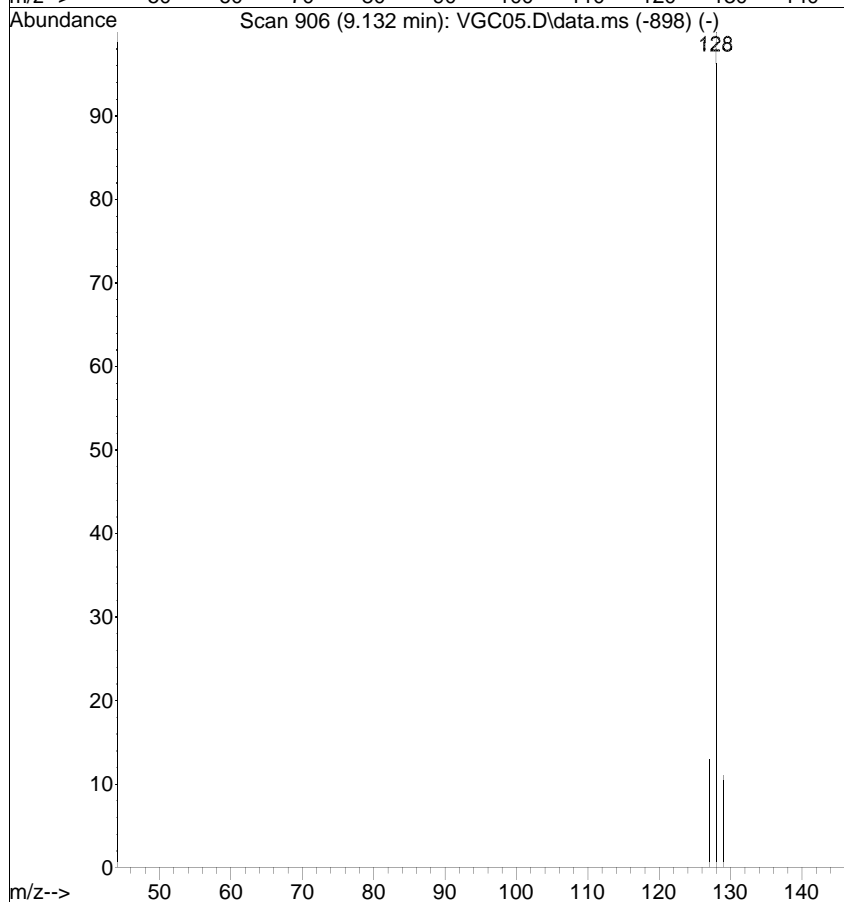


#5
 Naphthalene
 Concen: 0.0413 ug/mL
 RT: 9.125 min Scan# 905
 Delta R.T. -0.003 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

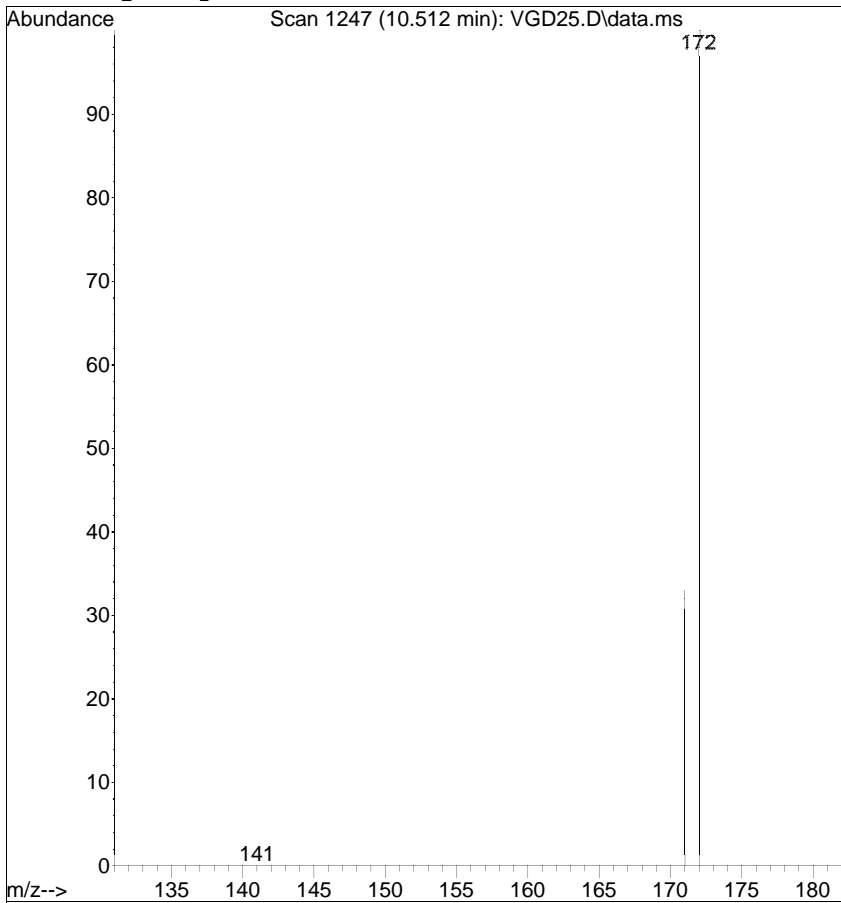
Tgt Ion	Resp	Lower	Upper
128	3365		
129	13.2	0.0	31.1
127	16.0	0.0	34.0



Ref

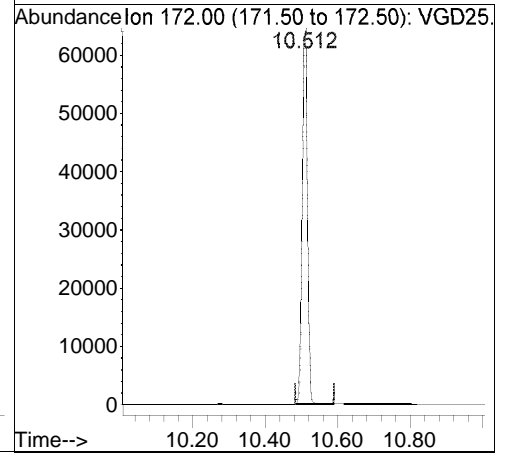


Raw

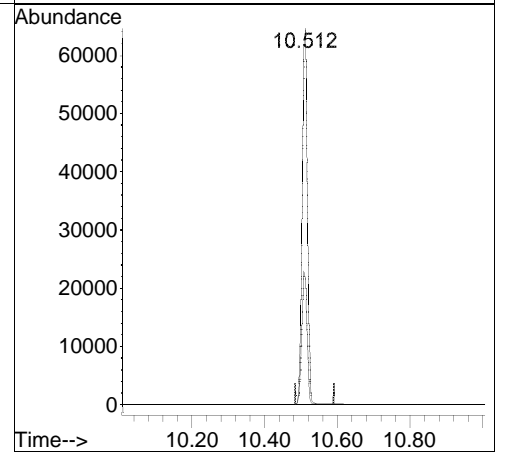
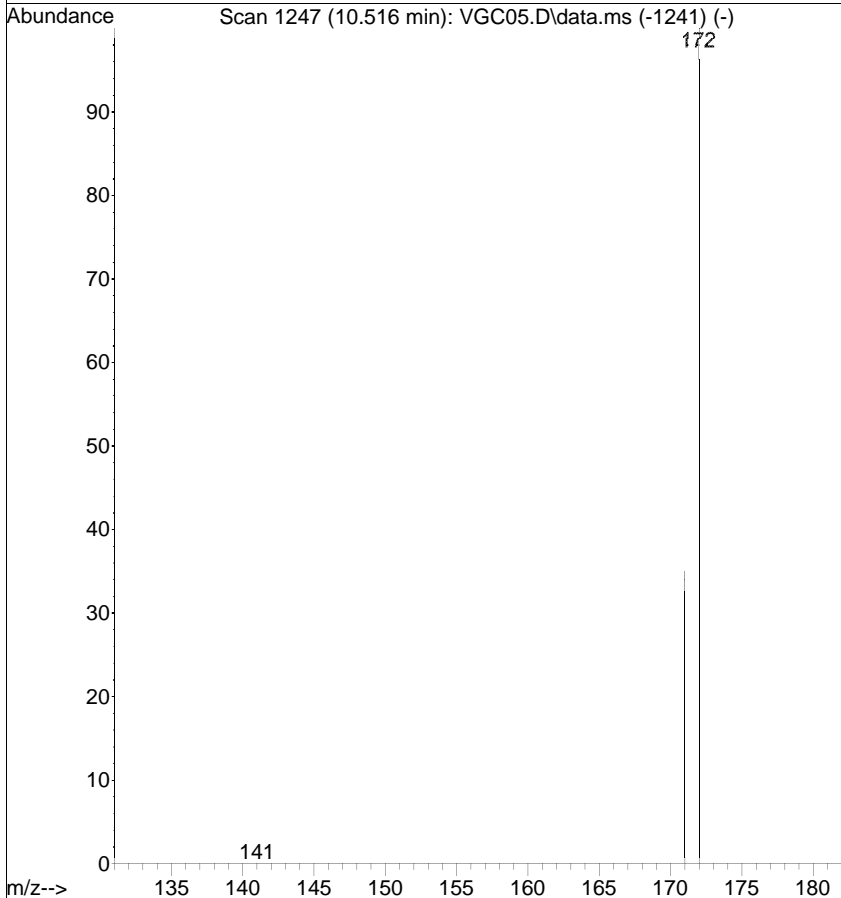


#9
 2-Fluorobiphenyl
 Concen: 0.7815 ug/mL
 RT: 10.512 min Scan# 1247
 Delta R.T. 0.000 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

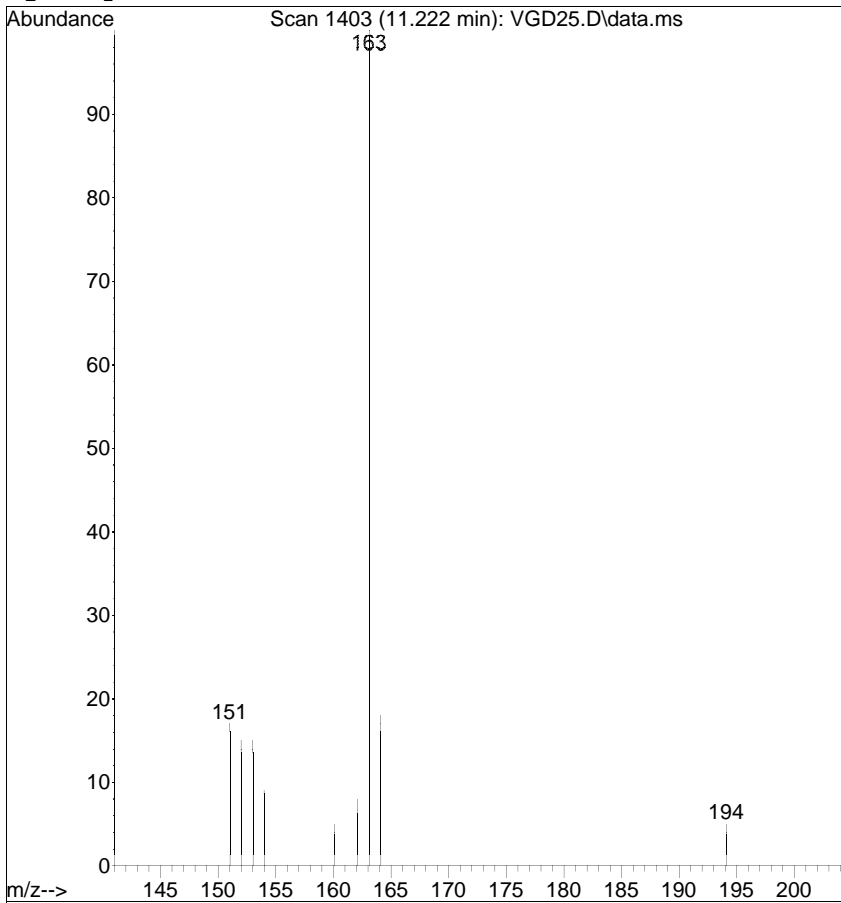
Tgt Ion	Resp	Lower	Upper
172	62036		
171	33.2	14.4	54.4



Ref

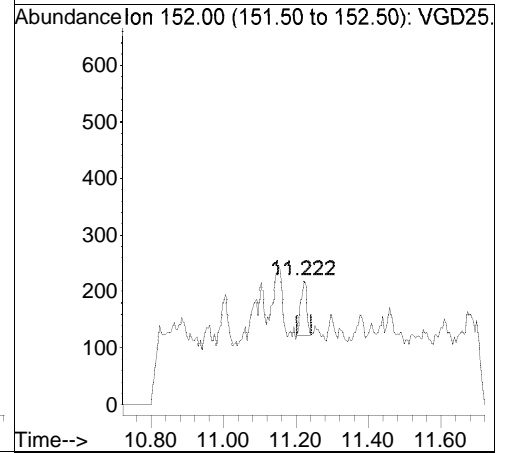


Raw

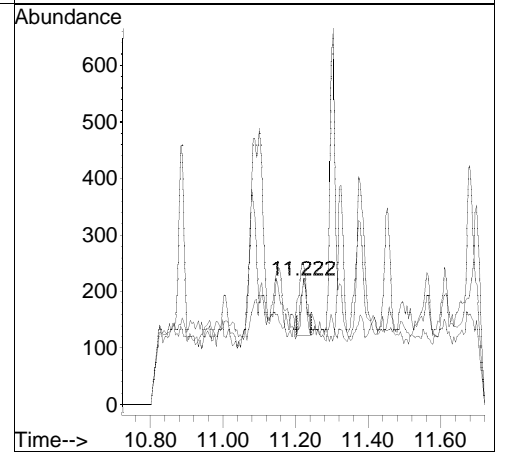
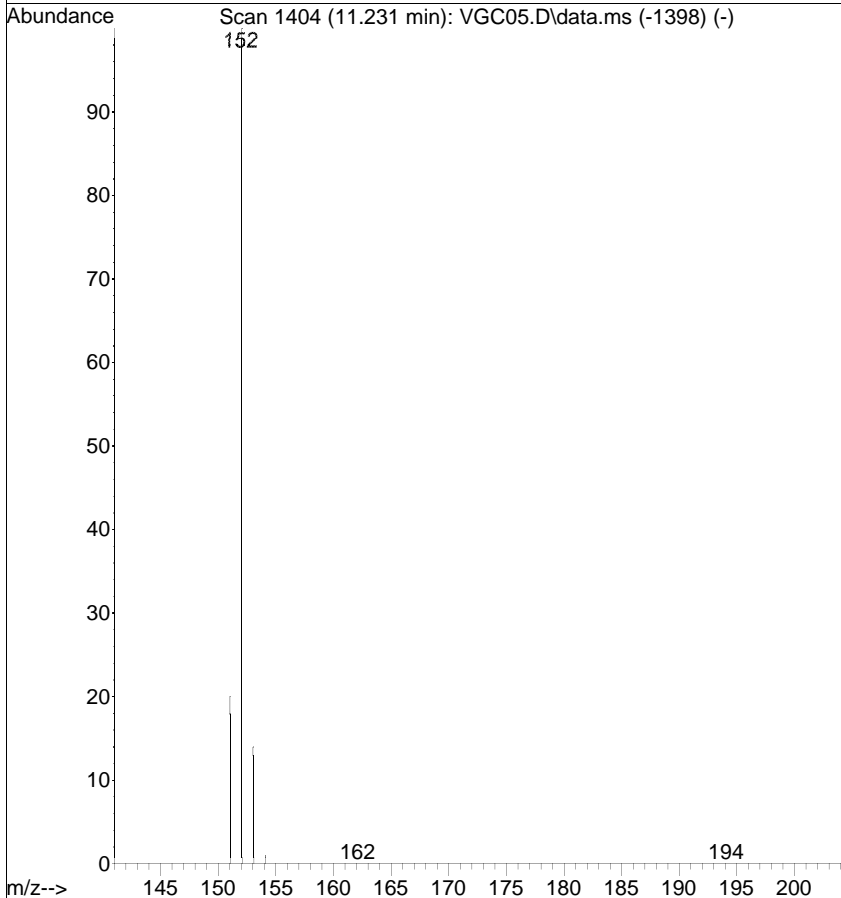


#10
 Acenaphthylene
 Concen: 0.0013 ug/mL
 RT: 11.222 min Scan# 1403
 Delta R.T. -0.005 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

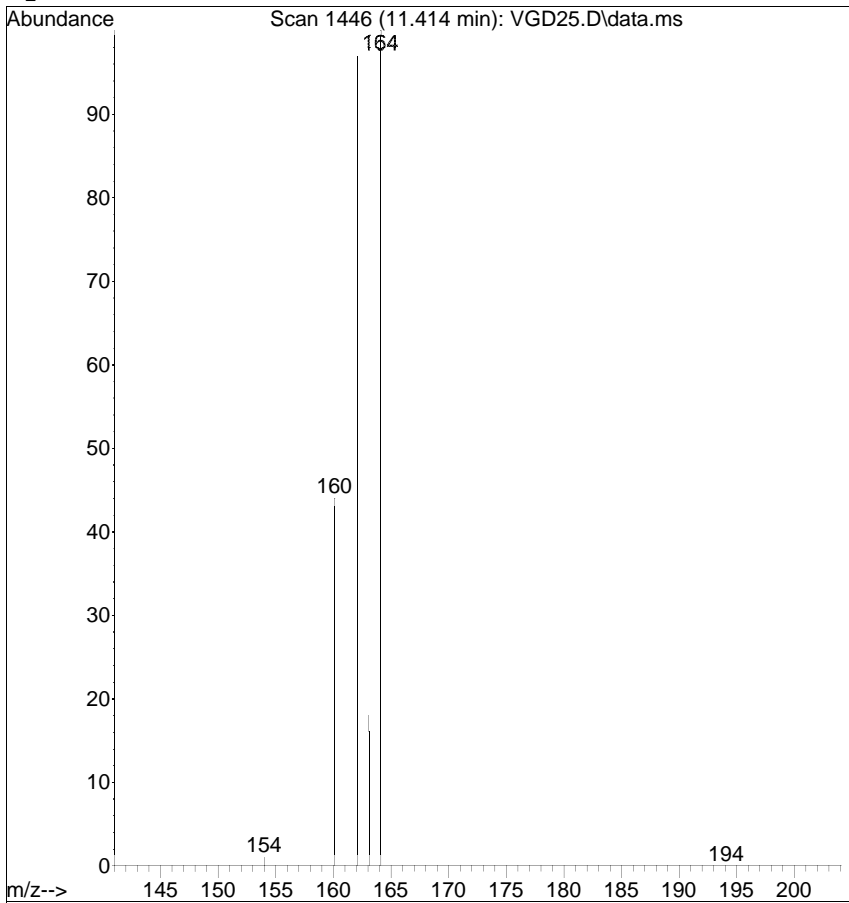
Tgt Ion	Ratio	Lower	Upper
152	100		
151	113.2	1.0	41.0#
153	102.3	0.0	33.1#



Ref

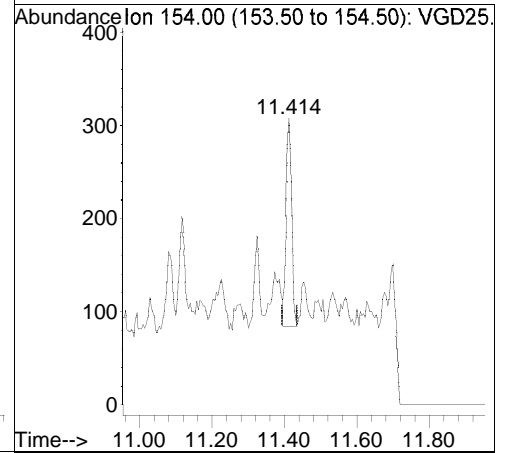


Raw

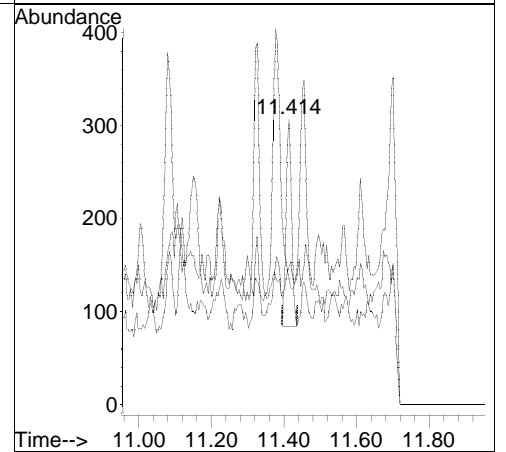
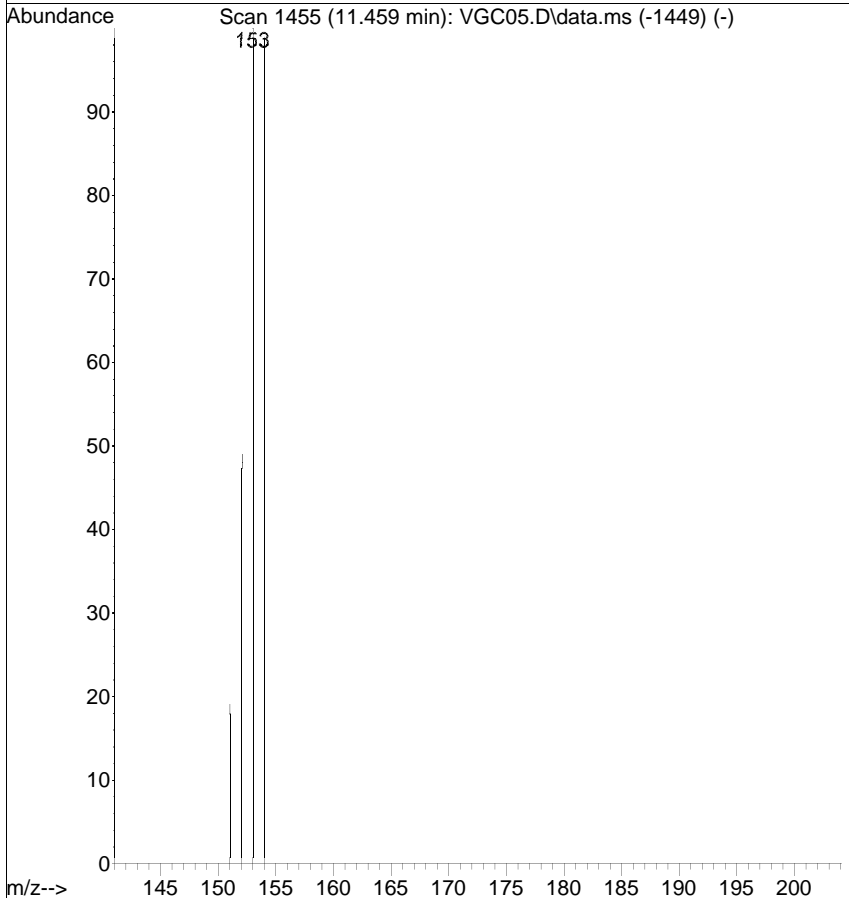


#11
 Acenaphthene
 Concen: 0.0043 ug/mL
 RT: 11.414 min Scan# 1446
 Delta R.T. -0.045 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

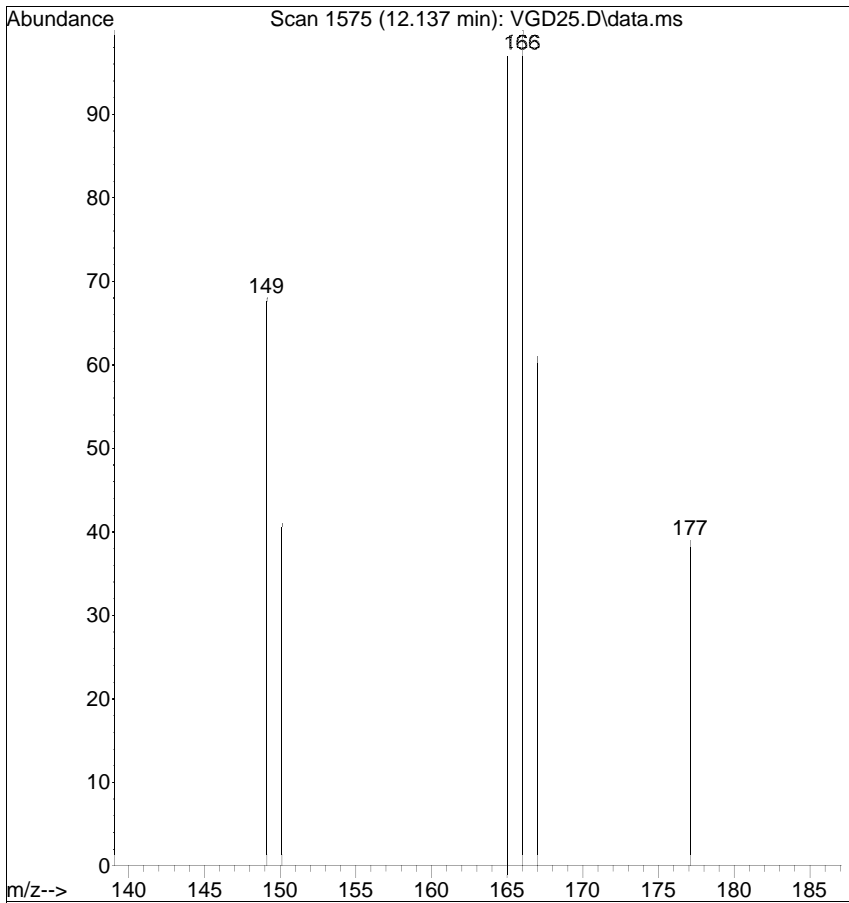
Tgt Ion	Ratio	Lower	Upper
154	100		
152	43.0	35.4	75.4
153	48.5	96.8	136.8#



Ref

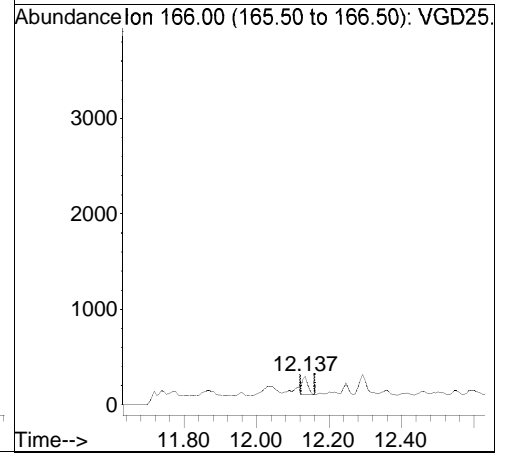


Raw

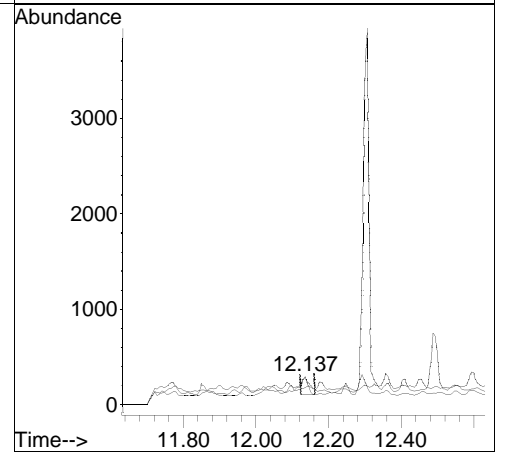
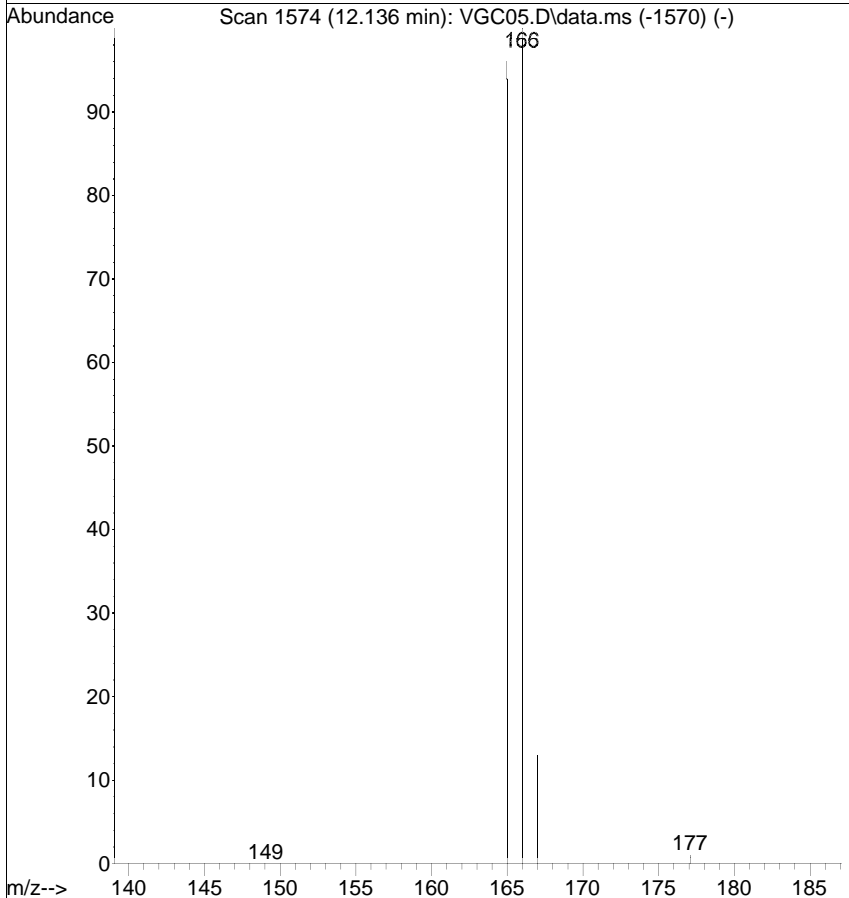


#12
 Fluorene
 Concen: 0.0031 ug/mL
 RT: 12.137 min Scan# 1575
 Delta R.T. 0.001 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

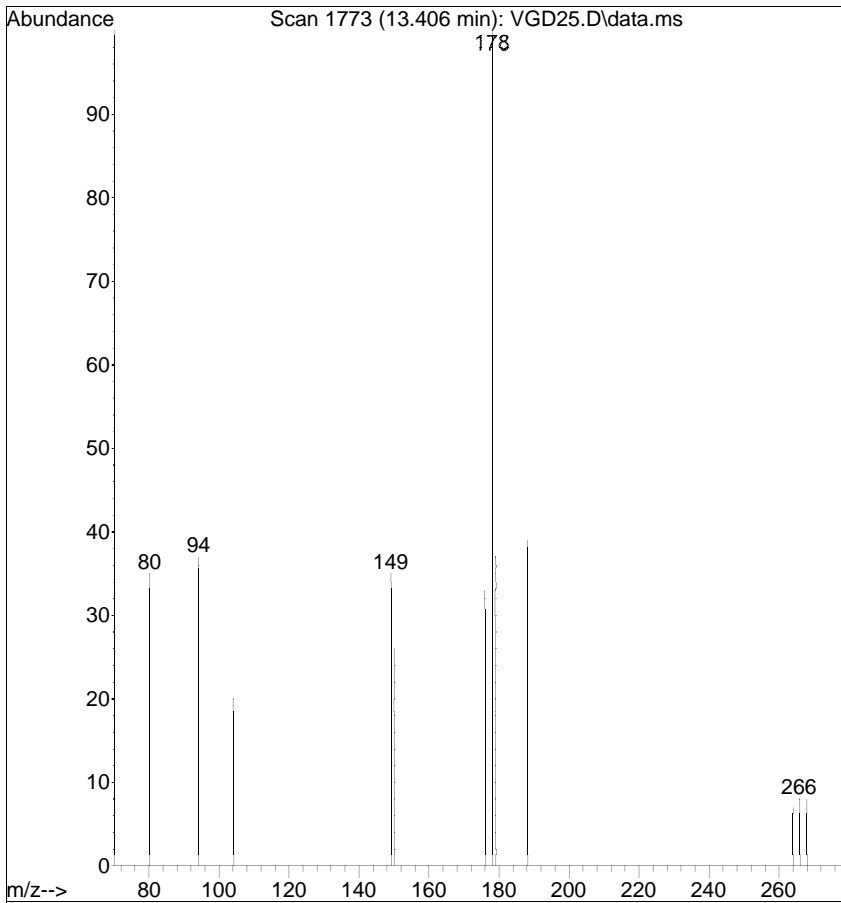
Tgt Ion	Resp	Lower	Upper
166	100		
165	96.6	74.9	114.9
167	60.7	0.0	33.9#



Ref

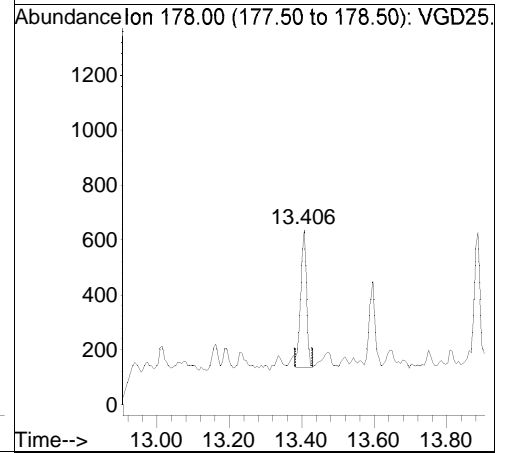


Raw

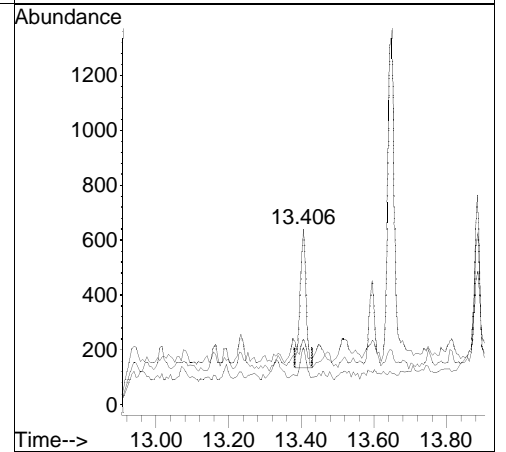
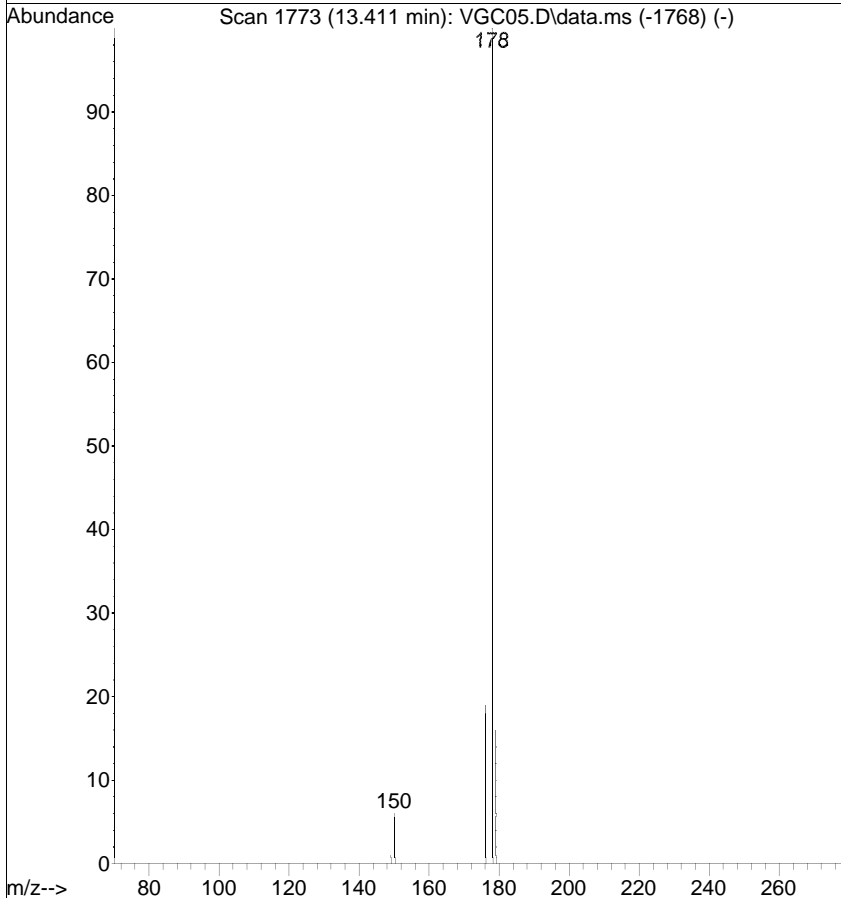


#15
 Phenanthrene
 Concen: 0.0060 ug/mL
 RT: 13.406 min Scan# 1773
 Delta R.T. 0.000 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

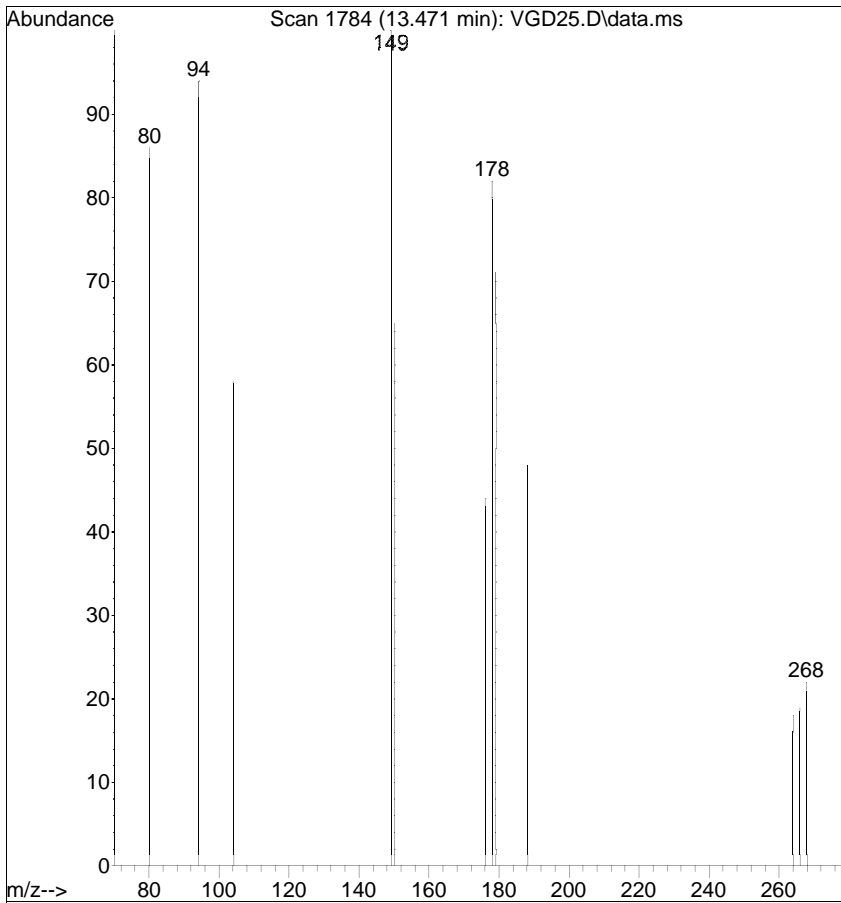
Tgt Ion	Ratio	Lower	Upper
178	100		
179	37.5	0.0	35.0#
176	32.6	0.0	38.9



Ref

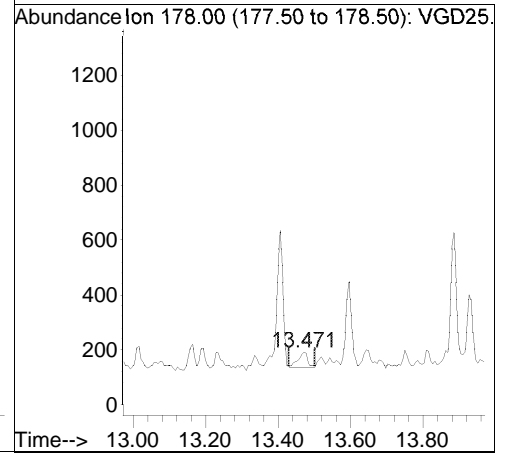


Raw

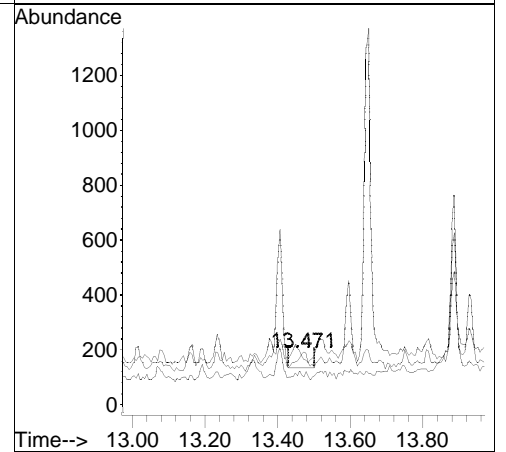
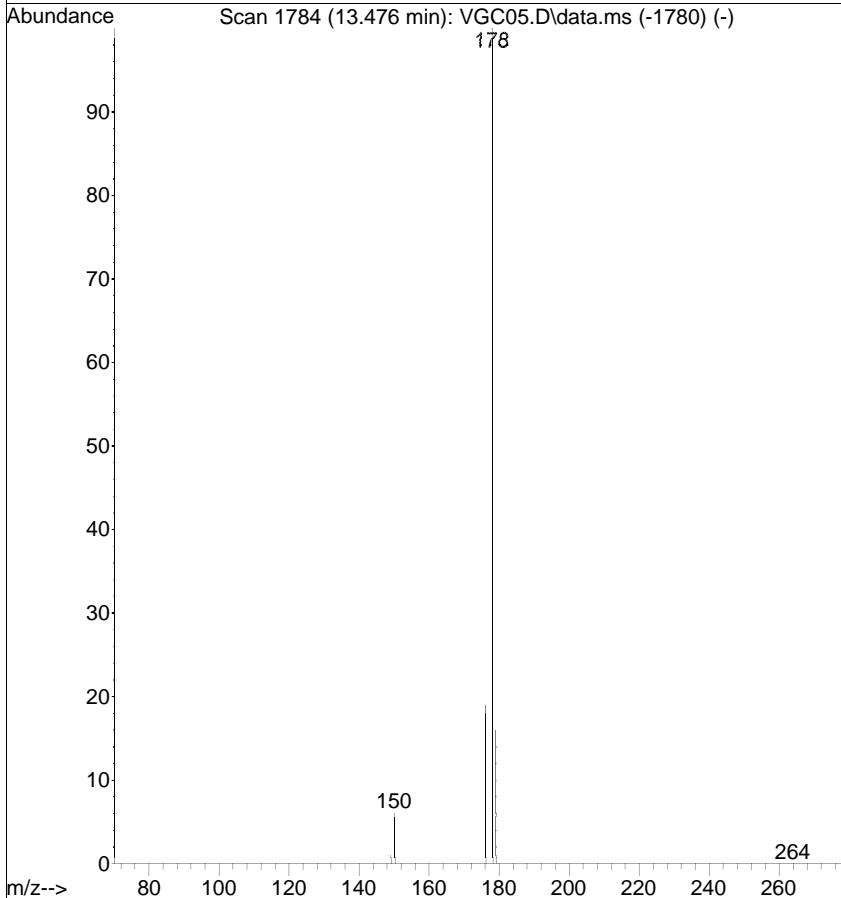


#16
 Anthracene
 Concen: 0.0012 ug/mL
 RT: 13.471 min Scan# 1784
 Delta R.T. 0.000 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

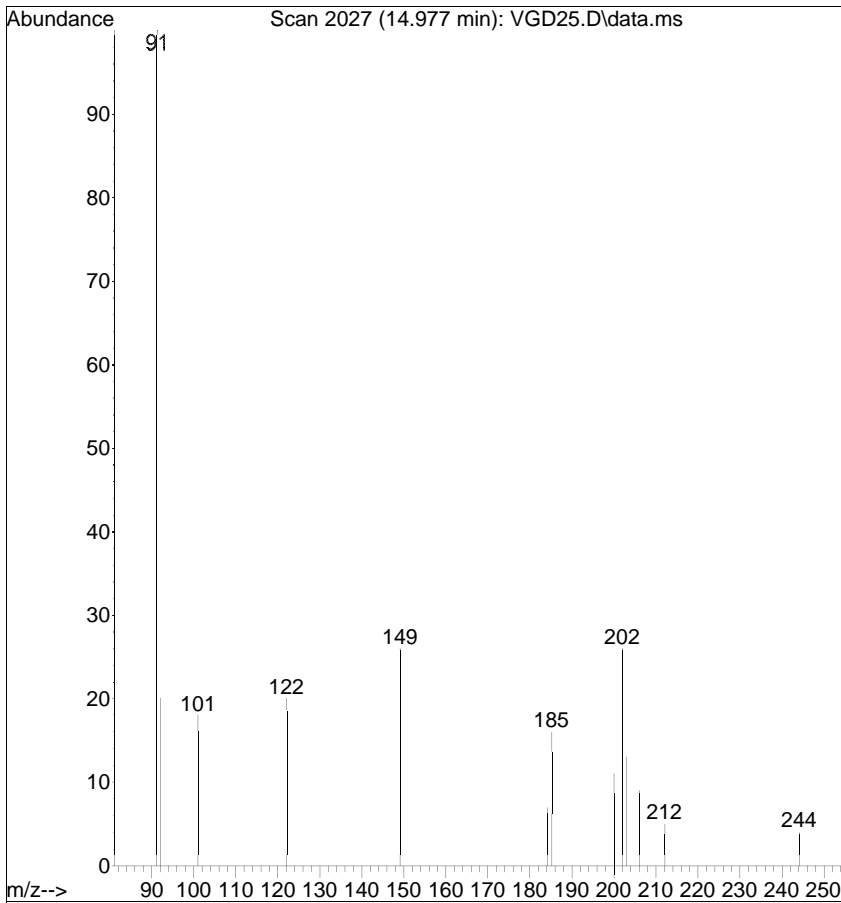
Tgt Ion	Ratio	Lower	Upper
178	100		
179	86.9	0.0	34.4#
176	53.9	0.0	39.5#



Ref

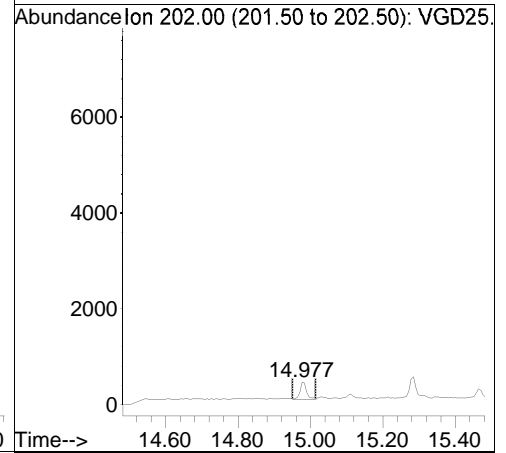


Raw

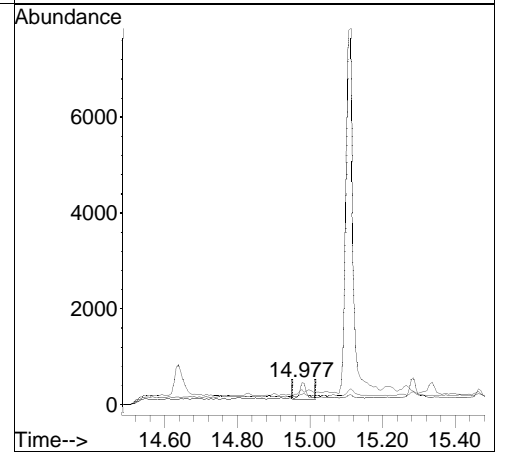
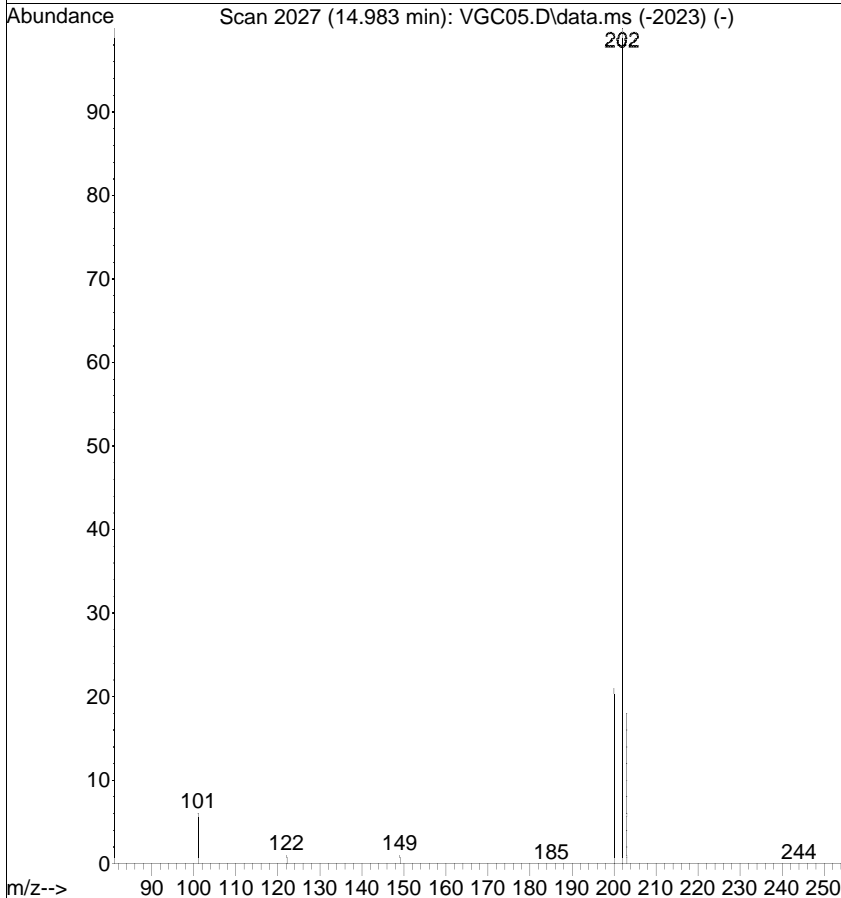


#17
 Fluoranthene
 Concen: 0.0040 ug/mL
 RT: 14.977 min Scan# 2027
 Delta R.T. -0.005 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

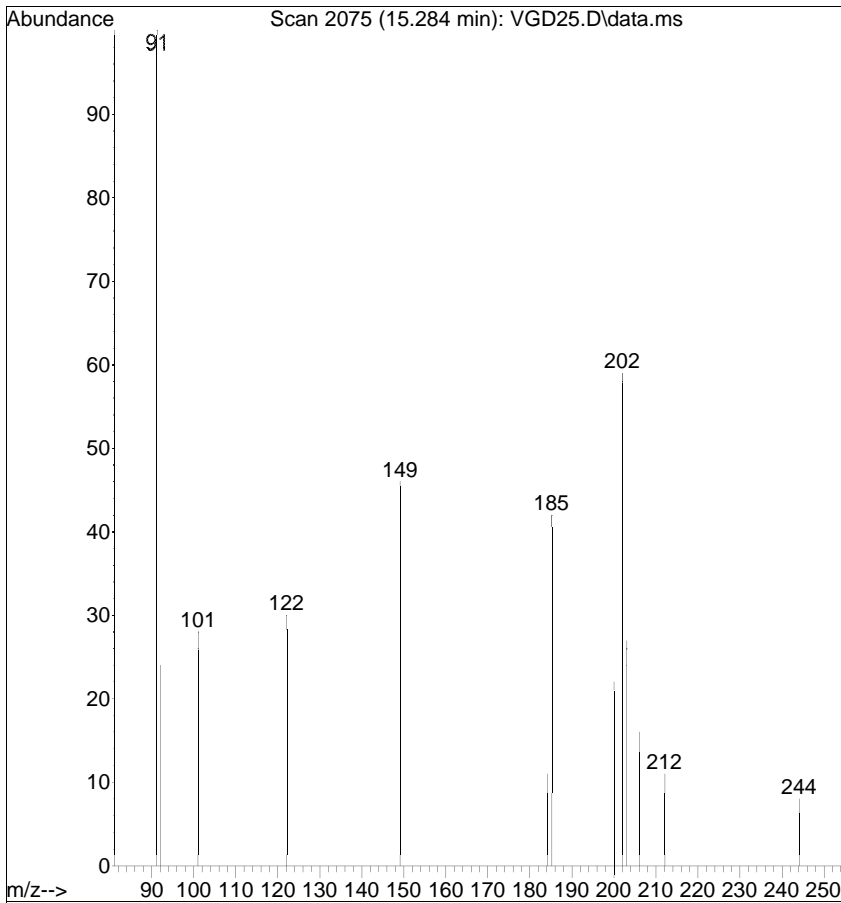
Tgt Ion	Resp	Lower	Upper
202	438		
202	100		
101	68.5	0.0	21.1#
203	48.2	0.0	37.0#



Ref

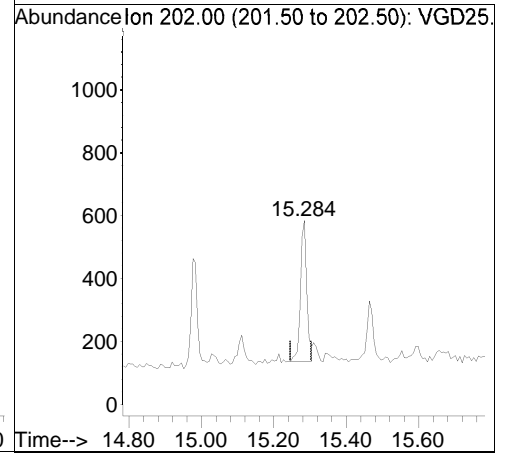


Raw

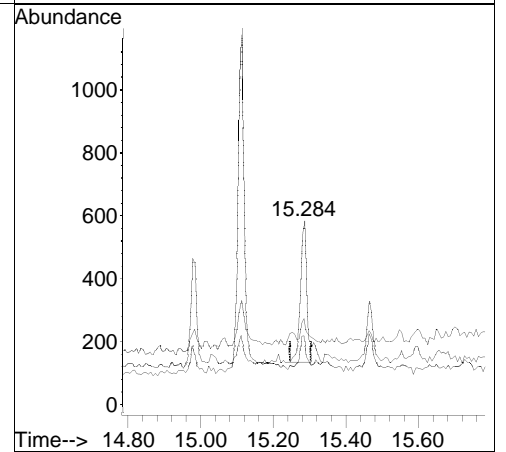
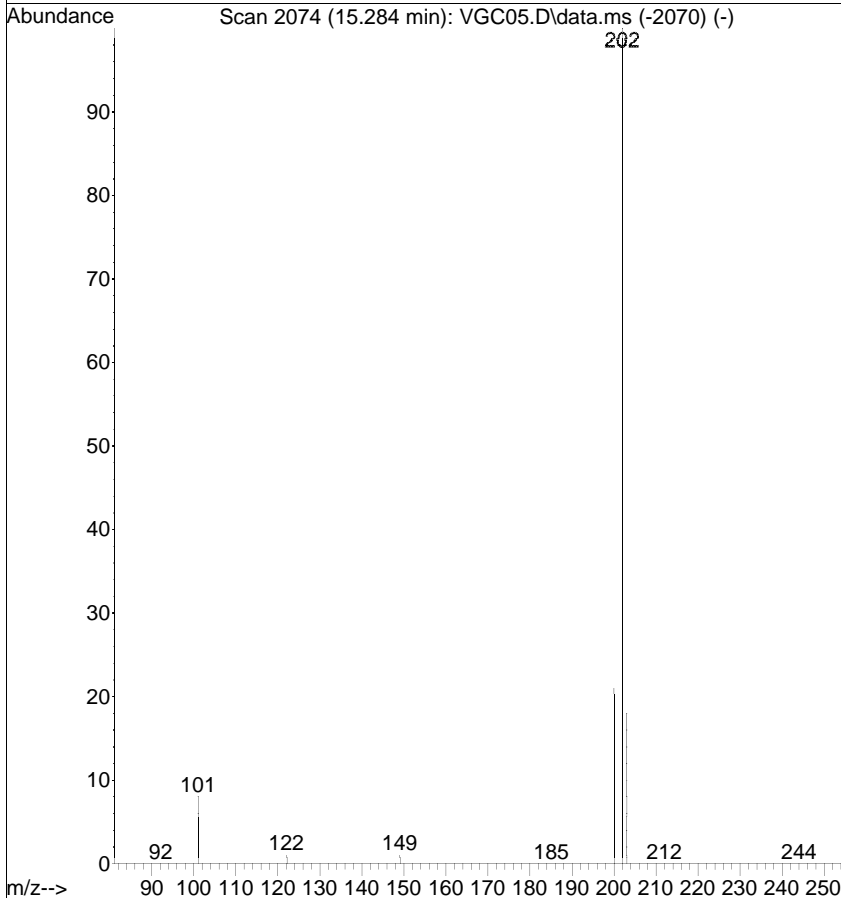


#19
 Pyrene
 Concen: 0.0064 ug/mL
 RT: 15.284 min Scan# 2075
 Delta R.T. 0.001 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

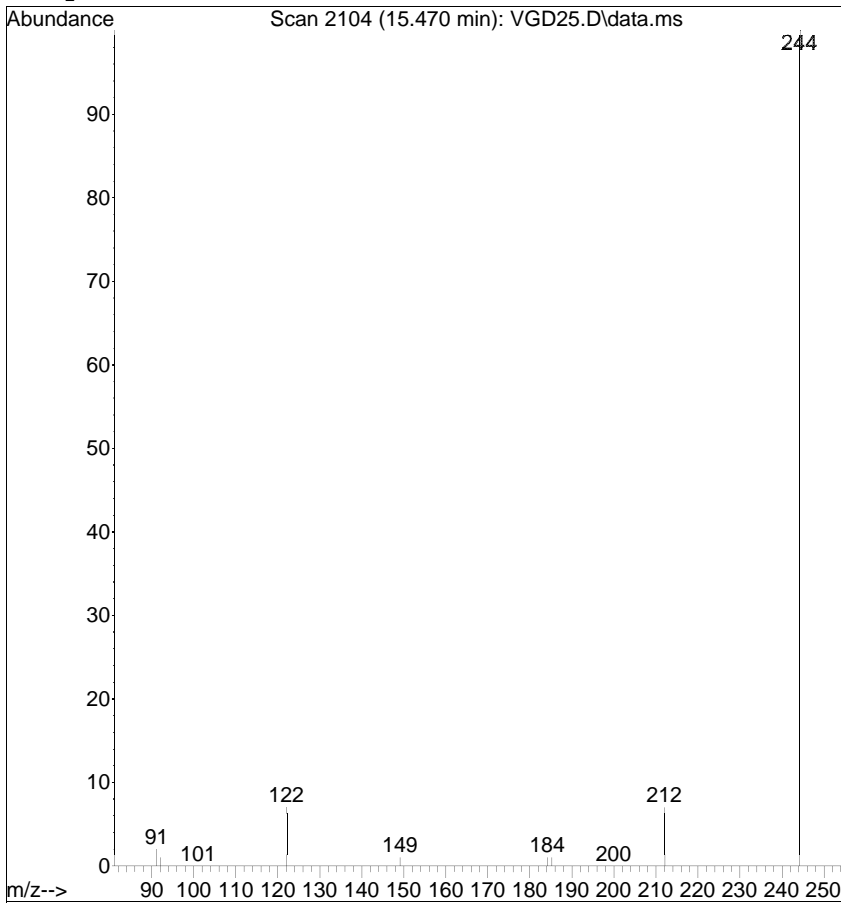
Tgt Ion	Resp	Lower	Upper
202	539		
200	37.6	1.1	41.1
203	46.8	0.0	37.7#



Ref

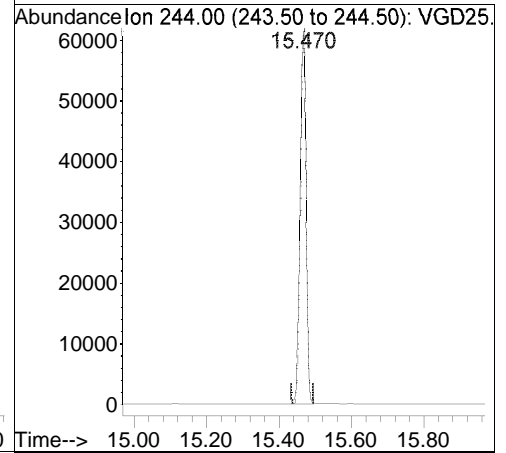


Raw

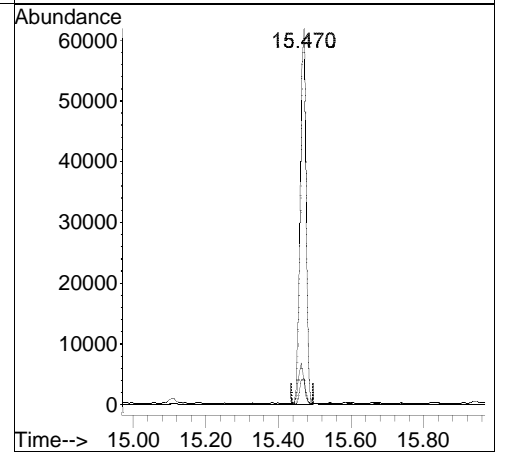
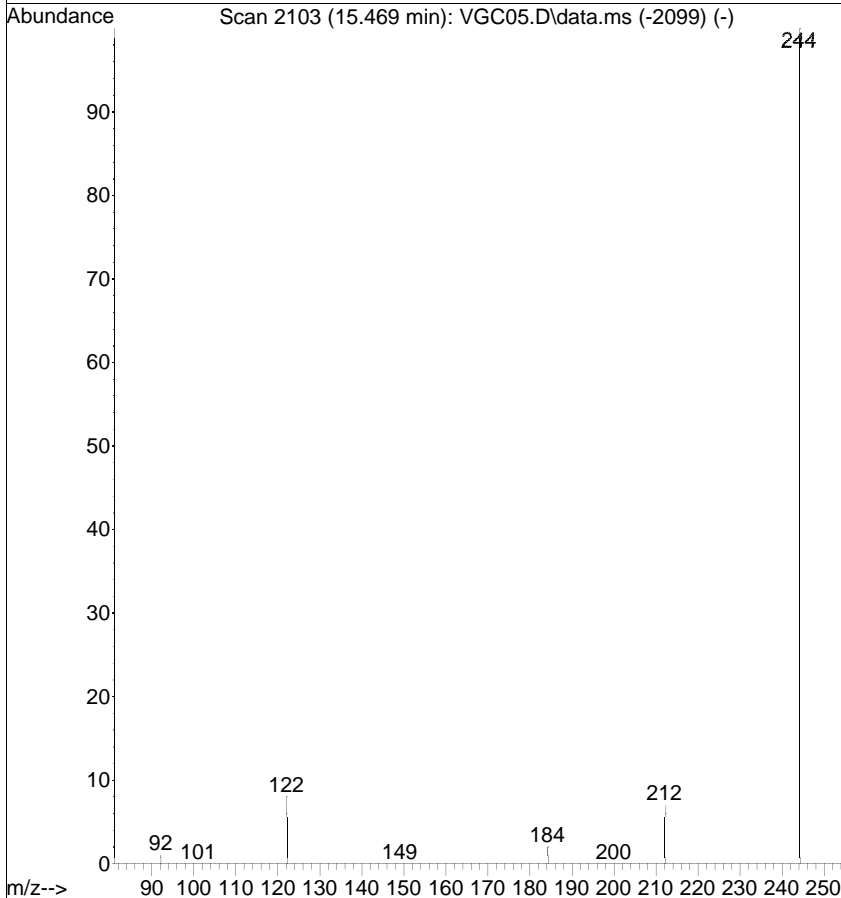


#20
 Terphenyl-d14
 Concen: 0.9340 ug/mL
 RT: 15.470 min Scan# 2104
 Delta R.T. 0.001 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

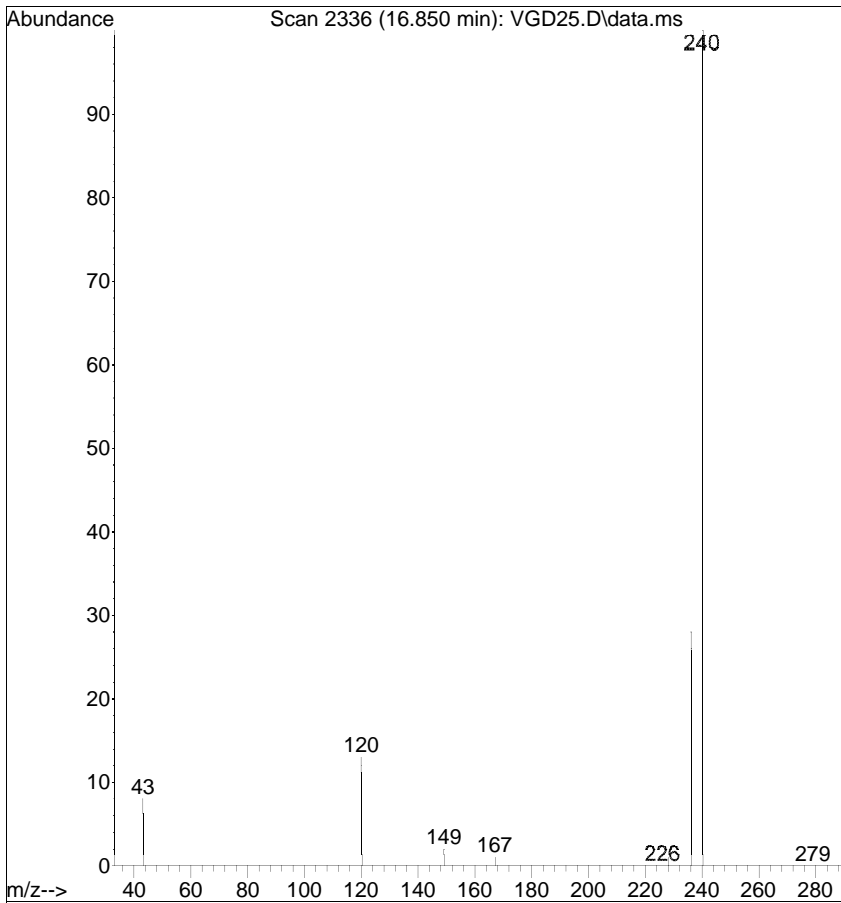
Tgt Ion	Resp	Lower	Upper
244	100		
122	6.9	0.0	25.0
212	7.2	0.0	31.4



Ref

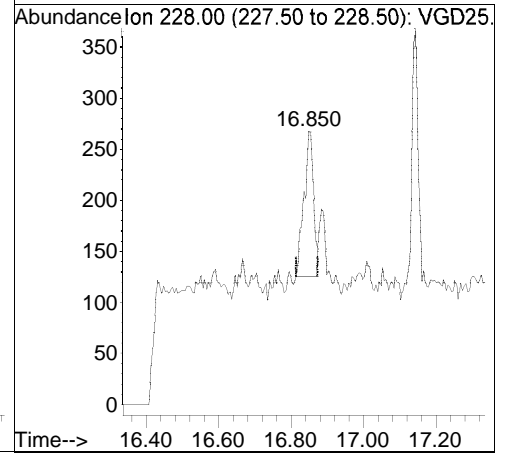


Raw

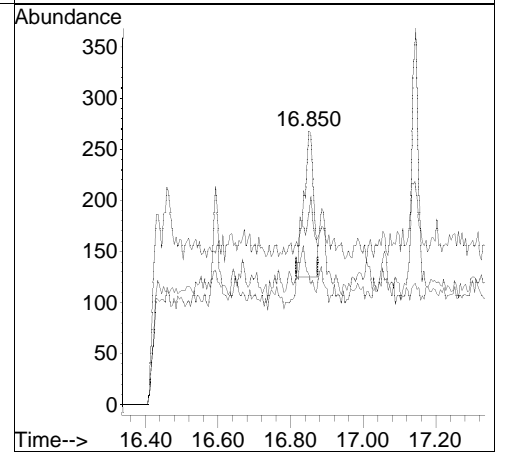
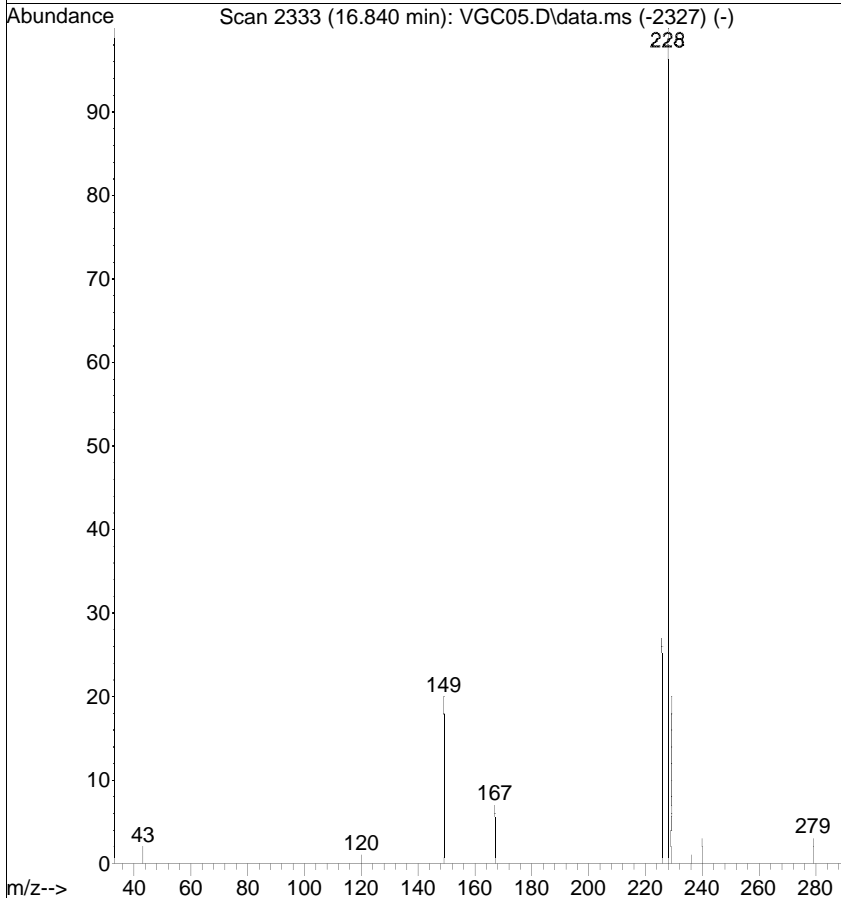


#21
 Benzo(a)anthracene
 Concen: 0.0035 ug/mL
 RT: 16.850 min Scan# 2336
 Delta R.T. 0.015 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

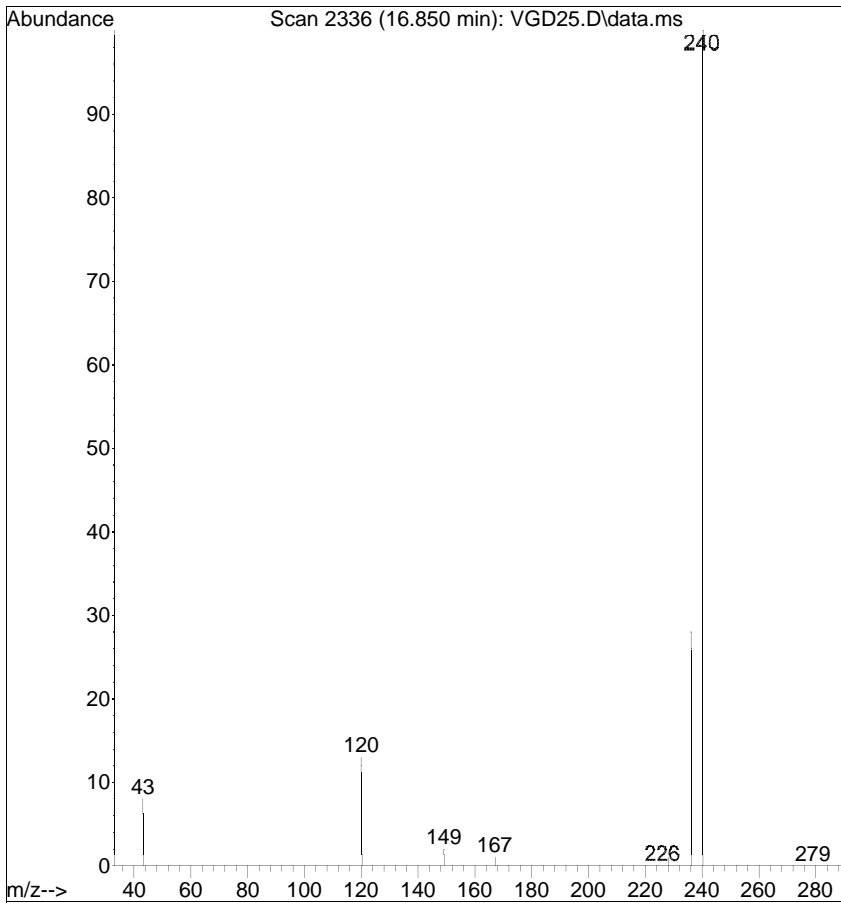
Tgt Ion	Ratio	Lower	Upper
228	100		
229	70.9	0.1	40.1#
226	47.4	9.3	49.3



Ref

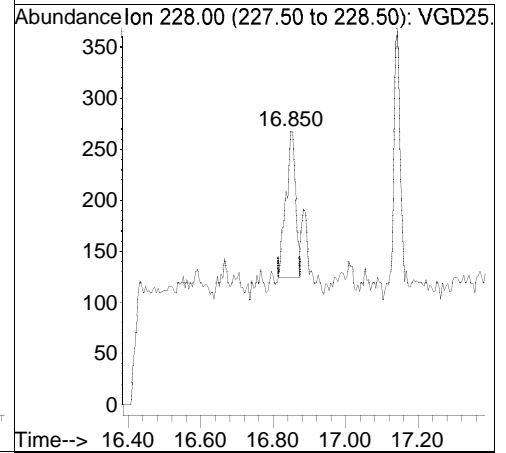


Raw

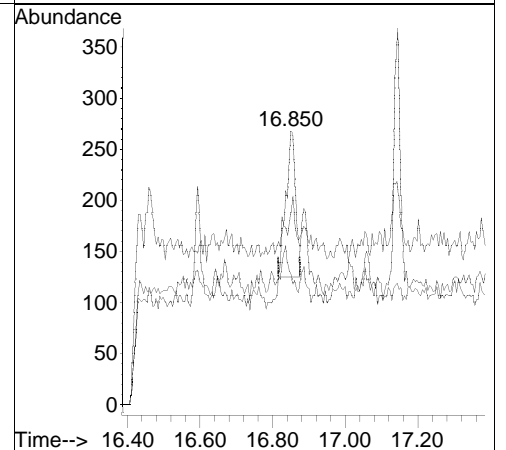
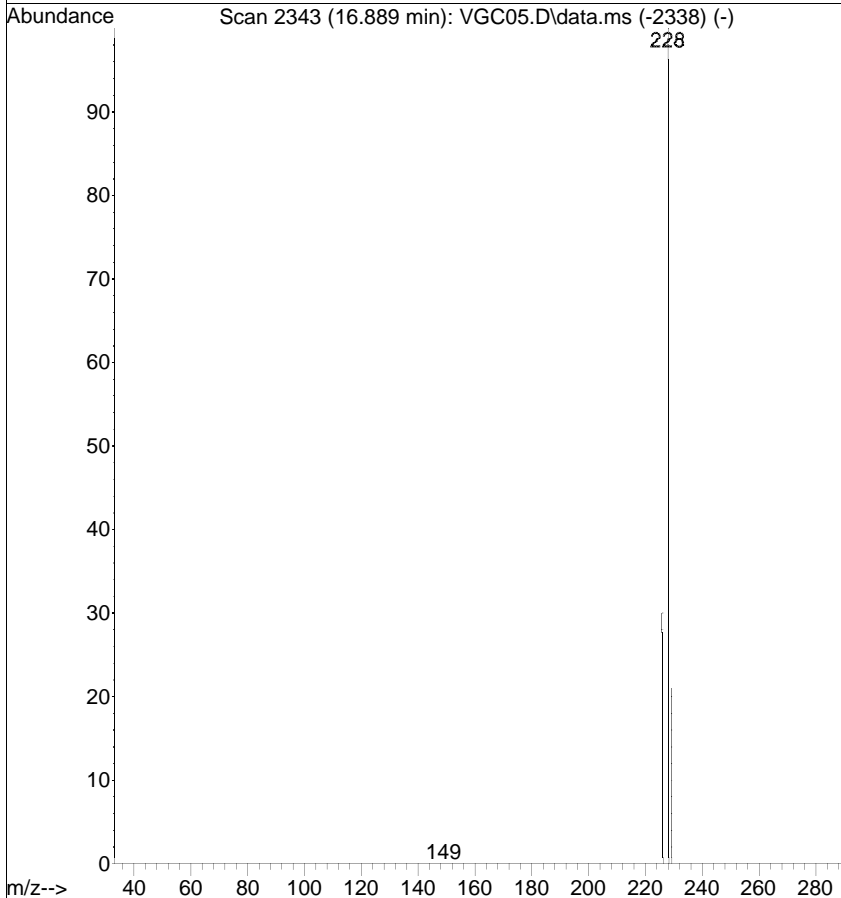


#22
 Chrysene
 Concen: 0.0037 ug/mL
 RT: 16.850 min Scan# 2336
 Delta R.T. -0.035 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

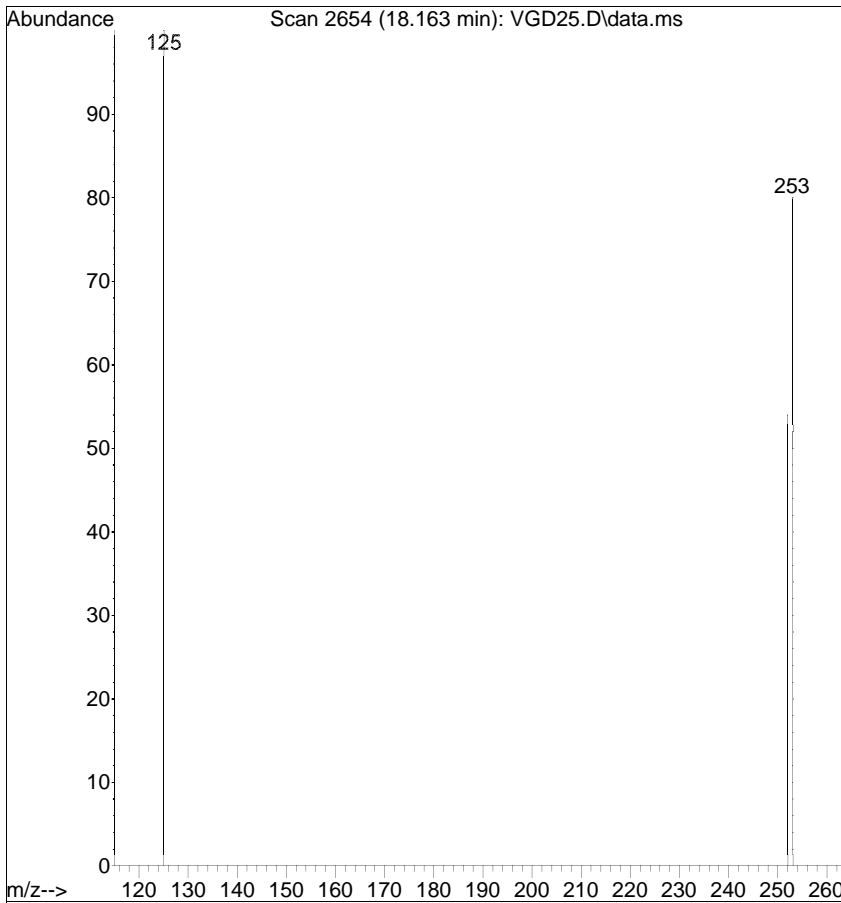
Tgt Ion	Ratio	Lower	Upper
228	100		
226	47.4	13.4	53.4
229	70.9	0.8	40.8#



Ref

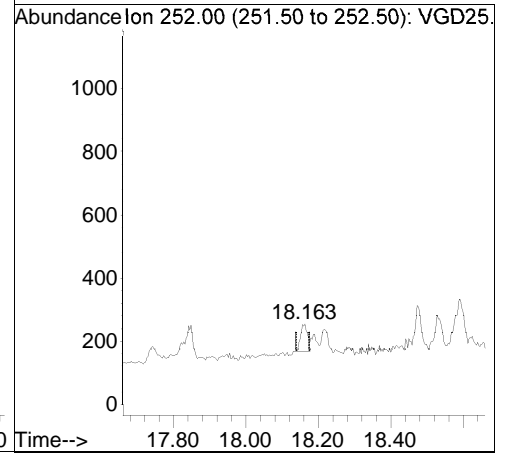


Raw

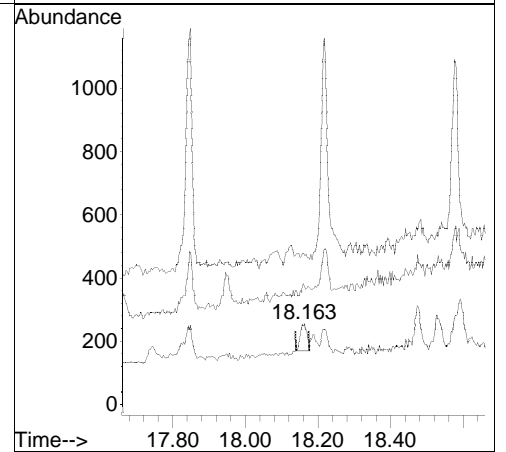
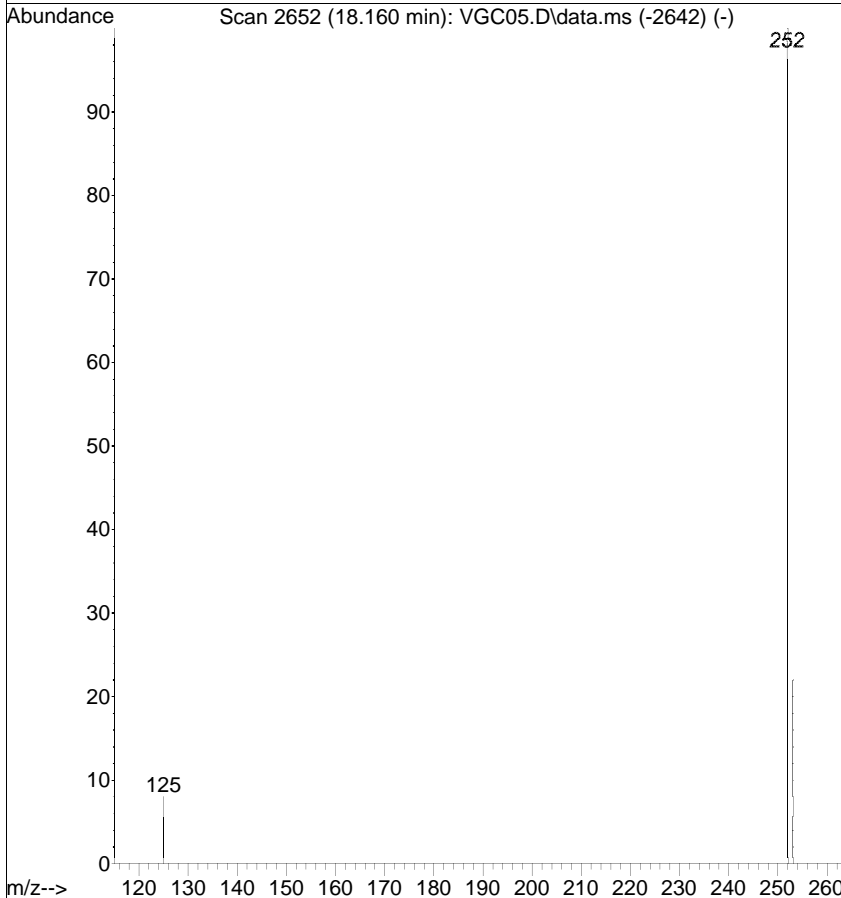


#24
 Benzo(b)fluoranthene
 Concen: 0.0023 ug/mL
 RT: 18.163 min Scan# 2654
 Delta R.T. 0.007 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

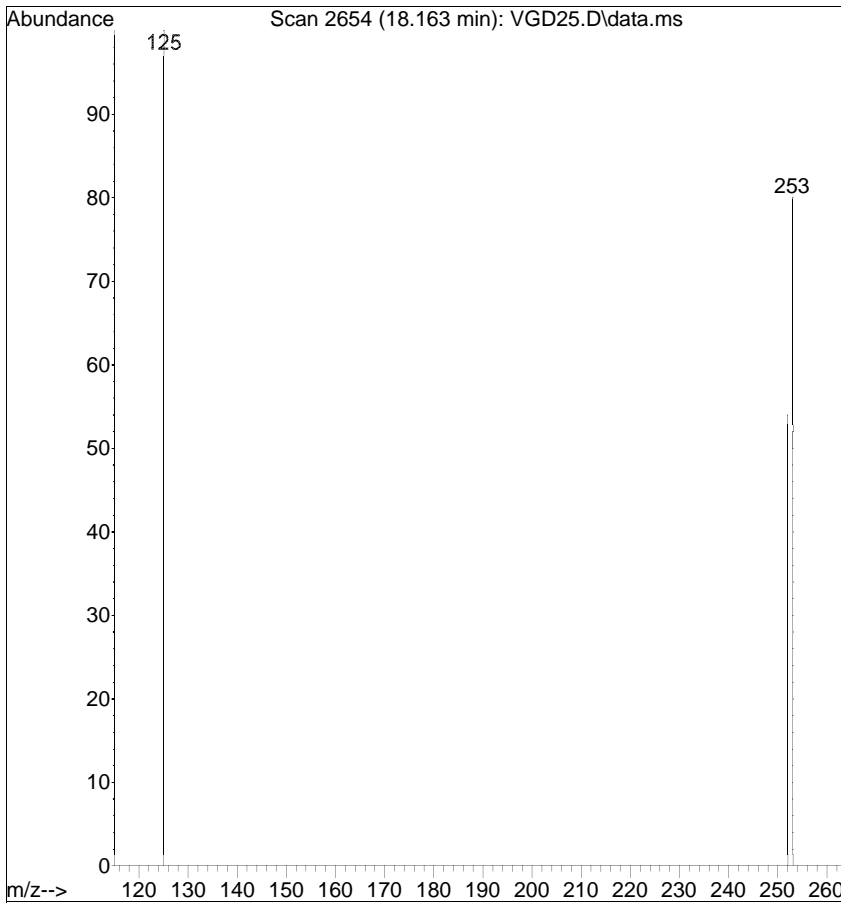
Tgt Ion	Ratio	Lower	Upper
252	100		
253	147.6	1.0	41.0#
125	185.0	0.0	20.9#



Ref



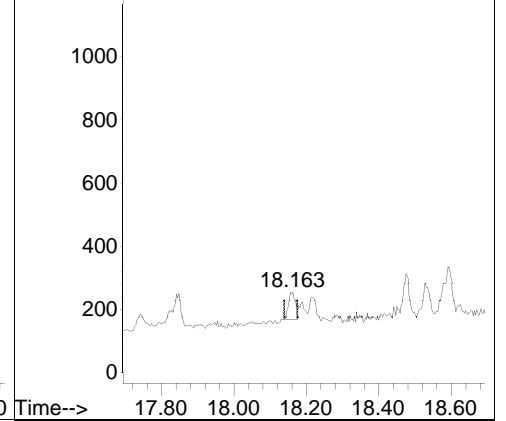
Raw



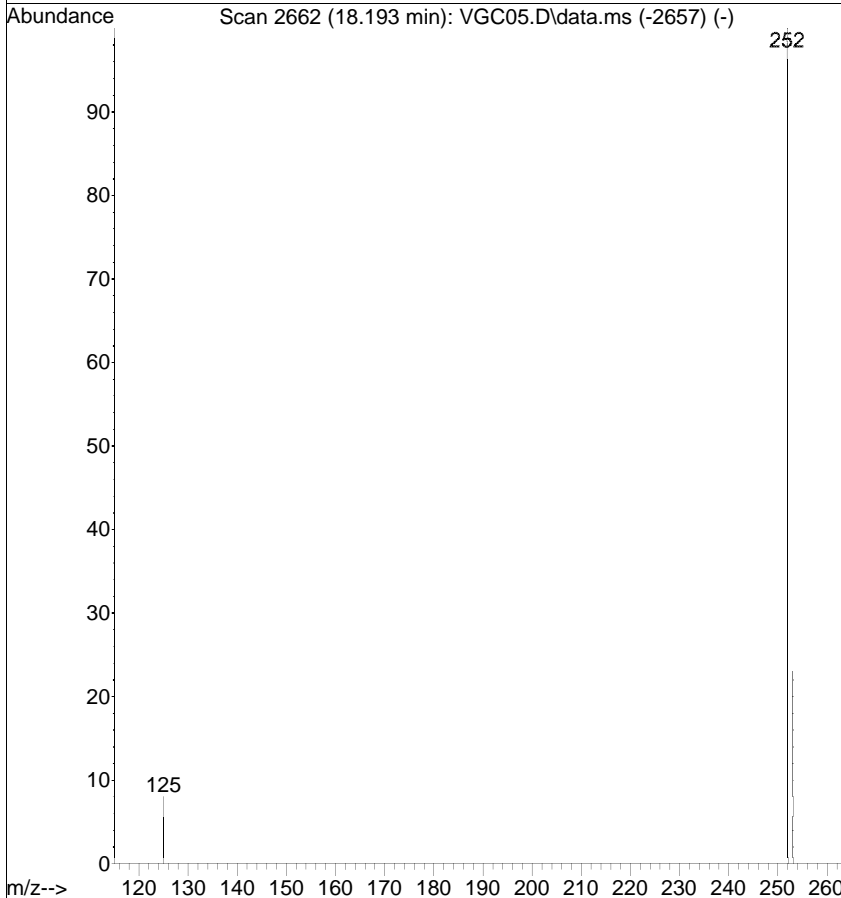
#25
 Benzo(k)fluoranthene
 Concen: 0.0021 ug/mL
 RT: 18.163 min Scan# 2654
 Delta R.T. -0.026 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

Tgt Ion	Ratio	Lower	Upper
252	100		
253	147.6	1.1	41.1#
125	185.0	0.0	21.1#

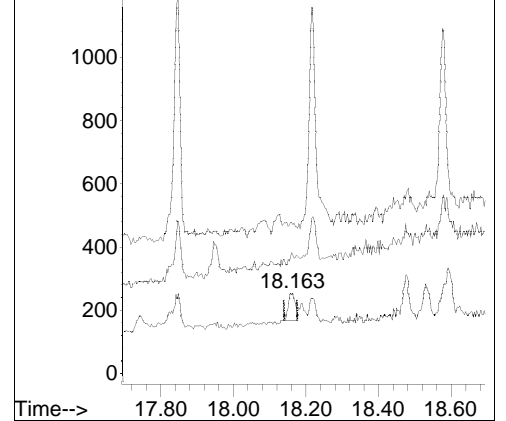
Abundance Ion 252.00 (251.50 to 252.50): VGD25



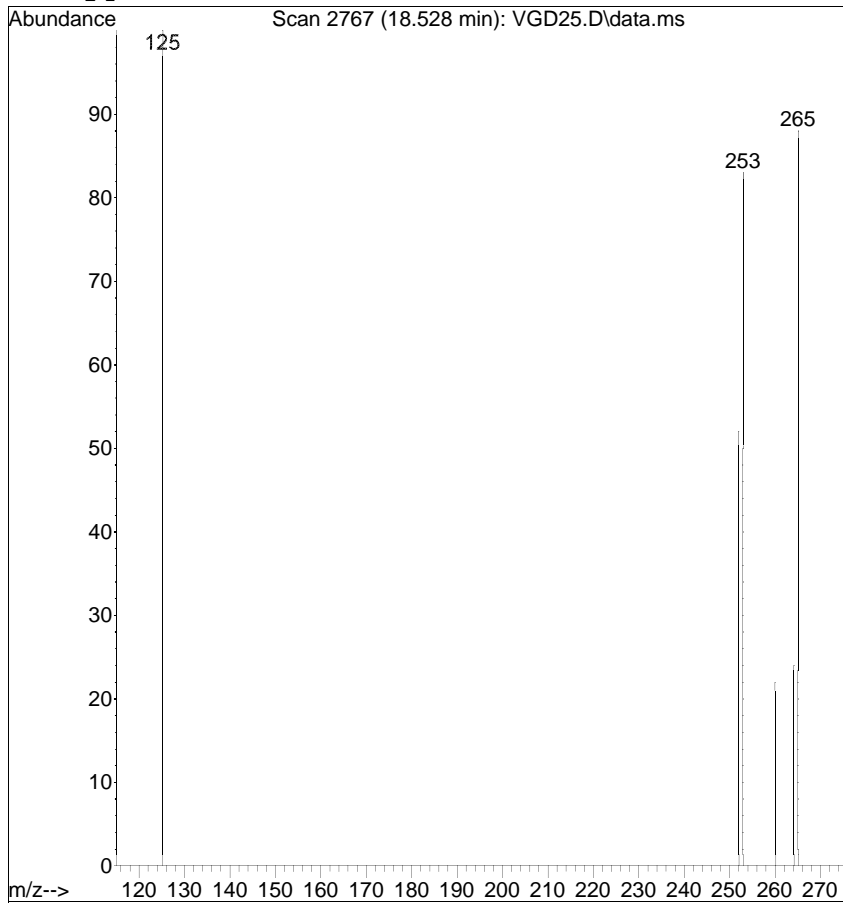
Ref



Abundance



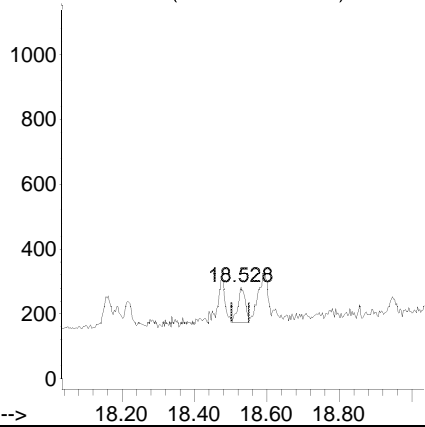
Raw



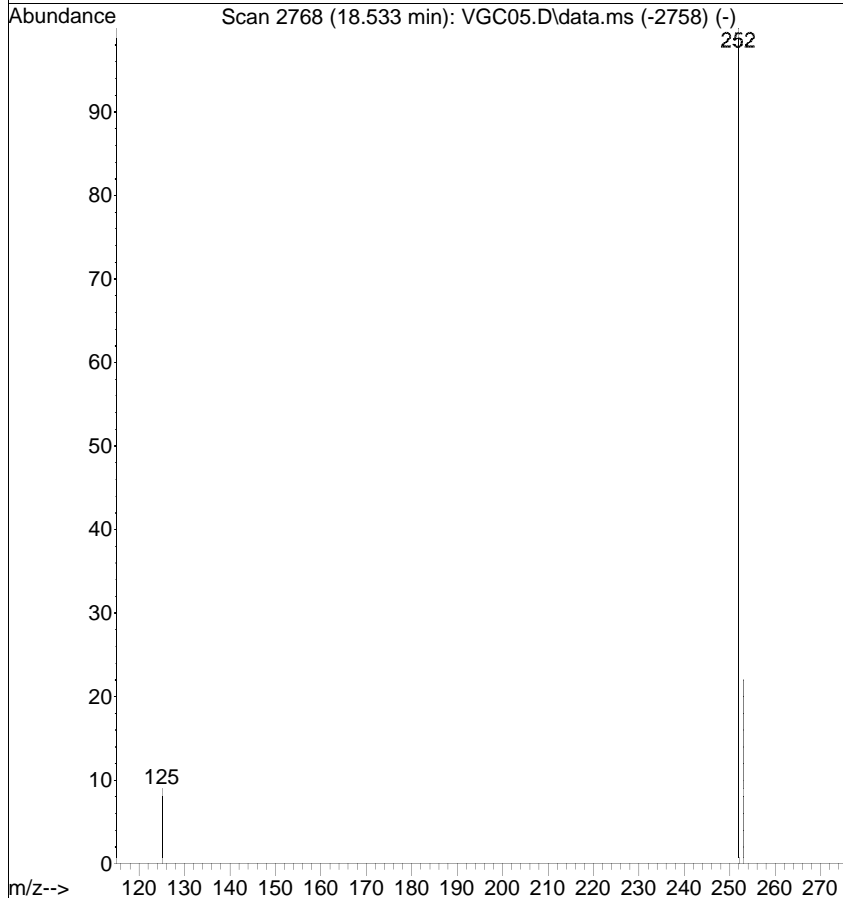
#26
 Benzo(a)pyrene
 Concen: 0.0033 ug/mL
 RT: 18.528 min Scan# 2767
 Delta R.T. -0.002 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

Tgt Ion	Resp	Lower	Upper
252	150		
253	159.7	3.4	43.4#
125	192.9	0.0	20.9#

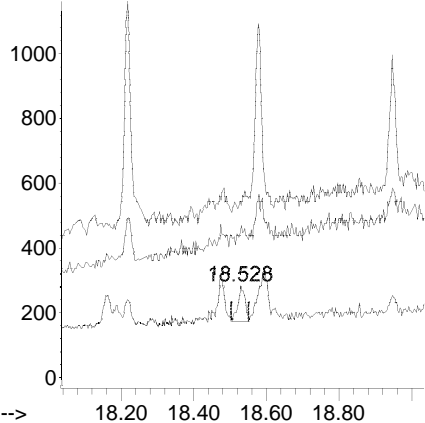
Abundance Ion 252.00 (251.50 to 252.50): VGD25



Ref

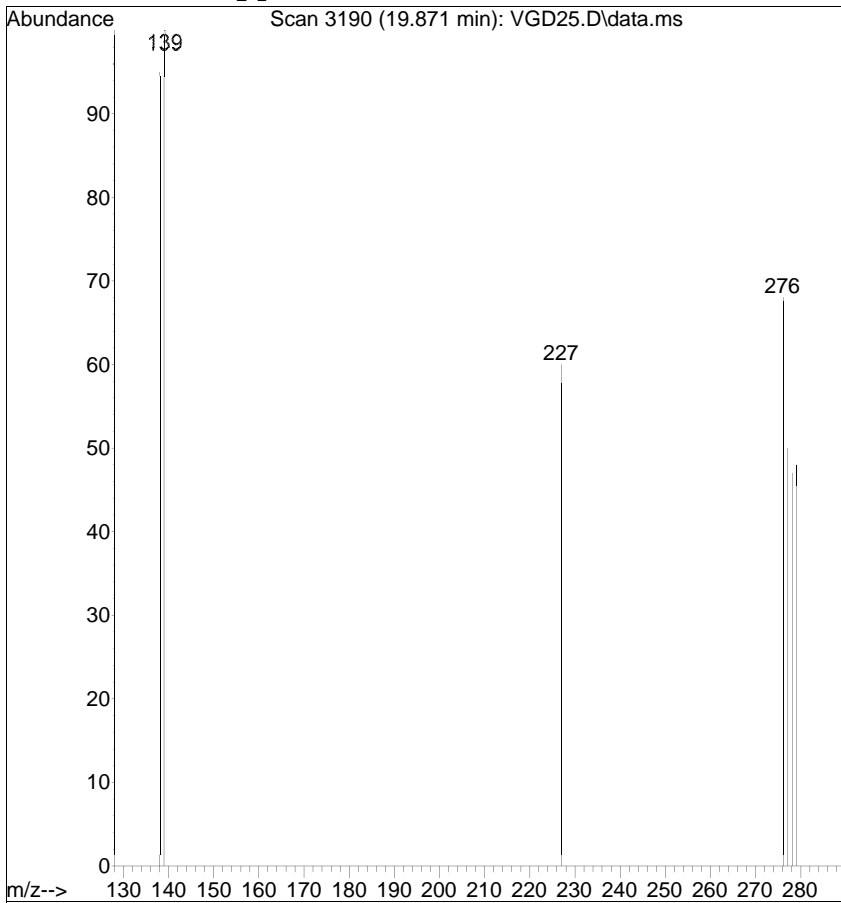


Abundance



[Indeno(1,2,3-cd)pyrene; <RL; u]

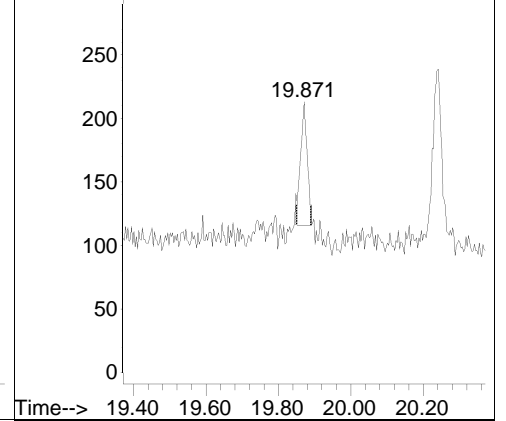
Raw



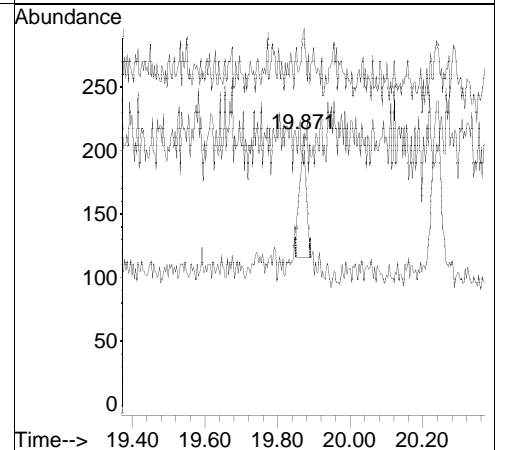
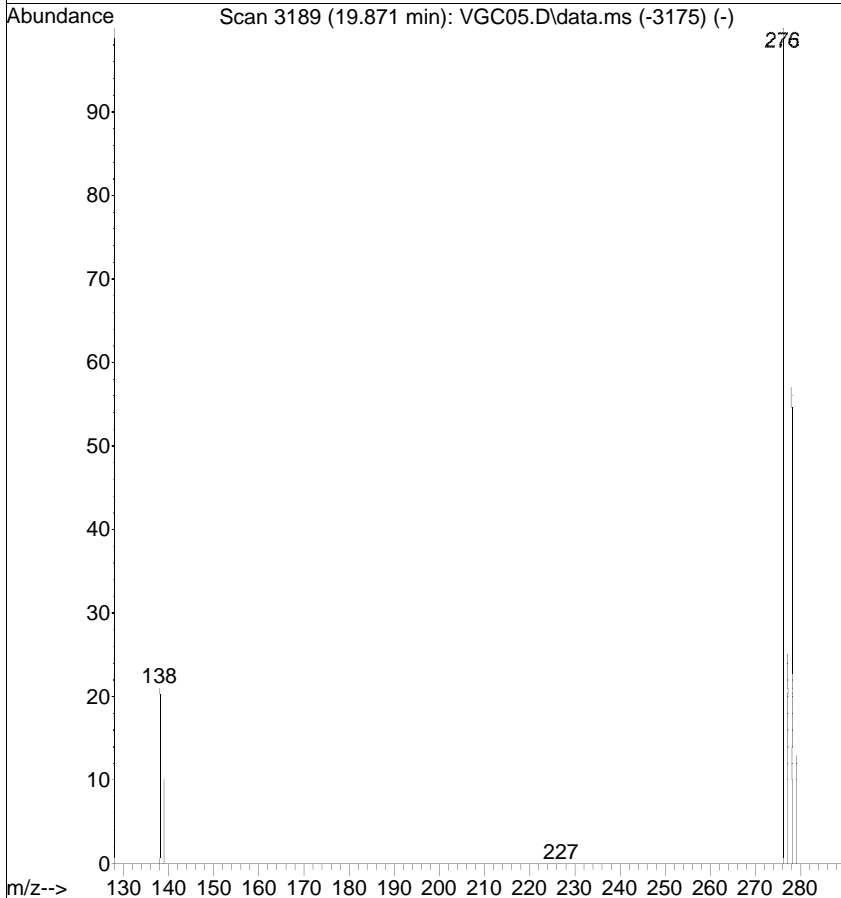
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.0024 ug/mL
 RT: 19.871 min Scan# 3190
 Delta R.T. 0.004 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

Tgt Ion	Ratio	Lower	Upper	Resp
276	100			121
138	139.0	0.0	23.1#	
227	88.3	0.0	21.0#	

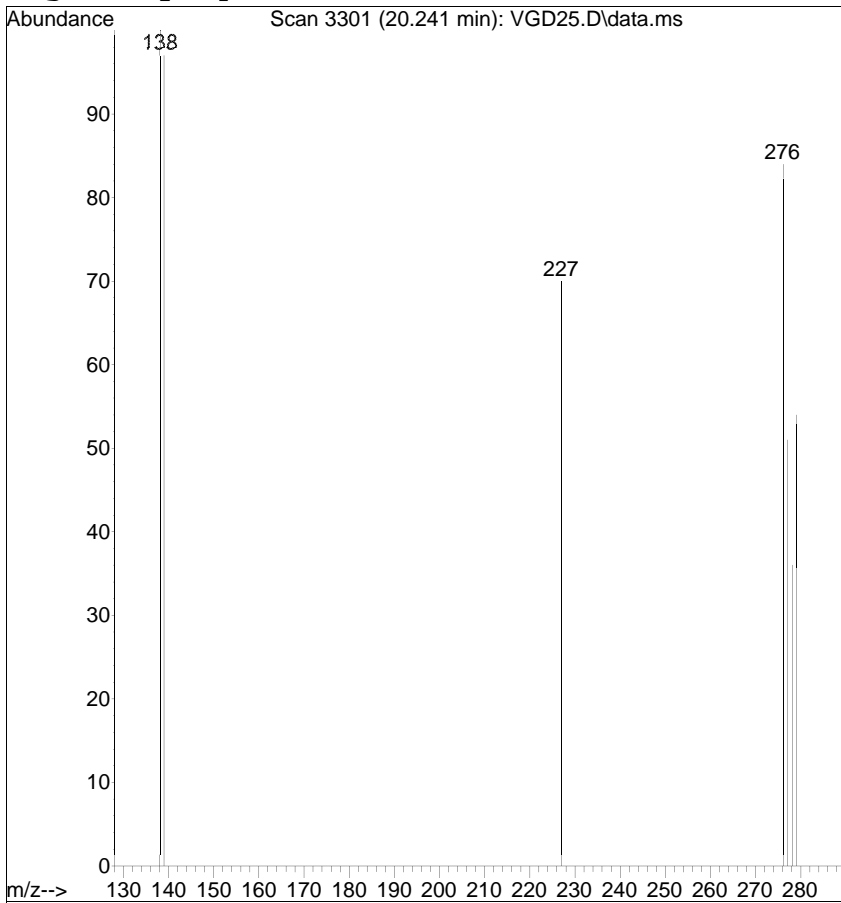
Abundance Ion 276.00 (275.50 to 276.50): VGD25



Ref

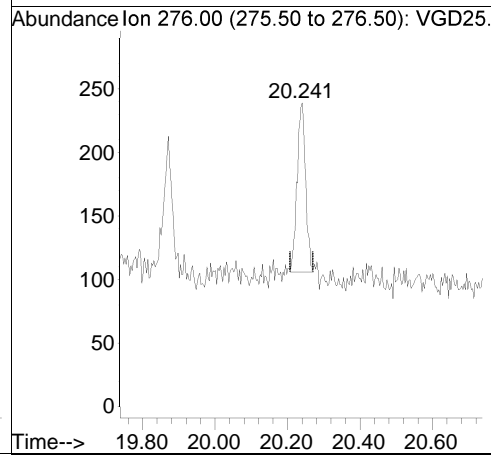


Raw

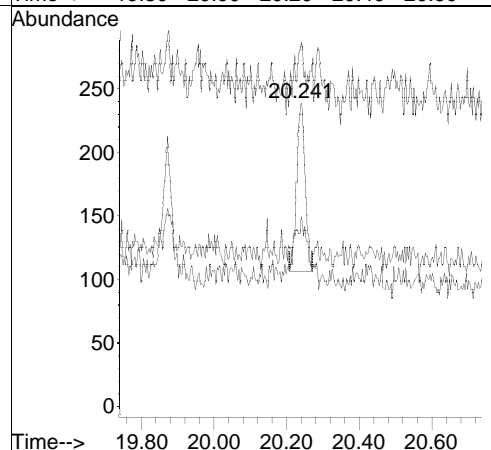
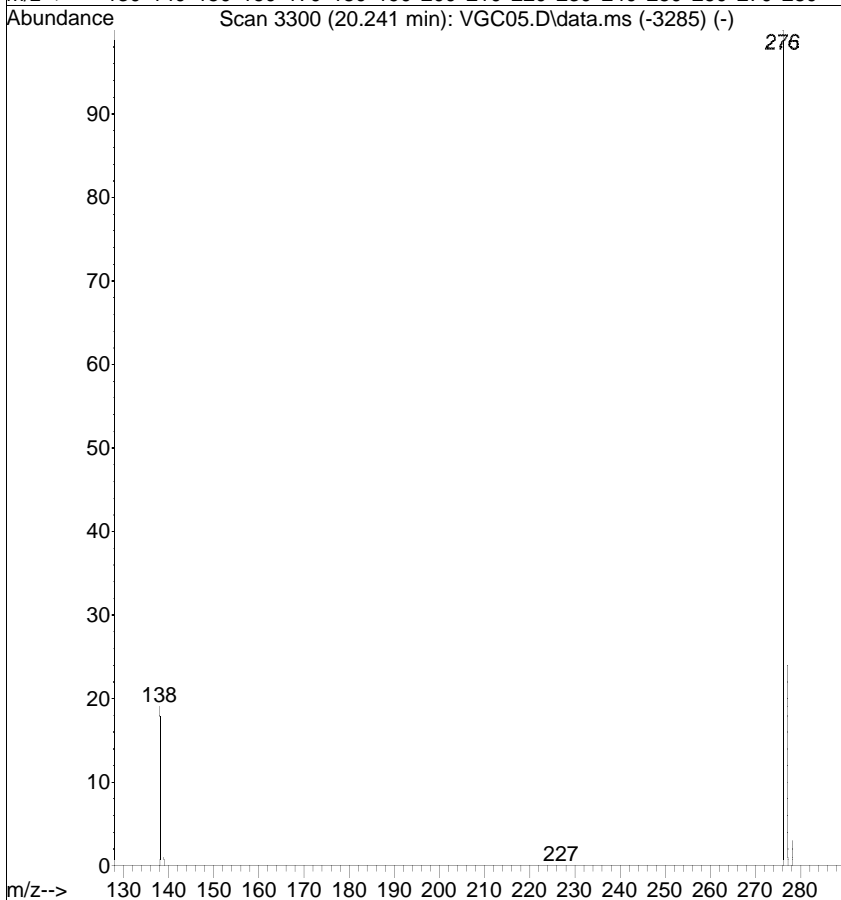


#29
 Benzo(g,h,i)perylene
 Concen: 0.0054 ug/mL
 RT: 20.241 min Scan# 3301
 Delta R.T. 0.007 min
 Lab File: VGD25.D
 Acq: 13 Jul 2018 11:52 pm

Tgt Ion	Ratio	Lower	Upper	Resp
276	100			217
138	118.8	0.0	22.1#	
277	60.7	2.5	42.5#	



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 301314-003 Client ID : BR11-1GW02
 Seqnum : 528284313022 Matrix : Water Acct : TRC-SF (MJD)
 File : vgg22 Batch : 261249 Time : 16-JUL-2018 21:28
 Cal : 528278537001 Caldate : 12-JUL-2018
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.06850	0.07 J	0.1		u
Acenaphthylene	0.005900	ND	0.1		u
Acenaphthene	0.003800	ND	0.1		u
Fluorene	0.006200	ND	0.1		u
Phenanthrene	0.01480	ND	0.1		u
Anthracene	0.002300	ND	0.1		u
Fluoranthene	0.004700	ND	0.1		u
Pyrene	0.005300	ND	0.1		u
Benzo(a)anthracene	0.003300	ND	0.1		u
Chrysene	0.001600	ND	0.1		u
Benzo(b)fluoranthene	0.001900	ND	0.1		u
Benzo(k)fluoranthene	0.001700	ND	0.1		u
Benzo(a)pyrene	0.001500	ND	0.1		u
Indeno(1,2,3-cd)pyrene	0.002100	ND	0.1		u
Dibenz(a,h)anthracene	0	ND	0.1		u
Benzo(g,h,i)perylene	0.003900	ND	0.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.8241	1.000	0.8241	82	48-124	u
2-Fluorobiphenyl	0.6553	1.000	0.6553	66	51-120	u
Terphenyl-d14	0.3103	1.000	0.3103	31	25-120	u

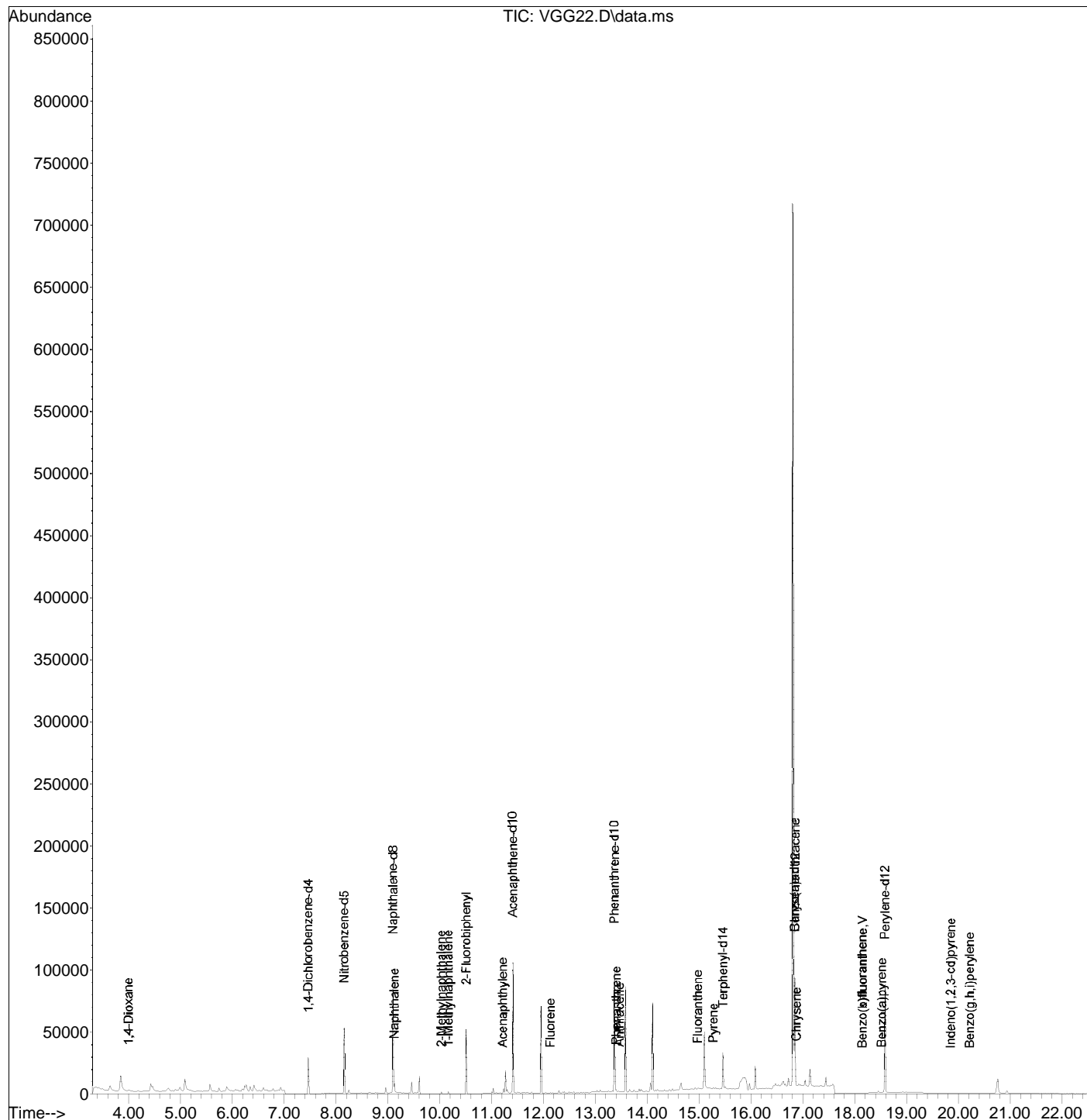
ISTD (CCV vgg04)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	77907	74845	-3.93	9.10	9.09	-0.01
Acenaphthene-d10	48706	38566	-20.82	11.41	11.41	0.00
Phenanthrene-d10	93960	89730	-4.50	13.37	13.36	-0.01
Chrysene-d12	76876	68093	-11.42	16.85	16.84	-0.01
Perylene-d12	67002	62562	-6.63	18.59	18.58	-0.01

Analyst: JW1 Date: 07/17/18 Reviewer: LW Date: 07/17/18

u=use

Data Path : G:\csinput.net\DATA\071618\
 Data File : VGG22.D
 Acq On : 16 Jul 2018 9:28 pm
 Operator :
 Sample : S,301314-003
 Misc : 261249,1,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 16 21:51:19 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\071618\
 Data File : VGG22.D
 Acq On : 16 Jul 2018 9:28 pm
 Operator :
 Sample : S,301314-003
 Misc : 261249,1,
 ALS Vial : 22 Sample Multiplier: 1

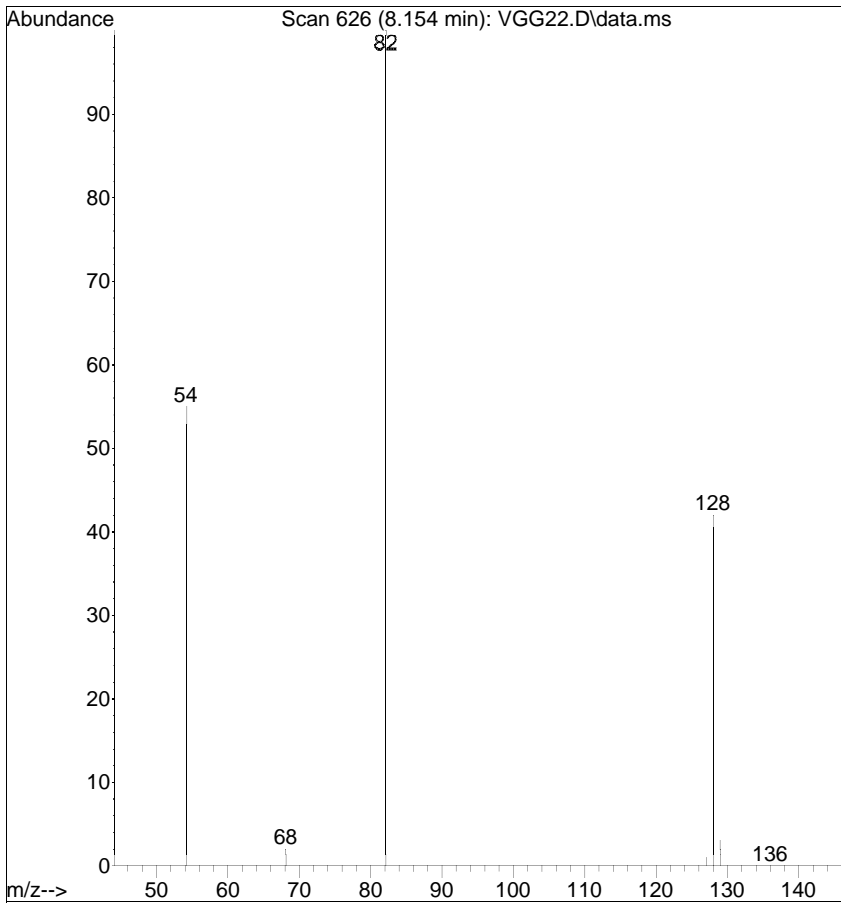
Quant Time: Jul 16 21:51:19 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.460	152	21460	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.094	136	74845	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.409	164	38566	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.364	188	89730	1.0000	ug/mL	-0.01
18) Chrysene-d12	16.840	240	68093	1.0000	ug/mL	-0.01
23) Perylene-d12	18.581	264	62562	1.0000	ug/mL	-0.01

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.996	88	394	0.3929	ug/mL	# 29
4) Nitrobenzene-d5	8.154	82	25491	0.8241	ug/mL	# 76
5) Naphthalene	9.122	128	5105	0.0685	ug/mL	96
6) 2-Methylnaphthalene	10.030	142	930	0.0162	ug/mL	97
7) 1-Methylnaphthalene	10.161	142	1018	0.0193	ug/mL	99
9) 2-Fluorobiphenyl	10.507	172	37742	0.6553	ug/mL	98
10) Acenaphthylene	11.213	152	355	0.0059	ug/mL	# 1
11) Acenaphthene	11.409	154	145	0.0038	ug/mL	# 62
12) Fluorene	12.130	166	276	0.0062	ug/mL	# 66
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.400	178	1254	0.0148	ug/mL	74
16) Anthracene	13.465	178	189	0.0023	ug/mL	# 1
17) Fluoranthene	14.970	202	464	0.0047	ug/mL	# 18
19) Pyrene	15.271	202	485	0.0053	ug/mL	# 43
20) Terphenyl-d14	15.457	244	23831	0.3103	ug/mL	88
21) Benzo(a)anthracene	16.840	228	268	0.0033	ug/mL	# 35
22) Chrysene	16.875	228	121	0.0016	ug/mL	# 33
24) Benzo(b)fluoranthene	18.147	252	141	0.0019	ug/mL	# 1
25) Benzo(k)fluoranthene	18.147	252	141	0.0017	ug/mL	# 1
26) Benzo(a)pyrene	18.518	252	100	0.0015	ug/mL	# 1
27) Indeno(1,2,3-cd)pyrene	19.847	276	154	0.0021	ug/mL	# 1
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
29) Benzo(g,h,i)perylene	20.217	276	237	0.0039	ug/mL	# 21

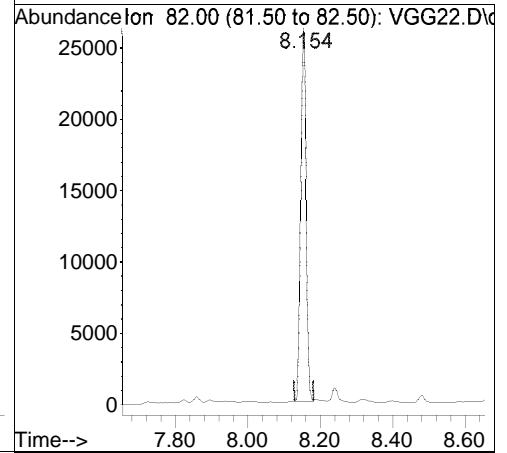
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

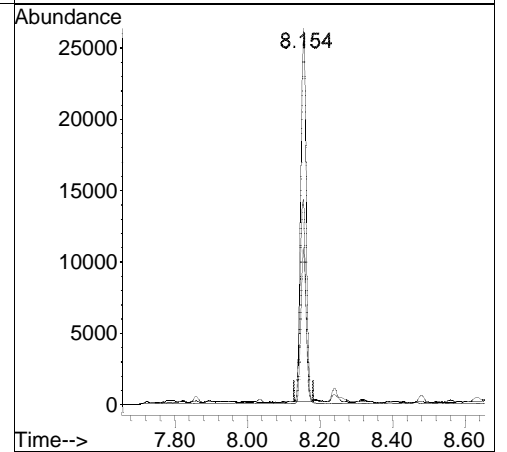
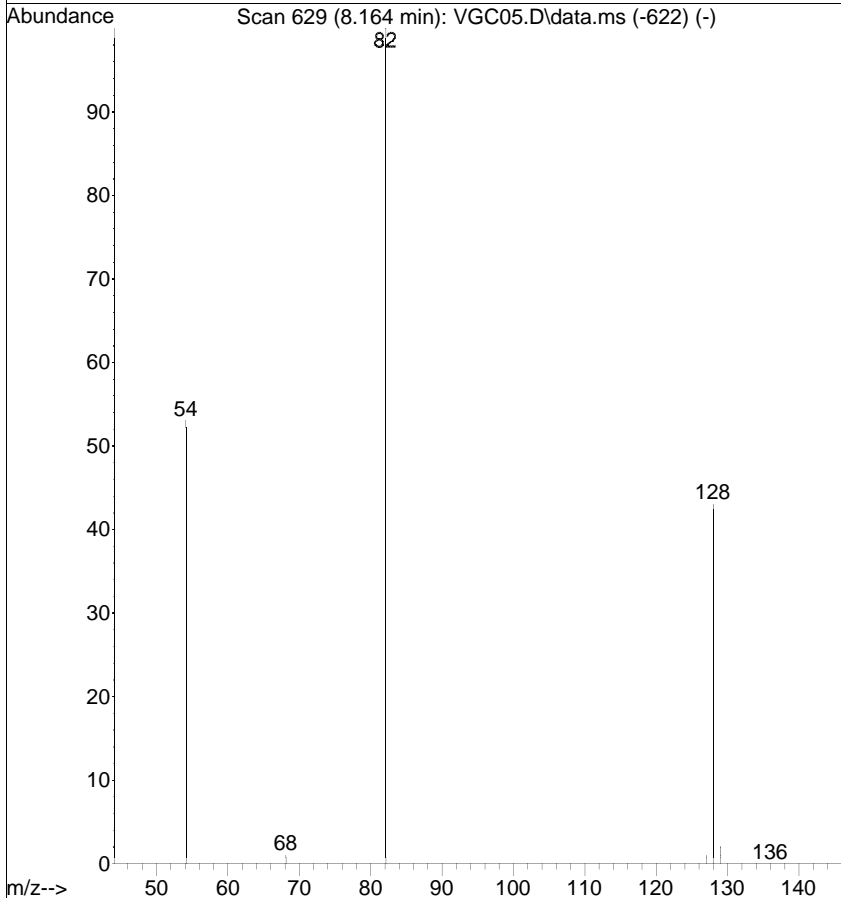


#4
 Nitrobenzene-d5
 Concen: 0.8241 ug/mL
 RT: 8.154 min Scan# 626
 Delta R.T. -0.007 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

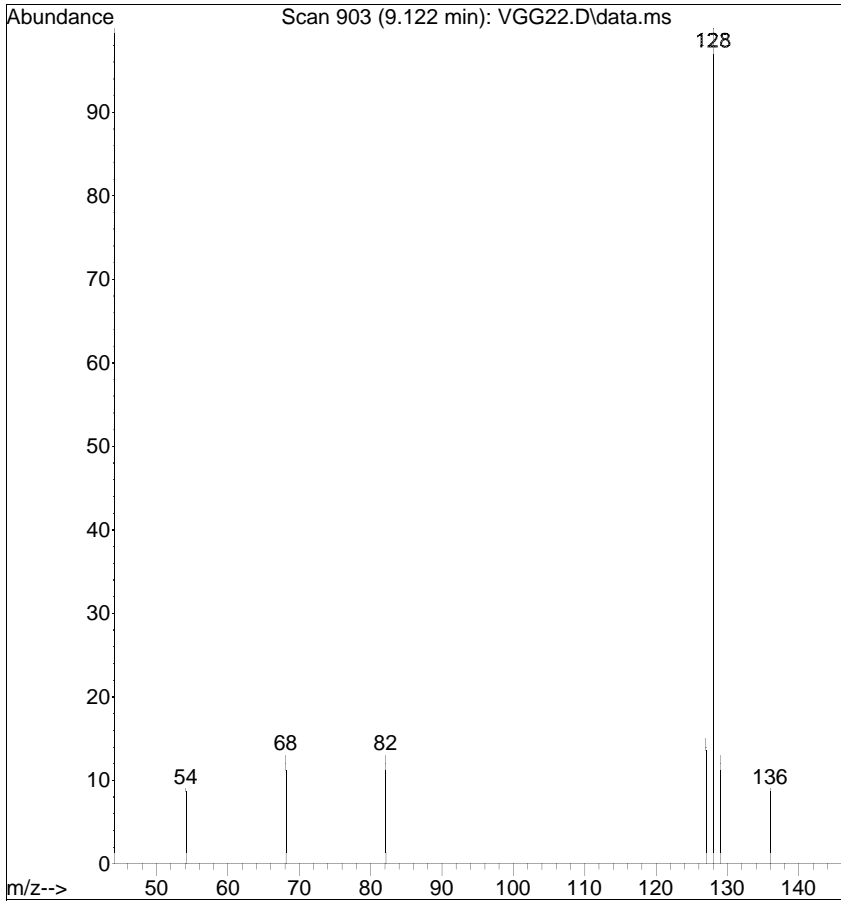
Tgt Ion	Resp	Lower	Upper
82	25491		
128	41.7	10.5	50.5
54	54.6	56.2	96.2#



Ref

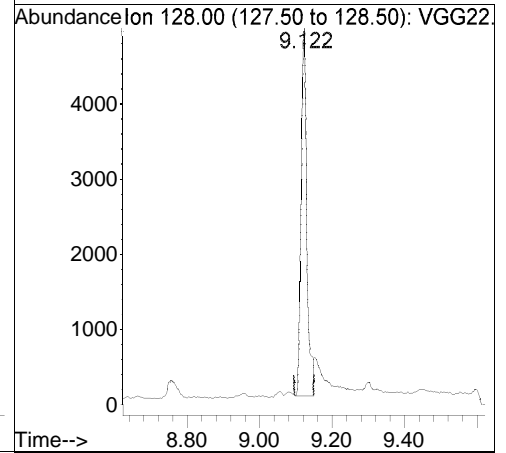


Raw

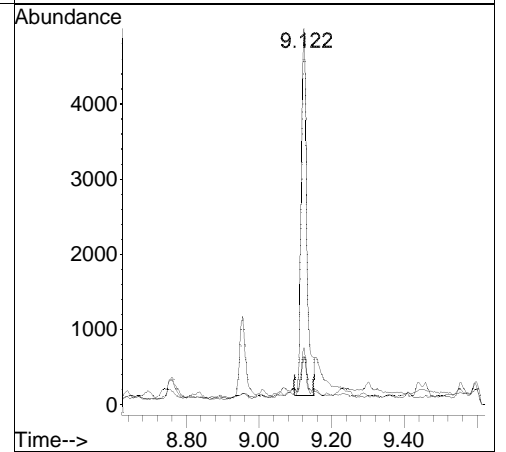
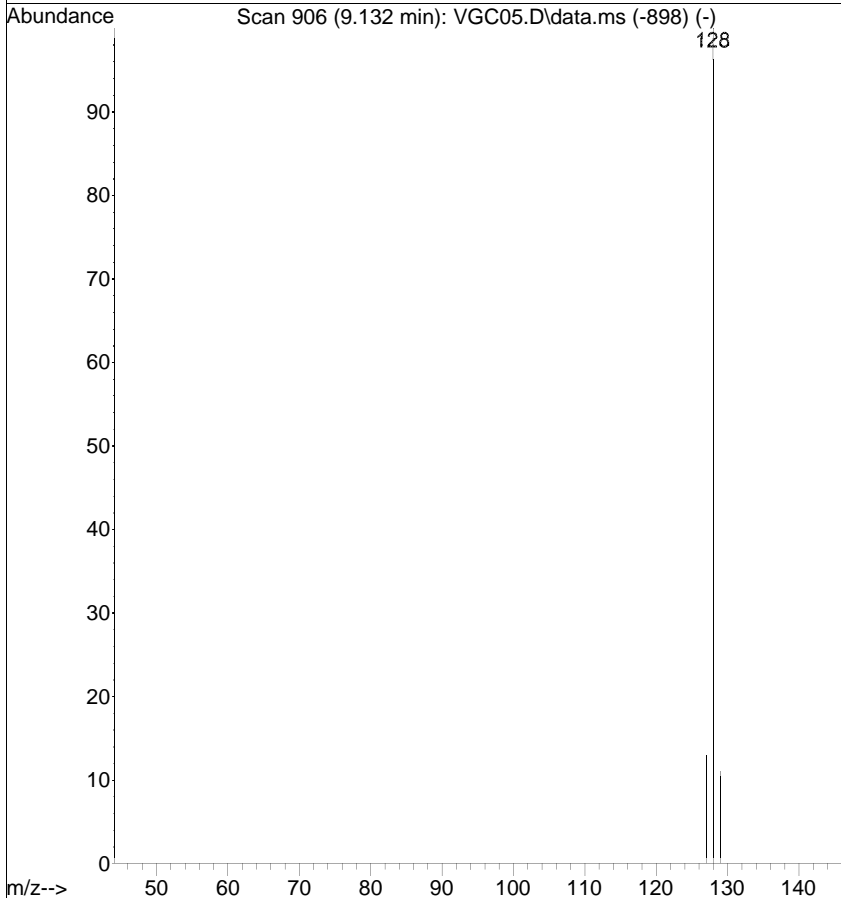


#5
 Naphthalene
 Concen: 0.0685 ug/mL
 RT: 9.122 min Scan# 903
 Delta R.T. -0.007 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

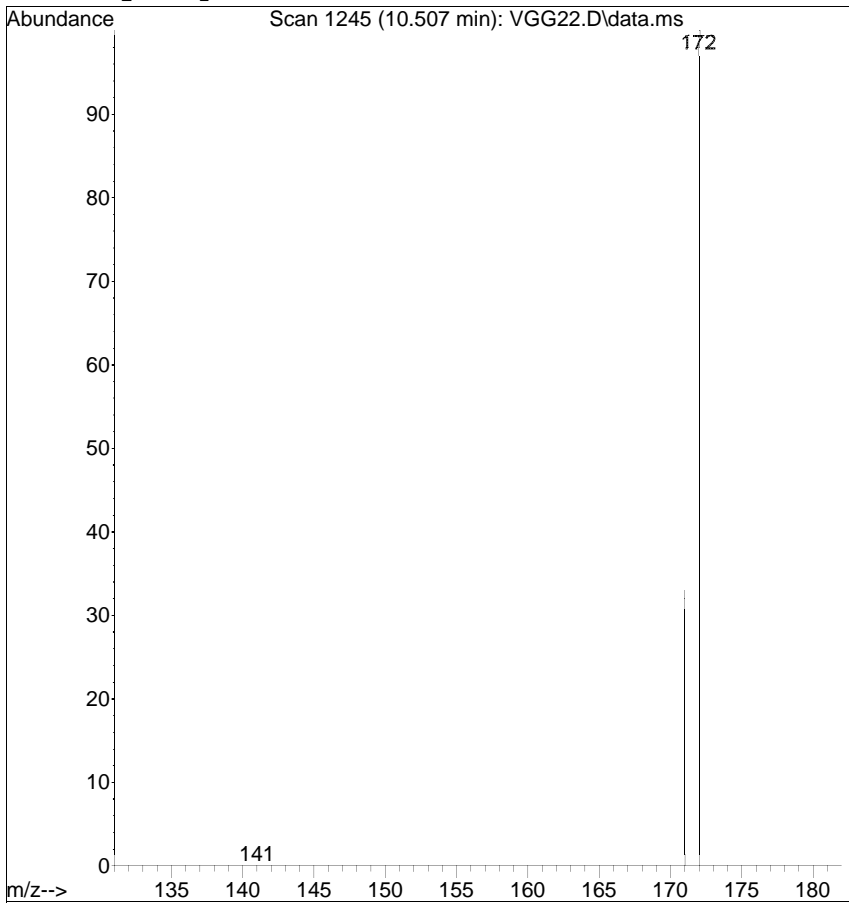
Tgt Ion	Resp	Lower	Upper
128	5105		
129	13.1	0.0	31.1
127	15.2	0.0	34.0



Ref

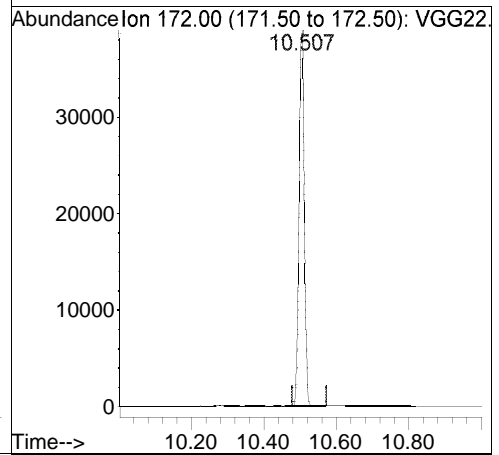


Raw

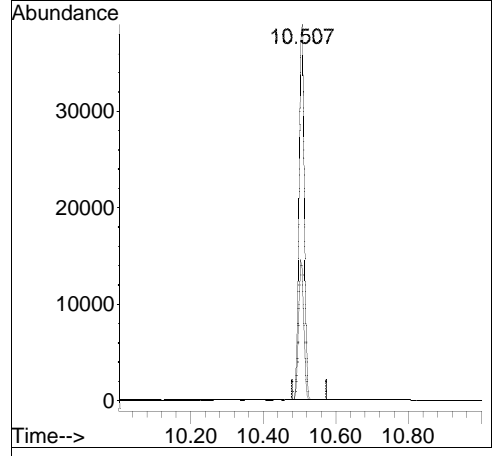
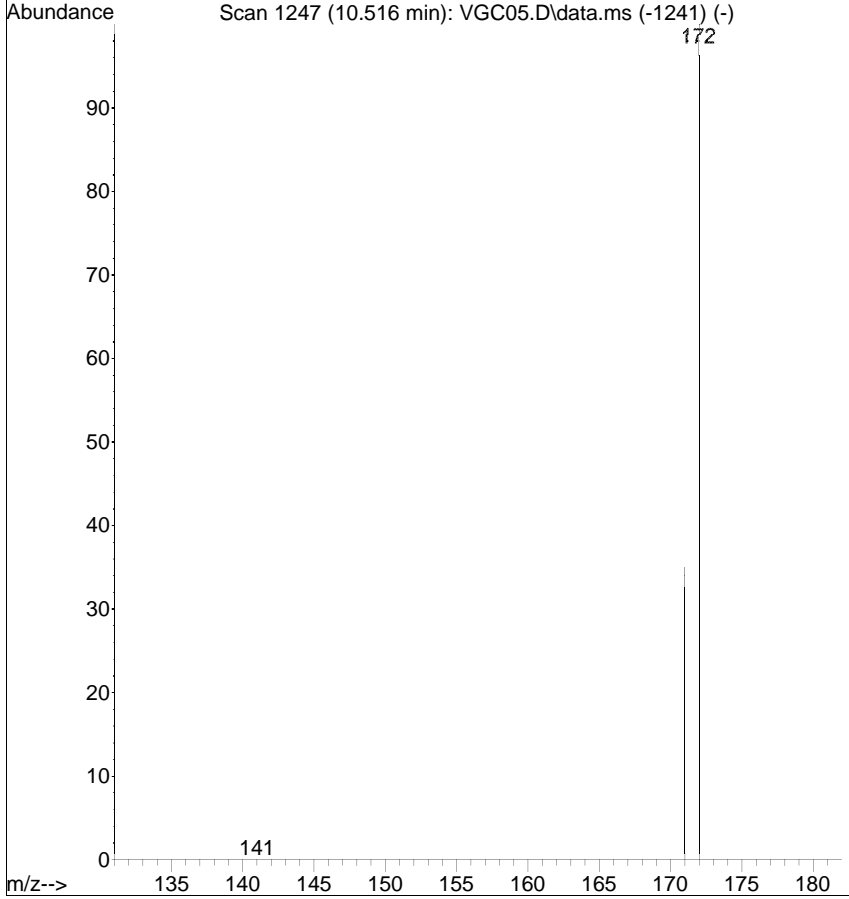


#9
2-Fluorobiphenyl
Concen: 0.6553 ug/mL
RT: 10.507 min Scan# 1245
Delta R.T. -0.004 min
Lab File: VGG22.D
Acq: 16 Jul 2018 9:28 pm

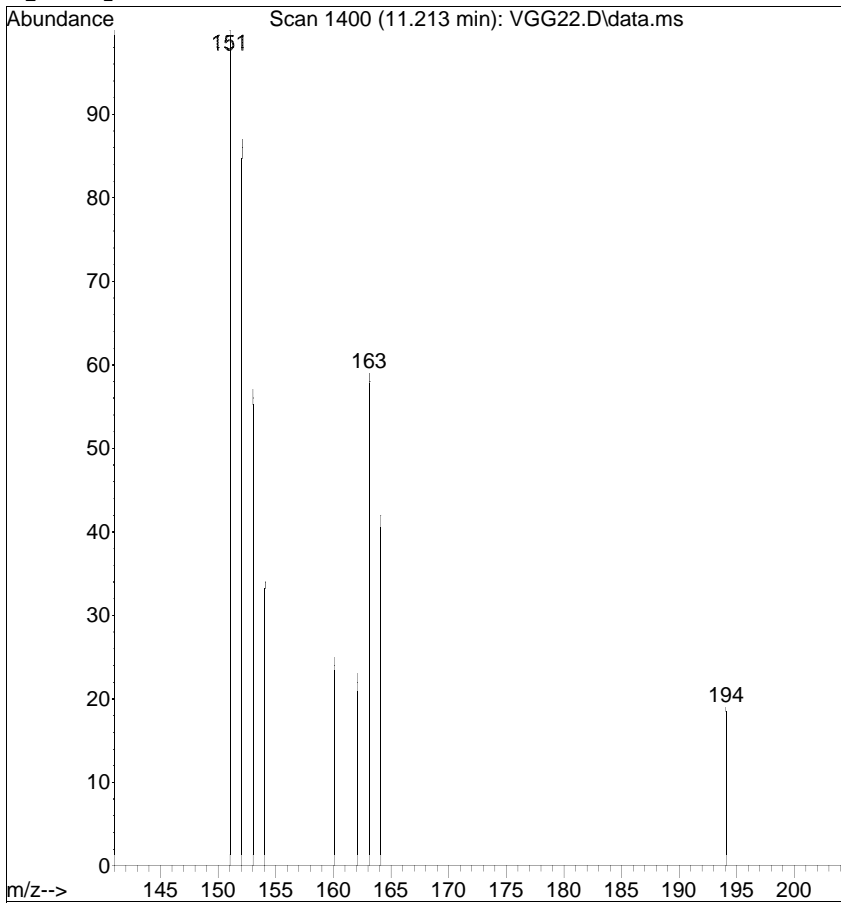
Tgt Ion	Resp	Lower	Upper
172	37742	100	100
171	33.5	14.4	54.4



Ref

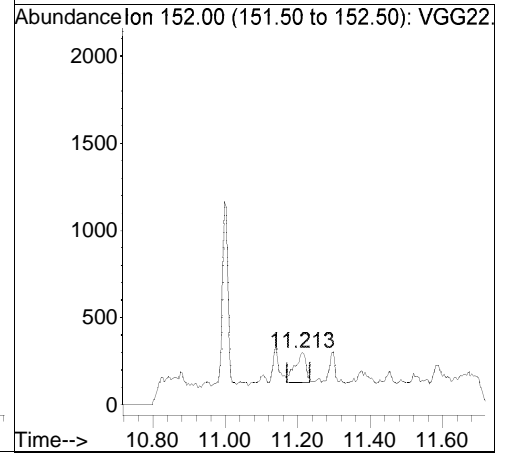


Raw

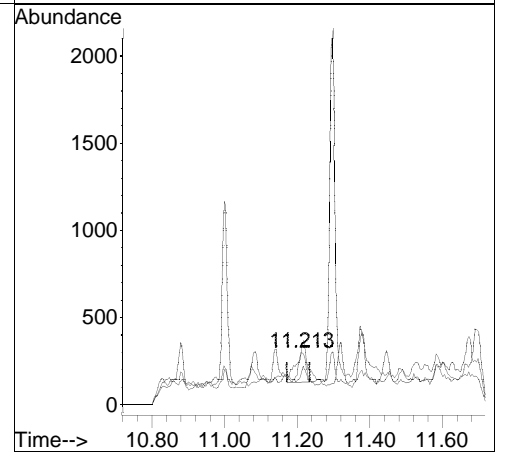
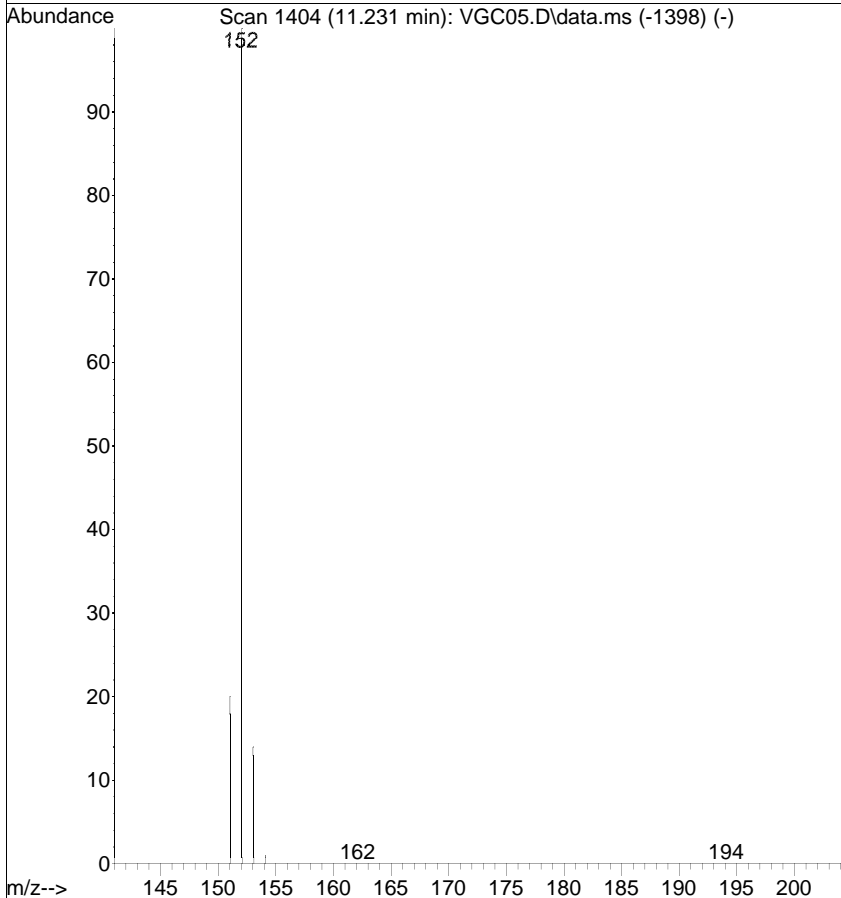


#10
 Acenaphthylene
 Concen: 0.0059 ug/mL
 RT: 11.213 min Scan# 1400
 Delta R.T. -0.014 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

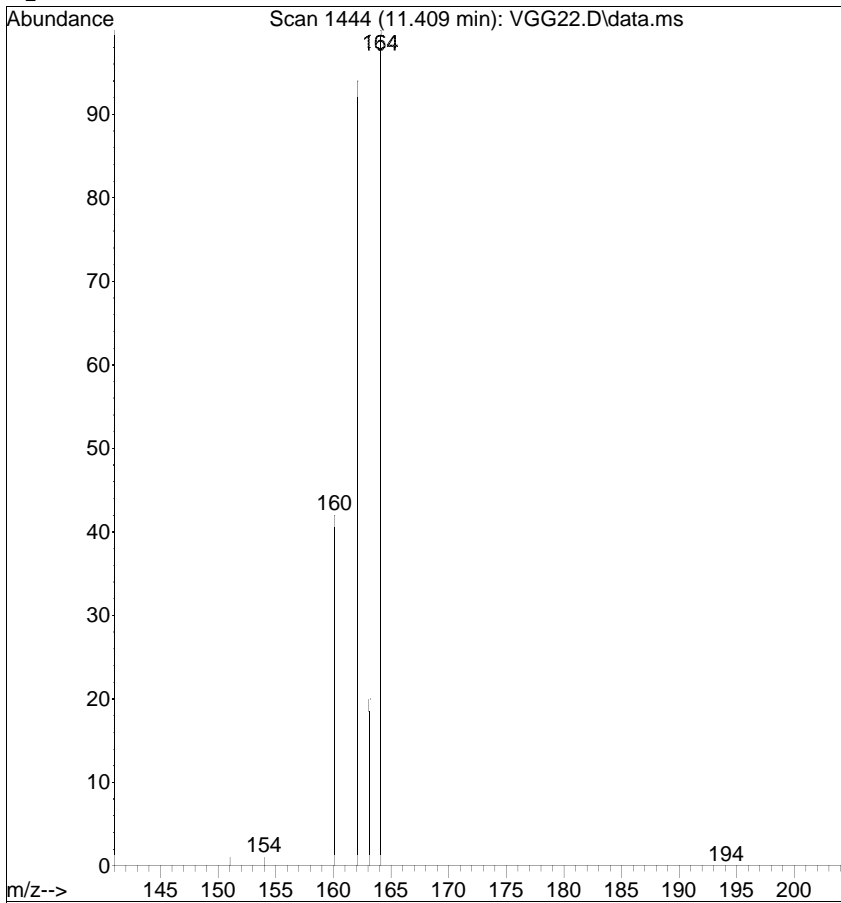
Tgt Ion	Resp	Lower	Upper
152	355		
152	100		
151	115.2	1.0	41.0#
153	65.7	0.0	33.1#



Ref

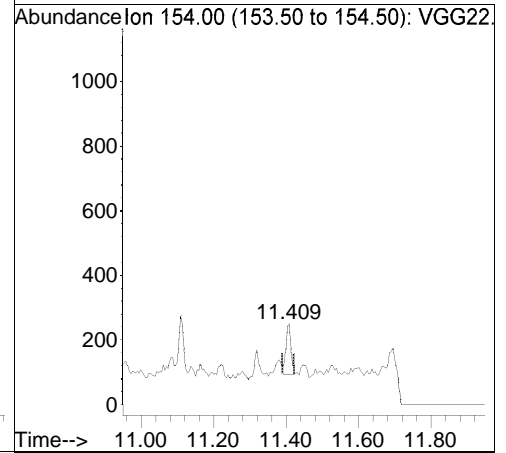


Raw

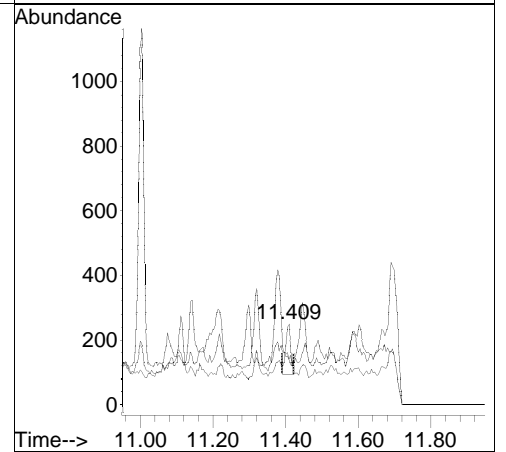
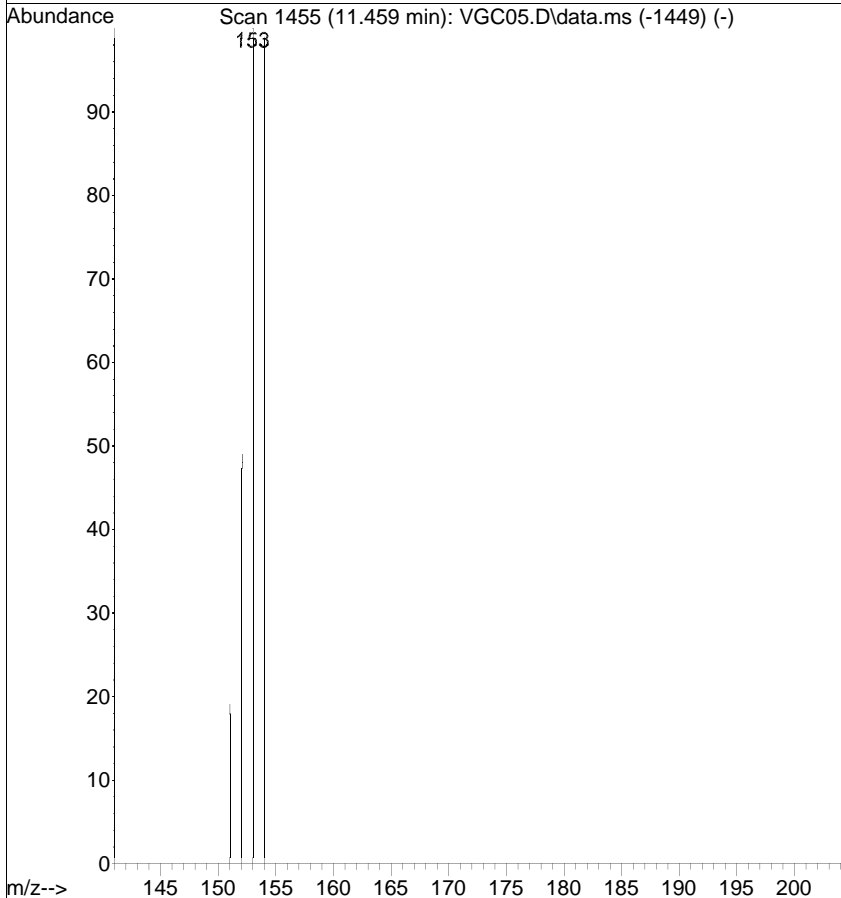


#11
 Acenaphthene
 Concen: 0.0038 ug/mL
 RT: 11.409 min Scan# 1444
 Delta R.T. -0.050 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

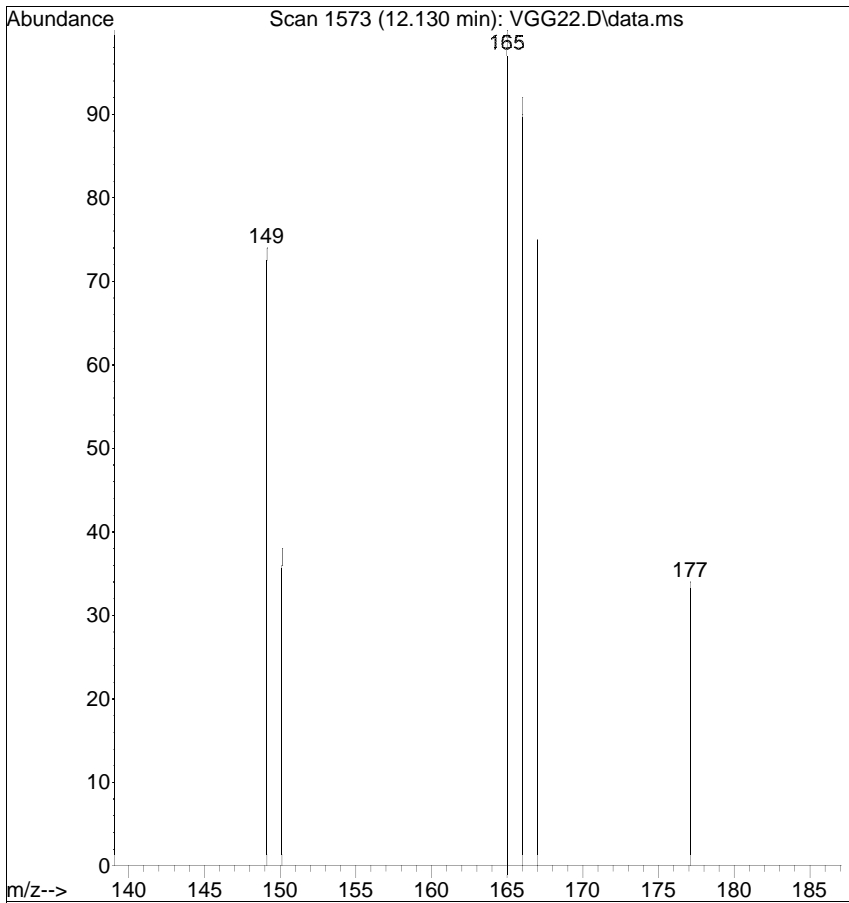
Tgt Ion	Resp	Lower	Upper
154	100		
152	55.8	35.4	75.4
153	56.2	96.8	136.8#



Ref

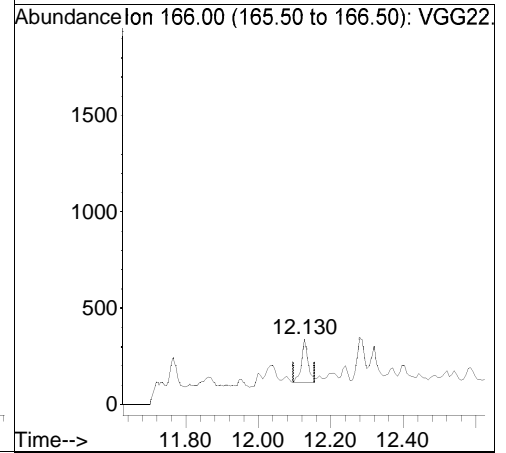


Raw

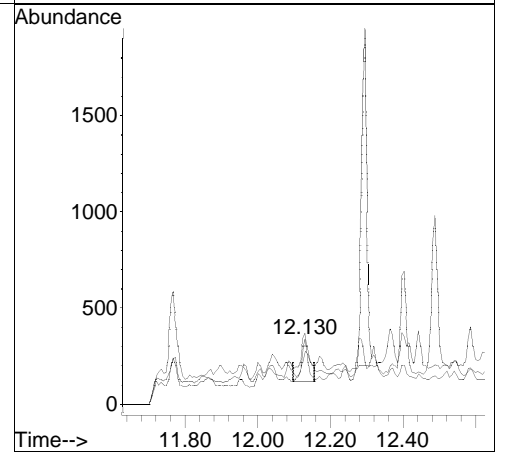
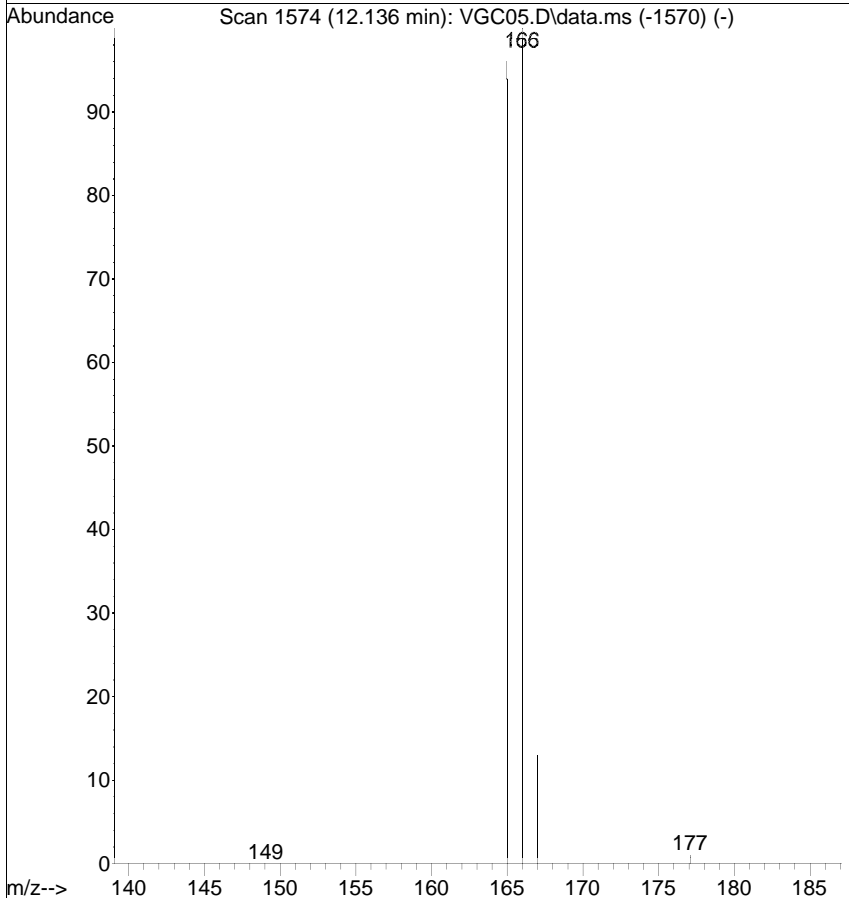


#12
 Fluorene
 Concen: 0.0062 ug/mL
 RT: 12.130 min Scan# 1573
 Delta R.T. -0.006 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

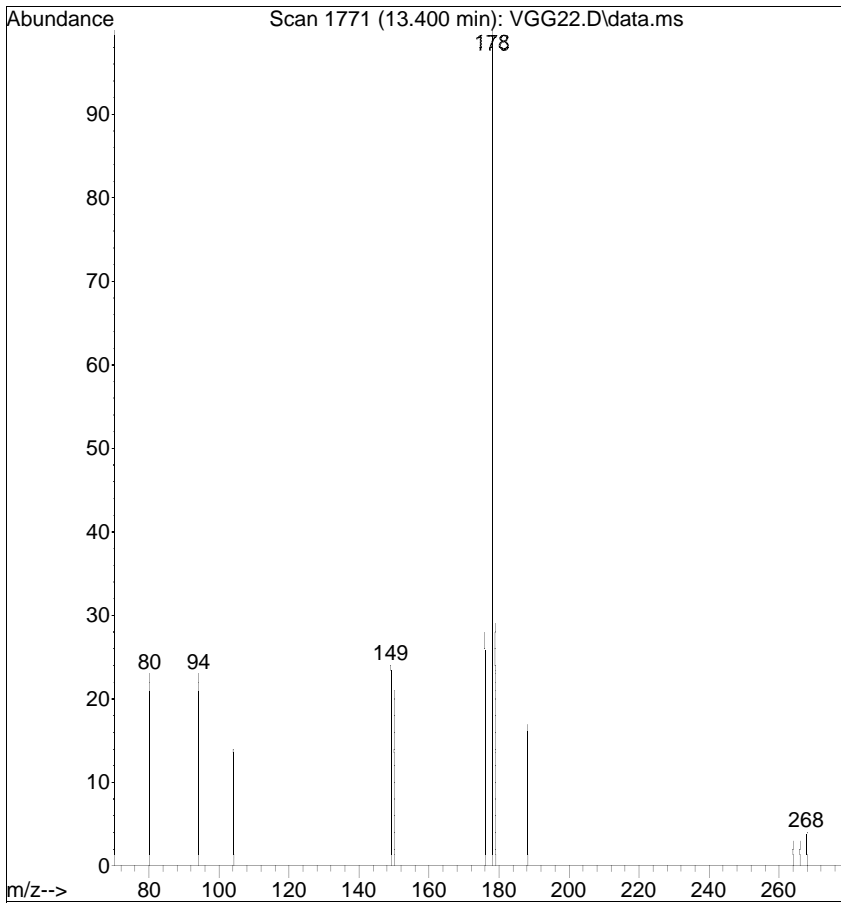
Tgt Ion	Resp	Lower	Upper
166	100		
165	109.1	74.9	114.9
167	81.4	0.0	33.9#



Ref



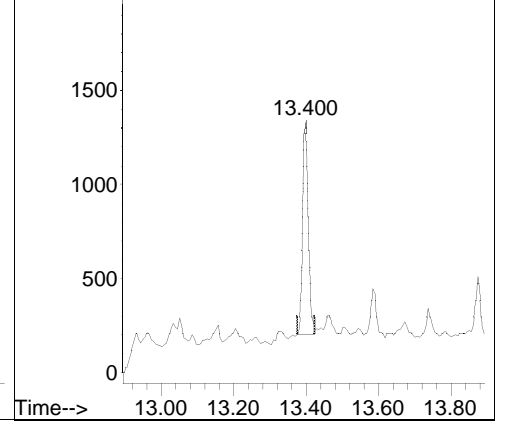
Raw



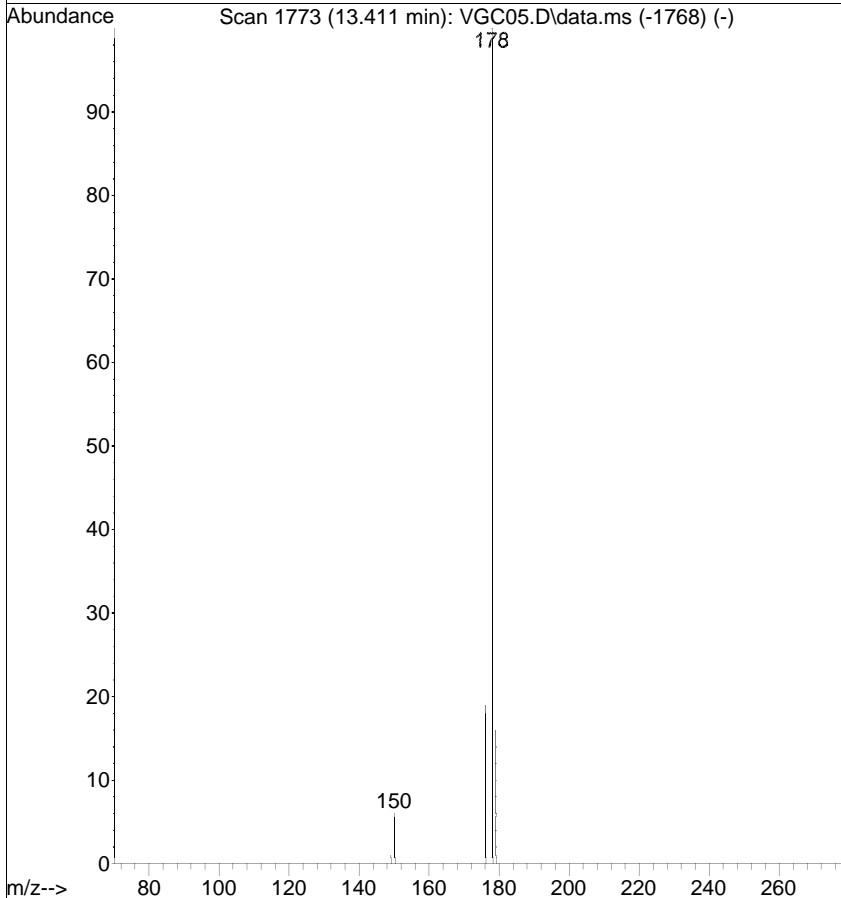
#15
 Phenanthrene
 Concen: 0.0148 ug/mL
 RT: 13.400 min Scan# 1771
 Delta R.T. -0.006 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

Tgt Ion	Resp	Lower	Upper
178	1254		
179	28.9	0.0	35.0
176	28.3	0.0	38.9

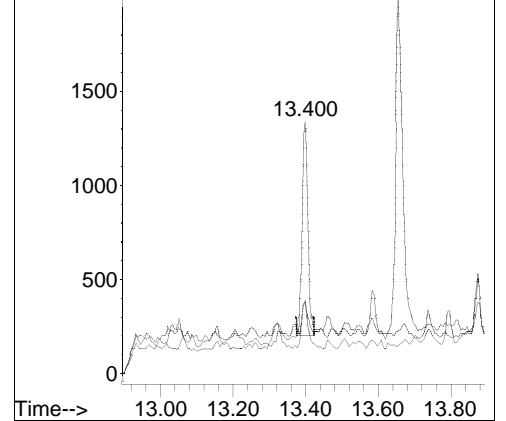
Abundance Ion 178.00 (177.50 to 178.50): VGG22



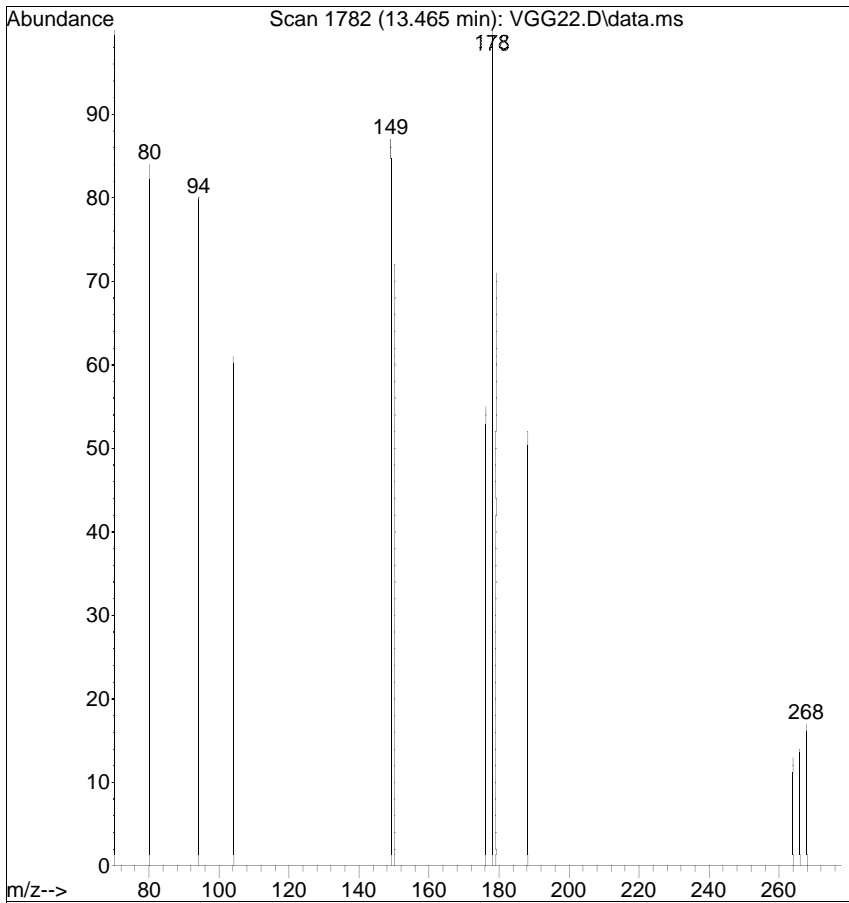
Ref



Abundance



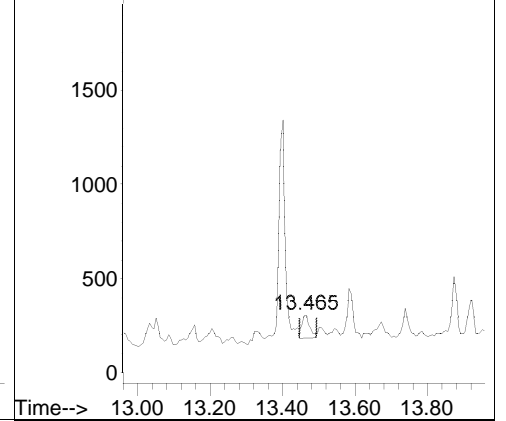
Raw



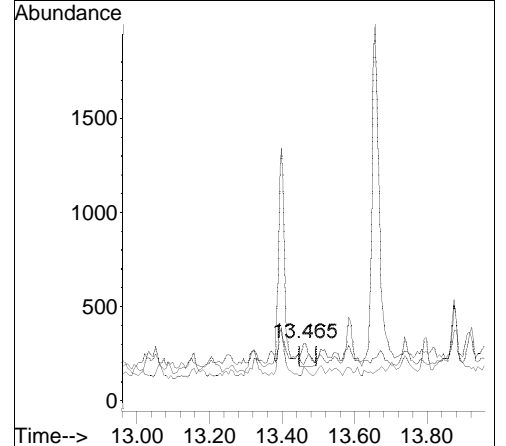
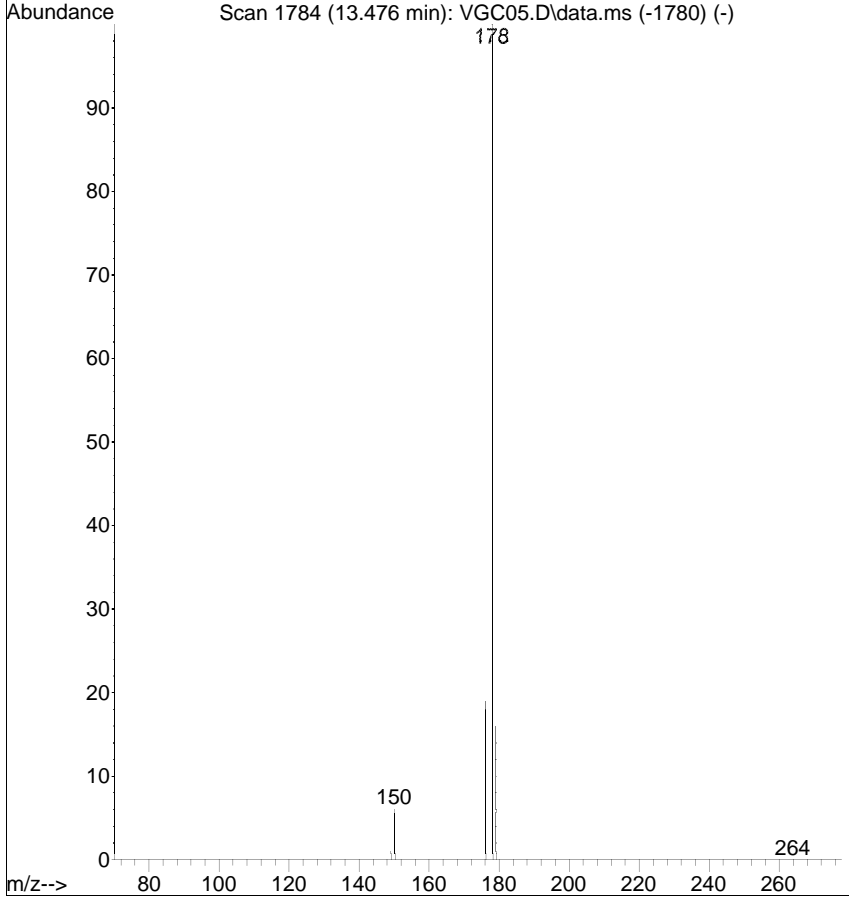
#16
 Anthracene
 Concen: 0.0023 ug/mL
 RT: 13.465 min Scan# 1782
 Delta R.T. -0.006 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

Tgt Ion	Resp	Lower	Upper
178	100		
179	70.9	0.0	34.4#
176	55.2	0.0	39.5#

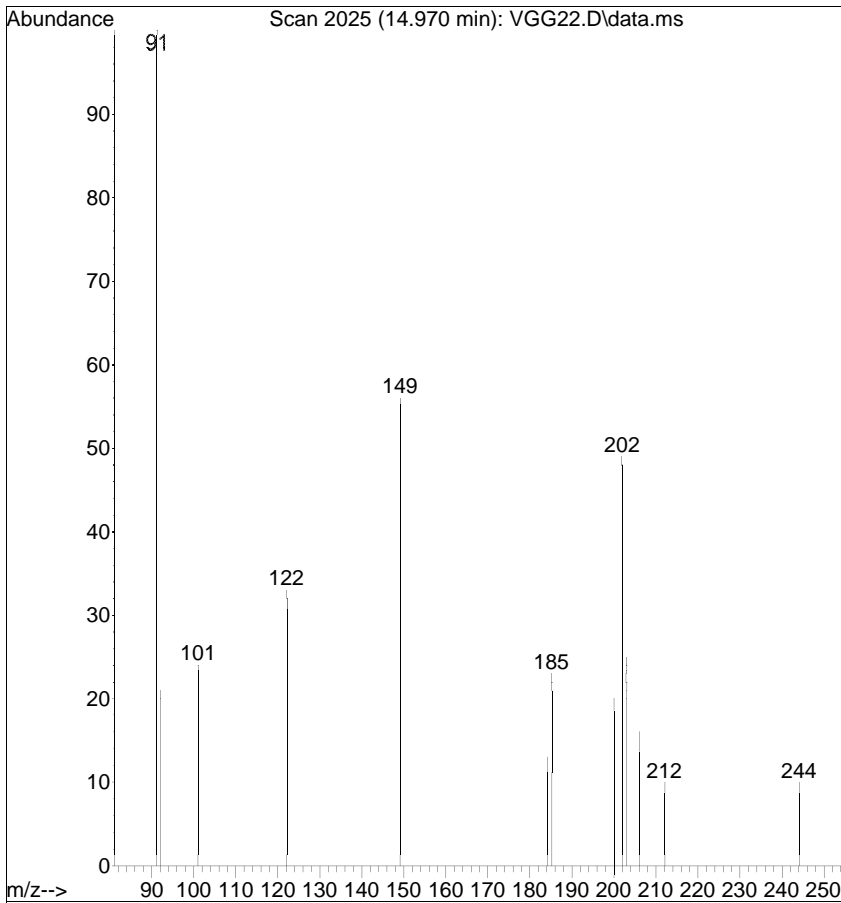
Abundance Ion 178.00 (177.50 to 178.50): VGG22



Ref

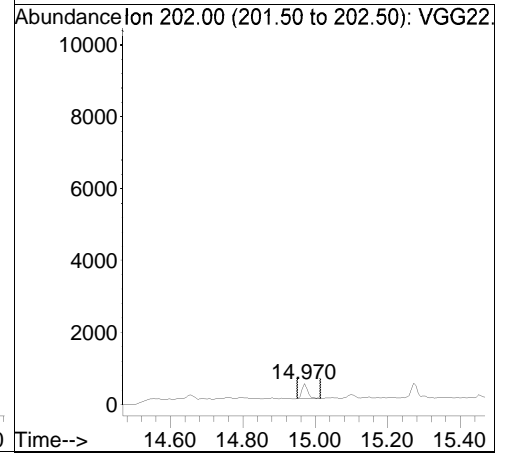


Raw

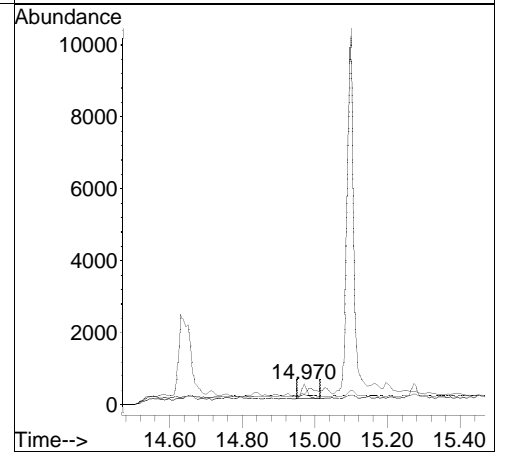
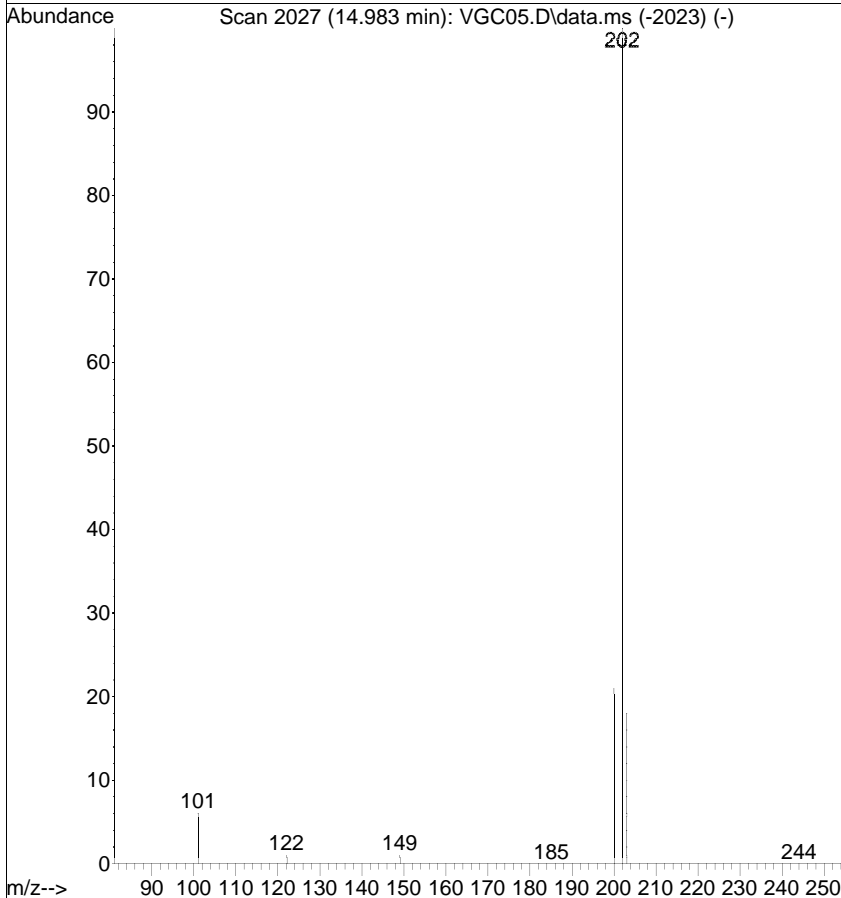


#17
 Fluoranthene
 Concen: 0.0047 ug/mL
 RT: 14.970 min Scan# 2025
 Delta R.T. -0.012 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

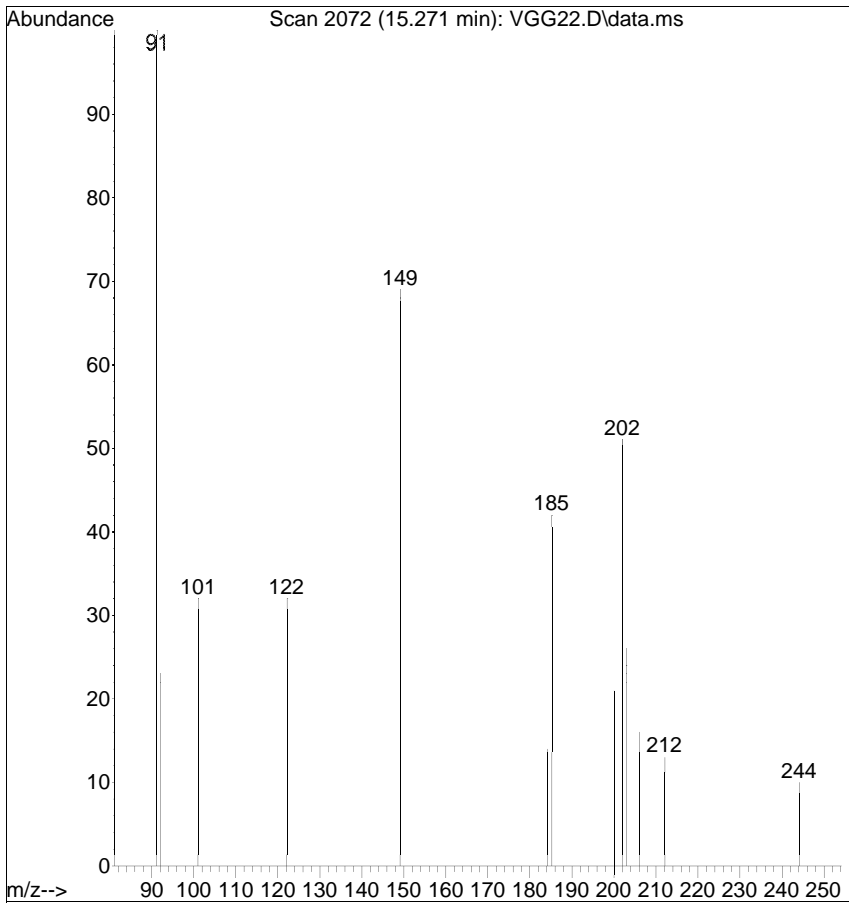
Tgt Ion	Resp	Lower	Upper
202	464		
101	49.7	0.0	21.1#
203	51.5	0.0	37.0#



Ref

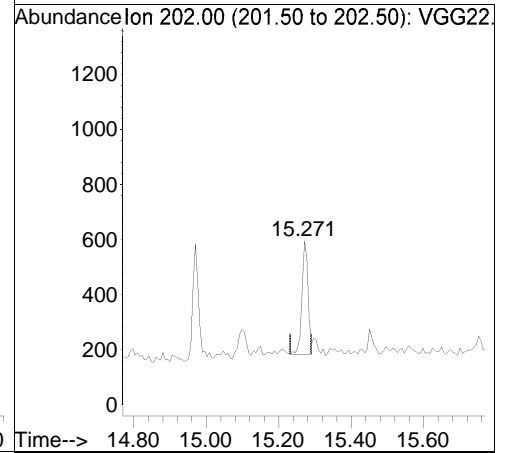


Raw

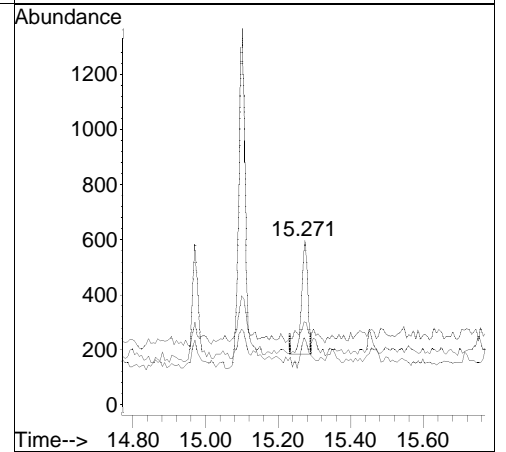
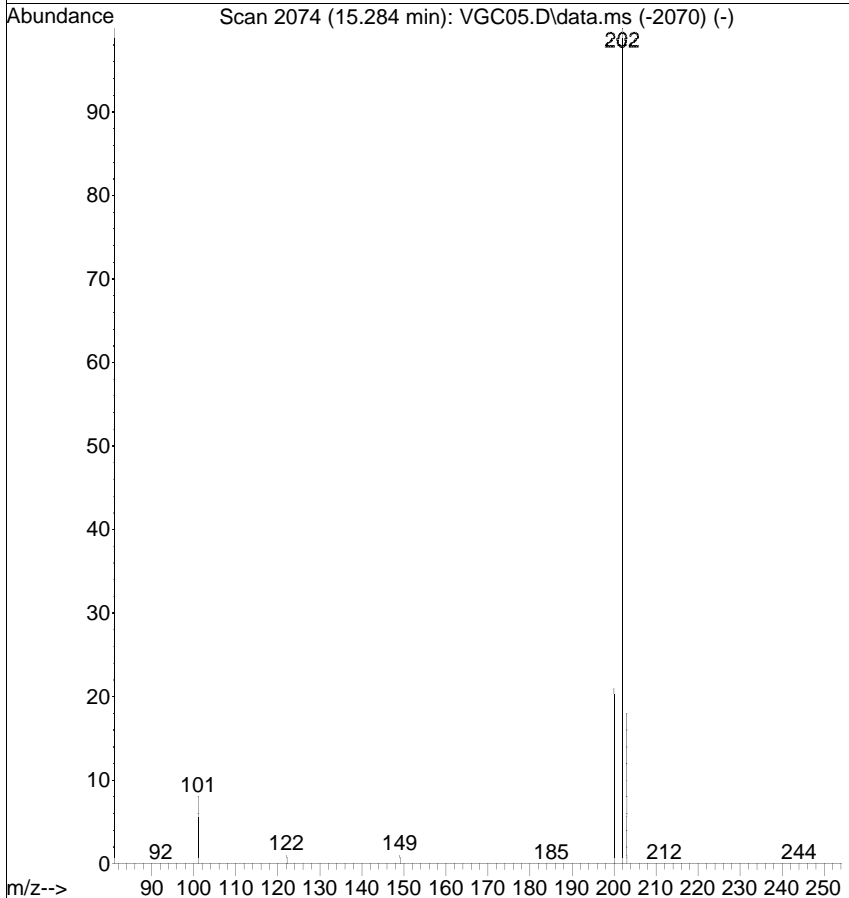


#19
 Pyrene
 Concen: 0.0053 ug/mL
 RT: 15.271 min Scan# 2072
 Delta R.T. -0.012 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

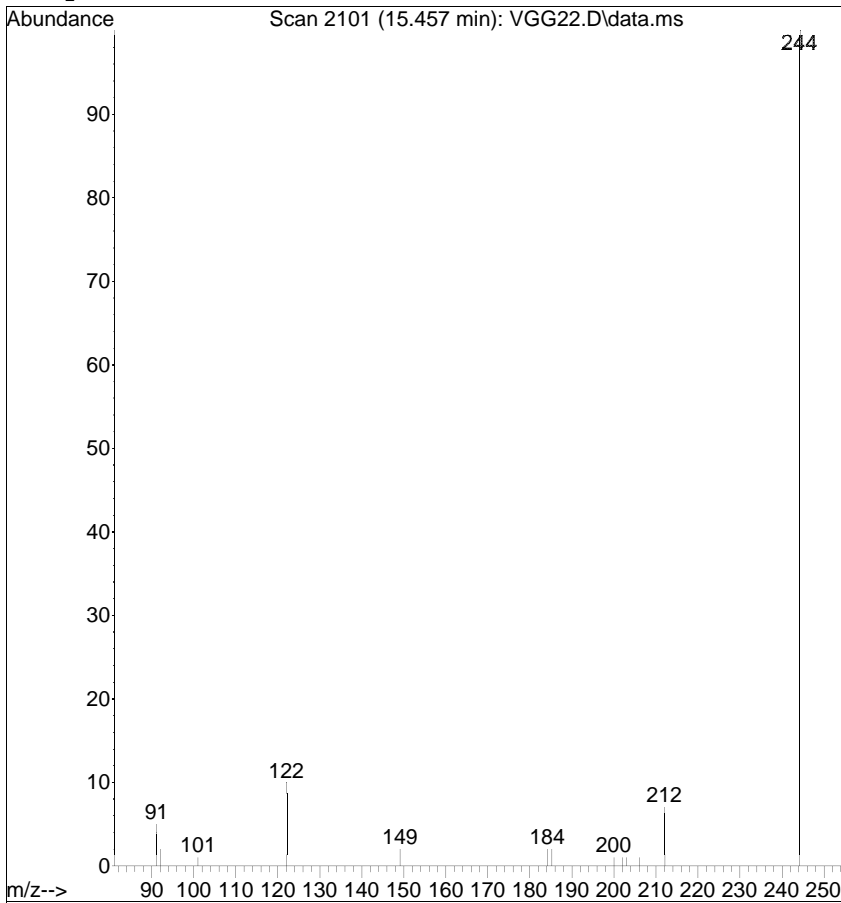
Tgt Ion	Ratio	Lower	Upper	Resp
202	100			485
200	41.0	1.1	41.1	
203	50.6	0.0	37.7#	



Ref

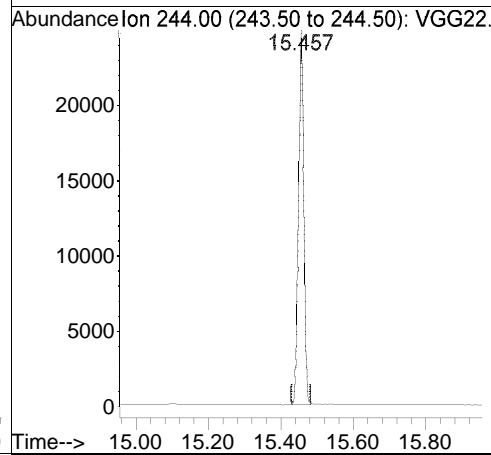


Raw

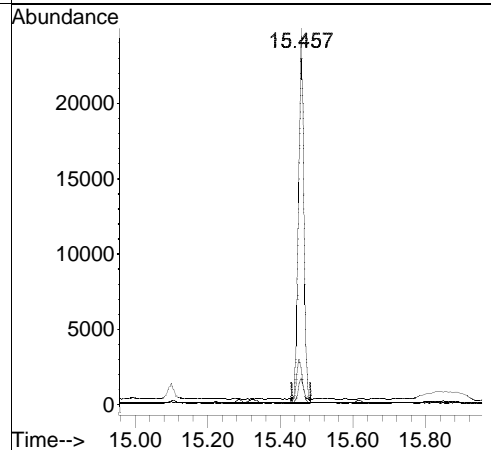
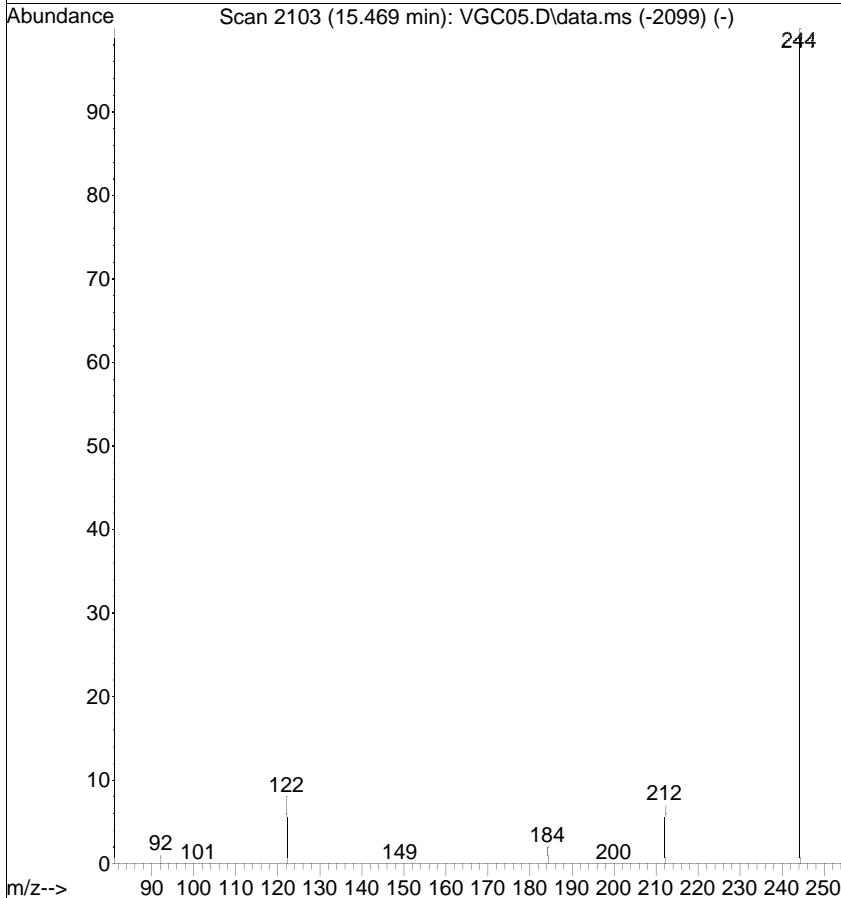


#20
 Terphenyl-d14
 Concen: 0.3103 ug/mL
 RT: 15.457 min Scan# 2101
 Delta R.T. -0.012 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

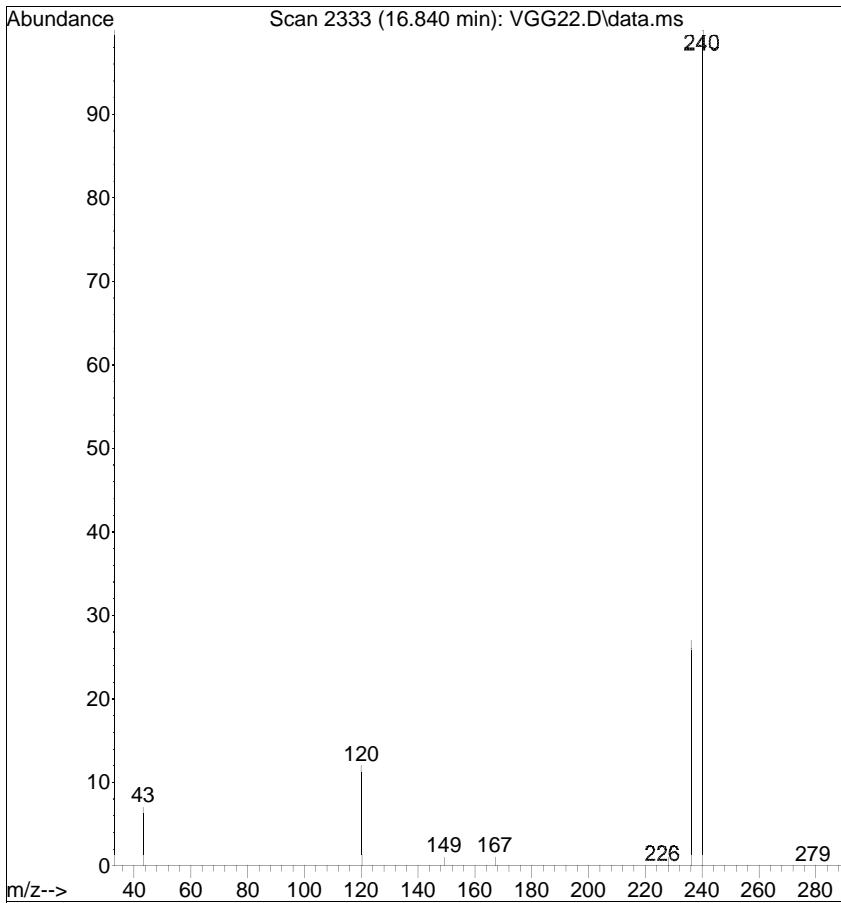
Tgt Ion	Resp	Lower	Upper
244	100		
122	9.7	0.0	25.0
212	7.2	0.0	31.4



Ref

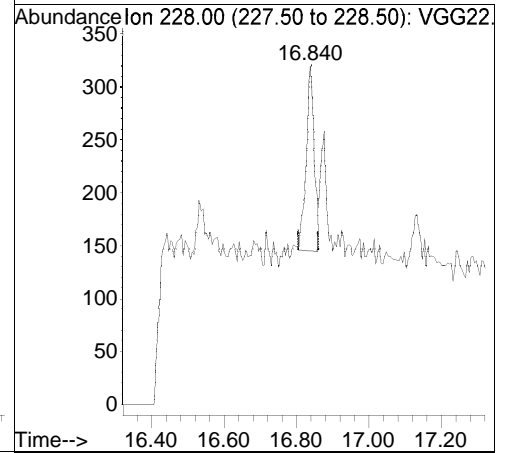


Raw

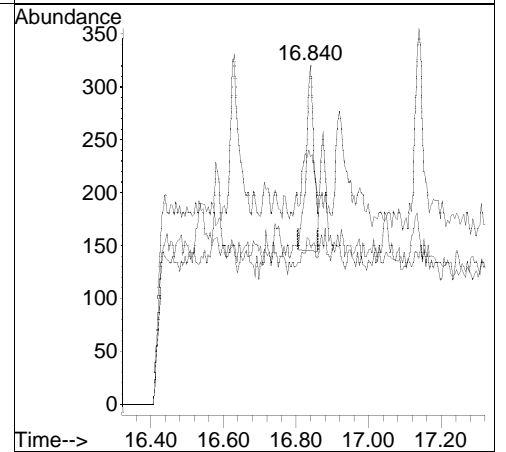
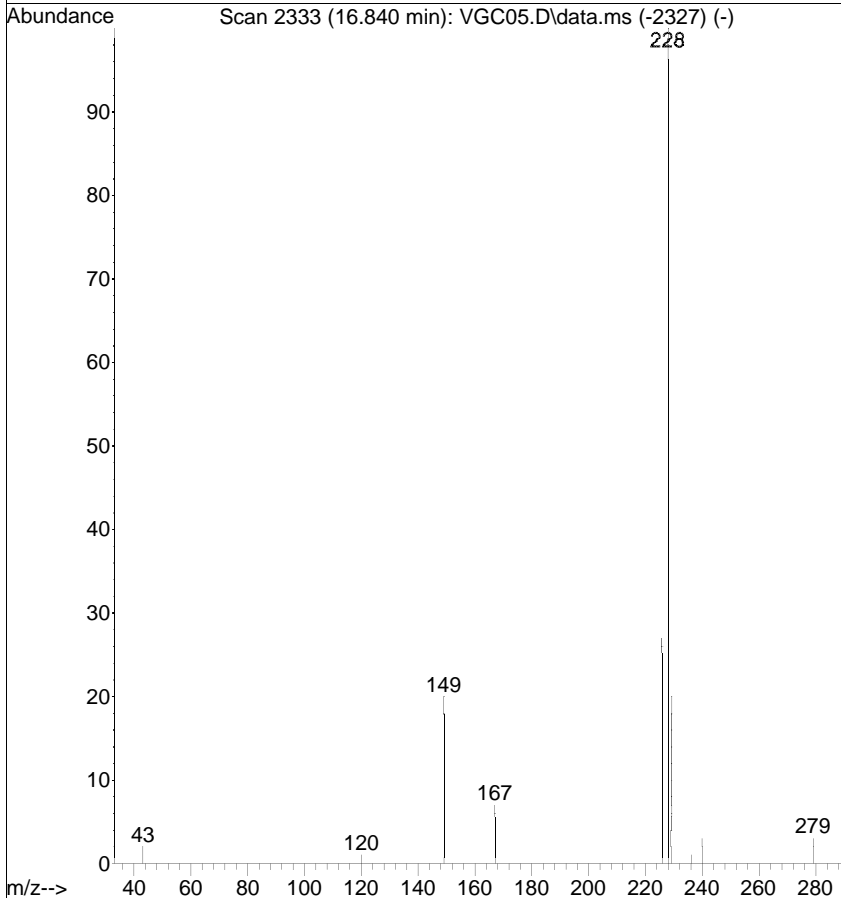


#21
 Benzo(a)anthracene
 Concen: 0.0033 ug/mL
 RT: 16.840 min Scan# 2333
 Delta R.T. 0.005 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

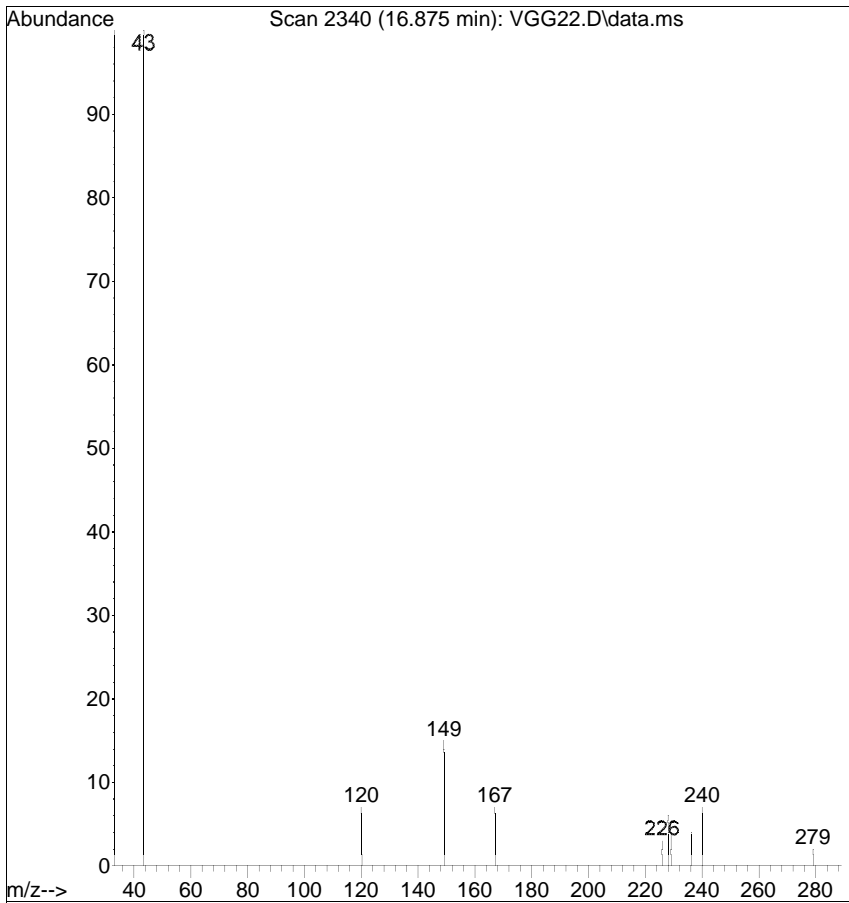
Tgt Ion	Ratio	Lower	Upper
228	100		
229	72.9	0.1	40.1#
226	45.8	9.3	49.3



Ref

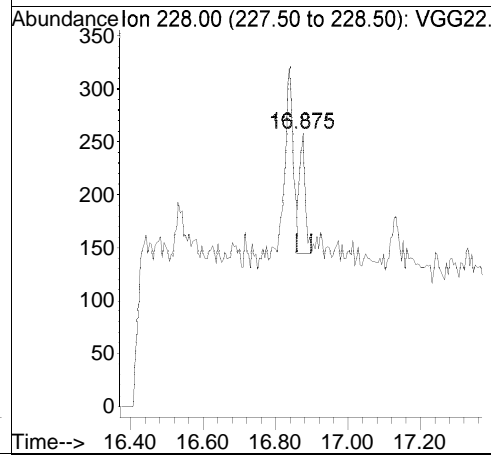


Raw

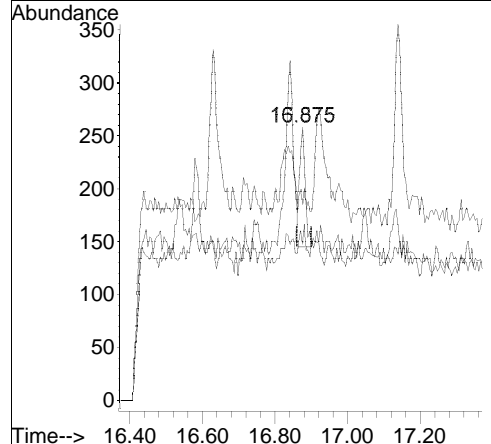
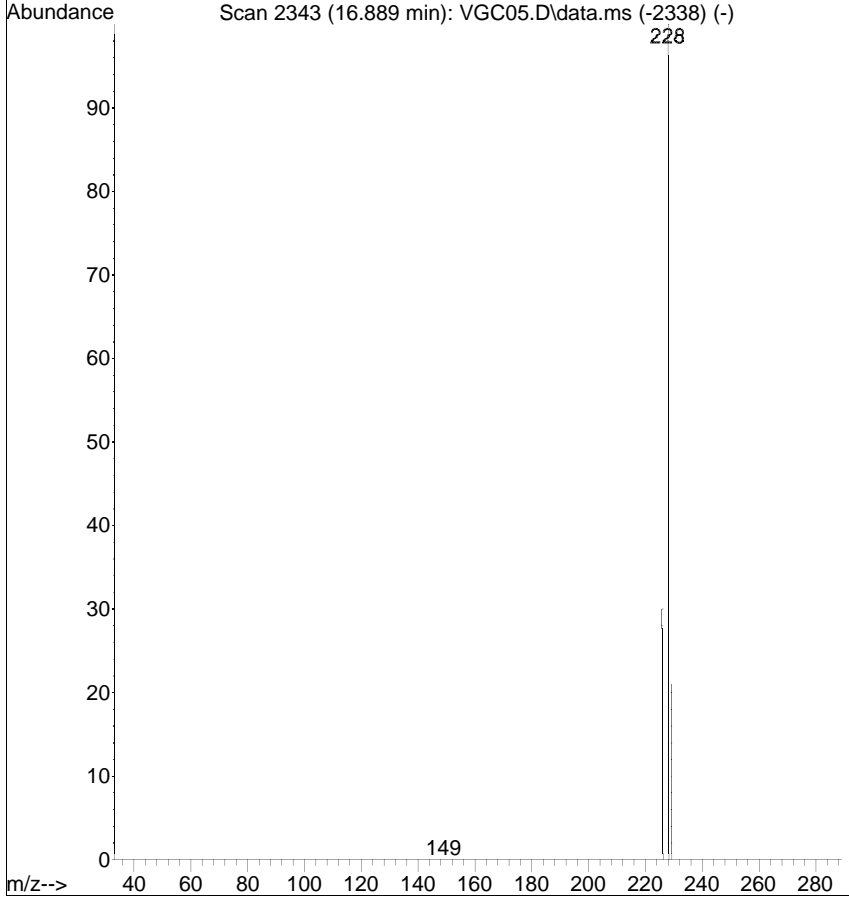


#22
 Chrysene
 Concen: 0.0016 ug/mL
 RT: 16.875 min Scan# 2340
 Delta R.T. -0.010 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

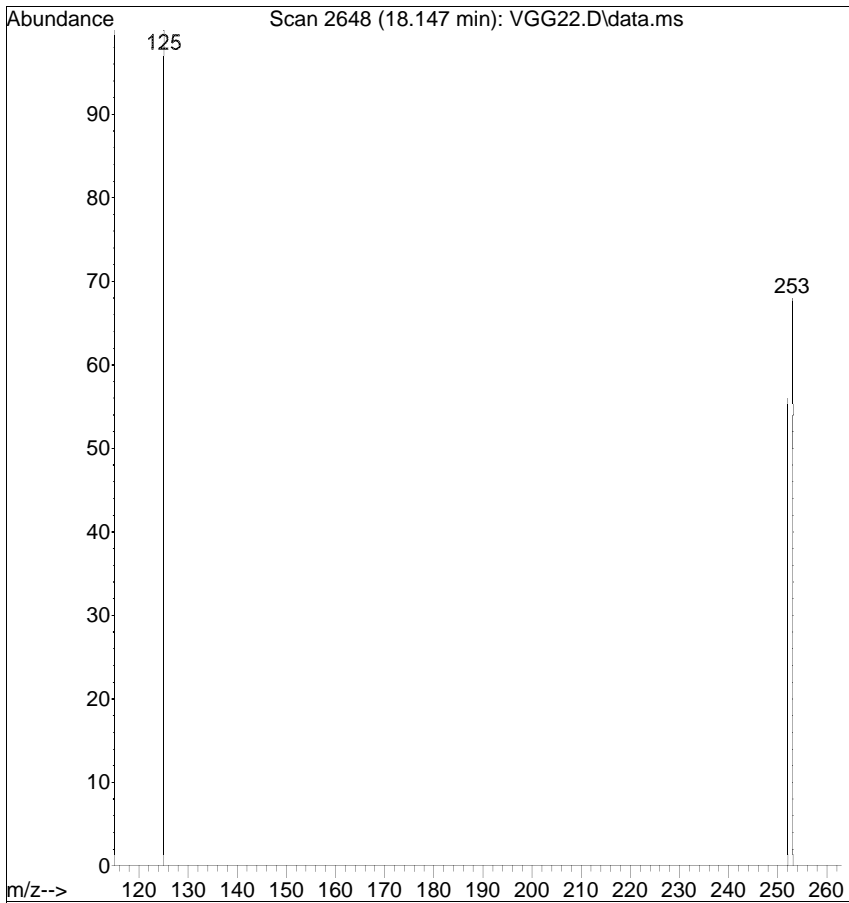
Tgt Ion	Ratio	Lower	Upper
228	100		
226	57.0	13.4	53.4#
229	71.7	0.8	40.8#



Ref



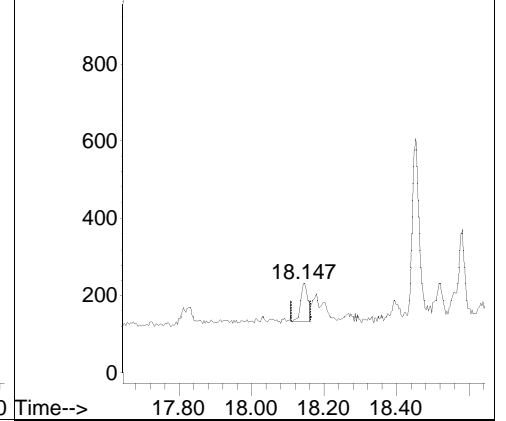
Raw



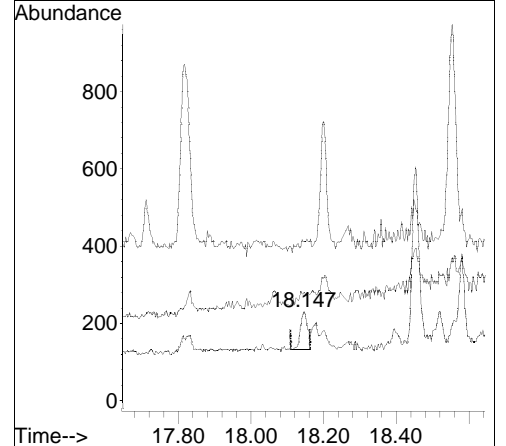
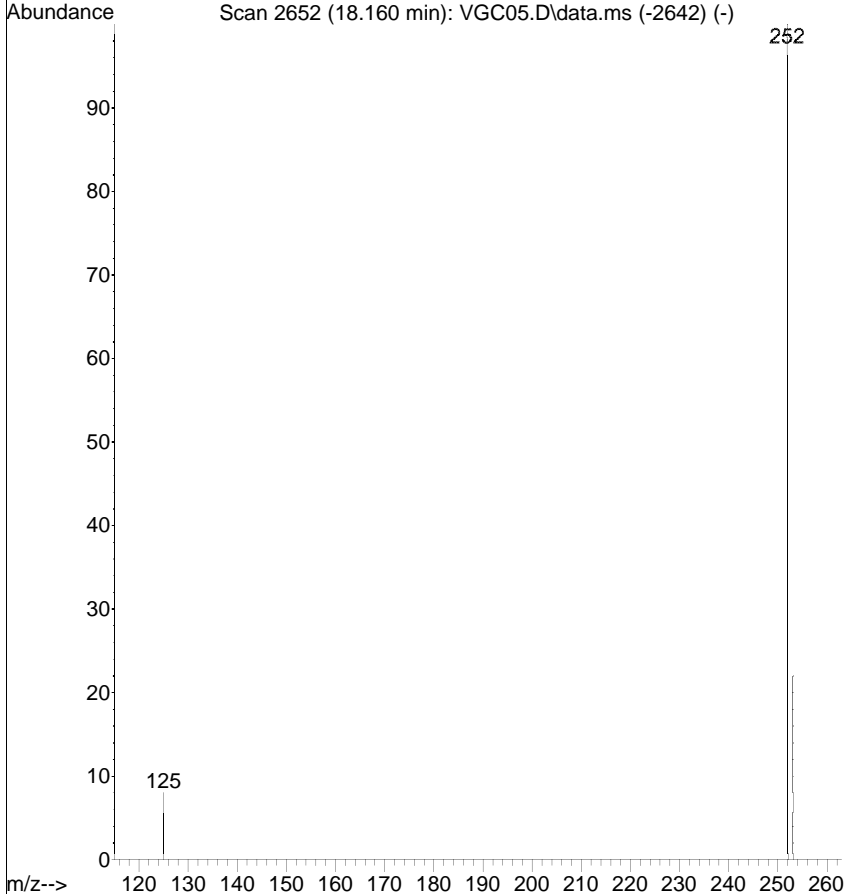
#24
 Benzo(b)fluoranthene
 Concen: 0.0019 ug/mL
 RT: 18.147 min Scan# 2648
 Delta R.T. -0.010 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

Tgt Ion	Resp	Lower	Upper
252	141		
252	100		
253	122.2	1.0	41.0#
125	178.7	0.0	20.9#

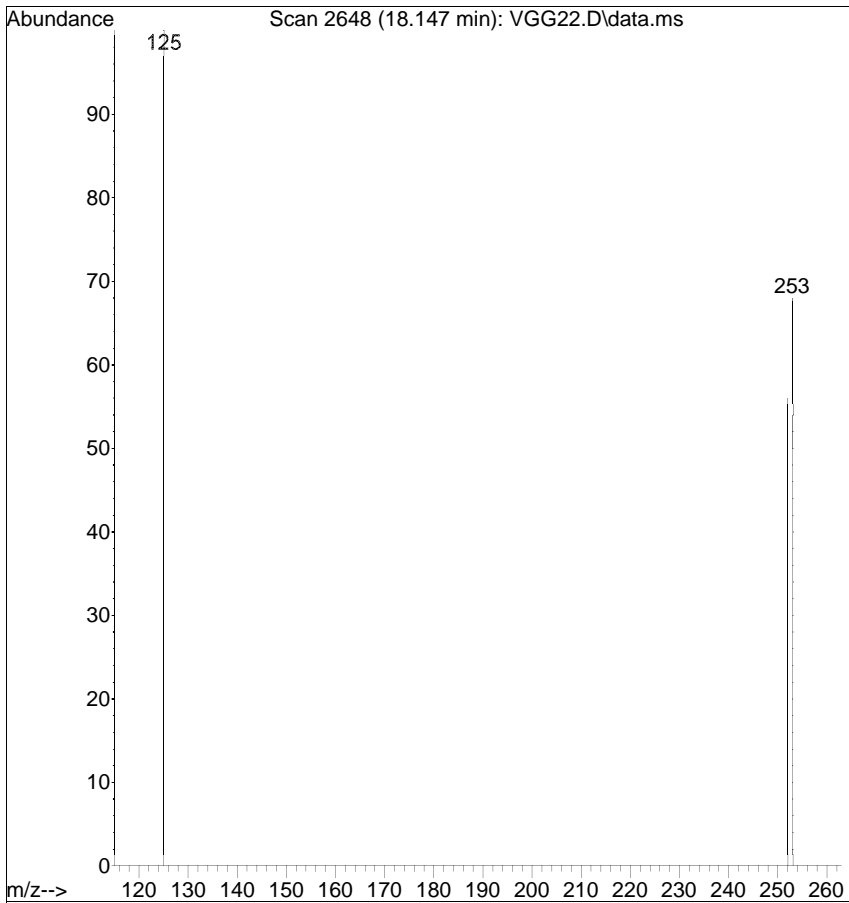
Abundance Ion 252.00 (251.50 to 252.50): VGG22



Ref



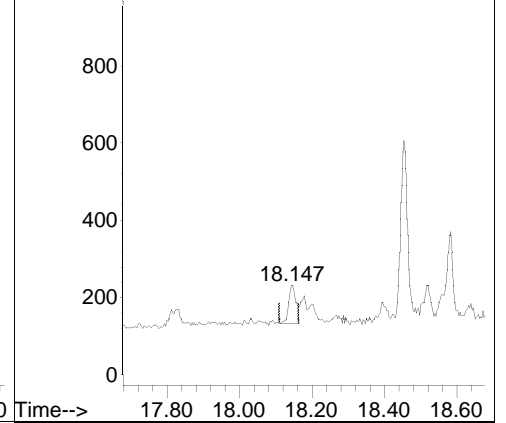
Raw



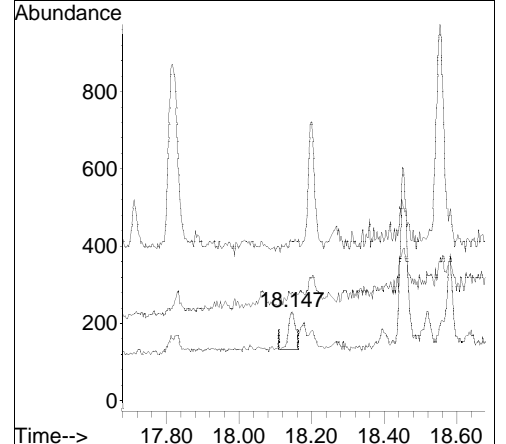
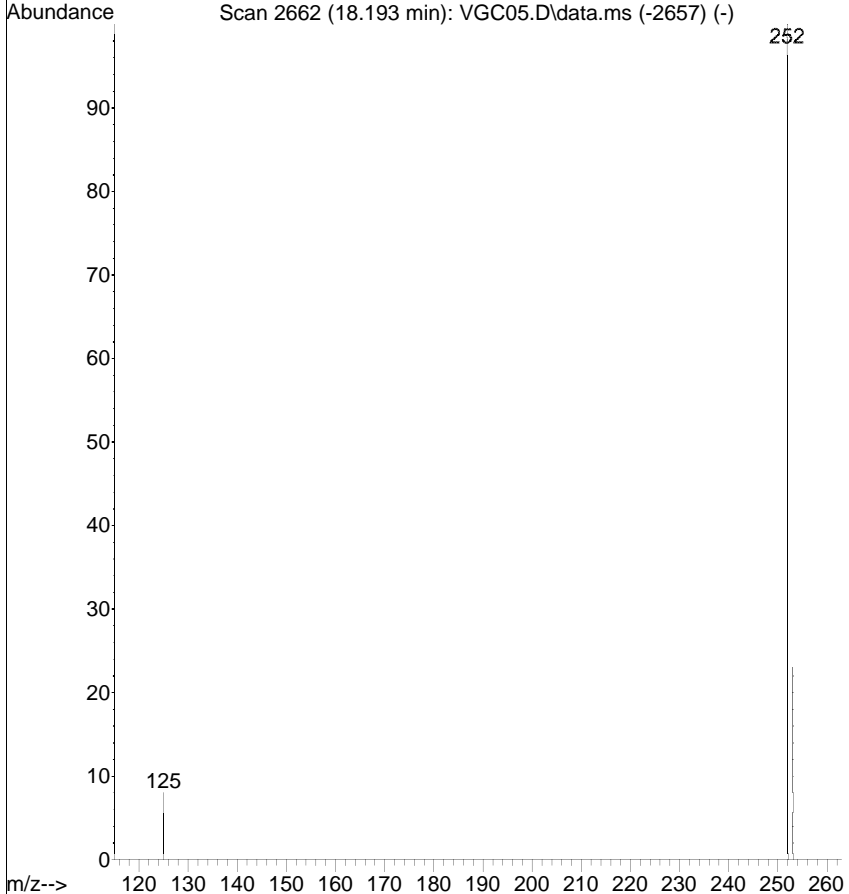
#25
 Benzo(k)fluoranthene
 Concen: 0.0017 ug/mL
 RT: 18.147 min Scan# 2648
 Delta R.T. -0.043 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

Tgt Ion	Ratio	Lower	Upper
252	100		
253	122.2	1.1	41.1#
125	178.7	0.0	21.1#

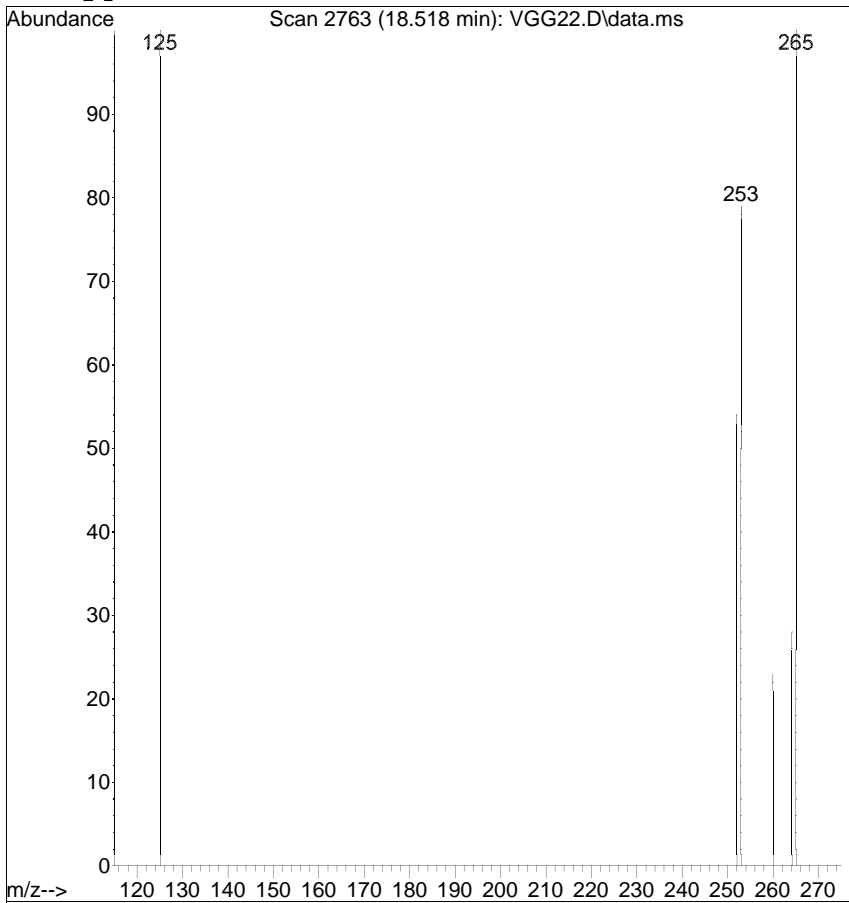
Abundance Ion 252.00 (251.50 to 252.50): VGG22



Ref



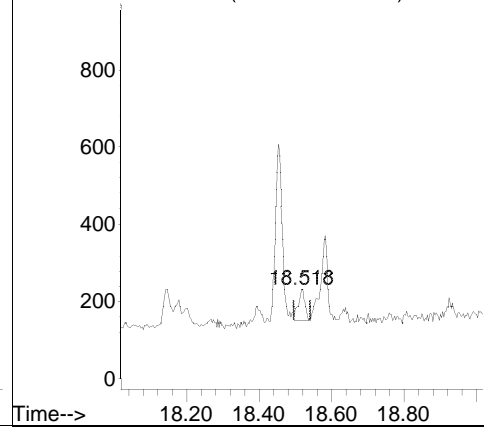
Raw



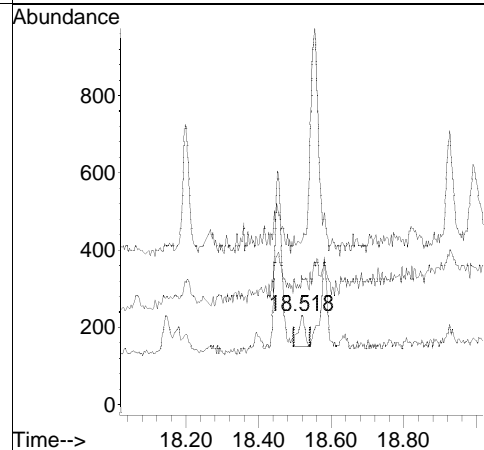
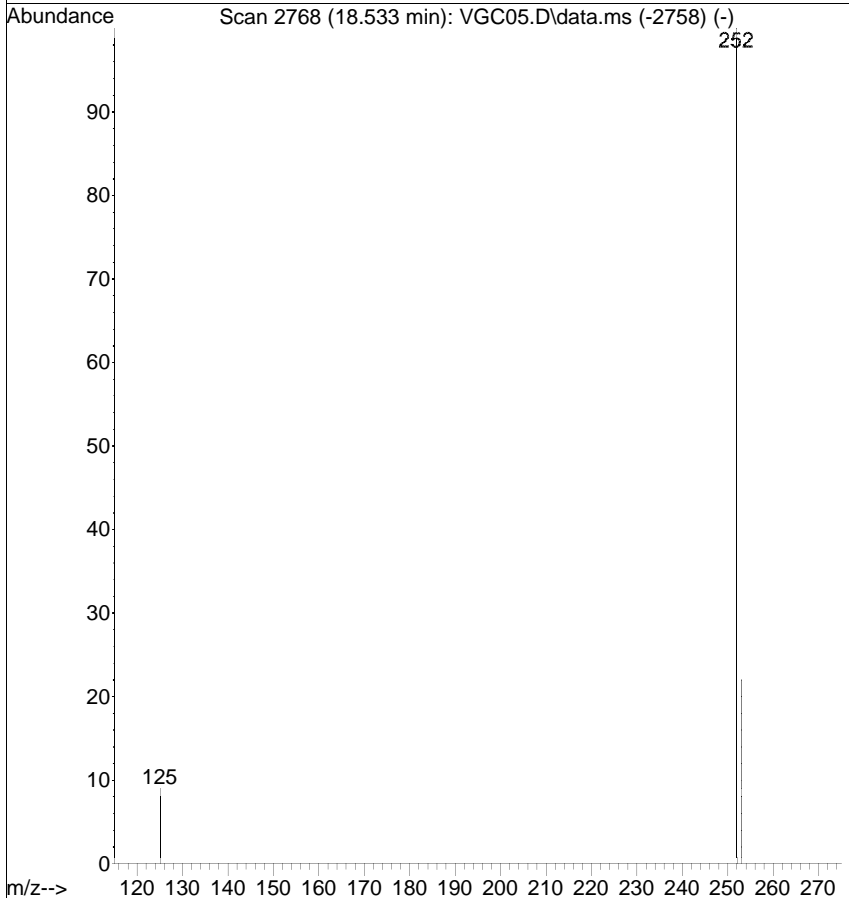
#26
 Benzo(a)pyrene
 Concen: 0.0015 ug/mL
 RT: 18.518 min Scan# 2763
 Delta R.T. -0.012 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

Tgt Ion	Resp	Lower	Upper
252	100		
253	145.0	3.4	43.4#
125	183.1	0.0	20.9#

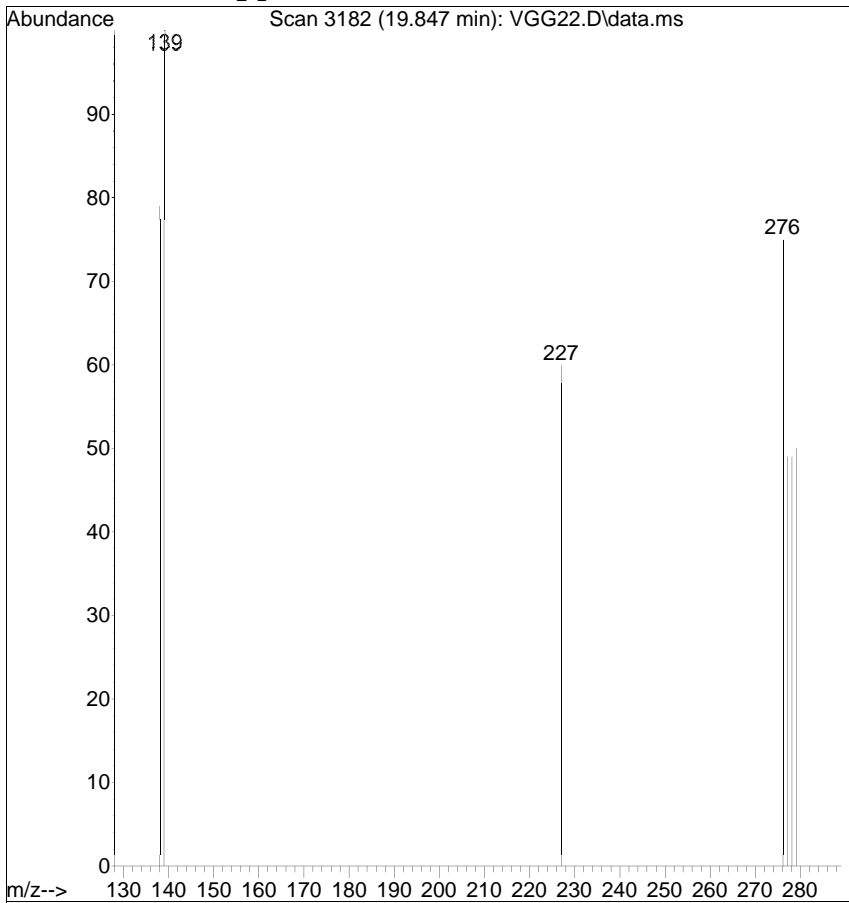
Abundance Ion 252.00 (251.50 to 252.50): VGG22



Ref

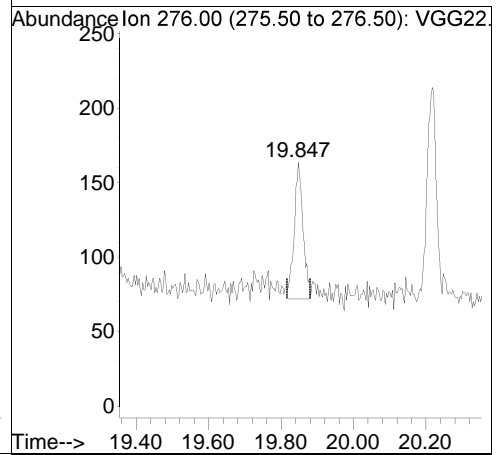


Raw

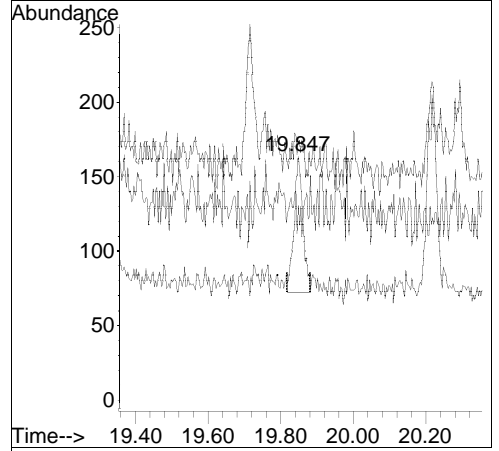
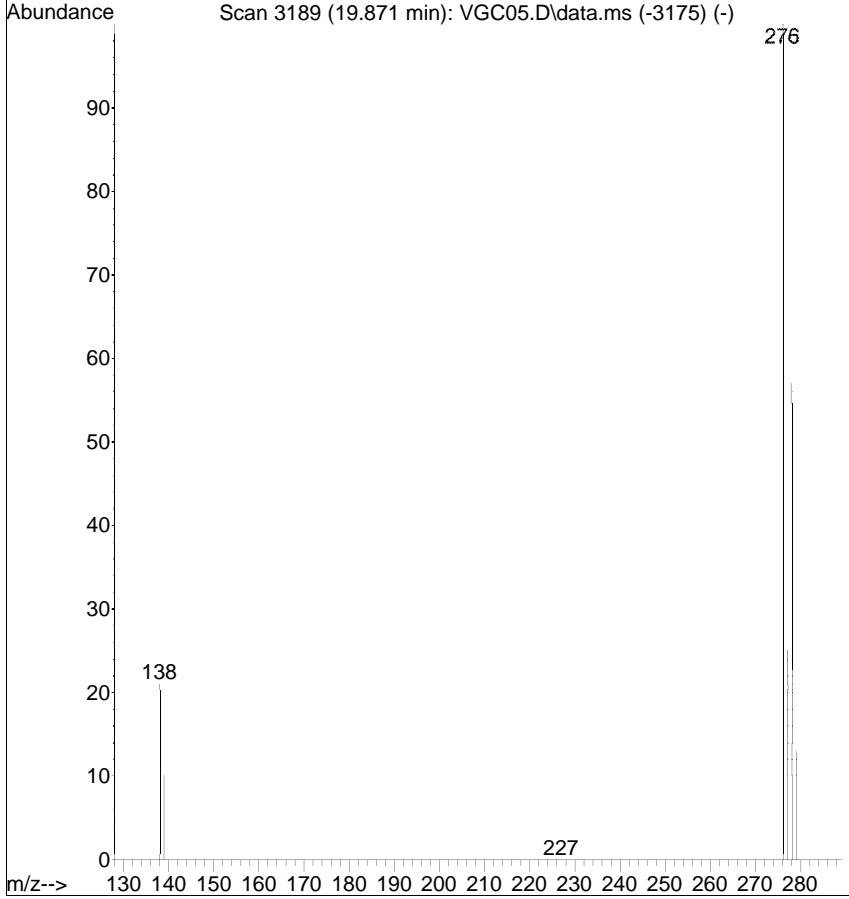


#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.0021 ug/mL
 RT: 19.847 min Scan# 3182
 Delta R.T. -0.020 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

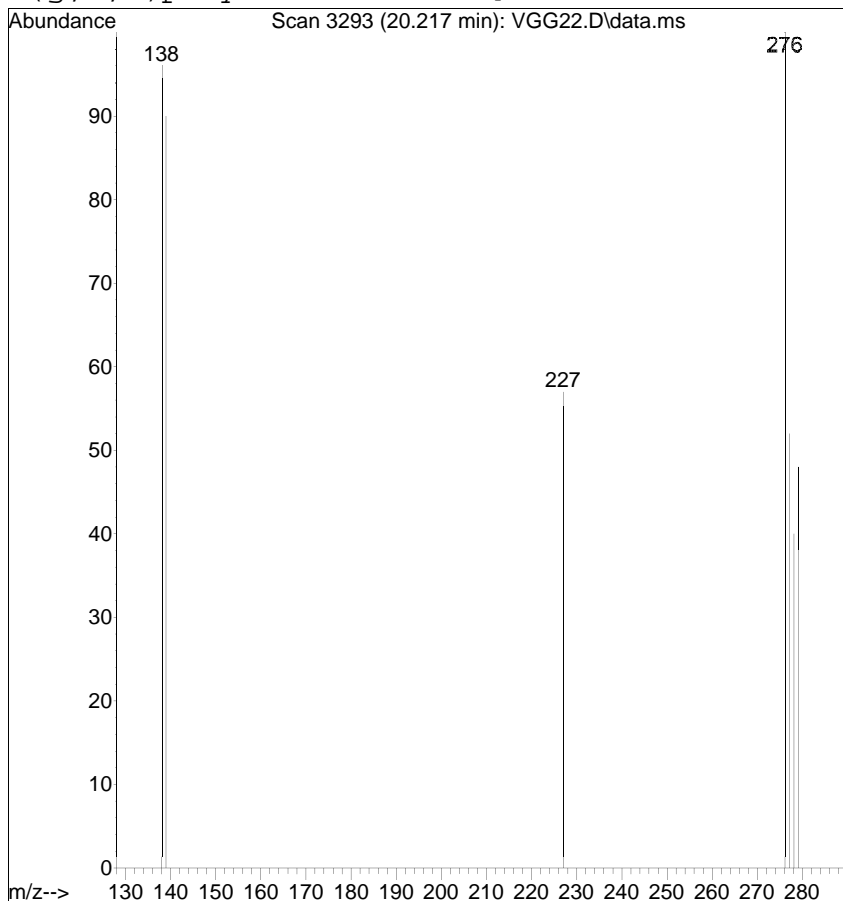
Tgt Ion	Resp	Lower	Upper
276	100		
138	105.5	0.0	23.1#
227	79.9	0.0	21.0#



Ref

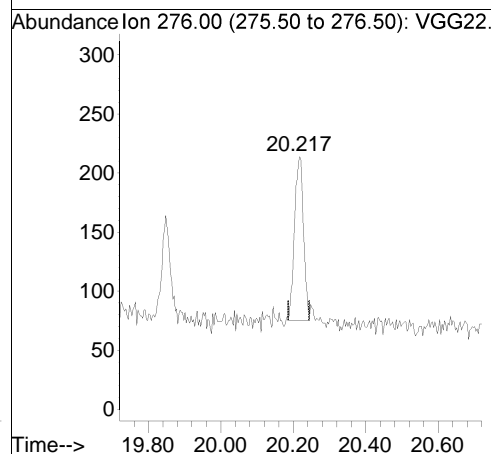


Raw

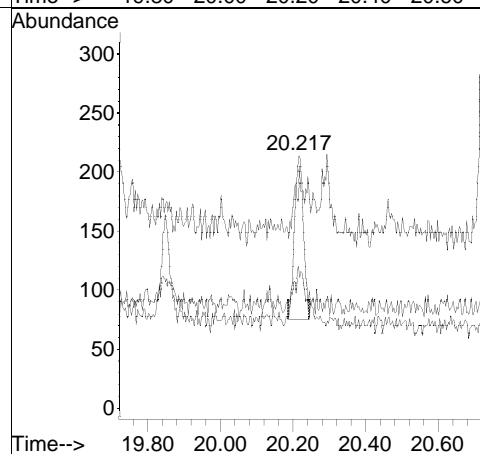
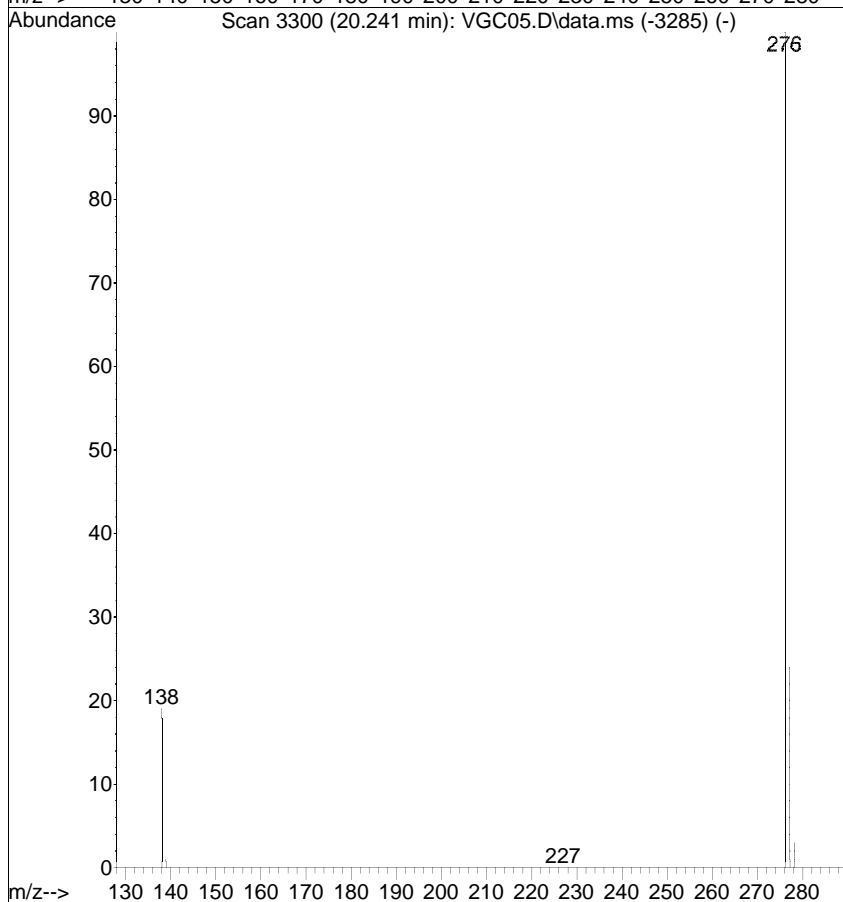


#29
 Benzo(g,h,i)perylene
 Concen: 0.0039 ug/mL
 RT: 20.217 min Scan# 3293
 Delta R.T. -0.016 min
 Lab File: VGG22.D
 Acq: 16 Jul 2018 9:28 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	95.8	0.0	22.1#
277	51.9	2.5	42.5#



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 301314-003 Client ID : BR11-1GW02
 Seqnum : 528280080026 Matrix : Water Acct : TRC-SF (MJD)
 File : vgd26 Batch : 261249 Time : 14-JUL-2018 00:25
 Cal : 528278537001 Caldate : 12-JUL-2018
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.05700	0.06 J	0.1		
Acenaphthylene	0.004600	ND	0.1		
Acenaphthene	0.004500	ND	0.1		
Fluorene	0.007200	ND	0.1		
Phenanthrene	0.01230	ND	0.1		
Anthracene	0.001700	ND	0.1		
Fluoranthene	0.005400	ND	0.1		
Pyrene	0.006900	ND	0.1		
Benzo(a)anthracene	0.003800	ND	0.1		
Chrysene	0.004100	ND	0.1		
Benzo(b)fluoranthene	0.002600	ND	0.1		
Benzo(k)fluoranthene	0.002400	ND	0.1		
Benzo(a)pyrene	0.002400	ND	0.1		
Indeno(1,2,3-cd)pyrene	0.003400	ND	0.1		
Dibenz(a,h)anthracene	0	ND	0.1		
Benzo(g,h,i)perylene	0.003500	ND	0.1		

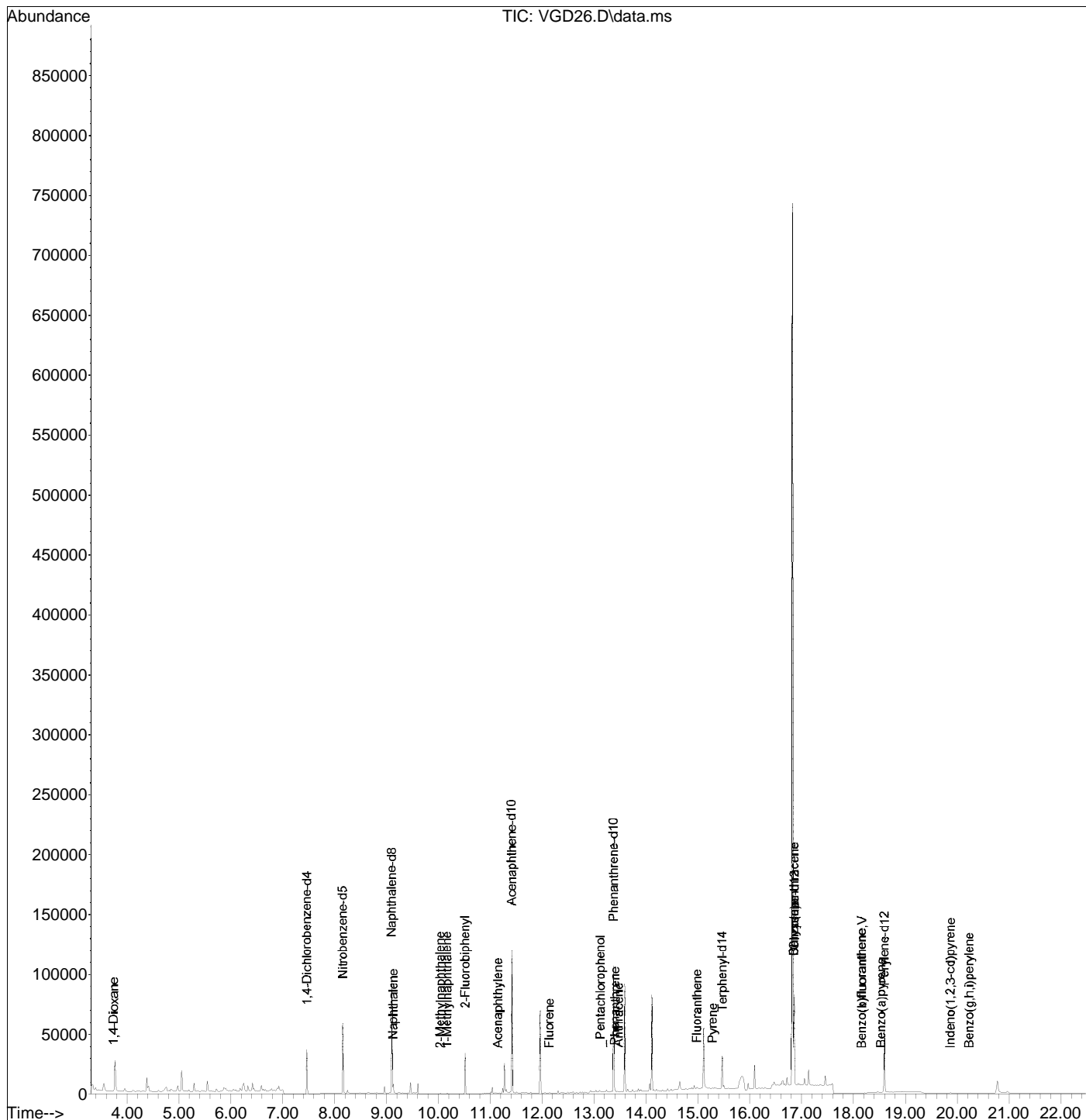
Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.8449	1.000	0.8449	84	48-124	
2-Fluorobiphenyl	0.3541	1.000	0.3541	35*	51-120	
Terphenyl-d14	0.3771	1.000	0.3771	38	25-120	

ISTD (CCV vgd06)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	84858	78955	-6.96	9.10	9.10	0.00
Acenaphthene-d10	52953	44624	-15.73	11.41	11.41	0.00
Phenanthrene-d10	98761	93377	-5.45	13.38	13.38	0.00
Chrysene-d12	80453	58715	-27.02	16.85	16.86	0.01
Perylene-d12	74224	39167	-47.23	18.59	18.59	0.00

Analyst: _____ Date: _____ Reviewer: _____ Date: _____

Data Path : G:\msbna03\071318\
 Data File : VGD26.D
 Acq On : 14 Jul 2018 12:25 am
 Operator :
 Sample : S,301314-003
 Misc : 261249,1,
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 16 09:11:02 2018
 Quant Method : G:\msbna03\071318\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\msbna03\071318\
 Data File : VGD26.D
 Acq On : 14 Jul 2018 12:25 am
 Operator :
 Sample : S,301314-003
 Misc : 261249,1,
 ALS Vial : 26 Sample Multiplier: 1

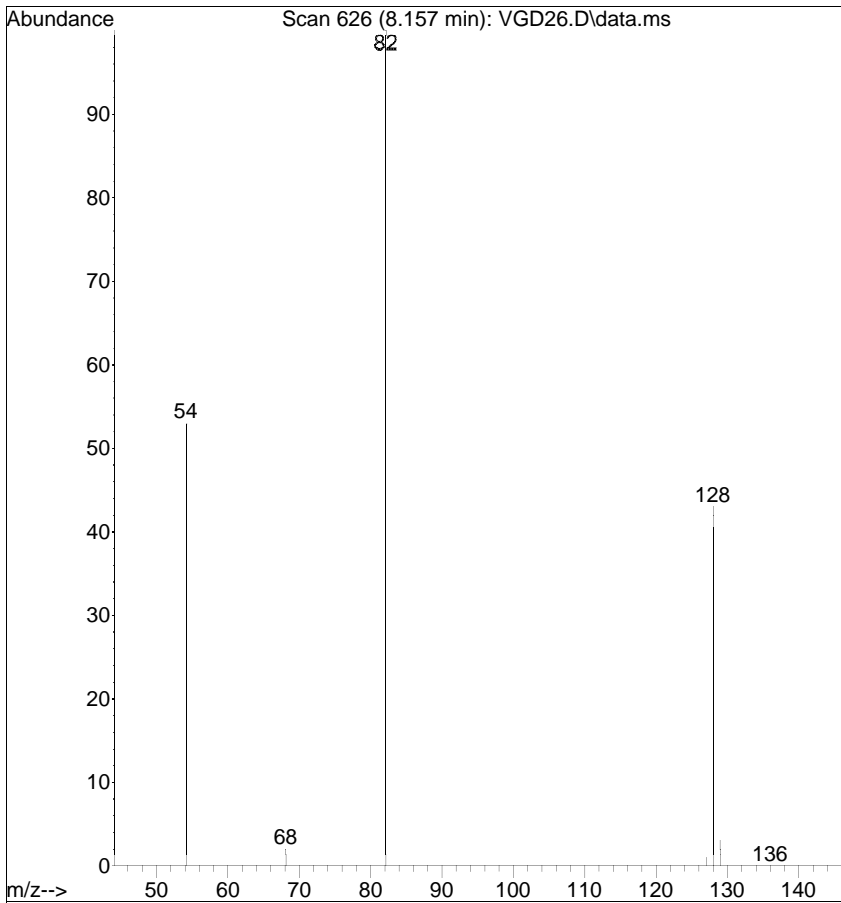
Quant Time: Jul 16 09:11:02 2018
 Quant Method : G:\msbna03\071318\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.461	152	23357	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.097	136	78955	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.414	164	44624	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.376	188	93377	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	58715	1.0000	ug/mL	0.00
23) Perylene-d12	18.594	264	39167	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.743	88	360	0.3871	ug/mL	# 1
4) Nitrobenzene-d5	8.157	82	27568	0.8449	ug/mL	# 75
5) Naphthalene	9.125	128	4486	0.0570	ug/mL	94
6) 2-Methylnaphthalene	10.035	142	493	0.0081	ug/mL	100
7) 1-Methylnaphthalene	10.166	142	518	0.0093	ug/mL	94
9) 2-Fluorobiphenyl	10.511	172	23596	0.3541	ug/mL	95
10) Acenaphthylene	11.146	152	319	0.0046	ug/mL	# 35
11) Acenaphthene	11.414	154	200	0.0045	ug/mL	# 55
12) Fluorene	12.136	166	369	0.0072	ug/mL	# 81
14) _Pentachlorophenol	13.121	266	118	0.4958	ug/mL	81
15) Phenanthrene	13.406	178	1084	0.0123	ug/mL	73
16) Anthracene	13.471	178	148	0.0017	ug/mL	# 1
17) Fluoranthene	14.983	202	558	0.0054	ug/mL	# 23
19) Pyrene	15.284	202	544	0.0069	ug/mL	# 42
20) Terphenyl-d14	15.470	244	24967	0.3771	ug/mL	91
21) Benzo(a)anthracene	16.850	228	270	0.0038	ug/mL	# 22
22) Chrysene	16.850	228	270	0.0041	ug/mL	# 31
24) Benzo(b)fluoranthene	18.160	252	121	0.0026	ug/mL	# 1
25) Benzo(k)fluoranthene	18.160	252	121	0.0024	ug/mL	# 1
26) Benzo(a)pyrene	18.531	252	103	0.0024	ug/mL	# 1
27) Indeno(1,2,3-cd)pyrene	19.867	276	160	0.0034	ug/mL	# 1
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
29) Benzo(g,h,i)perylene	20.230	276	133	0.0035	ug/mL	# 1

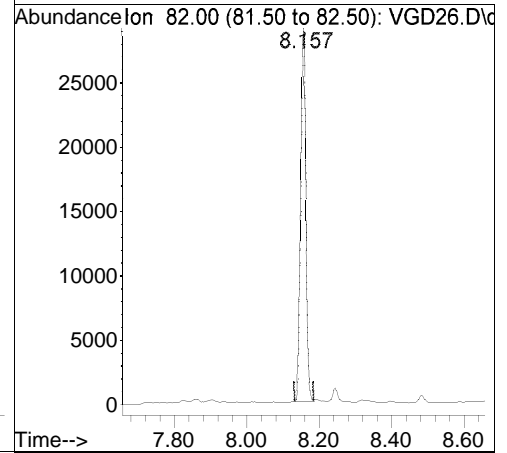
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

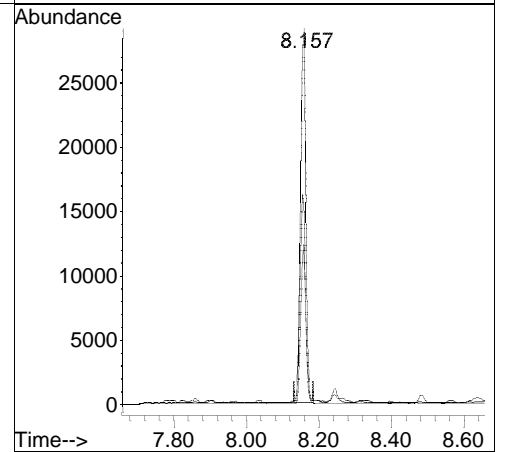
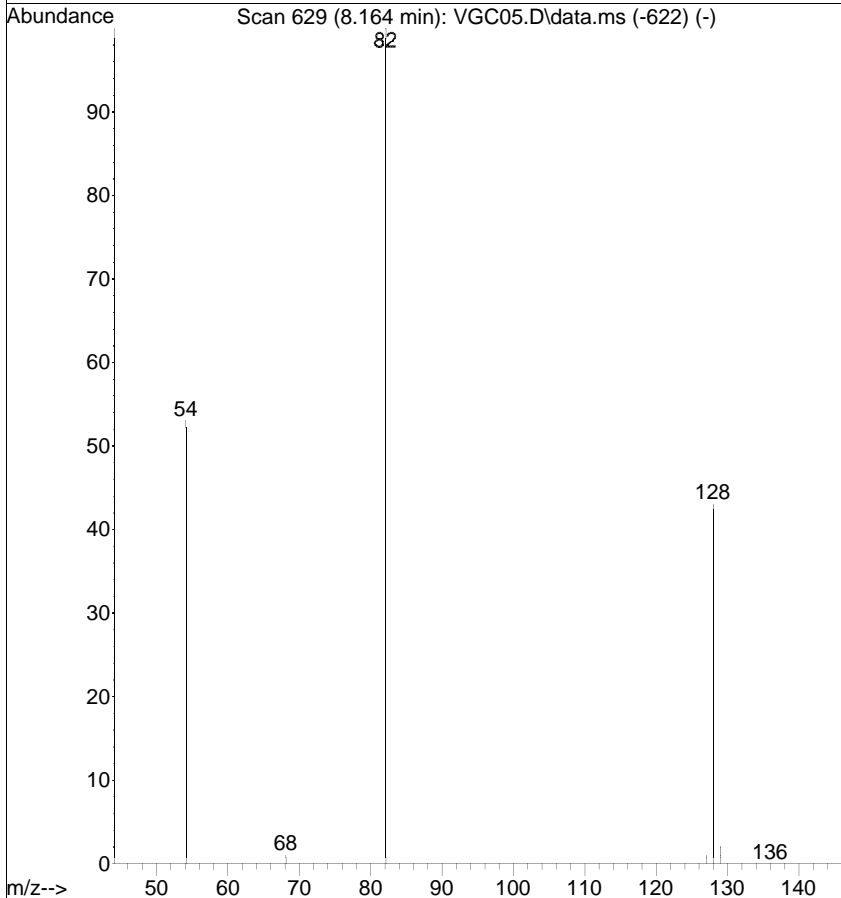


#4
 Nitrobenzene-d5
 Concen: 0.8449 ug/mL
 RT: 8.157 min Scan# 626
 Delta R.T. -0.003 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

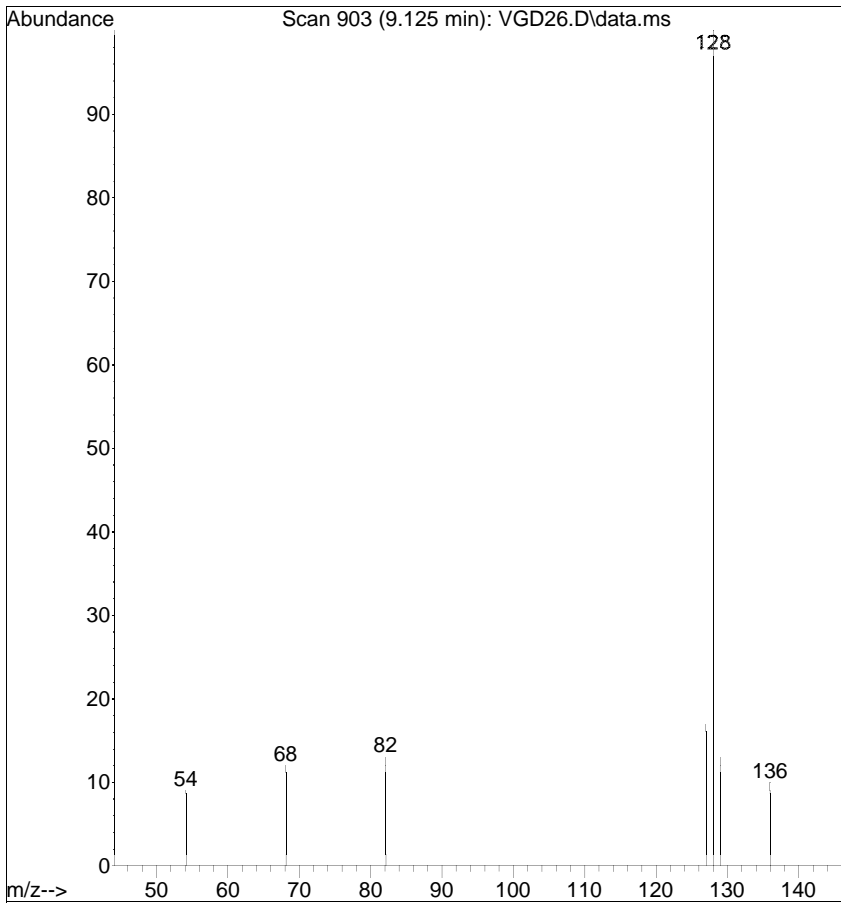
Tgt Ion	Resp	Lower	Upper
82	27568		
128	42.7	10.5	50.5
54	53.2	56.2	96.2#



Ref

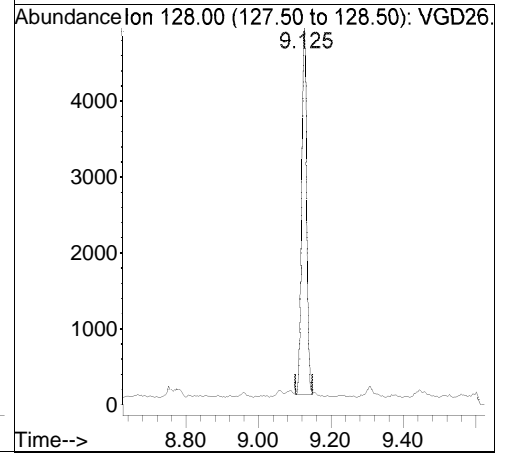


Raw

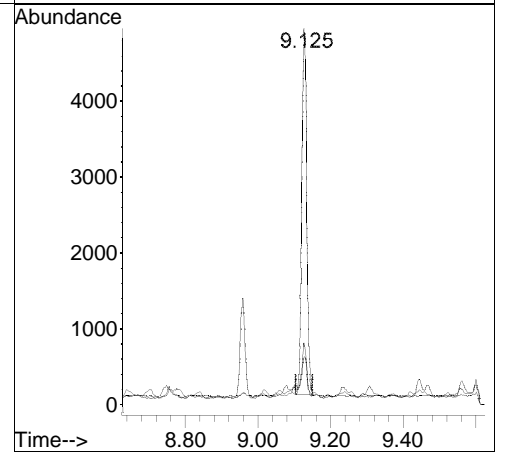
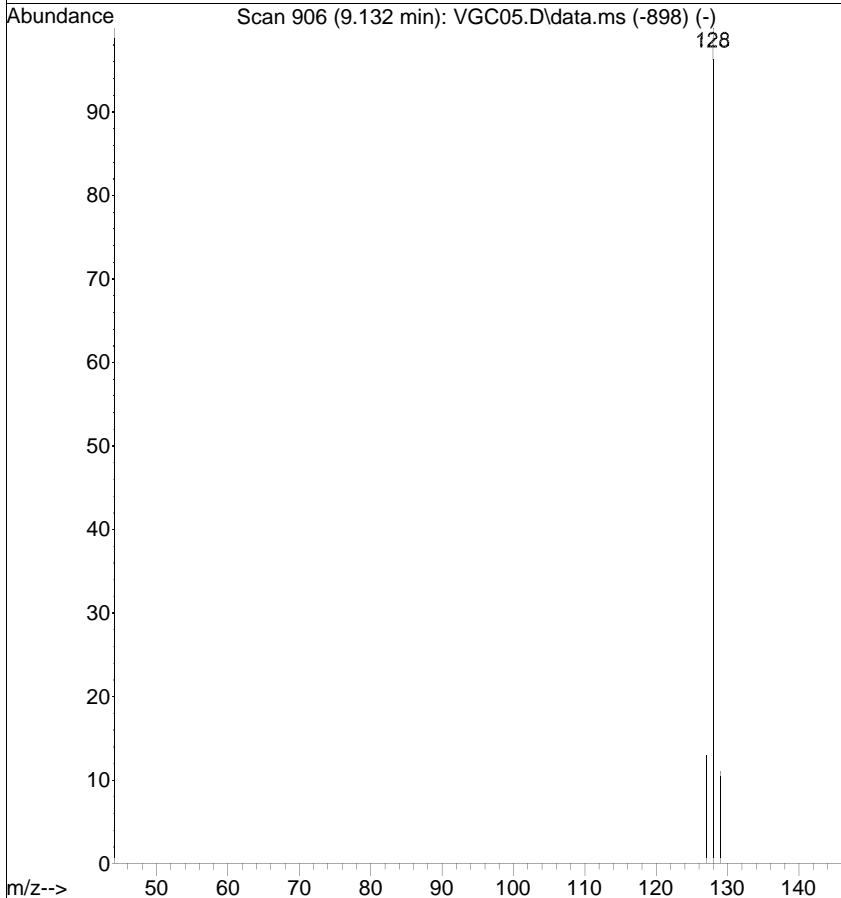


#5
 Naphthalene
 Concen: 0.0570 ug/mL
 RT: 9.125 min Scan# 903
 Delta R.T. -0.003 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

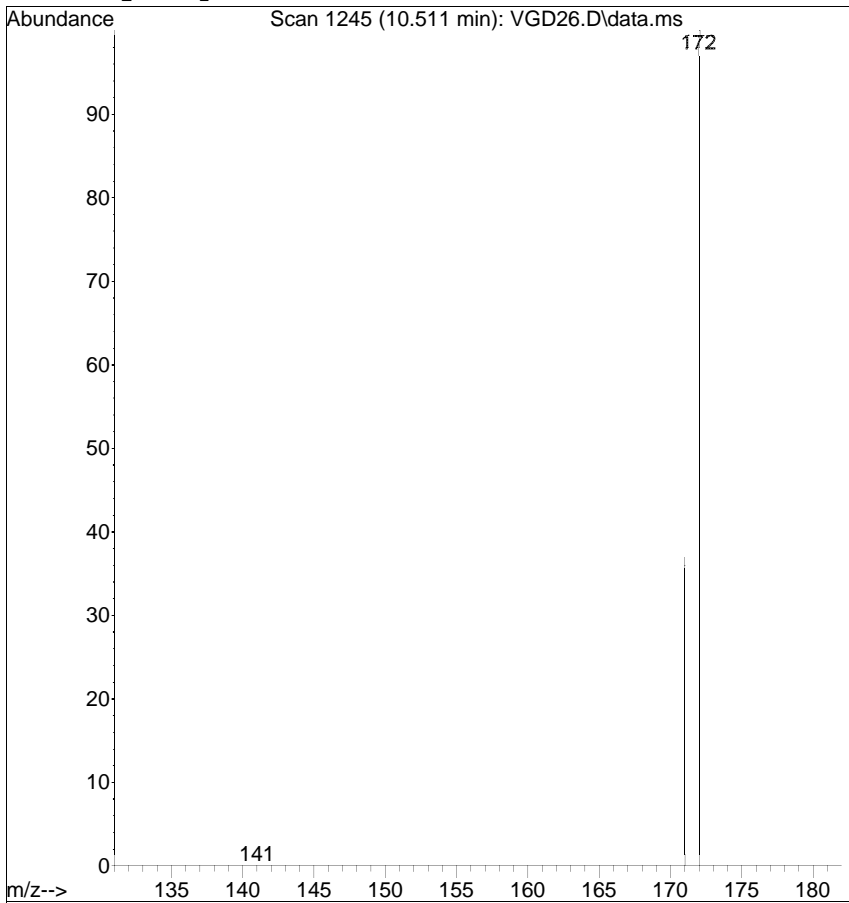
Tgt Ion	Resp	Lower	Upper
128	4486		
129	12.9	0.0	31.1
127	16.5	0.0	34.0



Ref

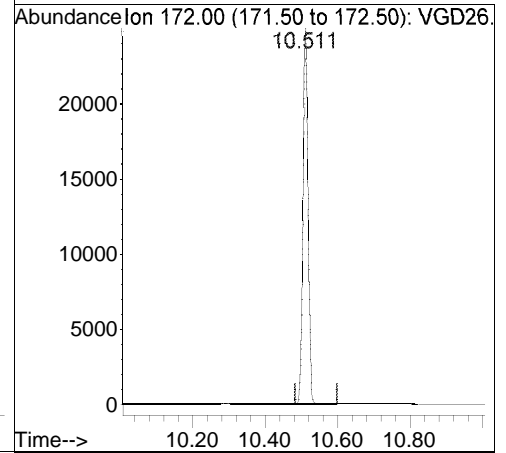


Raw

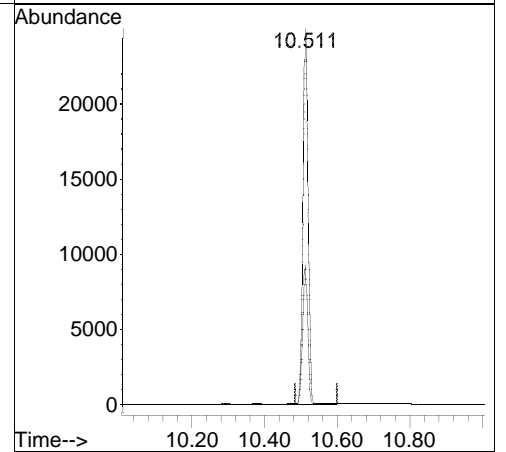
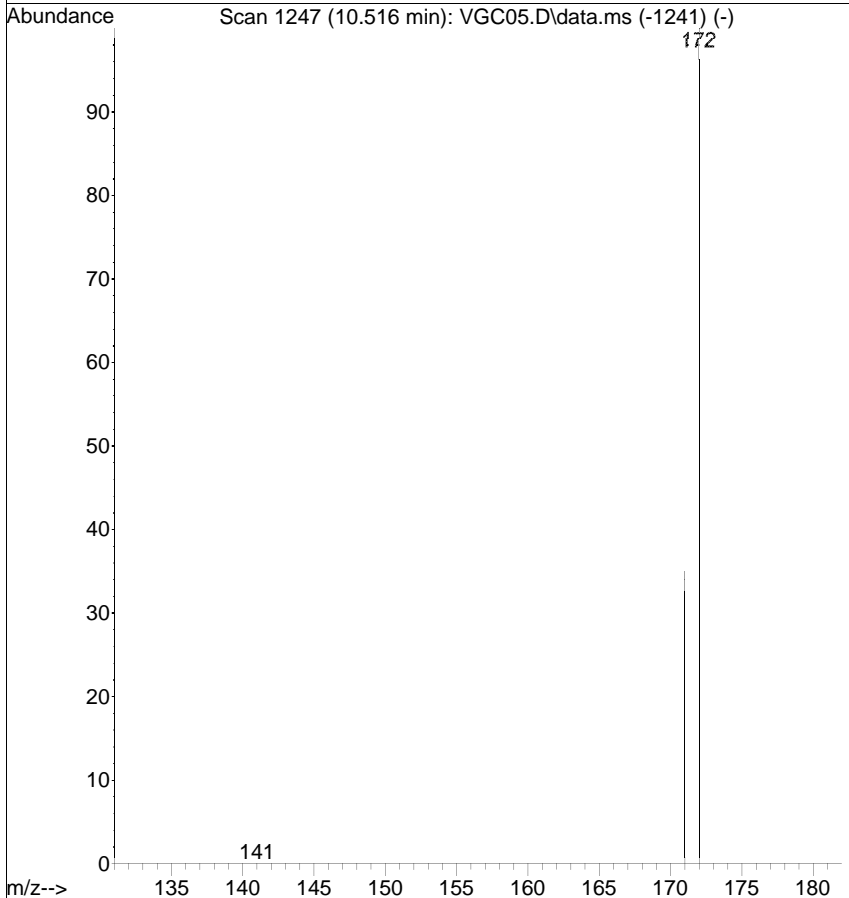


#9
2-Fluorobiphenyl
Concen: 0.3541 ug/mL
RT: 10.511 min Scan# 1245
Delta R.T. 0.000 min
Lab File: VGD26.D
Acq: 14 Jul 2018 12:25 am

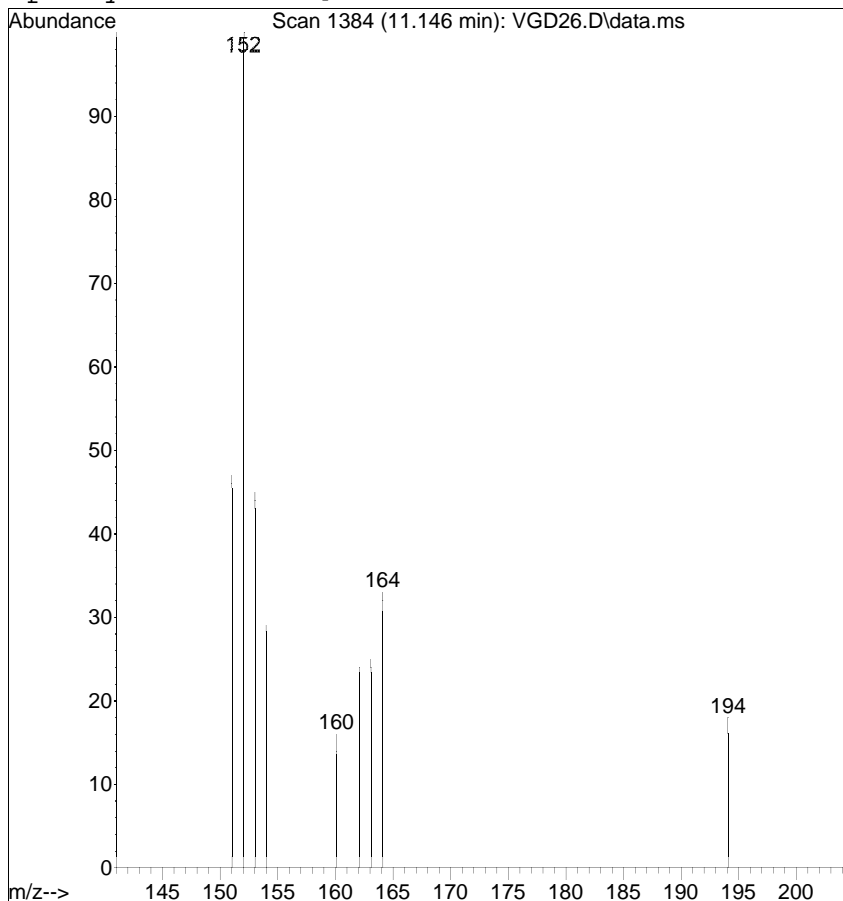
Tgt Ion	Resp	Lower	Upper
172	23596	100	
171	37.2	14.4	54.4



Ref



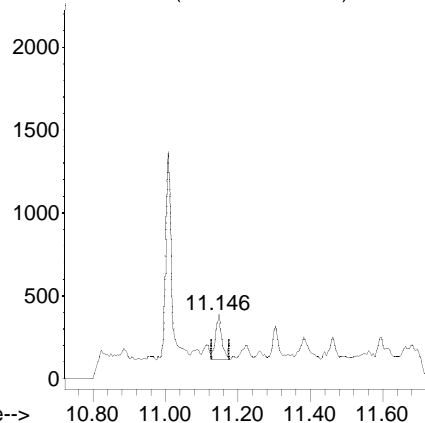
Raw



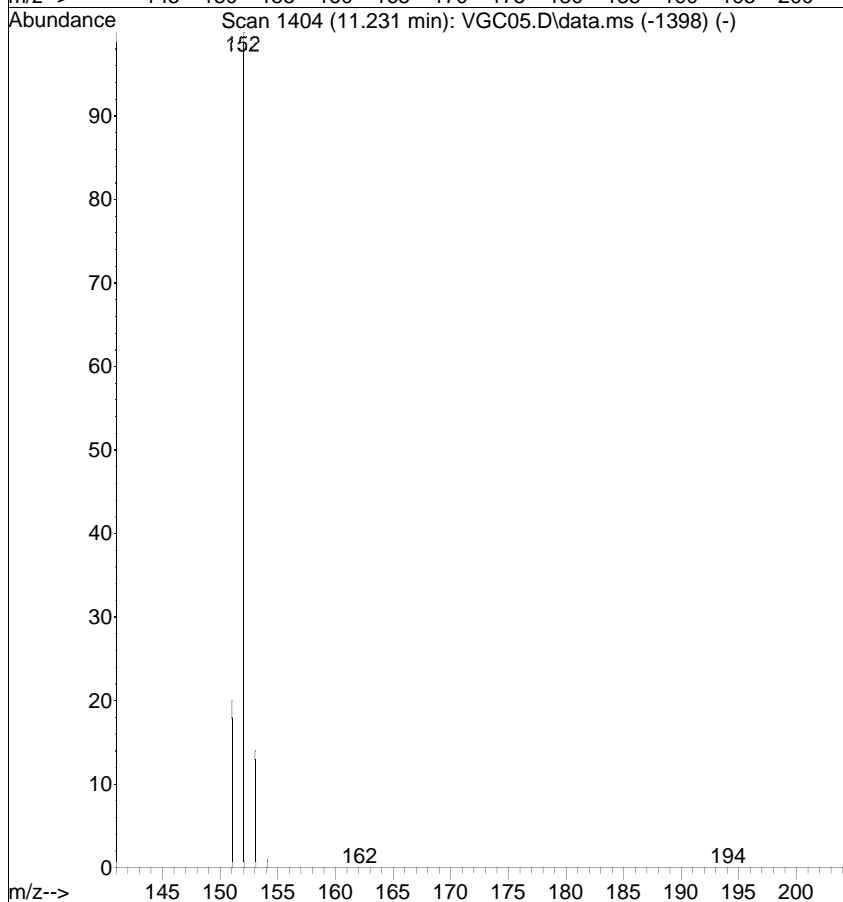
#10
 Acenaphthylene
 Concen: 0.0046 ug/mL
 RT: 11.146 min Scan# 1384
 Delta R.T. -0.080 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

Tgt Ion	Resp	Lower	Upper
152	100		
151	46.9	1.0	41.0#
153	45.1	0.0	33.1#

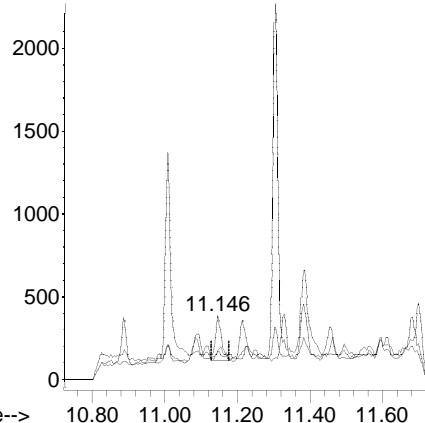
Abundance Ion 152.00 (151.50 to 152.50): VGD26



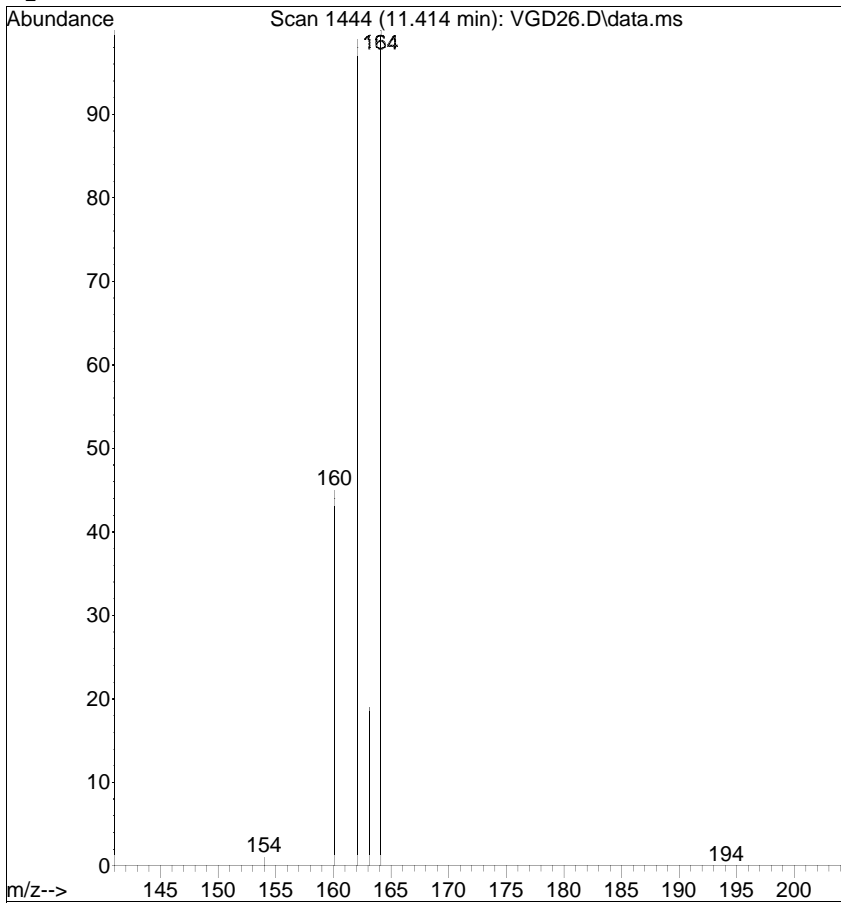
Ref



Abundance

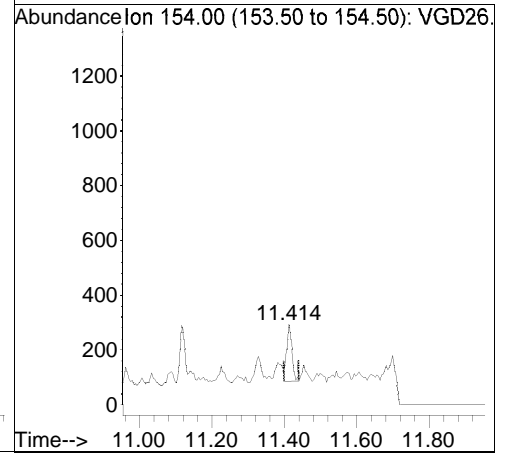


Raw

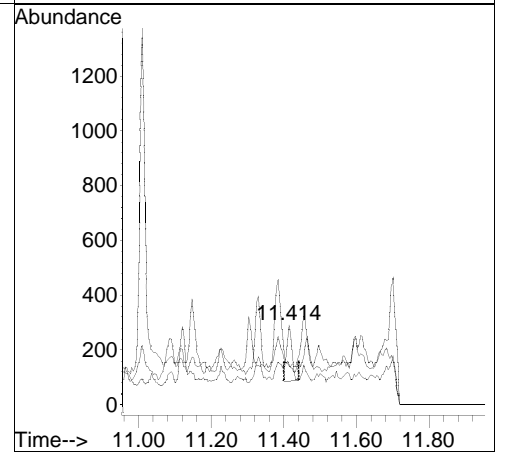
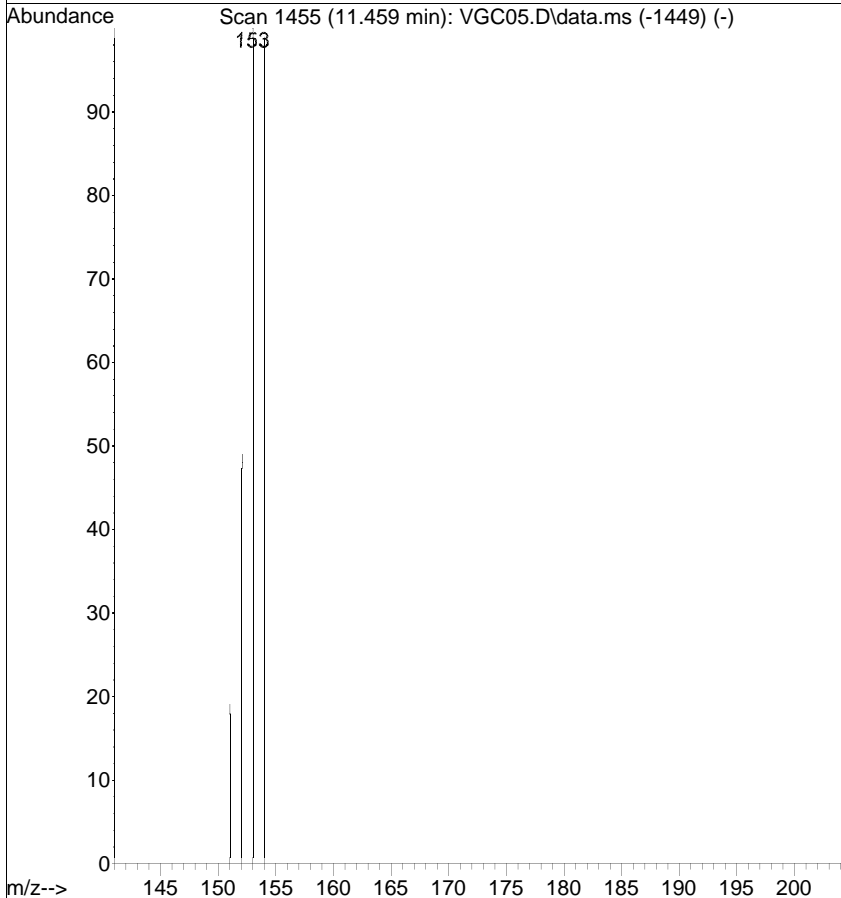


#11
 Acenaphthene
 Concen: 0.0045 ug/mL
 RT: 11.414 min Scan# 1444
 Delta R.T. -0.045 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

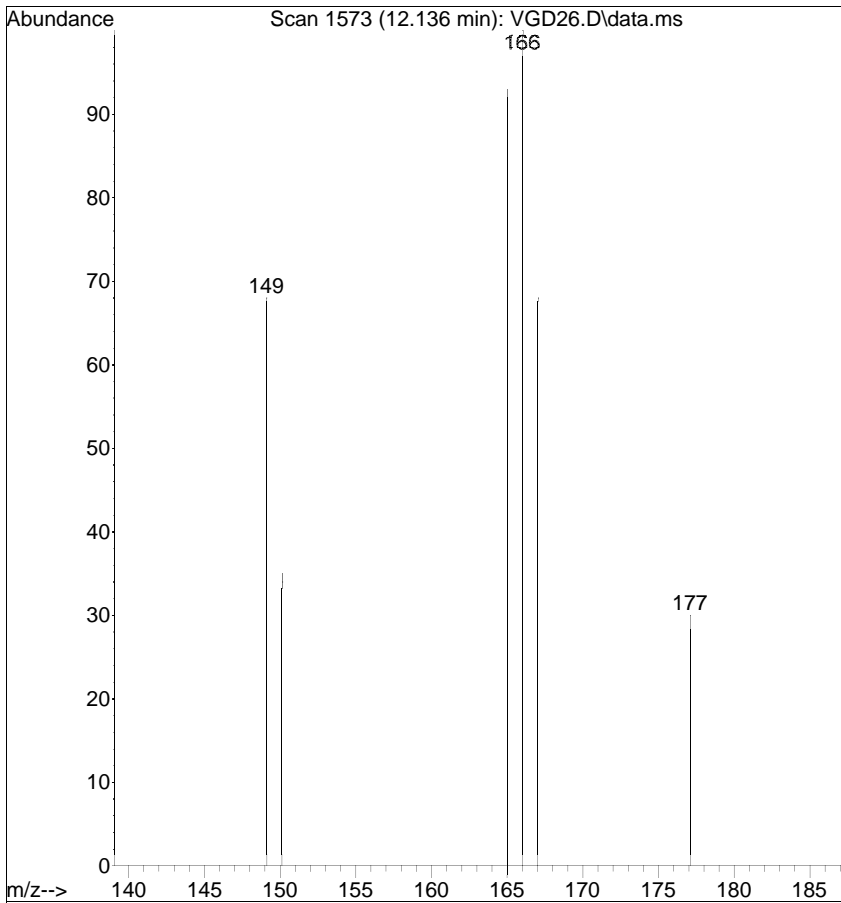
Tgt Ion	Resp	Lower	Upper
154	100		
152	50.0	35.4	75.4
153	47.6	96.8	136.8#



Ref

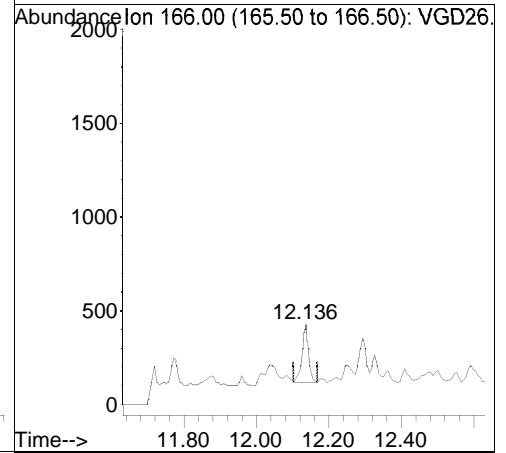


Raw

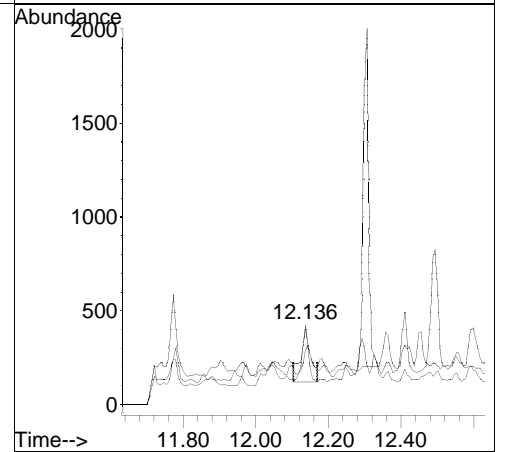
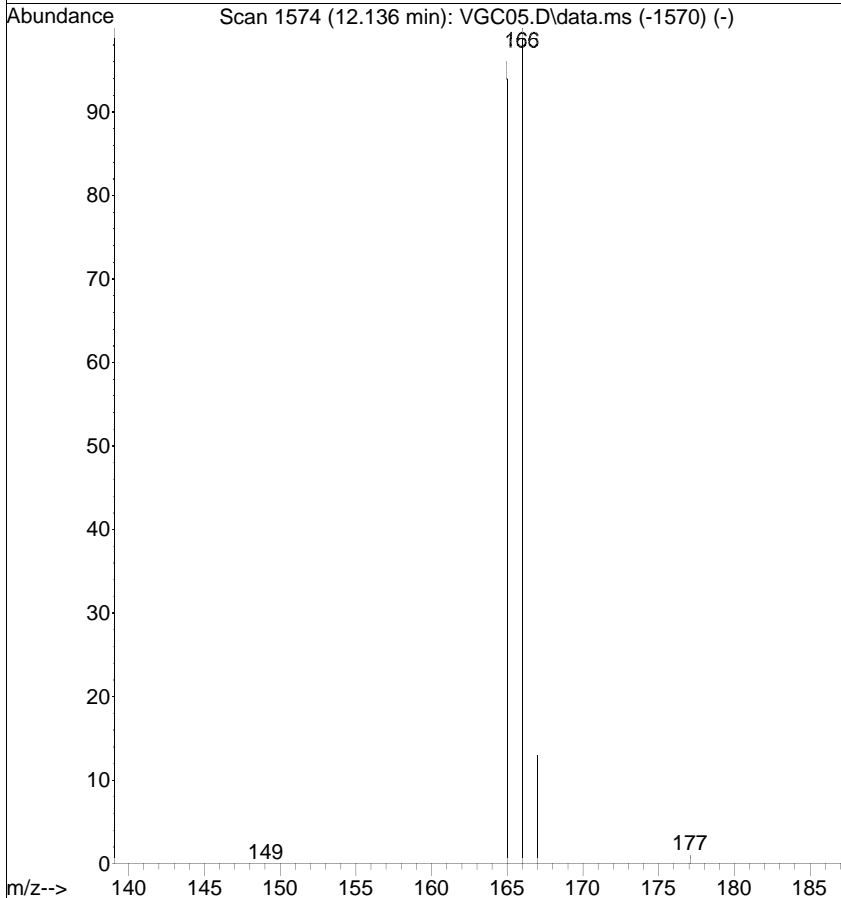


#12
 Fluorene
 Concen: 0.0072 ug/mL
 RT: 12.136 min Scan# 1573
 Delta R.T. 0.000 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

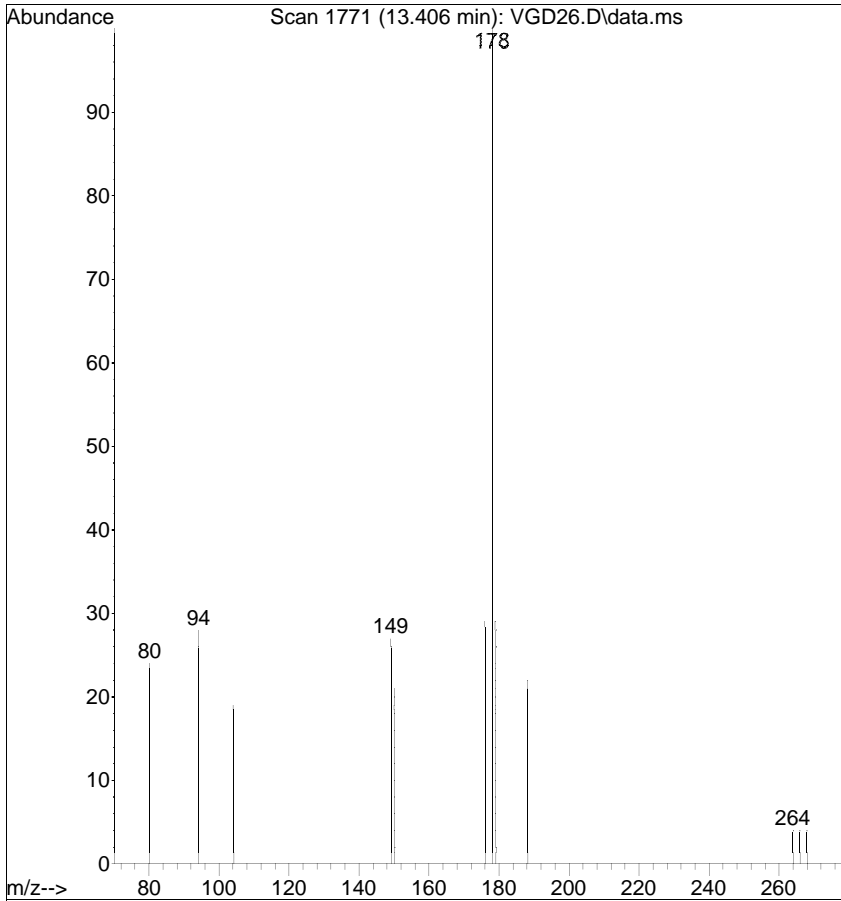
Tgt Ion	Resp	Lower	Upper
166	100		
165	92.8	74.9	114.9
167	67.8	0.0	33.9#



Ref

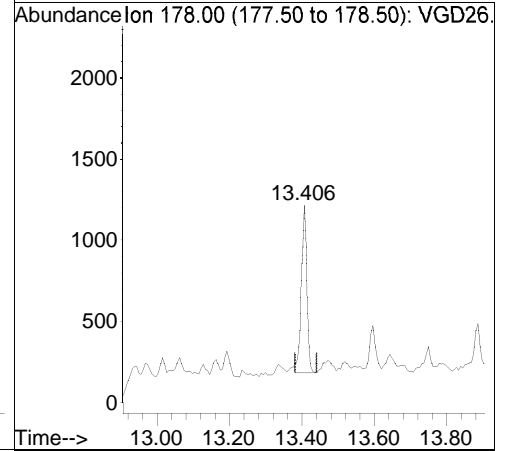


Raw

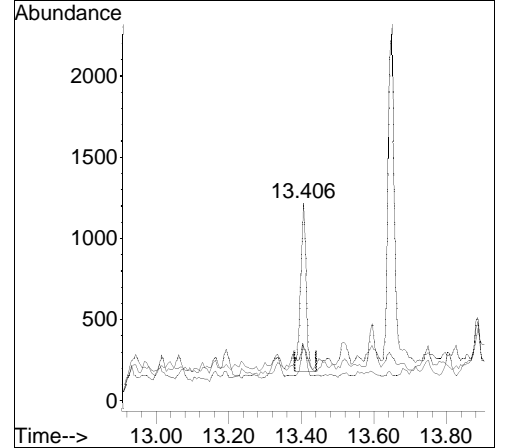
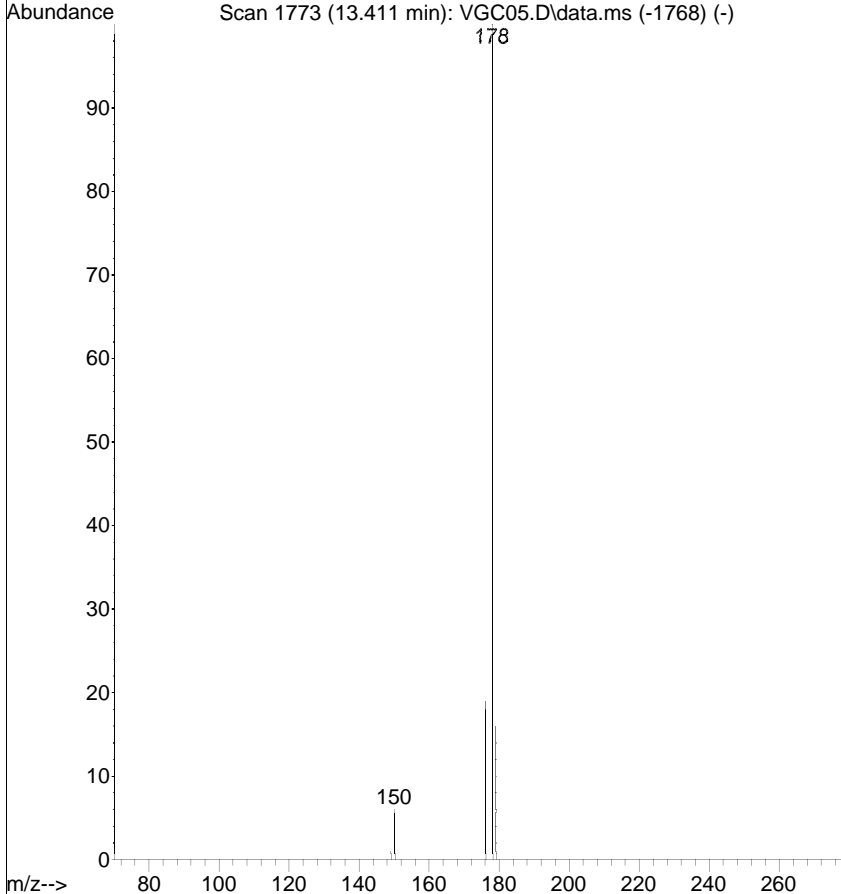


#15
 Phenanthrene
 Concen: 0.0123 ug/mL
 RT: 13.406 min Scan# 1771
 Delta R.T. -0.000 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

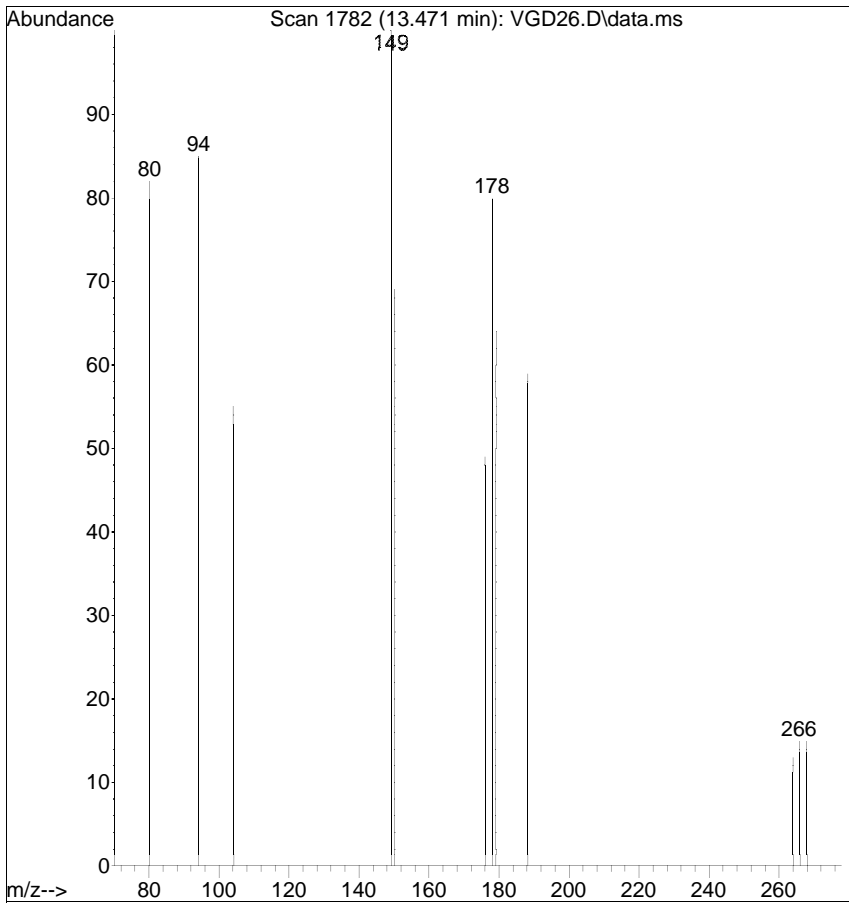
Tgt Ion	Resp	Lower	Upper
178	1084		
179	29.2	0.0	35.0
176	28.6	0.0	38.9



Ref

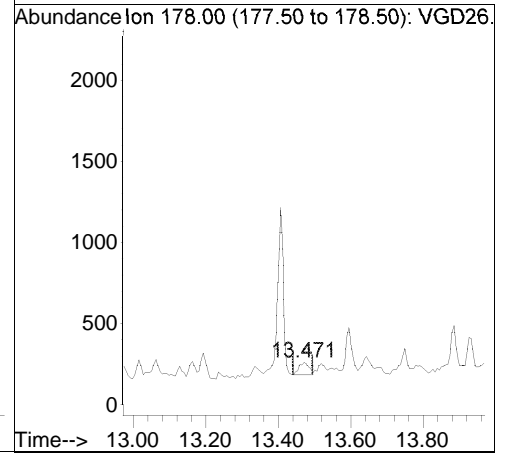


Raw

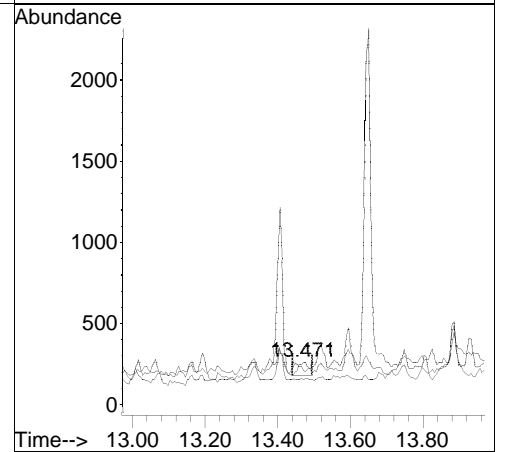
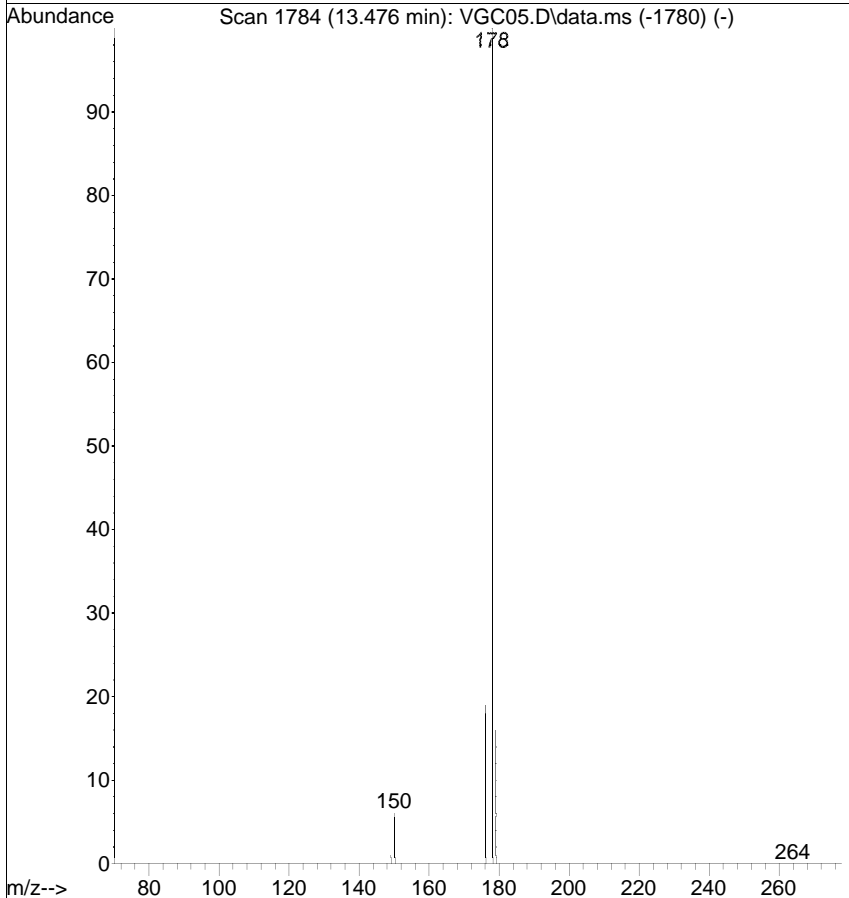


#16
 Anthracene
 Concen: 0.0017 ug/mL
 RT: 13.471 min Scan# 1782
 Delta R.T. -0.000 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

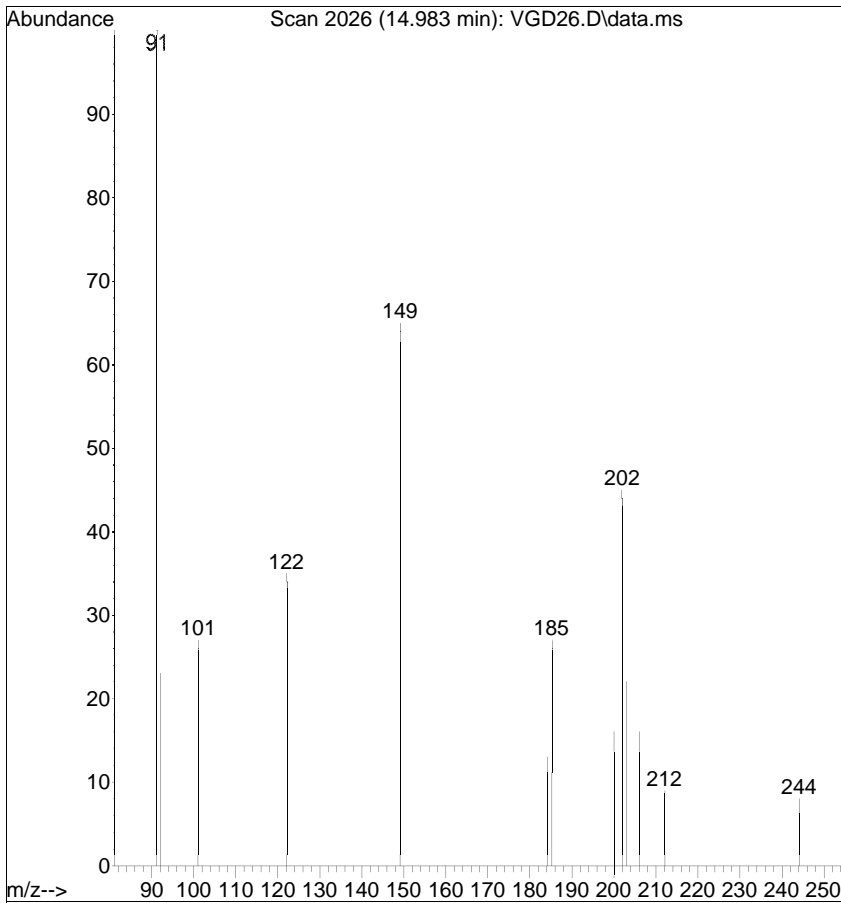
Tgt Ion	Ratio	Lower	Upper
178	100		
179	79.8	0.0	34.4#
176	61.5	0.0	39.5#



Ref

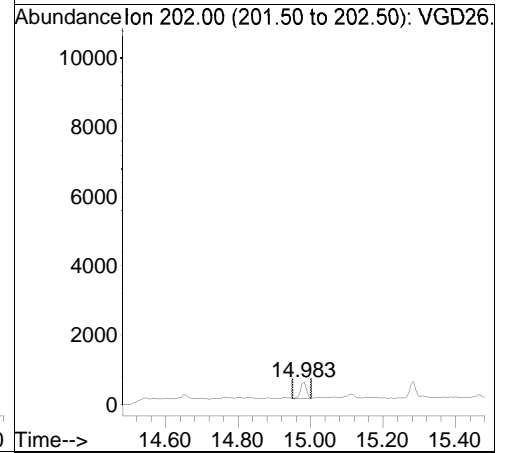


Raw

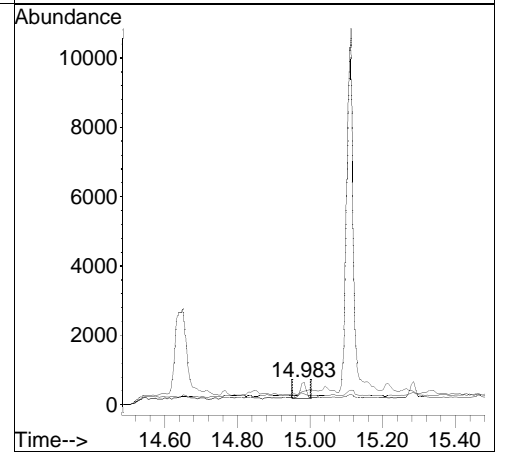
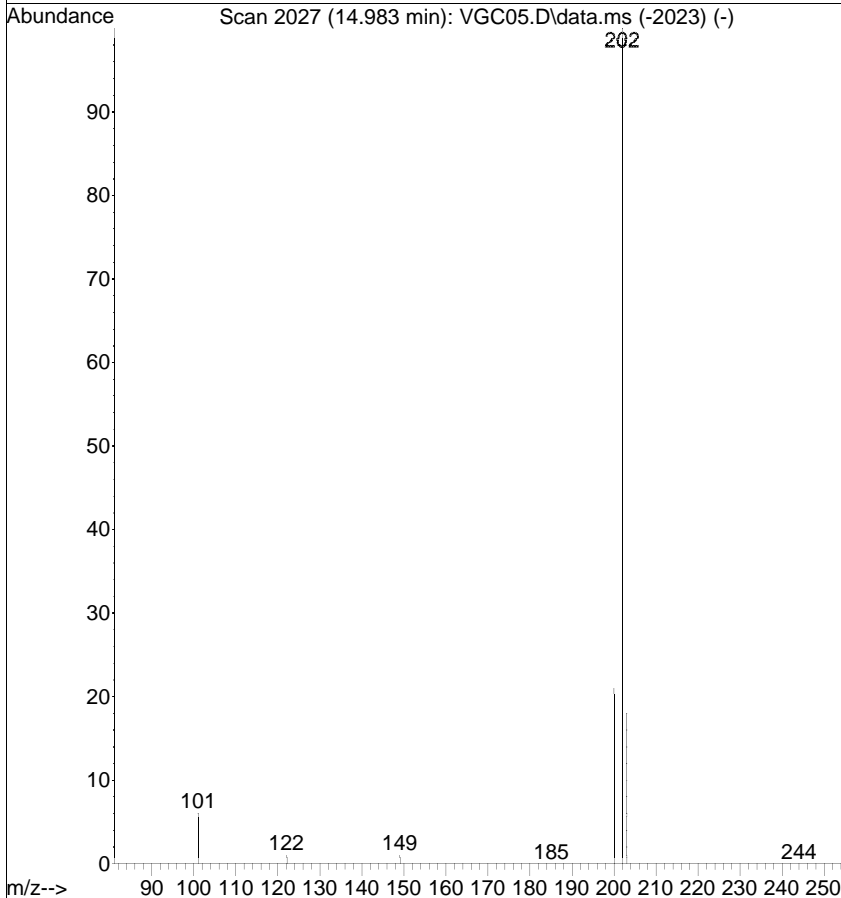


#17
 Fluoranthene
 Concen: 0.0054 ug/mL
 RT: 14.983 min Scan# 2026
 Delta R.T. 0.001 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

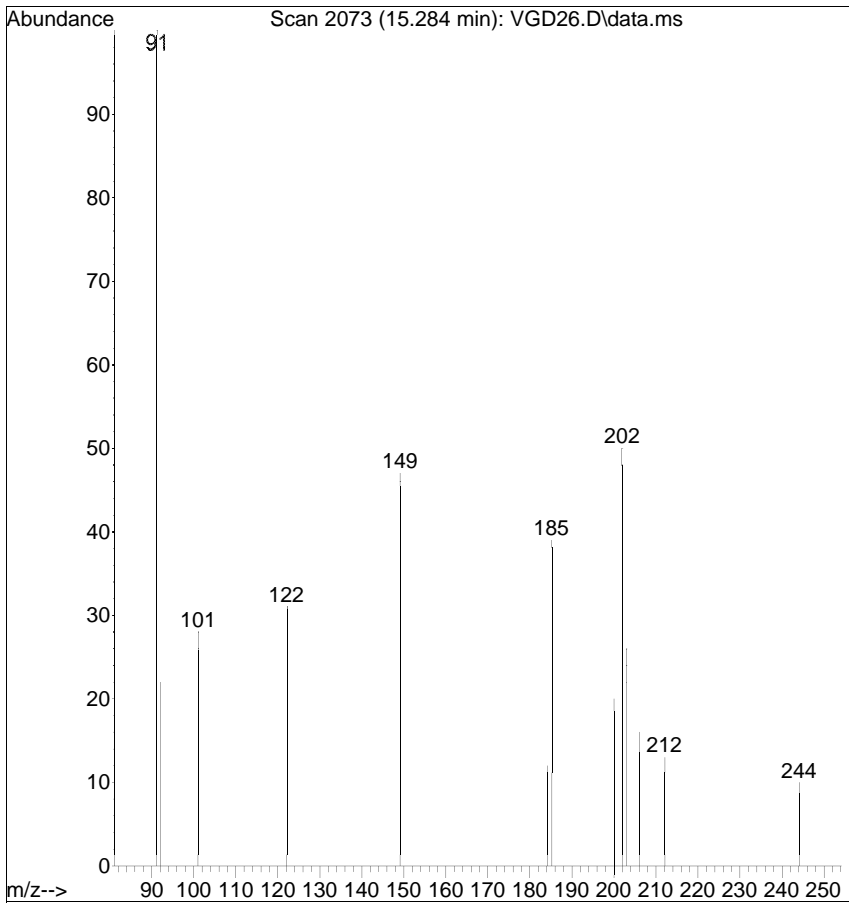
Tgt Ion	Ratio	Lower	Upper
202	100		
101	59.0	0.0	21.1#
203	48.8	0.0	37.0#



Ref

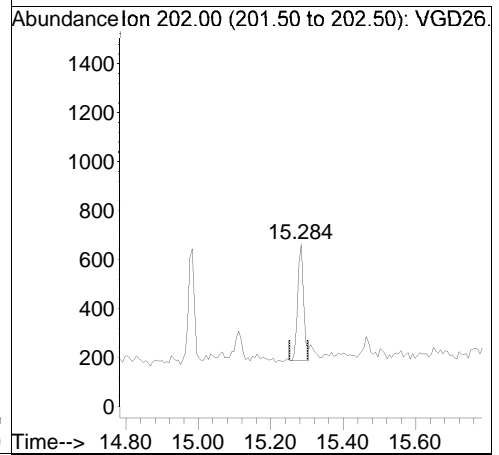


Raw

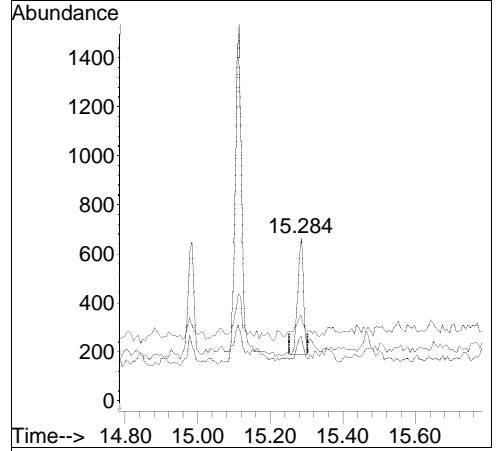
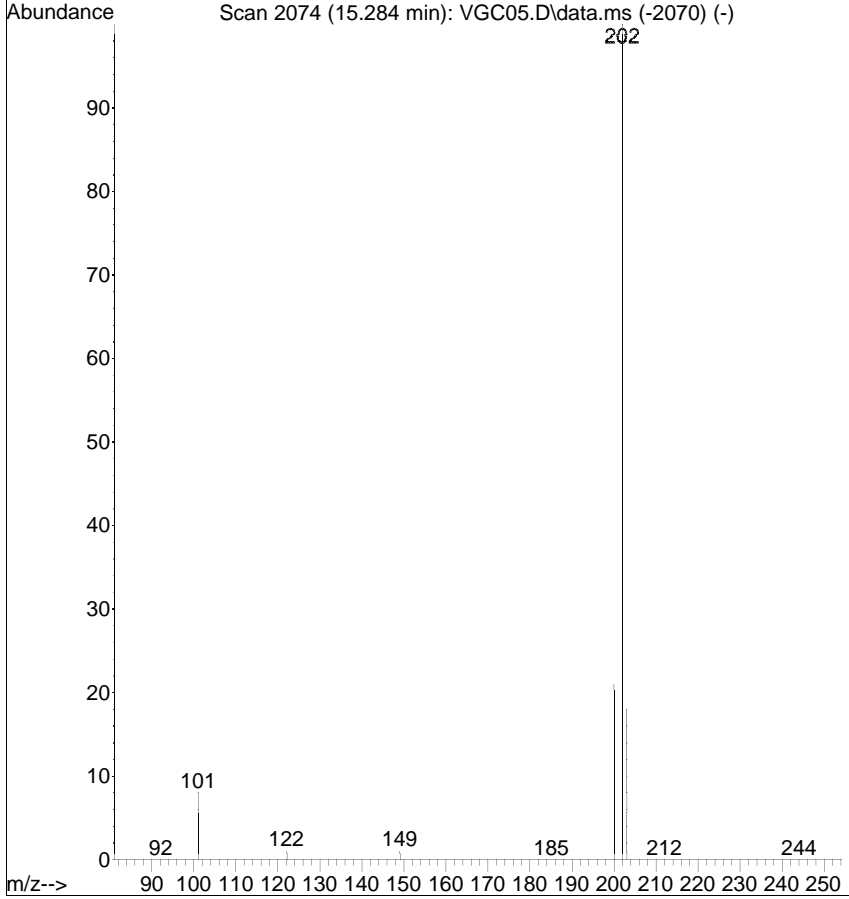


#19
 Pyrene
 Concen: 0.0069 ug/mL
 RT: 15.284 min Scan# 2073
 Delta R.T. 0.001 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

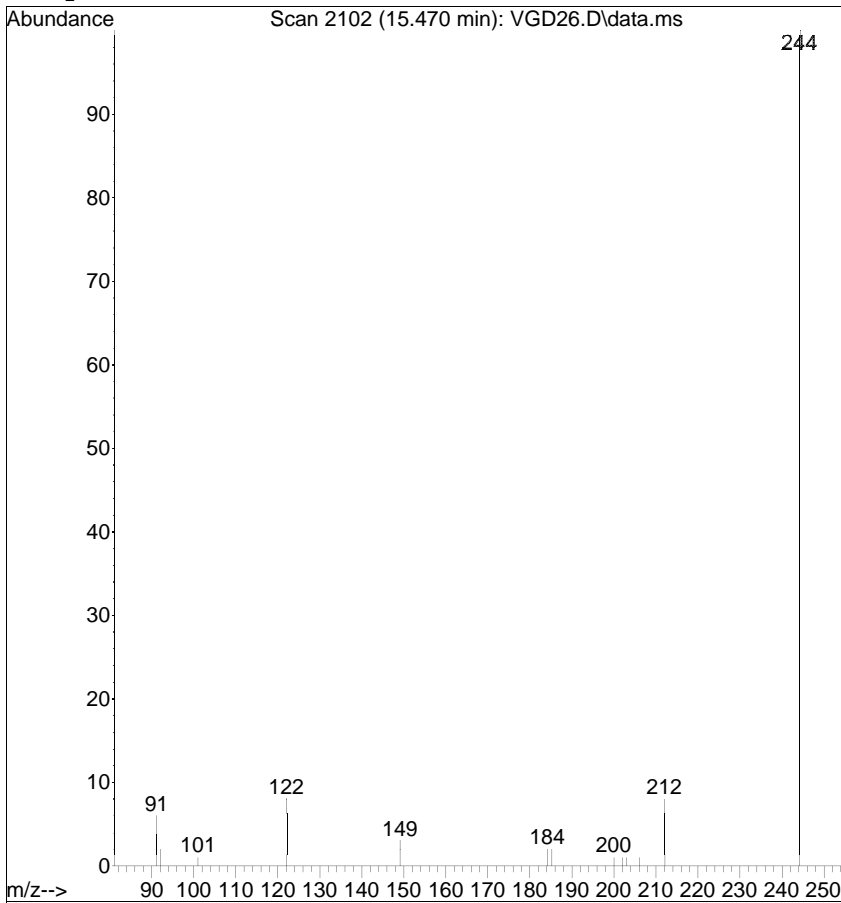
Tgt Ion	Resp	Lower	Upper
202	100		
200	39.5	1.1	41.1
203	52.8	0.0	37.7#



Ref

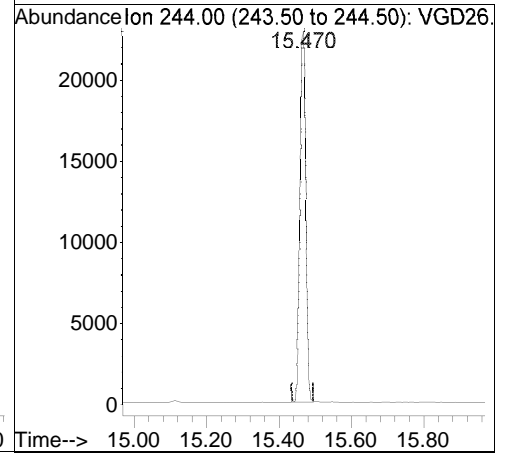


Raw

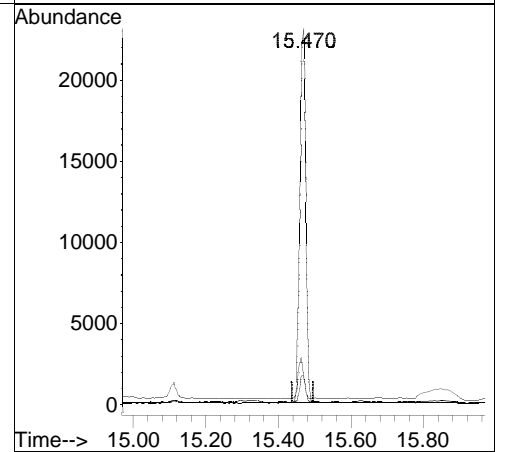
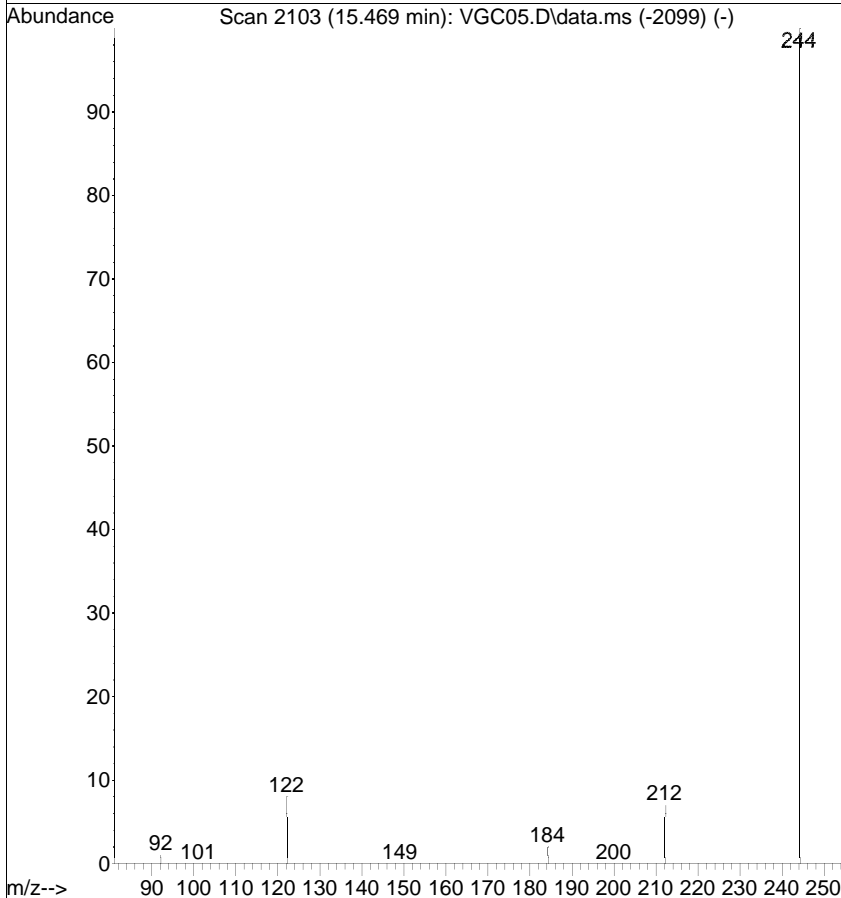


#20
 Terphenyl-d14
 Concen: 0.3771 ug/mL
 RT: 15.470 min Scan# 2102
 Delta R.T. 0.001 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

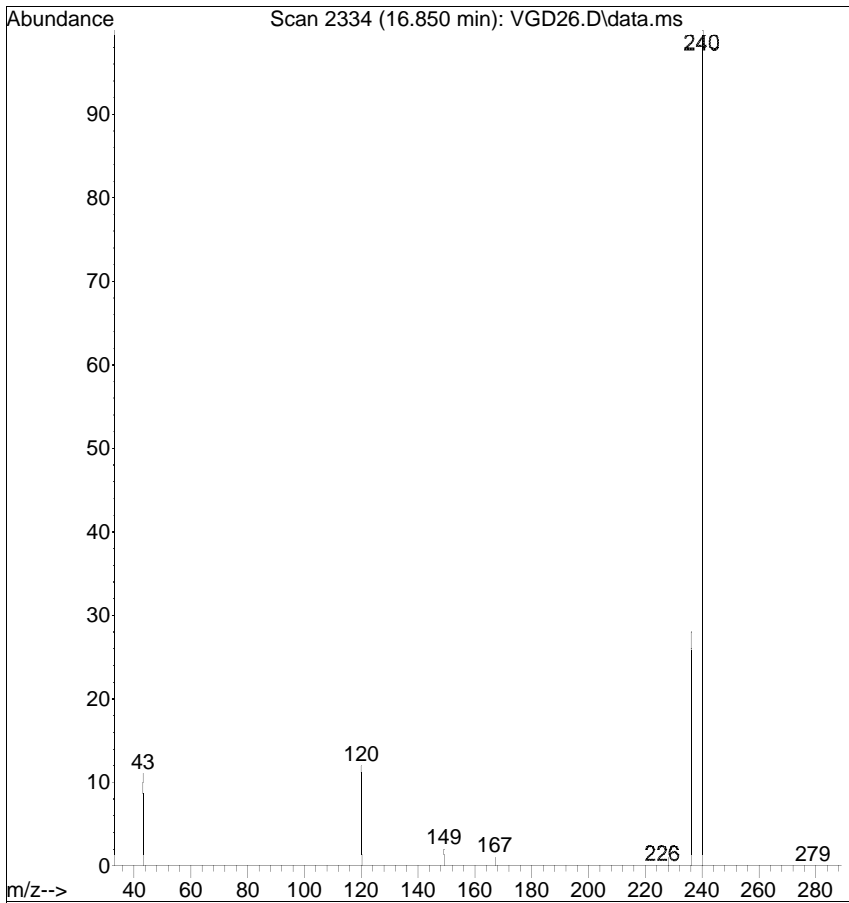
Tgt Ion	Ratio	Lower	Upper
244	100		
122	7.6	0.0	25.0
212	7.8	0.0	31.4



Ref

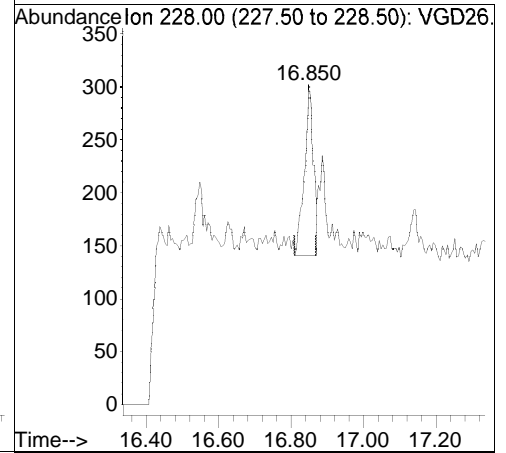


Raw

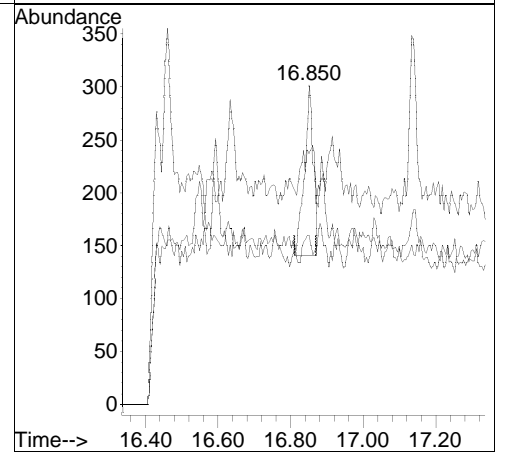
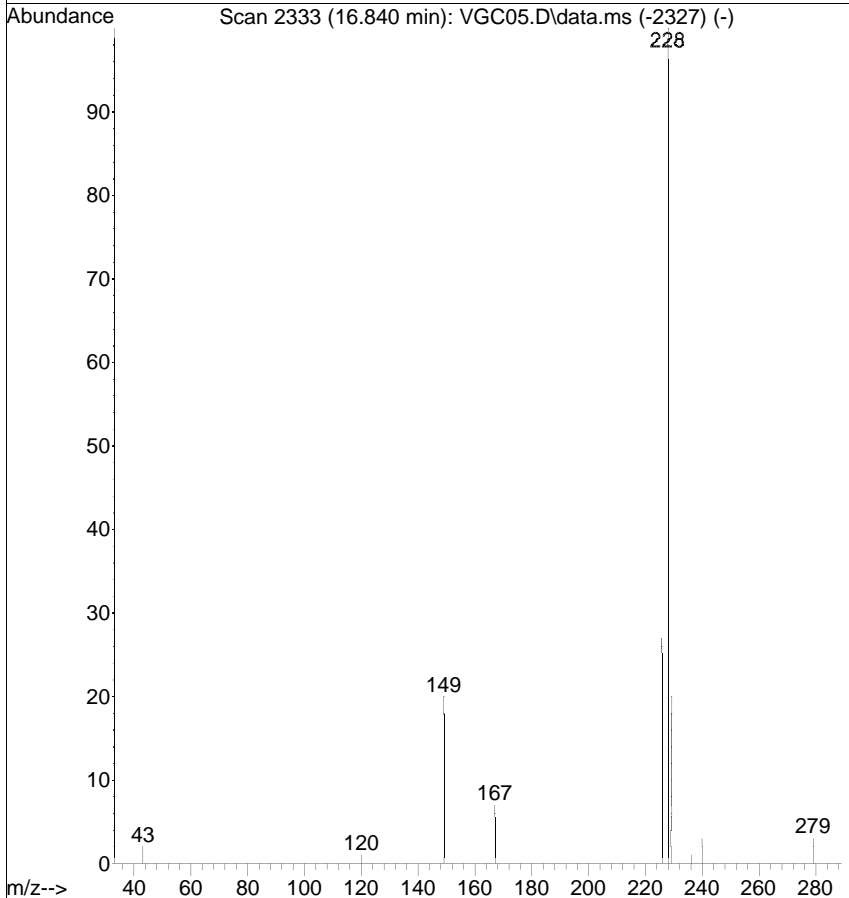


#21
 Benzo(a)anthracene
 Concen: 0.0038 ug/mL
 RT: 16.850 min Scan# 2334
 Delta R.T. 0.015 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

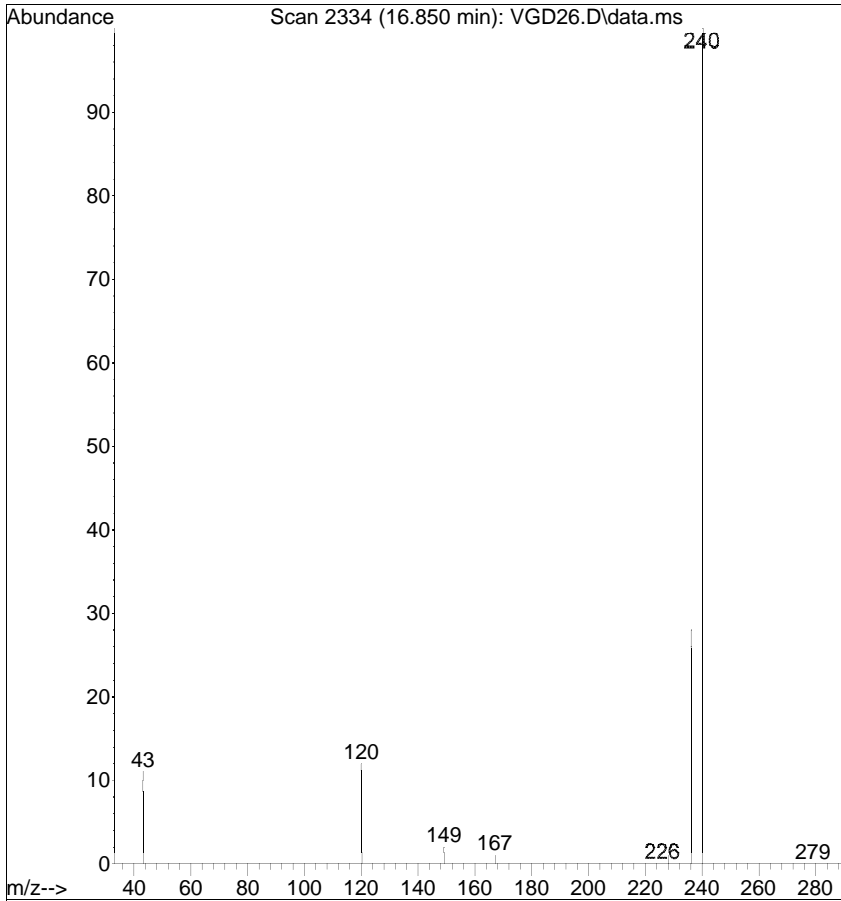
Tgt Ion	Ratio	Lower	Upper
228	100		
229	78.5	0.1	40.1#
226	53.0	9.3	49.3#



Ref

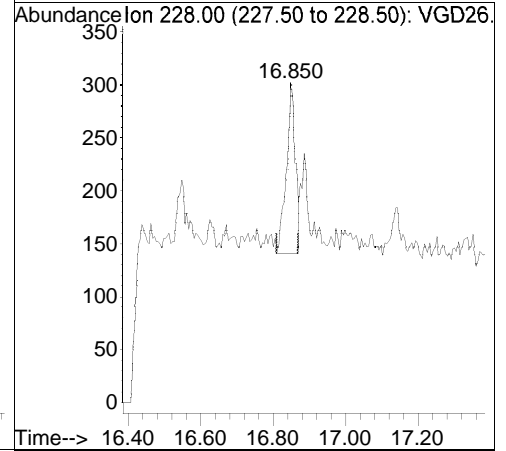


Raw

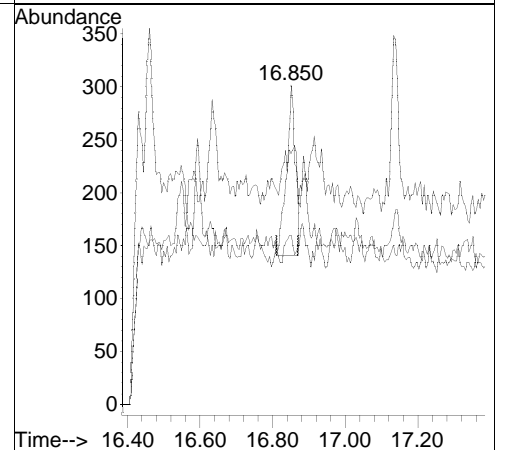
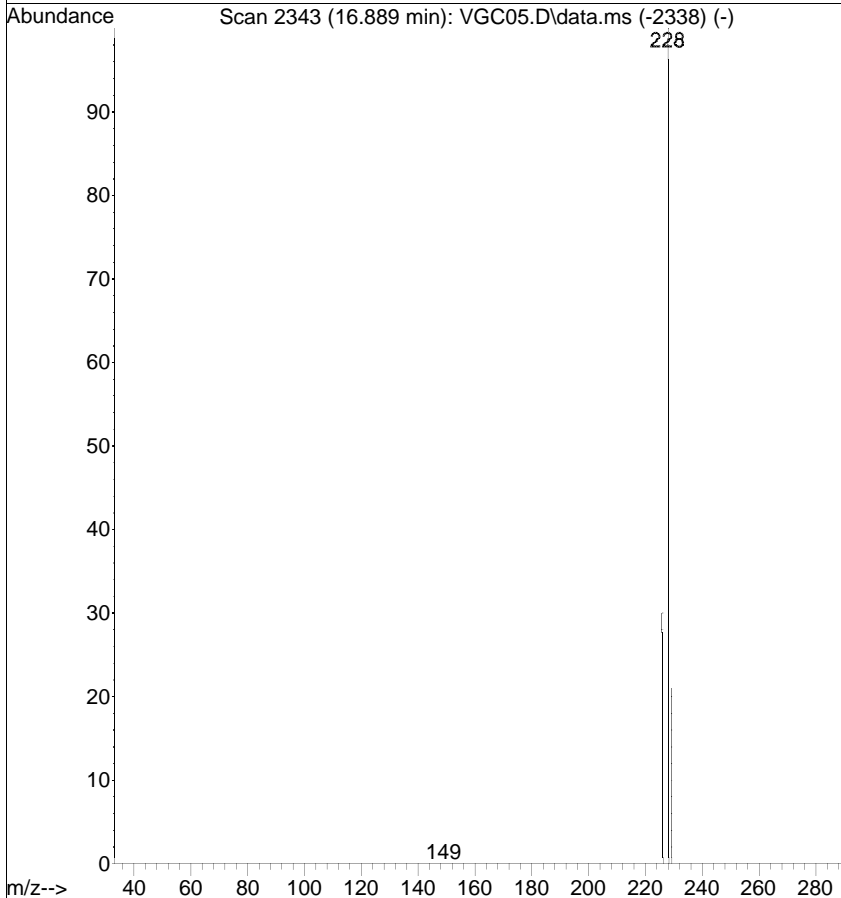


#22
 Chrysene
 Concen: 0.0041 ug/mL
 RT: 16.850 min Scan# 2334
 Delta R.T. -0.035 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

Tgt Ion	Ratio	Lower	Upper	Resp
228	100			270
226	53.0	13.4	53.4	
229	78.5	0.8	40.8	

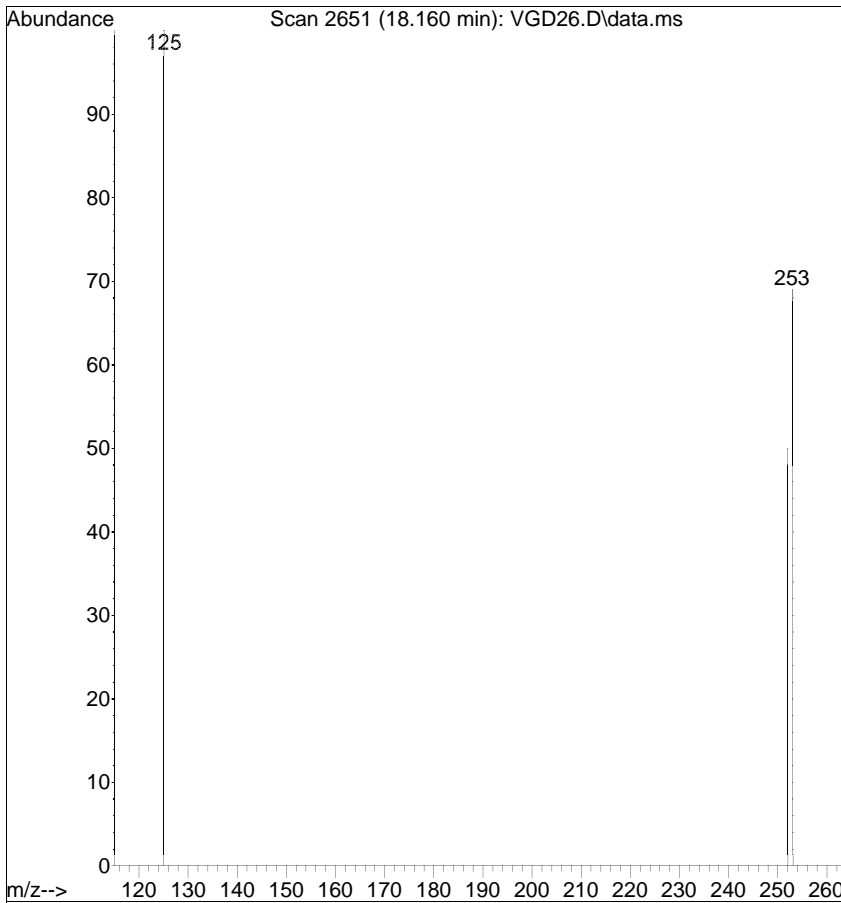


Ref



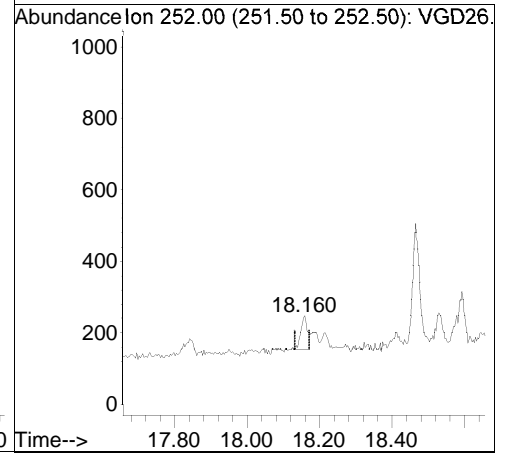
[Benzo(b)fluoranthene; <RL]

Raw

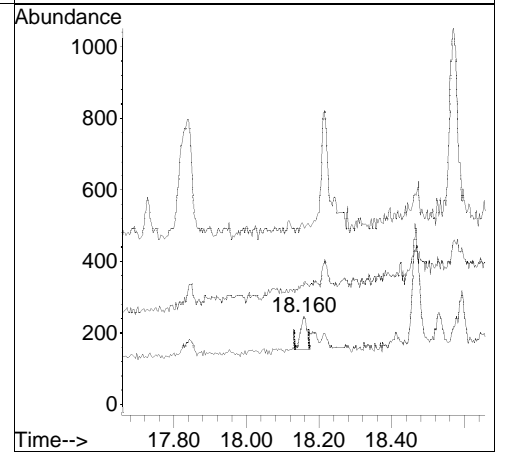
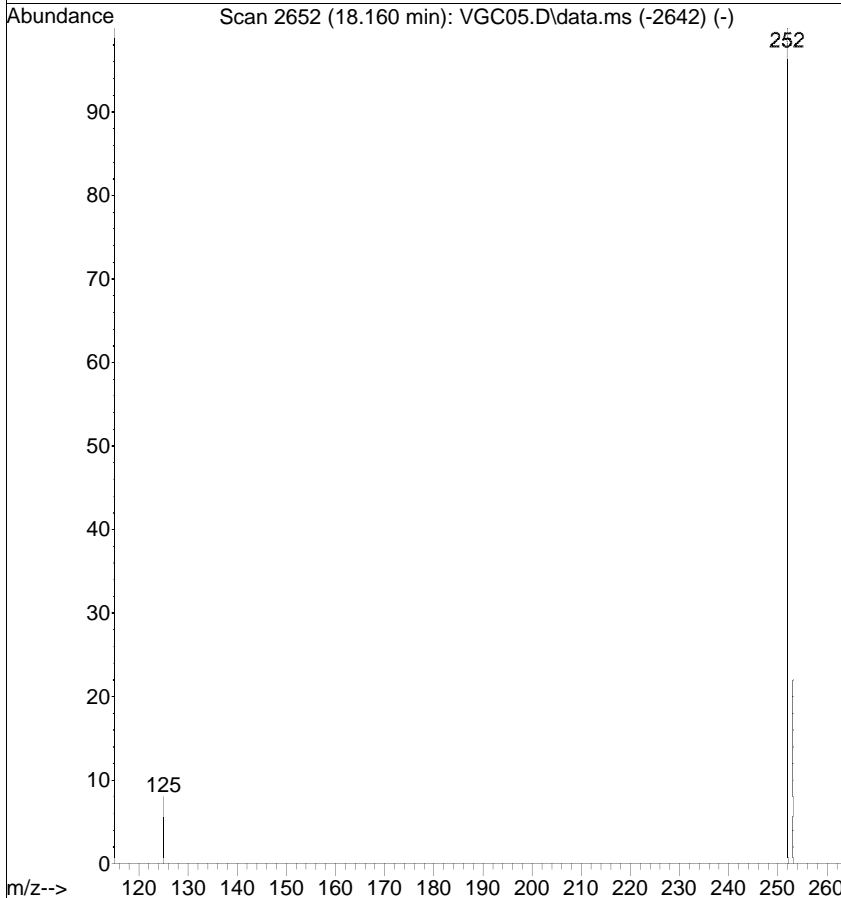


#24
 Benzo(b)fluoranthene
 Concen: 0.0026 ug/mL
 RT: 18.160 min Scan# 2651
 Delta R.T. 0.003 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

Tgt Ion	Ratio	Lower	Upper	Resp
252	100			121
253	138.6	1.0	41.0#	
125	200.4	0.0	20.9#	

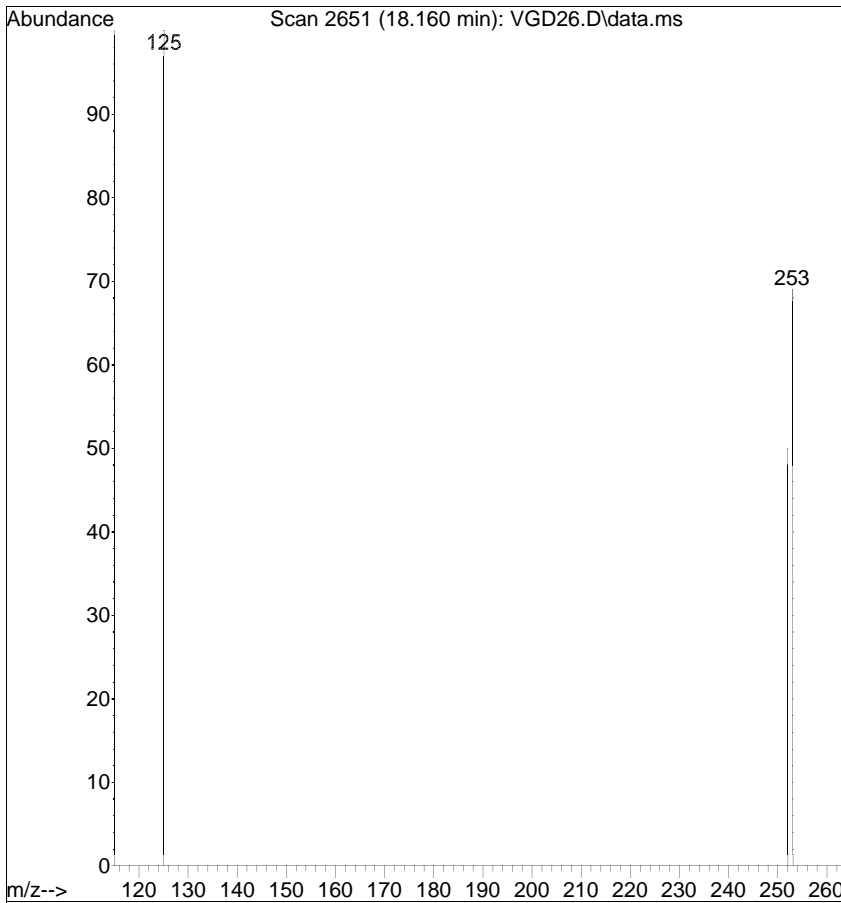


Ref



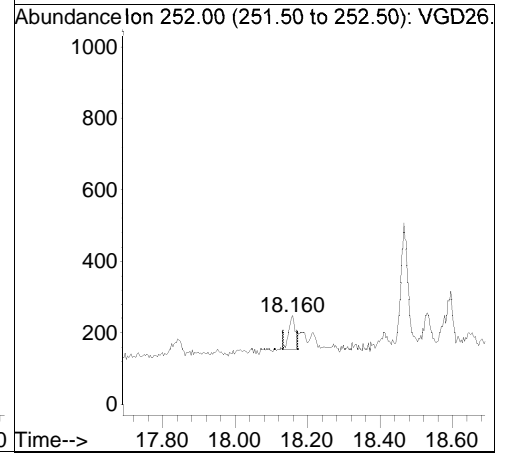
[Benzo(k)fluoranthene; <RL]

Raw

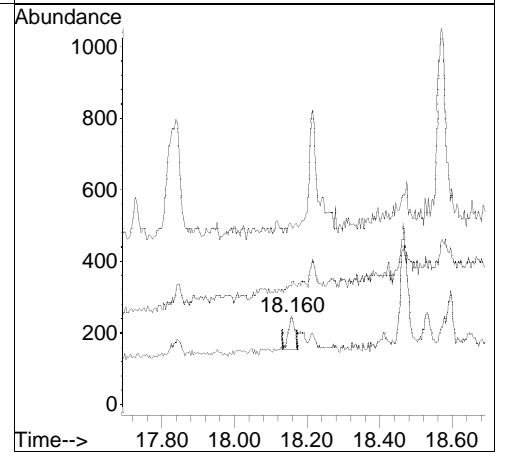
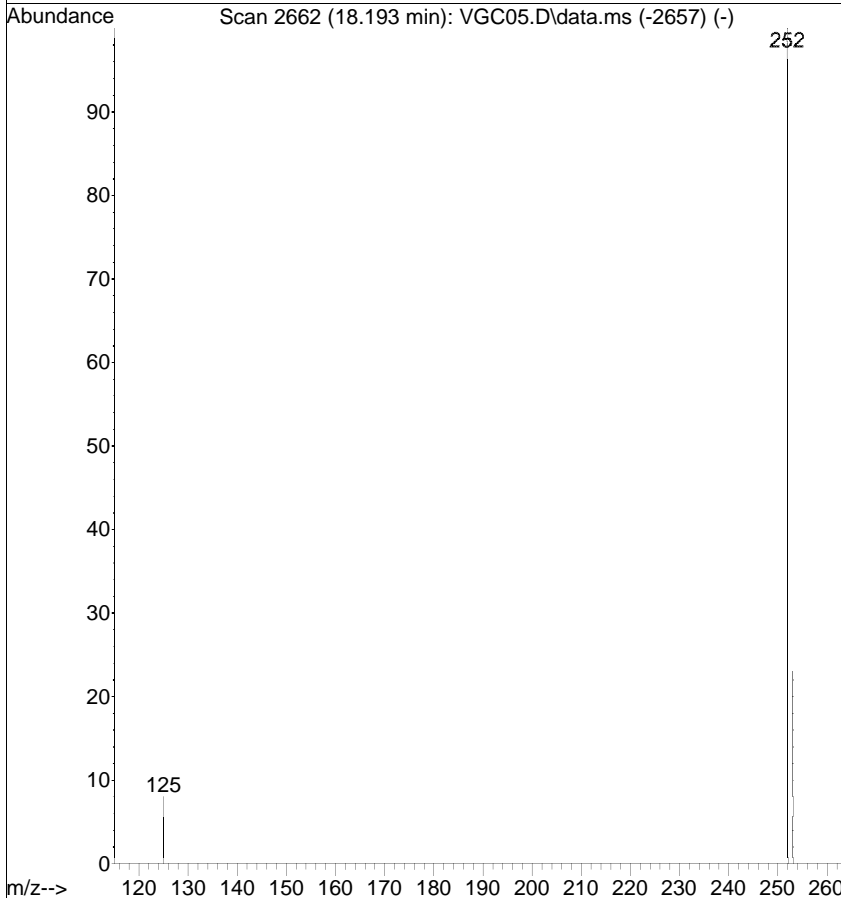


#25
 Benzo(k)fluoranthene
 Concen: 0.0024 ug/mL
 RT: 18.160 min Scan# 2651
 Delta R.T. -0.030 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

Tgt Ion	Ratio	Lower	Upper	Resp
252	100			121
253	138.6	1.1	41.1#	
125	200.4	0.0	21.1#	

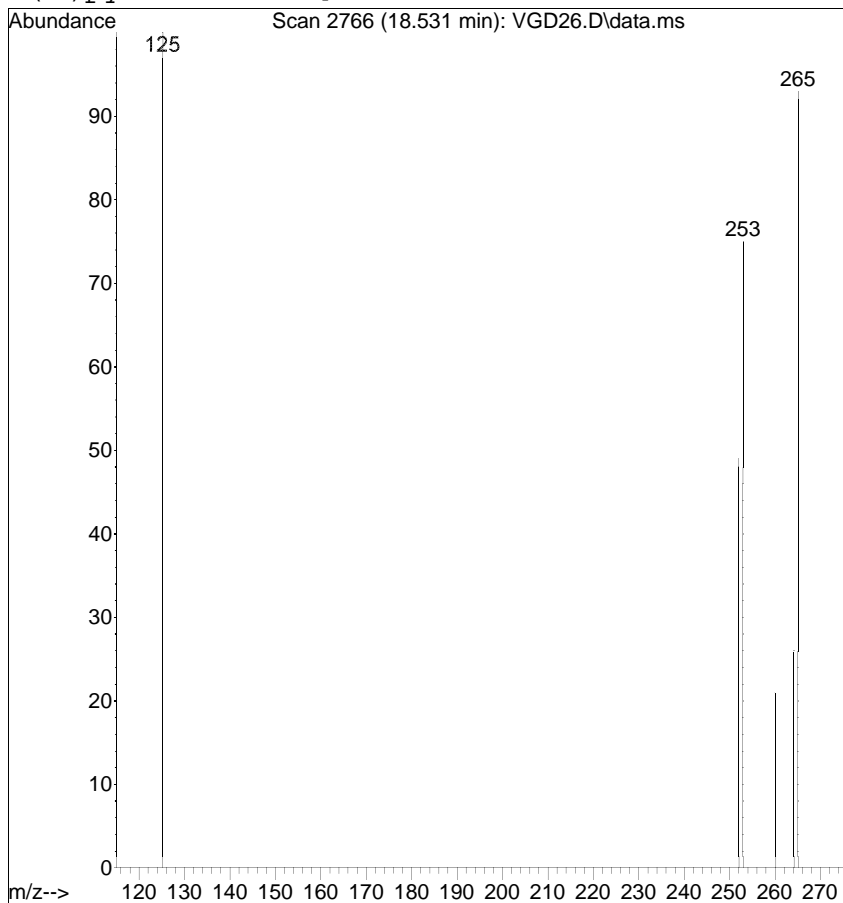


Ref



[Benzo(a)pyrene; <RL]

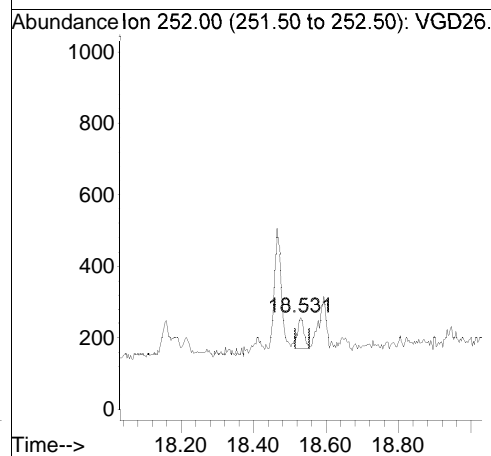
Raw



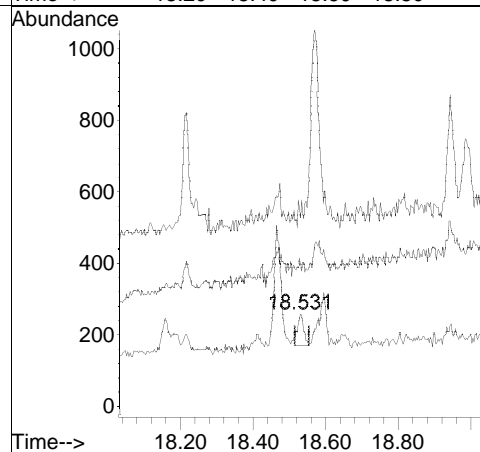
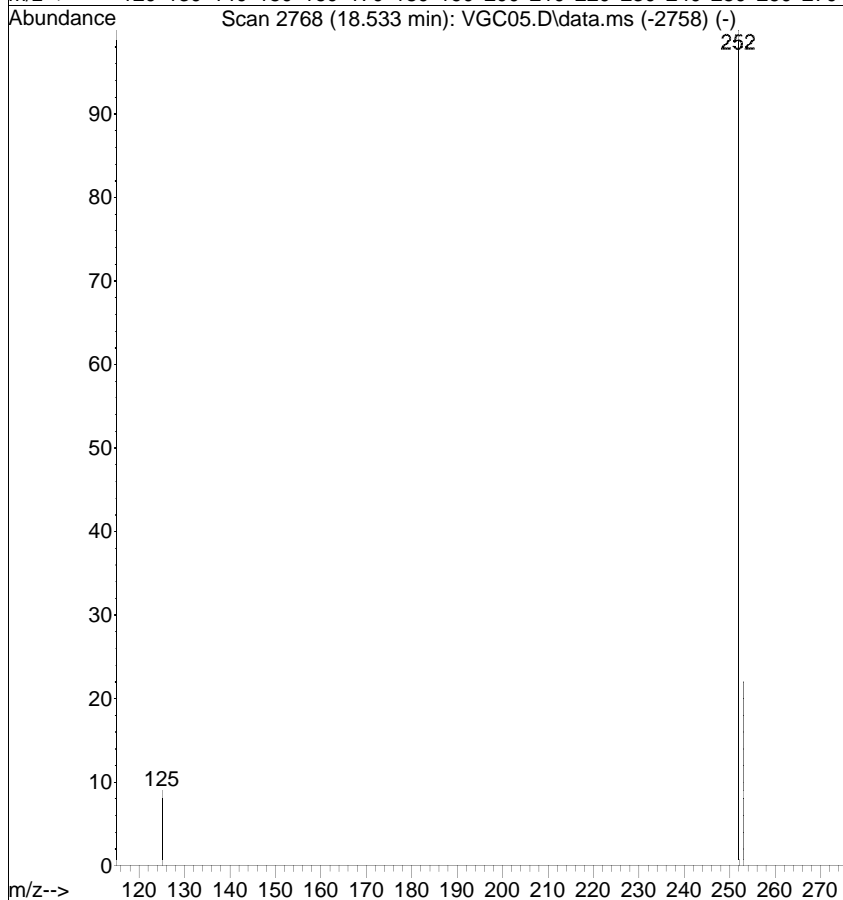
#26

Benzo(a)pyrene
 Concen: 0.0024 ug/mL
 RT: 18.531 min Scan# 2766
 Delta R.T. 0.001 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

Tgt Ion	Resp	Lower	Upper
252	103		
252	100		
253	152.9	3.4	43.4#
125	205.1	0.0	20.9#

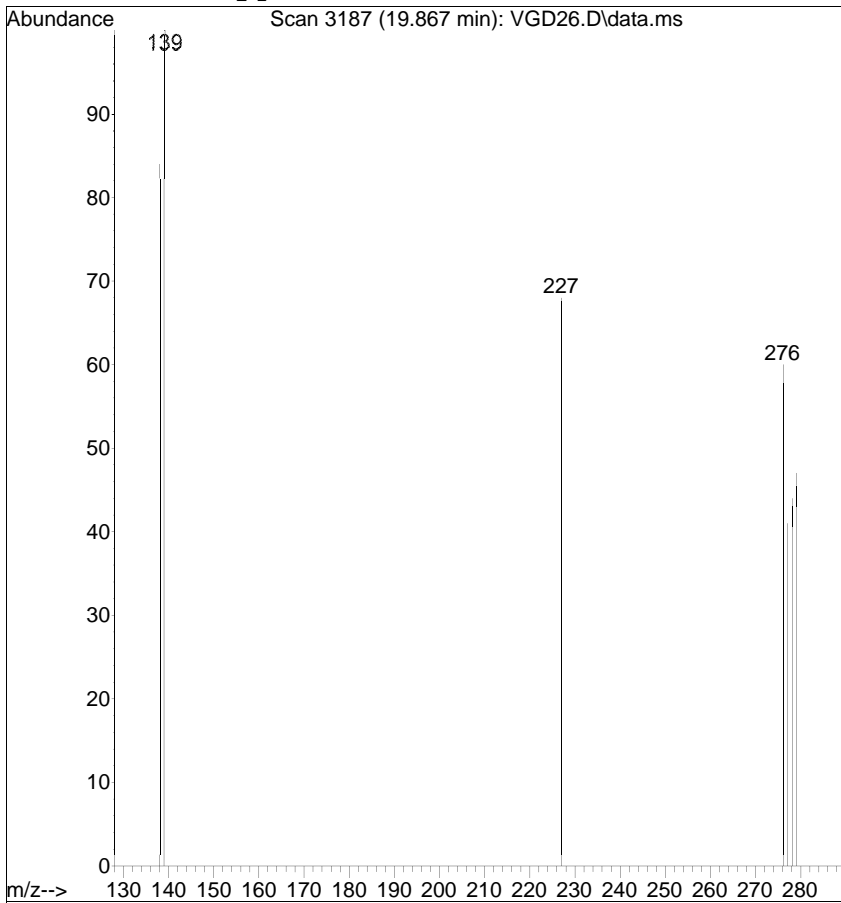


Ref



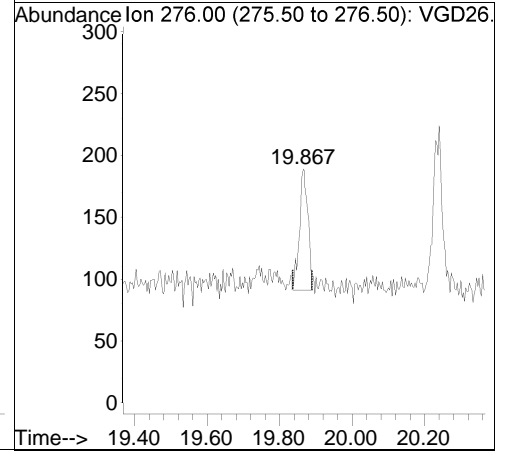
[Indeno(1,2,3-cd)pyrene; <RL]

Raw

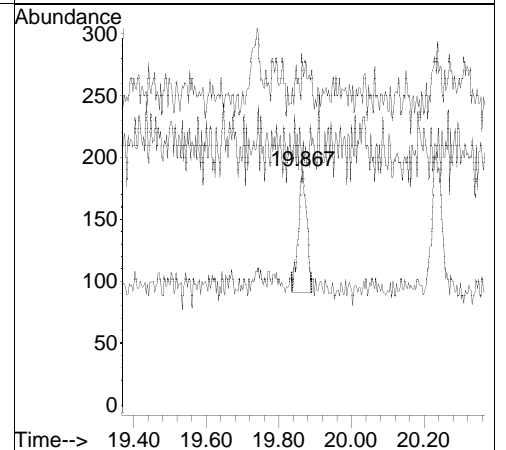
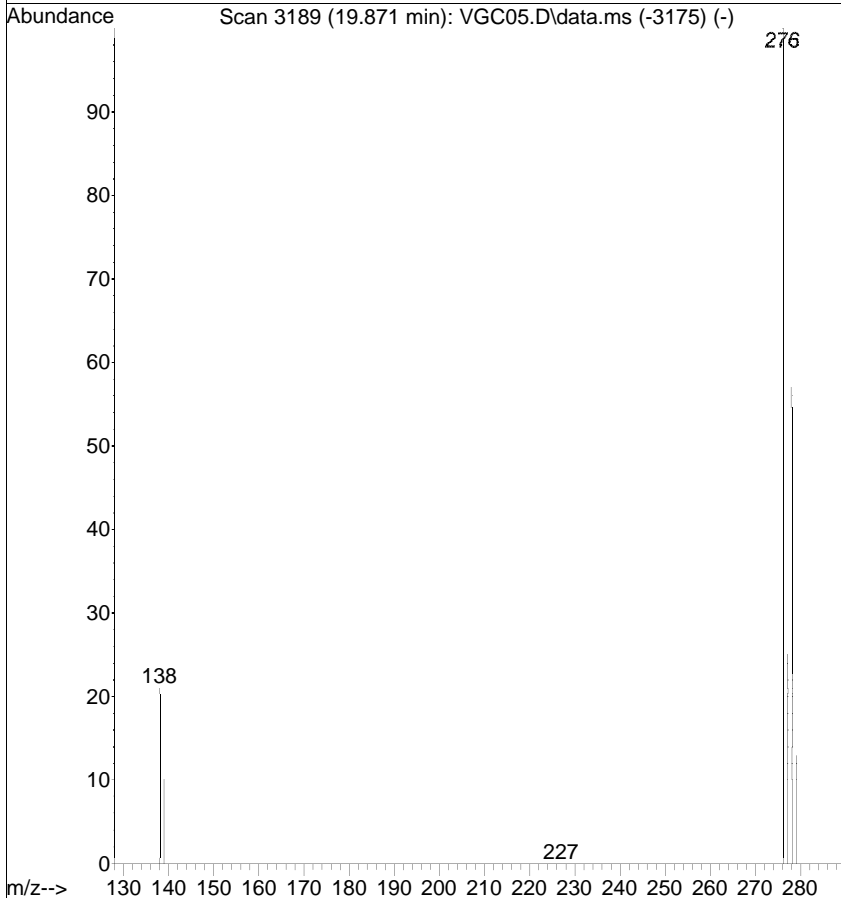


#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.0034 ug/mL
 RT: 19.867 min Scan# 3187
 Delta R.T. -0.000 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	140.2	0.0	23.1#
227	113.2	0.0	21.0#

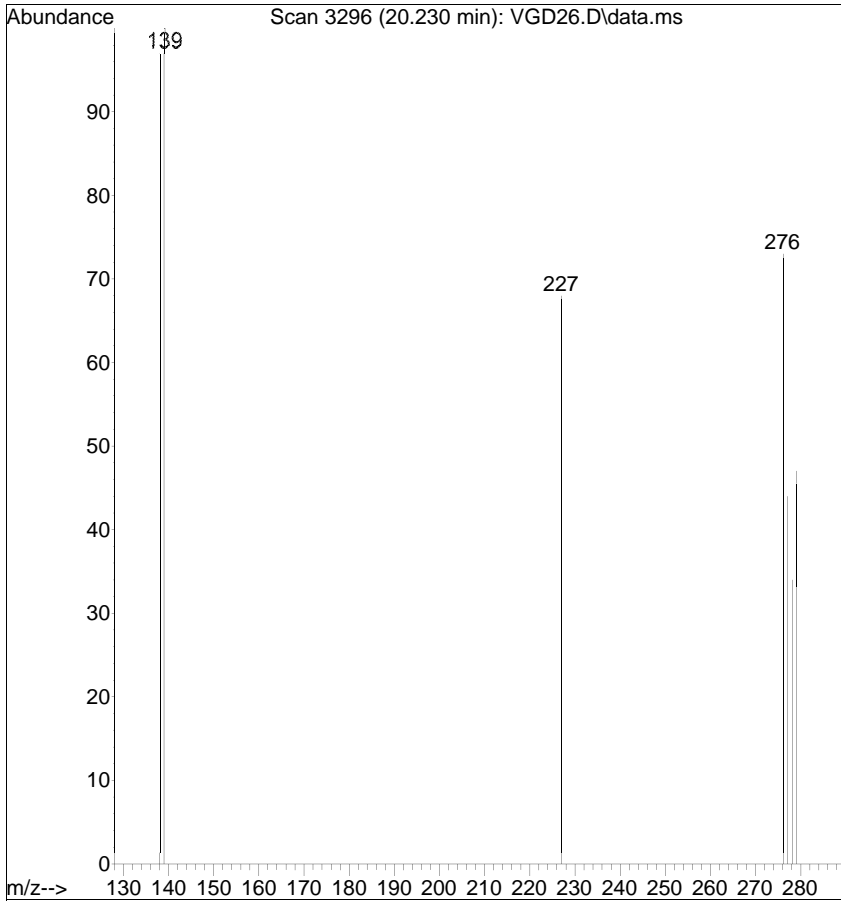


Ref



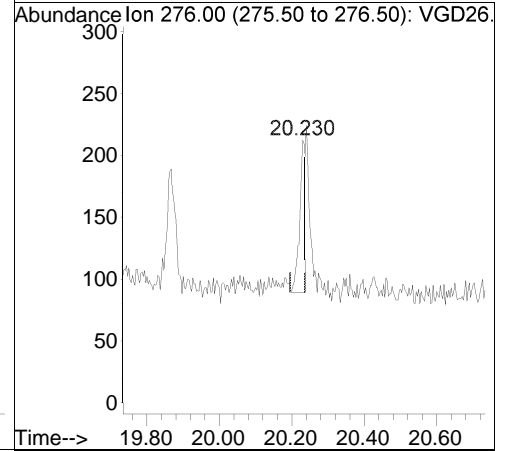
[Benzo(g,h,i)perylene; <RL]

Raw

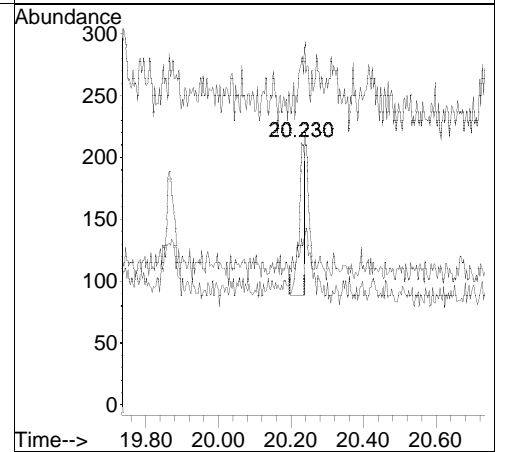
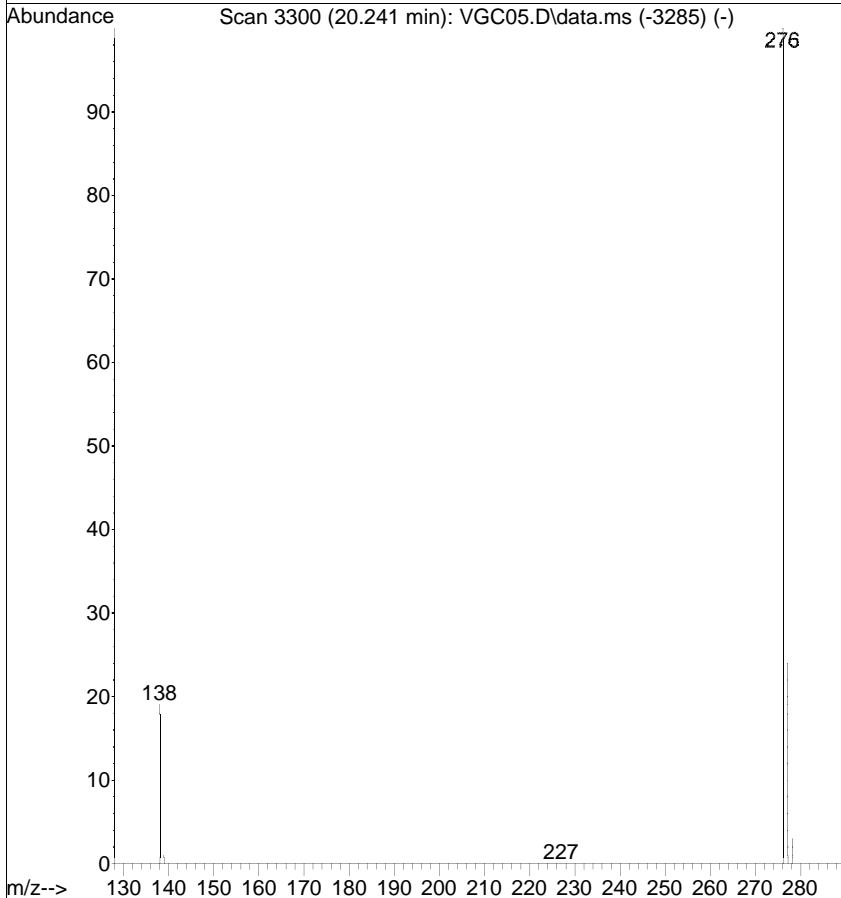


#29
 Benzo(g,h,i)perylene
 Concen: 0.0035 ug/mL
 RT: 20.230 min Scan# 3296
 Delta R.T. -0.004 min
 Lab File: VGD26.D
 Acq: 14 Jul 2018 12:25 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	133.0	0.0	22.1#
277	60.4	2.5	42.5#



Ref



QC Raw Data

ENTHALPY BLANK USER REPORT FOR 301314 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Lab ID : QC938867
 Seqnum : 528280080015.2 Matrix : Water
 File : vgd15 Batch : 261249 Time : 13-JUL-2018 18:33
 Cal : 528278537001 Caldate : 12-JUL-2018
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	Raw	Result	RL	Flags
Naphthalene	0	ND	0.1	u
Acenaphthylene	0	ND	0.1	u
Acenaphthene	0.004100	ND	0.1	u
Fluorene	0	ND	0.1	u
Phenanthrene	0.001900	ND	0.1	u
Anthracene	0.001900	ND	0.1	u
Fluoranthene	0.003200	ND	0.1	u
Pyrene	0.006800	ND	0.1	u
Benzo(a)anthracene	0.002300	ND	0.1	u
Chrysene	0.002500	ND	0.1	u
Benzo(b)fluoranthene	0.003000	ND	0.1	u
Benzo(k)fluoranthene	0.002800	ND	0.1	u
Benzo(a)pyrene	0.003300	ND	0.1	u
Indeno(1,2,3-cd)pyrene	0	ND	0.1	u
Dibenz(a,h)anthracene	0	ND	0.1	u
Benzo(g,h,i)perylene	0	ND	0.1	u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.8614	1.000	0.8614	86	48-124	u
2-Fluorobiphenyl	0.8359	1.000	0.8359	84	51-120	u
Terphenyl-d14	0.9835	1.000	0.9835	98	25-120	u

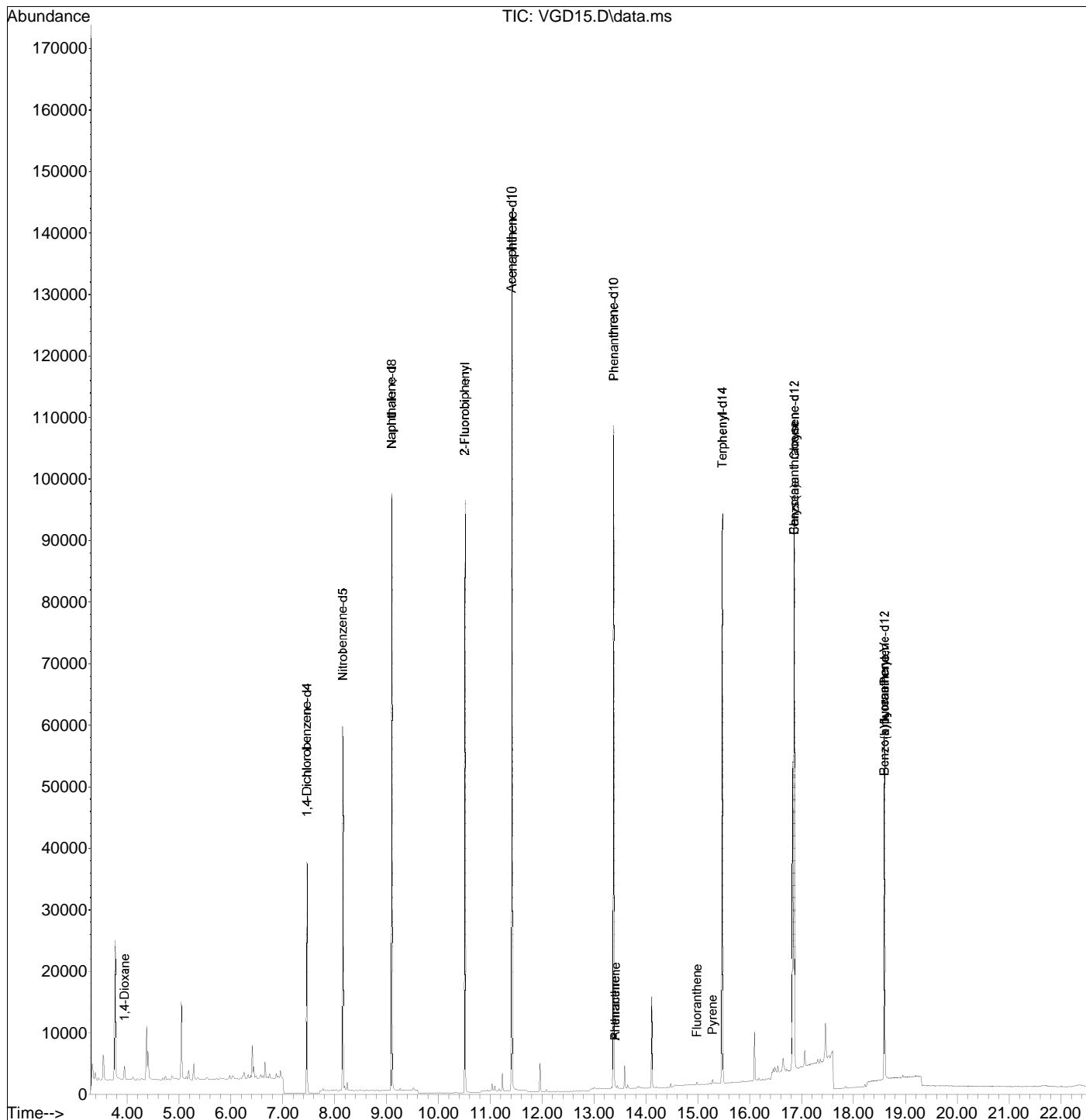
ISTD (CCV vgd06)	CCV Area	BLANK Area	%Drift	CCV RT	BLANK RT	Drift
Naphthalene-d8	84858	80262	-5.42	9.10	9.10	0.00
Acenaphthene-d10	52953	52951	0.00	11.41	11.41	0.00
Phenanthrene-d10	98761	95910	-2.89	13.38	13.38	0.00
Chrysene-d12	80453	72230	-10.22	16.85	16.86	0.01
Perylene-d12	74224	43636	-41.21	18.59	18.60	0.01

Analyst: JW1 Date: 07/17/18 Reviewer: LW Date: 07/17/18

u=use

Data Path : G:\csinput.net\DATA\071318\
 Data File : VGD15.D
 Acq On : 13 Jul 2018 6:33 pm
 Operator :
 Sample : MB, QC938867
 Misc : 261249,1,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 13 18:56:24 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\071318\
 Data File : VGD15.D
 Acq On : 13 Jul 2018 6:33 pm
 Operator :
 Sample : MB, QC938867
 Misc : 261249,1,
 ALS Vial : 15 Sample Multiplier: 1

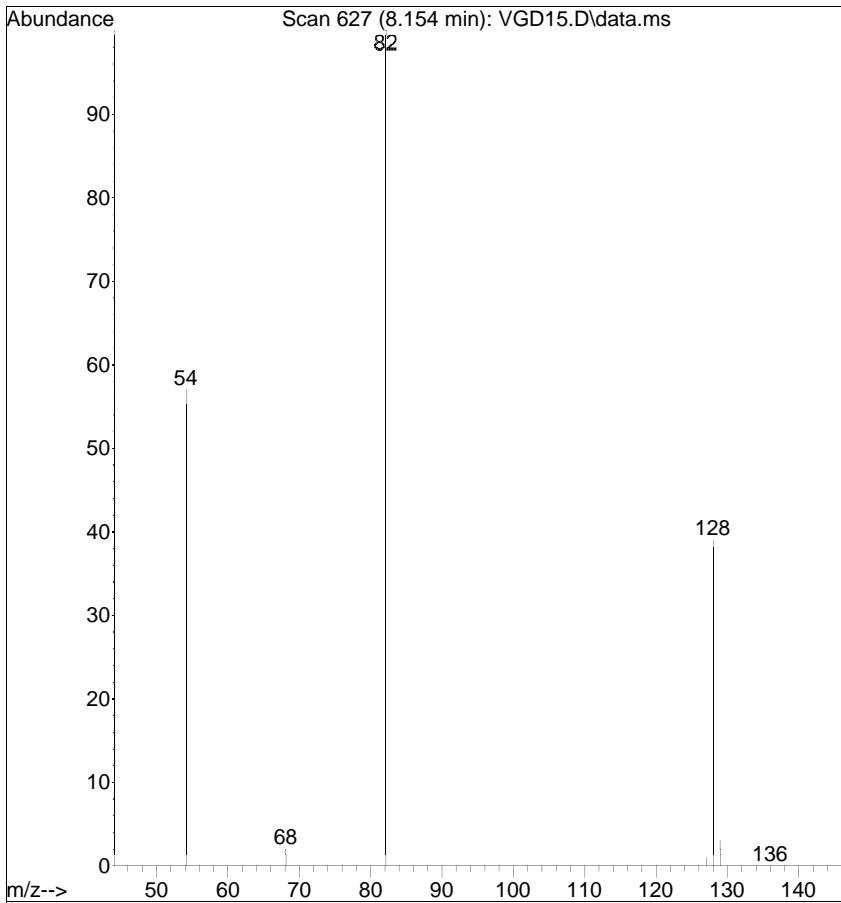
Quant Time: Jul 13 18:56:24 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.461	152	23322	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.098	136	80262	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.414	164	52951	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.376	188	95910	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	72230	1.0000	ug/mL	0.00
23) Perylene-d12	18.597	264	43636	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.952	88	280	0.3803	ug/mL	# 61
4) Nitrobenzene-d5	8.154	82	28571	0.8614	ug/mL	80
5) Naphthalene	0.000	128	0	N.D.		
6) 2-Methylnaphthalene	0.000	142	0	N.D.		
7) 1-Methylnaphthalene	0.000	142	0	N.D.		
9) 2-Fluorobiphenyl	10.510	172	66100	0.8359	ug/mL	98
10) Acenaphthylene	0.000	152	0	N.D.		
11) Acenaphthene	11.414	154	215	0.0041	ug/mL	# 40
12) Fluorene	0.000	166	0	N.D.		
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.405	178	171	0.0019	ug/mL	# 36
16) Anthracene	13.405	178	171	0.0019	ug/mL	# 37
17) Fluoranthene	14.983	202	342	0.0032	ug/mL	# 40
19) Pyrene	15.284	202	655	0.0068	ug/mL	71
20) Terphenyl-d14	15.469	244	80113	0.9835	ug/mL	90
21) Benzo(a)anthracene	16.850	228	204	0.0023	ug/mL	# 52
22) Chrysene	16.850	228	204	0.0025	ug/mL	# 60
24) Benzo(b)fluoranthene	18.591	252	157	0.0030	ug/mL	# 1
25) Benzo(k)fluoranthene	18.591	252	157	0.0028	ug/mL	# 1
26) Benzo(a)pyrene	18.591	252	157	0.0033	ug/mL	# 1
27) Indeno(1,2,3-cd)pyrene	0.000	276	0	N.D.		
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
29) Benzo(g,h,i)perylene	0.000	276	0	N.D.		

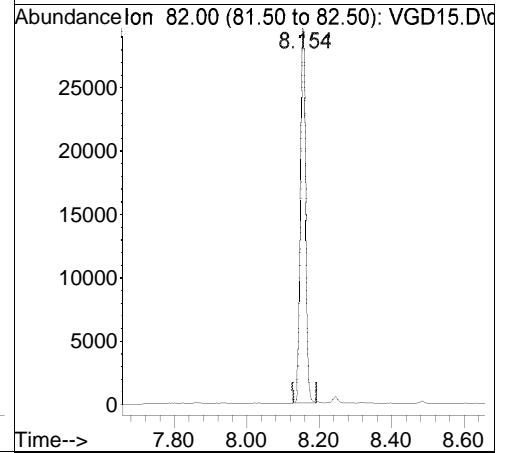
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

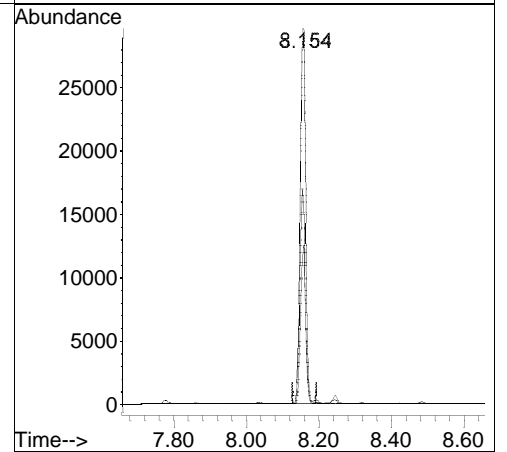
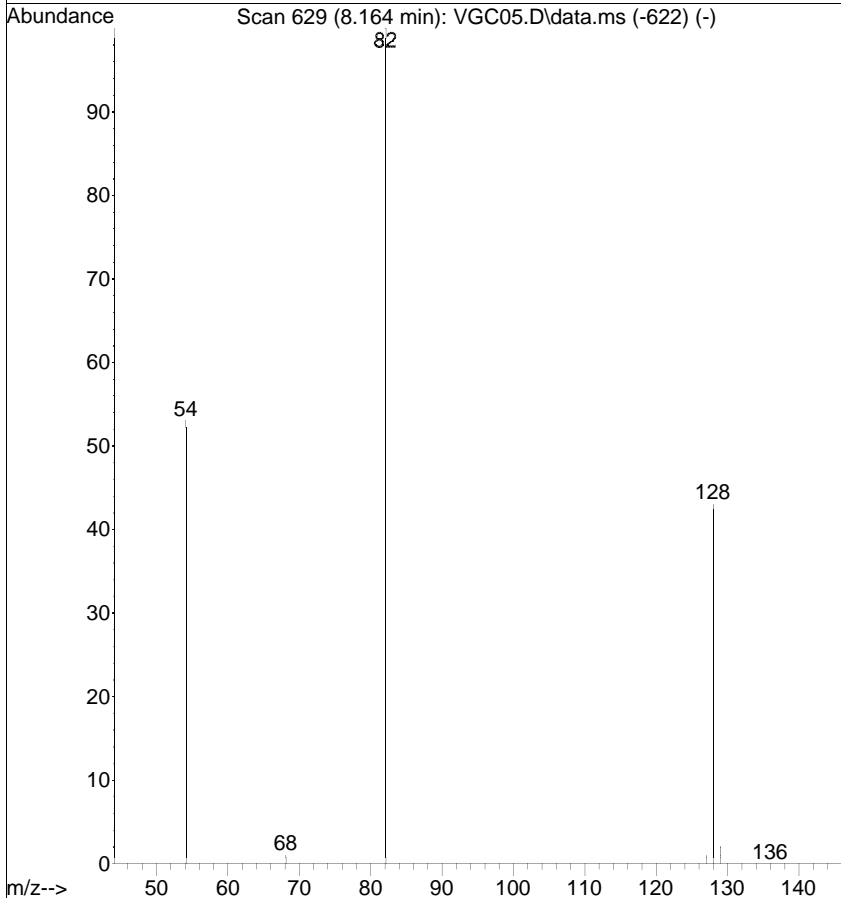


#4
 Nitrobenzene-d5
 Concen: 0.8614 ug/mL
 RT: 8.154 min Scan# 627
 Delta R.T. -0.007 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

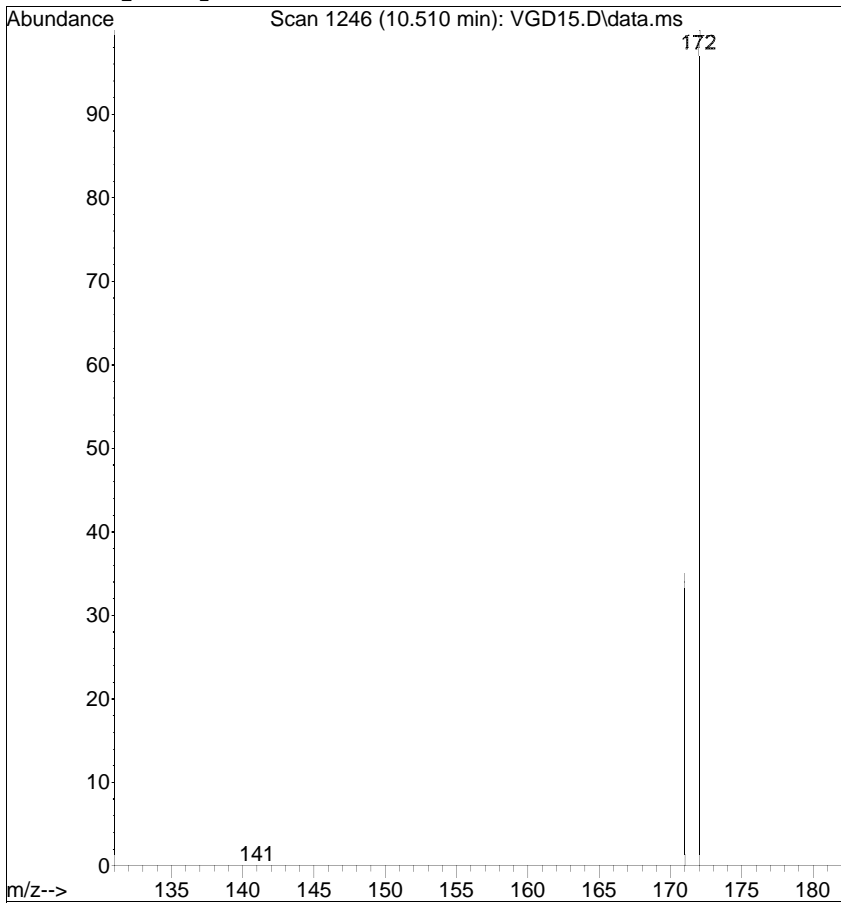
Tgt Ion	Resp	Lower	Upper
82	28571		
128	38.7	10.5	50.5
54	57.5	56.2	96.2



Ref

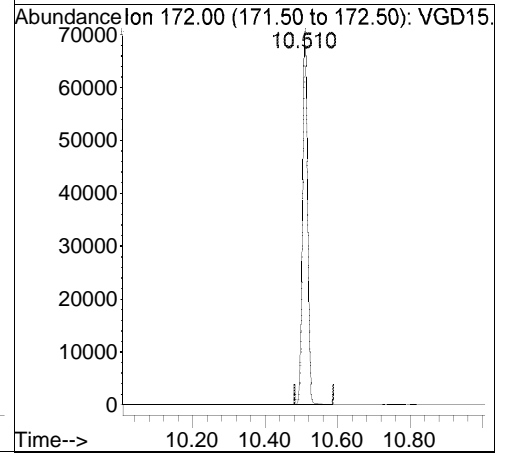


Raw

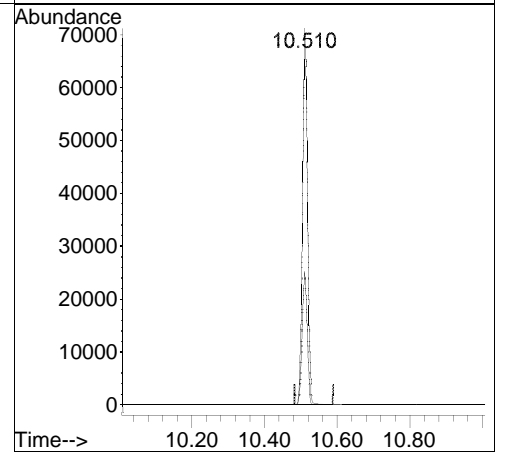
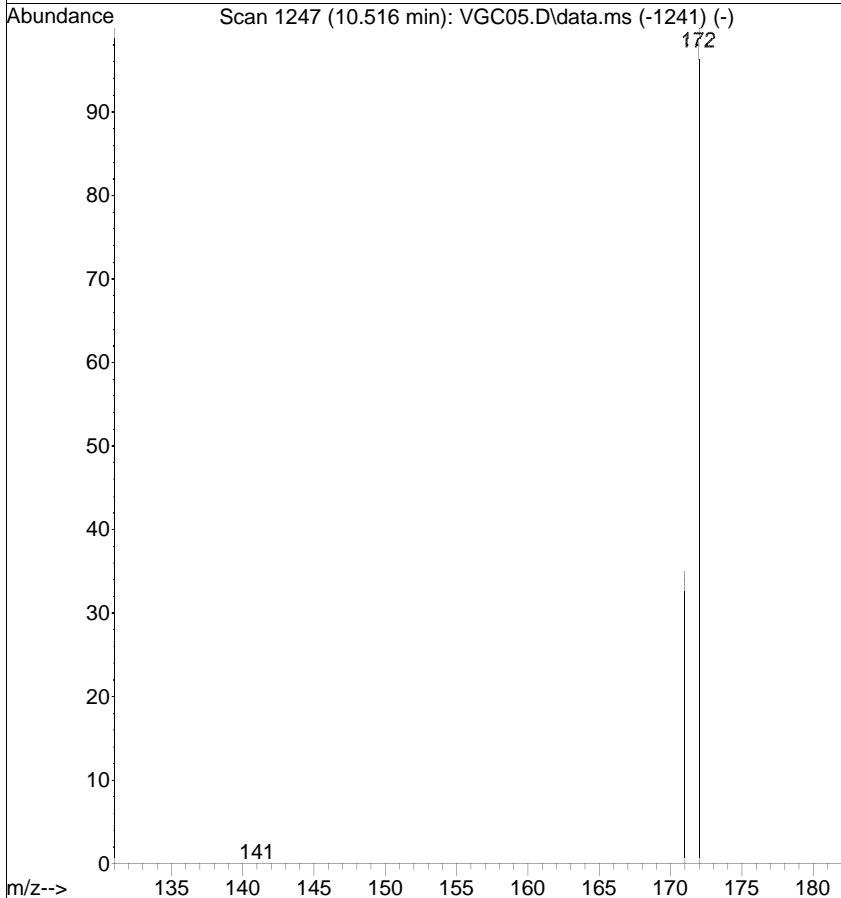


#9
2-Fluorobiphenyl
Concen: 0.8359 ug/mL
RT: 10.510 min Scan# 1246
Delta R.T. -0.001 min
Lab File: VGD15.D
Acq: 13 Jul 2018 6:33 pm

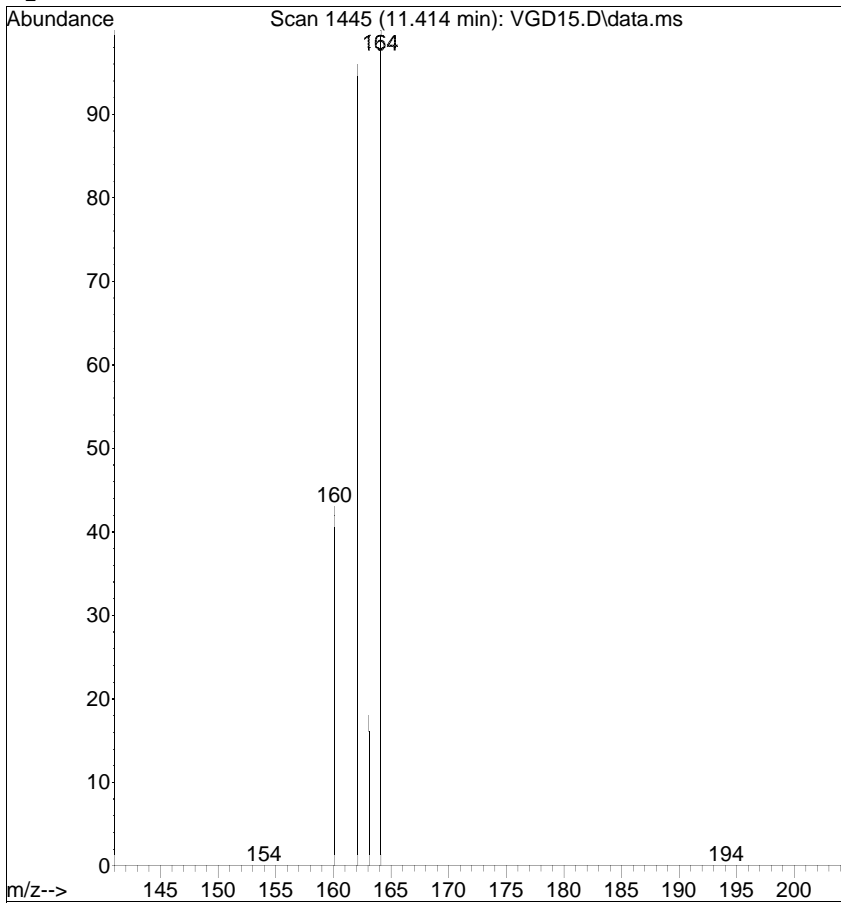
Tgt Ion	Resp	Lower	Upper
172	66100	100	
171	35.4	14.4	54.4



Ref

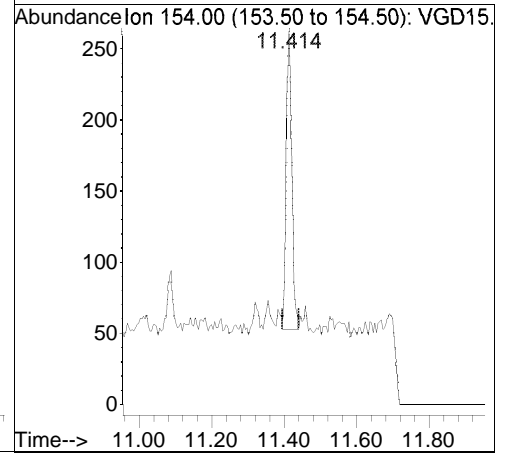


Raw

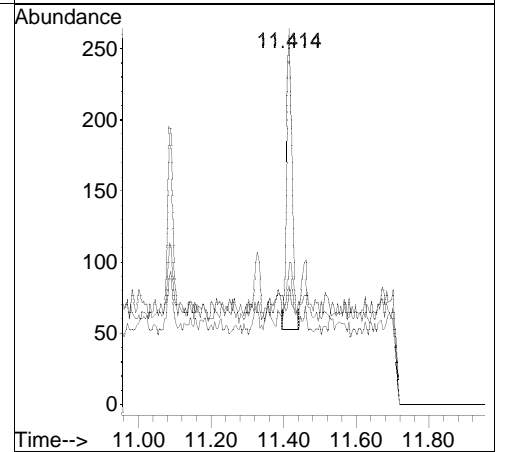
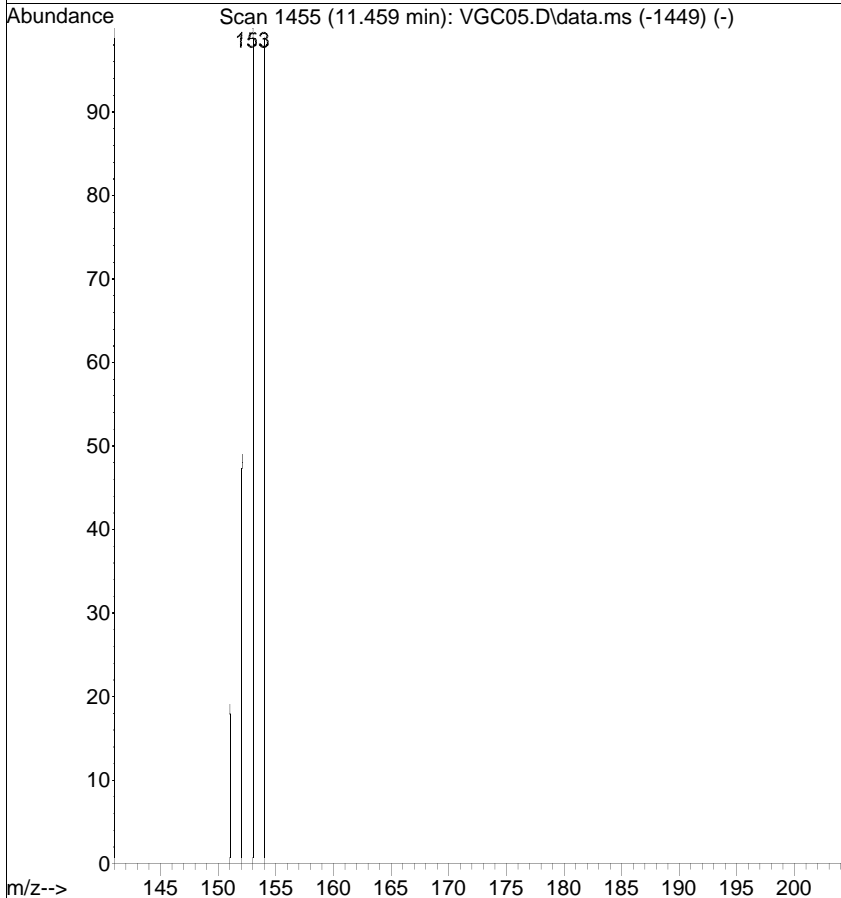


#11
 Acenaphthene
 Concen: 0.0041 ug/mL
 RT: 11.414 min Scan# 1445
 Delta R.T. -0.044 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

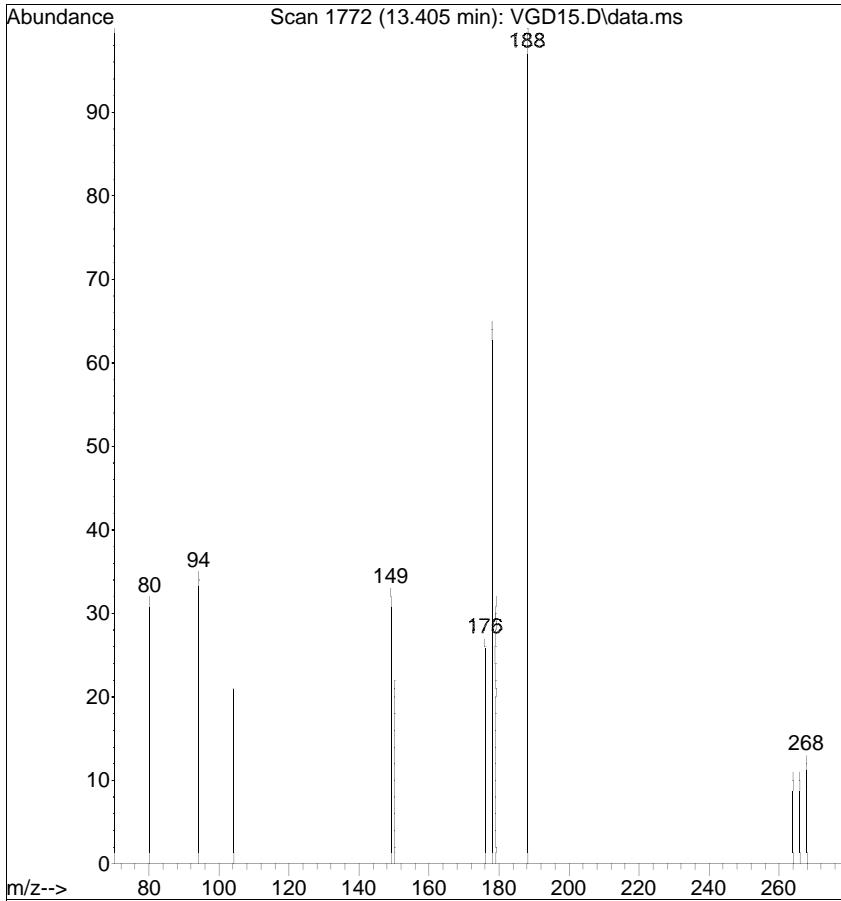
Tgt Ion	Resp	Lower	Upper
154	100		
152	37.9	35.4	75.4
153	31.8	96.8	136.8#



Ref

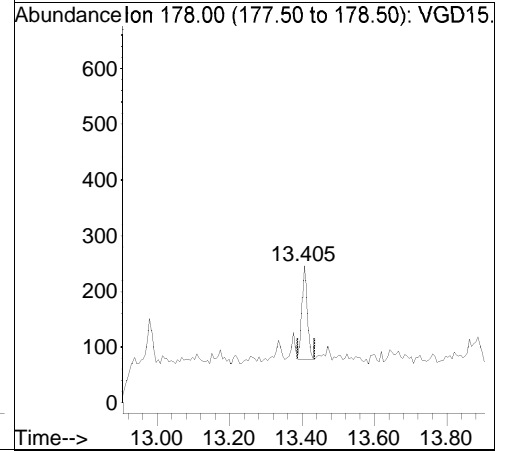


Raw

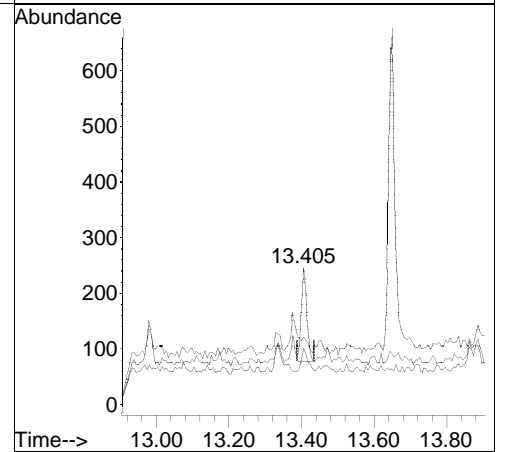
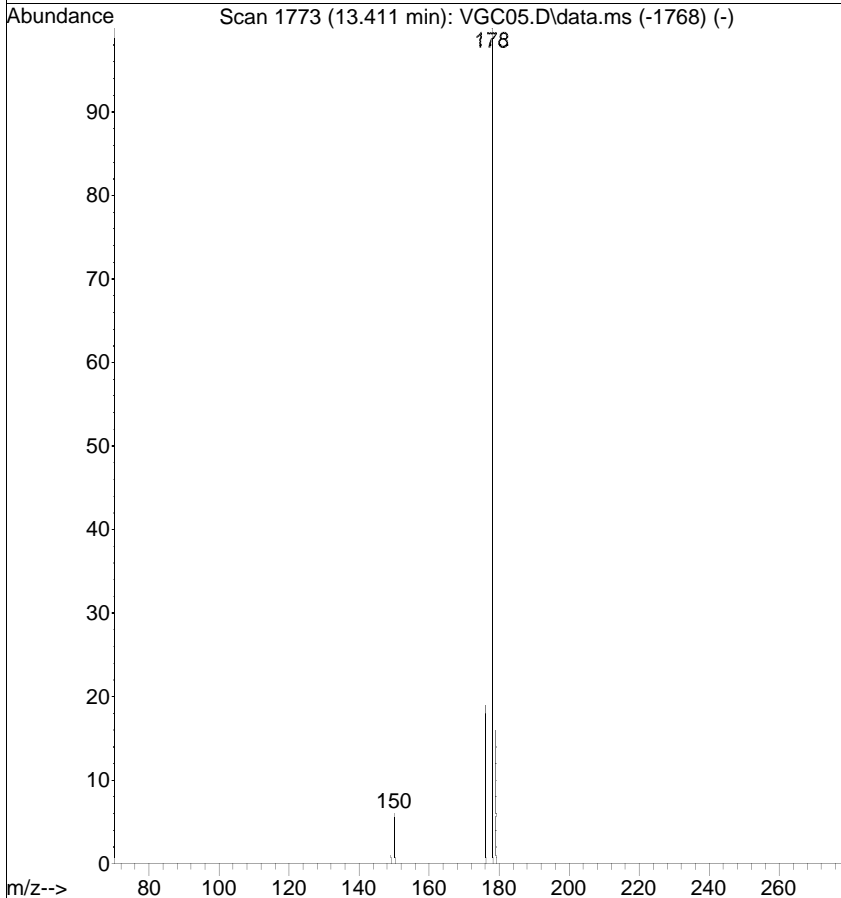


#15
 Phenanthrene
 Concen: 0.0019 ug/mL
 RT: 13.405 min Scan# 1772
 Delta R.T. -0.001 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

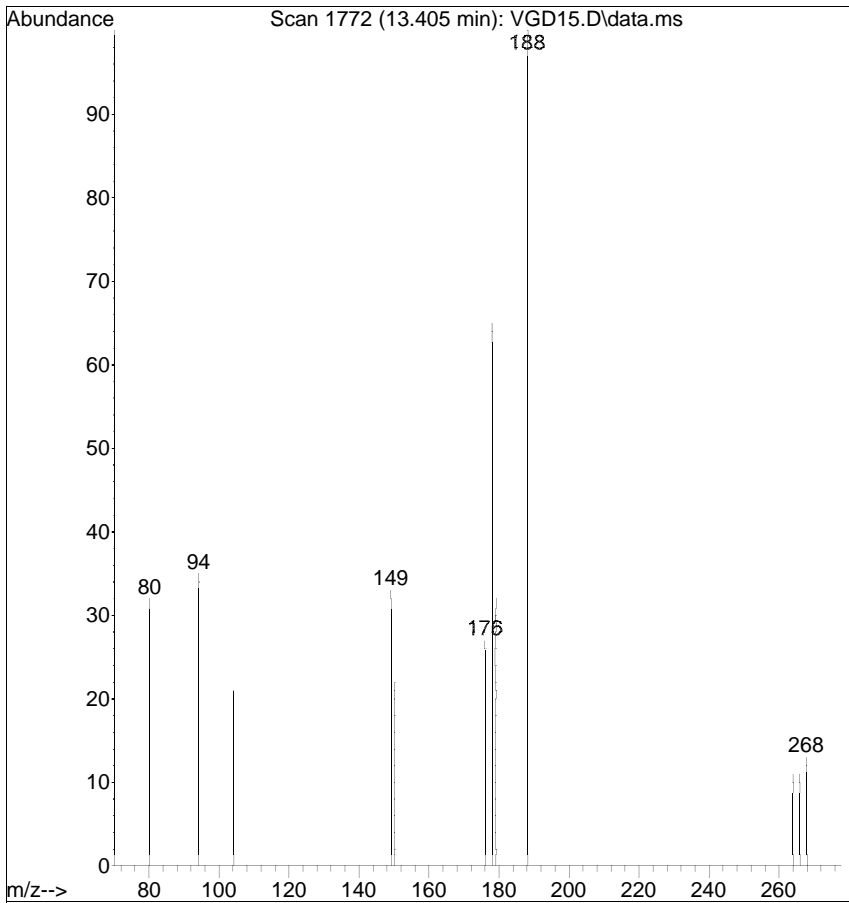
Tgt Ion	Ratio	Lower	Upper
178	100		
179	49.4	0.0	35.0#
176	40.8	0.0	38.9#



Ref

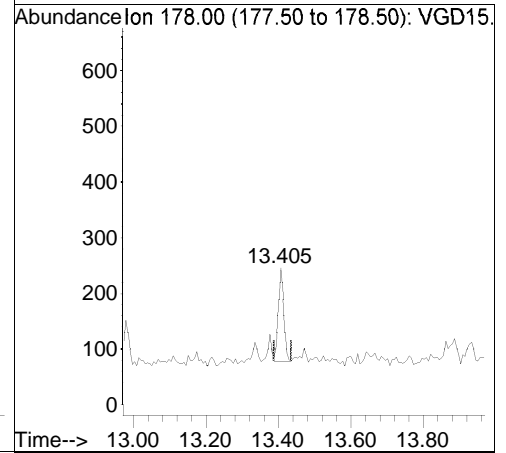


Raw

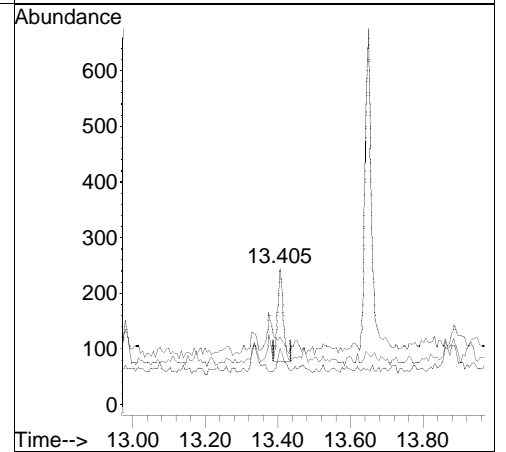
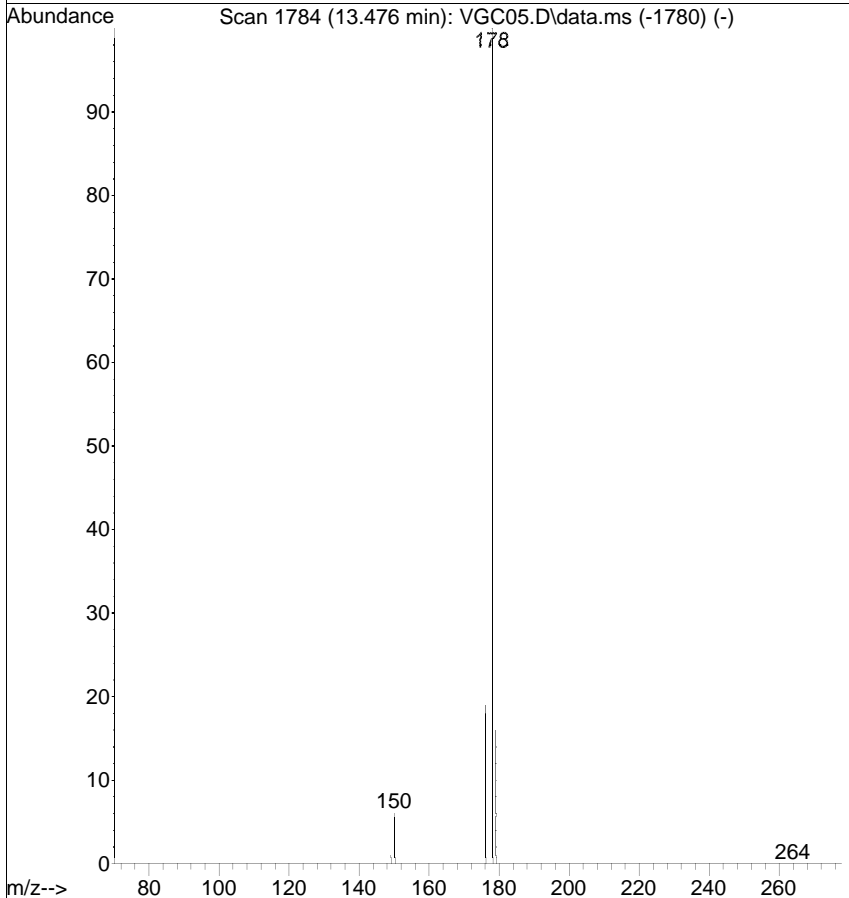


#16
 Anthracene
 Concen: 0.0019 ug/mL
 RT: 13.405 min Scan# 1772
 Delta R.T. -0.066 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

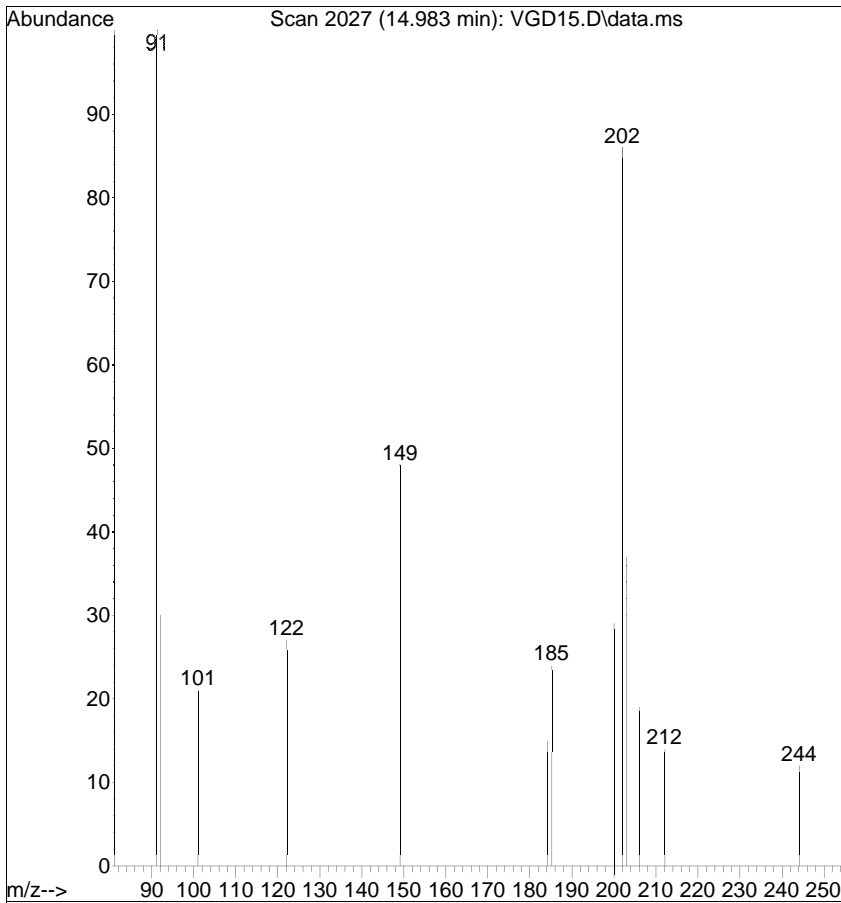
Tgt Ion	Ratio	Lower	Upper	Resp
178	100			171
179	49.4	0.0	34.4#	
176	40.8	0.0	39.5#	



Ref

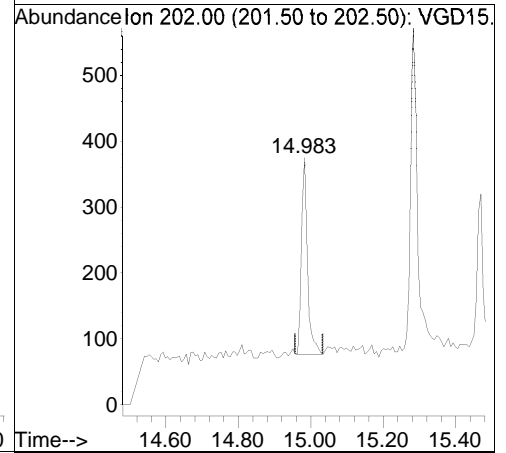


Raw

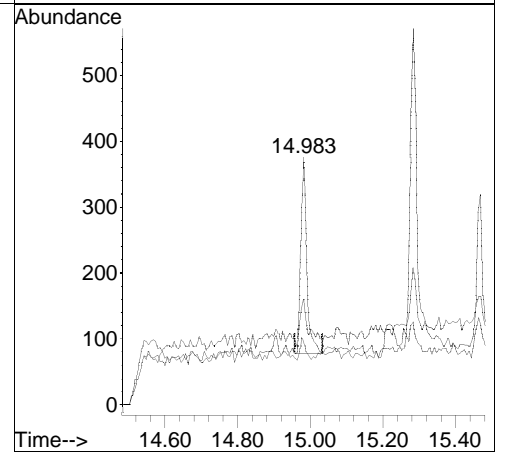
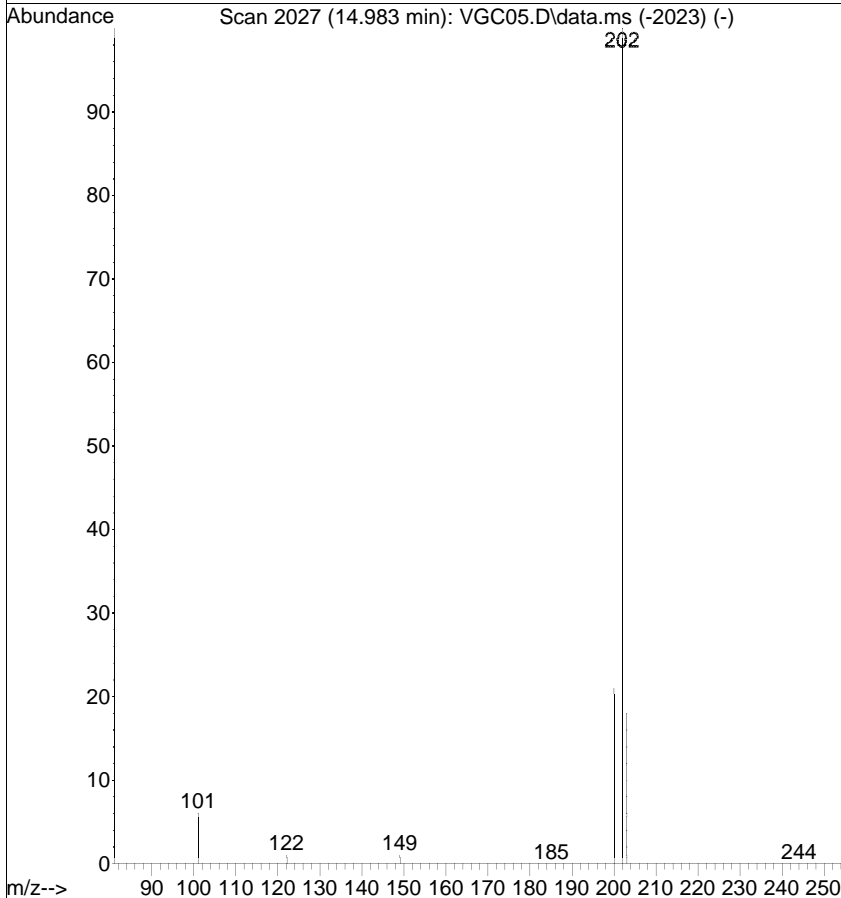


#17
 Fluoranthene
 Concen: 0.0032 ug/mL
 RT: 14.983 min Scan# 2027
 Delta R.T. 0.001 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

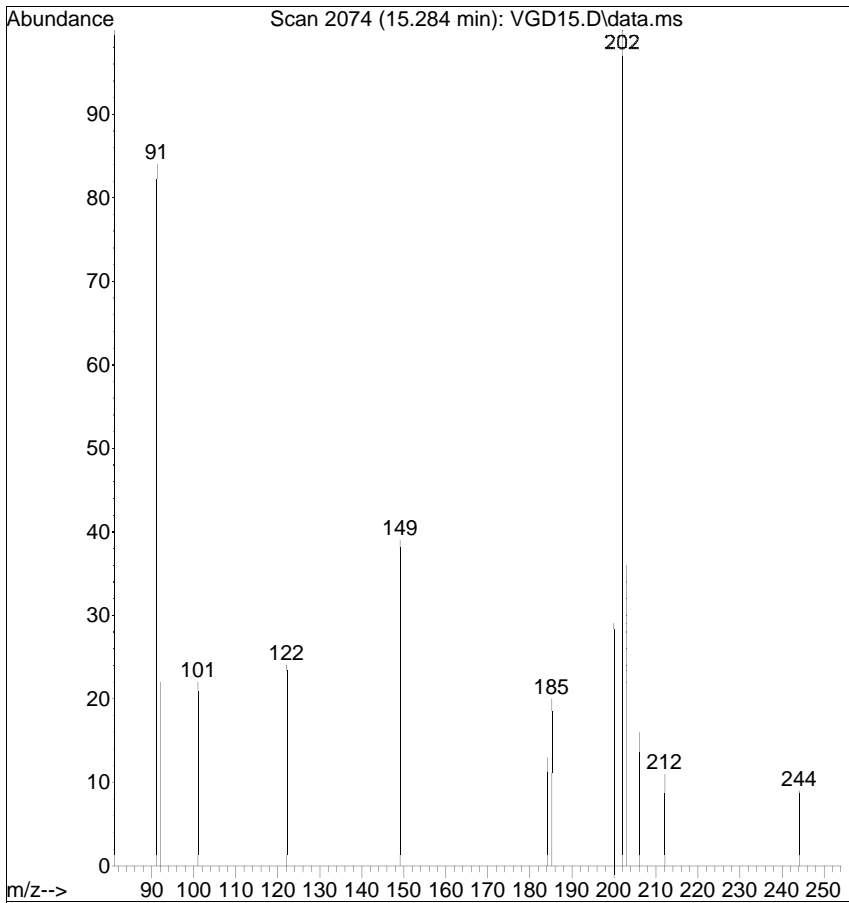
Tgt Ion	Resp	Lower	Upper
202	342		
101	24.5	0.0	21.1#
203	42.9	0.0	37.0#



Ref

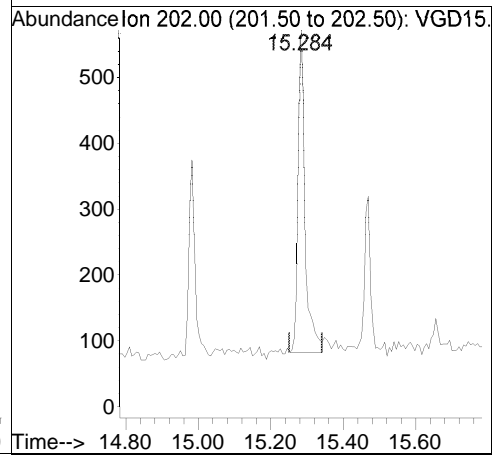


Raw

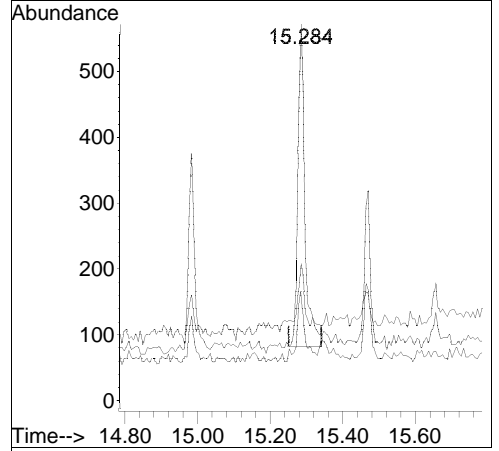
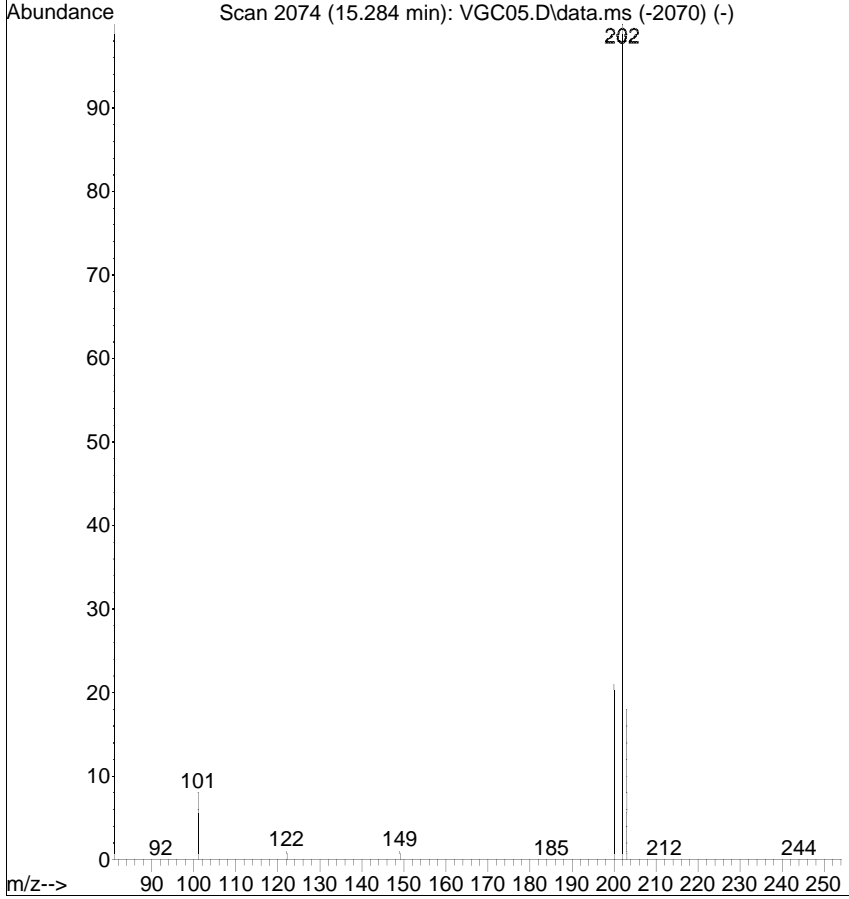


#19
 Pyrene
 Concen: 0.0068 ug/mL
 RT: 15.284 min Scan# 2074
 Delta R.T. 0.001 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

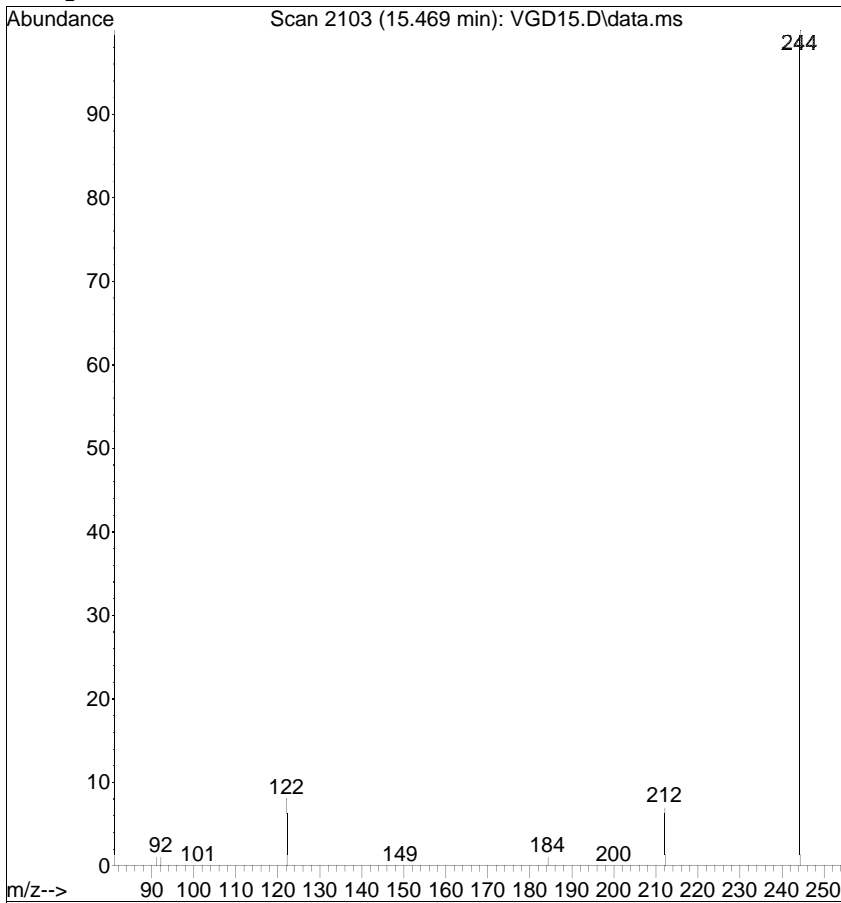
Tgt Ion	Ratio	Lower	Upper
202	100		
200	29.1	1.1	41.1
203	36.4	0.0	37.7



Ref

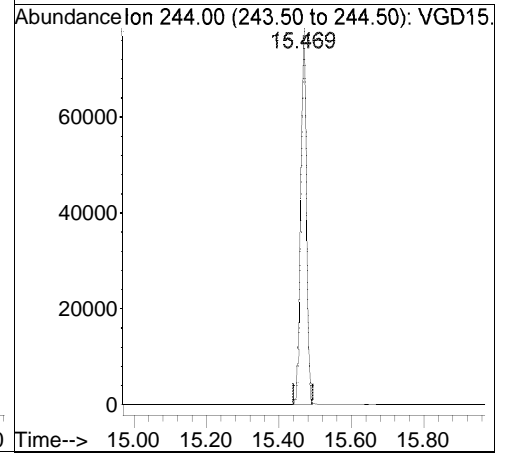


Raw

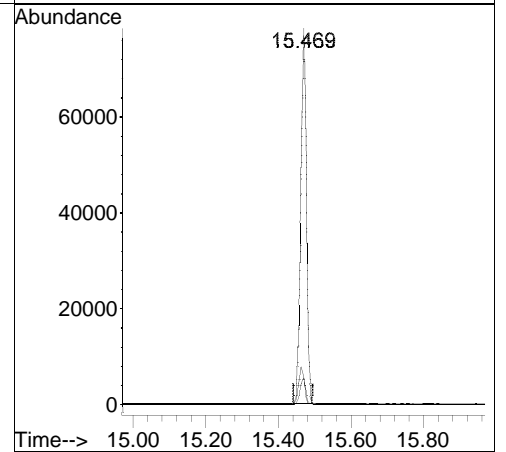
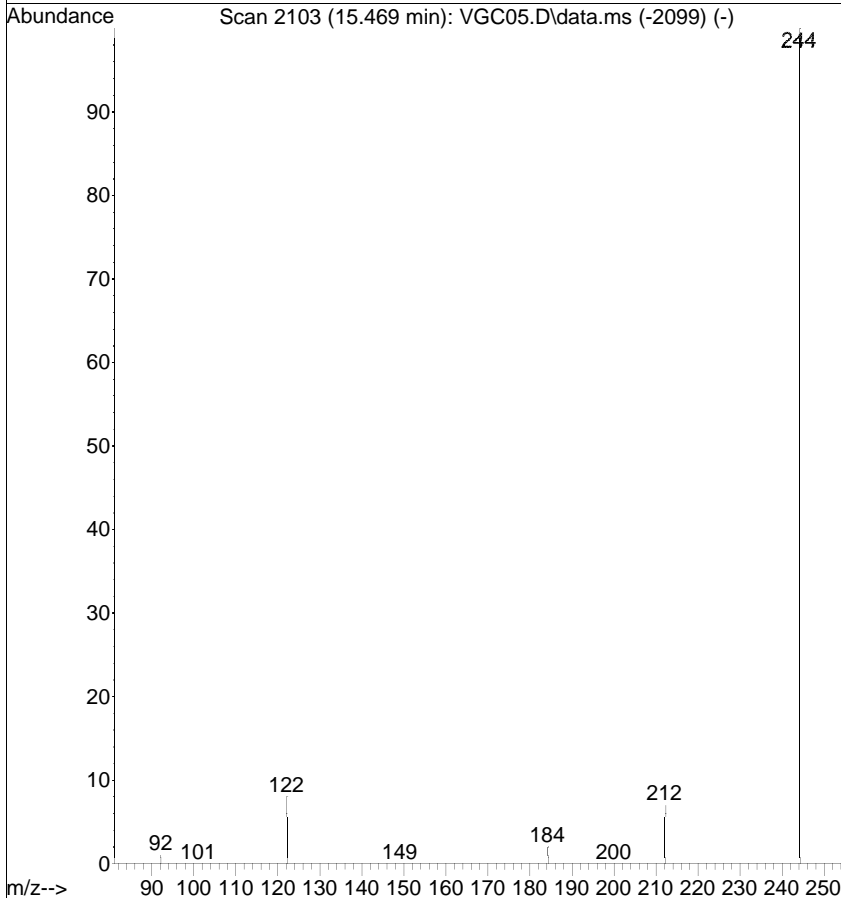


#20
 Terphenyl-d14
 Concen: 0.9835 ug/mL
 RT: 15.469 min Scan# 2103
 Delta R.T. 0.001 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

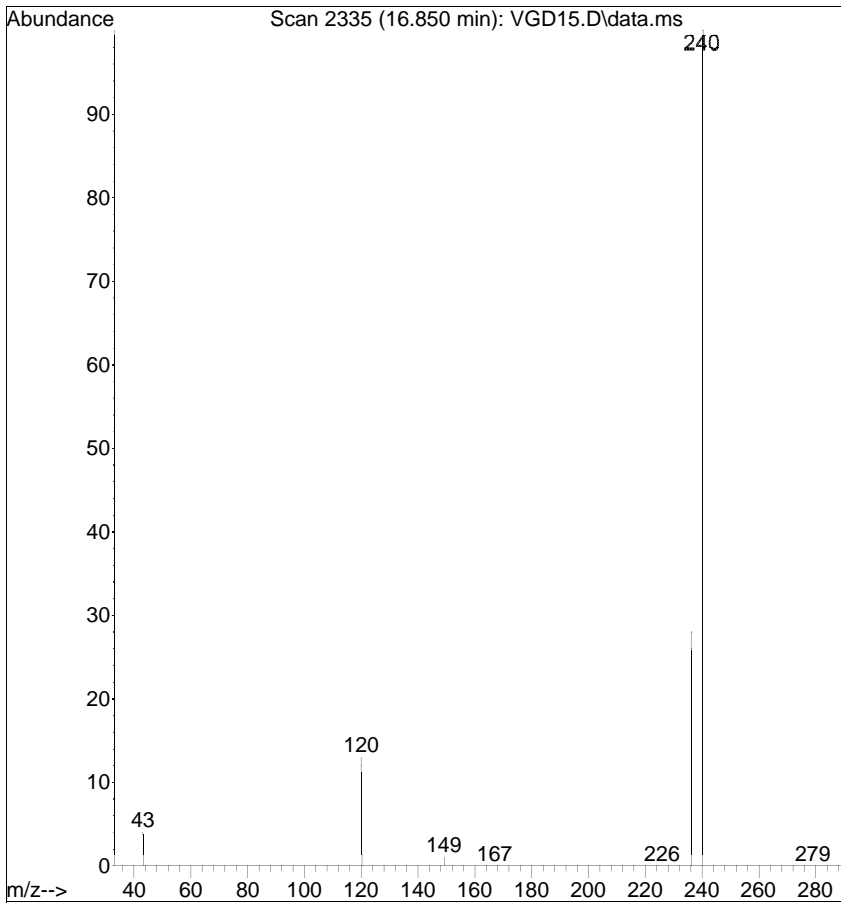
Tgt Ion	Resp	Lower	Upper
244	100		
122	7.7	0.0	25.0
212	7.3	0.0	31.4



Ref

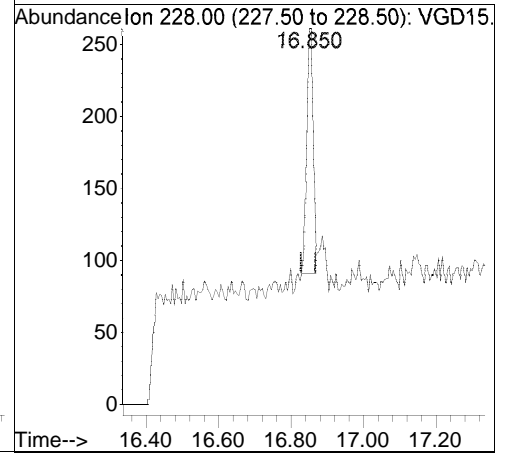


Raw

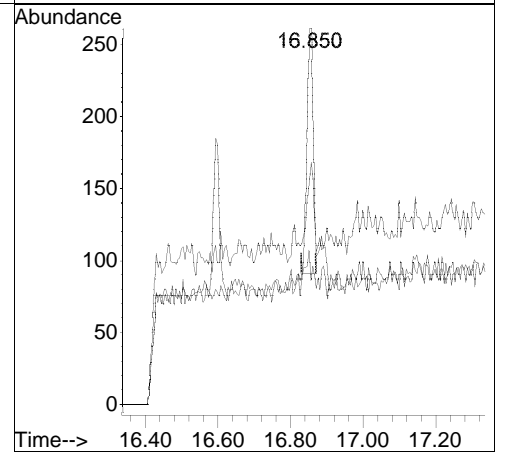
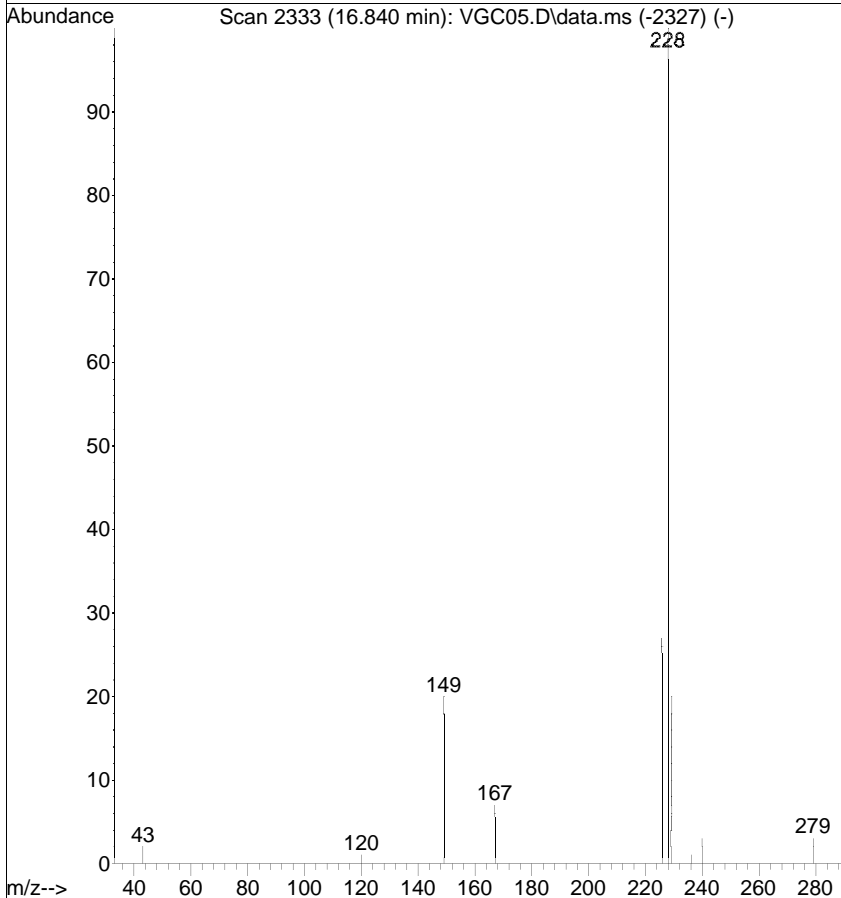


#21
 Benzo(a)anthracene
 Concen: 0.0023 ug/mL
 RT: 16.850 min Scan# 2335
 Delta R.T. 0.015 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

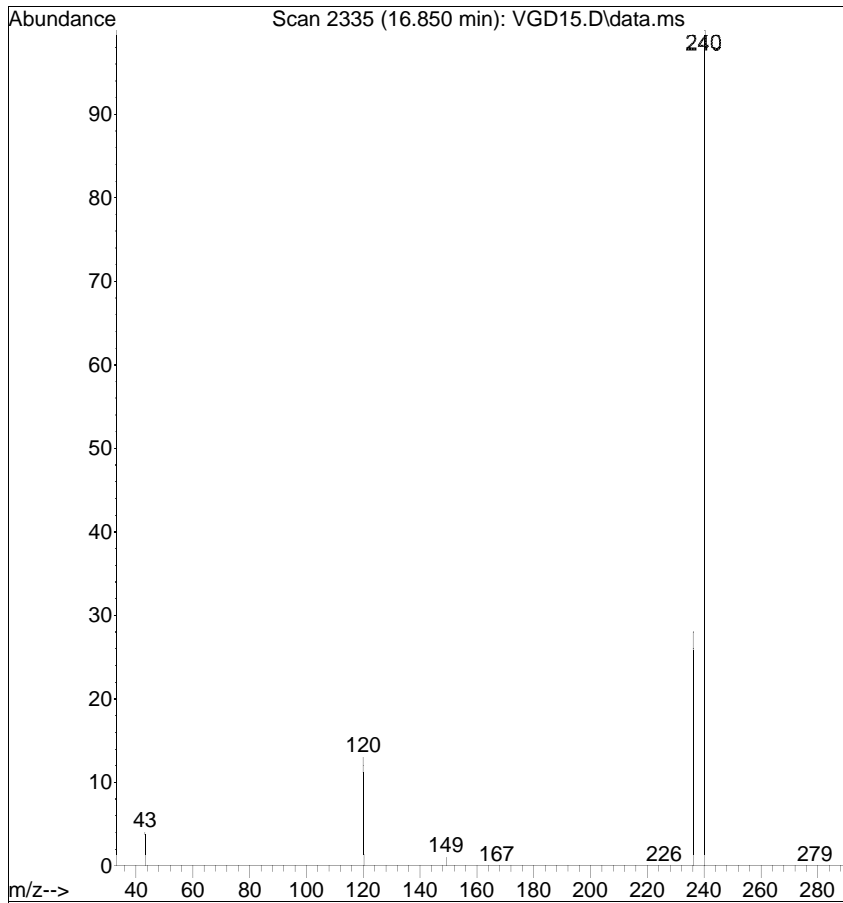
Tgt Ion	Ratio	Lower	Upper
228	100		
229	59.8	0.1	40.1#
226	41.0	9.3	49.3



Ref

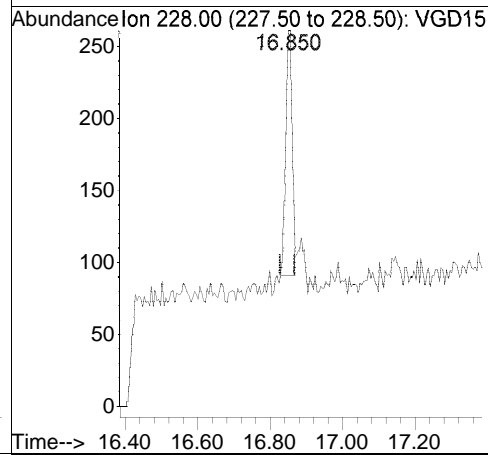


Raw

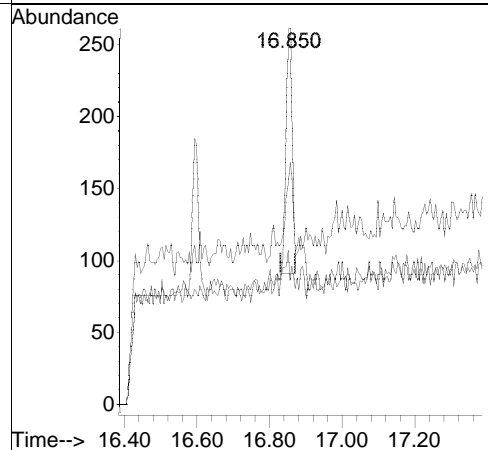
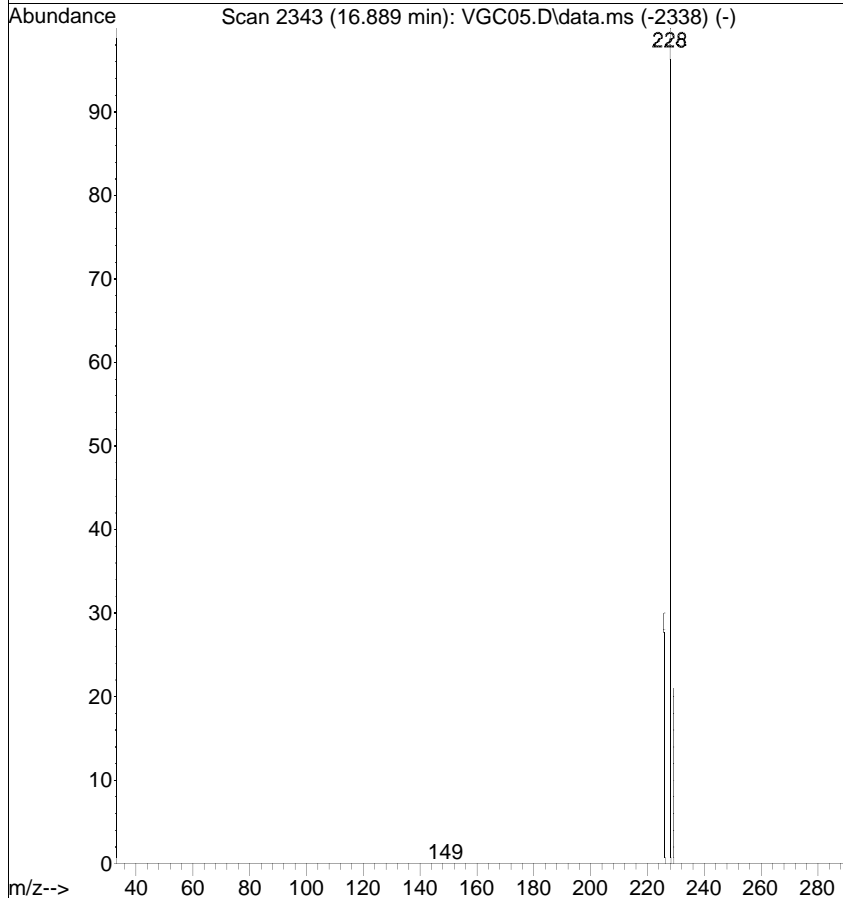


#22
 Chrysene
 Concen: 0.0025 ug/mL
 RT: 16.850 min Scan# 2335
 Delta R.T. -0.034 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

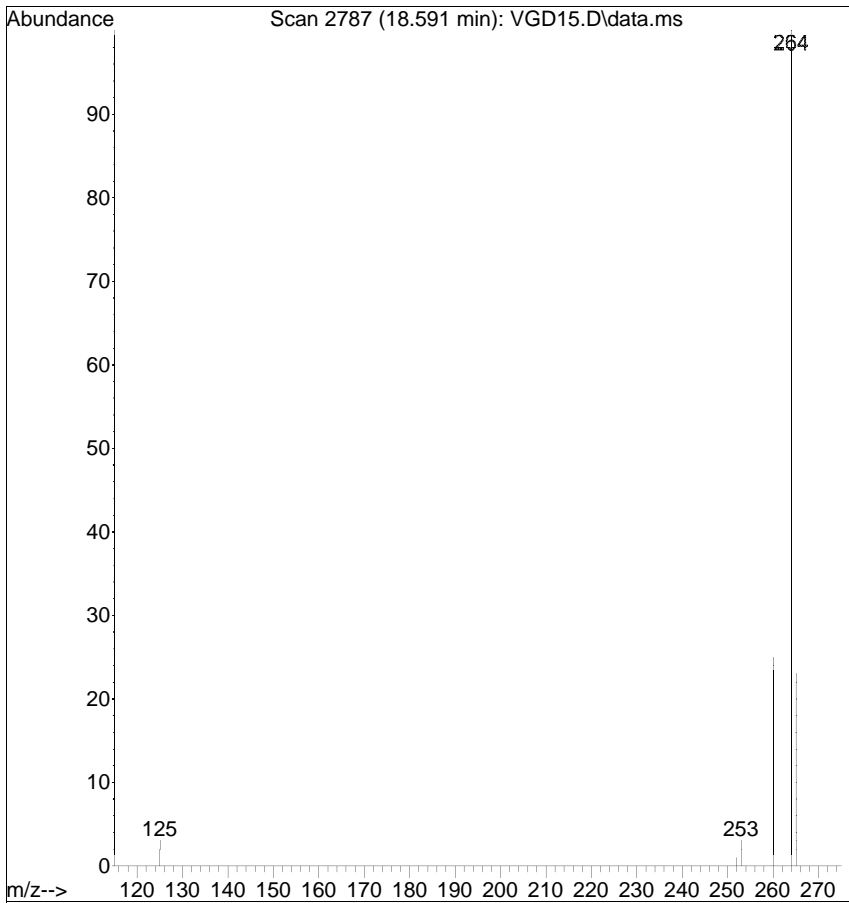
Tgt Ion	Ratio	Lower	Upper
228	100		
226	41.0	13.4	53.4
229	59.8	0.8	40.8#



Ref

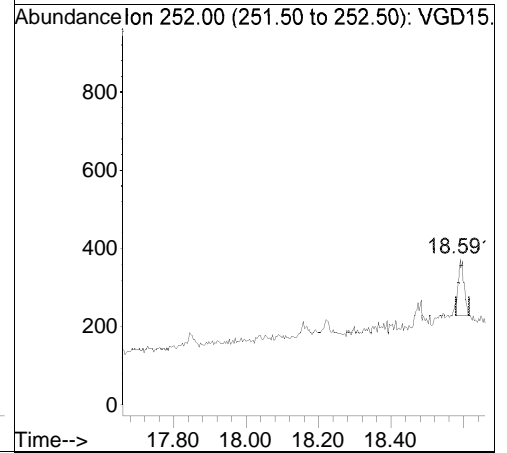


Raw

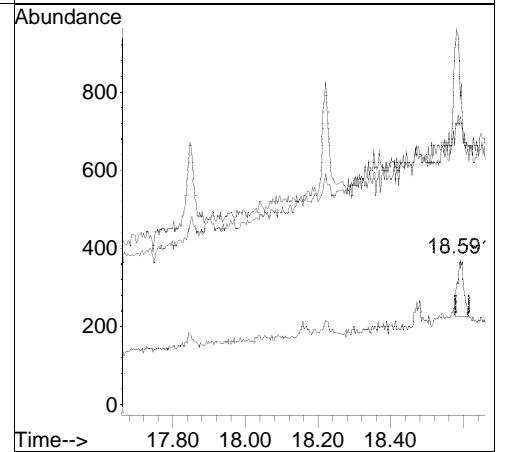
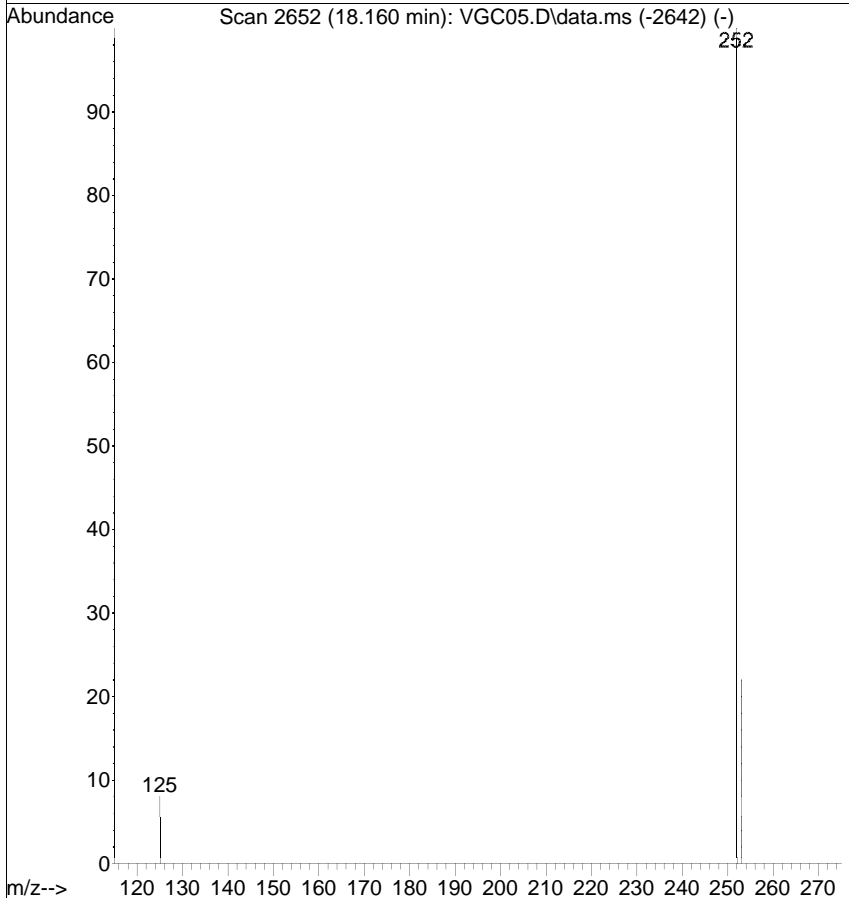


#24
 Benzo(b)fluoranthene
 Concen: 0.0030 ug/mL
 RT: 18.591 min Scan# 2787
 Delta R.T. 0.435 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

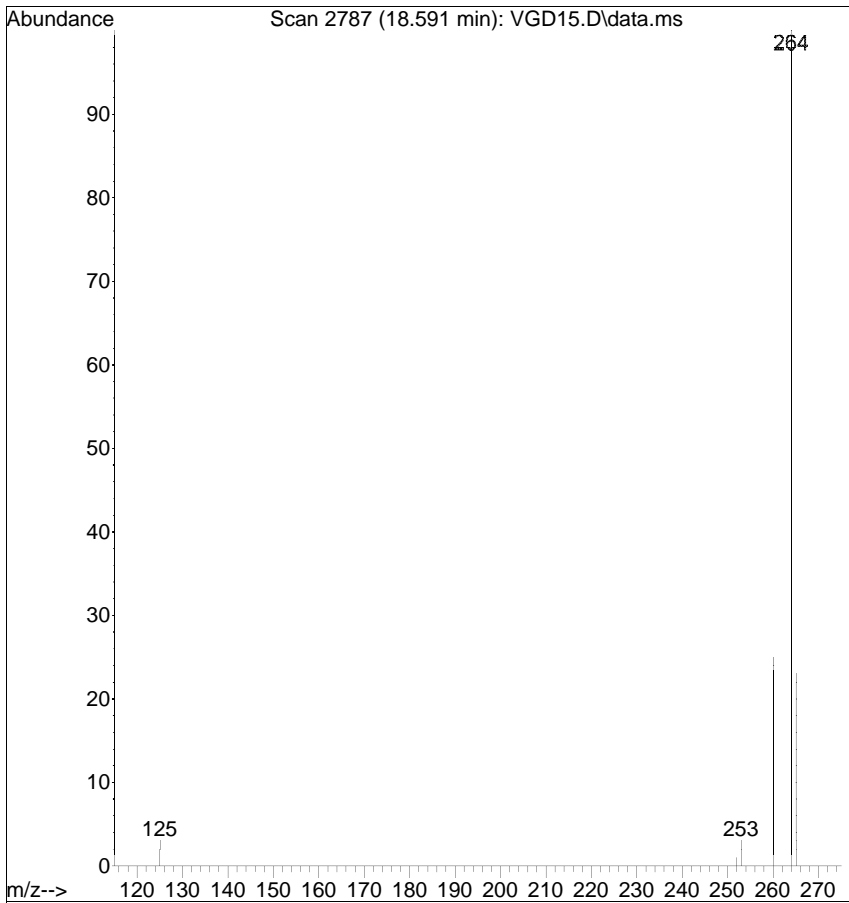
Tgt Ion	Resp	Lower	Upper
252	157		
252	100		
253	197.3	1.0	41.0#
125	208.8	0.0	20.9#



Ref

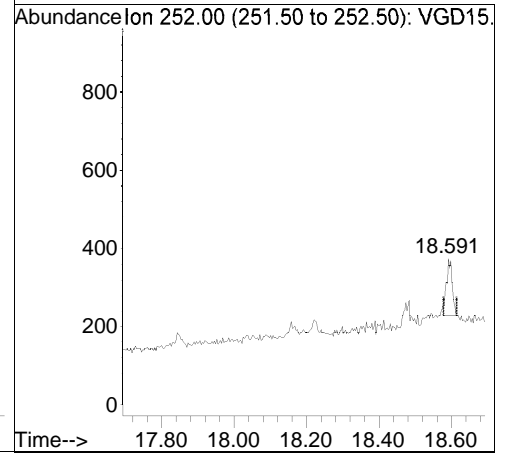


Raw

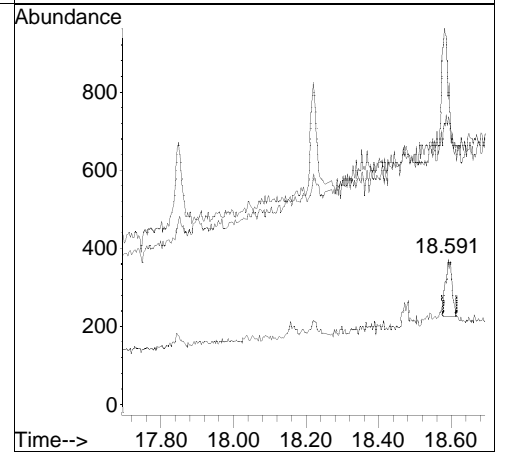
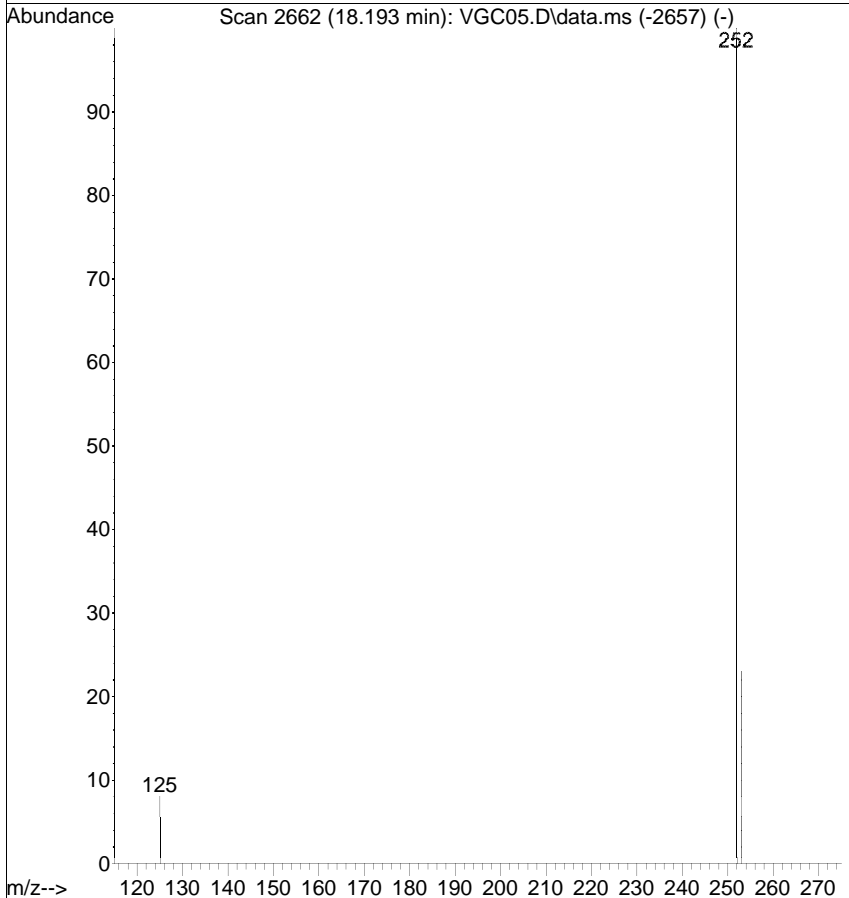


#25
 Benzo(k)fluoranthene
 Concen: 0.0028 ug/mL
 RT: 18.591 min Scan# 2787
 Delta R.T. 0.401 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

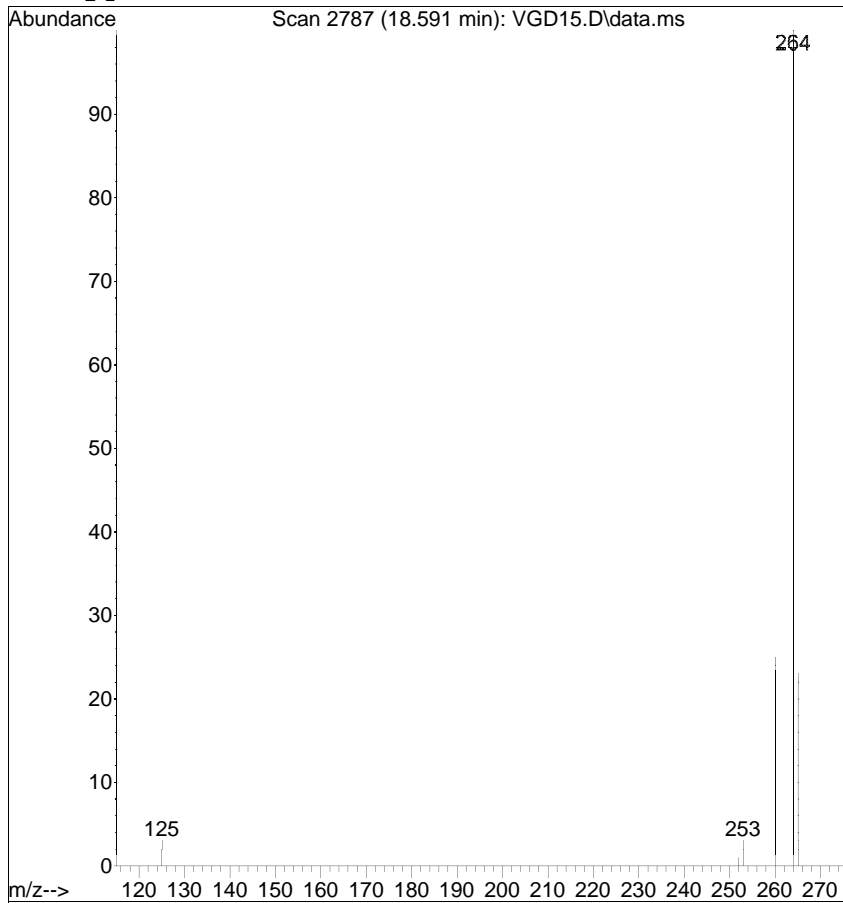
Tgt Ion	Resp	Lower	Upper
252	157		
252	100		
253	197.3	1.1	41.1#
125	208.8	0.0	21.1#



Ref

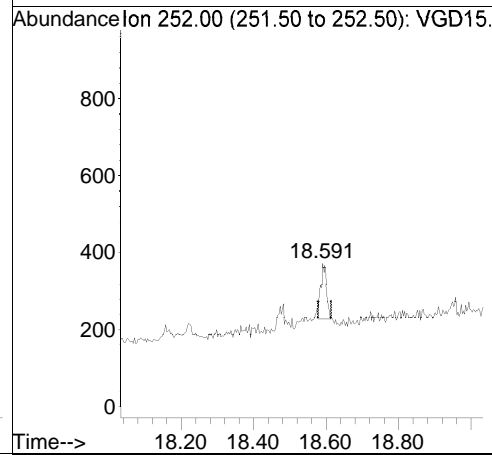


Raw

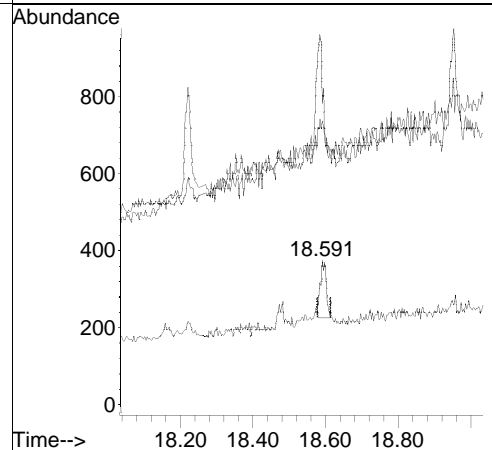
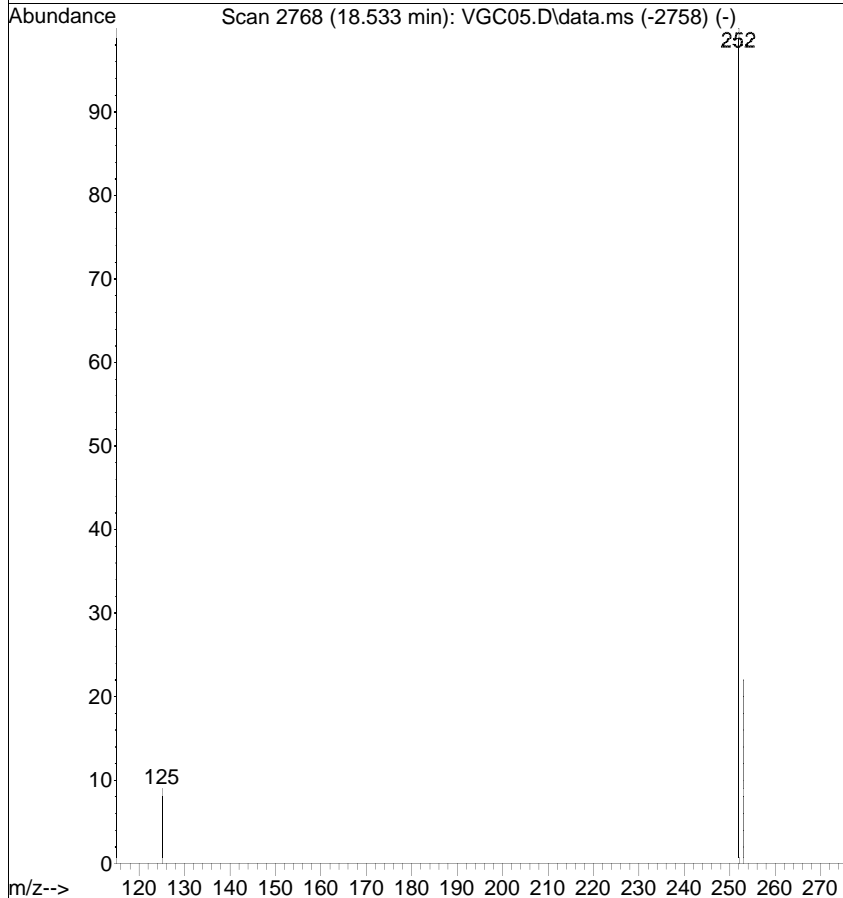


#26
 Benzo(a)pyrene
 Concen: 0.0033 ug/mL
 RT: 18.591 min Scan# 2787
 Delta R.T. 0.061 min
 Lab File: VGD15.D
 Acq: 13 Jul 2018 6:33 pm

Tgt Ion	Resp	Lower	Upper
252	157		
252	100		
253	197.3	3.4	43.4#
125	208.8	0.0	20.9#



Ref



ENTHALPY SPIKE USER REPORT FOR 301314 MSSIM Water
EPA 8270C-SIM

Type : BS
 Inst : MSBNA03
 Seqnum : 528280080016.2
 File : vgd16
 IDF : 1.0
 Lab ID : QC938868
 Matrix : Water
 Batch : 261249
 Time : 13-JUL-2018 19:05
 Cal : 528278537001
 Units : ug/L

Type : BSD
 Inst : MSBNA03
 Seqnum : 528280080017.2
 File : vgd17
 IDF : 1.0
 Lab ID : QC938869
 Matrix : Water
 Batch : 261249
 Time : 13-JUL-2018 19:37
 Cal : 528278537001

BS: 1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF
 BSD: 1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	Spiked	BS Raw	BS Result	%Rec	BSD Raw	BSD Result	%Rec	Limits	RPD	Lim	Flags
Acenaphthene	1.000	0.8800	0.8800	88	0.8481	0.8481	85	51-120	4	48	u
Pyrene	1.000	1.112	1.112	111	1.054	1.054	105	60-120	5	35	u
Nitrobenzene-d5	1.000	0.8340	0.8340	83	0.7752	0.7752	78	48-124			u
2-Fluorobiphenyl	1.000	0.8216	0.8216	82	0.7873	0.7873	79	51-120			u
Terphenyl-d14	1.000	1.003	1.003	100	0.9500	0.9500	95	25-120			u

ISTD (CCV vgd06)	CCV Area	BS Area	%Drift	CCV RT	BS RT	Drift
Naphthalene-d8	84858	77643	-8.50	9.10	9.10	0.00
Acenaphthene-d10	52953	50121	-5.35	11.41	11.41	0.00
Phenanthrene-d10	98761	94406	-4.41	13.38	13.38	0.00
Chrysene-d12	80453	70064	-12.91	16.85	16.86	0.01
Perylene-d12	74224	44125	-40.55	18.59	18.59	0.00

ISTD (CCV vgd06)	CCV Area	BSD Area	%Drift	CCV RT	BSD RT	Drift
Naphthalene-d8	84858	79427	-6.40	9.10	9.10	0.00
Acenaphthene-d10	52953	50612	-4.42	11.41	11.41	0.00
Phenanthrene-d10	98761	95164	-3.64	13.38	13.38	0.00
Chrysene-d12	80453	71819	-10.73	16.85	16.86	0.01
Perylene-d12	74224	45562	-38.62	18.59	18.60	0.01

JW1 07/16/18 [1,4-Dioxane]: Corrected automatically drawn baseline for spike & dup. [general version]

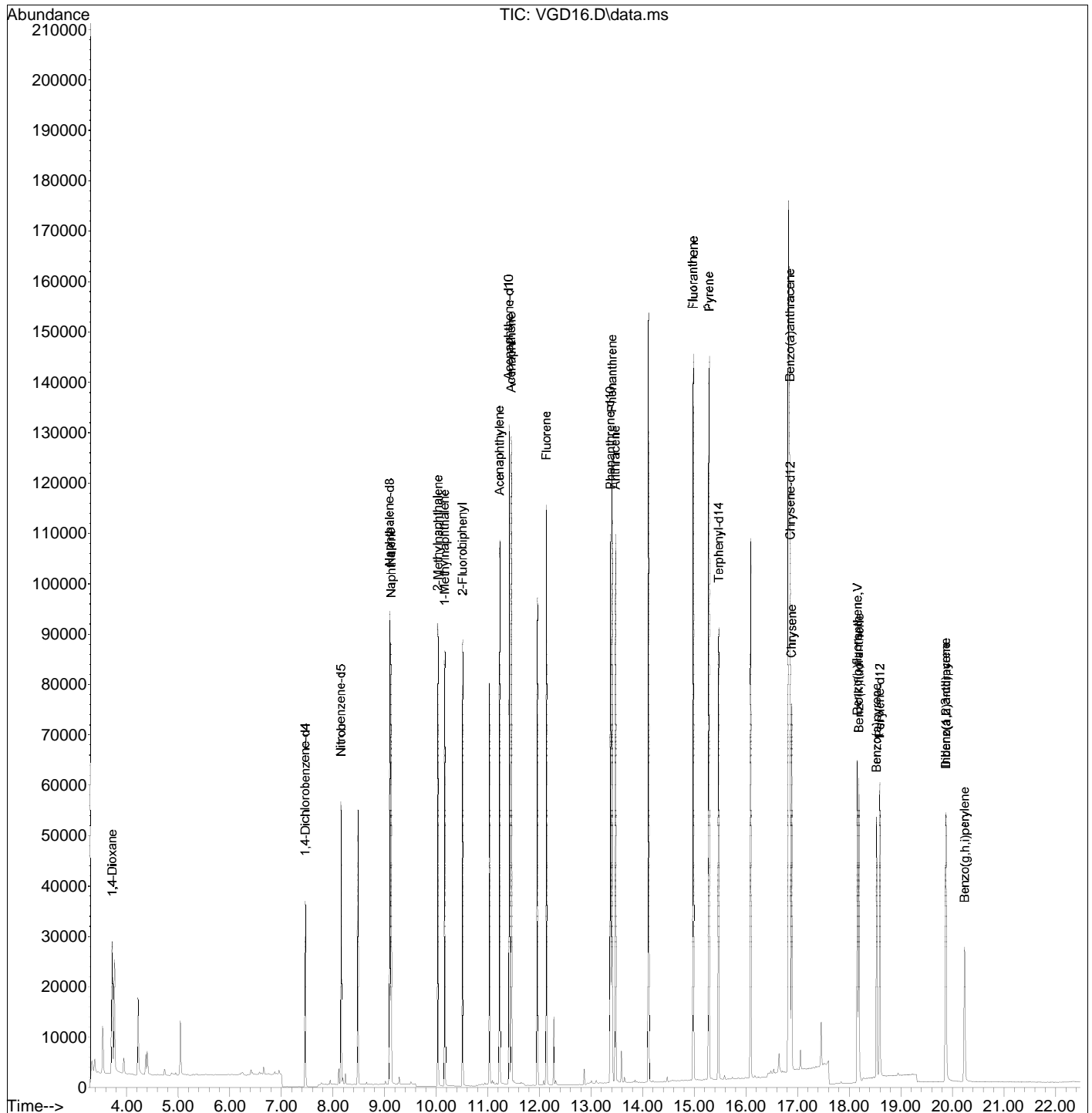
Analyst: JW1 Date: 07/17/18 Reviewer: LW Date: 07/17/18

u=use

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071318\
 Data File : VGD16.D
 Acq On : 13 Jul 2018 7:05 pm
 Operator :
 Sample : BS, QC938868
 Misc : 261249,1,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 16 09:17:44 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071318\
 Data File : VGD16.D
 Acq On : 13 Jul 2018 7:05 pm
 Operator :
 Sample : BS, QC938868
 Misc : 261249,1,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 16 09:17:44 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.461	152	23261	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.098	136	77643	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.414	164	50121	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.376	188	94406	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	70064	1.0000	ug/mL	0.00
23) Perylene-d12	18.593	264	44125	1.0000	ug/mL	0.00

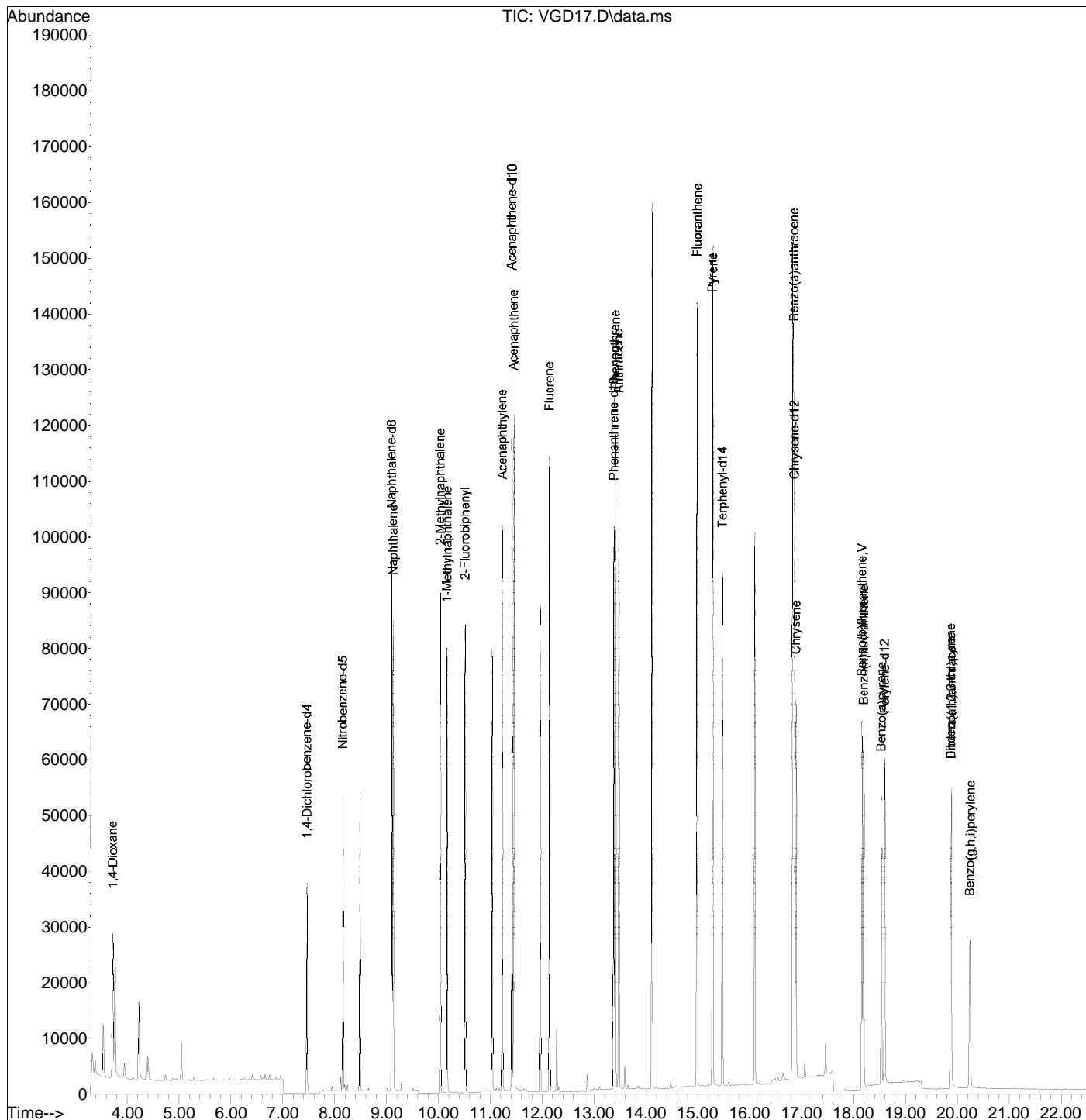
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.721	88	20423m	2.1612	ug/mL	
4) Nitrobenzene-d5	8.154	82	26762	0.8340	ug/mL	80
5) Naphthalene	9.126	128	64360	0.8322	ug/mL	100
6) 2-Methylnaphthalene	10.034	142	48424	0.8112	ug/mL	89
7) 1-Methylnaphthalene	10.165	142	43737	0.8012	ug/mL	95
9) 2-Fluorobiphenyl	10.511	172	61499	0.8216	ug/mL	98
10) Acenaphthylene	11.227	152	73257	0.9402	ug/mL	99
11) Acenaphthene	11.454	154	43919	0.8800	ug/mL	96
12) Fluorene	12.136	166	53602	0.9258	ug/mL	97
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.405	178	84595	0.9495	ug/mL	99
16) Anthracene	13.470	178	81226	0.9323	ug/mL	99
17) Fluoranthene	14.976	202	103844	0.9923	ug/mL	98
19) Pyrene	15.283	202	104283	1.1115	ug/mL	99
20) Terphenyl-d14	15.469	244	79215	1.0025	ug/mL	91
21) Benzo(a)anthracene	16.840	228	82429	0.9777	ug/mL	96
22) Chrysene	16.885	228	51165	0.6451	ug/mL	94
24) Benzo(b)fluoranthene	18.157	252	55547	1.0484	ug/mL	96
25) Benzo(k)fluoranthene	18.187	252	50116	0.8786	ug/mL	97
26) Benzo(a)pyrene	18.530	252	43497	0.9052	ug/mL	98
27) Indeno(1,2,3-cd)pyrene	19.870	276	35869	0.6774	ug/mL	# 47
28) Dibenz(a,h)anthracene	19.873	278	23705	0.5542	ug/mL	89
29) Benzo(g,h,i)perylene	20.237	276	29858	0.7037	ug/mL	# 91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071318\
 Data File : VGD17.D
 Acq On : 13 Jul 2018 7:37 pm
 Operator :
 Sample : BSD, QC938869
 Misc : 261249,1,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 16 09:18:39 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071318\
 Data File : VGD17.D
 Acq On : 13 Jul 2018 7:37 pm
 Operator :
 Sample : BSD, QC938869
 Misc : 261249,1,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 16 09:18:39 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.460	152	23373	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.098	136	79427	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.414	164	50612	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.378	188	95164	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	71819	1.0000	ug/mL	0.00
23) Perylene-d12	18.596	264	45562	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.720	88	19660m	2.0830	ug/mL	
4) Nitrobenzene-d5	8.154	82	25446	0.7752	ug/mL	# 78
5) Naphthalene	9.126	128	62286	0.7873	ug/mL	99
6) 2-Methylnaphthalene	10.031	142	46317	0.7585	ug/mL	98
7) 1-Methylnaphthalene	10.166	142	41689	0.7466	ug/mL	93
9) 2-Fluorobiphenyl	10.512	172	59507	0.7873	ug/mL	98
10) Acenaphthylene	11.226	152	71517	0.9090	ug/mL	99
11) Acenaphthene	11.454	154	42742	0.8481	ug/mL	93
12) Fluorene	12.136	166	52191	0.8927	ug/mL	98
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.407	178	83623	0.9312	ug/mL	99
16) Anthracene	13.472	178	80676	0.9186	ug/mL	99
17) Fluoranthene	14.982	202	100912	0.9566	ug/mL	98
19) Pyrene	15.283	202	101397	1.0543	ug/mL	99
20) Terphenyl-d14	15.468	244	76945	0.9500	ug/mL	90
21) Benzo(a)anthracene	16.840	228	80985	0.9371	ug/mL	97
22) Chrysene	16.884	228	49581	0.6099	ug/mL	95
24) Benzo(b)fluoranthene	18.157	252	54409	0.9945	ug/mL	97
25) Benzo(k)fluoranthene	18.187	252	60035	1.0192	ug/mL	98
26) Benzo(a)pyrene	18.533	252	43080	0.8683	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.870	276	36124	0.6607	ug/mL	# 48
28) Dibenz(a,h)anthracene	19.877	278	23868	0.5404	ug/mL	89
29) Benzo(g,h,i)perylene	20.240	276	29677	0.6773	ug/mL	# 92

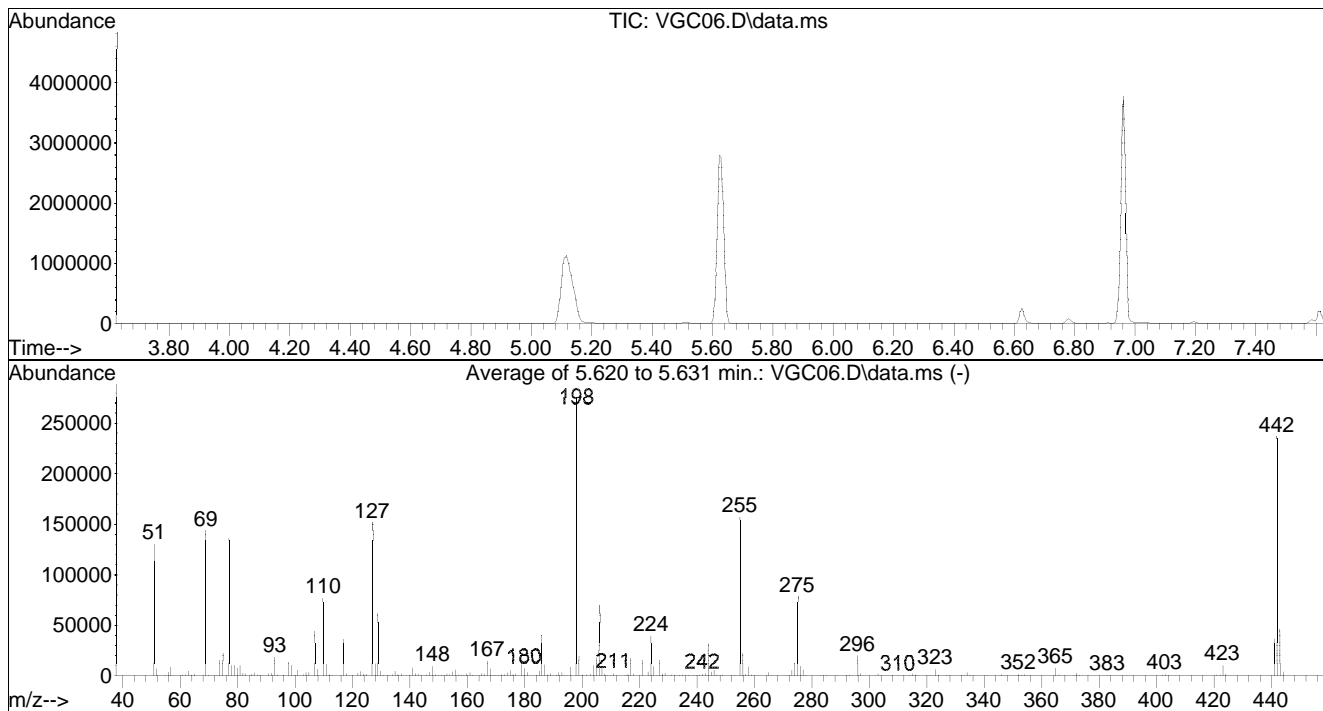
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Initial Calibration Raw Data

Data Path : G:\csinput.net\DATA\071218\
 Data File : VGC06.D
 Acq On : 12 Jul 2018 12:27 pm
 Operator :
 Sample : TUN,S37298
 Misc : DFTPP/PEM
 ALS Vial : 6 Sample Multiplier: 1

Integration File: normal.p

Method : C:\msdchem\1\METHODS\DFTPP03.M
 Title : MSBNA03 BNA DFTPP/PEM
 Last Update : Mon May 14 18:51:55 2018



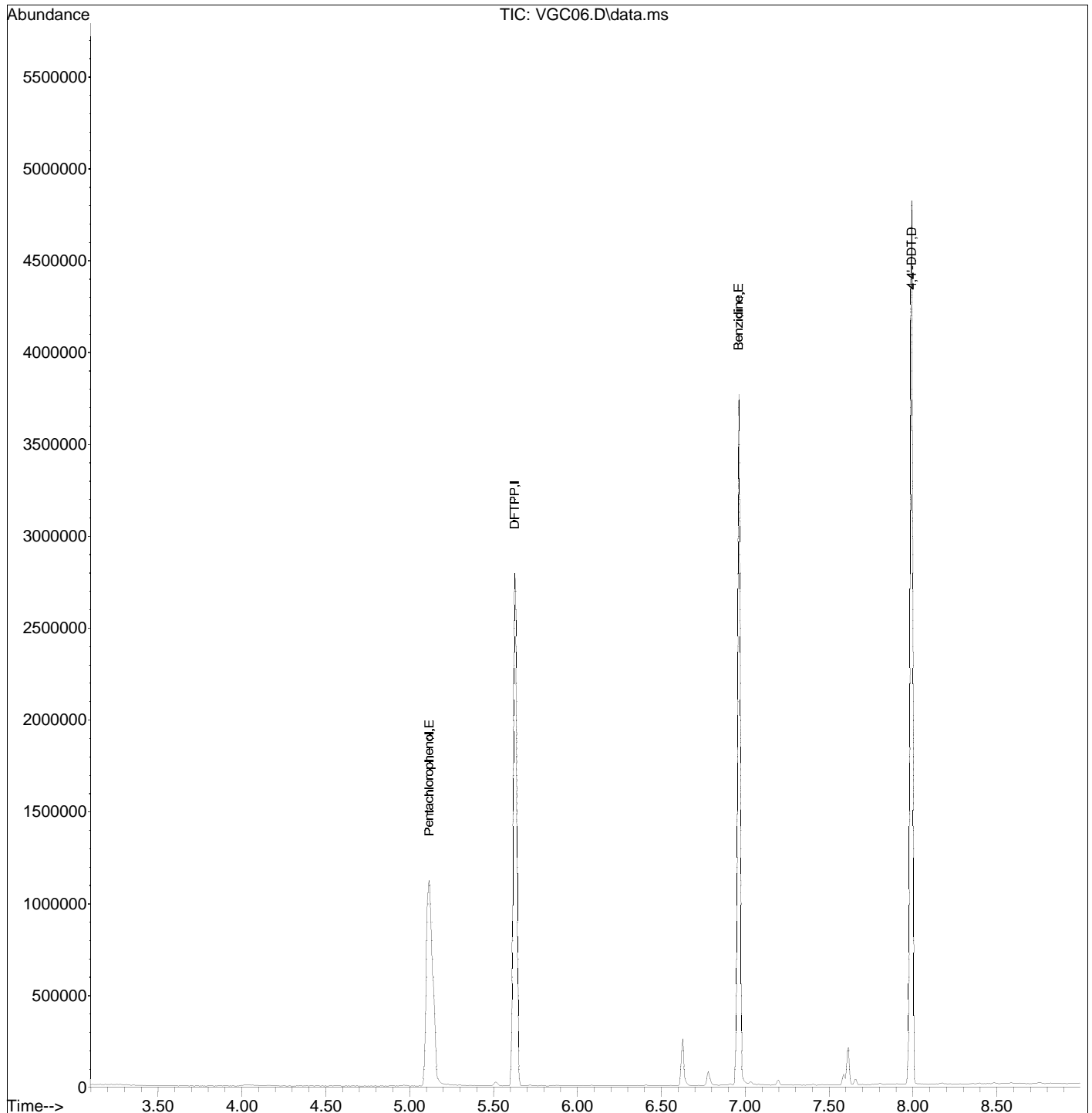
AutoFind: Scans 443, 444, 445; Background Corrected with Scan 437

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.4	130081	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.3	143364	PASS
70	69	0.00	2	0.6	904	PASS
127	198	40	60	55.2	151317	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	274218	PASS
199	198	5	9	7.0	19218	PASS
275	198	10	30	28.5	78240	PASS
365	198	1	100	2.8	7767	PASS
441	443	0.01	100	79.6	36426	PASS
442	198	40	100	86.2	236309	PASS
443	442	17	23	19.4	45741	PASS

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
Data File : VGC06.D
Acq On : 12 Jul 2018 12:27 pm
Operator :
Sample : TUN,S37298
Misc : DFTPP/PEM
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 13 10:58:04 2018
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Mon May 14 18:51:55 2018
Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC06.D
 Acq On : 12 Jul 2018 12:27 pm
 Operator :
 Sample : TUN,S37298
 Misc : DFTPP/PEM
 ALS Vial : 6 Sample Multiplier: 1

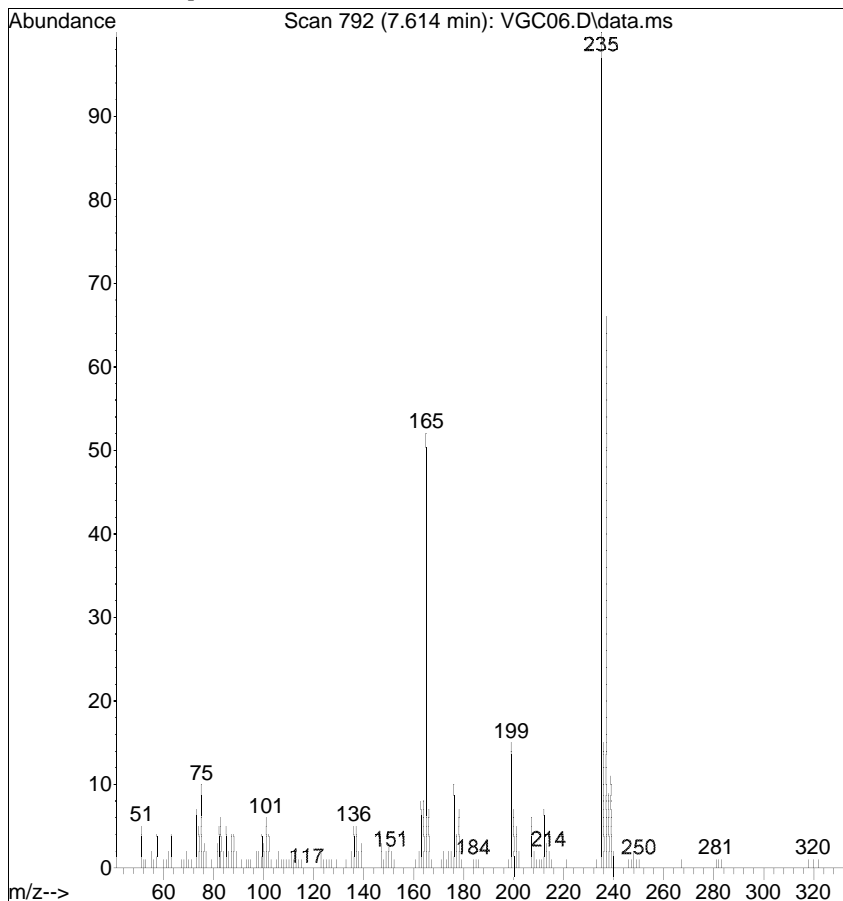
Quant Time: Jul 13 10:58:04 2018
 Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
 Quant Title : MSBNA03 BNA DFTPP/PEM
 QLast Update : Mon May 14 18:51:55 2018
 Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.626	198	451952	50.0000	ug/mL	0.00
4) 4,4'-DDT	7.992	235	955552	50.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
1) Pentachlorophenol	5.117	266	365261	83.9881	ug/mL	98
3) Benzidine	6.963	184	1682136	44.5369	ug/mL	97
5) 4,4'-DDE	7.197	246	3432	No CC lev	#	
6) 4,4'-DDD	7.614	235	45977m	No CC lev		

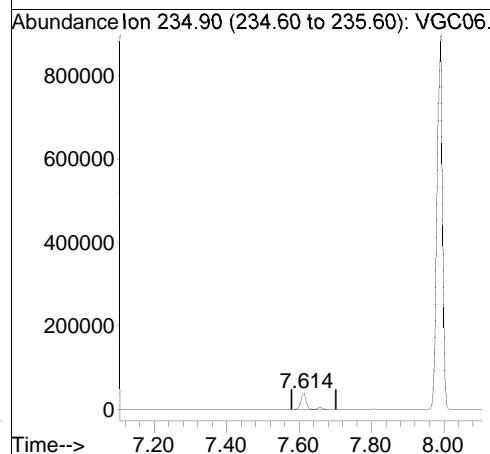
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

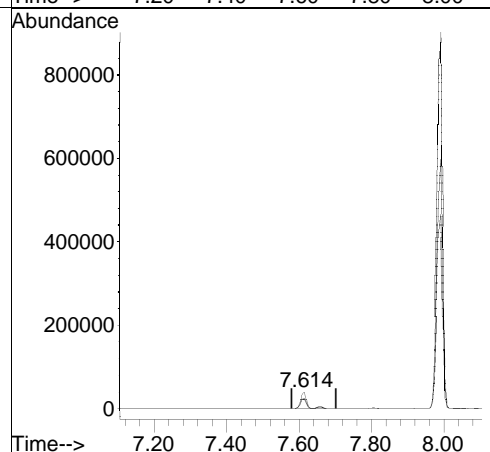
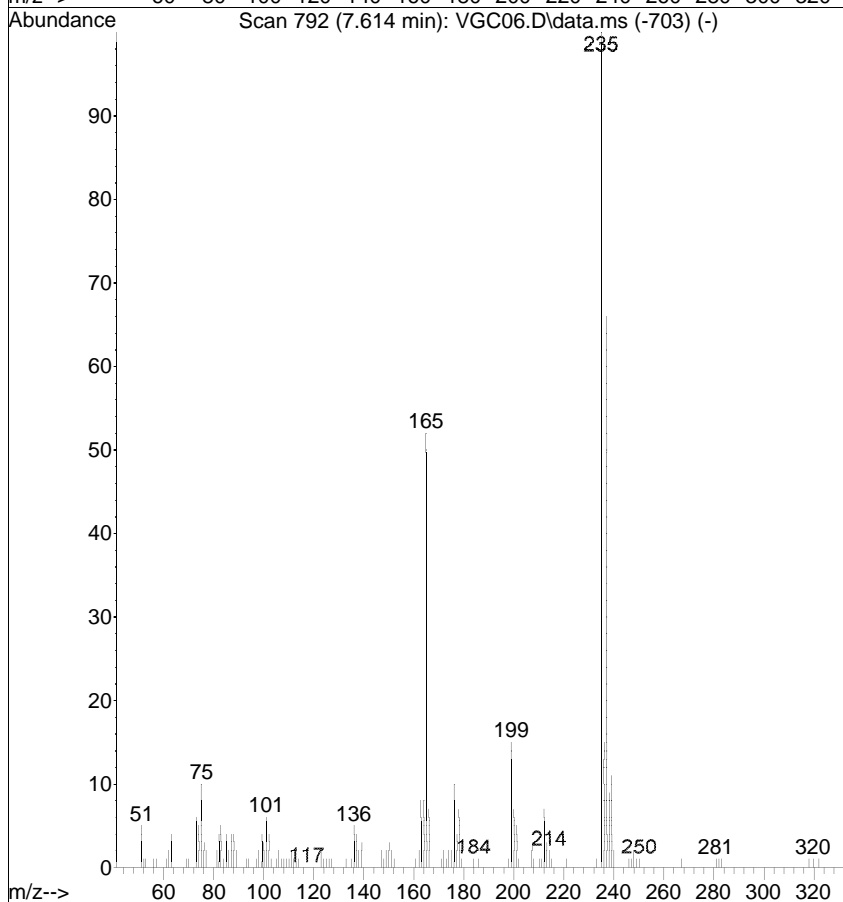


#6
 4,4'-DDD
 Concen: N.D. m
 RT: 7.614 min Scan# 792
 Delta R.T. 0.009 min
 Lab File: VGC06.D
 Acq: 12 Jul 2018 12:27 pm

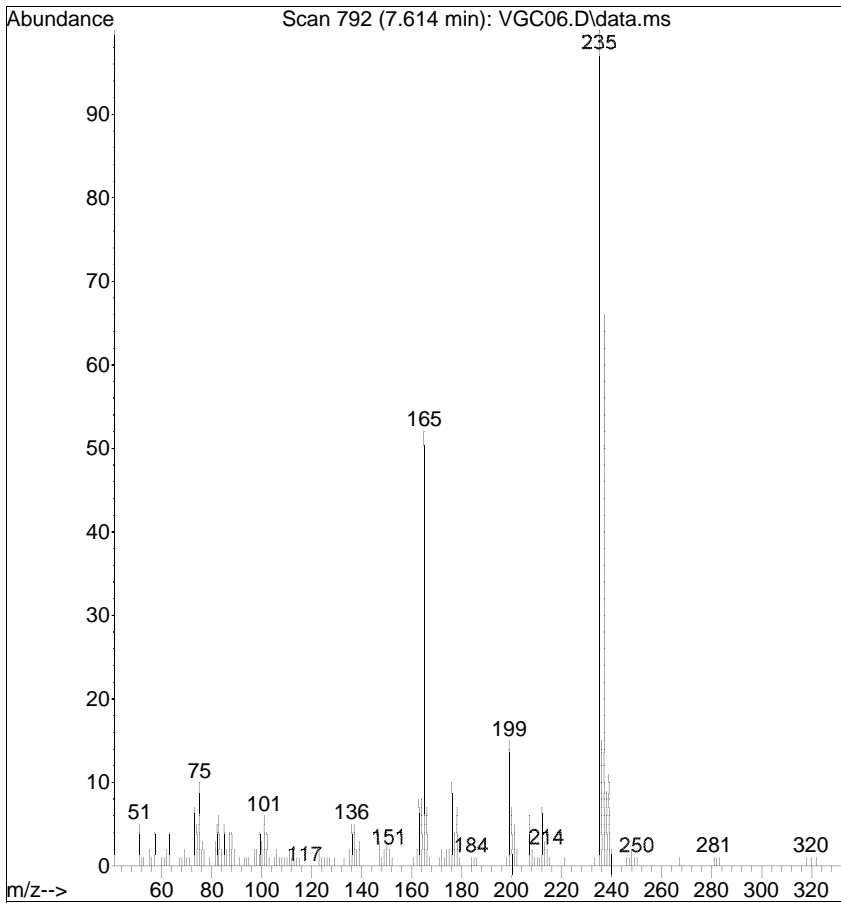
Tgt Ion	Resp	Lower	Upper
235	100		
237	65.6	44.1	84.1
165	52.5	30.5	70.5



Ref

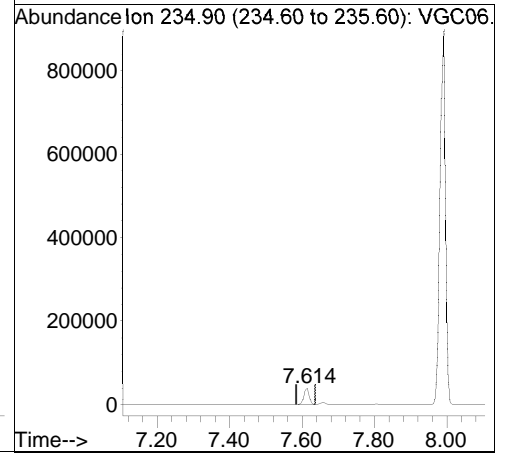


Raw

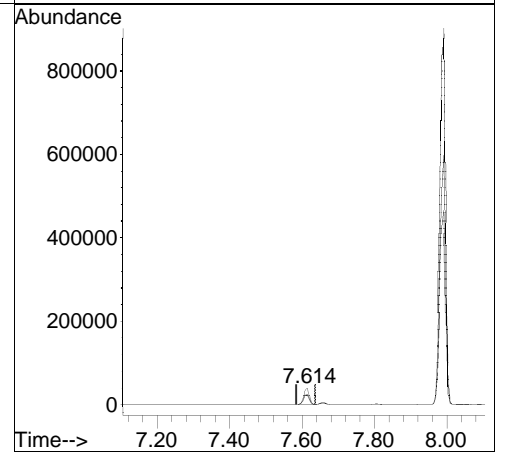
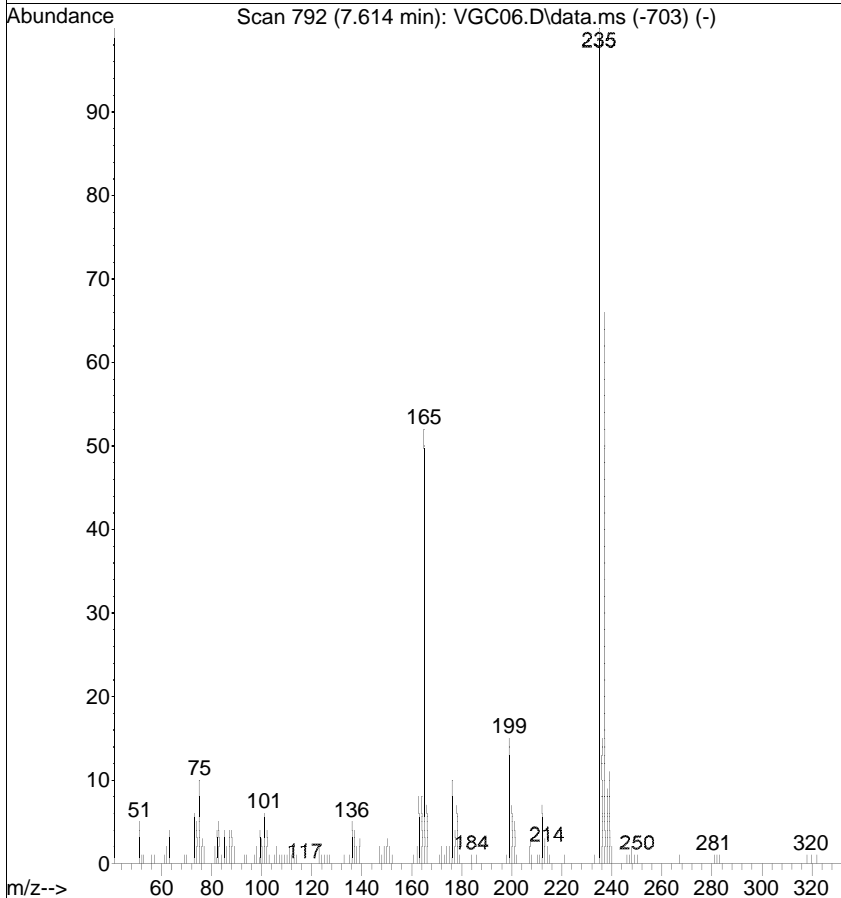


#6
 4,4'-DDD
 Concen: N.D.
 RT: 7.614 min Scan# 792
 Delta R.T. 0.009 min
 Lab File: VGC06.D
 Acq: 12 Jul 2018 12:27 pm

Tgt Ion	Resp	Lower	Upper
235	40981		
237	65.6	44.1	84.1
165	52.5	30.5	70.5



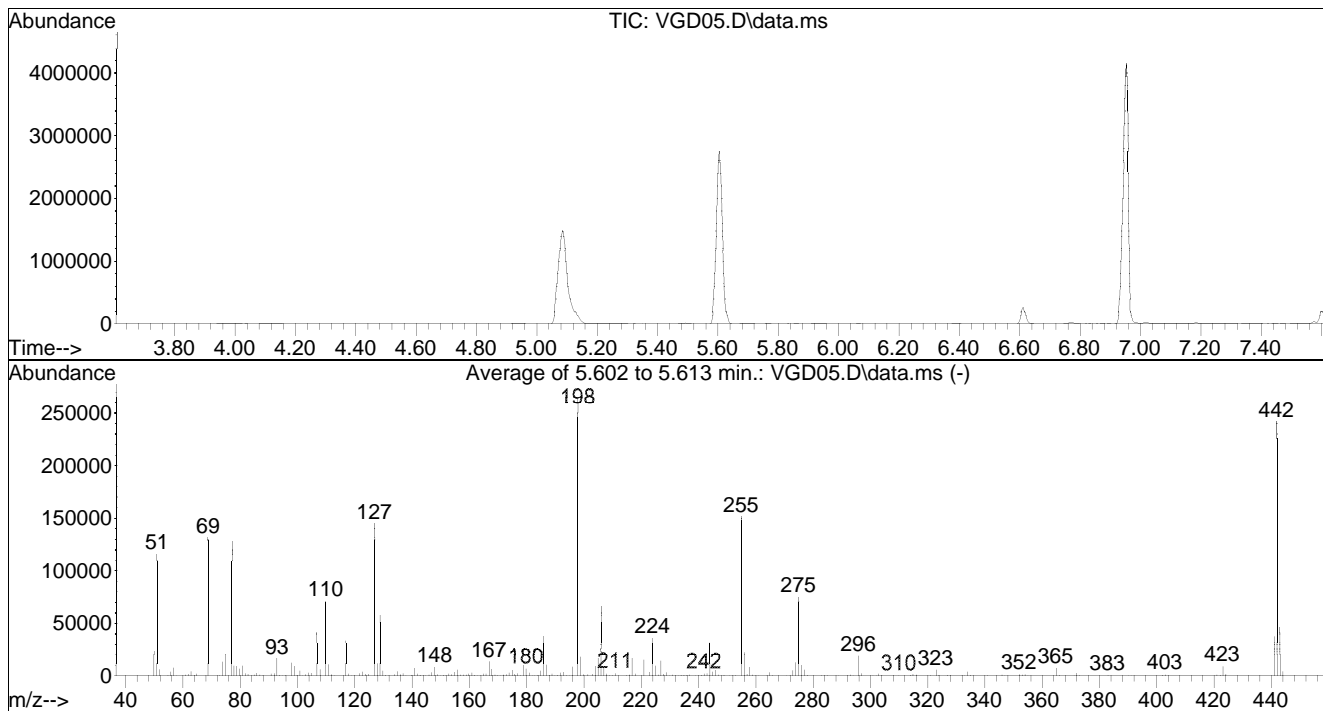
Ref



Data Path : G:\msbna03\071318\
 Data File : VGD05.D
 Acq On : 13 Jul 2018 1:26 pm
 Operator :
 Sample : TUN,S37298
 Misc : DFTPP/PEM
 ALS Vial : 5 Sample Multiplier: 1

Integration File: normal.p

Method : G:\msbna03\071318\DFTPP03.M
 Title : MSBNA03 BNA DFTPP/PEM
 Last Update : Mon May 14 18:51:55 2018



AutoFind: Scans 440, 441, 442; Background Corrected with Scan 434

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.9	115672	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.8	131221	PASS
70	69	0.00	2	0.1	182	PASS
127	198	40	60	54.8	144562	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	263744	PASS
199	198	5	9	6.8	17818	PASS
275	198	10	30	28.4	74866	PASS
365	198	1	100	2.8	7256	PASS
441	443	0.01	100	80.7	37520	PASS
442	198	40	100	91.6	241664	PASS
443	442	17	23	19.2	46477	PASS

PEM Report

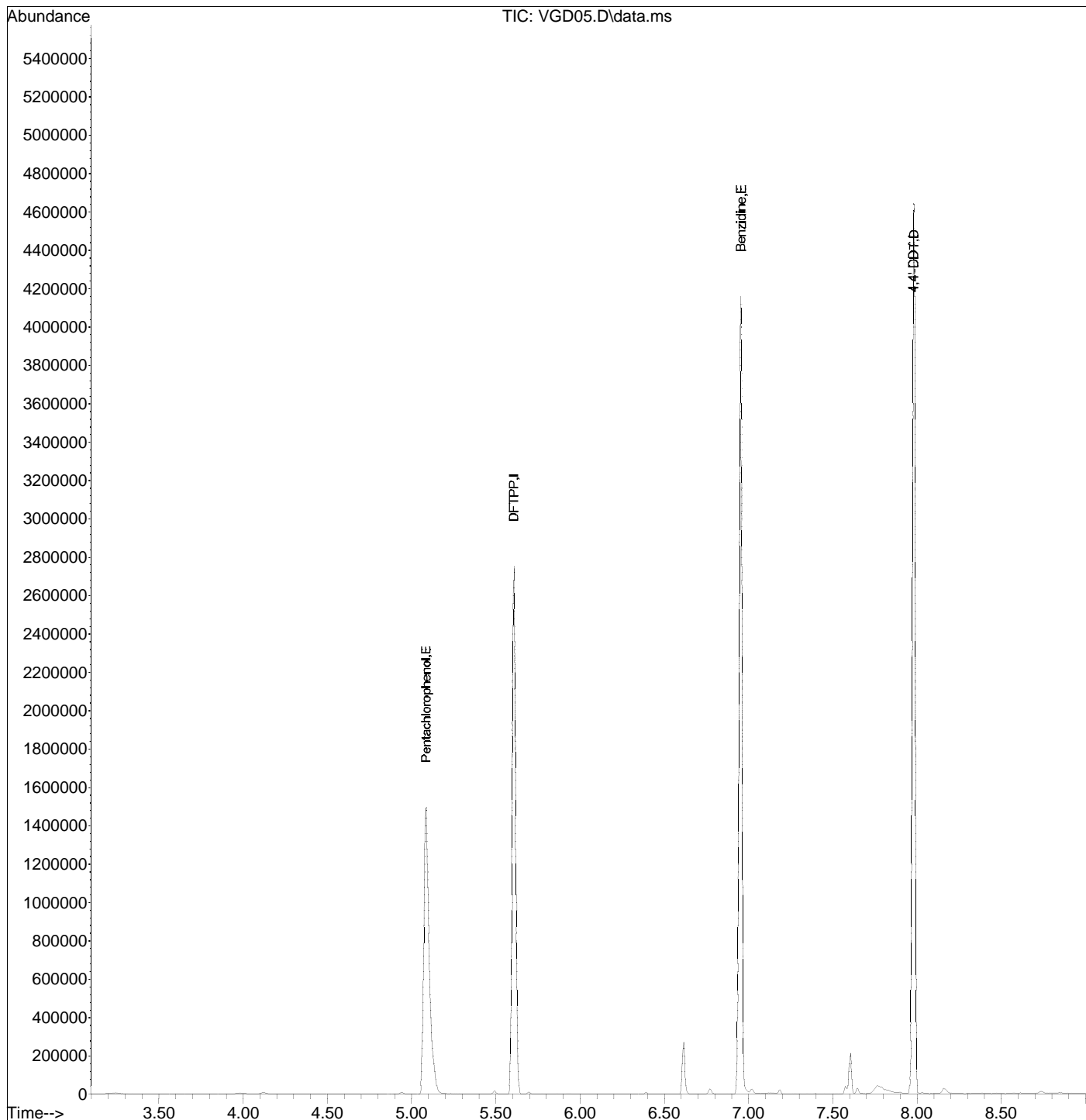
File Name : G:\msbna03\071318\VGD05.D
 Date Acquired : 13 Jul 2018 1:26 pm
 Sample Name : TUN,S37298
 Misc. Info : DFTPP/PEM
 Calib. Title : MSBNA03 BNA DFTPP/PEM
 Inst. Name : MSBNA03
 AcquisitionMeth: DFTPP03.M

Compound Name	Tailing Factor	RT	Area
Pentachlorophenol	1.747	5.09	391234
Benzidine	0.451	6.96	1970245
4,4'-DDT		7.98	973953
% Breakdown: 4,4'-DDT	LIMIT <=20%	0%	PASS
Tailing: Pentachlorophenol	8270C <5.0	1.7	PASS
	8270D <=2	2	PASS
Tailing: Benzidine	8270C <3.0	0.5	PASS
	8270D <=2	0	PASS

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\071318\
Data File : VGD05.D
Acq On : 13 Jul 2018 1:26 pm
Operator :
Sample : TUN,S37298
Misc : DFTPP/PEM
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 13 13:35:59 2018
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Mon May 14 18:51:55 2018
Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\071318\
 Data File : VGD05.D
 Acq On : 13 Jul 2018 1:26 pm
 Operator :
 Sample : TUN,S37298
 Misc : DFTPP/PEM
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 13 13:35:59 2018
 Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
 Quant Title : MSBNA03 BNA DFTPP/PEM
 QLast Update : Mon May 14 18:51:55 2018
 Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.607	198	423472	50.0000	ug/mL	0.00
4) 4,4'-DDT	7.979	235	973953	50.0000	ug/mL	0.00

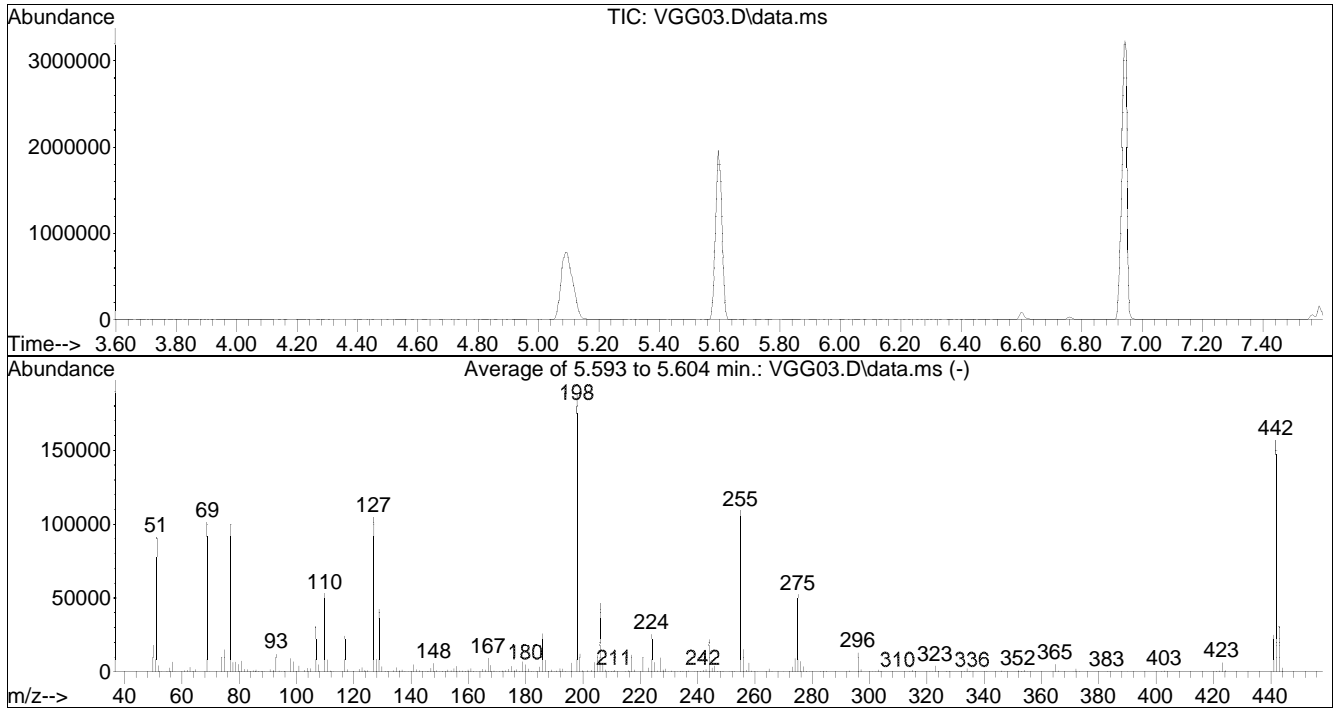
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
1) Pentachlorophenol	5.087	266	391234	89.9604	ug/mL	99
3) Benzidine	6.956	184	1970245	55.6732	ug/mL	96
5) 4,4'-DDE	7.185	246	2622	No CC lev	#	
6) 4,4'-DDD	7.602	235	43917	No CC lev		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : G:\msbna03\071618\
 Data File : VGG03.D
 Acq On : 16 Jul 2018 11:31 am
 Operator :
 Sample : TUN,S37298
 Misc : DFTPP/PEM
 ALS Vial : 3 Sample Multiplier: 1

Integration File: normal.p

Method : G:\msbna03\071618\DFTPP03.M
 Title : MSBNA03 BNA DFTPP/PEM
 Last Update : Mon May 14 18:51:55 2018



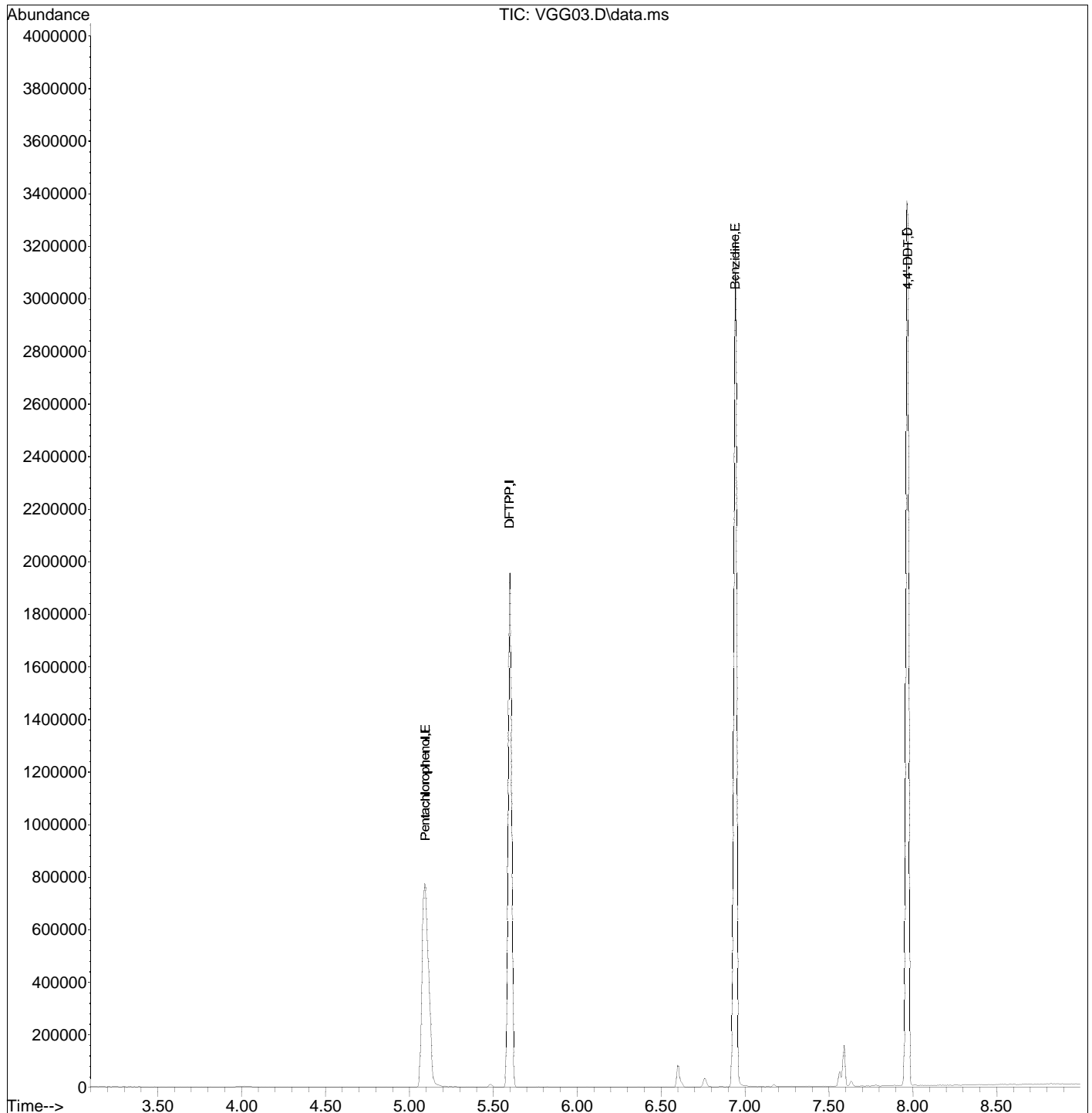
AutoFind: Scans 438, 439, 440; Background Corrected with Scan 432

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.5	91001	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.9	101162	PASS
70	69	0.00	2	0.2	207	PASS
127	198	40	60	55.6	104421	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	187648	PASS
199	198	5	9	6.8	12673	PASS
275	198	10	30	27.9	52325	PASS
365	198	1	100	2.8	5310	PASS
441	443	0.01	100	80.8	24928	PASS
442	198	40	100	83.5	156634	PASS
443	442	17	23	19.7	30845	PASS

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\071618\
Data File : VGG03.D
Acq On : 16 Jul 2018 11:31 am
Operator :
Sample : TUN,S37298
Misc : DFTPP/PEM
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 11:40:54 2018
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Mon May 14 18:51:55 2018
Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\071618\
 Data File : VGG03.D
 Acq On : 16 Jul 2018 11:31 am
 Operator :
 Sample : TUN,S37298
 Misc : DFTPP/PEM
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 11:40:54 2018
 Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
 Quant Title : MSBNA03 BNA DFTPP/PEM
 QLast Update : Mon May 14 18:51:55 2018
 Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.599	198	309107	50.0000	ug/mL	-0.02
4) 4,4'-DDT	7.970	235	710274	50.0000	ug/mL	-0.02

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
1) Pentachlorophenol	5.096	266	246632	56.7106	ug/mL	99
3) Benzidine	6.942	184	1591463	61.6082	ug/mL	96
5) 4,4'-DDE	7.170	246	1175	No CC lev	#	
6) 4,4'-DDD	7.587	235	32857	No CC lev		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ENTHALPY INITIAL CALIBRATION FOR 301314 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA03
 Calnum : 528278537001
 Units : ug/mL

Name : 3PAHSIM
 Date : 12-JUL-2018 12:44
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vgc07	528278537007	ICAL	12-JUL-2018 12:44	S36971
L2	vgc08	528278537008	ICAL	12-JUL-2018 13:17	S36972
L3	vgc09	528278537009	ICAL	12-JUL-2018 13:49	S36973
L4	vgc10	528278537010	ICAL	12-JUL-2018 14:21	S36974
L5	vgc11	528278537011	ICAL	12-JUL-2018 14:54	S36976
L6	vgc12	528278537012	ICAL	12-JUL-2018 15:26	S36977
L7	vgc13	528278537013	ICAL	12-JUL-2018 15:58	S36978

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r ² %RSD	Max %RSD	Min RF	Min r ²	Flg
Naphthalene	0.9956	1.0290	1.0486	1.0415	0.9995	0.9513	0.9070	AVRG		1.00395		0.9961	5	15	0.05	0.99	
Acenaphthylene	1.5465	1.5785	1.6263	1.6227	1.5770	1.4799	1.4506	AVRG		0.64329		1.5545	4	15	0.05	0.99	
Acenaphthene	0.9740	1.0021	1.0420	1.0356	1.0149	0.9513	0.9506	AVRG		1.00422		0.9958	4	15	0.05	0.99	
Fluorene	1.1911	1.1948	1.2165	1.2008	1.1733	1.0950	1.0149	AVRG		0.86565		1.1552	6	15	0.05	0.99	
Phenanthrene	0.9596	0.9546	1.0076	0.9998	0.9526	0.8660	0.8656	AVRG		1.05967		0.9437	6	15	0.05	0.99	
Anthracene	0.9474	0.9461	0.9880	0.9678	0.9408	0.8444	0.8258	AVRG		1.08353		0.9229	7	15	0.05	0.99	
Fluoranthene	1.1502	1.1553	1.1775	1.1671	1.1144	0.9946	1.0003	AVRG		0.90213		1.1085	7	15	0.05	0.99	
Pyrene	1.3508	1.3755	1.3817	1.4026	1.3681	1.2351	1.2601	AVRG		0.74677		1.3391	5	15	0.05	0.99	
Benzo(a)anthracene	1.2352	1.2297	1.2457	1.2580	1.2344	1.1105	1.1101	AVRG		0.83100		1.2034	5	15	0.05	0.99	
Chrysene	1.1355	1.1178	1.1758	1.1942	1.1929	1.0629	1.0444	AVRG		0.88343		1.1319	5	15	0.05	0.99	
Benzo(b)fluoranthene	1.2161	1.2305	1.2198	1.2467	1.2180	1.1341	1.1403	AVRG		0.83279		1.2008	4	15	0.05	0.99	
Benzo(k)fluoranthene	1.3774	1.1570	1.3690	1.3107	1.3702	1.1727	1.2924	AVRG		0.77353		1.2928	7	15	0.05	0.99	
Benzo(a)pyrene	1.0647	1.0836	1.1084	1.1296	1.1179	1.0457	1.0729	AVRG		0.91830		1.0890	3	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.1338	1.1838	1.2051	1.2310	1.2350	1.1729	1.2381	AVRG		0.83336		1.2000	3	15	0.05	0.99	
Dibenz(a,h)anthracene	0.9162	0.9410	0.9704	0.9843	0.9864	0.9582	1.0289	AVRG		1.03164		0.9693	4	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9352	0.9666	0.9859	0.9889	0.9816	0.9154	0.9577	AVRG		1.03990		0.9616	3	15	0.05	0.99	
Nitrobenzene-d5	0.4000	0.4045	0.4189	0.4290	0.4205	0.4093	0.4107	AVRG		2.41973		0.4133	2	15	0.05	0.99	
2-Fluorobiphenyl	1.5546	1.5661	1.5869	1.5544	1.5017	1.3729	1.3172	AVRG		0.66962		1.4934	7	15	0.05	0.99	
Terphenyl-d14	1.1544	1.1505	1.1637	1.1725	1.1535	1.0319	1.0677	AVRG		0.88672		1.1277	5	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.1000	0	0.2000	3	0.5000	5	1.0000	5	2.0000	0	5.0000	-4	10.000	-9
Acenaphthylene	0.1000	-1	0.2000	2	0.5000	5	1.0000	4	2.0000	1	5.0000	-5	10.000	-7
Acenaphthene	0.1000	-2	0.2000	1	0.5000	5	1.0000	4	2.0000	2	5.0000	-4	10.000	-5
Fluorene	0.1000	3	0.2000	3	0.5000	5	1.0000	4	2.0000	2	5.0000	-5	10.000	-12
Phenanthrene	0.1000	2	0.2000	1	0.5000	7	1.0000	6	2.0000	1	5.0000	-8	10.000	-8
Anthracene	0.1000	3	0.2000	3	0.5000	7	1.0000	5	2.0000	2	5.0000	-9	10.000	-11
Fluoranthene	0.1000	4	0.2000	4	0.5000	6	1.0000	5	2.0000	1	5.0000	-10	10.000	-10
Pyrene	0.1000	1	0.2000	3	0.5000	3	1.0000	5	2.0000	2	5.0000	-8	10.000	-6
Benzo(a)anthracene	0.1000	3	0.2000	2	0.5000	4	1.0000	5	2.0000	3	5.0000	-8	10.000	-8
Chrysene	0.1000	0	0.2000	-1	0.5000	4	1.0000	6	2.0000	5	5.0000	-6	10.000	-8
Benzo(b)fluoranthene	0.1000	1	0.2000	2	0.5000	2	1.0000	4	2.0000	1	5.0000	-6	10.000	-5
Benzo(k)fluoranthene	0.1000	7	0.2000	-11	0.5000	6	1.0000	1	2.0000	6	5.0000	-9	10.000	0
Benzo(a)pyrene	0.1000	-2	0.2000	0	0.5000	2	1.0000	4	2.0000	3	5.0000	-4	10.000	-1
Indeno(1,2,3-cd)pyrene	0.1000	-6	0.2000	-1	0.5000	0	1.0000	3	2.0000	3	5.0000	-2	10.000	3
Dibenz(a,h)anthracene	0.1000	-5	0.2000	-3	0.5000	0	1.0000	2	2.0000	2	5.0000	-1	10.000	6
Benzo(g,h,i)perylene	0.1000	-3	0.2000	1	0.5000	3	1.0000	3	2.0000	2	5.0000	-5	10.000	0
Nitrobenzene-d5	0.1000	-3	0.2000	-2	0.5000	1	1.0000	4	2.0000	2	5.0000	-1	10.000	-1
2-Fluorobiphenyl	0.1000	4	0.2000	5	0.5000	6	1.0000	4	2.0000	1	5.0000	-8	10.000	-12
Terphenyl-d14	0.1000	2	0.2000	2	0.5000	3	1.0000	4	2.0000	2	5.0000	-8	10.000	-5

JW1 07/13/18 [1,4-Dioxane]: Corrected automatically drawn baseline in multiple levels.

Analyst: JW1

Date: 07/13/18

Reviewer: LW

Date: 07/13/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301314 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528278537001

Name : 3PAHSIM
Cal Date : 12-JUL-2018

ICV 528278537015 (vgc15 12-JUL-2018) stds: S37605

Analyte	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.000	0.9263	ug/mL	-7	30	
Acenaphthylene	1.000	0.9526	ug/mL	-5	30	
Acenaphthene	1.000	0.9579	ug/mL	-4	20	
Fluorene	1.000	1.005	ug/mL	1	30	
Phenanthrene	1.000	0.9830	ug/mL	-2	30	
Anthracene	1.000	0.9534	ug/mL	-5	30	
Fluoranthene	1.000	0.9659	ug/mL	-3	20	
Pyrene	1.000	0.9444	ug/mL	-6	30	
Benzo(a)anthracene	1.000	0.9418	ug/mL	-6	30	
Chrysene	1.000	0.9209	ug/mL	-8	30	
Benzo(b)fluoranthene	1.000	0.9347	ug/mL	-7	30	
Benzo(k)fluoranthene	1.000	0.9263	ug/mL	-7	30	
Benzo(a)pyrene	1.000	0.9317	ug/mL	-7	20	
Indeno(1,2,3-cd)pyrene	1.000	0.9118	ug/mL	-9	30	
Dibenz(a,h)anthracene	1.000	0.9227	ug/mL	-8	30	
Benzo(g,h,i)perylene	1.000	0.9665	ug/mL	-3	30	

Analyst: JW1

Date: 07/13/18

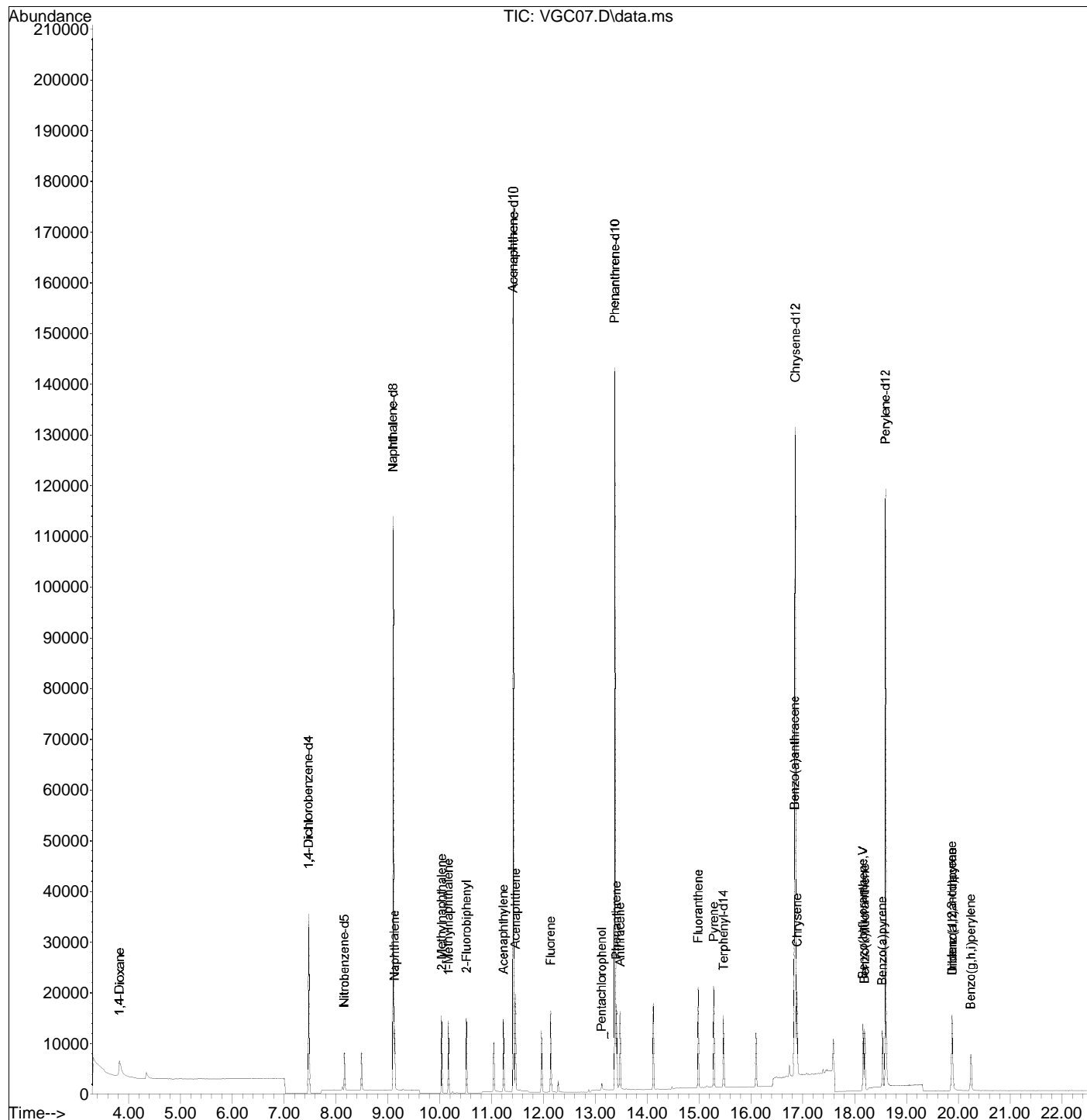
Reviewer: LW

Date: 07/13/18

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC07.D
 Acq On : 12 Jul 2018 12:44 pm
 Operator :
 Sample : ICAL,S36971
 Misc : ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 15:56:51 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC07.D
 Acq On : 12 Jul 2018 12:44 pm
 Operator :
 Sample : ICAL,S36971
 Misc : ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 15:56:51 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.468	152	28019	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.100	136	96261	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.418	164	67903	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.376	188	121401	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	104655	1.0000	ug/mL	0.00
23) Perylene-d12	18.594	264	91294	1.0000	ug/mL	0.00

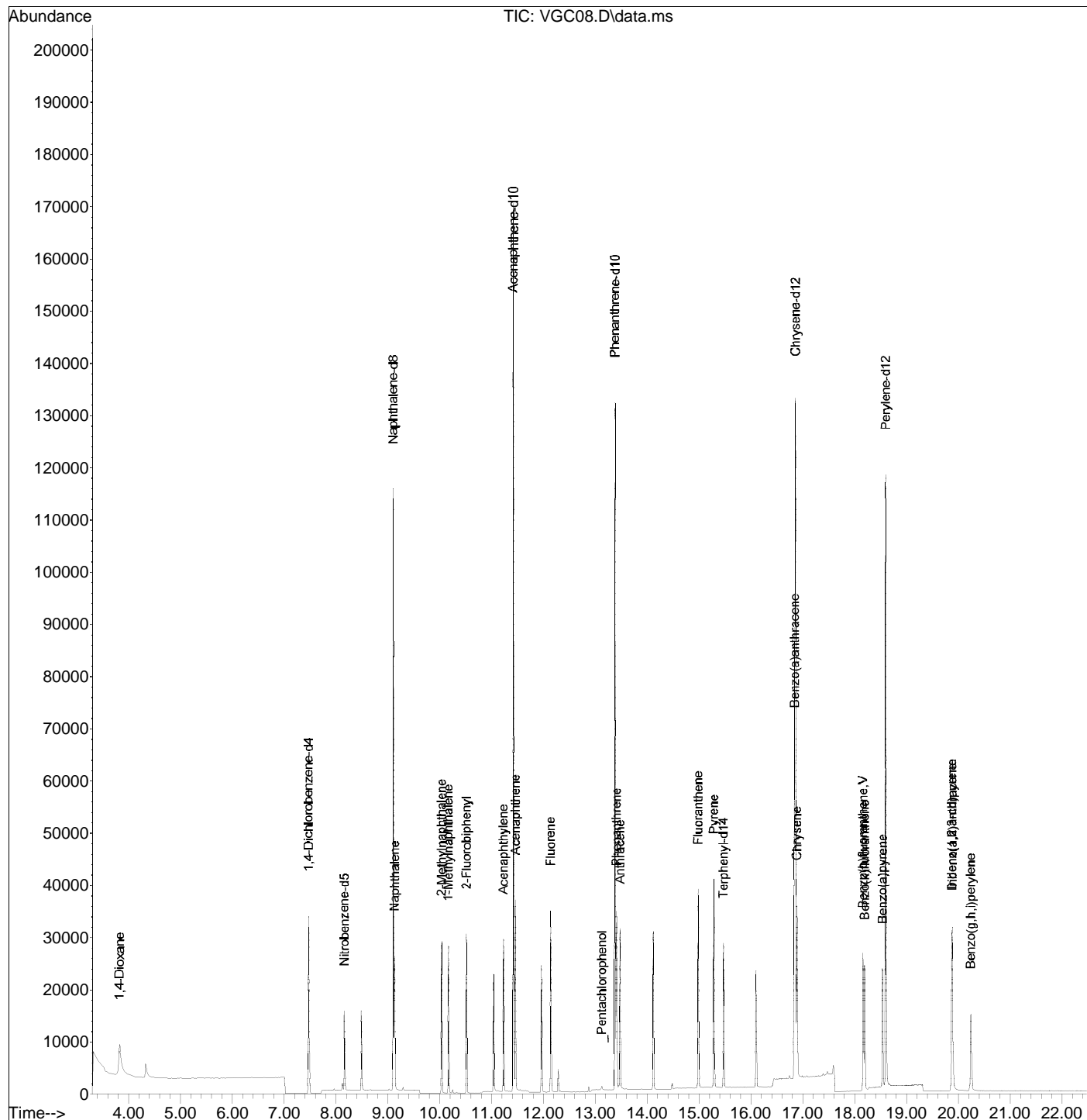
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.824	88	3883m	0.3057	ug/mL	
4) Nitrobenzene-d5	8.160	82	3850	0.0947	ug/mL	81
5) Naphthalene	9.128	128	9584	0.1061	ug/mL	99
6) 2-Methylnaphthalene	10.034	142	7600	0.1122	ug/mL	94
7) 1-Methylnaphthalene	10.165	142	7138	0.1152	ug/mL	99
9) 2-Fluorobiphenyl	10.515	172	10556	0.1092	ug/mL	97
10) Acenaphthylene	11.226	152	10501	0.0956	ug/mL	100
11) Acenaphthene	11.458	154	6614	0.1021	ug/mL	90
12) Fluorene	12.136	166	8088	0.1005	ug/mL	97
14) _Pentachlorophenol	13.121	266	788	2.3385	ug/mL	93
15) Phenanthrene	13.405	178	11650	0.0979	ug/mL	97
16) Anthracene	13.476	178	11502	0.0976	ug/mL	97
17) Fluoranthene	14.981	202	13964	0.1026	ug/mL	98
19) Pyrene	15.283	202	14137	0.1002	ug/mL	100
20) Terphenyl-d14	15.468	244	12081	0.1033	ug/mL	89
21) Benzo(a)anthracene	16.840	228	12927	0.1005	ug/mL	97
22) Chrysene	16.889	228	11884	0.0986	ug/mL	94
24) Benzo(b)fluoranthene	18.158	252	11102	0.0979	ug/mL	91
25) Benzo(k)fluoranthene	18.191	252	12575	0.0970	ug/mL	89
26) Benzo(a)pyrene	18.530	252	9720	0.0939	ug/mL	92
27) Indeno(1,2,3-cd)pyrene	19.873	276	10351	0.0898	ug/mL	# 53
28) Dibenz(a,h)anthracene	19.880	278	8364	0.1019	ug/mL	86
29) Benzo(g,h,i)perylene	20.240	276	8538	0.0920	ug/mL	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC08.D
 Acq On : 12 Jul 2018 1:17 pm
 Operator :
 Sample : ICAL,S36972
 Misc : ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 12 15:57:57 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC08.D
 Acq On : 12 Jul 2018 1:17 pm
 Operator :
 Sample : ICAL,S36972
 Misc : ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 12 15:57:57 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.468	152	27627	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.101	136	94411	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.418	164	66528	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.377	188	120309	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	102227	1.0000	ug/mL	0.00
23) Perylene-d12	18.593	264	89415	1.0000	ug/mL	0.00

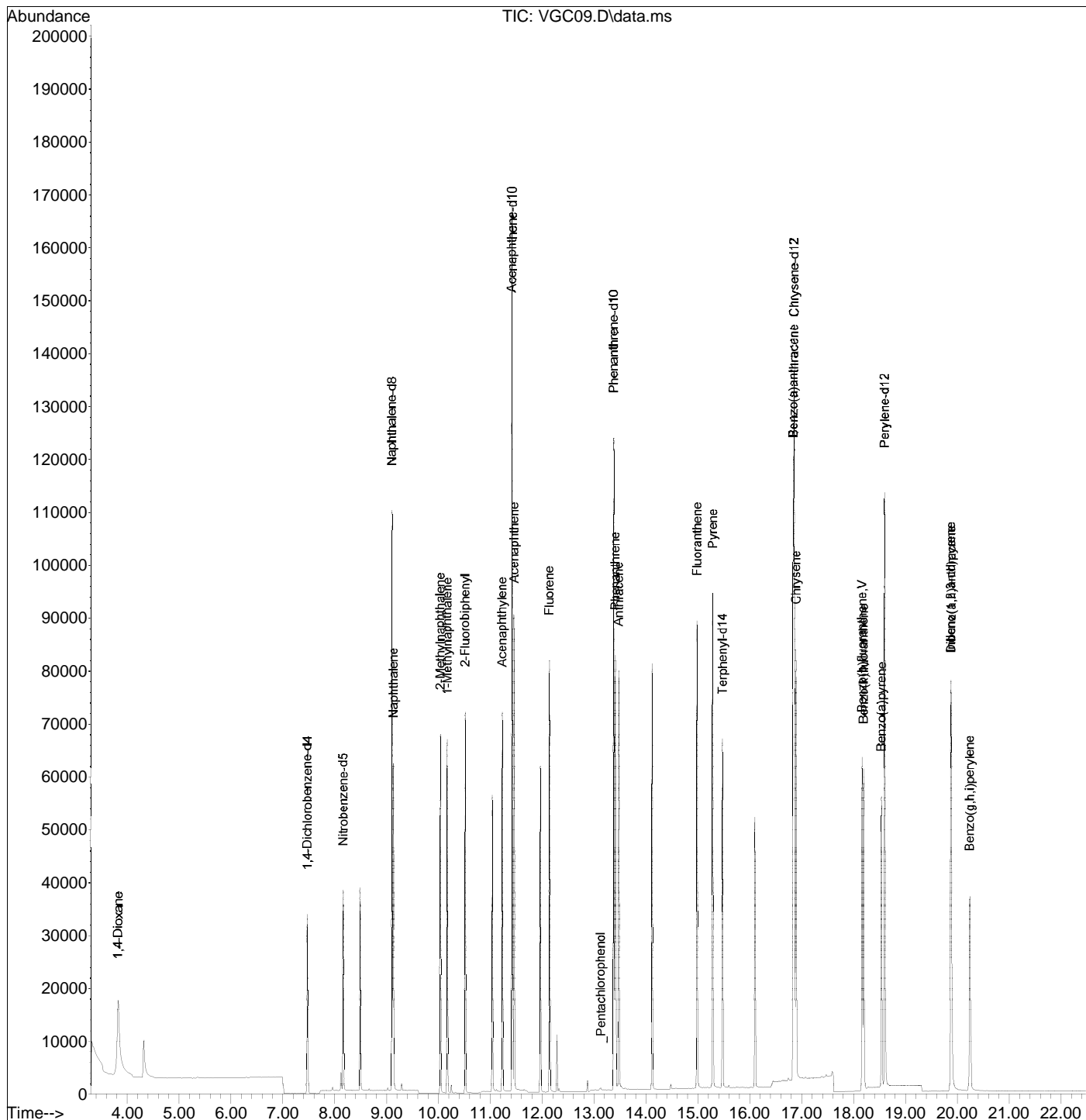
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.824	88	9338m	0.7457	ug/mL	
4) Nitrobenzene-d5	8.161	82	7637	0.1916	ug/mL	# 76
5) Naphthalene	9.129	128	19429	0.2194	ug/mL	99
6) 2-Methylnaphthalene	10.035	142	15082	0.2271	ug/mL	93
7) 1-Methylnaphthalene	10.166	142	13920	0.2292	ug/mL	98
9) 2-Fluorobiphenyl	10.512	172	20838	0.2201	ug/mL	98
10) Acenaphthylene	11.226	152	21003	0.1951	ug/mL	100
11) Acenaphthene	11.458	154	13334	0.2101	ug/mL	86
12) Fluorene	12.136	166	15898	0.2017	ug/mL	99
14) _Pentachlorophenol	13.122	266	366	1.0960	ug/mL	94
15) Phenanthrene	13.407	178	22969	0.1947	ug/mL	99
16) Anthracene	13.472	178	22766	0.1949	ug/mL	99
17) Fluoranthene	14.981	202	27799	0.2061	ug/mL	98
19) Pyrene	15.282	202	28122	0.2040	ug/mL	99
20) Terphenyl-d14	15.468	244	23523	0.2059	ug/mL	90
21) Benzo(a)anthracene	16.840	228	25142	0.2001	ug/mL	97
22) Chrysene	16.885	228	22854	0.1942	ug/mL	95
24) Benzo(b)fluoranthene	18.157	252	22005	0.1982	ug/mL	95
25) Benzo(k)fluoranthene	18.187	252	20691	0.1630	ug/mL	96
26) Benzo(a)pyrene	18.533	252	19378	0.1911	ug/mL	98
27) Indeno(1,2,3-cd)pyrene	19.870	276	21170	0.1874	ug/mL	55
28) Dibenz(a,h)anthracene	19.877	278	16828	0.2092	ug/mL	89
29) Benzo(g,h,i)perylene	20.236	276	17285	0.1902	ug/mL	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC09.D
 Acq On : 12 Jul 2018 1:49 pm
 Operator :
 Sample : ICAL,S36973
 Misc : ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 12 15:58:56 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC09.D
 Acq On : 12 Jul 2018 1:49 pm
 Operator :
 Sample : ICAL,S36973
 Misc : ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 12 15:58:56 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.467	152	27043	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.102	136	91129	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.414	164	62951	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.377	188	114788	1.0000	ug/mL	0.00
18) Chrysene-d12	16.851	240	97544	1.0000	ug/mL	0.00
23) Perylene-d12	18.594	264	85860	1.0000	ug/mL	0.00

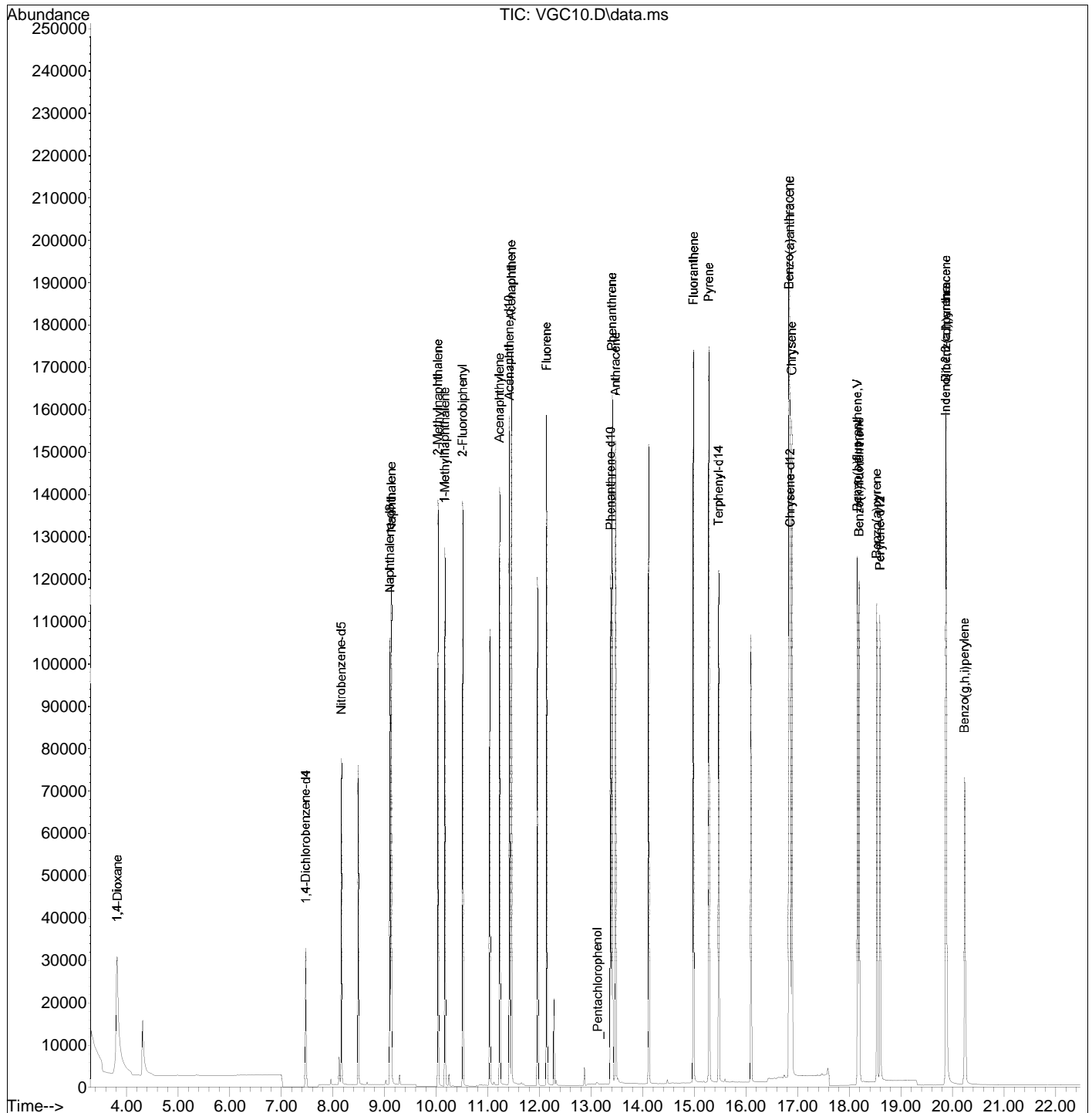
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.824	88	26380m	2.1521	ug/mL	
4) Nitrobenzene-d5	8.162	82	19086	0.4962	ug/mL	# 76
5) Naphthalene	9.130	128	47779	0.5589	ug/mL	99
6) 2-Methylnaphthalene	10.035	142	36859	0.5750	ug/mL	91
7) 1-Methylnaphthalene	10.166	142	33444	0.5704	ug/mL	95
9) 2-Fluorobiphenyl	10.512	172	49950	0.5575	ug/mL	98
10) Acenaphthylene	11.226	152	51190	0.5026	ug/mL	99
11) Acenaphthene	11.458	154	32799	0.5461	ug/mL	85
12) Fluorene	12.135	166	38289	0.5133	ug/mL	99
14) _Pentachlorophenol	13.122	266	215	0.6748	ug/mL	96
15) Phenanthrene	13.407	178	57833	0.5138	ug/mL	99
16) Anthracene	13.472	178	56706	0.5089	ug/mL	99
17) Fluoranthene	14.982	202	67579	0.5250	ug/mL	98
19) Pyrene	15.283	202	67387	0.5124	ug/mL	99
20) Terphenyl-d14	15.469	244	56757	0.5208	ug/mL	90
21) Benzo(a)anthracene	16.836	228	60753	0.5067	ug/mL	97
22) Chrysene	16.886	228	57347	0.5107	ug/mL	95
24) Benzo(b)fluoranthene	18.157	252	52365	0.4912	ug/mL	97
25) Benzo(k)fluoranthene	18.190	252	58772	0.4821	ug/mL	96
26) Benzo(a)pyrene	18.530	252	47585	0.4887	ug/mL	98
27) Indeno(1,2,3-cd)pyrene	19.871	276	51735	0.4771	ug/mL	56
28) Dibenz(a,h)anthracene	19.877	278	41658	0.5394	ug/mL	90
29) Benzo(g,h,i)perylene	20.237	276	42326	0.4849	ug/mL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC10.D
 Acq On : 12 Jul 2018 2:21 pm
 Operator :
 Sample : ICAL,S36974
 Misc : ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 12 15:59:40 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC10.D
 Acq On : 12 Jul 2018 2:21 pm
 Operator :
 Sample : ICAL,S36974
 Misc : ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 12 15:59:40 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.468	152	26365	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.101	136	88717	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.418	164	61127	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.376	188	111222	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	92095	1.0000	ug/mL	0.00
23) Perylene-d12	18.593	264	83344	1.0000	ug/mL	0.00

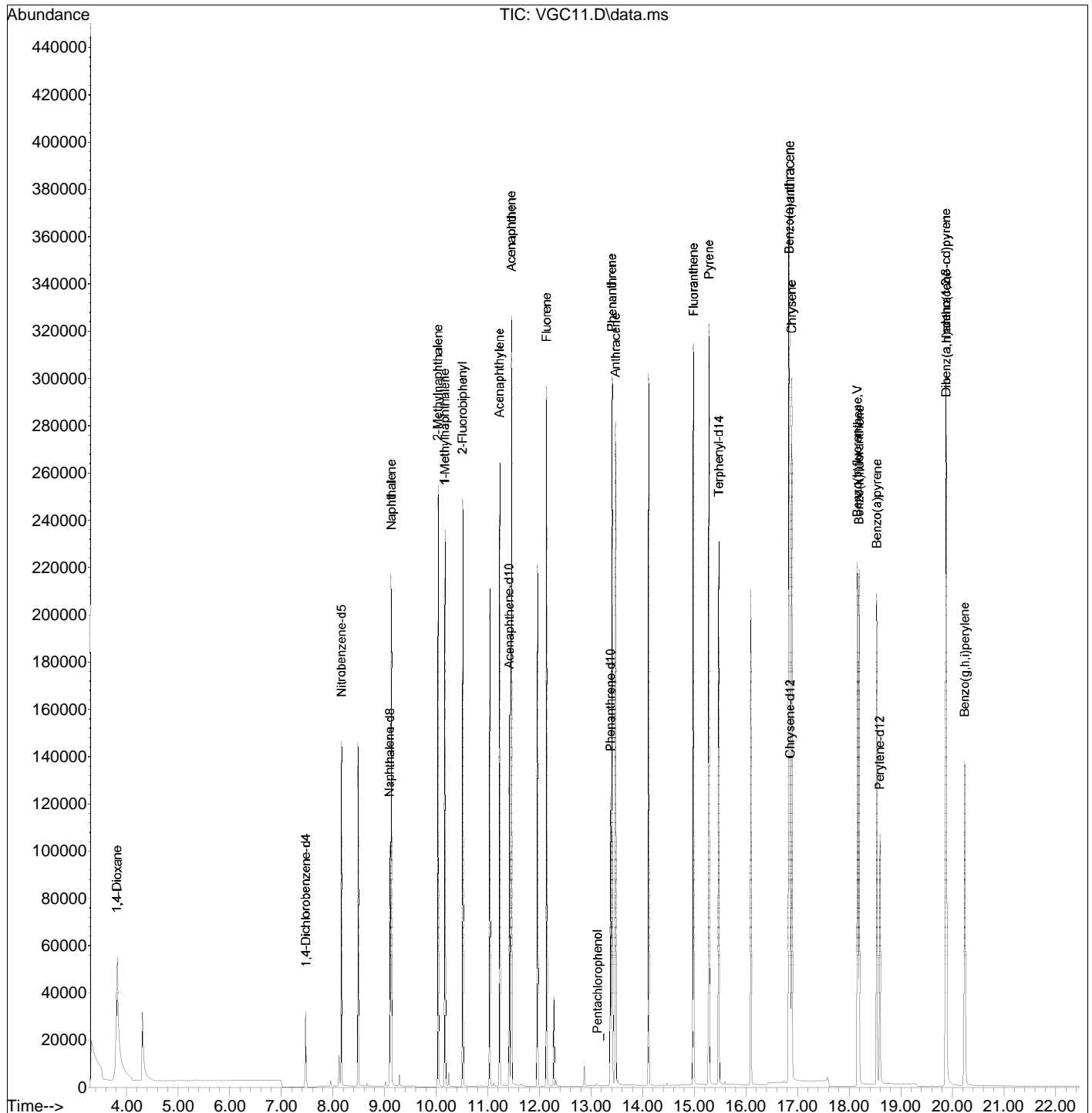
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.822	88	54001m	4.5188	ug/mL	
4) Nitrobenzene-d5	8.161	82	38062	1.0164	ug/mL	# 75
5) Naphthalene	9.129	128	92400	1.1102	ug/mL	99
6) 2-Methylnaphthalene	10.035	142	70765	1.1340	ug/mL	91
7) 1-Methylnaphthalene	10.166	142	63586	1.1139	ug/mL	97
9) 2-Fluorobiphenyl	10.511	172	95013	1.0920	ug/mL	98
10) Acenaphthylene	11.227	152	99192	1.0030	ug/mL	100
11) Acenaphthene	11.459	154	63301	1.0854	ug/mL	85
12) Fluorene	12.136	166	73402	1.0134	ug/mL	98
14) _Pentachlorophenol	13.122	266	170	0.5507	ug/mL	87
15) Phenanthrene	13.406	178	111199	1.0195	ug/mL	98
16) Anthracene	13.471	178	107637	0.9969	ug/mL	99
17) Fluoranthene	14.982	202	129806	1.0408	ug/mL	97
19) Pyrene	15.283	202	129169	1.0403	ug/mL	100
20) Terphenyl-d14	15.469	244	107979	1.0494	ug/mL	91
21) Benzo(a)anthracene	16.835	228	115860	1.0235	ug/mL	98
22) Chrysene	16.885	228	109983	1.0373	ug/mL	96
24) Benzo(b)fluoranthene	18.156	252	103904	1.0041	ug/mL	98
25) Benzo(k)fluoranthene	18.189	252	109235	0.9230	ug/mL	96
26) Benzo(a)pyrene	18.530	252	94145	0.9961	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.867	276	102594	0.9746	ug/mL	56
28) Dibenz(a,h)anthracene	19.874	278	82037	1.0944	ug/mL	90
29) Benzo(g,h,i)perylene	20.234	276	82423	0.9728	ug/mL	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC11.D
 Acq On : 12 Jul 2018 2:54 pm
 Operator :
 Sample : ICAL,S36976
 Misc : ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 12 16:00:22 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC11.D
 Acq On : 12 Jul 2018 2:54 pm
 Operator :
 Sample : ICAL,S36976
 Misc : ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 12 16:00:22 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.468	152	25428	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.101	136	85465	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.414	164	58565	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.377	188	108363	1.0000	ug/mL	0.00
18) Chrysene-d12	16.856	240	86900	1.0000	ug/mL	0.00
23) Perylene-d12	18.594	264	79249	1.0000	ug/mL	0.00

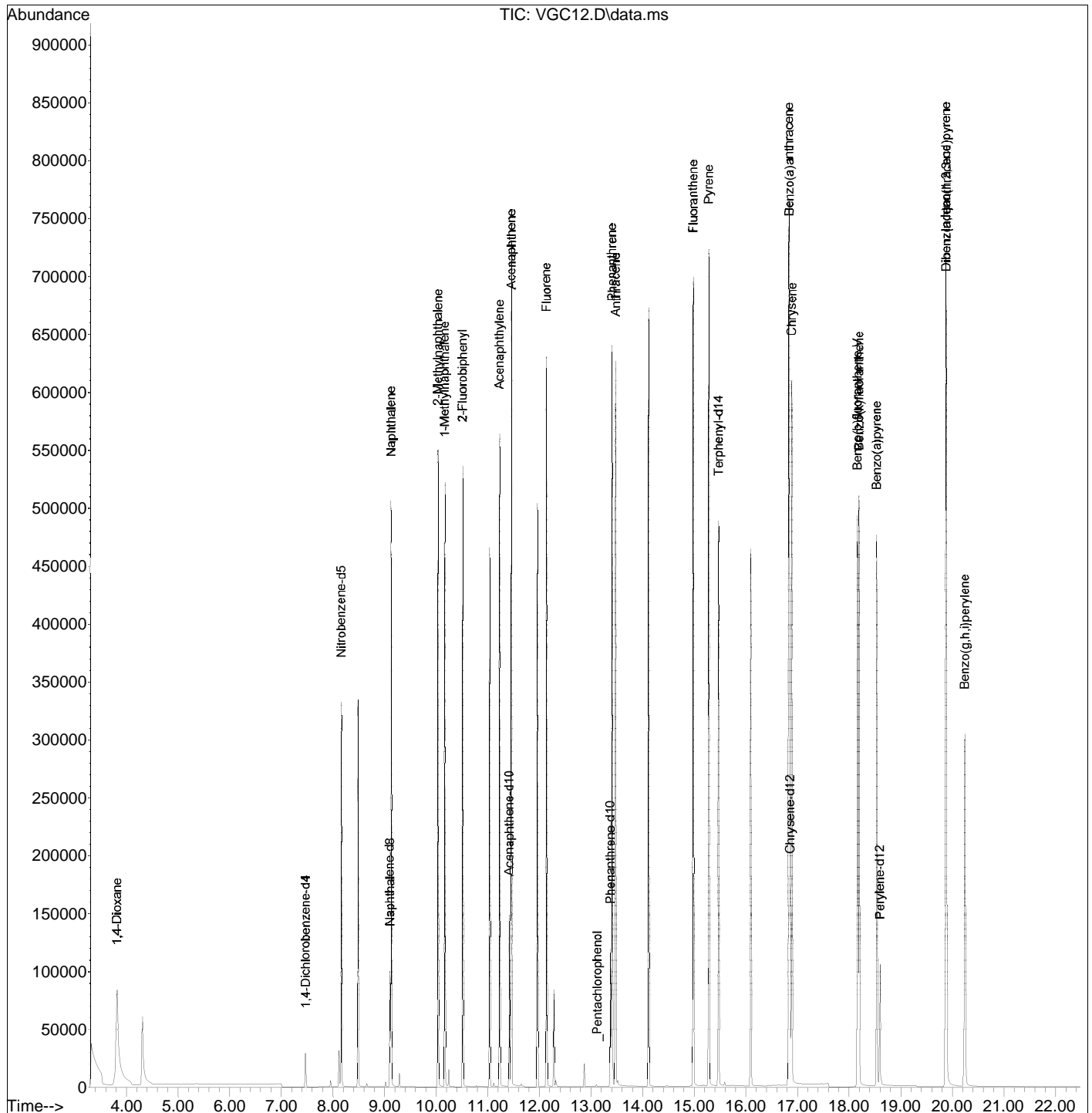
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.813	88	103844m	9.0098	ug/mL	
4) Nitrobenzene-d5	8.161	82	71876	1.9923	ug/mL	# 76
5) Naphthalene	9.129	128	170841	2.1307	ug/mL	99
6) 2-Methylnaphthalene	10.035	142	131574	2.1886	ug/mL	90
7) 1-Methylnaphthalene	10.166	142	118974	2.1636	ug/mL	96
9) 2-Fluorobiphenyl	10.512	172	175898	2.1101	ug/mL	97
10) Acenaphthylene	11.226	152	184719	1.9494	ug/mL	100
11) Acenaphthene	11.458	154	118876	2.1275	ug/mL	85
12) Fluorene	12.135	166	137429	1.9803	ug/mL	99
14) _Pentachlorophenol	13.122	266	135	0.4488	ug/mL	90
15) Phenanthrene	13.406	178	206454	1.9428	ug/mL	98
16) Anthracene	13.471	178	203902	1.9382	ug/mL	99
17) Fluoranthene	14.983	202	241520	1.9876	ug/mL	97
19) Pyrene	15.284	202	237768	2.0294	ug/mL	99
20) Terphenyl-d14	15.470	244	200475	2.0647	ug/mL	91
21) Benzo(a)anthracene	16.841	228	214536	2.0085	ug/mL	97
22) Chrysene	16.886	228	207326	2.0723	ug/mL	96
24) Benzo(b)fluoranthene	18.157	252	193054	1.9620	ug/mL	97
25) Benzo(k)fluoranthene	18.190	252	217170	1.9299	ug/mL	95
26) Benzo(a)pyrene	18.534	252	177189	1.9717	ug/mL	98
27) Indeno(1,2,3-cd)pyrene	19.872	276	195751	1.9556	ug/mL	57
28) Dibenz(a,h)anthracene	19.879	278	156341	2.1934	ug/mL	90
29) Benzo(g,h,i)perylene	20.235	276	155587	1.9312	ug/mL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC12.D
 Acq On : 12 Jul 2018 3:26 pm
 Operator :
 Sample : ICAL,S36977
 Misc : ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 12 16:01:10 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC12.D
 Acq On : 12 Jul 2018 3:26 pm
 Operator :
 Sample : ICAL,S36977
 Misc : ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 12 16:01:10 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.468	152	24720	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.101	136	81902	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.418	164	56294	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.376	188	106569	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	84940	1.0000	ug/mL	0.00
23) Perylene-d12	18.593	264	76769	1.0000	ug/mL	0.00

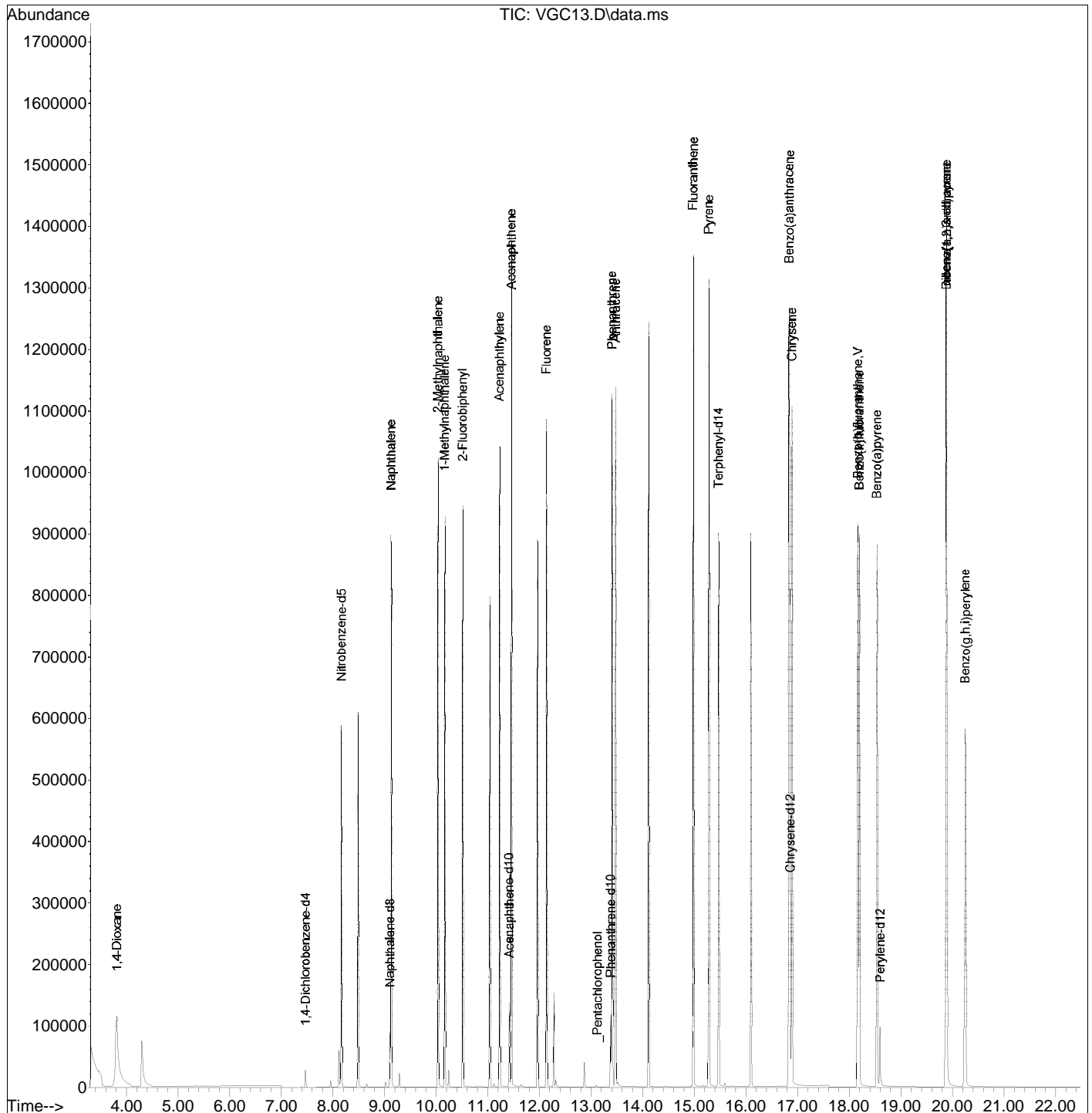
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.811	88	170459m	15.2131	ug/mL	
4) Nitrobenzene-d5	8.161	82	167628	4.8486	ug/mL	# 77
5) Naphthalene	9.129	128	389575	5.0701	ug/mL	99
6) 2-Methylnaphthalene	10.035	142	294037	5.1039	ug/mL	93
7) 1-Methylnaphthalene	10.166	142	270879	5.1403	ug/mL	98
9) 2-Fluorobiphenyl	10.511	172	386422	4.8227	ug/mL	95
10) Acenaphthylene	11.227	152	416550	4.5734	ug/mL	99
11) Acenaphthene	11.459	154	267772	4.9857	ug/mL	86
12) Fluorene	12.136	166	308220	4.6205	ug/mL	98
14) _Pentachlorophenol	13.115	266	120	0.4057	ug/mL	94
15) Phenanthrene	13.405	178	461434	4.4154	ug/mL	97
16) Anthracene	13.476	178	449917	4.3487	ug/mL	97
17) Fluoranthene	14.982	202	529978	4.4349	ug/mL	95
19) Pyrene	15.283	202	524554	4.5805	ug/mL	98
20) Terphenyl-d14	15.469	244	438264	4.6179	ug/mL	90
21) Benzo(a)anthracene	16.840	228	471643	4.5175	ug/mL	97
22) Chrysene	16.885	228	451418	4.6163	ug/mL	97
24) Benzo(b)fluoranthene	18.160	252	435312	4.5671	ug/mL	95
25) Benzo(k)fluoranthene	18.190	252	450129	4.1293	ug/mL	96
26) Benzo(a)pyrene	18.533	252	401386	4.6107	ug/mL	99
27) Indeno(1,2,3-cd)pyrene	19.873	276	450208	4.6430	ug/mL	56
28) Dibenz(a,h)anthracene	19.880	278	367789	5.3265	ug/mL	89
29) Benzo(g,h,i)perylene	20.240	276	351382	4.5024	ug/mL	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC13.D
 Acq On : 12 Jul 2018 3:58 pm
 Operator :
 Sample : ICAL,S36978
 Misc : ICAL
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 12 16:23:53 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC13.D
 Acq On : 12 Jul 2018 3:58 pm
 Operator :
 Sample : ICAL,S36978
 Misc : ICAL
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 12 16:23:53 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Jul 12 12:24:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.469	152	23221	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.100	136	76399	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.414	164	52906	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.376	188	96402	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	75729	1.0000	ug/mL	0.00
23) Perylene-d12	18.596	264	69927	1.0000	ug/mL	0.00

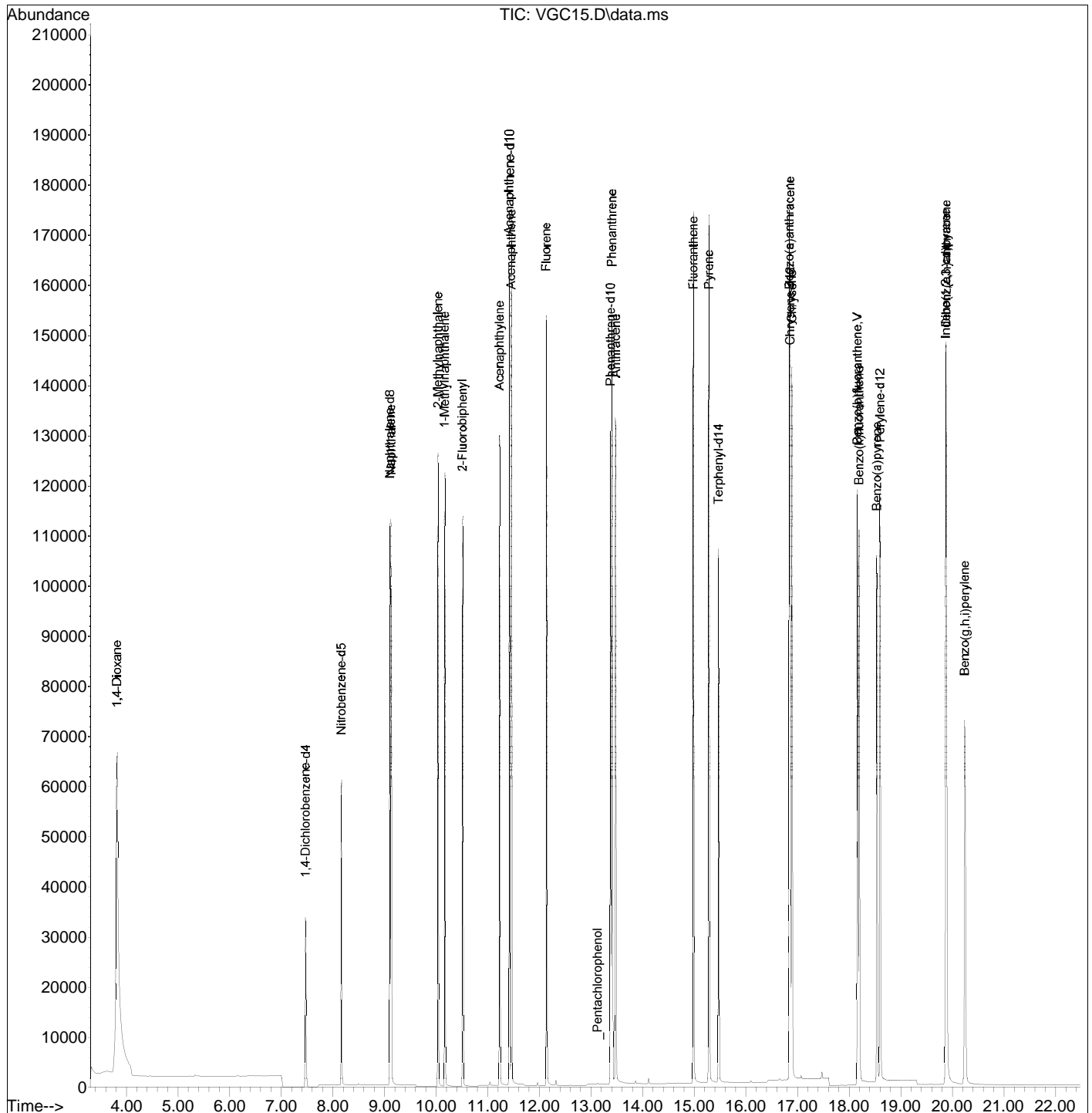
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.811	88	256971m	24.4147	ug/mL	
4) Nitrobenzene-d5	8.164	82	313794	9.7301	ug/mL	# 74
5) Naphthalene	9.128	128	692918	9.6675	ug/mL	97
6) 2-Methylnaphthalene	10.035	142	533930	9.9355	ug/mL	92
7) 1-Methylnaphthalene	10.166	142	484724	9.8608	ug/mL	98
9) 2-Fluorobiphenyl	10.511	172	696853	9.2539	ug/mL	92
10) Acenaphthylene	11.227	152	767430	8.9655	ug/mL	97
11) Acenaphthene	11.459	154	502905	9.9633	ug/mL	86
12) Fluorene	12.136	166	536926	8.5644	ug/mL	99
14) _Pentachlorophenol	13.121	266	145	0.5419	ug/mL	79
15) Phenanthrene	13.405	178	834444	8.8268	ug/mL	95
16) Anthracene	13.477	178	796112	8.5065	ug/mL	96
17) Fluoranthene	14.983	202	964324	8.9205	ug/mL	93
19) Pyrene	15.284	202	954230	9.3460	ug/mL	96
20) Terphenyl-d14	15.469	244	808579	9.5561	ug/mL	88
21) Benzo(a)anthracene	16.840	228	840636	9.0312	ug/mL	98
22) Chrysene	16.890	228	790926	9.0719	ug/mL	97
24) Benzo(b)fluoranthene	18.163	252	797393	9.1844	ug/mL	91
25) Benzo(k)fluoranthene	18.196	252	903758	9.1019	ug/mL	91
26) Benzo(a)pyrene	18.536	252	750212	9.4608	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.881	276	865757	9.8022	ug/mL	# 52
28) Dibenz(a,h)anthracene	19.884	278	719477	11.4394	ug/mL	86
29) Benzo(g,h,i)perylene	20.247	276	669677	9.4204	ug/mL	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC15.D
 Acq On : 12 Jul 2018 6:32 pm
 Operator :
 Sample : ICV,S37605
 Misc : ICV
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 13 10:54:50 2018
 Quant Method : G:\msbna03\071218\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071218\
 Data File : VGC15.D
 Acq On : 12 Jul 2018 6:32 pm
 Operator :
 Sample : ICV,S37605
 Misc : ICV
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 13 10:54:50 2018
 Quant Method : G:\msbna03\071218\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.469	152	27453	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.100	136	93985	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.418	164	62709	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.376	188	115730	1.0000	ug/mL	0.00
18) Chrysene-d12	16.855	240	99936	1.0000	ug/mL	0.00
23) Perylene-d12	18.594	264	87895	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.812	88	124595m	11.6926	ug/mL	
4) Nitrobenzene-d5	8.160	82	30247	0.7787	ug/mL	# 77
5) Naphthalene	9.128	128	86714	0.9263	ug/mL	100
6) 2-Methylnaphthalene	10.034	142	64714	0.8956	ug/mL	94
7) 1-Methylnaphthalene	10.165	142	59410	0.8991	ug/mL	99
9) 2-Fluorobiphenyl	10.511	172	80740	0.8622	ug/mL	95
10) Acenaphthylene	11.226	152	92857	0.9526	ug/mL	99
11) Acenaphthene	11.458	154	59818	0.9579	ug/mL	88
12) Fluorene	12.136	166	72831	1.0054	ug/mL	100
14) _Pentachlorophenol	13.121	266	142	0.4814	ug/mL	86
15) Phenanthrene	13.406	178	107355	0.9830	ug/mL	99
16) Anthracene	13.477	178	101836	0.9534	ug/mL	97
17) Fluoranthene	14.982	202	123913	0.9659	ug/mL	98
19) Pyrene	15.283	202	126391	0.9444	ug/mL	100
20) Terphenyl-d14	15.469	244	91681	0.8135	ug/mL	90
21) Benzo(a)anthracene	16.840	228	113264	0.9418	ug/mL	97
22) Chrysene	16.890	228	104170	0.9209	ug/mL	95
24) Benzo(b)fluoranthene	18.158	252	98654	0.9347	ug/mL	98
25) Benzo(k)fluoranthene	18.191	252	105253	0.9263	ug/mL	97
26) Benzo(a)pyrene	18.534	252	89174	0.9317	ug/mL	98
27) Indeno(1,2,3-cd)pyrene	19.870	276	96170	0.9118	ug/mL	57
28) Dibenz(a,h)anthracene	19.876	278	78614	0.9227	ug/mL	90
29) Benzo(g,h,i)perylene	20.236	276	81694	0.9665	ug/mL	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Continuing Calibration Verification Raw Data

ENTHALPY CONTINUING CALIBRATION FOR 301314 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03
Seqnum : 528280080006
Cal : 528278537001
Standards: S36974

Run Name : CCV
File : vgd06
Caldate : 12-JUL-2018

IDF : 1.0
Time : 13-JUL-2018 13:46

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	0.9961	1.0464	1.000	1.051	ug/mL	5	30	0.0500	
Acenaphthylene	1.5545	1.7469	1.000	1.124	ug/mL	12	30	0.0500	
Acenaphthene	0.9958	1.0510	1.000	1.056	ug/mL	6	20	0.0500	
Fluorene	1.1552	1.2329	1.000	1.067	ug/mL	7	30	0.0500	
Phenanthrene	0.9437	1.0199	1.000	1.081	ug/mL	8	30	0.0500	
Anthracene	0.9229	0.9926	1.000	1.076	ug/mL	8	30	0.0500	
Fluoranthene	1.1085	1.1706	1.000	1.056	ug/mL	6	20	0.0500	
Pyrene	1.3391	1.4342	1.000	1.071	ug/mL	7	30	0.0500	
Benzo(a)anthracene	1.2034	1.2867	1.000	1.069	ug/mL	7	30	0.0500	
Chrysene	1.1319	1.2083	1.000	1.068	ug/mL	7	30	0.0500	
Benzo(b)fluoranthene	1.2008	1.2374	1.000	1.031	ug/mL	3	30	0.0500	
Benzo(k)fluoranthene	1.2928	1.4007	1.000	1.084	ug/mL	8	30	0.0500	
Benzo(a)pyrene	1.0890	1.1307	1.000	1.038	ug/mL	4	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2000	1.1335	1.000	0.9446	ug/mL	-6	30	0.0500	
Dibenz(a,h)anthracene	0.9693	0.8891	1.000	0.9172	ug/mL	-8	30	0.0500	
Benzo(g,h,i)perylene	0.9616	0.9133	1.000	0.9497	ug/mL	-5	30	0.0500	
Nitrobenzene-d5	0.4133	0.3647	1.000	0.8825	ug/mL	-12	30	0.0500	
2-Fluorobiphenyl	1.4934	1.5671	1.000	1.049	ug/mL	5	30	0.0500	
Terphenyl-d14	1.1277	1.1298	1.000	1.002	ug/mL	0	30	0.0500	

Analyst: JW1

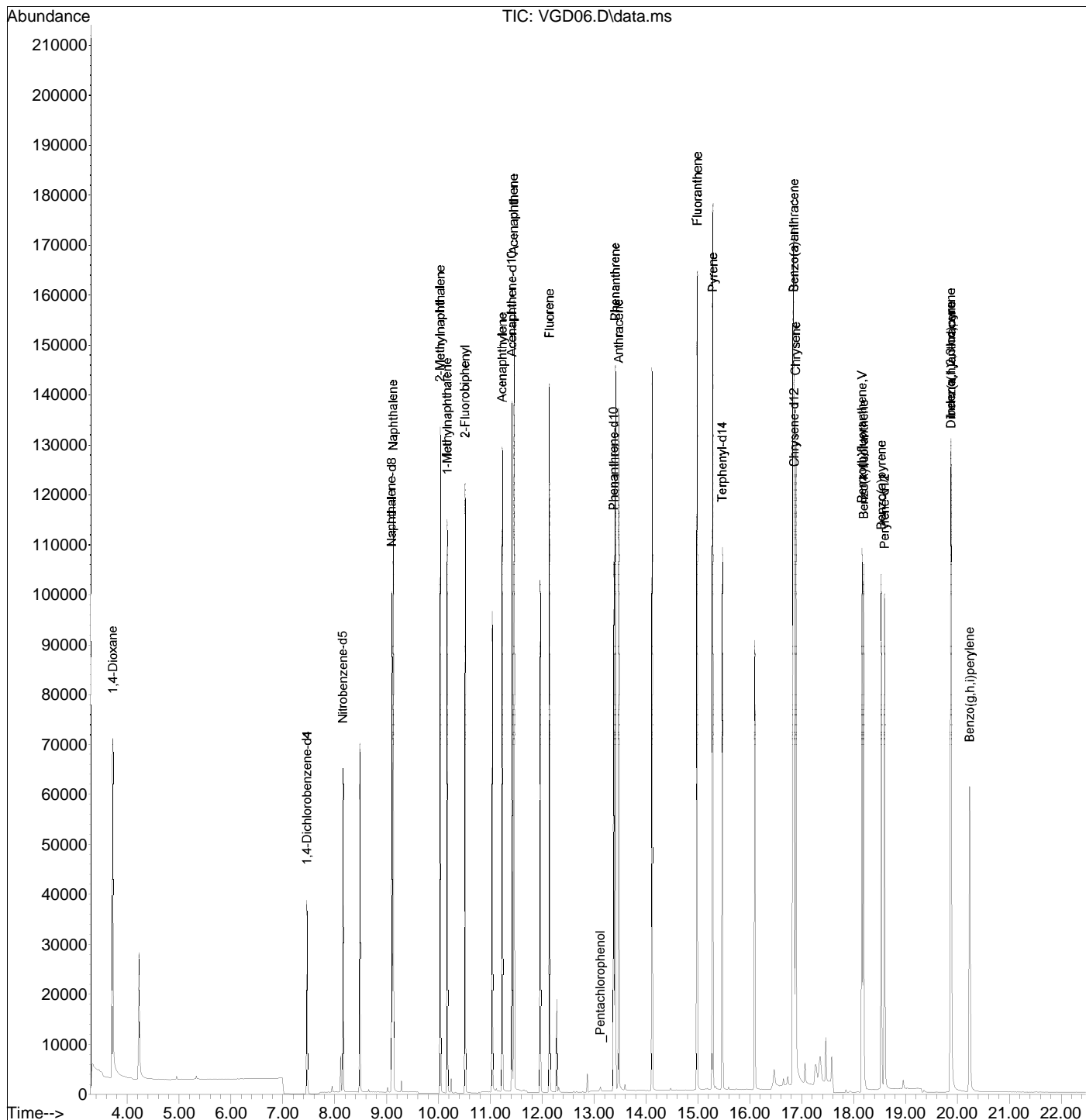
Date: 07/16/18

Reviewer: LW

Date: 07/16/18

Data Path : G:\csinput.net\DATA\071318\
 Data File : VGD06.D
 Acq On : 13 Jul 2018 1:46 pm
 Operator :
 Sample : CCV,S36974
 Misc : CCV
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 13 14:09:07 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\071318\
 Data File : VGD06.D
 Acq On : 13 Jul 2018 1:46 pm
 Operator :
 Sample : CCV,S36974
 Misc : CCV
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 13 14:09:07 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.464	152	25094	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.098	136	84858	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.414	164	52953	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.377	188	98761	1.0000	ug/mL	0.00
18) Chrysene-d12	16.854	240	80453	1.0000	ug/mL	0.00
23) Perylene-d12	18.594	264	74224	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.721	88	58197	5.4321	ug/mL	92
4) Nitrobenzene-d5	8.154	82	30947	0.8825	ug/mL	80
5) Naphthalene	9.126	128	88795	1.0505	ug/mL	99
6) 2-Methylnaphthalene	10.031	142	66890	1.0253	ug/mL	98
7) 1-Methylnaphthalene	10.166	142	59837	1.0030	ug/mL	95
9) 2-Fluorobiphenyl	10.512	172	82982	1.0493	ug/mL	99
10) Acenaphthylene	11.227	152	92501	1.1237	ug/mL	100
11) Acenaphthene	11.454	154	55656	1.0555	ug/mL	96
12) Fluorene	12.136	166	65286	1.0673	ug/mL	98
14) _Pentachlorophenol	13.117	266	416	1.6526	ug/mL	92
15) Phenanthrene	13.407	178	100723	1.0807	ug/mL	99
16) Anthracene	13.472	178	98031	1.0755	ug/mL	99
17) Fluoranthene	14.981	202	115613	1.0561	ug/mL	98
19) Pyrene	15.282	202	115384	1.0710	ug/mL	99
20) Terphenyl-d14	15.468	244	90892	1.0018	ug/mL	89
21) Benzo(a)anthracene	16.840	228	103519	1.0692	ug/mL	96
22) Chrysene	16.884	228	97212	1.0675	ug/mL	95
24) Benzo(b)fluoranthene	18.157	252	91848	1.0305	ug/mL	98
25) Benzo(k)fluoranthene	18.190	252	103964	1.0835	ug/mL	96
26) Benzo(a)pyrene	18.531	252	83925	1.0383	ug/mL	96
27) Indeno(1,2,3-cd)pyrene	19.870	276	84133	0.9446	ug/mL	# 44
28) Dibenz(a,h)anthracene	19.877	278	65989	0.9172	ug/mL	90
29) Benzo(g,h,i)perylene	20.237	276	67788	0.9497	ug/mL	# 93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ENTHALPY CONTINUING CALIBRATION FOR 301314 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528284313004 File : vgg04 Time : 16-JUL-2018 11:50
 Cal : 528278537001 Caldate : 12-JUL-2018
 Standards: S36976

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	0.9961	1.0122	2.000	2.032	ug/mL	2	30	0.0500	
Acenaphthylene	1.5545	1.7409	2.000	2.240	ug/mL	12	30	0.0500	
Acenaphthene	0.9958	1.0401	2.000	2.089	ug/mL	4	20	0.0500	
Fluorene	1.1552	1.2140	2.000	2.102	ug/mL	5	30	0.0500	
Phenanthrene	0.9437	0.9936	2.000	2.106	ug/mL	5	30	0.0500	
Anthracene	0.9229	0.9726	2.000	2.108	ug/mL	5	30	0.0500	
Fluoranthene	1.1085	1.1597	2.000	2.092	ug/mL	5	20	0.0500	
Pyrene	1.3391	1.4120	2.000	2.109	ug/mL	5	30	0.0500	
Benzo(a)anthracene	1.2034	1.2525	2.000	2.082	ug/mL	4	30	0.0500	
Chrysene	1.1319	1.2036	2.000	2.127	ug/mL	6	30	0.0500	
Benzo(b)fluoranthene	1.2008	1.2363	2.000	2.059	ug/mL	3	30	0.0500	
Benzo(k)fluoranthene	1.2928	1.3643	2.000	2.111	ug/mL	6	30	0.0500	
Benzo(a)pyrene	1.0890	1.1275	2.000	2.071	ug/mL	4	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2000	1.0313	2.000	1.719	ug/mL	-14	30	0.0500	
Dibenz(a,h)anthracene	0.9693	0.8371	2.000	1.727	ug/mL	-14	30	0.0500	
Benzo(g,h,i)perylene	0.9616	0.8068	2.000	1.678	ug/mL	-16	30	0.0500	
Nitrobenzene-d5	0.4133	0.3327	2.000	1.610	ug/mL	-19	30	0.0500	
2-Fluorobiphenyl	1.4934	1.5291	2.000	2.048	ug/mL	2	30	0.0500	
Terphenyl-d14	1.1277	1.1037	2.000	1.957	ug/mL	-2	30	0.0500	

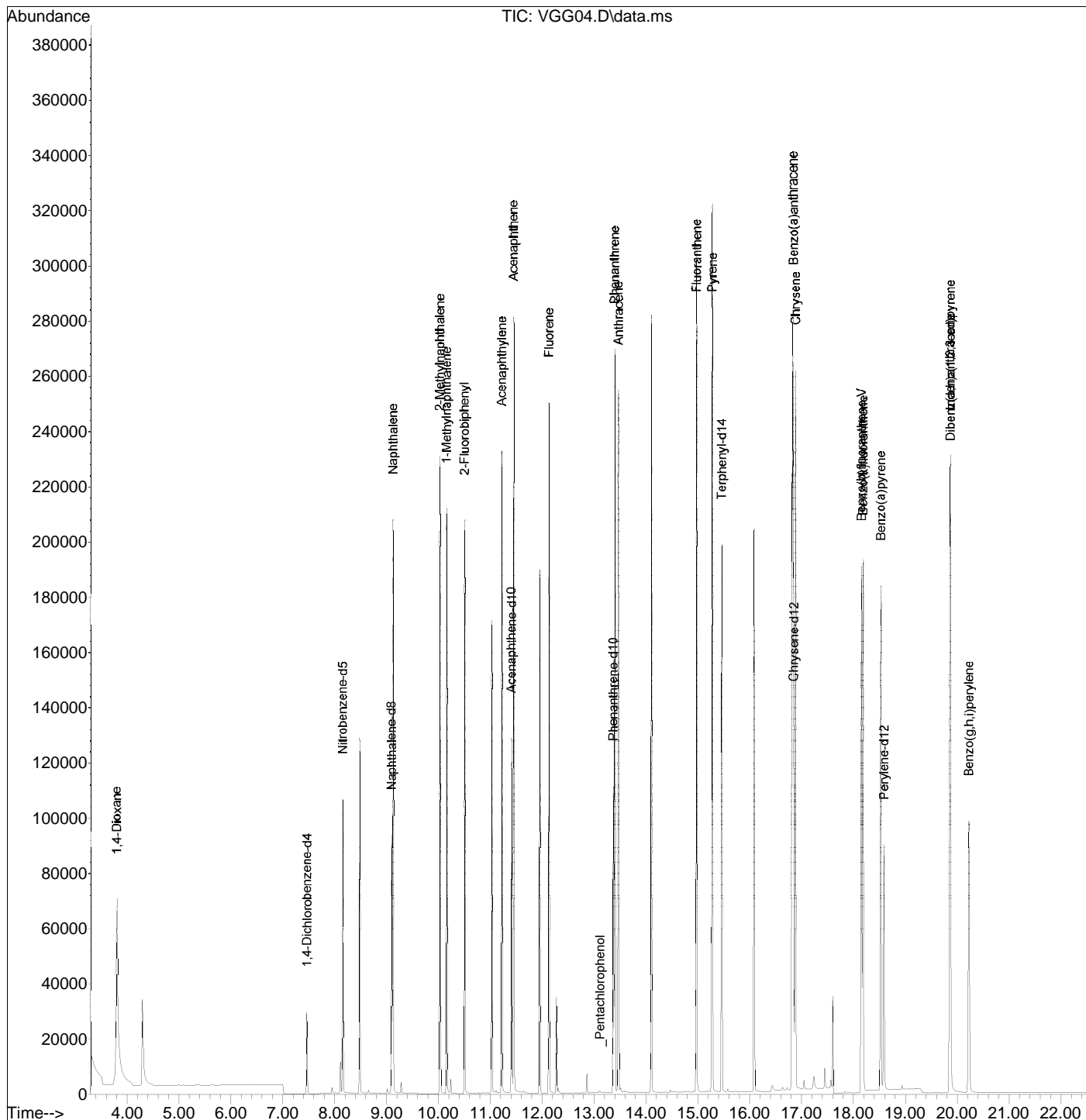
JW1 07/16/18 [1,4-Dioxane]: Corrected automatically drawn baseline.

Analyst: JW1 Date: 07/16/18 Reviewer: LW Date: 07/16/18

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071618\
 Data File : VGG04.D
 Acq On : 16 Jul 2018 11:50 am
 Operator :
 Sample : CCV,S36976
 Misc : CCV
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 16:22:14 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\071618\
 Data File : VGG04.D
 Acq On : 16 Jul 2018 11:50 am
 Operator :
 Sample : CCV,S36976
 Misc : CCV
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 16:22:14 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Fri Jul 13 10:53:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.465	152	22952	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.097	136	77907	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.410	164	48706	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.370	188	93960	1.0000	ug/mL	0.00
18) Chrysene-d12	16.845	240	76876	1.0000	ug/mL	0.00
23) Perylene-d12	18.587	264	67002	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.801	88	101551m	11.3143	ug/mL	
4) Nitrobenzene-d5	8.157	82	51838	1.6100	ug/mL	# 79
5) Naphthalene	9.125	128	157718	2.0324	ug/mL	100
6) 2-Methylnaphthalene	10.030	142	120042	2.0042	ug/mL	92
7) 1-Methylnaphthalene	10.161	142	107772	1.9676	ug/mL	99
9) 2-Fluorobiphenyl	10.507	172	148948	2.0478	ug/mL	96
10) Acenaphthylene	11.222	152	169589	2.2399	ug/mL	100
11) Acenaphthene	11.454	154	101322	2.0891	ug/mL	91
12) Fluorene	12.130	166	118255	2.1017	ug/mL	100
14) _Pentachlorophenol	13.116	266	286	1.1942	ug/mL	95
15) Phenanthrene	13.400	178	186719	2.1058	ug/mL	98
16) Anthracene	13.471	178	182766	2.1076	ug/mL	97
17) Fluoranthene	14.976	202	217934	2.0924	ug/mL	97
19) Pyrene	15.277	202	217103	2.1089	ug/mL	100
20) Terphenyl-d14	15.463	244	169695	1.9573	ug/mL	90
21) Benzo(a)anthracene	16.831	228	192569	2.0816	ug/mL	97
22) Chrysene	16.880	228	185063	2.1267	ug/mL	95
24) Benzo(b)fluoranthene	18.150	252	165675	2.0592	ug/mL	97
25) Benzo(k)fluoranthene	18.183	252	182826	2.1107	ug/mL	96
26) Benzo(a)pyrene	18.524	252	151093	2.0708	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.861	276	138205	1.7190	ug/mL	# 45
28) Dibenz(a,h)anthracene	19.864	278	112172	1.7271	ug/mL	90
29) Benzo(g,h,i)perylene	20.224	276	108115	1.6780	ug/mL	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 301314

ANALYTICAL REPORT

Wet Chemistry

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Avenue
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	301314-001
BR11-1GW03	301314-002
BR11-1GW02	301314-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Mike Dahlquist
Project Manager
mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

Date: 07/17/2018

CA ELAP# 2896, NELAP# 4044-001

**CASE NARRATIVE
WET CHEMISTRY (SM2540C)**

Laboratory number: **301314**
Client: **TRC Solutions**
Project: **285830.02.01**
Location: **Riley Avenue**
Request Date: **07/06/18**
Samples Received: **07/06/18**

This data package contains sample and QC results for three water samples, requested for the above referenced project on 07/06/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Chain of Custody

Enthalpy Analytical LLC
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900 Phone
 (510) 486-0532 Fax

CHAIN OF CUSTODY

Page 1 of 1
 Chain of Custody # : _____

C&T LOGIN # 301314

Project No: 285830.02.01
 Project Name: Riley Avenue KL
 EDD Format: TRC EQUIS Rpt Level: III IV
 Turnaround Time: RUSH Standard
 Sampler: Kevin Li, Nate Berube
 Report To: Alfonso Ang
 Company: TRC Solutions
 Telephone: 415-786-7830
 Email: aang@trcsolutions.com

Analytical Request	
TPH-g, TPH-d (No SGC), TPH-mo. - 8015	X
BTEX - EPA 8021	X
PAHs - EPA 8270-SIM	X
Total Dissolved Solids (TDS) - SM 2540C	X
TPH-9 + BTEX - EPA 8015 + 8021	X

Lab No.	Sample ID.	Sampling		Matrix		Chemical Preservative						
		Date	Time	Water	Soil	# of Containers	HCl	H ₂ SO ₄	HNO ₃	NaOH	None	
	BR11-1GW01	7/6/18	15:06	X		8	X					
	BR11-1GW03	7/6/18	11:40	X		8	X					
	BR11-1GW02	7/6/18	16:35	X		8	X					
	1307062018-01	7/6/18	16:38	X		1						X

Notes: Include Geotracker EDF	RELINQUISHED BY:	RECEIVED BY:
All results to be reported on a dry weight basis. No silica gel cleanup Please email cc the following: jhanzel-durbin@trcsolutions.com, kli@trcsolutions.com mpatinkin@trcsolutions.com, nberube@trcsolutions.com smilican@trcsolutions.com Report Level IV data packages and include chromatographs	[Signature] 7/6/18 16:53 [Signature] 7-6 1843	[Signature] 7-6 1653 [Signature] 7-6-18 1845

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 301314 Client: TRE
 Date Received: 7-6-18 Project: Riley Ave

Section 2: Samples received in a cooler? Yes, how many? 1 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun # A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 7-6-18 By (print) [Signature] (sign) [Signature]
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important: Notify PM if temperature exceeds 6°C or arrive frozen.**
 Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 2.8, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?		<input checked="" type="checkbox"/>	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?			<input checked="" type="checkbox"/>
Did you change the hold time in LIMS for preserved terracores?			<input checked="" type="checkbox"/>
Are bubbles > 6mm absent in VOA samples?		<input checked="" type="checkbox"/>	
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5: YES NO N/A
 Are the samples appropriately preserved? (if N/A, skip the rest of section 5)
 Did you check preservatives for all bottles for each sample?
 Did you document your preservative check?
 pH strip lot# _____, pH strip lot# _____, pH strip lot# _____
 Preservative added:
 H2SO4 lot# _____ added to samples _____ on/at _____
 HCL lot# _____ added to samples _____ on/at _____
 HNO3 lot# _____ added to samples _____ on/at _____
 NaOH lot# _____ added to samples _____ on/at _____

Section 6:
 Explanations/Comments: 4/1 VOAs arrived with bubbles for sample 4

Date Logged in 7-6-18 By (print) TRE (sign) [Signature]
 Date Labeled 7-7-18 By (print) [Signature] (sign) [Signature]

Results & QC Summary

Total Dissolved Solids (TDS)			
Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	METHOD
Project#:	285830.02.01	Analysis:	SM2540C
Analyte:	Total Dissolved Solids	Sampled:	07/06/18
Matrix:	Water	Received:	07/06/18
Units:	mg/L	Prepared:	07/10/18
Diln Fac:	1.000	Analyzed:	07/11/18
Batch#:	261286		

Field ID	Type	Lab ID	Result	RL
BR11-1GW01	SAMPLE	301314-001	680	10
BR11-1GW03	SAMPLE	301314-002	760	10
BR11-1GW02	SAMPLE	301314-003	510	10
	BLANK	QC939007	ND	10

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Dissolved Solids (TDS)			
Lab #:	301314	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	METHOD
Project#:	285830.02.01	Analysis:	SM2540C
Analyte:	Total Dissolved Solids	Batch#:	261286
Field ID:	ZZZZZZZZZZ	Sampled:	07/10/18
MSS Lab ID:	301339-001	Received:	07/10/18
Matrix:	Water	Prepared:	07/10/18
Units:	mg/L	Analyzed:	07/11/18
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
BS	QC939008		90.20	94.00		104	76-122		
BSD	QC939009		90.20	92.00		102	76-122	2	5
SDUP	QC939010	1,128		1,138	10.00			1	5

RL= Reporting Limit

RPD= Relative Percent Difference

Analysis: Total Dissolved Solids Analyst: EHS Filtration Date: 7/10/18 12:15 (B): 7/10/18 18:00 (C):
 Method: SMWW 2540C Batch #: 261286 Analysis Date: 7/11/18 10:35 (C):
 SOP#: tds_rv 14.doc Matrix: Water

Sample	Sample #	.PD	.AD	Vol (mL)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	Report (mg/L)	Reporting Limit (mg/L)	Spike Used (mL)	Spike Vol. Conc (mg/L)	Spike Std (mg/L)	%Rec.	RPD,%
BLANK	QC939007	A	A	50	66.5195	66.5195	0.0000	ND	10					
LCS/BS	QC939008	A	A	50	68.8942	68.9989	0.0047	94.0	10	50	90.2	90.2	104	
BSD	QC939009	A	A	50	70.9371	70.9417	0.0046	92.0	10	50	90	90	102	2
Sample1	301339-001	A	A	50	67.7956	67.8520	0.0564	1,128.0	10					
SDUP 1	QC939010	A	A	50	69.9626	70.0195	0.0569	1,138.0	10					1
Sample11														
SDUP 2														
Sample2	301333-001	A	A	50	68.5396	68.7088	0.1692	3,384.0	10					
Sample3	301314-001	A	A	50	65.7922	65.8262	0.0340	680.0	10					
Sample4	301314-002	A	A	50	65.1196	65.1575	0.0379	758.0	10					
Sample5	301314-003	A	A	50	68.6808	68.7063	0.0255	510.0	10					
Sample6	301349-001	B	A	50	67.7146	67.7603	0.0457	914.0	10					
Sample7														
Sample8														
Sample9														
Sample10														
Sample12														
Sample13														
Sample14														
Sample15														
Sample16														
Sample17														
Sample18														
Sample19														
Sample20														

TDS (mg/L) = (Constant Wt (g) - Initial Wt (g)) * 1,000,000 / Sample Vol (mL)

QC Limits

LCS/BS/ BSD 5 76 - 122
 SDUP 5 66 - 132

TDS by SMWW 2540C
 Total Solids by SMWW 2540B

Enthalpy Analytical LLC - Berkeley
v 7.3, July 2017

LIMS Batch #: 261286
Filtered by: EMS

Prep Date: 07/10/18
Prep Time: 12:15 / 13:00

Benchbook#: **BK 4285**
Page: **10**

EC Meter ID: ECO1
EC Cal Std S#: 32014 exp: 11/30/18
Conc Std (uS/cm): 1000
Vol Used (mL): 50
Final Vol (mL): 50

Filter Mfg/ Lot#: 60008 - 8059
Balance ID: B-1
Balance is calibrated? Yes No

Spike Std LIMS#: 36952
Std Exp Date: 05/31/19
Spike Std Conc (mg/L): > 90.2
Spike Std Vol Added (mL): 50
Pipette ID/lot#: NA

	In	Out	In-2	Out-2	In-3	Out-3
Date:	07/10/18	07/11/18	07/11/18	07/11/18	07/11/18	07/11/19
Time:	12:45 / 16:08	10:35	12:10	13:10	14:50	15:50
Min/Max Range (°C):	95	185	165	185	185	185
Thermometer ID:	W04	W04	W04	W04	W04	W04
Weighed by:		EMS		EMS		EMS

Sample #	Container ID	EC Value (uS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt (g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB	-	50	G7	66.5195	66.5197	66.5195	-
	BS	-		MONF	68.8942	68.8991	68.8989	
	PSD	-		FEEI	70.9371	70.9419	70.9417	
	301 339-001	U	1959	WELL	67.7956	67.8525	67.8520	
5	vsdup	U	1959	COOL	69.9626	70.0200	70.0195	
	301 333-001	H	3510	HOK	68.5398	68.7093	68.7088	
	301 314-001	D	1107	OALY	65.7921	65.8278	65.8264	65.8262
	-002	D	1272	KKSF	65.1196	65.1596	65.1580	65.1575
	-003	D	716	CHEM	68.6808	68.7075	68.7063	68.7063
10	301 349-001	D	1103	SE71	67.7146	67.7624	67.7608	67.7603
15								
20								

* Constant weight must be within 0.0005 from previous reading.
* added on later

EMS 07/10/18
Analyst / Date

Continued on p. 11
Continued from p. 10

PGH 7/11/18
Reviewed by / Date

DATE	ANALYST	0.5000g	100.0000g	SET NO.	LABEL
01 JUN 18	KR	0.5000	99.9998	A306	✓
04 JUN 18	PGH	0.5000	99.9990	A306	✓
05 JUN 18	PGH	0.5000	99.9990	A306	✓
06 JUN 18	PGH	0.5000	99.9997	A306	✓
07 JUN 18	PGH	0.5000	100.0000	A306	✓
08 JUN 18	EM	0.5000	100.0004	A306	✓
09 JUN 18	KR	0.5000	99.9997	A306	✓
11 JUN 18	PGH	0.5000	99.9995	A306	✓
12 JUN 18	PGH	0.5000	100.0000	A306	✓
13 JUN 18	PGH	0.5000	99.9999	A306	✓
14 JUN 18	KR	0.4999	99.9998	A306	✓
15 JUN 18	PGH	0.5000	99.9997	A306	✓
16 JUN 18	PGH	0.5000	99.9994	A306	✓
17 JUN 18	EM	0.5000	99.9998	A306	✓
20 JUN 18	PGH	0.5000	99.9999	A306	✓
21 JUN 18	KR	0.5000	100.0000	A306	✓
22 JUN 18	PGH	0.5000	99.9996	A306	✓
25 JUN 18	KR	0.5000	100.0001	A306	✓
26 JUN 18	KR	0.5000	100.0000	A306	✓
27 JUN 18	PGH	0.5000	100.0001	A306	✓
28 JUN 18	PGH	0.5000	99.9995	A306	✓
29 JUN 18	KR	0.5000	100.0000	A306	✓
02 JUL 18	PGH	0.5000	100.0001	PGH A306	✓
03 JUL 18	PGH	0.5000	100.0000	A306	✓
04 JUL 18	PGH	0.5000	100.0000	A306	✓
06 July 18	MDM	0.5000	100.0000	A306	✓
09 July 18	EM	0.5000	100.0005	A306	✓
10 July 18	PGH	0.5000	99.9996	A306	✓
11 JUL 18	KR	0.5000	99.9999	A306	✓

Continued on Page _____

Read and Understood By _____

Signed _____

Date _____

Signed _____

Date _____



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 301571

ANALYTICAL REPORT

TPH-Extractables by GC

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02.01
Location : Riley Avenue
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	301571-001
BR11-1GW03	301571-002
BR11-1GW02	301571-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Mike Dahlquist
Project Manager
mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

Date: 07/20/2018

CA ELAP# 2896, NELAP# 4044-001

**CASE NARRATIVE
TPH-EXTRACTABLES BY GC (EPA 8015B)**

Laboratory number: **301571**
Client: **TRC Solutions**
Project: **285830.02.01**
Location: **Riley Avenue**
Request Date: **07/18/18**
Samples Received: **07/06/18**

This data package contains sample and QC results for three water samples, requested for the above referenced project on 07/18/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Chain of Custody

RE: 285830.02.01 - Enthalpy (Berkeley) Data (301314) - TPH-d SGC analysis

Ang, Alfonso <AAng@trcsolutions.com>

Tue, Jul 17, 2018 at 4:57 PM

To: "mike.dahlquist@enthalpy.com" <mike.dahlquist@enthalpy.com>

Cc: "Hanzel-Durbin, Justin" <JHanzel-Durbin@trcsolutions.com>, "Li, Kevin" <KLi@trcsolutions.com>, "Patinkin, Michael" <MPatinkin@trcsolutions.com>

Hello Mike,

Do you have enough sample volume left to run TPH-d analysis using SGC? If you do, please run the samples using SGC.

Alfonso Ang, PE

Senior Engineer/Project Manager

T: 415.644.3003 | C: 415.786.7830

aang@trcsolutions.com

From: Mike Dahlquist [mailto:mike.dahlquist@enthalpy.com]**Sent:** Tuesday, July 17, 2018 3:31 PM**To:** Ang, Alfonso <AAng@trcsolutions.com>**Subject:** 285830.02.01 - Enthalpy (Berkeley) Data (301314)

Hi Alfonso,

Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in the EDD.

Please find attached the following files:

- Invoice
- PDF Level IV Deliverable
- EDF EDD (301314_edf.zip)
- EQUiS TRC-SF EDD (301314_equis_efwedd_trcsf.zip)
- Standard format + MDL EDD (301314_standard-mdl.zip)

Email was also sent to: MPatinkin@trcsolutions.com, SMilcan@trcsolutions.com, apinvoiceapproval@trcsolutions.com, jhanzel-durbin@trcsolutions.com

Results & QC Summary

Total Extractable Hydrocarbons			
Lab #:	301571	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	07/06/18
Units:	ug/L	Received:	07/06/18
Diln Fac:	1.000	Prepared:	07/09/18
Batch#:	261242	Analyzed:	07/19/18

Field ID: BR11-1GW01
Type: SAMPLE

Lab ID: 301571-001
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96
Bunker C C12-C40	ND	300	

Surrogate	%REC	Limits
o-Terphenyl	106	58-123

Field ID: BR11-1GW03
Type: SAMPLE

Lab ID: 301571-002
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96
Bunker C C12-C40	ND	300	

Surrogate	%REC	Limits
o-Terphenyl	95	58-123

Field ID: BR11-1GW02
Type: SAMPLE

Lab ID: 301571-003
Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96
Bunker C C12-C40	ND	300	

Surrogate	%REC	Limits
o-Terphenyl	108	58-123

Type: BLANK
Lab ID: QC938836

Cleanup Method: EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96
Bunker C C12-C40	ND	300	

Surrogate	%REC	Limits
o-Terphenyl	104	58-123

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	301571	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	261242
Units:	ug/L	Prepared:	07/09/18
Diln Fac:	1.000	Analyzed:	07/19/18

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC938837

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,440	98	56-120

Surrogate	%REC	Limits
o-Terphenyl	108	58-123

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC938838

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,766	111	56-120	13	28

Surrogate	%REC	Limits
o-Terphenyl	123	58-123

RPD= Relative Percent Difference

ENTHALPY INITIAL CALIBRATION FOR 301571 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228112705001
 Units : mg/L

Name : BUNK_078 5 pt
 Date : 19-MAR-2018 18:08
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	078_015	228112705015	BUNK_50	19-MAR-2018 18:08	S35500
L2	078_016	228112705016	BUNK_250	19-MAR-2018 18:37	S35501
L3	078_017	228112705017	BUNK_500	19-MAR-2018 19:06	S35502
L4	078_018	228112705018	BUNK_1250	19-MAR-2018 19:35	S35503
L5	078_019	228112705019	BUNK_2500	19-MAR-2018 20:04	S35504
L6	078_020	228112705020	BUNK_5000	19-MAR-2018 20:34	S35499

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Bunker C C12-C40	B	16353	20860	21971	17514	21271	21612	AVRG		5.02E-5		19930	12	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Bunker C C12-C40	B	50.000	-18	250.00	5	500.00	10	1250.0	-12	2500.0	7	5000.0	8

WA1 03/20/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 03/20/18

Reviewer: EAH

Date: 03/20/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301571 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

ENTHALPY INITIAL CALIBRATION FOR 301571 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 301571 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228263897001
 Units : mg/L

Name : HEXOTP_183
 Date : 03-JUL-2018 00:37
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	183_033	228263897033	HEX OTP_2.5	03-JUL-2018 00:37	S36499 (2X)
L2	183_034	228263897034	HEX OTP_5	03-JUL-2018 01:06	S36499
L3	183_035	228263897035	HEX OTP_10	03-JUL-2018 01:34	S36500
L4	183_036	228263897036	HEX OTP_25	03-JUL-2018 02:03	S36501
L5	183_037	228263897037	HEX OTP_50	03-JUL-2018 02:31	S36502
L6	183_038	228263897038	HEX OTP_100	03-JUL-2018 03:00	S36503

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	56266	54969	58095	56045	53979	52579	AVRG		1.81E-5		55322	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	2	5.0000	-1	10.000	5	25.000	1	50.000	-2	100.00	-5

WA1 07/03/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/03/18

Reviewer: TKM

Date: 07/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

Carbon Marker Run

Inst : GC14B
 Seqnum : 228276782022
 Standards: S36439

Run Name : C8-C40
 File : 193_022

IDF : 1.0
 Time : 12-JUL-2018 05:30

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	2.327	+/- 4.5s (0.075m)	2.252 - 2.402
C12 - n-Dodecane	B	3.648	+/- 4.5s (0.075m)	3.573 - 3.723
C14 - n-Tetradecane	B	4.813	+/- 4.5s (0.075m)	4.738 - 4.888
C16 - n-Hexadecane	B	5.837	+/- 4.5s (0.075m)	5.762 - 5.912
C18 - n-Octadecane	B	6.752	+/- 4.5s (0.075m)	6.677 - 6.827
C20 - n-Eicosane	B	7.582	+/- 4.5s (0.075m)	7.507 - 7.657
C22 - n-Docosane	B	8.343	+/- 4.5s (0.075m)	8.268 - 8.418
C24 - n-Tetracosane	B	9.043	+/- 4.5s (0.075m)	8.968 - 9.118
C28 - n-Octacosane	B	10.292	+/- 4.5s (0.075m)	10.217 - 10.367
C30 - n-Triacontane	B	10.853	+/- 4.5s (0.075m)	10.778 - 10.928
C32 - n-Dotriacontane	B	11.382	+/- 4.5s (0.075m)	11.307 - 11.457
C34 - n-Tetratriacontane	B	11.878	+/- 4.5s (0.075m)	11.803 - 11.953
C36 - n-HexatriacontaneC36	B	12.367	+/- 4.5s (0.075m)	12.292 - 12.442
C40 - n-Tetracontane	B	13.69	+/- 4.5s (0.075m)	13.615 - 13.765

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	2.252	5.912
Diesel C10-C22	B	2.252	8.418
Diesel C10-C24	B	2.252	9.118
Diesel C10-C28	B	2.252	10.367
Diesel C12-C24	B	3.573	9.118
Diesel C12-C28	B	3.573	10.367
Diesel C16-C24	B	5.762	9.118
Motor Oil C22-C32	B	8.268	11.457
Motor Oil C24-C36	B	8.968	12.442
Motor Oil C28-C40	B	10.217	13.765
Bunker C C10-C40	B	2.252	13.765
Bunker C C12-C40	B	3.573	13.765

EZChrom method retention times successfully validated.

Analyst: CB1

Date: 07/12/18

Reviewer: EAH

Date: 07/12/18

ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228288257003 File : 200_003 Time : 19-JUL-2018 05:13
 Standards: S37195

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	47102	500.0	523.4	mg/L	5	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	55495	50.00	50.16	mg/L	0	15	

CB1 07/19/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18

ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228288257004 File : 200_004 Time : 19-JUL-2018 05:41
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	32623	500.0	549.0	mg/L	10	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	56460	50.00	51.03	mg/L	2	15	

CB1 07/19/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18

ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 228288257005 File : 200_005 Time : 19-JUL-2018 10:12
 Standards: S36287

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	228112705001	19-MAR-2018	19930	21953	500.0	550.7	mg/L	10	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	56812	50.00	51.35	mg/L	3	15	

WA1 07/19/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18

ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228288257013 File : 200_013 Time : 19-JUL-2018 14:18
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	44428	1000	987.3	mg/L	-1	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	57462	50.00	51.93	mg/L	4	15	

WA1 07/19/18 : ccv,s36227,dsl_1000

WA1 07/19/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18

ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228288257014 File : 200_014 Time : 19-JUL-2018 14:47
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	31545	500.0	530.8	mg/L	6	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	54362	50.00	49.13	mg/L	-2	15	

WA1 07/19/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18

ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 228288257015 File : 200_015 Time : 19-JUL-2018 15:15
 Standards: S36287

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	228112705001	19-MAR-2018	19930	21218	500.0	532.3	mg/L	6	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	55582	50.00	50.23	mg/L	0	15	

WA1 07/19/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228112705

Instrument : GC14B
 Method : EPA 8015B

Begun : 03/19/18 06:25
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	078_001	IB				03/19/18 06:25	1.0	
002	078_002	IB				03/19/18 06:53	1.0	
003	078_003	X	CMARKER			03/19/18 07:21	1.0	1
004	078_004	CCV	DSL_500			03/19/18 07:50	1.0	2
005	078_005	CCV	MO_500			03/19/18 08:18	1.0	3
006	078_006	CCV	BUNK_500			03/19/18 08:47	1.0	4
007	078_007	IB				03/19/18 13:42	1.0	
008	078_008	X	CMARKER			03/19/18 14:11	1.0	1
009	078_009	XCCV	DSL_500			03/19/18 14:40	1.0	2
010	078_010	XCCV	MO_500			03/19/18 15:09	1.0	3
011	078_011	CCV	DSL_500			03/19/18 16:08	1.0	2
012	078_012	CCV	MO_500			03/19/18 16:37	1.0	3
013	078_013	IB				03/19/18 17:10	1.0	
014	078_014	IB	CALIB			03/19/18 17:39	1.0	
015	078_015	ICAL	BUNK_50			03/19/18 18:08	1.0	5
016	078_016	ICAL	BUNK_250			03/19/18 18:37	1.0	6
017	078_017	ICAL	BUNK_500			03/19/18 19:06	1.0	7
018	078_018	ICAL	BUNK_1250			03/19/18 19:35	1.0	8
019	078_019	ICAL	BUNK_2500			03/19/18 20:04	1.0	9
020	078_020	ICAL	BUNK_5000			03/19/18 20:34	1.0	10
021	078_021	IB	CALIB			03/19/18 21:03	1.0	
022	078_022	CMARKER	C8-C50			03/19/18 21:32	1.0	1
023	078_023	IB	CALIB			03/19/18 22:01	1.0	

CB1 03/19/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 7.

WA1 03/19/18 : X out CCV at position 9 and 10 due to lose glass connector.

WA1 03/20/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 8 through 23.

Standards used: 1=S35483 2=S35710 3=S36000 4=S34383 5=S35500 6=S35501 7=S35502 8=S35503 9=S35504 10=S35499

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	113_001	IB					04/23/18 06:10	1.0	
002	113_002	IB					04/23/18 06:38	1.0	
003	113_003	X	CMARKER				04/23/18 07:06	1.0	1
004	113_004	CCV	DSL_500				04/23/18 07:34	1.0	2
005	113_005	CCV	MO_500				04/23/18 08:35	1.0	3
006	113_006	CCV	DSL_500				04/23/18 09:02	1.0	2
007	113_007	IB					04/23/18 12:40	1.0	
008	113_008	X	CMARKER				04/23/18 13:07	1.0	1
009	113_009	CCV	DSL_500				04/23/18 13:35	1.0	2
010	113_010	CCV	MO_500				04/23/18 14:03	1.0	3
012	113_012	IB					04/23/18 15:27	1.0	
013	113_013	SAMPLE	299115-001		Soil	258772	04/23/18 16:57	1.0	
014	113_014	SAMPLE	299115-002		Soil	258772	04/23/18 17:25	1.0	
015	113_015	SAMPLE	299115-003		Soil	258772	04/23/18 17:53	1.0	
016	113_016	SAMPLE	299115-004		Soil	258772	04/23/18 18:20	1.0	
017	113_017	SAMPLE	299056-001		Soil	258772	04/23/18 18:48	2.0	
018	113_018	IB					04/23/18 19:16	1.0	
019	113_019	SAMPLE	299117-001		Soil	258772	04/23/18 19:44	1.0	
020	113_020	SAMPLE	299117-002		Soil	258772	04/23/18 20:11	1.0	
021	113_021	MS	QC929007	S	Soil	258726	04/23/18 20:39	1.0	
022	113_022	MSD	QC929008	S	Soil	258726	04/23/18 21:07	1.0	
023	113_023	IB					04/23/18 21:35	1.0	
024	113_024	CCV	DSL_250				04/23/18 22:03	1.0	4
025	113_025	CCV	MO_500				04/23/18 22:31	1.0	3
026	113_026	X	CMARKER				04/23/18 22:59	1.0	1
027	113_027	BLANK	QC929171		Soil	258772	04/23/18 23:27	1.0	
028	113_028	LCS	QC929172		Soil	258772	04/23/18 23:55	1.0	
029	113_029	MSS	299056-002		Soil	258772	04/24/18 00:23	1.0	
030	113_030	MS	QC929173		Soil	258772	04/24/18 00:51	1.0	
031	113_031	MSD	QC929174		Soil	258772	04/24/18 01:19	1.0	
032	113_032	SAMPLE	299118-001		Soil	258772	04/24/18 01:47	1.0	
033	113_033	SAMPLE	299119-001		Soil	258772	04/24/18 02:14	1.0	
034	113_034	IB					04/24/18 02:42	1.0	
035	113_035	SAMPLE	299126-001		Soil	258772	04/24/18 03:10	1.0	
036	113_036	SAMPLE	299126-002		Soil	258772	04/24/18 03:38	1.0	
037	113_037	SAMPLE	299116-001		Soil	258772	04/24/18 04:06	1.0	
038	113_038	SAMPLE	299116-002		Soil	258772	04/24/18 04:34	1.0	
039	113_039	IB					04/24/18 05:02	1.0	
040	113_040	CCV	DSL_500				04/24/18 05:30	1.0	2
041	113_041	CCV	MO_500				04/24/18 05:58	1.0	3
042	113_042	X	CMARKER				04/24/18 06:26	1.0	1
043	113_043	SAMPLE	299056-005		Soil	258786	04/24/18 07:10	1.0	
044	113_044	SAMPLE	299056-006		Soil	258786	04/24/18 07:38	1.0	
045	113_045	SAMPLE	299055-001		Soil	258786	04/24/18 08:10	1.0	
046	113_046	SAMPLE	299055-002		Soil	258786	04/24/18 08:38	1.0	
047	113_047	SAMPLE	299055-004		Soil	258786	04/24/18 09:06	1.0	
048	113_048	SAMPLE	299055-005		Soil	258786	04/24/18 09:34	1.0	
049	113_049	SAMPLE	299055-006		Soil	258786	04/24/18 10:02	1.0	
050	113_050	SAMPLE	299055-007		Soil	258786	04/24/18 10:30	1.0	
051	113_051	CCV	DSL_1000				04/24/18 10:58	1.0	5
052	113_052	CCV	MO_500				04/24/18 11:26	1.0	3
053	113_053	X	CMARKER				04/24/18 11:54	1.0	1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B Begun : 04/23/18 06:10
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	113_054	CCV	DSL_1000				04/24/18 12:22	1.0	5
055	113_055	CCV	DSL_1000				04/24/18 12:50	1.0	5
056	113_056	IB					04/24/18 16:52	1.0	
057	113_057	IB	CALIB				04/24/18 17:20	1.0	
058	113_058	ICAL	HEX OTP_5				04/24/18 17:47	1.0	6
059	113_059	ICAL	HEX OTP_10				04/24/18 18:15	1.0	7
060	113_060	ICAL	HEX OTP_25				04/24/18 18:43	1.0	8
061	113_061	ICAL	HEX OTP_50				04/24/18 19:10	1.0	9
062	113_062	ICAL	HEX OTP_100				04/24/18 19:38	1.0	10
063	113_063	ICAL	HEX OTP_200				04/24/18 20:06	1.0	11
064	113_064	IB	CALIB				04/24/18 20:33	1.0	
065	113_065	ICAL	DSL_10				04/24/18 21:01	1.0	12
066	113_066	ICAL	DSL_100				04/24/18 21:29	1.0	13
067	113_067	ICAL	DSL_500				04/24/18 21:57	1.0	14
068	113_068	ICAL	DSL_1000				04/24/18 22:25	1.0	15
069	113_069	ICAL	DSL_5000				04/24/18 22:53	1.0	16
070	113_070	IB	CALIB				04/24/18 23:21	1.0	
071	113_071	ICV	DSL_500				04/24/18 23:49	1.0	17
072	113_072	IB	CALIB				04/25/18 00:17	1.0	
073	113_073	ICAL	MO_50				04/25/18 00:45	1.0	18
074	113_074	ICAL	MO_250				04/25/18 01:13	1.0	19
075	113_075	ICAL	MO_500				04/25/18 01:41	1.0	20
076	113_076	ICAL	MO_1000				04/25/18 02:09	1.0	21
077	113_077	ICAL	MO_2500				04/25/18 02:37	1.0	22
078	113_078	ICAL	MO_5000				04/25/18 03:05	1.0	22
079	113_079	IB	CALIB				04/25/18 03:33	1.0	
080	113_080	CMARKER	C8-C50				04/25/18 04:01	1.0	23
081	113_081	IB	CALIB				04/25/18 04:29	1.0	

CB1 04/25/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 81.

CB1 04/23/18 : Hardware failure (bent syringe) for run at position 4, RR DSL opening CCV.

WA1 04/23/18 : Position 11 was mis-injected.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S35149 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S36610 13=S36611 14=S36613 15=S36615 16=S36609 17=S35164 18=S34924 19=S34925 20=S34926 21=S34927 22=S34923
 23=S35483

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228223554

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/04/18 05:54
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	155_001	IB				06/04/18 05:54	1.0	
002	155_002	CCV	DSL_500			06/04/18 06:22	1.0	1
003	155_003	CCV	MO_500			06/04/18 06:51	1.0	2
004	155_004	X	CMARKER			06/04/18 07:19	1.0	3
005	155_005	CCV	JET_250			06/04/18 08:37	1.0	4
006	155_006	BLANK	QC934363	Water	260120	06/04/18 11:26	1.0	
007	155_007	BS	QC934364	Water	260120	06/04/18 11:54	1.0	
008	155_008	BSD	QC934365	Water	260120	06/04/18 12:23	1.0	
009	155_009	SAMPLE	300258-001	Water	260120	06/04/18 12:51	1.0	
010	155_010	CCV	DSL_1000			06/04/18 13:19	1.0	5
011	155_011	CCV	MO_500			06/04/18 14:54	1.0	2
012	155_012	CCV	JET_250			06/04/18 15:23	1.0	4
013	155_013	X	CMARKER			06/04/18 15:51	1.0	3
014	155_014	IB				06/04/18 16:20	1.0	
015	155_015	IB	CALIB			06/04/18 16:48	1.0	
016	155_016	ICAL	MO_50			06/04/18 17:17	1.0	6
017	155_017	ICAL	MO_250			06/04/18 17:45	1.0	7
018	155_018	ICAL	MO_500			06/04/18 18:14	1.0	8
019	155_019	ICAL	MO_1000			06/04/18 18:43	1.0	9
020	155_020	ICAL	MO_2500			06/04/18 19:11	1.0	10
021	155_021	ICAL	MO_5000			06/04/18 19:39	1.0	10
022	155_022	IB	CALIB			06/04/18 20:08	1.0	
023	155_023	CMARKER	C8-C40			06/04/18 20:36	1.0	3
024	155_024	IB	CALIB			06/04/18 21:04	1.0	

CB1 06/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Standards used: 1=S36757 2=S36833 3=S36439 4=S35436 5=S36227 6=S36946 7=S36948 8=S36949 9=S36951 10=S36926

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	183_001	IB					07/02/18 06:17	1.0	
002	183_002	IB					07/02/18 06:46	1.0	
003	183_003	X	CMARKER				07/02/18 07:14	1.0	1
004	183_004	CCV	DSL_500				07/02/18 07:43	1.0	2
005	183_005	CCV	MO_500				07/02/18 08:11	1.0	3
006	183_006	BLANK	QC937860		Water	260995	07/02/18 10:57	1.0	
007	183_007	LCS	QC937861		Water	260995	07/02/18 11:26	1.0	
008	183_008	MSS	301108-001		Water	260995	07/02/18 11:54	1.0	
009	183_009	MS	QC937862		Water	260995	07/02/18 12:23	1.0	
010	183_010	MSD	QC937863		Water	260995	07/02/18 12:51	1.0	
011	183_011	SAMPLE	301135-001		Water	260995	07/02/18 13:20	1.0	
012	183_012	CCV	DSL_1000				07/02/18 13:54	1.0	4
013	183_013	CCV	MO_500				07/02/18 14:22	1.0	3
014	183_014	X	CMARKER				07/02/18 14:51	1.0	1
015	183_015	SAMPLE	301076-001		Soil	261040	07/02/18 16:07	1.0	
016	183_016	SAMPLE	301076-002		Soil	261040	07/02/18 16:36	1.0	
017	183_017	SAMPLE	301076-003		Soil	261040	07/02/18 17:04	1.0	
018	183_018	SAMPLE	301076-004		Soil	261040	07/02/18 17:32	1.0	
019	183_019	SAMPLE	301076-005		Soil	261040	07/02/18 18:00	1.0	
020	183_020	SAMPLE	301106-002		Soil	261040	07/02/18 18:29	2.0	
021	183_021	IB					07/02/18 18:57	1.0	
022	183_022	BLANK	QC938133		Soil	261063	07/02/18 19:25	1.0	
023	183_023	LCS	QC938134		Soil	261063	07/02/18 19:53	1.0	
024	183_024	MSS	301193-001		Soil	261063	07/02/18 20:21	3.0	
025	183_025	MS	QC938135		Soil	261063	07/02/18 20:49	3.0	
026	183_026	MSD	QC938136		Soil	261063	07/02/18 21:18	3.0	
027	183_027	IB					07/02/18 21:46	1.0	
028	183_028	SAMPLE	301106-001		Soil	261040	07/02/18 22:15	1.0	
029	183_029	CCV	DSL_500				07/02/18 22:43	1.0	2
030	183_030	CCV	MO_500				07/02/18 23:12	1.0	3
031	183_031	X	CMARKER				07/02/18 23:41	1.0	1
032	183_032	IB	CALIB				07/03/18 00:09	1.0	
033	183_033	ICAL	HEX OTP_2.5				07/03/18 00:37	1.0	5
034	183_034	ICAL	HEX OTP_5				07/03/18 01:06	1.0	5
035	183_035	ICAL	HEX OTP_10				07/03/18 01:34	1.0	6
036	183_036	ICAL	HEX OTP_25				07/03/18 02:03	1.0	7
037	183_037	ICAL	HEX OTP_50				07/03/18 02:31	1.0	8
038	183_038	ICAL	HEX OTP_100				07/03/18 03:00	1.0	9
039	183_039	IB	CALIB				07/03/18 03:28	1.0	
040	183_040	CMARKER	C8-C40				07/03/18 03:57	1.0	1
041	183_041	IB	CALIB				07/03/18 04:25	1.0	
042	183_042	IB					07/03/18 07:02	1.0	
043	183_043	X	CMARKER				07/03/18 07:30	1.0	1
044	183_044	CCV	DSL_500				07/03/18 07:59	1.0	2
045	183_045	CCV	MO_500				07/03/18 08:27	1.0	3
046	183_046	BLANK	QC938045		Soil	261040	07/03/18 11:14	1.0	
047	183_047	LCS	QC938046		Soil	261040	07/03/18 11:42	1.0	
048	183_048	LCS	QC938165		Soil	261072	07/03/18 12:10	1.0	
049	183_049	BLANK	QC938164		Soil	261072	07/03/18 12:38	1.0	
050	183_050	SAMPLE	301076-015		Soil	261063	07/03/18 13:07	1.0	
051	183_051	SAMPLE	301076-016		Soil	261063	07/03/18 13:35	1.0	
052	183_052	SAMPLE	301076-017		Soil	261063	07/03/18 14:03	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	183_053	SAMPLE	301076-014		Soil	261063	07/03/18 14:32	1.0		
054	183_054	SAMPLE	301070-001		Soil	261040	07/03/18 15:00	3.0		
055	183_055	SAMPLE	301124-001		Soil	261072	07/03/18 15:29	10.0		
056	183_056	IB					07/03/18 15:57	1.0		
057	183_057	MSS	301170-003		Soil	261072	07/03/18 16:25	1.0		
058	183_058	MS	QC938166		Soil	261072	07/03/18 16:54	1.0		
059	183_059	MSD	QC938167		Soil	261072	07/03/18 17:22	1.0		
060	183_060	CCV	DSL_250				07/03/18 18:15	1.0	10	
061	183_061	XCCV	MO_500				07/03/18 18:44	1.0	3	
062	183_062	X	CMARKER				07/03/18 19:12	1.0	1	
063	183_063	CCV	BUNK_500				07/03/18 19:40	1.0	11	
064	183_064	CCV	MO_500				07/03/18 20:09	1.0	3	
065	183_065	CCV	MO_500				07/03/18 20:37	1.0	3	
066	183_066	BLANK	QC938088		Water	261052	07/03/18 21:05	1.0		
067	183_067	BLANK	QC938045	S	Soil	261040	07/03/18 21:34	1.0		
068	183_068	LCS	QC938046	S	Soil	261040	07/03/18 22:02	1.0		
069	183_069	SAMPLE	301143-001	S	Soil	261040	07/03/18 22:31	1.0		
070	183_070	IB					07/03/18 22:59	1.0		
071	183_071	SAMPLE	301076-025		Water	261052	07/03/18 23:28	1.0		
072	183_072	SAMPLE	301189-001		Water	261052	07/03/18 23:57	1.0		
073	183_073	SAMPLE	301189-002		Water	261052	07/04/18 00:26	1.0		
074	183_074	SAMPLE	301189-003		Water	261052	07/04/18 00:54	1.0		
075	183_075	SAMPLE	301170-001		Soil	261072	07/04/18 01:23	1.0		
076	183_076	SAMPLE	301170-002		Soil	261072	07/04/18 01:52	1.0		
077	183_077	SAMPLE	301213-001		Soil	261040	07/04/18 02:20	1.0		
078	183_078	SAMPLE	301111-001		Water	261052	07/04/18 02:49	2.0		
079	183_079	CCV	DSL_500				07/04/18 03:18	1.0	2	
080	183_080	CCV	MO_500				07/04/18 03:46	1.0	3	
081	183_081	CCV	BUNK_500				07/04/18 04:15	1.0	11	
082	183_082	X	CMARKER				07/04/18 04:44	1.0	1	
083	183_083	SAMPLE	301104-001		Soil	261072	07/04/18 05:12	1.0		
084	183_084	SAMPLE	301104-002		Soil	261072	07/04/18 05:41	1.0		
085	183_085	SAMPLE	301104-003		Soil	261072	07/04/18 06:10	1.0		
086	183_086	SAMPLE	301104-004		Soil	261072	07/04/18 06:38	1.0		
087	183_087	SAMPLE	301176-001		Soil	261040	07/04/18 07:07	10.0		
088	183_088	IB					07/04/18 07:35	1.0		
089	183_089	SAMPLE	301076-006		Soil	261063	07/04/18 08:04	1.0		
090	183_090	SAMPLE	301076-007		Soil	261063	07/04/18 08:32	1.0		
091	183_091	SAMPLE	301076-008		Soil	261063	07/04/18 09:01	1.0		
092	183_092	SAMPLE	301076-009		Soil	261063	07/04/18 09:29	1.0		
093	183_093	SAMPLE	301076-010		Soil	261063	07/04/18 09:58	1.0		
094	183_094	SAMPLE	301076-011		Soil	261063	07/04/18 10:26	1.0		
095	183_095	SAMPLE	301076-012		Soil	261063	07/04/18 10:55	1.0		
096	183_096	SAMPLE	301076-013		Soil	261063	07/04/18 11:24	1.0		
097	183_097	CCV	DSL_1000				07/04/18 11:52	1.0	4	
098	183_098	CCV	MO_500				07/04/18 12:21	1.0	3	
099	183_099	X	CMARKER				07/04/18 12:49	1.0	1	
100	183_100	BLANK	QC938316		Soil	261112	07/04/18 13:17	1.0		
101	183_101	LCS	QC938317		Soil	261112	07/04/18 13:45	1.0		
102	183_102	MSS	301147-003		Soil	261112	07/04/18 14:13	3.0		11:BUNKC:12-40=27000
103	183_103	MS	QC938318		Soil	261112	07/04/18 14:42	3.0		8:BUNKC:12-40=19000
104	183_104	MSD	QC938319		Soil	261112	07/04/18 15:10	3.0		11:BUNKC:12-40=22000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B Begun : 07/02/18 06:17
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	183_105	SAMPLE	301147-004		Soil	261112	07/04/18 15:38	3.0		11:BUNKC:12-40=20000
106	183_106	IB					07/04/18 16:06	1.0		
107	183_107	SAMPLE	301147-005		Soil	261112	07/04/18 16:34	1.0		
108	183_108	SAMPLE	301147-006		Soil	261112	07/04/18 17:02	1.0		
109	183_109	SAMPLE	301147-007		Soil	261112	07/04/18 17:30	1.0		
110	183_110	SAMPLE	301148-001		Soil	261112	07/04/18 17:59	1.0		
111	183_111	MSS	301148-002		Soil	261112	07/04/18 18:27	1.0		
112	183_112	SAMPLE	301148-003		Soil	261112	07/04/18 18:55	1.0		
113	183_113	CCV	DSL_500				07/04/18 19:23	1.0	2	
114	183_114	CCV	MO_500				07/04/18 19:51	1.0	3	
115	183_115	X	CMARKER				07/04/18 20:19	1.0	1	
116	183_116	SAMPLE	301076-018		Soil	261063	07/04/18 20:48	1.0		
117	183_117	SAMPLE	301076-019		Soil	261063	07/04/18 21:16	1.0		
118	183_118	SAMPLE	301076-020		Soil	261063	07/04/18 21:45	1.0		
119	183_119	SAMPLE	301076-021		Soil	261063	07/04/18 22:13	1.0		
120	183_120	SAMPLE	301176-015		Soil	261040	07/04/18 22:42	10.0		2:BUNKC:12-40=5500
121	183_121	IB					07/04/18 23:10	1.0		
122	183_122	SAMPLE	301076-022		Soil	261063	07/04/18 23:38	1.0		
123	183_123	SAMPLE	301076-023		Soil	261063	07/05/18 00:07	1.0		
124	183_124	SAMPLE	301176-006		Soil	261040	07/05/18 00:35	100.0		
125	183_125	IB					07/05/18 01:04	1.0		
126	183_126	IB					07/05/18 01:32	1.0		
127	183_127	SAMPLE	301176-014		Soil	261040	07/05/18 02:00	10.0		2:BUNKC:12-40=6200
128	183_128	IB					07/05/18 02:29	1.0		
129	183_129	SAMPLE	301229-001		Soil	261112	07/05/18 02:57	1.0		
130	183_130	CCV	DSL_1000				07/05/18 03:26	1.0	4	
131	183_131	CCV	MO_500				07/05/18 03:54	1.0	3	
132	183_132	X	CMARKER				07/05/18 04:23	1.0	1	

CB1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 5.

WA1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 6 through 14.

WA1 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 15 through 62.

CB1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 63 through 132.

Standards used: 1=S36439 2=S37195 3=S37407 4=S36227 5=S36499 6=S36500 7=S36501 8=S36502 9=S36503 10=S36285 11=S36287

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228288257

Instrument : GC14B Begun : 07/19/18 04:17
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	200_001	IB					07/19/18 04:17	1.0	
002	200_002	X	CMARKER				07/19/18 04:45	1.0	1
003	200_003	CCV	DSL_500				07/19/18 05:13	1.0	2
004	200_004	CCV	MO_500				07/19/18 05:41	1.0	3
005	200_005	CCV	BUNK_500				07/19/18 10:12	1.0	4
006	200_006	BLANK	QC938836	S	Water	261242	07/19/18 10:40	1.0	
007	200_007	BS	QC938837	S	Water	261242	07/19/18 11:28	1.0	
008	200_008	BSD	QC938838	S	Water	261242	07/19/18 11:57	1.0	
009	200_009	SAMPLE	301571-001	S	Water	261242	07/19/18 12:25	1.0	
010	200_010	SAMPLE	301571-002	S	Water	261242	07/19/18 12:53	1.0	
011	200_011	SAMPLE	301571-003	S	Water	261242	07/19/18 13:22	1.0	
012	200_012	SAMPLE	301557-002		Water	261490	07/19/18 13:50	1.0	
013	200_013	CCV	DSL_1000				07/19/18 14:18	1.0	5
014	200_014	CCV	MO_500				07/19/18 14:47	1.0	3
015	200_015	CCV	BUNK_500				07/19/18 15:15	1.0	4
016	200_016	X	CMARKER				07/19/18 15:43	1.0	1

CB1 07/19/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 16.

SAMPLE PREPARATION SUMMARY

Batch # : 261242	Analysis : TEH
Started By : RD1	Prep Date : 09-JUL-2018 12:34
Method : 3520C	Finished By : CRC
Spike #1 ID : S37162	SOP Version : TEH_3520_rv16
	Units : mL
	Spike #2 ID : S36488
	Spike #3 ID : S36756

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
203815-035		Water	1000	5	1	0.005	7	1		.12		(rebatched)	See comment 1 below
212266-044		Water	1000	5	1	0.005	7	1				TEHM	See comment 2 below
213035-045		Water	1000	5	1	0.005	7	1	.016			(rebatched)	See comment 1 below
301212-001		Water	1000	5	1	0.005	7	1				TEH	See comment 3 below
301212-002		Water	1000	5	1	0.005	7	1				TEHM	See comment 4 below
301212-003		Water	1000	5	1	0.005	7	1		.2		TEH	See comment 5 below
301254-010		Water	1020	5	1	0.004902	7	1				TEHM	
301254-013		Water	510	2.5	1	0.004902	7	.5				TEHM	
301254-014		Water	500	2.5	1	0.005	7	.5				TEHM	
301314-001		Water	500	2.5	1	0.005	7	.5				TEHM	
301314-002		Water	500	2.5	1	0.005	7	.5				TEHM	
301314-003		Water	500	2.5	1	0.005	7	.5				TEHM	
301333-001		Water	1020	5	1	0.004902	7	1				TEHM	See comment 6 below
301571-001		Water	500	2.5	1	0.005		.5			3630C	TEHM	See comment 7 below
301571-002		Water	500	2.5	1	0.005		.5			3630C	TEHM	See comment 8 below
301571-003		Water	500	2.5	1	0.005		.5			3630C	TEHM	See comment 9 below
QC938836	BLANK	Water	500	2.5	1	0.005		.5			3630C	TEHM	
QC938837	BS	Water	500	2.5	1	0.005		.5	.5		3630C	TEHM	
QC938838	BSD	Water	500	2.5	1	0.005		.5	.5		3630C	TEHM	

Comment 1: Prepped 10-JUL-2018 14:14; A/O AS1, MDL
 Comment 2: Prepped 10-JUL-2018 14:14; +.04 mL S36926A; A/O AS1, MDL
 Comment 3: Prepped 10-JUL-2018 14:14; +.1 mL S36613A; A/O AS1, LOQ
 Comment 4: Prepped 10-JUL-2018 14:14; +.06 mL S36926A; A/O AS1, LOQ
 Comment 5: Prepped 10-JUL-2018 14:14; A/O AS1, LOQ
 Comment 6: Prepped 10-JUL-2018 12:31; A/O AS1
 Comment 7: A/O CRC only for SG; alias of 301314-001
 Comment 8: A/O CRC only for SG; alias of 301314-002
 Comment 9: A/O CRC only for SG; alias of 301314-003

WA1 07/10/18 : Matrix spikes were not performed for this analysis in batch 261242 due to insufficient sample amount.

WA1 07/10/18 : Please review QCs for rush job 301254 that due on 7/11.

EAH 07/10/18 : Reviewed for 301254.

CB1 07/12/18 : Please review batch paperwork and QCs for RUSH job 301333 due TODAY, 7/12/18.

EAH 07/12/18 : Reviewed for 301333.

CB1 07/12/18 : Please review batch paperwork and QCs for STD TAT job 301314 due today, 7/12/18.

EAH 07/12/18 : Reviewed for 301314.

WA1 07/19/18 : Please re-review the batch with SG QCs and job 301571 (please see job sheet comments).

Analyst: WA1 Date: 07/13/18 Reviewer: EAH Date: 07/13/18


Prep Chemist: CPL
 Cleanup Date: 7/19/18

Benchbook # **BK 4267**
 Page 50

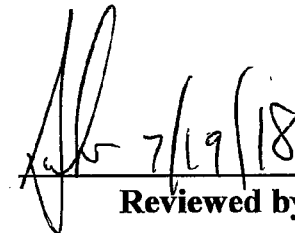
Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
301571-001	261242	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	cleaned 301314-001; SG part hold diff perm. MTD
2		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
3		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
MB RC938836		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
5 BS 7		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
BSD 8		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
10		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
15		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
20		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
25		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
30		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	ARC 7/19/18

Extracts were cleaned up using C&T assembled 1.0 g columns
 Extracts were cleaned up using - g cartridges
 Extracts were eluted with 4.0 mL CH₂Cl₂
 Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
Y6450240	CPL 7/19/18
EM 58068	

 07/19/18
Extraction Chemist / Date

Continued from page -
 Continued on page -

 7/19/18
Reviewed by / Date

262
d):
iel

LIMS Batch No: 261242
LIMS Analysis: TEHM
Date Extracted: 7/9/2018

Extraction Method:
 EPA 3520c cont. L/L

Page 31 BK 4262
Cleanup Method (if needed):
 EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
301254-016	H	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1020	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		*
L 13	I	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 510	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>		
L 14 RO1	JK	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>		
301254-001	E	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	301314-001
AR6 1314	2	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	L 2
7/10/18	3	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	L 3
MD OC 938836	N/A	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
BS	7	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> L	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
BSD	L 8	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> L	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
10						
15						
20						
25						
30						
35						
40						
45						
50						
55						
60						
65						
70						
75						
80						
85						
90						
95						
100						

AR6 7/11/18
AR6 7/10/18

RD 17/9/18

BS/BSO only (MS/MSD not included) due to: insufficient volume, or other (reason)

* 1.0/05
0.5

Checked pH with pH strips - lot #
mL of TEH_SURR was added to all samples
mL of TEH_SP was added to all spikes
 3520c: Samples were continually extracted about 450 mL of CH₂Cl₂
Extraction Start Time:
Extraction End Time:
 3510c: Samples were extracted 3 times with 60 mL of CH₂Cl₂
Extracts filtered through baked, CH₂Cl₂-rinsed granular Na₂SO₄
Concentrated to final volume in boiling water bath
Relinquished to TEH Department

Mfg & Lot# / LIMS# / Tin	Date/Initials
100DH5261	RD 7/9/18
S 37162B/536677B	
S 364880D	
SM58068	
1234/1231/1414	
07:00 6:31 8:14	CRL for JCT 7/10/18
EM58068	CRL 7/10/18
EM16I285202	
<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	

[Signature] 7/9/18

Extraction Chemist Date

Continued from Page -
Continued on Page 32/36

[Signature] 7/11/18
[Signature] 7/10/18
Reviewed by Date

TEH (8015) Water Prep Log

version 201801

Enthlapy Analytical LLC - Berkeley

LIMS Batch No: 261242
 LIMS Analysis: TEHM
 Date Extracted: 7/10/18

Extraction Method:
 EPA 3520c cont. L/L

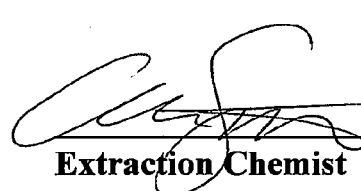
Page 32 BK 4262
 Cleanup Method (if needed):
 EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
301333-001	0	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1020	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		A10 ASI 7/10/18 12:31
203815-035	N/A	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		MDL; S36756A G.0.12mL
212266-044	1	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		1; S36926A G.0.04mL
213035-045	1	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		1; S36488E G.0.06mL
5 301212-001	1	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		100; S36613A G.0.1mL
	2	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		1; S36926A G.0.06mL
	3	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		1; S36756A G.0.2mL
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		A10 ASI 7/10/18 1414
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
10		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
15		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
20		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		

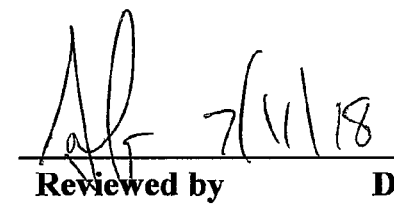
BS/BSD only (MS/MSD not included) due to: insufficient volume, or other (reason) _____

Mfg & Lot# / LIMS # / Tin	Date / Initial
See PG 30	ASI 7/10/18
S36697B	7/10/18
SEEP 6 301	7/10/18
1231/1414 OR PER TRM	7/10/18
6:31/8:14	JCT 7/10/18
EM58068	
EM161285202	

Checked pH with pH strips - lot #
1.0 mL of TEH_SURR was added to all samples
 _____ mL of TEH_SP was added to all spikes
 3520c: Samples were continually extracted about 450 mL of CH₂Cl₂
 Extraction Start Time: _____
 Extraction End Time: _____
 3510c: Samples were extracted 3 times with 60 mL of CH₂Cl₂
 Extracts filtered through baked, CH₂Cl₂-rinsed granular Na₂SO₄
 Concentrated to final volume in boiling water bath
 Relinquished to TEH Department


 Extraction Chemist _____ Date 7/10/18

Continued from Page 31
 Continued on Page -36


 Reviewed by _____ Date 7/11/18

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 301571-001 (S) Client ID : BR11-1GW01
 Seqnum : 228288257009 Matrix : Water Acct : TRC-SF (MJD)
 File : 200_009 Batch : 261242 Time : 19-JUL-2018 12:25
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

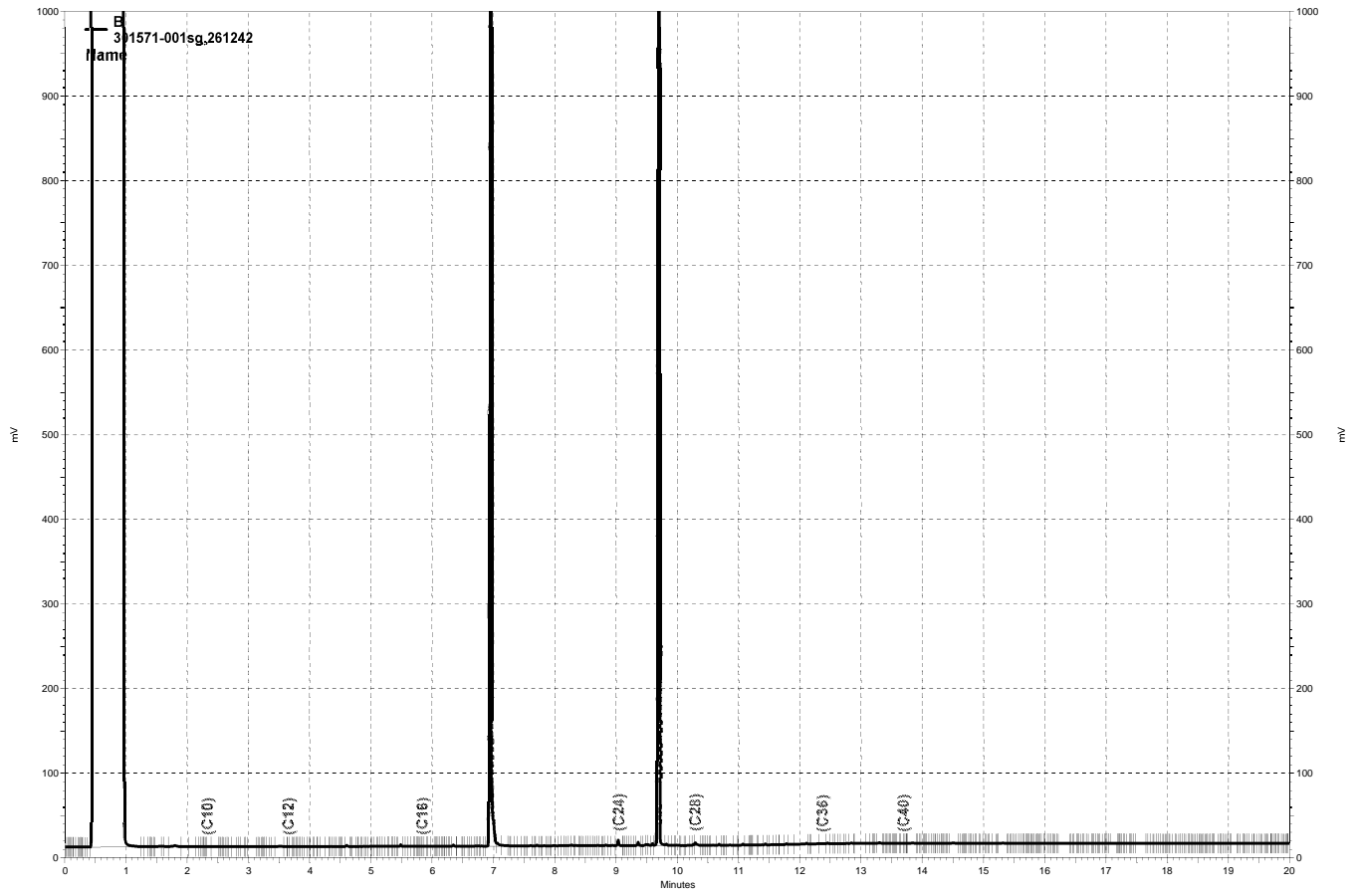
Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	228163090002	1.488	ND	50		u
Motor Oil C24-C36	B	228223554001	3.108	ND	300		u
Bunker C C12-C40	B	228112705001	11.13	ND	300	63	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	228263897001	53.10	250.0	265.5	106	58-123	u

WA1 07/19/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18

u=use



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b009, B

Sample Name: 301571-001sg,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 12:25:22 PM
 Analysis Date: 7/19/2018 1:05:45 PM
 Instrument: GC14B Vial: 9 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	30294	0.669
DSL:10-22	2989479	68.044
DSL:10-24	3004587	66.769
DSL:10-28	5632007	123.683
DSL:12-24	2990133	77.255
DSL:12-28	5617553	143.157
DSL:16-24	2974609	145.423
MO:22-32	2656768	91.958
MO:24-36	2685733	90.387
MO:28-40	144445	7.616
BUNKC:10-40	5767220	281.058
BUNKC:12-40	5752766	288.644

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

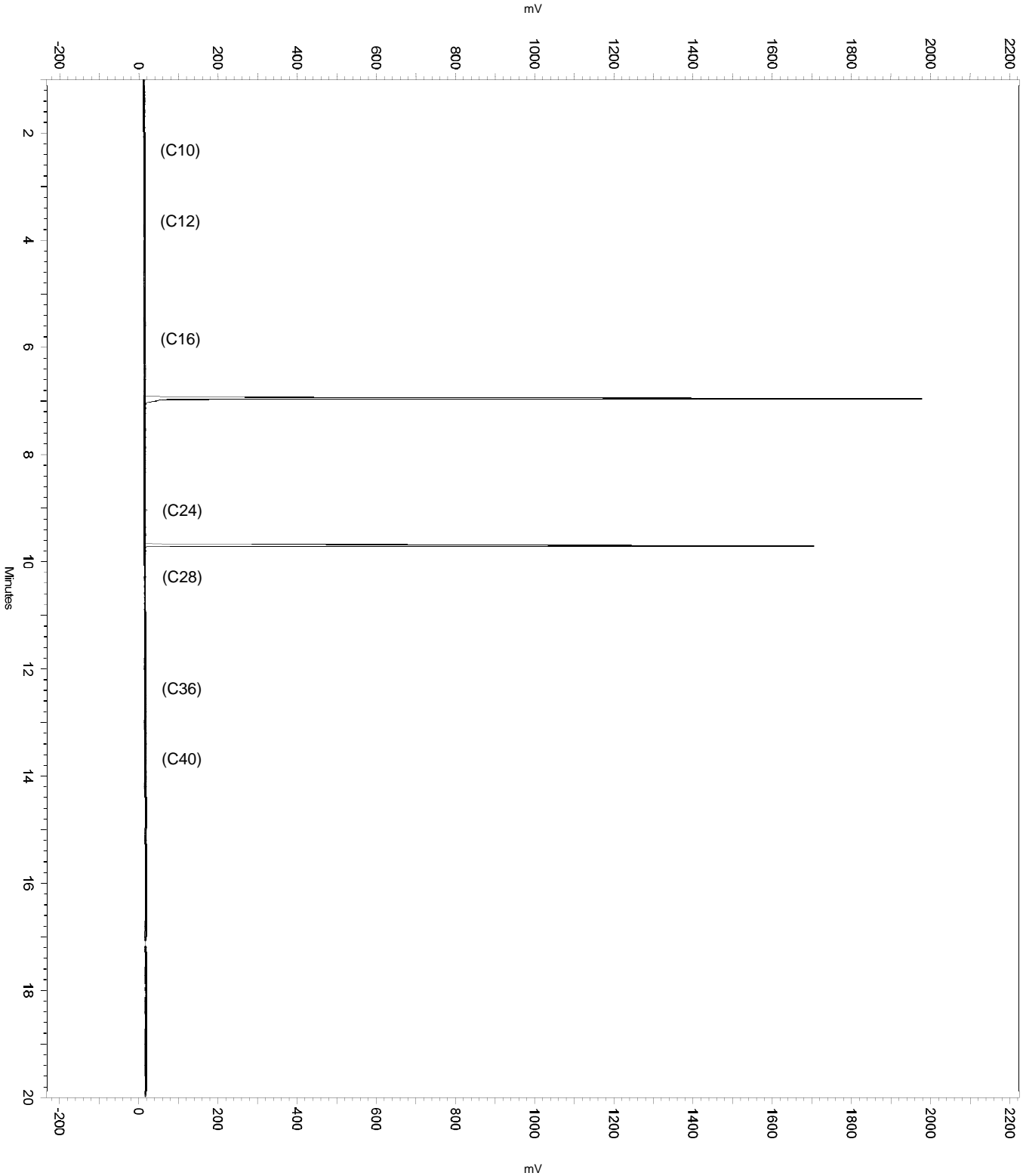
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b009
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      9.56      9.893    0
  
```

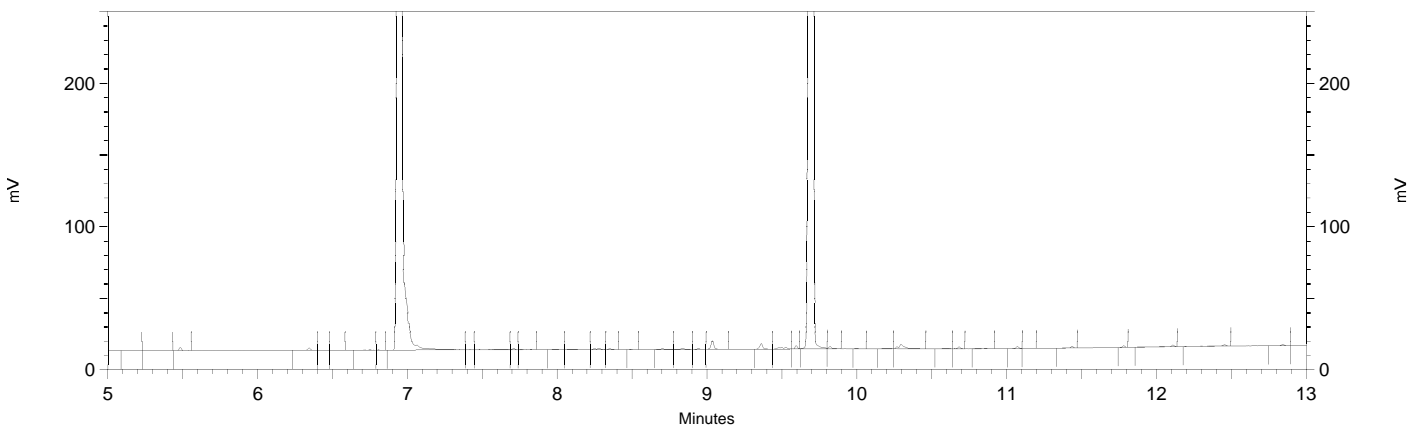
Sample Name: 301571-001sg,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b009
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 12:25:22 PM
Analysis Date: 7/19/2018 1:05:45 PM
Instrument: GC14B Vial: 9 Operator: Alcohol 1. Analyst (iims2k3\alcohol1)
Sample Amount: 1



Sample Name: 301571-001sg,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 12:25:22 PM
 Analysis Date: 7/19/2018 1:04:50 PM
 Instrument: GC14B Vial: 9 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.958	2937614	53.100
Hexacosane	9.707	2593395	51.935



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

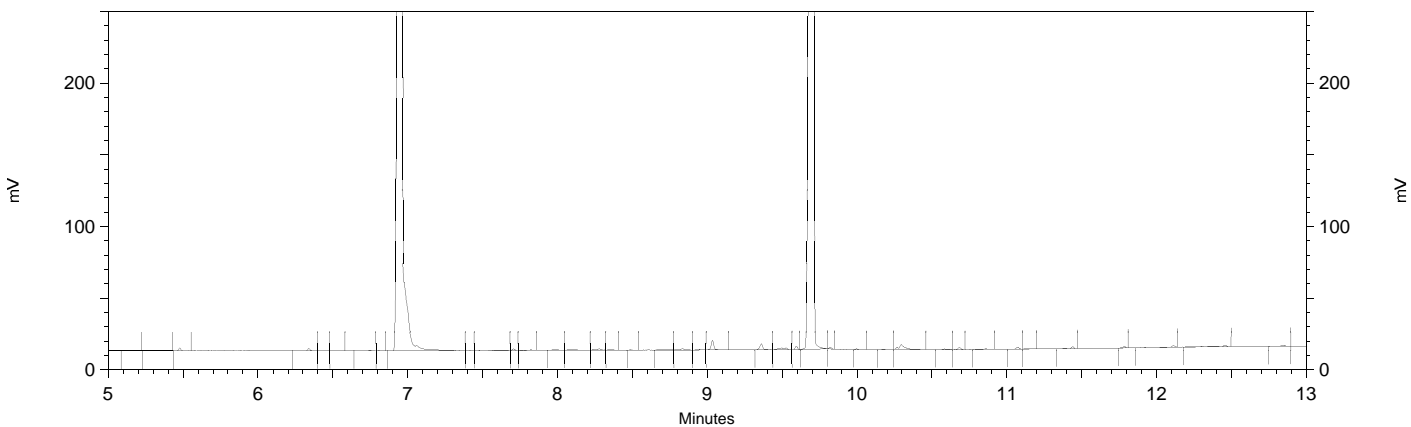
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	9.56	9.893	0

Sample Name: 301571-001sg,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 12:25:22 PM
 Analysis Date: 7/19/2018 12:45:31 PM
 Instrument: GC14B Vial: 9 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.958	2937614	53.100
Hexacosane	9.707	2590453	51.876



 << General Method Parameters >>-----

No items selected for this section

 << B >>-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b009_5BCF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 301571-002 (S) Client ID : BR11-1GW03
 Seqnum : 228288257010 Matrix : Water Acct : TRC-SF (MJD)
 File : 200_010 Batch : 261242 Time : 19-JUL-2018 12:53
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

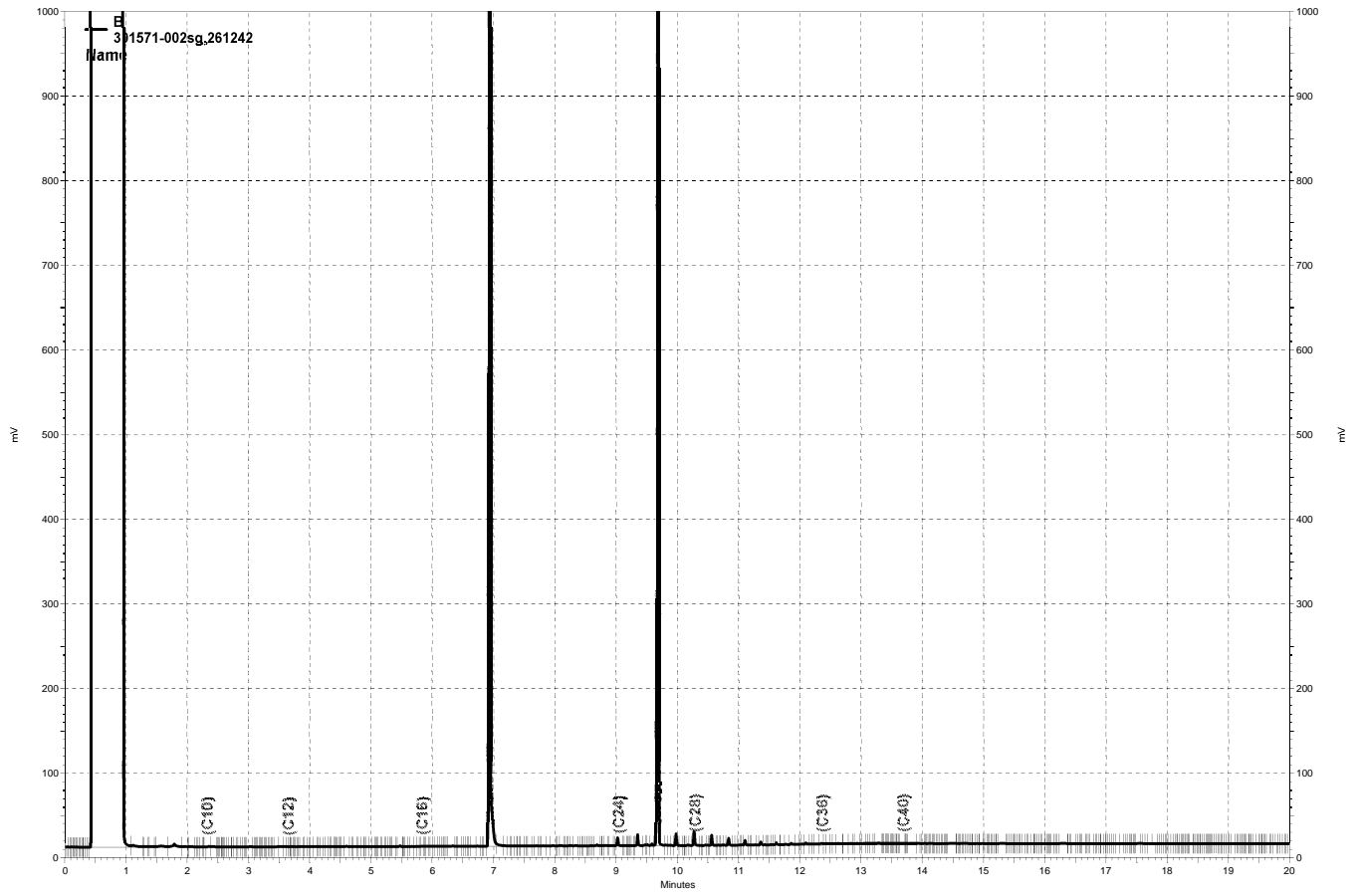
Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	228163090002	1.435	ND	50		u
Motor Oil C24-C36	B	228223554001	7.058	ND	300		u
Bunker C C12-C40	B	228112705001	19.50	ND	300	63	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	228263897001	47.33	250.0	236.6	95	58-123	u

CB1 07/19/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18

u=use



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b010, B

Sample Name: 301571-002sg,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 12:53:43 PM
 Analysis Date: 7/19/2018 2:03:07 PM
 Instrument: GC14B Vial: 10 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	21453	0.474
DSL:10-22	2663510	60.624
DSL:10-24	2682715	59.616
DSL:10-28	5059800	111.117
DSL:12-24	2673060	69.063
DSL:12-28	5050145	128.697
DSL:16-24	2661721	130.127
MO:22-32	2454895	84.970
MO:24-36	2514350	84.619
MO:28-40	283927	14.970
BUNKC:10-40	5321009	259.313
BUNKC:12-40	5311354	266.496

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

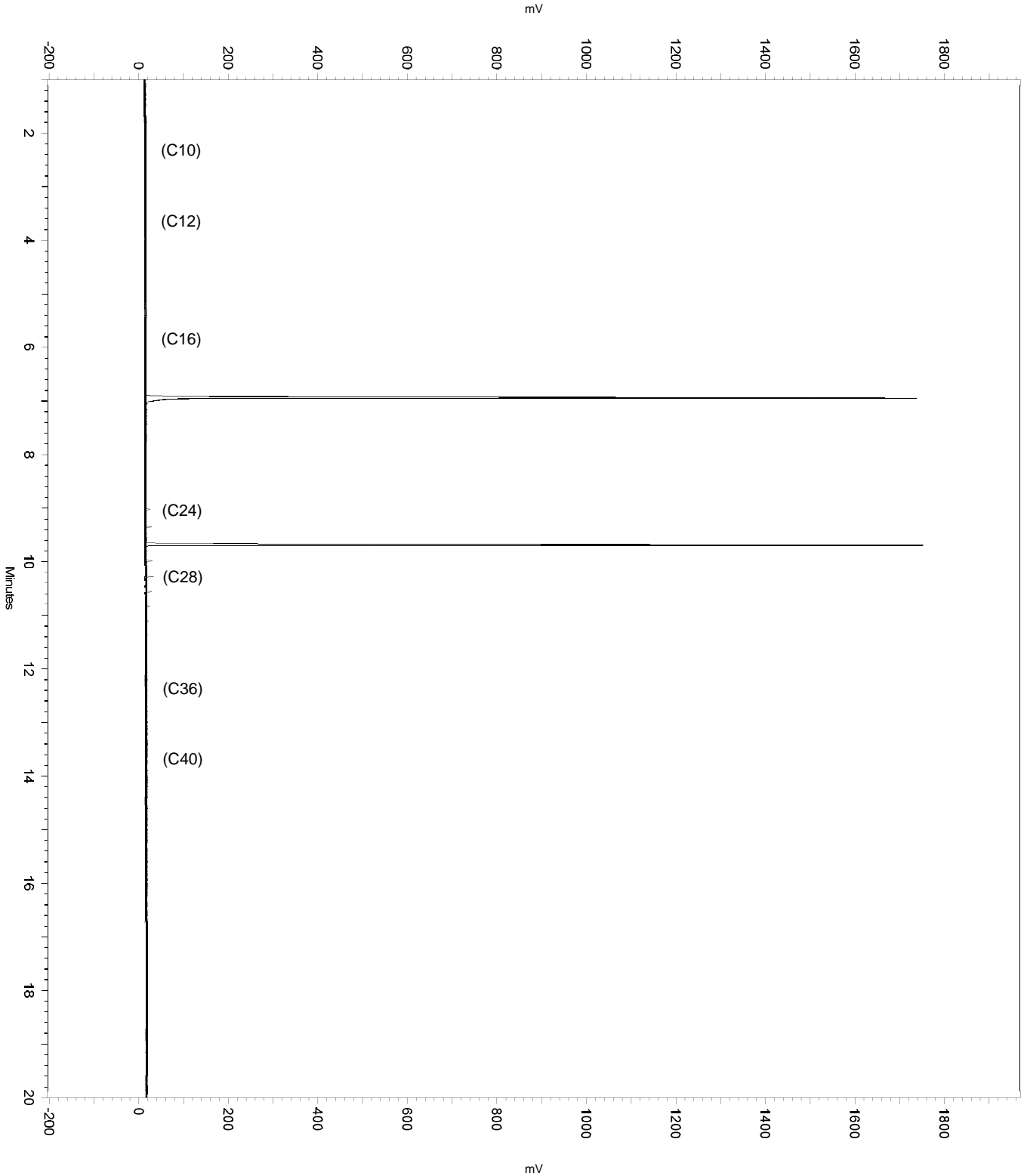
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.882	8.439	0
No	Split Peak	6.89	0	0
No	Split Peak	7.16	0	0
Yes	Move BL Start	8.982	5.3	0
No	Manual Peak	9.31	10.234	0
No	Split Peak	9.636	0	0
No	Split Peak	9.73	0	0
Yes	Move BL Stop	11.328	19.765	0

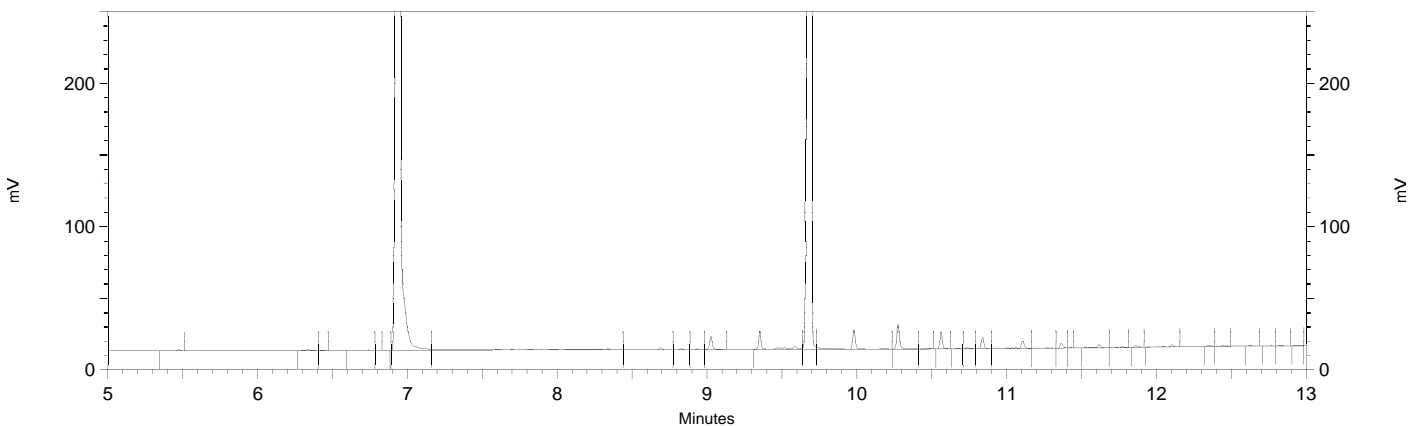
Sample Name: 301571-002sg,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b010
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 12:53:43 PM
Analysis Date: 7/19/2018 2:03:07 PM
Instrument: GC14B Vial: 10 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: 301571-002sg,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 12:53:43 PM
 Analysis Date: 7/19/2018 2:01:03 PM
 Instrument: GC14B Vial: 10 Operator: Alcohol 1. Analyst: (lms2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.945	2618157	47.326
Hexacosane	9.692	2304631	46.152



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

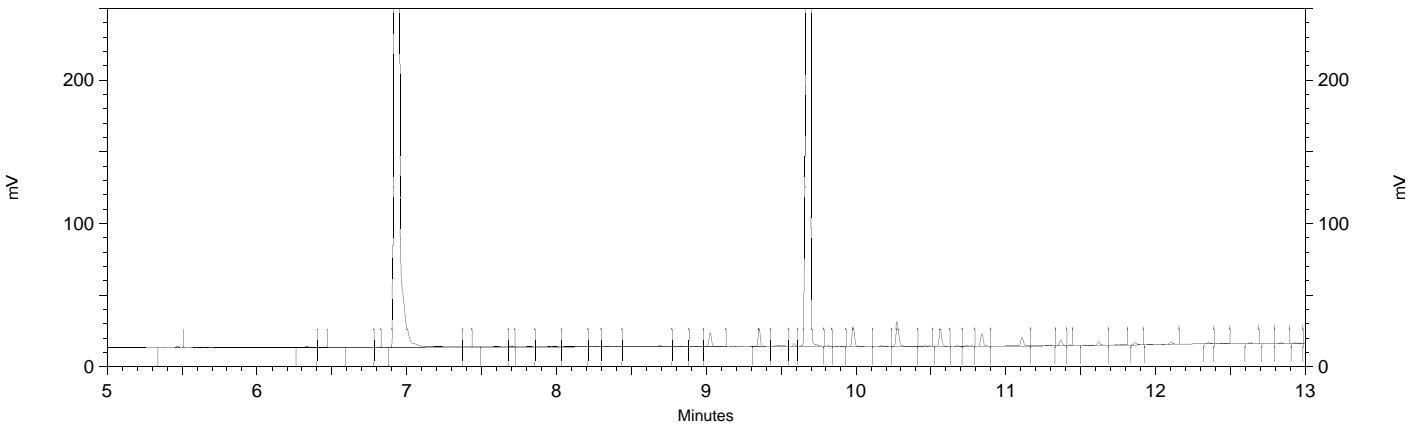
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.882	8.439	0
Yes	Split Peak	6.89	0	0
Yes	Split Peak	7.16	0	0
Yes	Manual Peak	9.31	10.234	0
Yes	Split Peak	9.636	0	0
Yes	Split Peak	9.73	0	0

Sample Name: 301571-002sg,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 12:53:43 PM
 Analysis Date: 7/19/2018 1:13:52 PM
 Instrument: GC14B Vial: 10 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.945	2620834	47.374
Hexacosane	9.692	2304177	46.143



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off     0          2          0
Yes Valley to Valley    0          20         0
Yes Shoulder Sensitivity 0          20         500
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b010_5BD0.tmp
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 301571-003 (S) Client ID : BR11-1GW02
 Seqnum : 228288257011 Matrix : Water Acct : TRC-SF (MJD)
 File : 200_011 Batch : 261242 Time : 19-JUL-2018 13:22
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

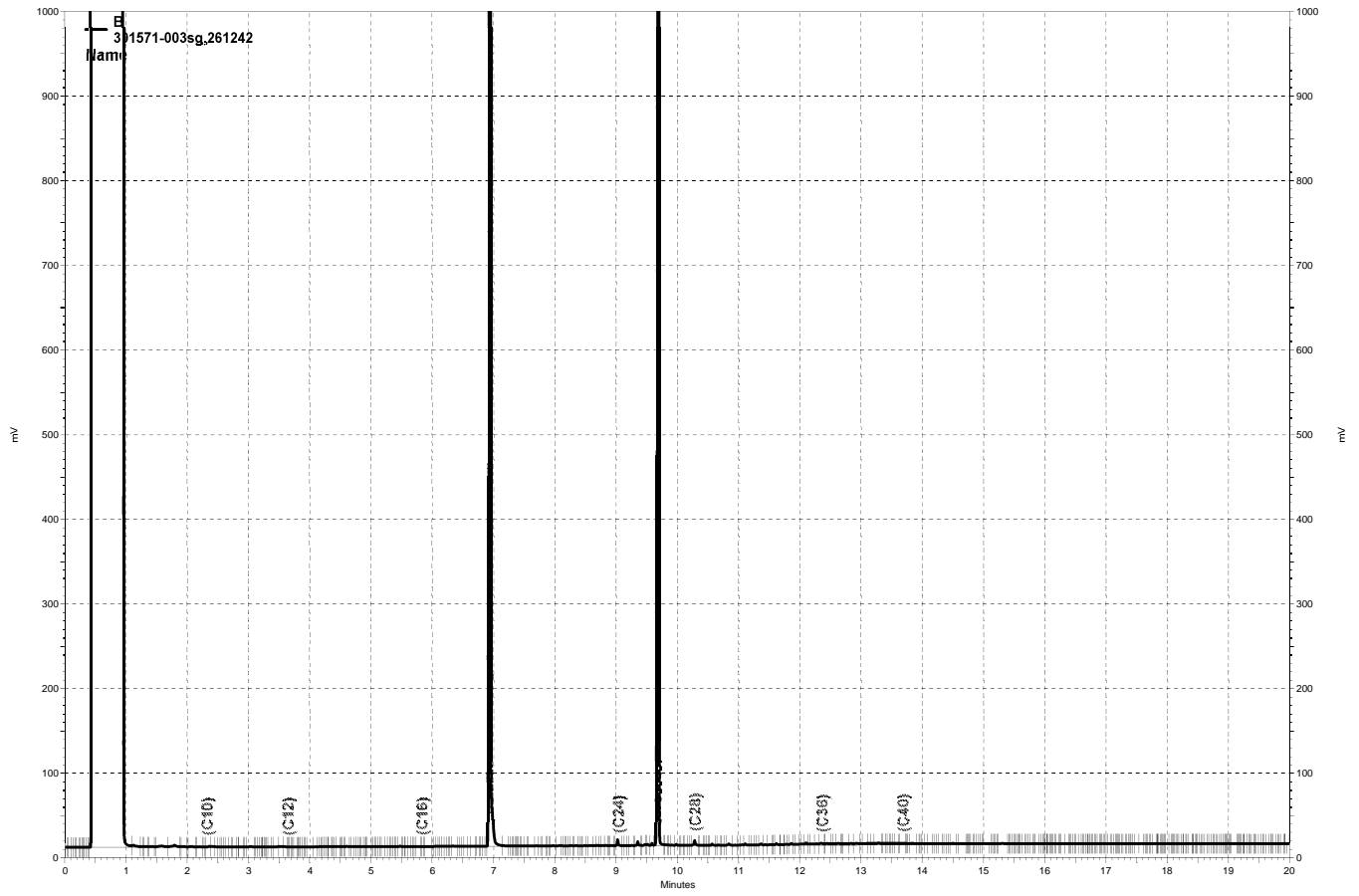
Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	228163090002	1.814	ND	50		u
Motor Oil C24-C36	B	228223554001	6.352	ND	300		u
Bunker C C12-C40	B	228112705001	19.71	ND	300	63	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	228263897001	54.24	250.0	271.2	108	58-123	u

CB1 07/19/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18

u=use



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b011, B

Sample Name: 301571-003sg,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 1:22:06 PM
 Analysis Date: 7/19/2018 2:03:24 PM
 Instrument: GC14B Vial: 11 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	25813	0.570
DSL:10-22	3058340	69.611
DSL:10-24	3082286	68.496
DSL:10-28	5737575	126.002
DSL:12-24	3067872	79.264
DSL:12-28	5723161	145.848
DSL:16-24	3056944	149.449
MO:22-32	2722367	94.228
MO:24-36	2782183	93.633
MO:28-40	275894	14.546
BUNKC:10-40	6001381	292.470
BUNKC:12-40	5986967	300.395

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

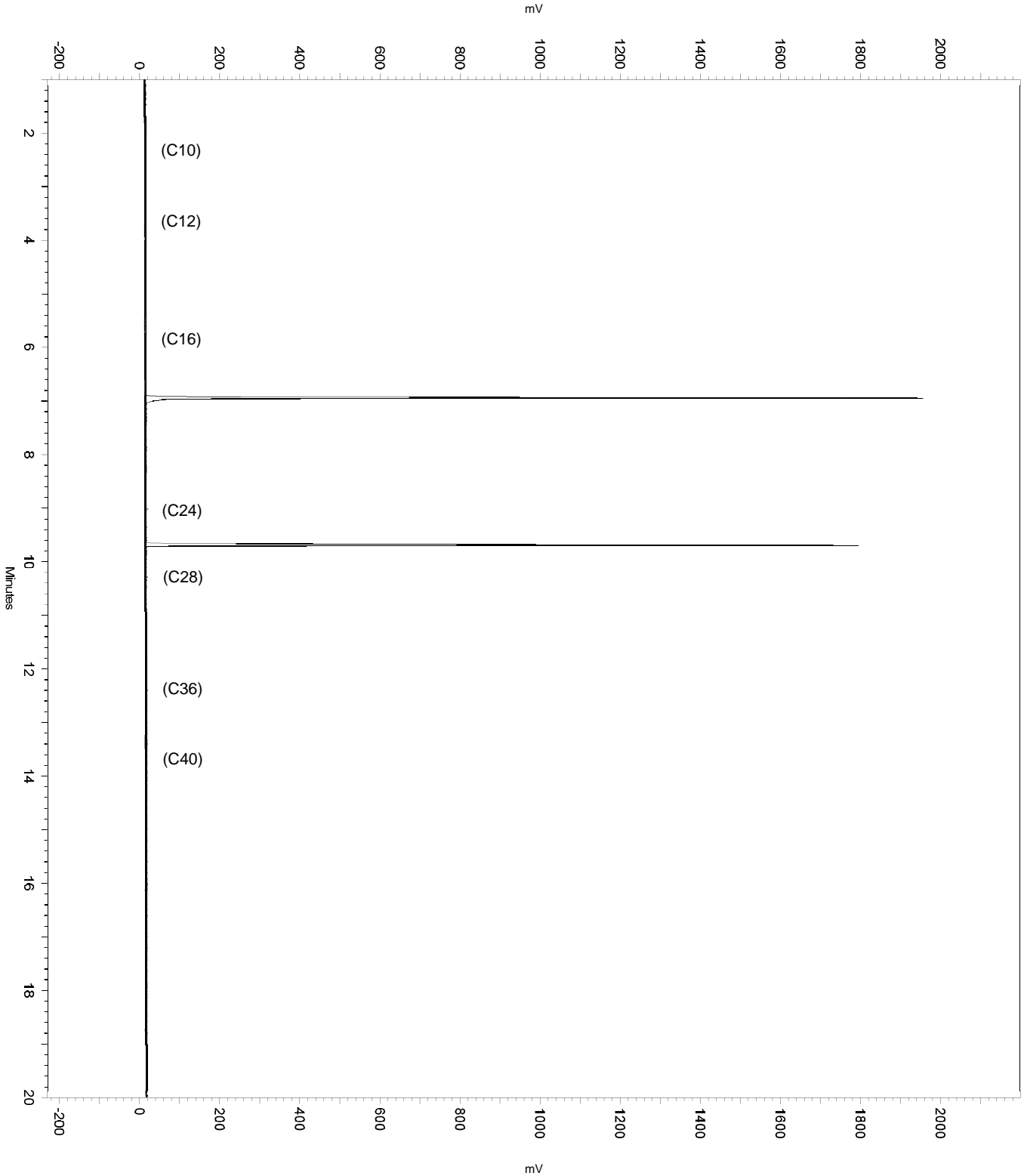
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b011
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Peak          6.888     7.669     0
No Split Peak           6.895     0         0
No Split Peak           7.089     0         0
No Manual Peak          9.425     10.06     0
No Split Peak           9.64      0         0
No Split Peak           9.731     0         0
No Reassign Peak        9.757     9.69      0
Yes Move BL Stop        10.76     19.927    0
  
```

Sample Name: 301571-003sg,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b011
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 1:22:06 PM
Analysis Date: 7/19/2018 2:03:24 PM
Instrument: GC14B Vial: 11 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

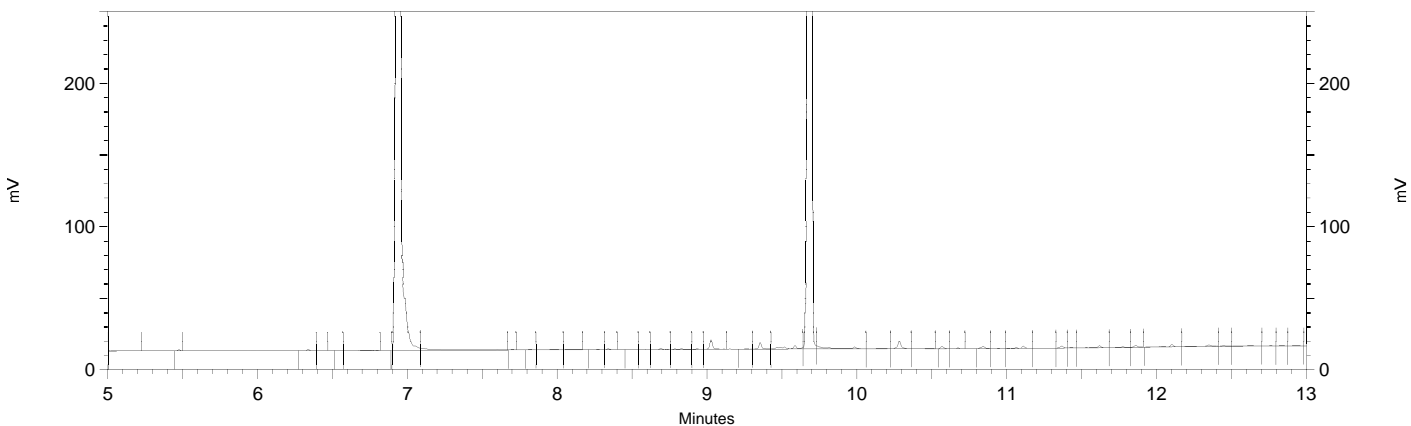


Sample Name: 301571-003sg,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 1:22:06 PM
 Analysis Date: 7/19/2018 2:02:19 PM
 Instrument: GC14B Vial: 11 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.948	3000640	54.239
Hexacosane	9.697	2593451	51.936



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

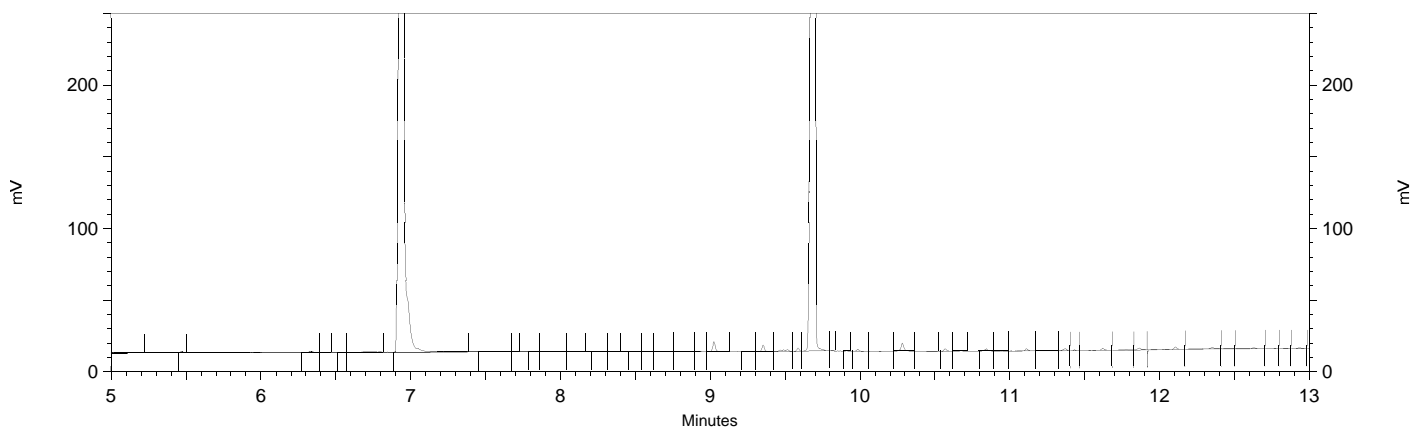
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.888	7.669	0
Yes	Split Peak	6.895	0	0
Yes	Split Peak	7.089	0	0
Yes	Manual Peak	9.425	10.06	0
Yes	Split Peak	9.64	0	0
Yes	Split Peak	9.731	0	0
Yes	Reassign Peak	9.757	9.69	0

Sample Name: 301571-003sg,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 1:22:06 PM
 Analysis Date: 7/19/2018 1:42:15 PM
 Instrument: GC14B Vial: 11 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.948	3007603	54.365
Hexacosane	9.697	2593282	51.933



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b011_5BD1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

QC Raw Data

ENTHALPY BLANK USER REPORT FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Lab ID : QC938836 (S)
 Seqnum : 228288257006.1 Matrix : Water
 File : 200_006 Batch : 261242 Time : 19-JUL-2018 10:40
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

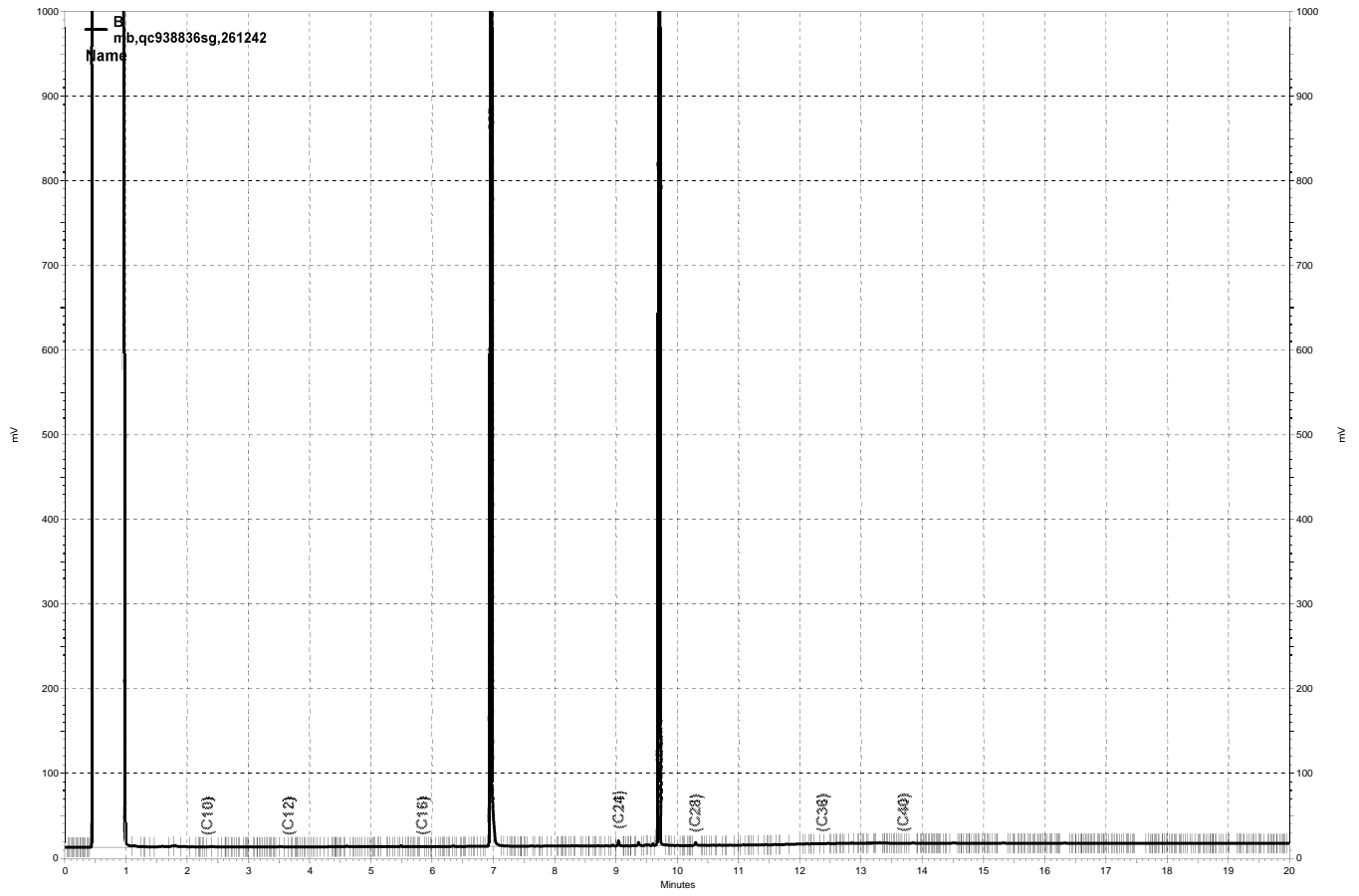
Analyte	Ch	Cal	Raw	Result	RL	Flags
Diesel C10-C24	B	228163090002	1.135	ND	50	u
Motor Oil C24-C36	B	228223554001	3.453	ND	300	u
Bunker C C12-C40	B	228112705001	12.63	ND	300	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	228263897001	52.20	250.0	261.0	104	58-123	u

WA1 07/19/18 : Corrected automatically drawn baseline. [general version]

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18

u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b006, B

Sample Name: mb,qc938836sg,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b006
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 10:40:21 AM
 Analysis Date: 7/19/2018 1:05:12 PM
 Instrument: GC14B Vial: 6 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	22633	0.500
DSL:10-22	2925849	66.595
DSL:10-24	2939137	65.315
DSL:10-28	5524182	121.316
DSL:12-24	2927934	75.648
DSL:12-28	5512979	140.492
DSL:16-24	2916970	142.605
MO:22-32	2613759	90.469
MO:24-36	2655295	89.362
MO:28-40	187168	9.868
BUNKC:10-40	5703749	277.965
BUNKC:12-40	5692546	285.622

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

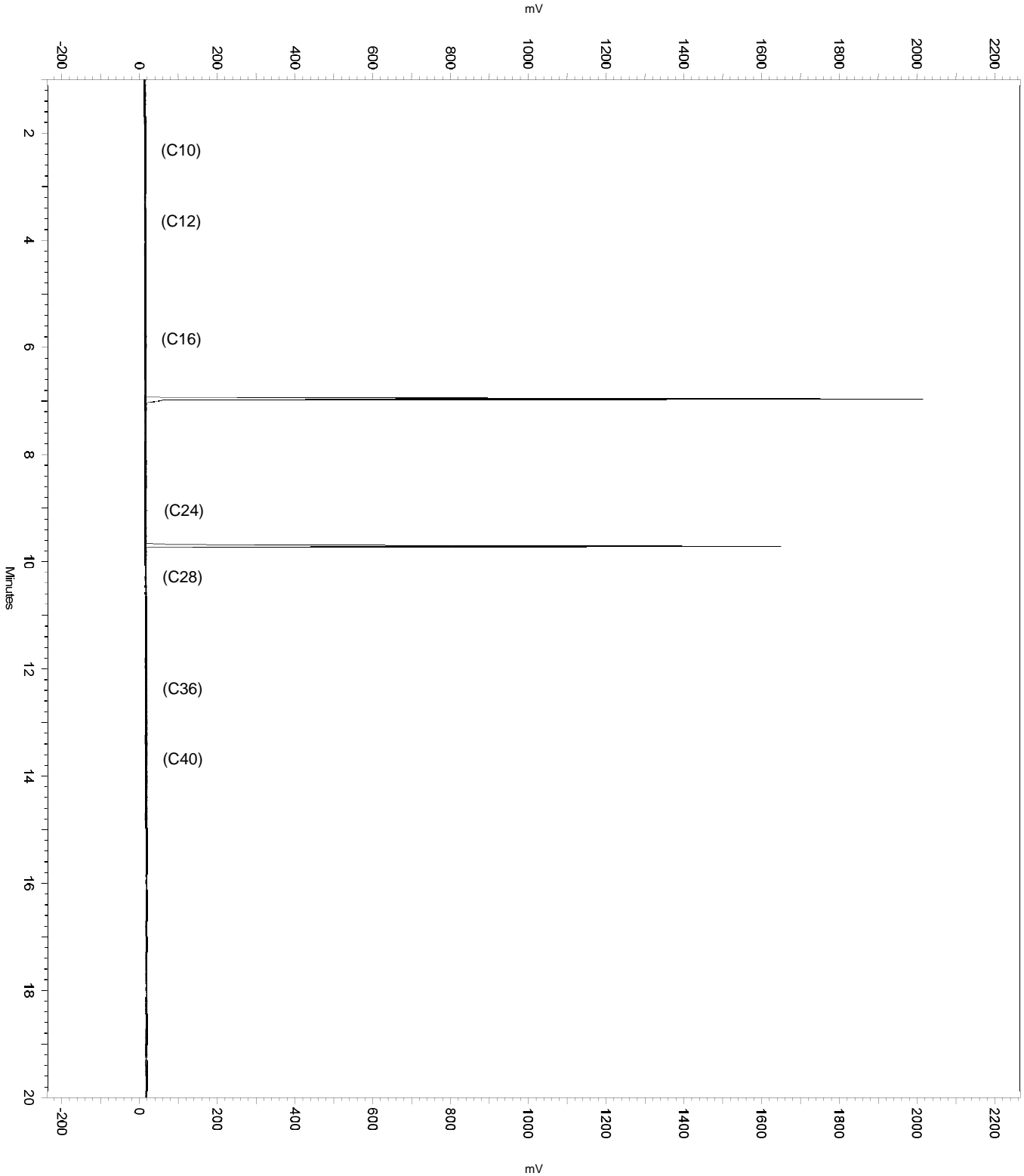
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop      2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b006
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      9.452     9.871     0
  
```

Sample Name: mb,qc938836sg,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b006
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 10:40:21 AM
Analysis Date: 7/19/2018 1:05:12 PM
Instrument: GC14B Vial: 6 Operator: Alcohol 1. Analyst (iims2k3\alcohol1)
Sample Amount: 1

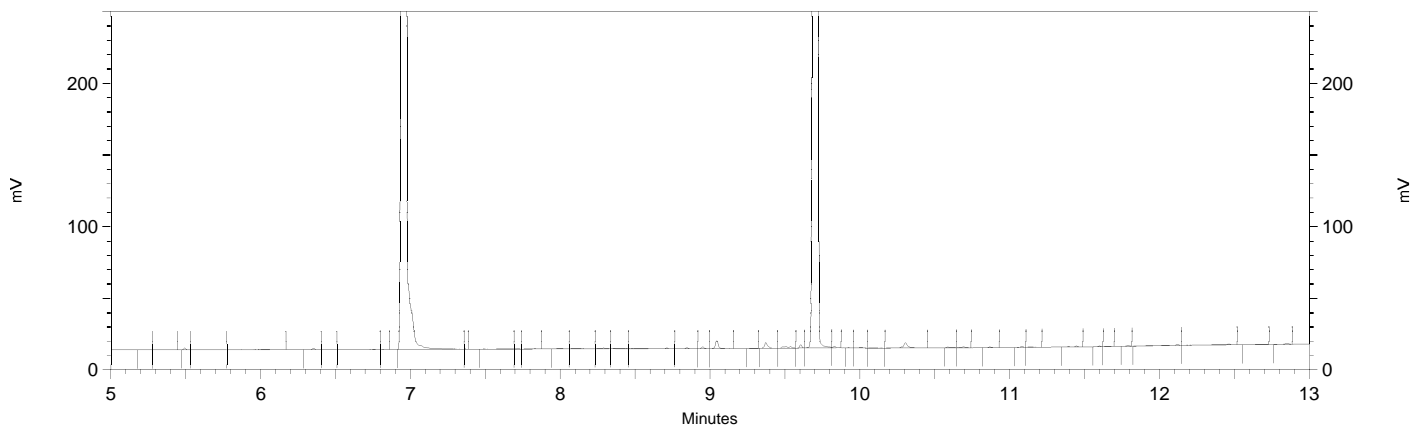


Sample Name: **mb,qc938836sg,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b006
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 10:40:21 AM
 Analysis Date: 7/19/2018 1:03:54 PM
 Instrument: GC14B Vial: 6 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.967	2888058	52.204
Hexacosane	9.715	2552680	51.120



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

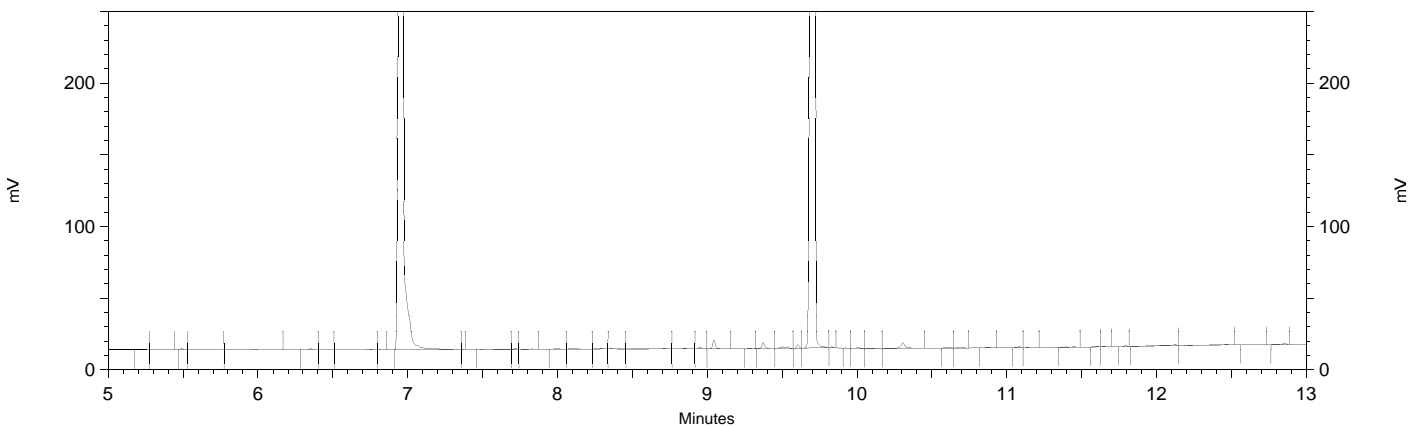
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b006
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Manual Baseline     9.452  9.871    0
  
```

Sample Name: mb,qc938836sg,261242
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b006
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 10:40:21 AM
 Analysis Date: 7/19/2018 11:00:30 AM
 Instrument: GC14B Vial: 6 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.967	2888058	52.204
Hexacosane	9.715	2550405	51.074



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b006_5BCB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SPIKE USER REPORT FOR 301571 GCSV Water
EPA 8015B

Type : BS
 Inst : GC14B
 Seqnum : 228288257007.1
 File : 200_007
 IDF : 1.0
 Lab ID : QC938837 (S)
 Matrix : Water
 Batch : 261242
 Time : 19-JUL-2018 11:28
 Cal : 228163090002
 Cal : 228263897001
 Units : ug/L

Type : BSD
 Inst : GC14B
 Seqnum : 228288257008.1
 File : 200_008
 IDF : 1.0
 Lab ID : QC938838 (S)
 Matrix : Water
 Batch : 261242
 Time : 19-JUL-2018 11:57
 Cal : 228163090002
 Cal : 228263897001

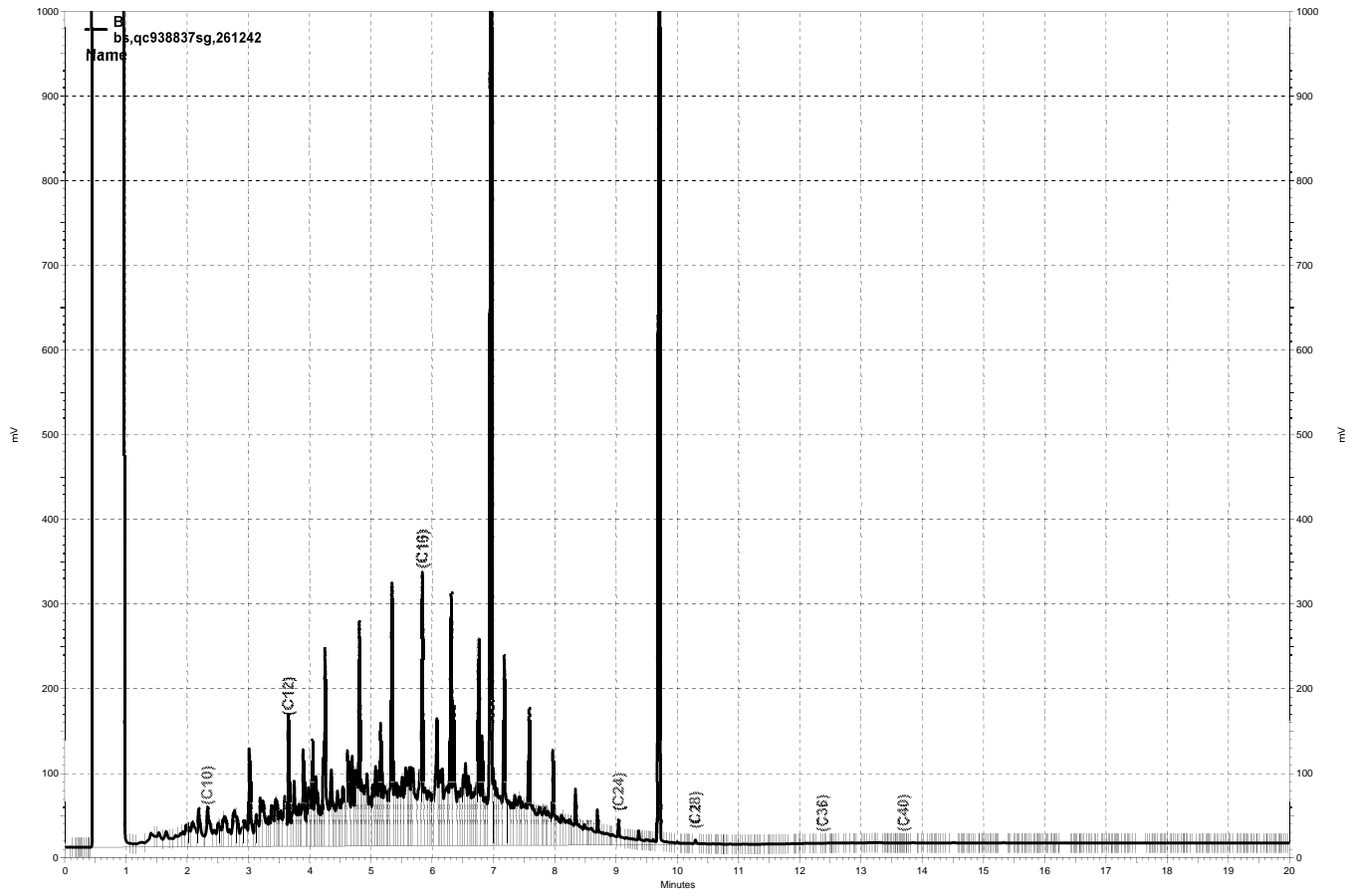
BS: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF
 BSD: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

Analyte	Spiked	BS		Ch	%Rec	BSD		Ch	%Rec	Limits	RPD	Lim	Flags
		Raw	Result			Raw	Result						
Diesel C10-C24	2500	488.1	2440	B	98	553.2	2766	B	111	56-120	13	28	u
o-Terphenyl	250.0	54.09	270.5	B	108	61.48	307.4	B	123	58-123			u

WA1 07/19/18 : Corrected automatically drawn baseline for spike & dup. [general version]

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18

u=use



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b007, B

Sample Name: **bs,qc938837sg,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b007
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 11:28:11 AM
 Analysis Date: 7/19/2018 1:05:25 PM
 Instrument: GC14B Vial: 7 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12341611	272.586
DSL:10-22	24281484	552.672
DSL:10-24	24955918	554.579
DSL:10-28	27864172	611.920
DSL:12-24	22574838	583.261
DSL:12-28	25483092	649.409
DSL:16-24	13523783	661.154
MO:22-32	3847404	133.169
MO:24-36	3045812	102.505
MO:28-40	85772	4.522
BUNKC:10-40	27935310	1361.391
BUNKC:12-40	25554230	1282.178

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

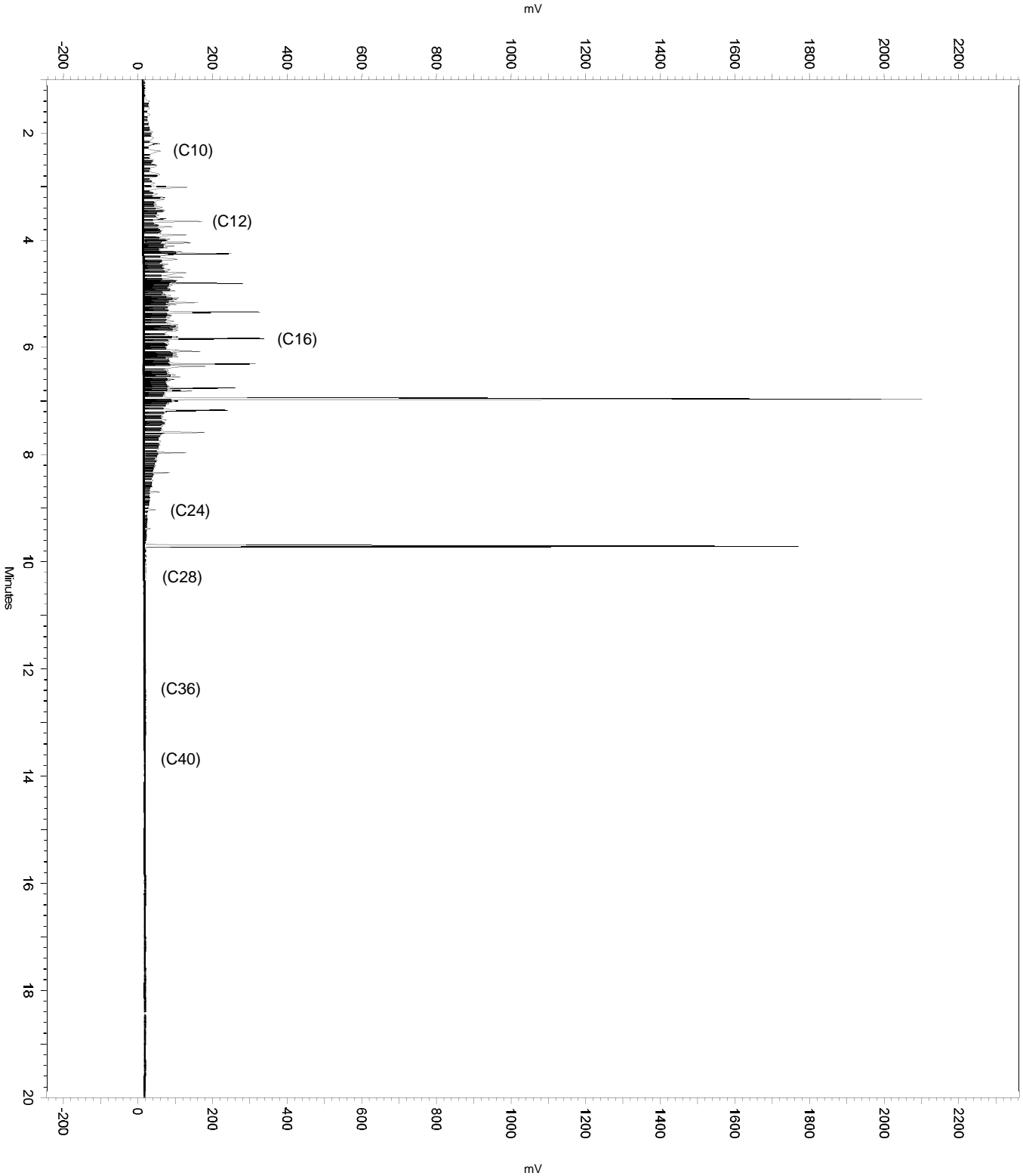
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b007
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline     6.901     7.138    0
  
```

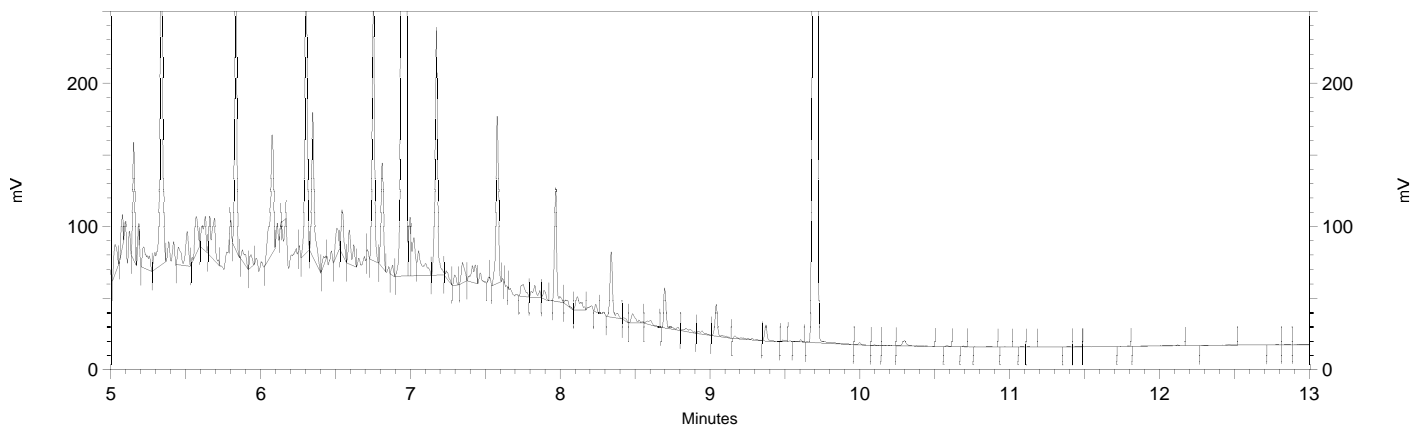
Sample Name: bs,qc938837sg,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b007
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 11:28:11 AM
Analysis Date: 7/19/2018 1:05:25 PM
Instrument: GC14B Vial: 7 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
Sample Amount: 1



Sample Name: **bs,qc938837sg,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b007
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 11:28:11 AM
 Analysis Date: 7/19/2018 1:04:09 PM
 Instrument: GC14B Vial: 7 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.970	2992545	54.093
Hexacosane	9.713	2625739	52.583



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

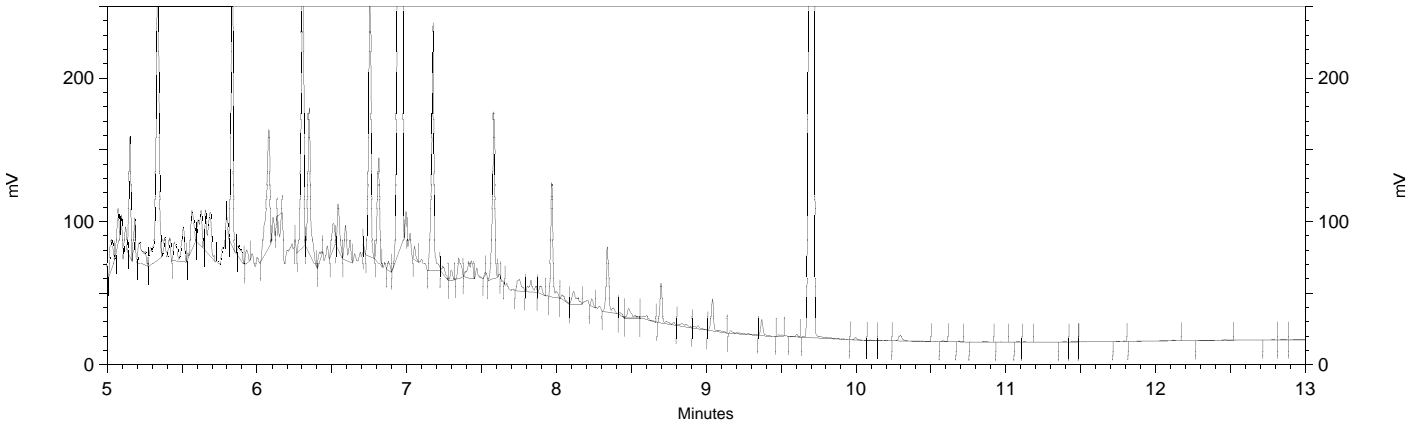
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.901	7.138	0

Sample Name: **bs,qc938837sg,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b007
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 11:28:11 AM
 Analysis Date: 7/19/2018 11:48:20 AM
 Instrument: GC14B Vial: 7 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.970	2935801	53.067
Hexacosane	9.713	2625739	52.583



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

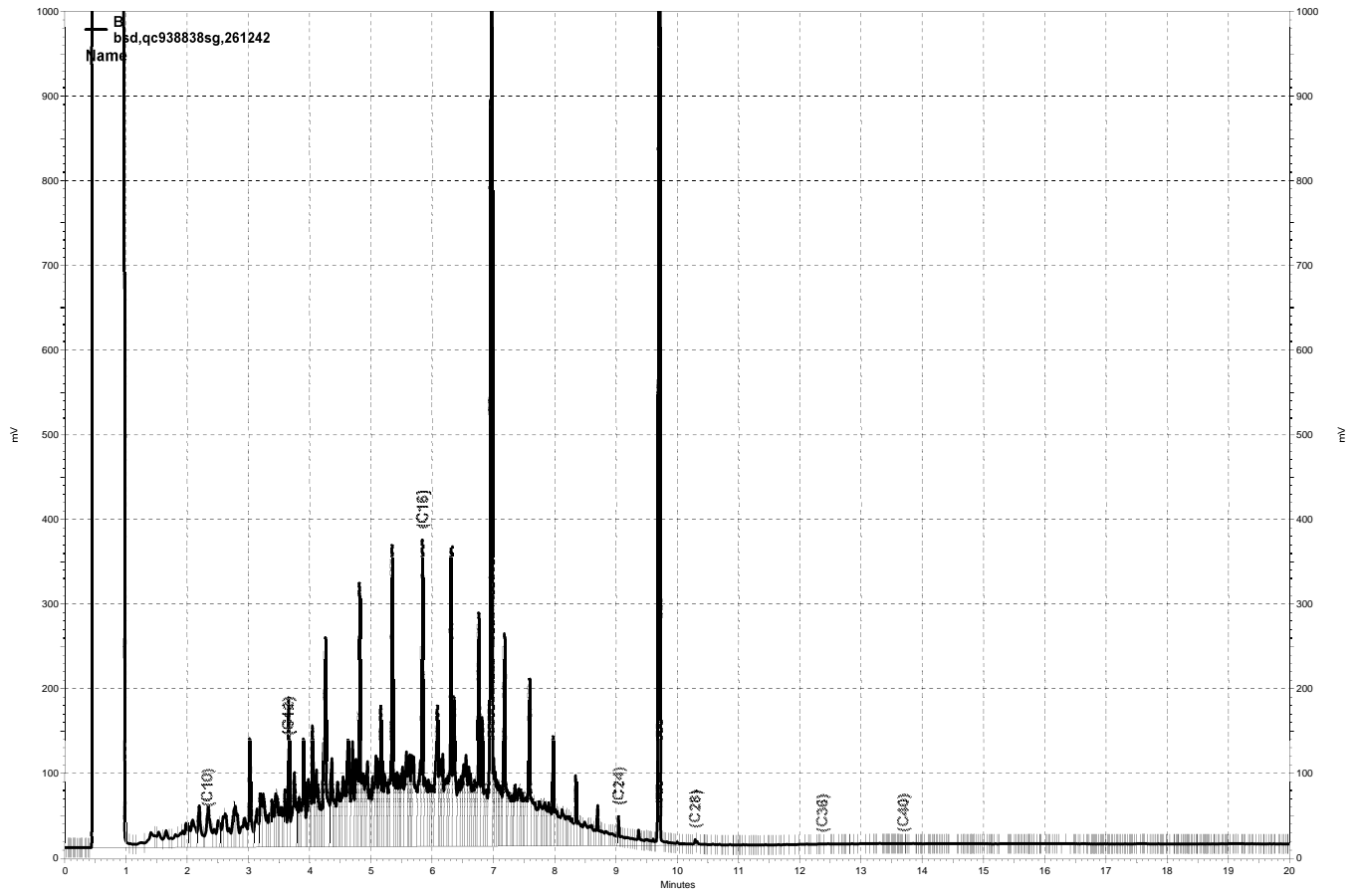
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b007_5BCD.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b008, B

Sample Name: **bsd,qc938838sg,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 11:57:00 AM
 Analysis Date: 7/19/2018 1:05:34 PM
 Instrument: GC14B Vial: 8 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	13848802	305.875
DSL:10-22	27550398	627.076
DSL:10-24	28294960	628.781
DSL:10-28	31591608	693.778
DSL:12-24	25632620	662.264
DSL:12-28	28929268	737.230
DSL:16-24	15503853	757.956
MO:22-32	4375161	151.436
MO:24-36	3447603	116.027
MO:28-40	91061	4.801
BUNKC:10-40	31657420	1542.783
BUNKC:12-40	28995080	1454.822

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

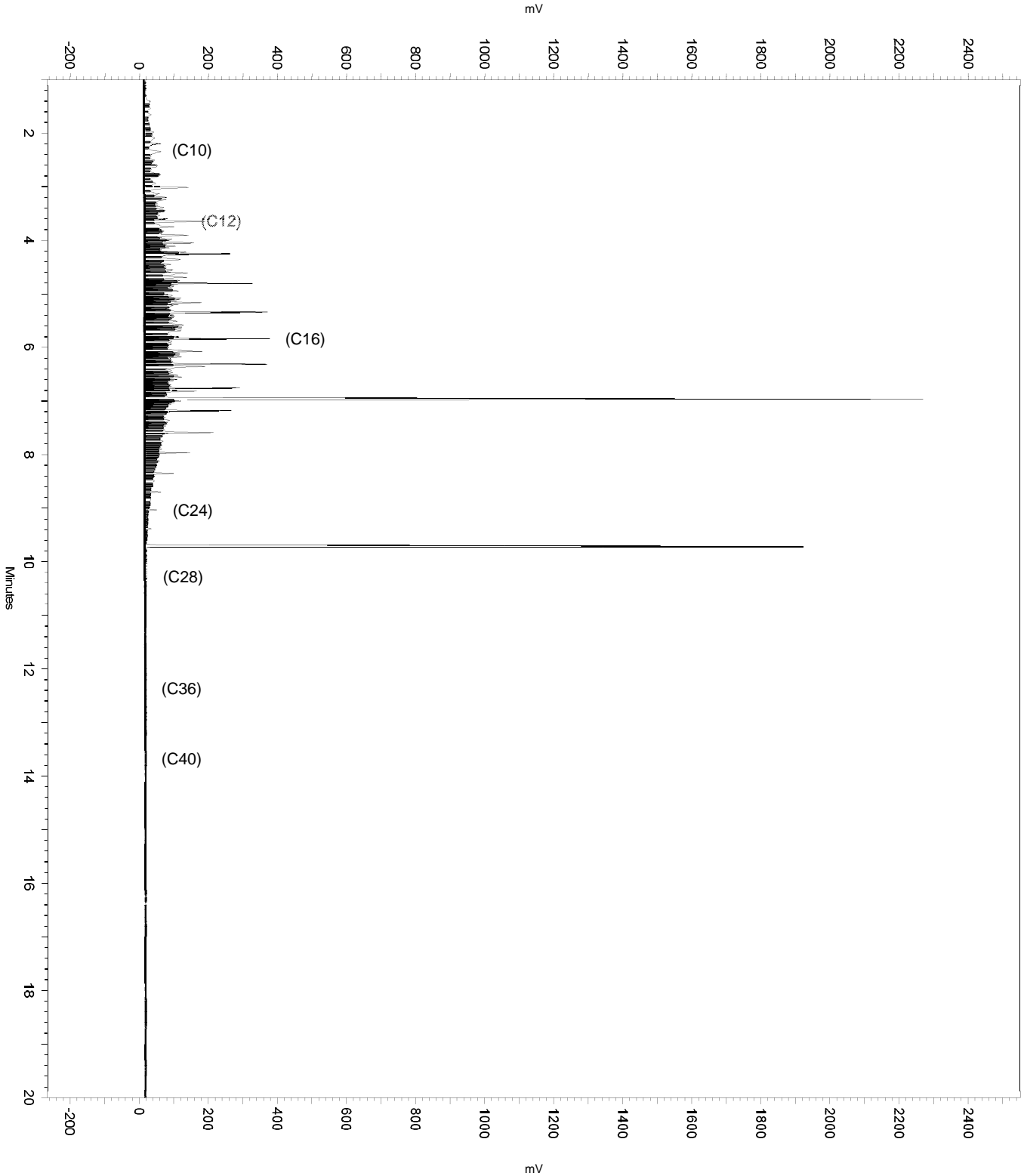
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0      0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b008
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      6.904     7.146    0
No Split Peak           6.99      0      0
  
```

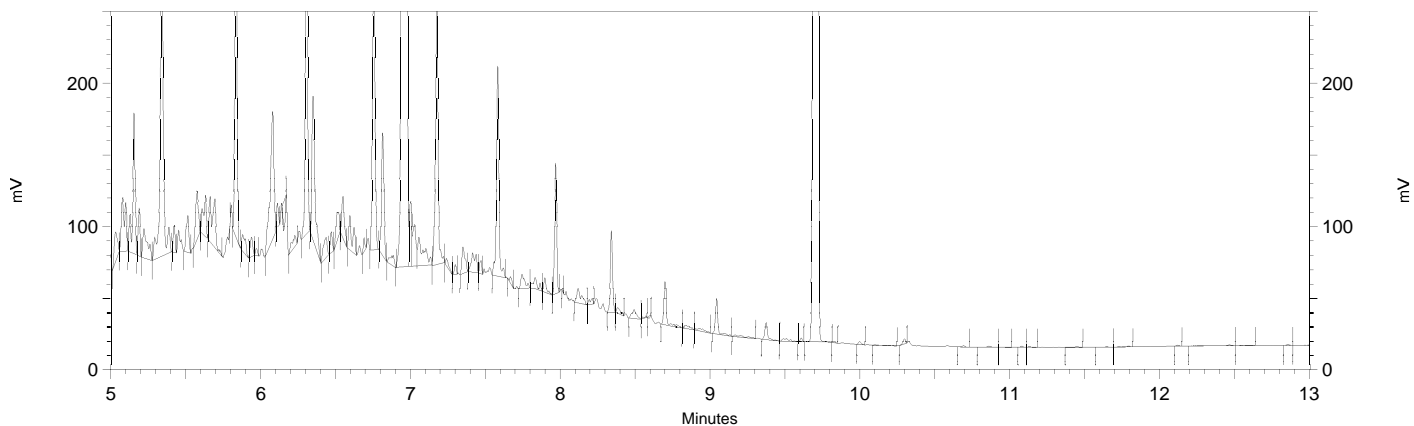
Sample Name: bsd,qc938838sg,261242
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b008
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 11:57:00 AM
Analysis Date: 7/19/2018 1:05:34 PM
Instrument: GC14B Vial: 8 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
Sample Amount: 1



Sample Name: **bsd,qc938838sg,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 11:57:00 AM
 Analysis Date: 7/19/2018 1:04:29 PM
 Instrument: GC14B Vial: 8 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.973	3401342	61.482
Hexacosane	9.718	2937215	58.820



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

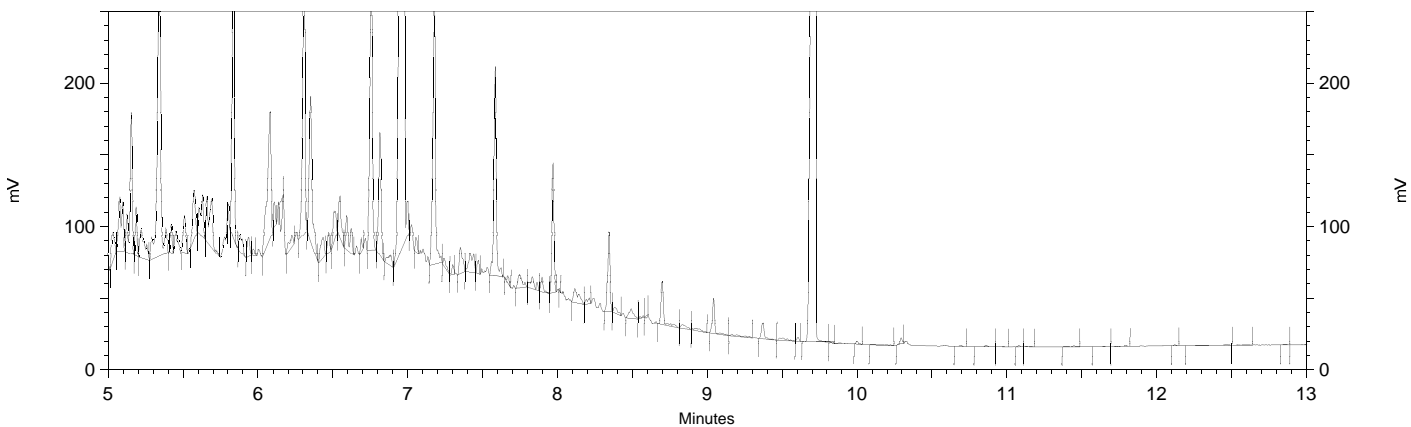
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.904	7.146	0
Yes	Split Peak	6.99	0	0

Sample Name: **bsd,qc938838sg,261242**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 11:57:00 AM
 Analysis Date: 7/19/2018 12:17:09 PM
 Instrument: GC14B Vial: 8 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.973	3374962	61.005
Hexacosane	9.718	2937215	58.820



 << General Method Parameters >>

No items selected for this section

 << B >>

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b008_5BCE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 301571 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228112705001
 Units : mg/L

Name : BUNK_078 5 pt
 Date : 19-MAR-2018 18:08
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	078_015	228112705015	BUNK_50	19-MAR-2018 18:08	S35500
L2	078_016	228112705016	BUNK_250	19-MAR-2018 18:37	S35501
L3	078_017	228112705017	BUNK_500	19-MAR-2018 19:06	S35502
L4	078_018	228112705018	BUNK_1250	19-MAR-2018 19:35	S35503
L5	078_019	228112705019	BUNK_2500	19-MAR-2018 20:04	S35504
L6	078_020	228112705020	BUNK_5000	19-MAR-2018 20:34	S35499

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Bunker C C12-C40	B	16353	20860	21971	17514	21271	21612	AVRG		5.02E-5		19930	12	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Bunker C C12-C40	B	50.000	-18	250.00	5	500.00	10	1250.0	-12	2500.0	7	5000.0	8

WA1 03/20/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 03/20/18

Reviewer: EAH

Date: 03/20/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

Sample Name: ical,s35500,bunk_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
 Run Date: 3/19/2018 6:08:14 PM
 Analysis Date: 3/20/2018 10:28:55 AM
 Instrument: GC14B Vial: 15 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	155380	0.000 CAL
DSL:10-22	305744	0.000 CAL
DSL:10-24	392487	0.000 CAL
DSL:10-28	568145	0.000 CAL
DSL:12-24	362826	0.000 CAL
DSL:12-28	538484	0.000 CAL
DSL:16-24	245314	0.000 CAL
MO:22-32	359684	0.000 CAL
MO:24-36	362592	0.000 CAL
MO:28-40	297675	0.000 CAL
BUNKC:10-40	847326	50.000 CAL
BUNKC:12-40	817665	50.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

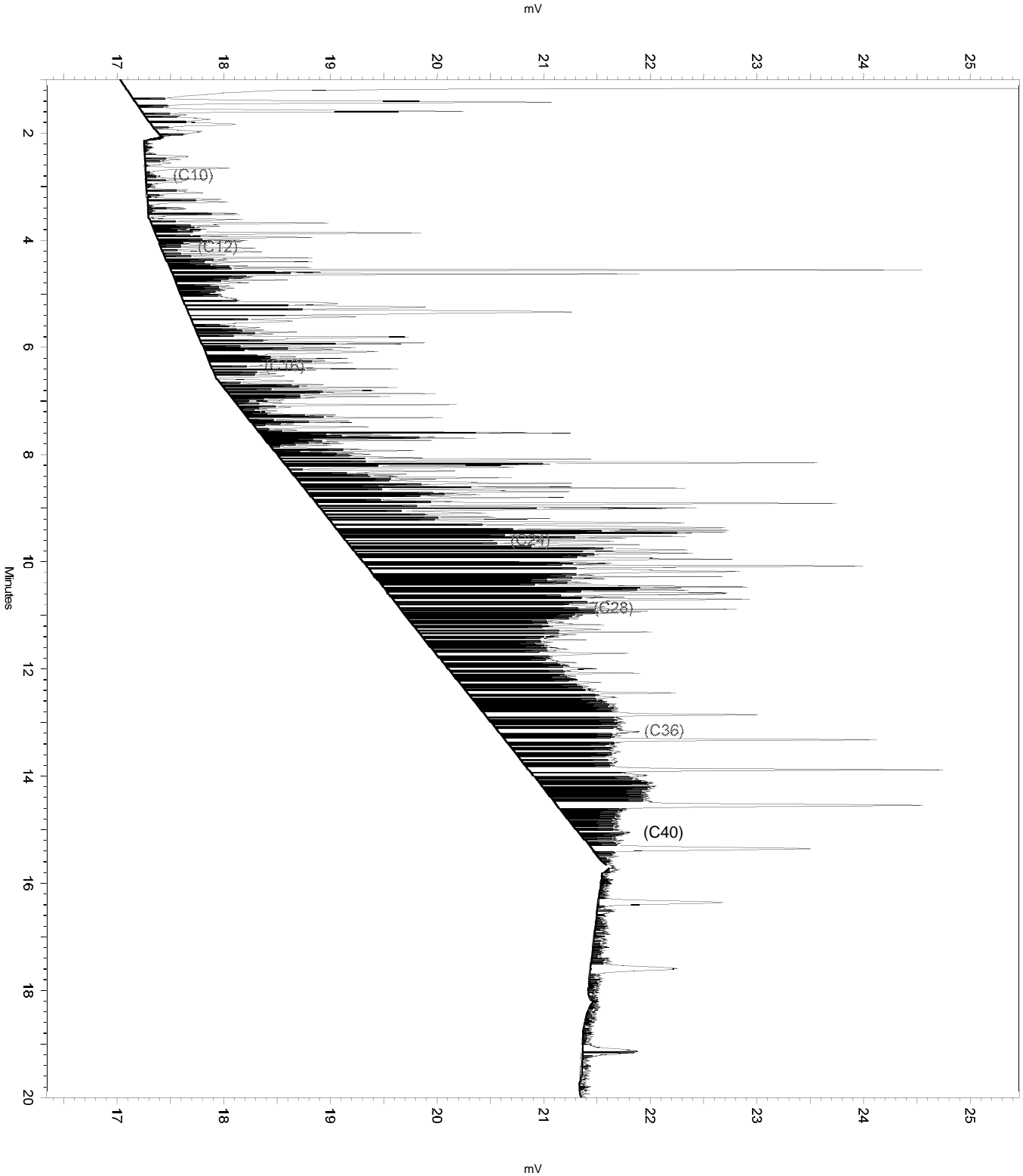
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b015
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

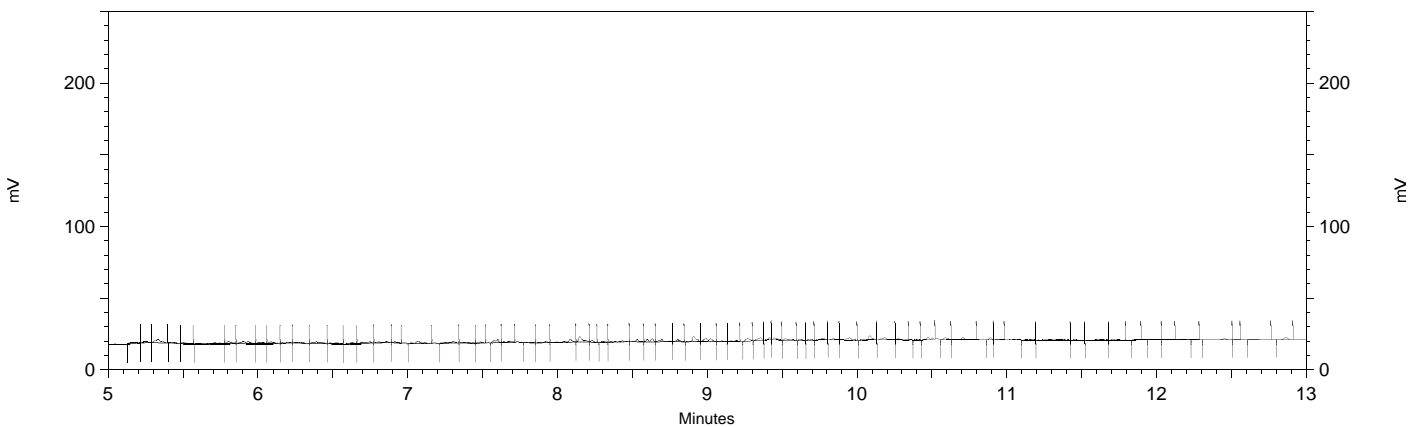

Sample Name: ical,s35500,bunk_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b015
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
Run Date: 3/19/2018 6:08:14 PM
Analysis Date: 3/20/2018 10:28:55 AM
Instrument: GC14B Vial: 15 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s35500,bunk_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsur078.met
 Run Date: 3/19/2018 6:08:14 PM
 Analysis Date: 3/19/2018 6:28:24 PM
 Instrument: GC14B Vial: 15 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.483	1770	0.037
Hexacosane	10.272	2528	0.061



 < General Method Parameters >-----

No items selected for this section

 < B >-----

No items selected for this section

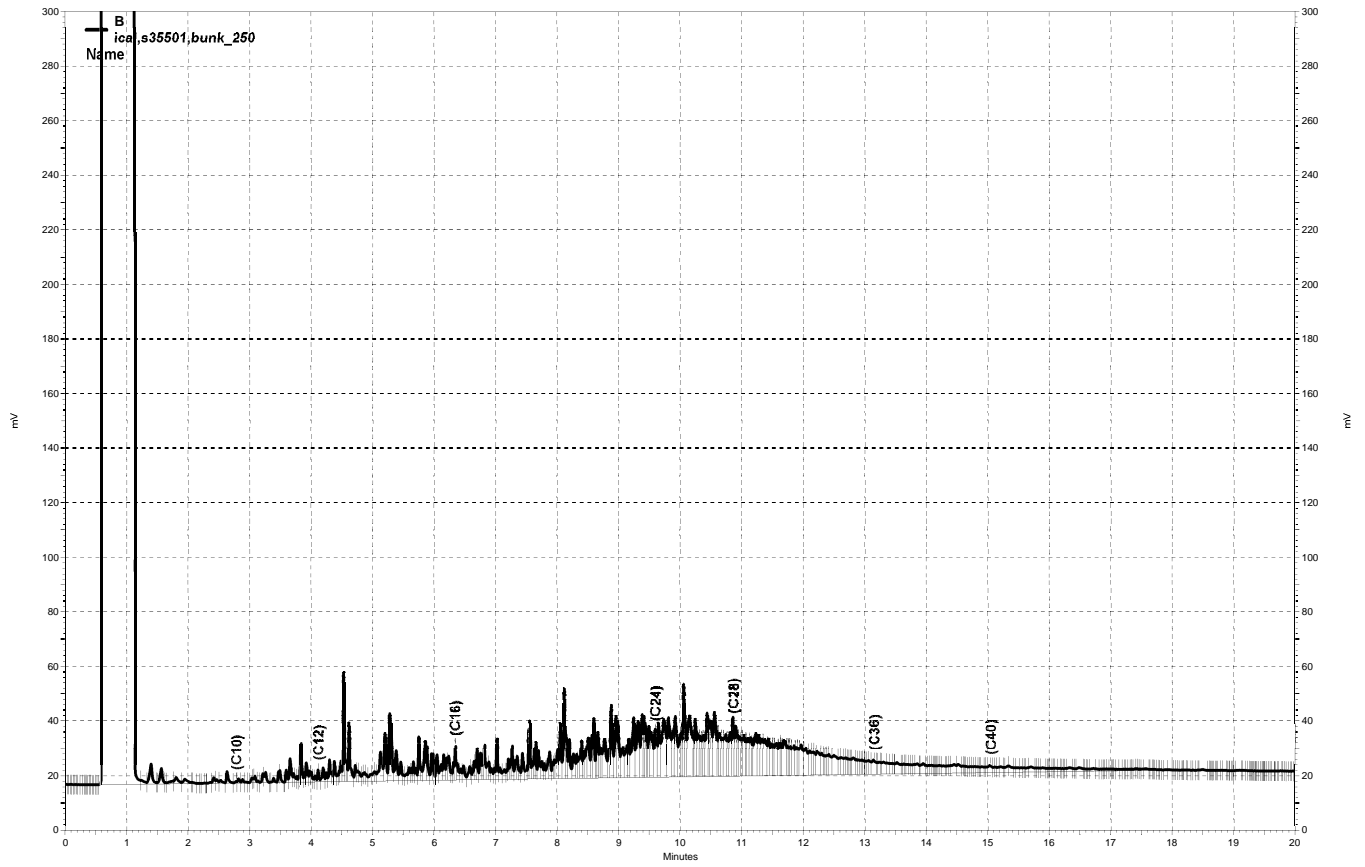
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\078b015_4407.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b016, B

Sample Name: ical,s35501,bunk_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
 Run Date: 3/19/2018 6:37:14 PM
 Analysis Date: 3/20/2018 10:29:02 AM
 Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	862607	0.000 CAL
DSL:10-22	1994447	0.000 CAL
DSL:10-24	2582995	0.000 CAL
DSL:10-28	3817493	0.000 CAL
DSL:12-24	2445886	0.000 CAL
DSL:12-28	3680384	0.000 CAL
DSL:16-24	1762978	0.000 CAL
MO:22-32	2740913	0.000 CAL
MO:24-36	2530749	0.000 CAL
MO:28-40	1681770	0.000 CAL
BUNKC:10-40	5352098	250.000 CAL
BUNKC:12-40	5214989	250.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

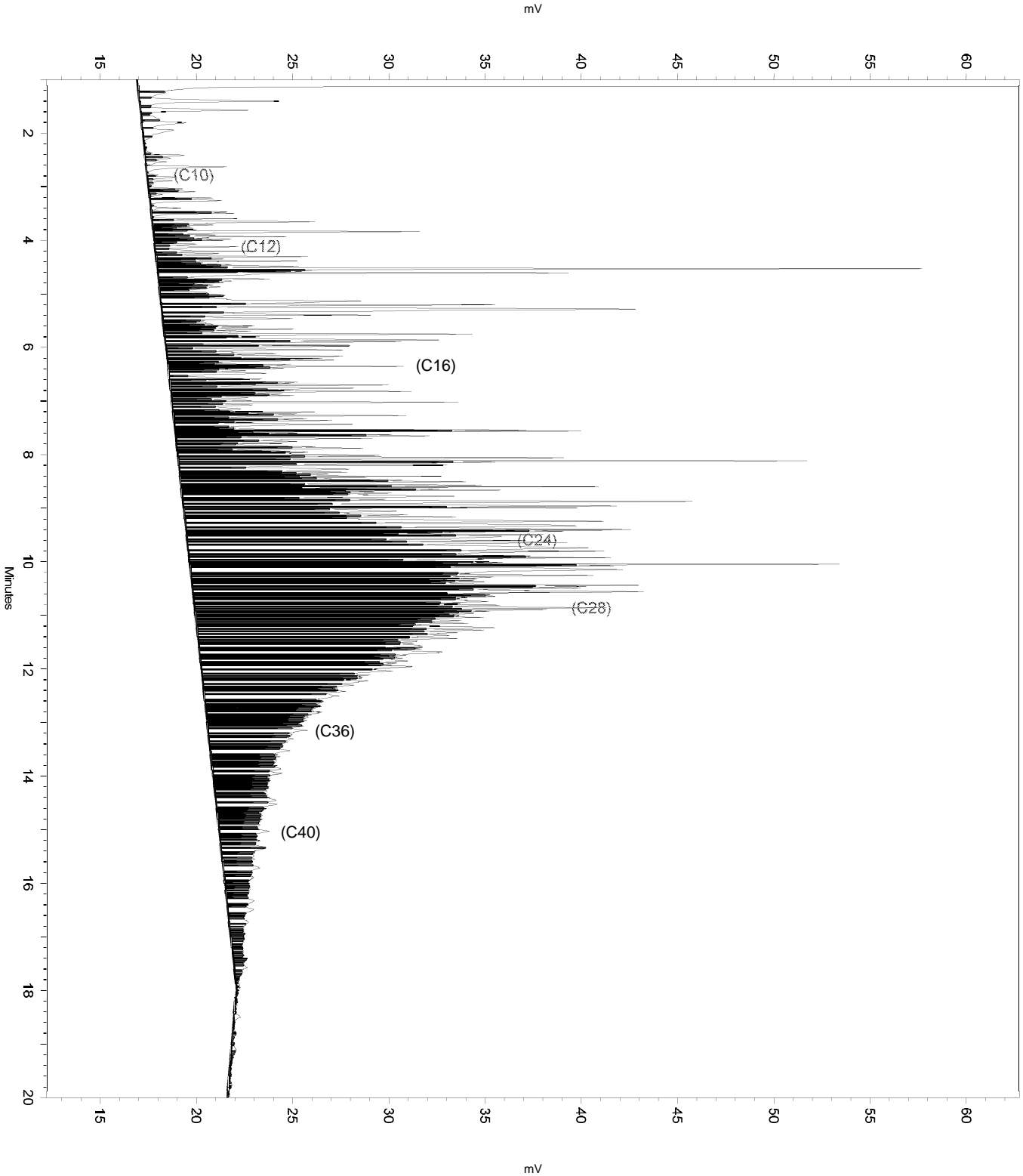
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold           0          0     10
Yes Force Peak Stop    2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b016
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop       17.135    18.024    0
  
```

Sample Name: ical,s35501,bunk_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b016
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
Run Date: 3/19/2018 6:37:14 PM
Analysis Date: 3/20/2018 10:29:02 AM
Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s35501,bunk_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
 Run Date: 3/19/2018 6:37:14 PM
 Analysis Date: 3/20/2018 10:20:26 AM
 Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	851983	0.000 CAL
DSL:10-22	1959008	0.000 CAL
DSL:10-24	2538136	0.000 CAL
DSL:10-28	3753033	0.000 CAL
DSL:12-24	2401619	0.000 CAL
DSL:12-28	3616516	0.000 CAL
DSL:16-24	1727783	0.000 CAL
MO:22-32	2689201	0.000 CAL
MO:24-36	2465473	0.000 CAL
MO:28-40	1589211	0.000 CAL
BUNKC:10-40	5197702	0.000 CAL
BUNKC:12-40	5061185	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

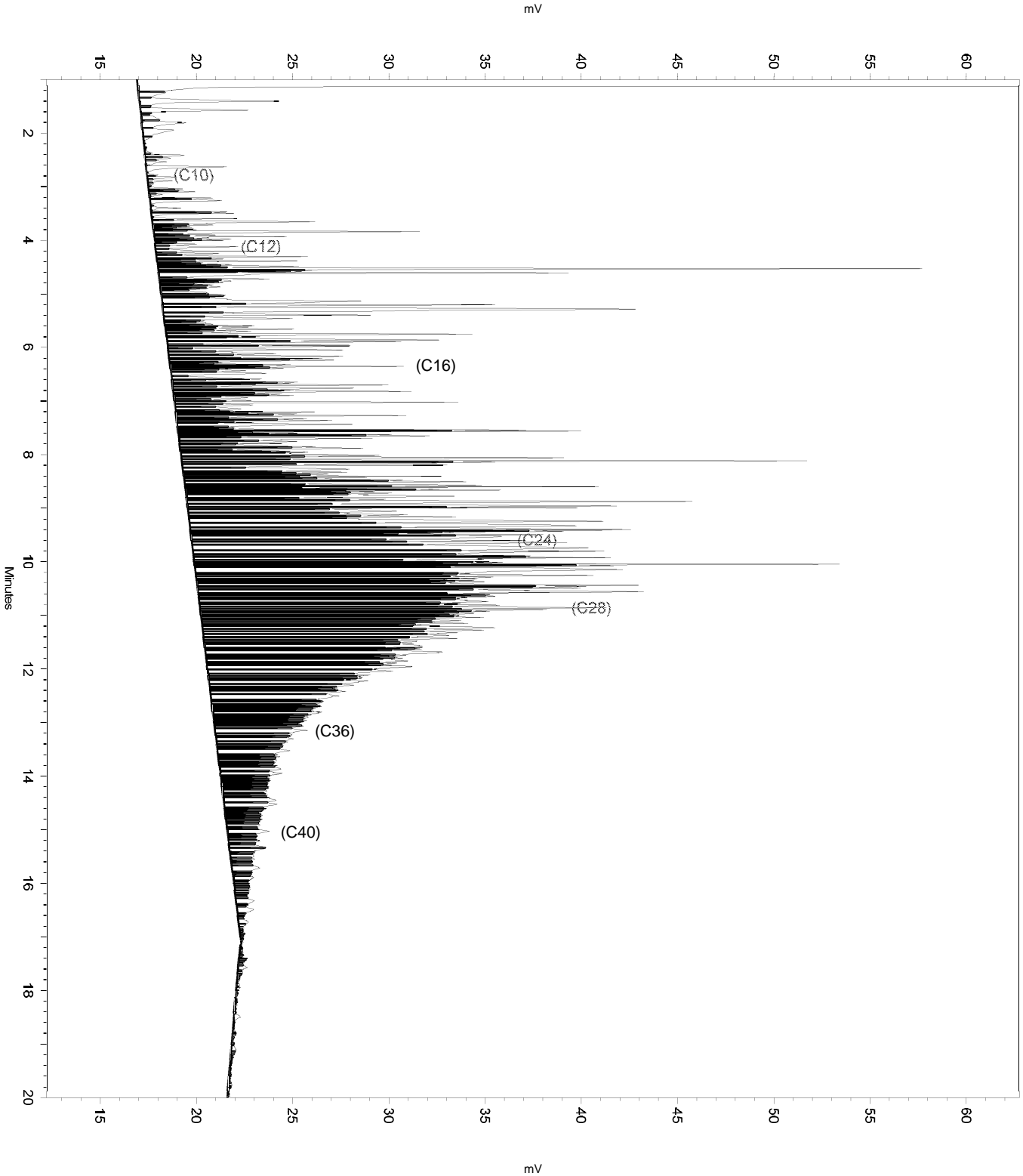
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold            0         0    10
Yes Force Peak Stop     2.27      0     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b016
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

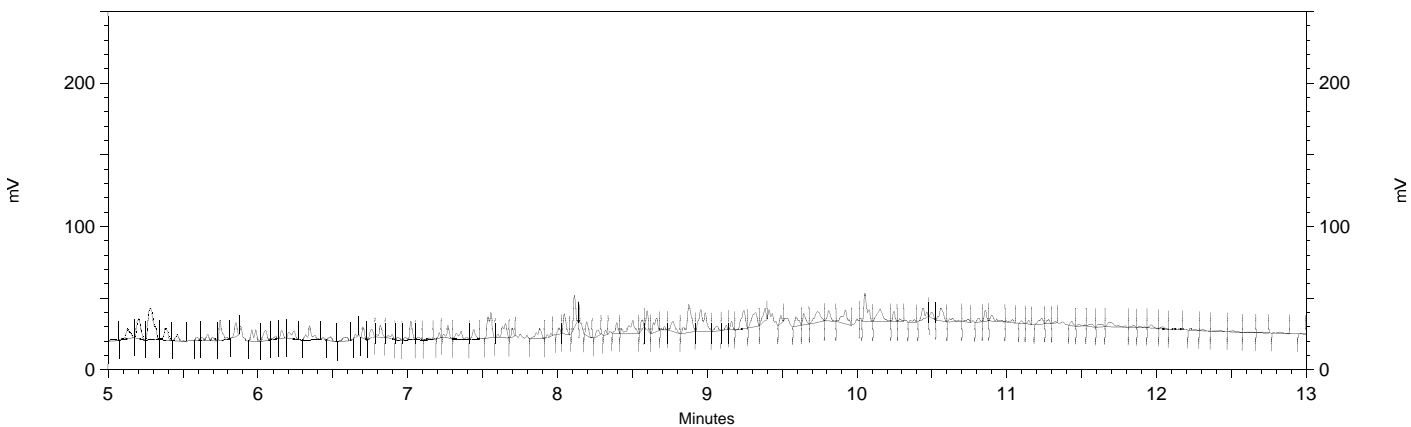
Sample Name: ical,s35501,bunk_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b016
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
Run Date: 3/19/2018 6:37:14 PM
Analysis Date: 3/20/2018 10:20:26 AM
Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s35501,bunk_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr078.met
 Run Date: 3/19/2018 6:37:14 PM
 Analysis Date: 3/19/2018 6:57:22 PM
 Instrument: GC14B Vial: 16 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.557	32889	0.692
Hexacosane	10.285	2296	0.055



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

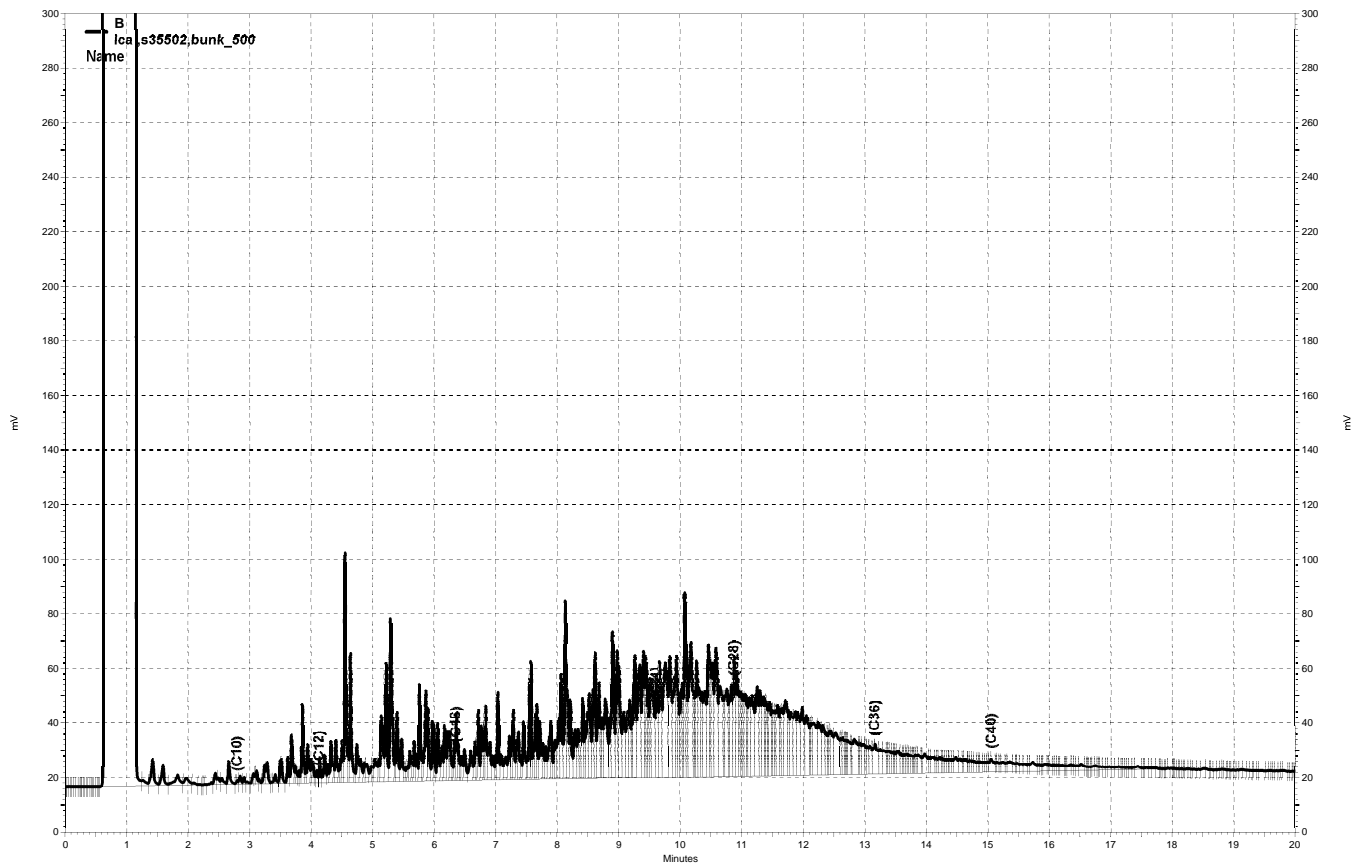
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\078b016_4408.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b017, B

Sample Name: ical,s35502,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
 Run Date: 3/19/2018 7:06:19 PM
 Analysis Date: 3/20/2018 10:29:09 AM
 Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1862875	0.000 CAL
DSL:10-22	4184119	0.000 CAL
DSL:10-24	5514455	0.000 CAL
DSL:10-28	8038215	0.000 CAL
DSL:12-24	5218738	0.000 CAL
DSL:12-28	7742498	0.000 CAL
DSL:16-24	3744404	0.000 CAL
MO:22-32	5654586	0.000 CAL
MO:24-36	5453392	0.000 CAL
MO:28-40	3561930	0.000 CAL
BUNKC:10-40	11281243	500.000 CAL
BUNKC:12-40	10985526	500.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

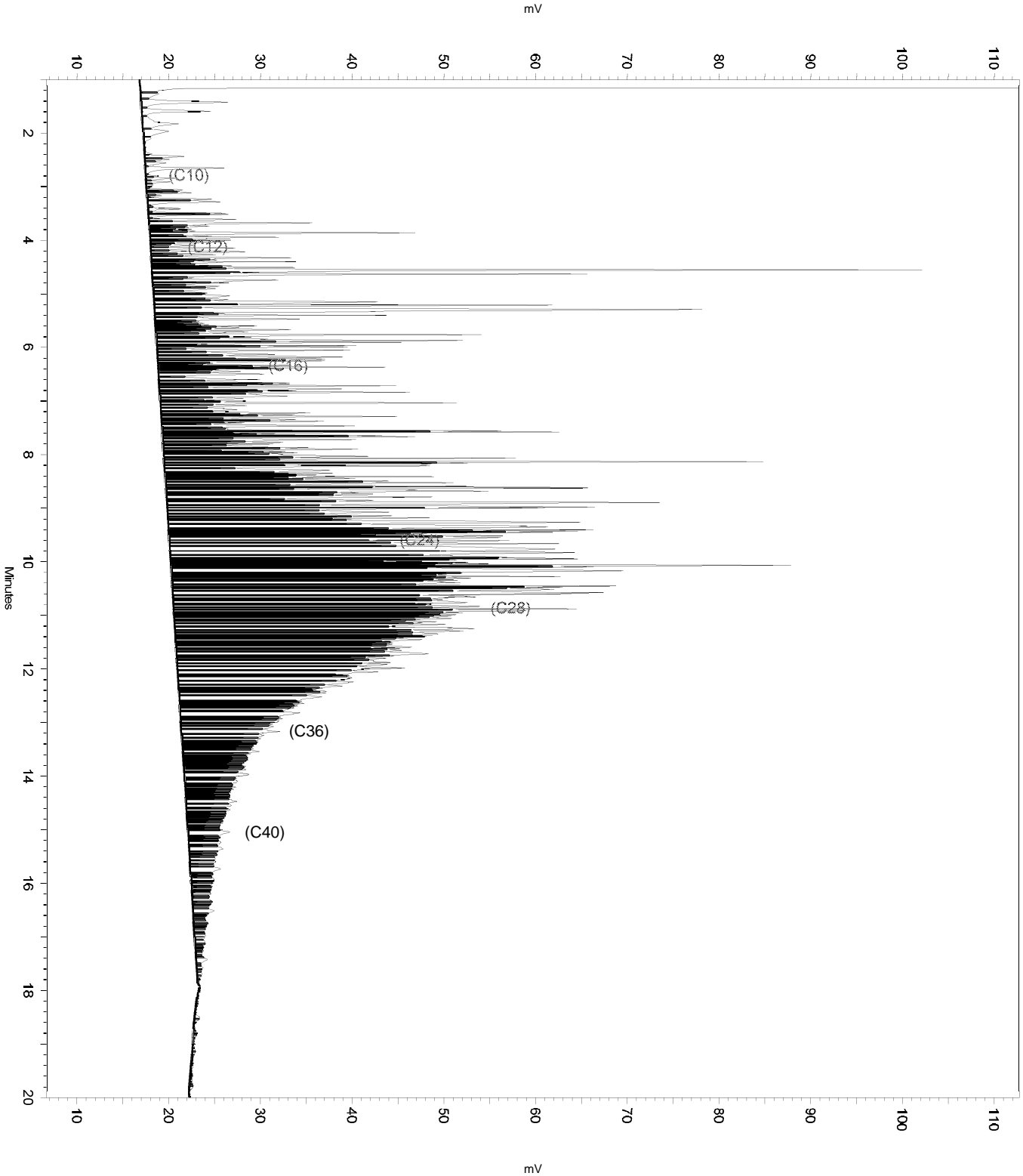
=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0     0
Yes Threshold            0       0    10
Yes Force Peak Stop     2.27    0     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b017
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Reset Baseline     17.932  0     0
  
```

Sample Name: ical,s35502,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b017
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
Run Date: 3/19/2018 7:06:19 PM
Analysis Date: 3/20/2018 10:29:09 AM
Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s35502,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
 Run Date: 3/19/2018 7:06:19 PM
 Analysis Date: 3/20/2018 10:21:44 AM
 Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1941965	0.000 CAL
DSL:10-22	4358493	0.000 CAL
DSL:10-24	5724437	0.000 CAL
DSL:10-28	8312630	0.000 CAL
DSL:12-24	5409072	0.000 CAL
DSL:12-28	7997265	0.000 CAL
DSL:16-24	3879780	0.000 CAL
MO:22-32	5822078	0.000 CAL
MO:24-36	5666189	0.000 CAL
MO:28-40	3847644	0.000 CAL
BUNKC:10-40	11832328	0.000 CAL
BUNKC:12-40	11516963	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

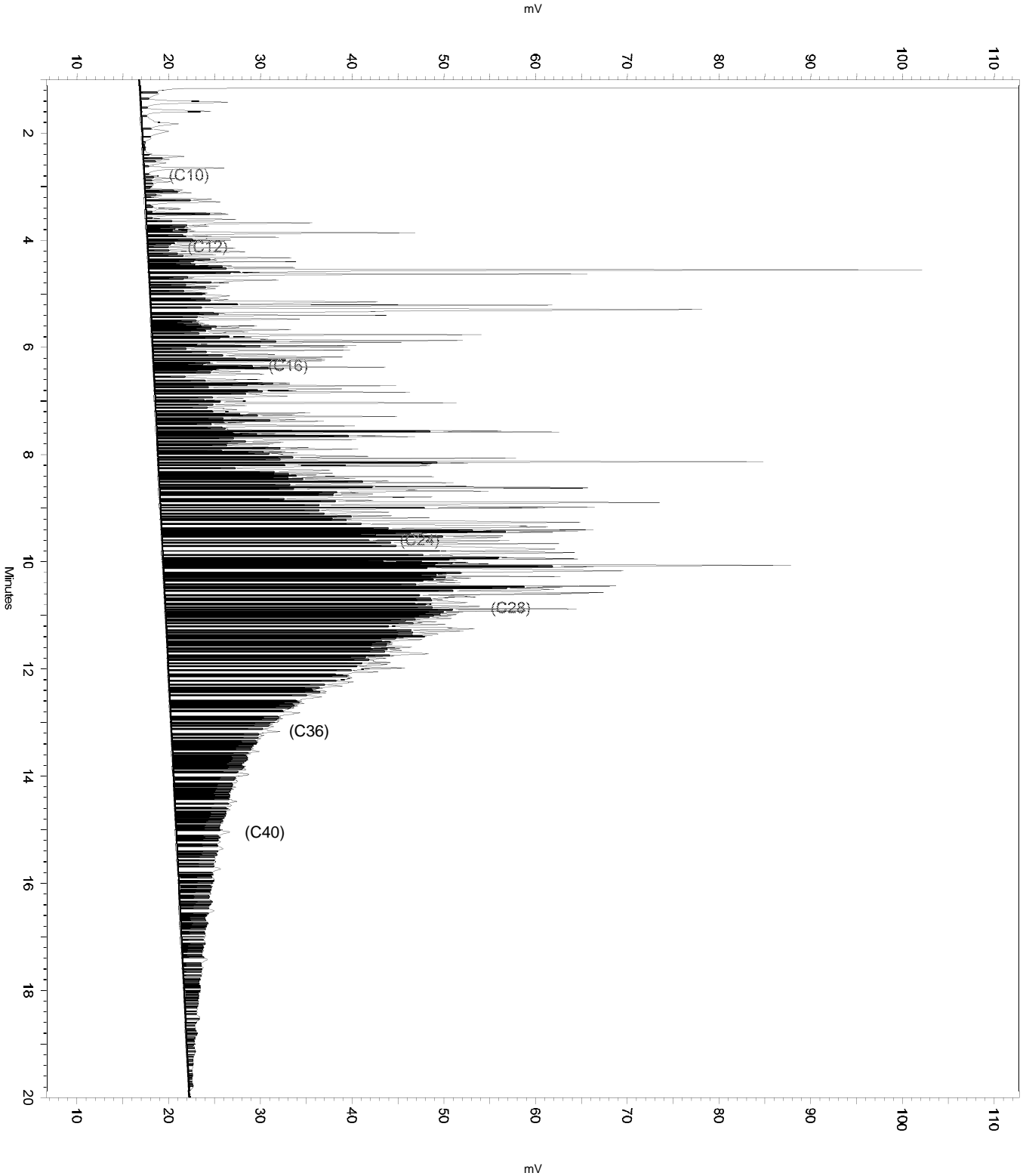
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b017
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

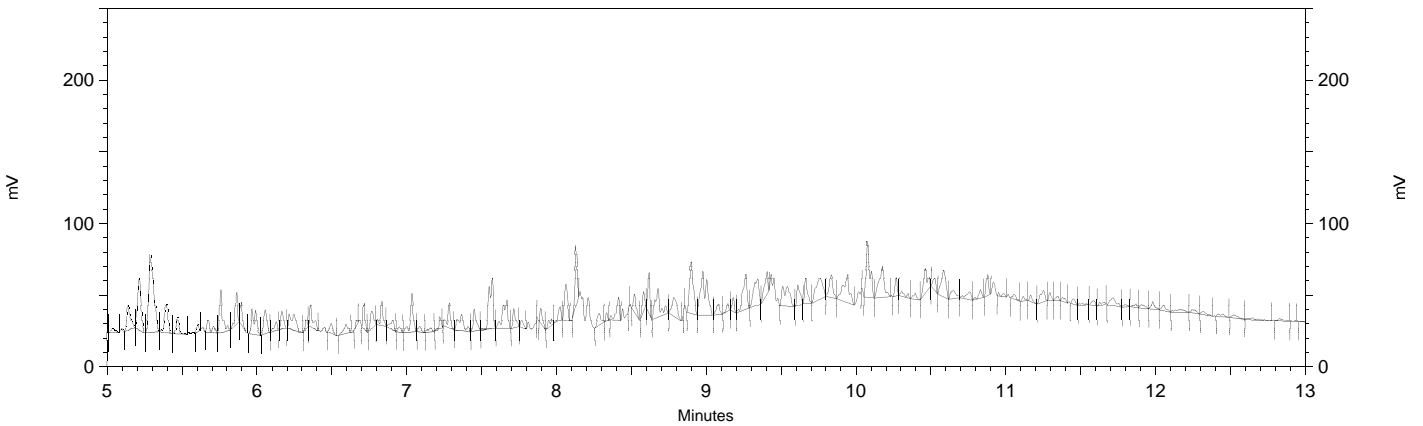
Sample Name: ical,s35502,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b017
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
Run Date: 3/19/2018 7:06:19 PM
Analysis Date: 3/20/2018 10:21:44 AM
Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s35502,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr078.met
 Run Date: 3/19/2018 7:06:19 PM
 Analysis Date: 3/19/2018 7:26:27 PM
 Instrument: GC14B Vial: 17 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.572	70092	1.476
Hexacosane	10.305	7869	0.189



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

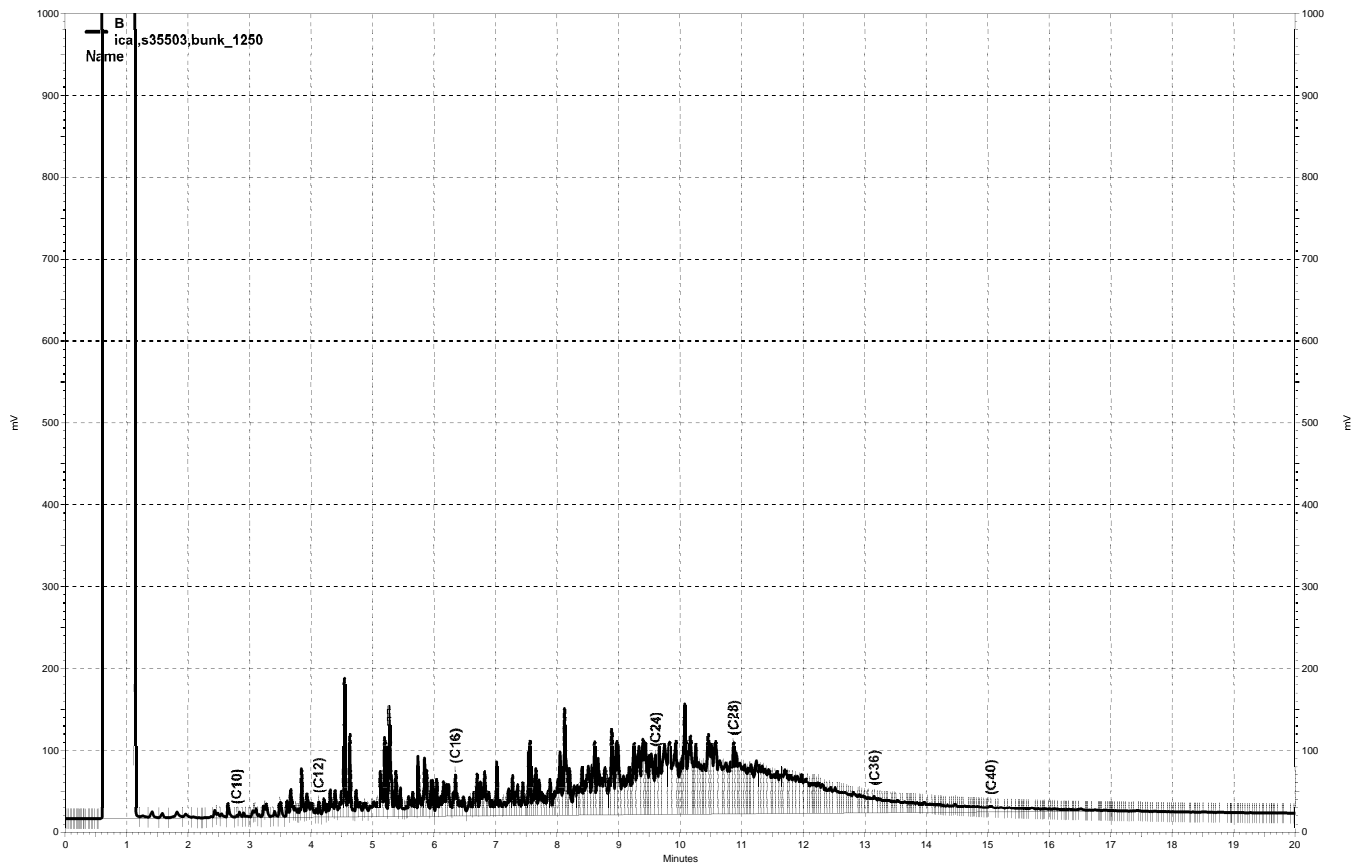
```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\078b017_4409.tmp
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b018, B

Sample Name: ical,s35503,bunk_1250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
 Run Date: 3/19/2018 7:35:27 PM
 Analysis Date: 3/20/2018 10:29:15 AM
 Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	3815771	0.000 CAL
DSL:10-22	8537252	0.000 CAL
DSL:10-24	11198333	0.000 CAL
DSL:10-28	16201525	0.000 CAL
DSL:12-24	10580944	0.000 CAL
DSL:12-28	15584136	0.000 CAL
DSL:16-24	7569107	0.000 CAL
MO:22-32	11372728	0.000 CAL
MO:24-36	10834747	0.000 CAL
MO:28-40	6828516	0.000 CAL
BUNKC:10-40	22510412	1250.000 CAL
BUNKC:12-40	21893020	1250.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

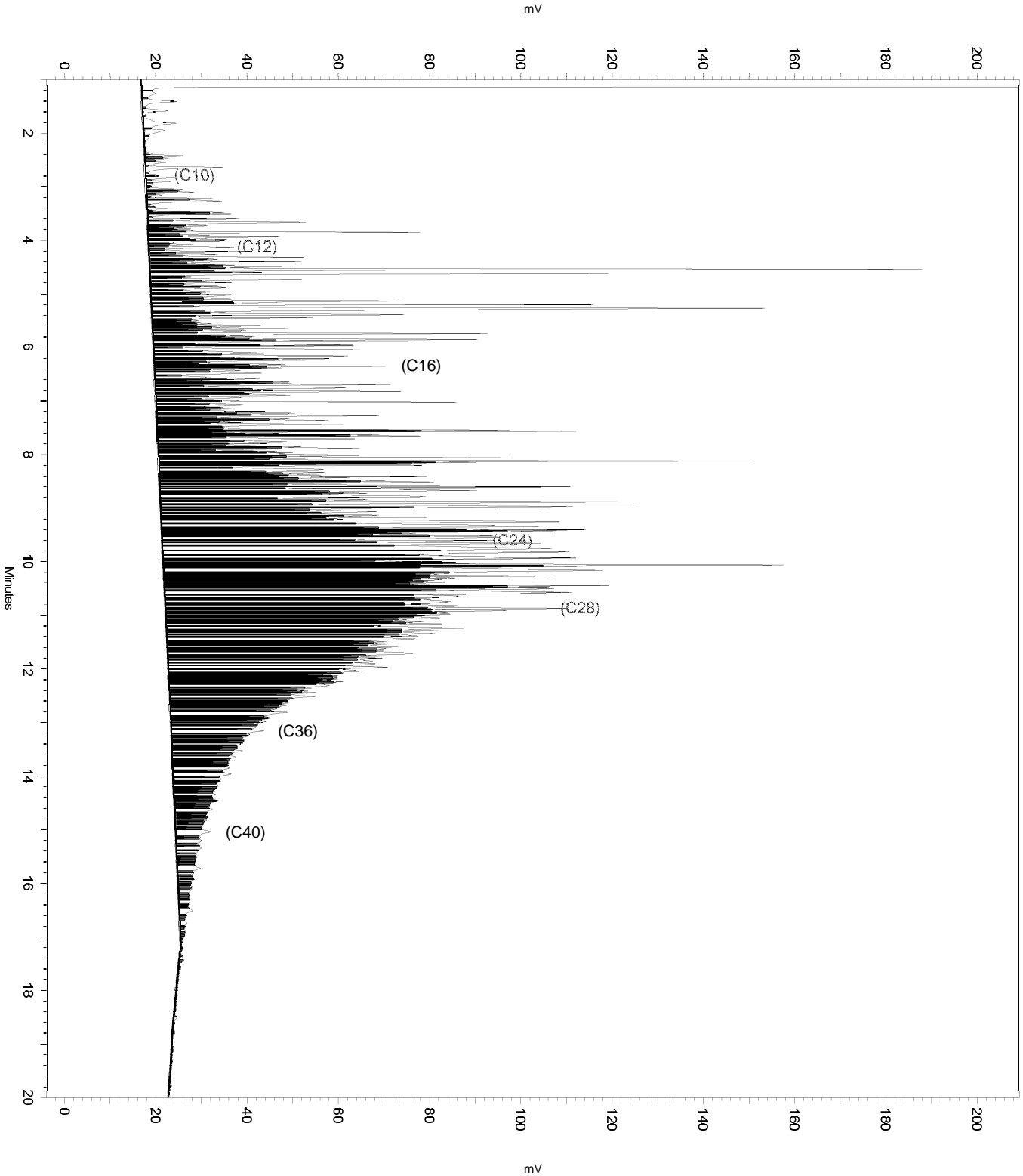
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0    0
Yes Threshold            0          0   10
Yes Force Peak Stop     2.27       0    0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b018
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Reset Baseline     17.241     0    0
  
```


Sample Name: ical,s35503,bunk_1250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b018
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
Run Date: 3/19/2018 7:35:27 PM
Analysis Date: 3/20/2018 10:29:15 AM
Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s35503,bunk_1250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
 Run Date: 3/19/2018 7:35:27 PM
 Analysis Date: 3/20/2018 10:22:16 AM
 Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	4010185	0.000 CAL
DSL:10-22	8967812	0.000 CAL
DSL:10-24	11717076	0.000 CAL
DSL:10-28	16879292	0.000 CAL
DSL:12-24	11050215	0.000 CAL
DSL:12-28	16212431	0.000 CAL
DSL:16-24	7904236	0.000 CAL
MO:22-32	11795132	0.000 CAL
MO:24-36	11366028	0.000 CAL
MO:28-40	7534080	0.000 CAL
BUNKC:10-40	23875886	0.000 CAL
BUNKC:12-40	23209026	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

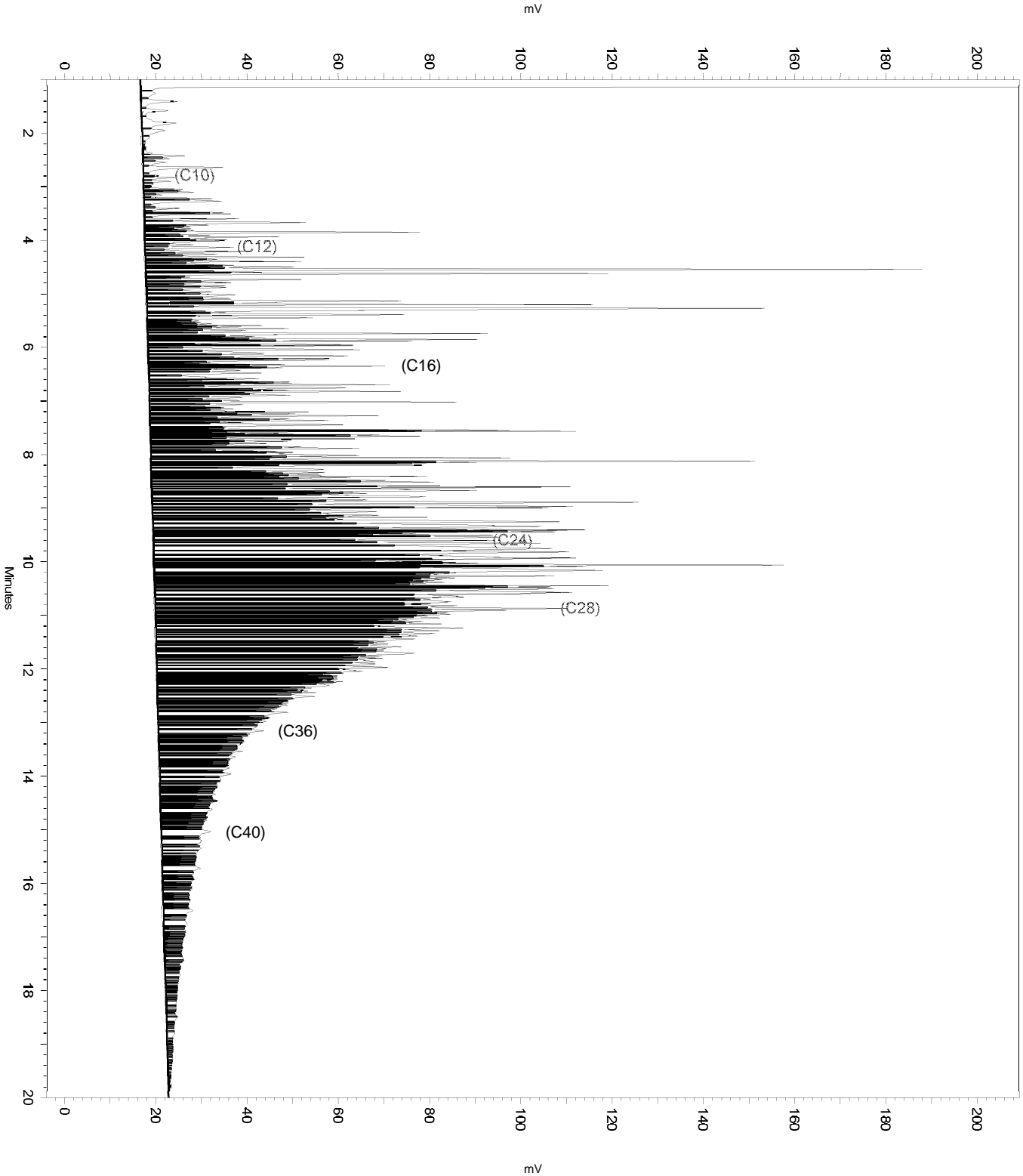
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold            0         0    10
Yes Force Peak Stop     2.27      0     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b018
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

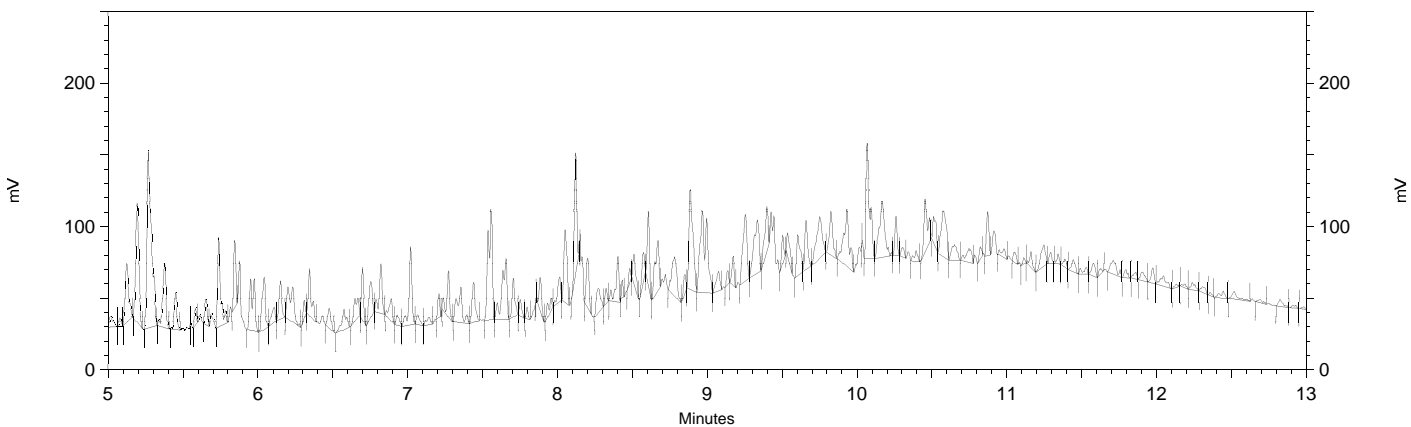
Sample Name: ical,s35503,bunk_1250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b018
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
Run Date: 3/19/2018 7:35:27 PM
Analysis Date: 3/20/2018 10:22:16 AM
Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s35503,bunk_1250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsur078.met
 Run Date: 3/19/2018 7:35:27 PM
 Analysis Date: 3/19/2018 7:55:35 PM
 Instrument: GC14B Vial: 18 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.558	141930	2.988
Hexacosane	10.300	9281	0.223



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

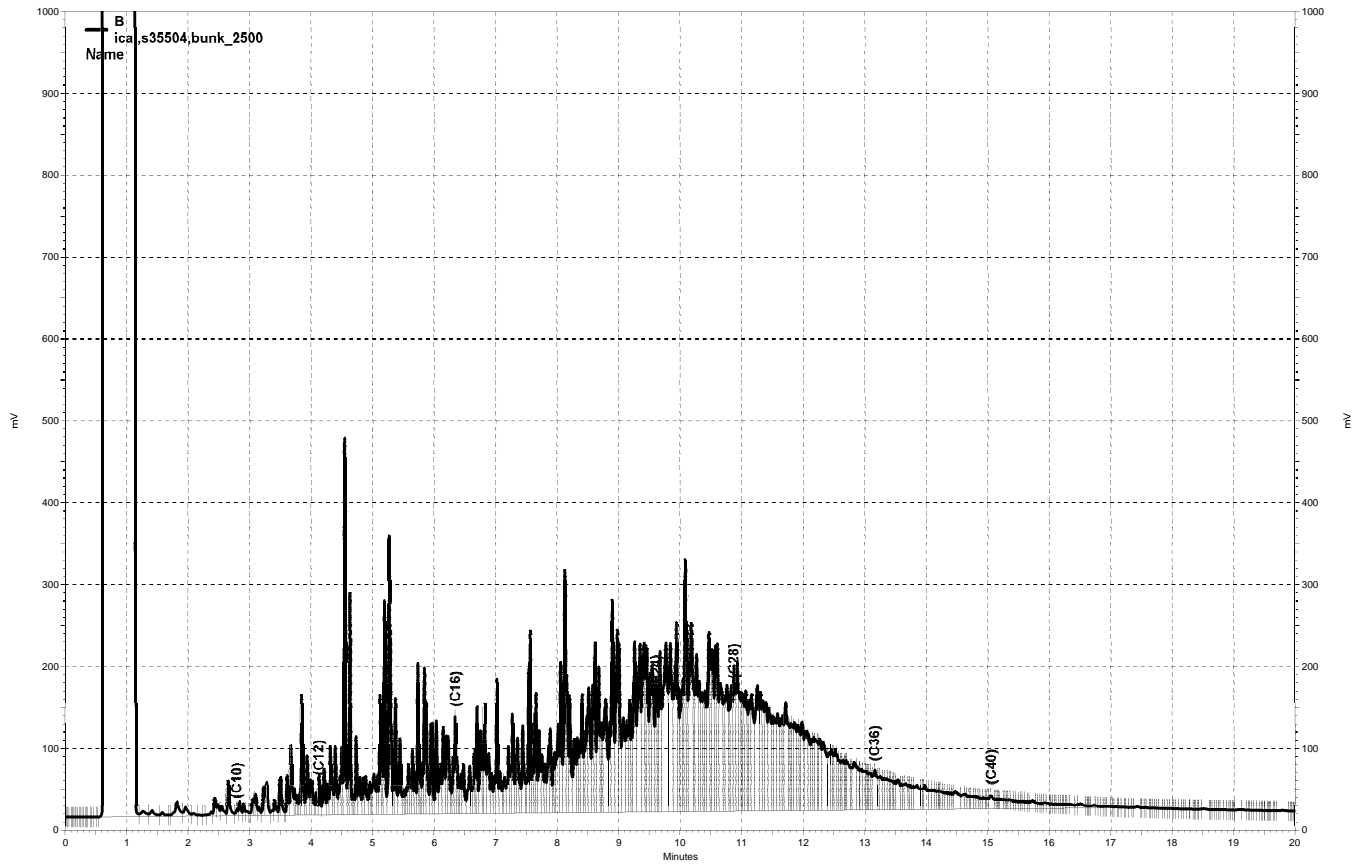
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\078b018_440A.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b019, B

Sample Name: ical,s35504,bunk_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
 Run Date: 3/19/2018 8:04:43 PM
 Analysis Date: 3/20/2018 10:29:21 AM
 Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	9562491	0.000 CAL
DSL:10-22	21347118	0.000 CAL
DSL:10-24	27774640	0.000 CAL
DSL:10-28	39814424	0.000 CAL
DSL:12-24	26198680	0.000 CAL
DSL:12-28	38238464	0.000 CAL
DSL:16-24	18680560	0.000 CAL
MO:22-32	26908454	0.000 CAL
MO:24-36	25763436	0.000 CAL
MO:28-40	16395144	0.000 CAL
BUNKC:10-40	54754384	2500.000 CAL
BUNKC:12-40	53178424	2500.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

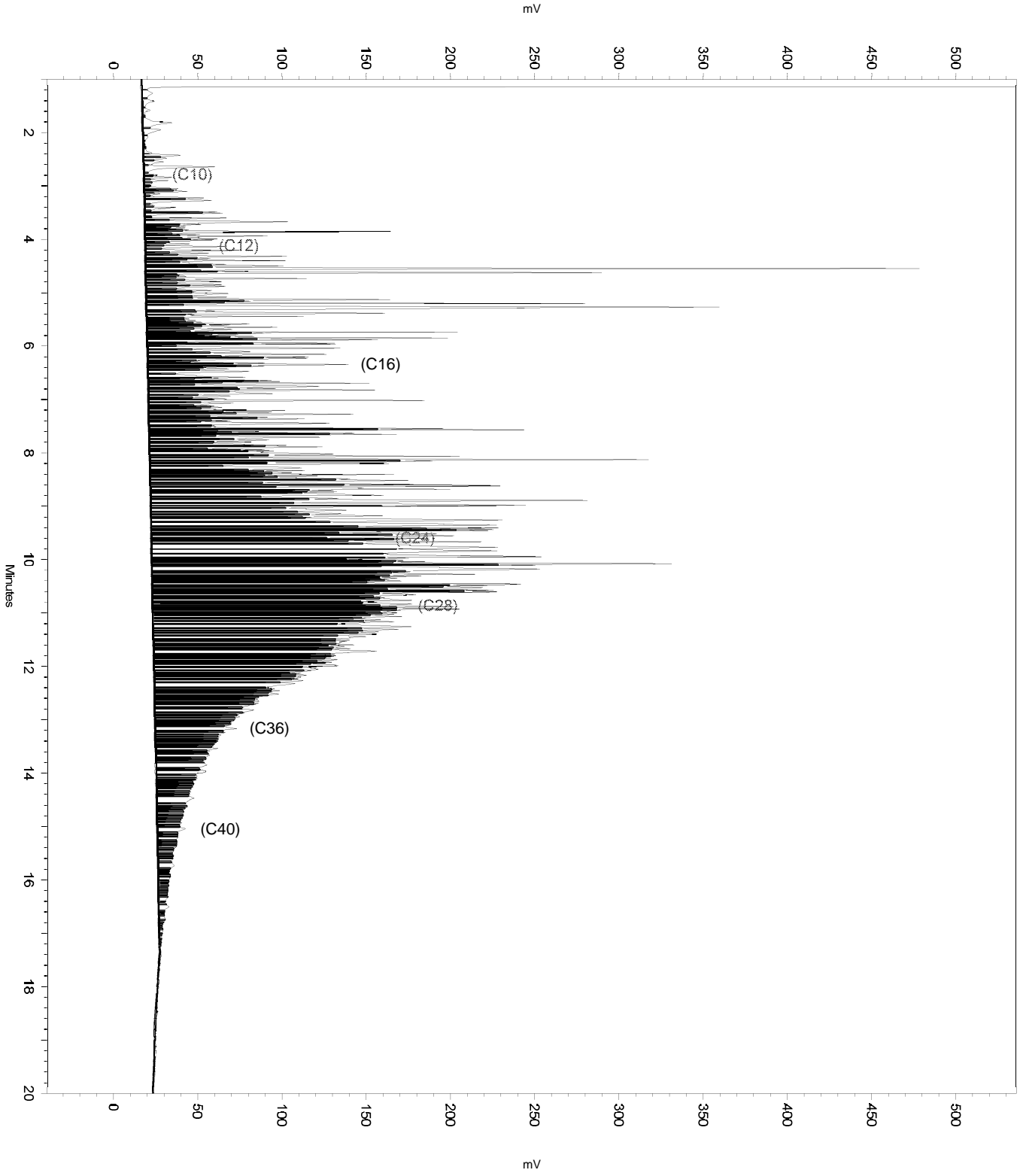
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b019
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Reset Baseline     17.332    0        0
  
```

Sample Name: ical,s35504,bunk_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b019
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
Run Date: 3/19/2018 8:04:43 PM
Analysis Date: 3/20/2018 10:29:21 AM
Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s35504,bunk_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
 Run Date: 3/19/2018 8:04:43 PM
 Analysis Date: 3/20/2018 10:22:52 AM
 Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	9681280	0.000 CAL
DSL:10-22	21610866	0.000 CAL
DSL:10-24	28092120	0.000 CAL
DSL:10-28	40230060	0.000 CAL
DSL:12-24	26486380	0.000 CAL
DSL:12-28	38624316	0.000 CAL
DSL:16-24	18885932	0.000 CAL
MO:22-32	27161004	0.000 CAL
MO:24-36	26085610	0.000 CAL
MO:28-40	16828616	0.000 CAL
BUNKC:10-40	55590212	0.000 CAL
BUNKC:12-40	53984468	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

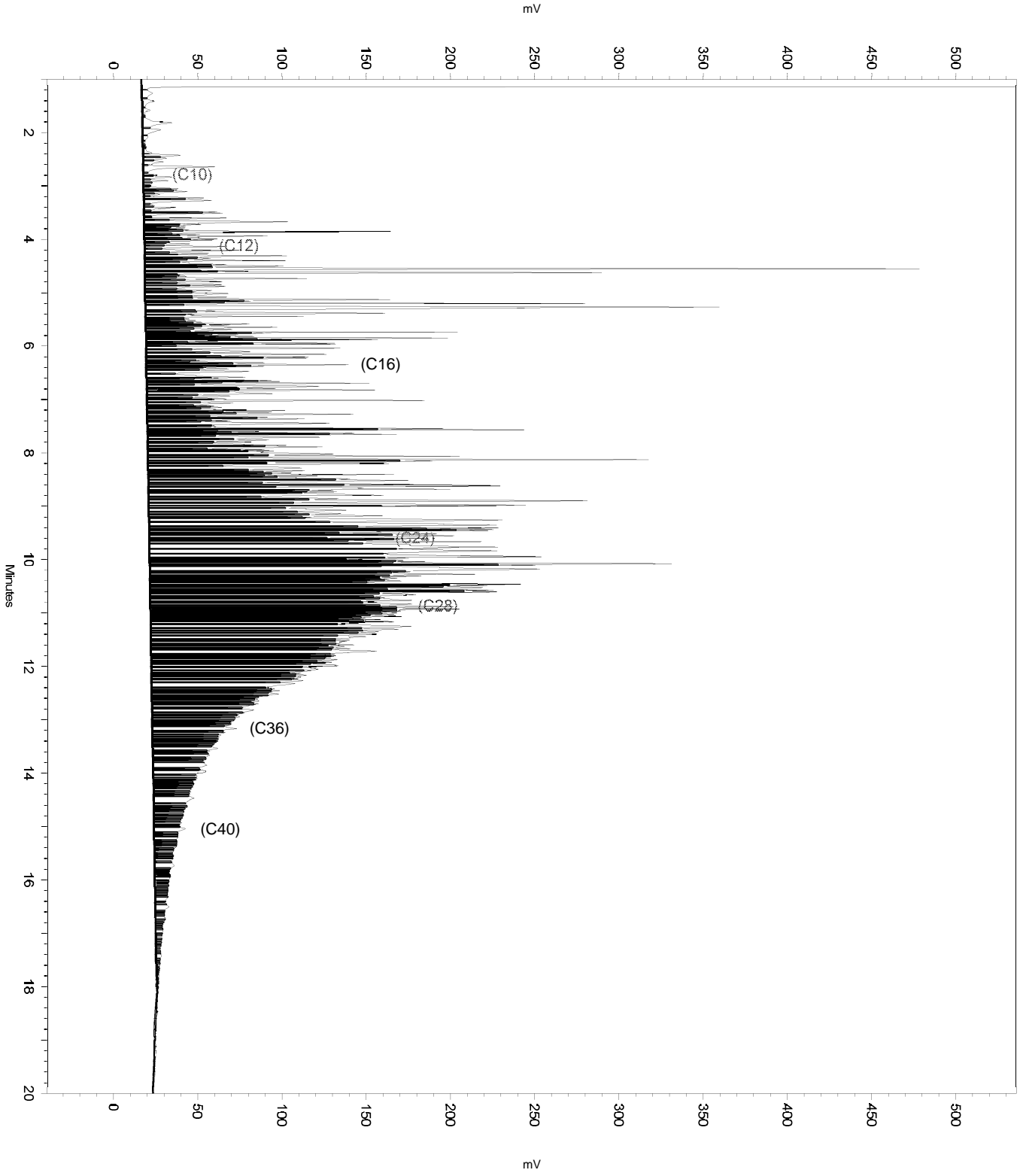
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b019
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

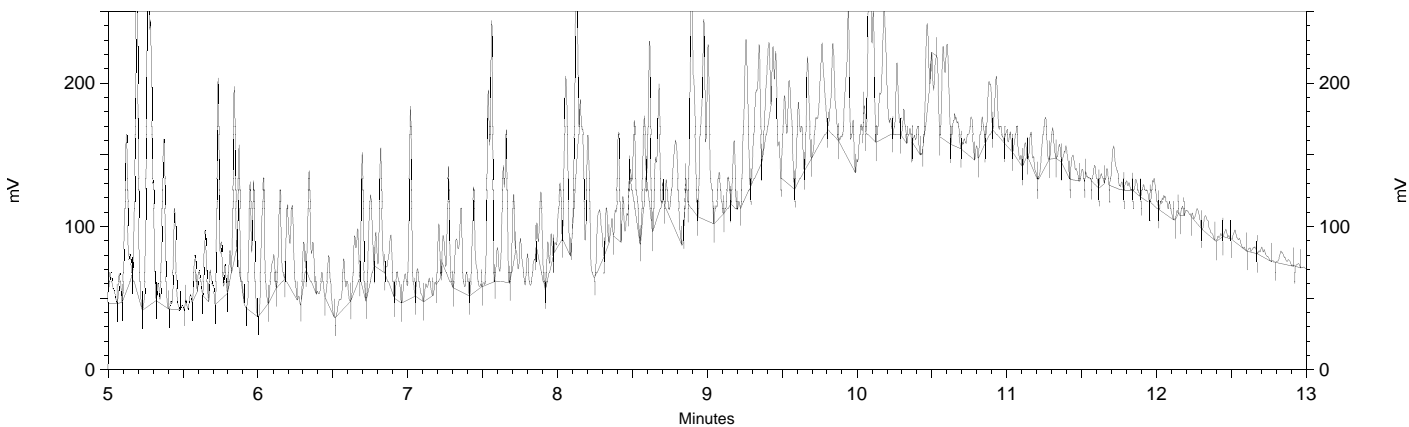

Sample Name: ical,s35504,bunk_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b019
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
Run Date: 3/19/2018 8:04:43 PM
Analysis Date: 3/20/2018 10:22:52 AM
Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s35504,bunk_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr078.met
 Run Date: 3/19/2018 8:04:43 PM
 Analysis Date: 3/19/2018 8:24:52 PM
 Instrument: GC14B Vial: 19 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.562	338954	7.137
Hexacosane	10.310	23461	0.563



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

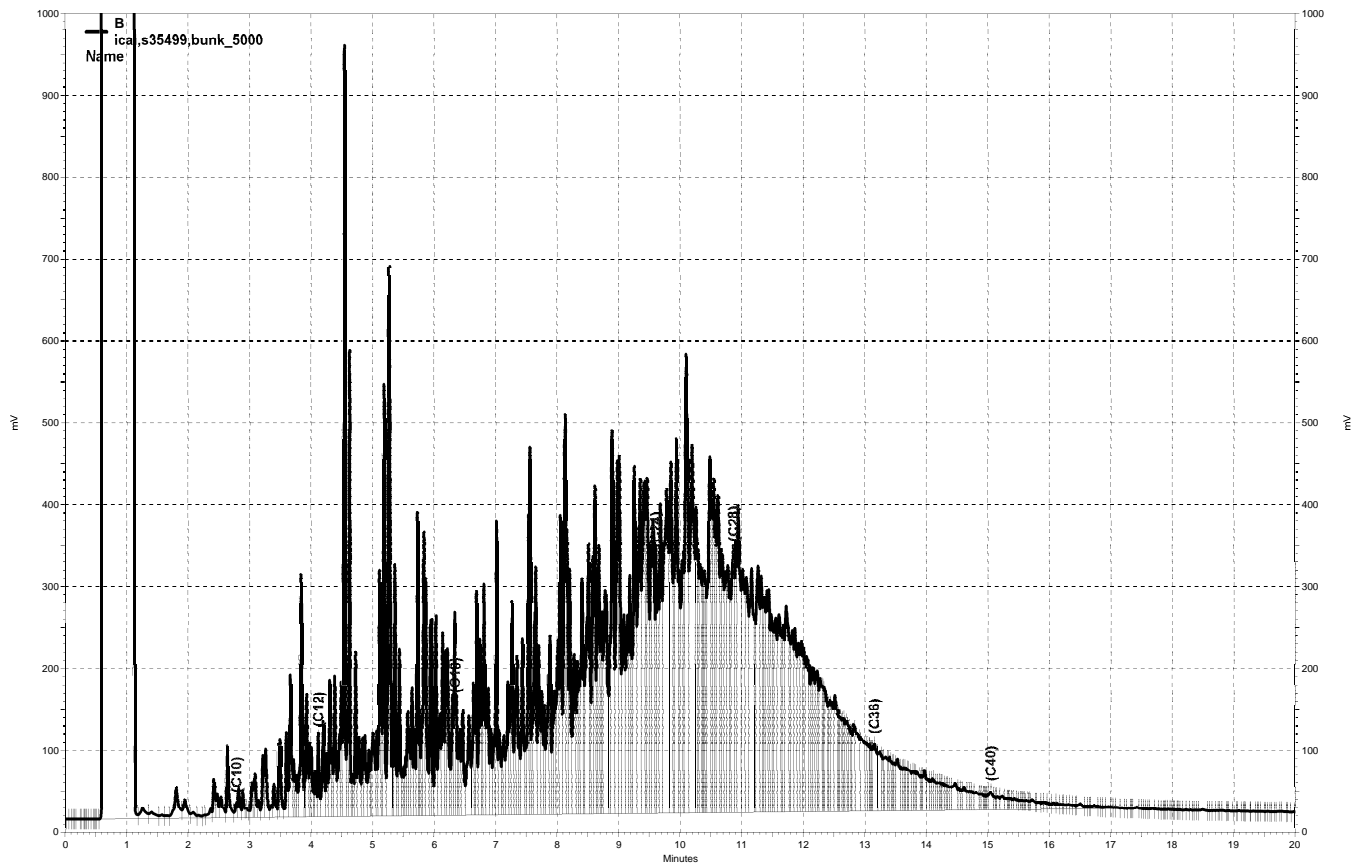
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\078b019_440B.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b020, B

Sample Name: ical,s35499,bunk_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
 Run Date: 3/19/2018 8:34:02 PM
 Analysis Date: 3/20/2018 10:29:28 AM
 Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	20404278	0.000 CAL
DSL:10-22	45180800	0.000 CAL
DSL:10-24	57662660	0.000 CAL
DSL:10-28	82464008	0.000 CAL
DSL:12-24	54269116	0.000 CAL
DSL:12-28	79070472	0.000 CAL
DSL:16-24	38365628	0.000 CAL
MO:22-32	55139912	0.000 CAL
MO:24-36	52254384	0.000 CAL
MO:28-40	31122920	0.000 CAL
BUNKC:10-40	111452832	5000.000 CAL
BUNKC:12-40	108059296	5000.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

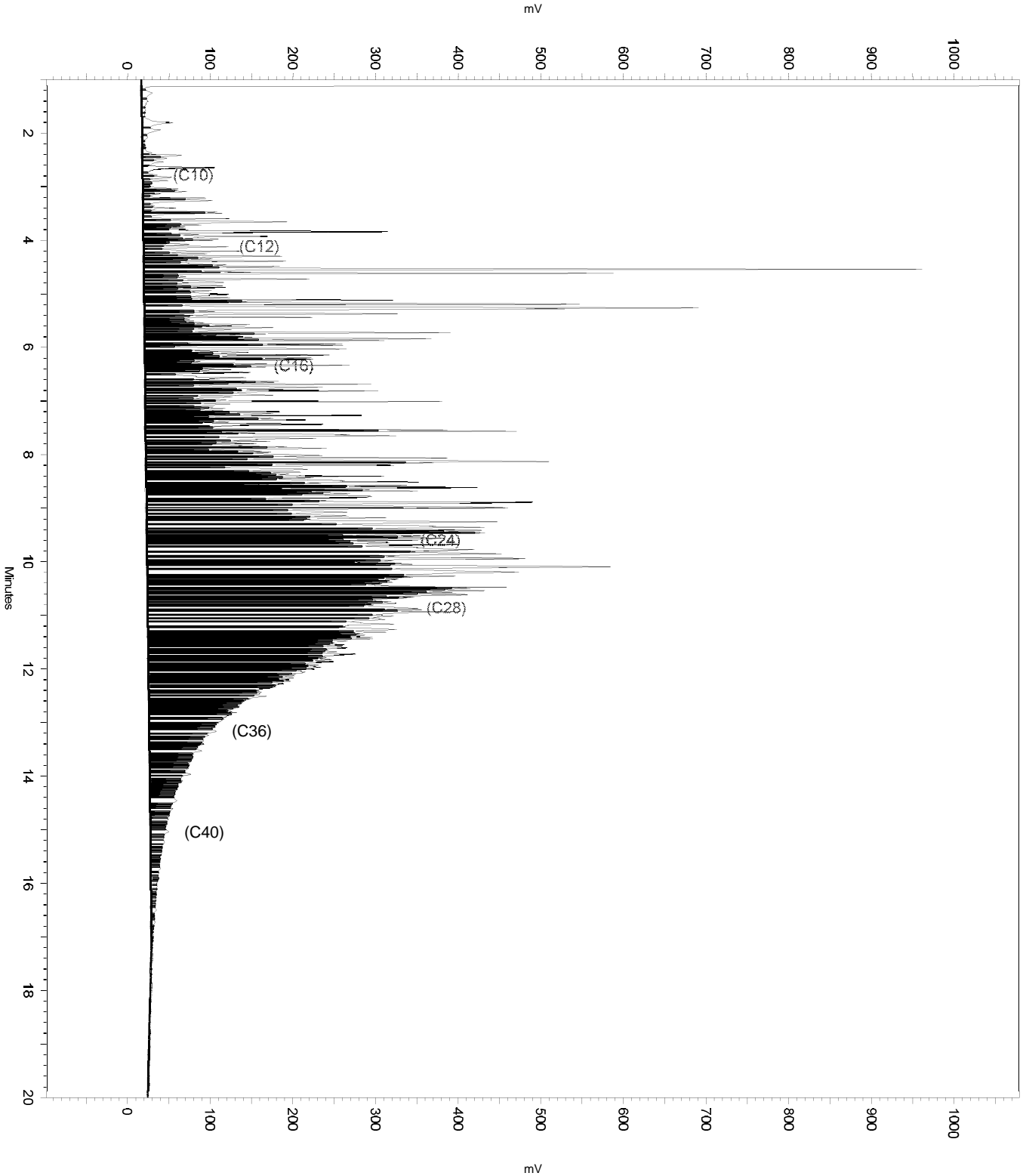
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b020
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Reset Baseline     17.264    0        0
  
```

Sample Name: ical,s35499,bunk_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b020
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
Run Date: 3/19/2018 8:34:02 PM
Analysis Date: 3/20/2018 10:29:28 AM
Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s35499,bunk_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
 Run Date: 3/19/2018 8:34:02 PM
 Analysis Date: 3/20/2018 10:23:26 AM
 Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	20699386	0.000 CAL
DSL:10-22	45830184	0.000 CAL
DSL:10-24	58436928	0.000 CAL
DSL:10-28	83482912	0.000 CAL
DSL:12-24	54969800	0.000 CAL
DSL:12-28	80015776	0.000 CAL
DSL:16-24	38863408	0.000 CAL
MO:22-32	55767512	0.000 CAL
MO:24-36	53052528	0.000 CAL
MO:28-40	32190452	0.000 CAL
BUNKC:10-40	113514728	0.000 CAL
BUNKC:12-40	110047592	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

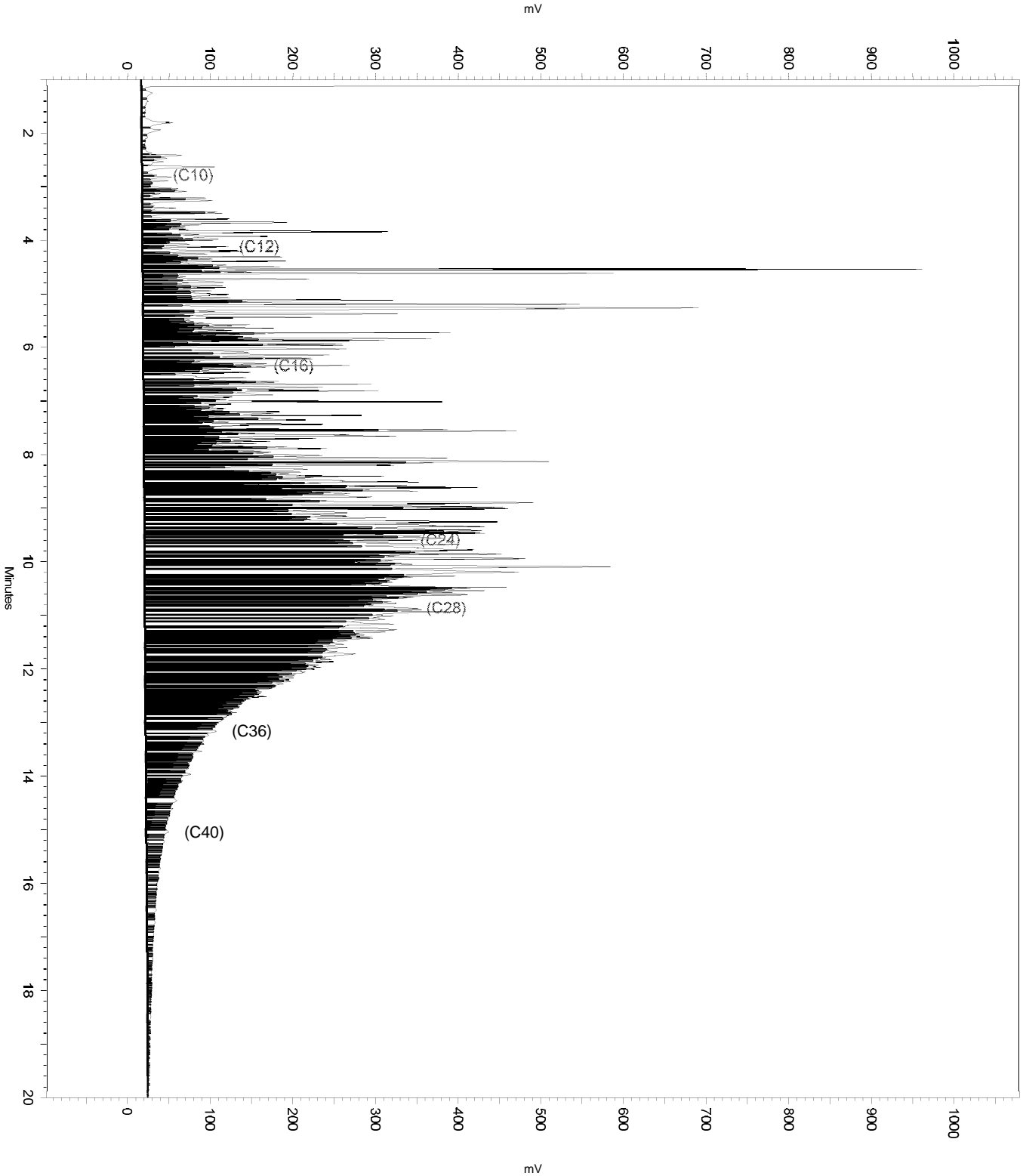
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop      2.27       0      0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b020
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

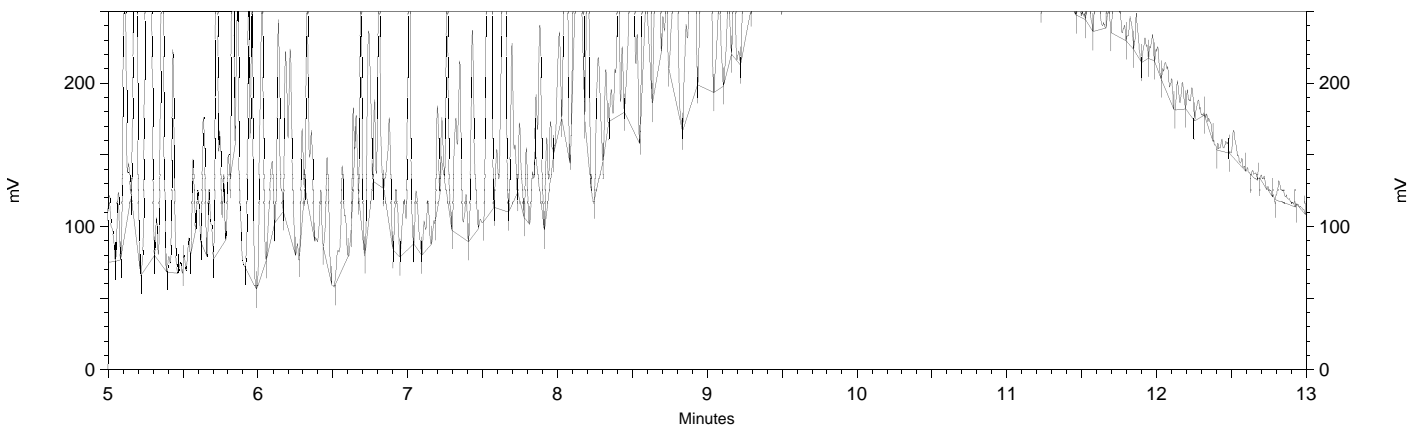
Sample Name: ical,s35499,bunk_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b020
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH078b.met
Run Date: 3/19/2018 8:34:02 PM
Analysis Date: 3/20/2018 10:23:26 AM
Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s35499,bunk_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\078b020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\078.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr078.met
 Run Date: 3/19/2018 8:34:02 PM
 Analysis Date: 3/19/2018 8:54:12 PM
 Instrument: GC14B Vial: 20 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.558	696185	14.658
Hexacosane	10.323	18462	0.443



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\078b020_440C.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY INITIAL CALIBRATION FOR 301571 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

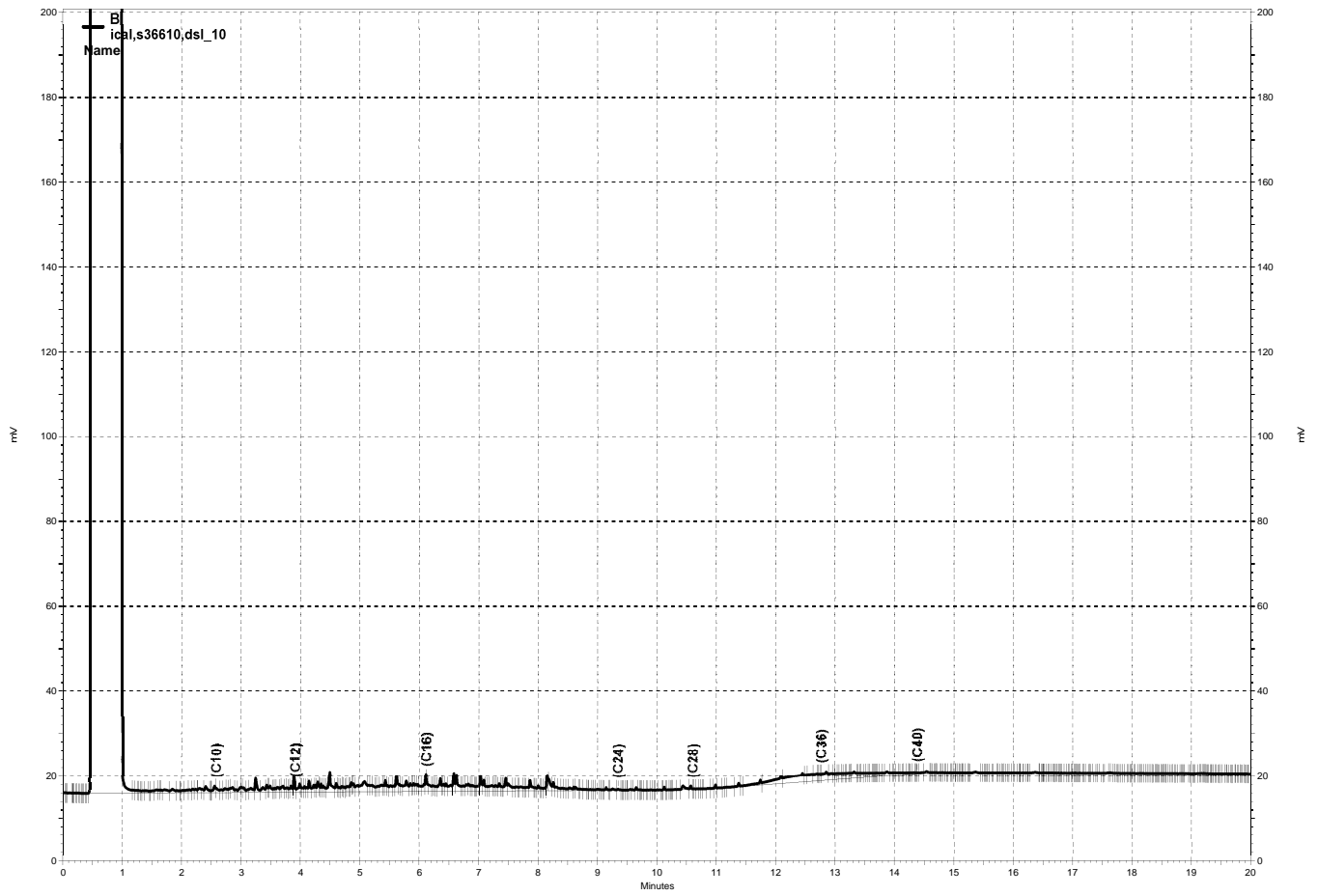
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065, B

Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 9:01:41 PM
 Analysis Date: 4/25/2018 8:35:38 AM
 Instrument: GC14B Vial: 65 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	270227	0.000 CAL
DSL:10-22	440685	10.000 CAL
DSL:10-24	448390	10.000 CAL
DSL:10-28	456528	10.000 CAL
DSL:12-24	378685	10.000 CAL
DSL:12-28	386823	10.000 CAL
DSL:16-24	195798	10.000 CAL
MO:22-32	29414	0.000 CAL
MO:24-36	98226	0.000 CAL
MO:28-40	193177	0.000 CAL
BUNKC:10-40	648378	0.000 CAL
BUNKC:12-40	578673	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

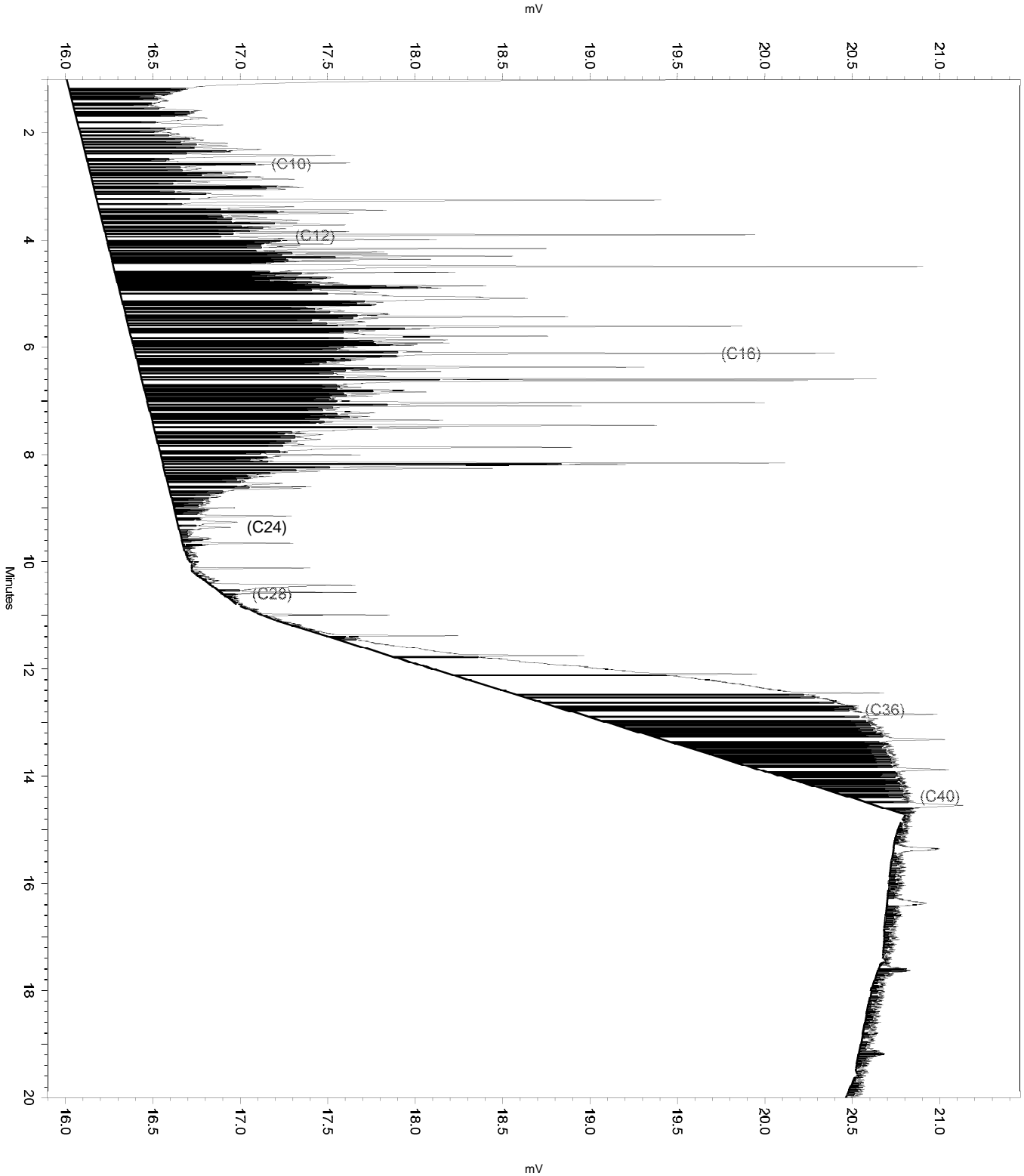
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        1.445     9.775    0
  
```

Sample Name: ical,s36610,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 9:01:41 PM
Analysis Date: 4/25/2018 8:35:38 AM
Instrument: GC14B Vial: 65 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 9:01:41 PM
 Analysis Date: 4/25/2018 8:30:41 AM
 Instrument: GC14B Vial: 65 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	198940	0.000 CAL
DSL:10-22	340579	10.000 CAL
DSL:10-24	344007	10.000 CAL
DSL:10-28	351455	10.000 CAL
DSL:12-24	303581	10.000 CAL
DSL:12-28	311029	10.000 CAL
DSL:16-24	160067	10.000 CAL
MO:22-32	23068	0.000 CAL
MO:24-36	97227	0.000 CAL
MO:28-40	193177	0.000 CAL
BUNKC:10-40	543305	0.000 CAL
BUNKC:12-40	502879	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

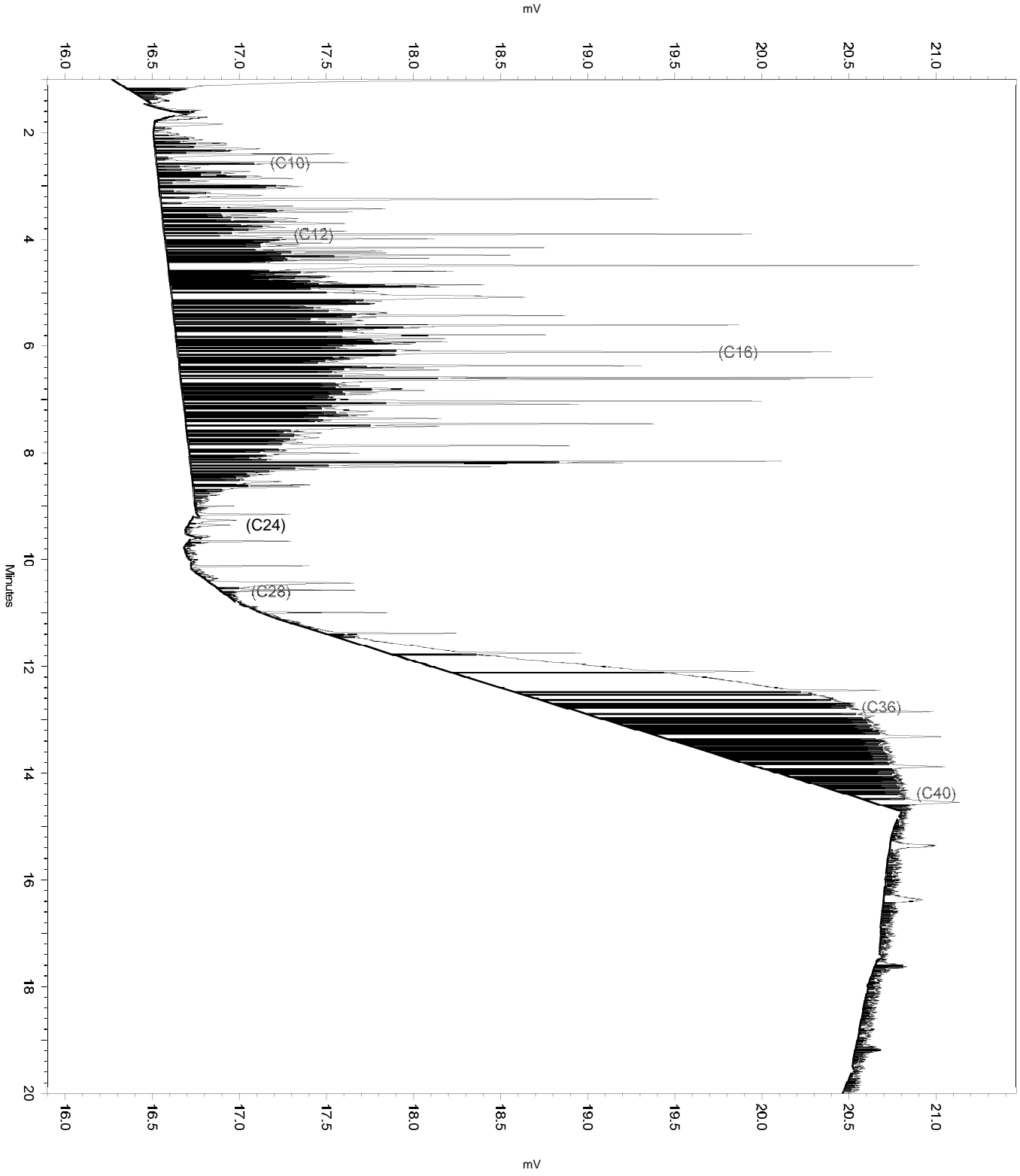
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

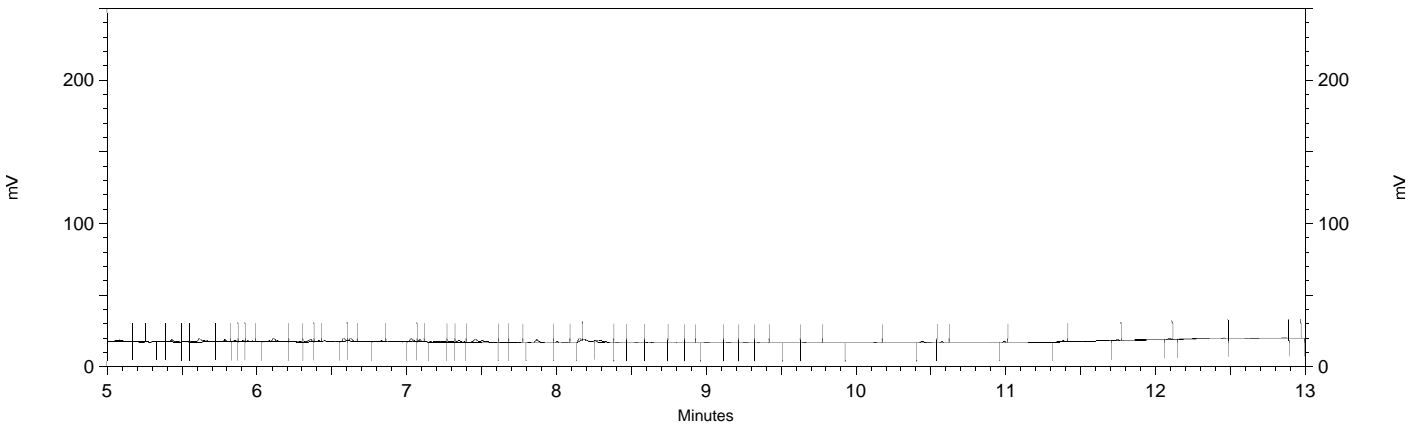
Sample Name: ical,s36610,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 9:01:41 PM
Analysis Date: 4/25/2018 8:30:41 AM
Instrument: GC14B Vial: 65 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 9:01:41 PM
 Analysis Date: 4/24/2018 9:21:51 PM
 Instrument: GC14B Vial: 65 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.285	452	0.010
Hexacosane			0.000 BDL



 < General Method Parameters >-----

No items selected for this section

 < B >-----

No items selected for this section

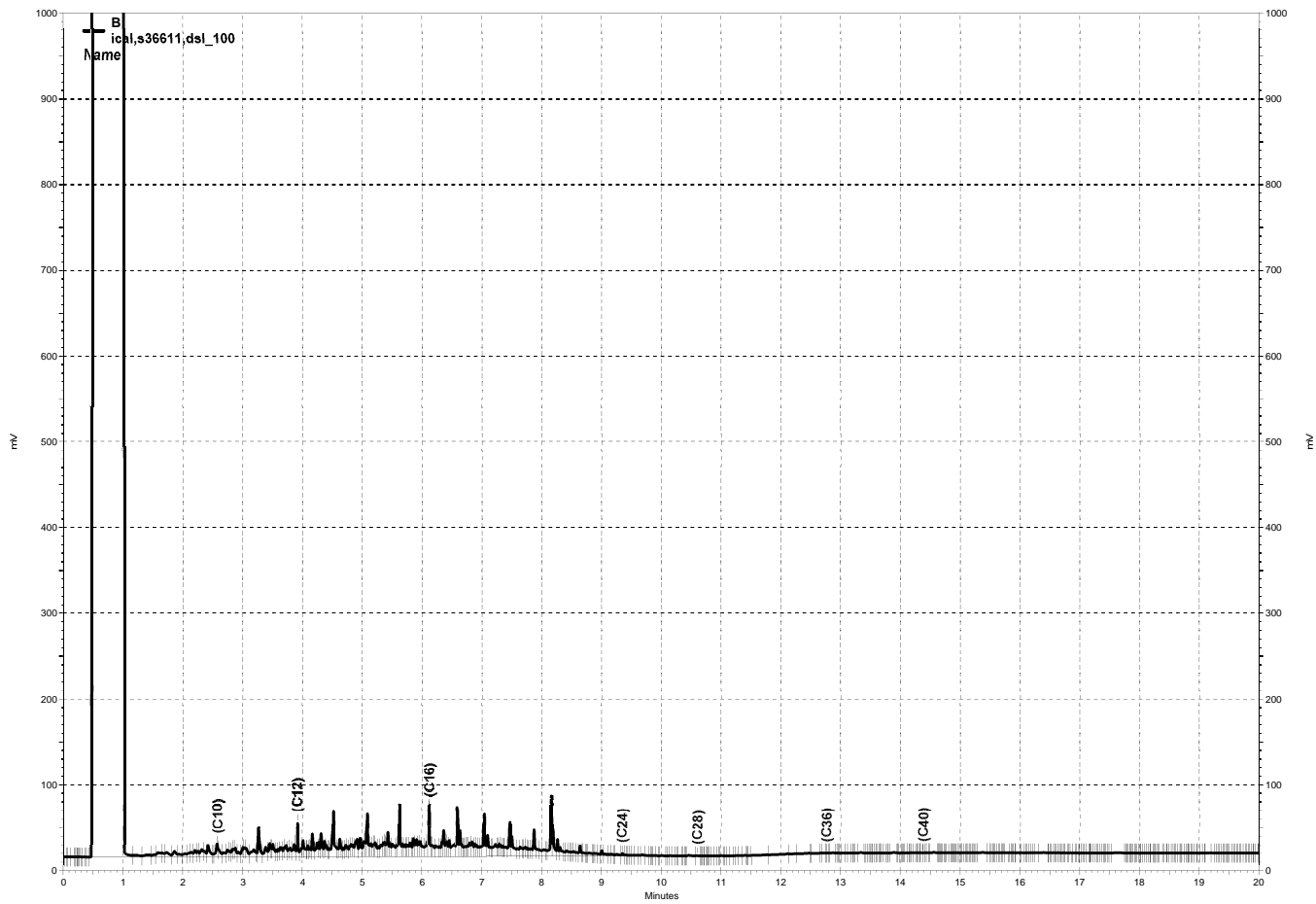
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b065_A6DB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b066, B

Sample Name: ical,s36611,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b066
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 9:29:37 PM
 Analysis Date: 4/25/2018 8:35:45 AM
 Instrument: GC14B Vial: 66 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2608056	0.000 CAL
DSL:10-22	4372380	100.000 CAL
DSL:10-24	4473107	100.000 CAL
DSL:10-28	4508527	100.000 CAL
DSL:12-24	3861945	100.000 CAL
DSL:12-28	3897365	100.000 CAL
DSL:16-24	2045249	100.000 CAL
MO:22-32	190459	0.000 CAL
MO:24-36	94851	0.000 CAL
MO:28-40	70076	0.000 CAL
BUNKC:10-40	4577544	0.000 CAL
BUNKC:12-40	3966382	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

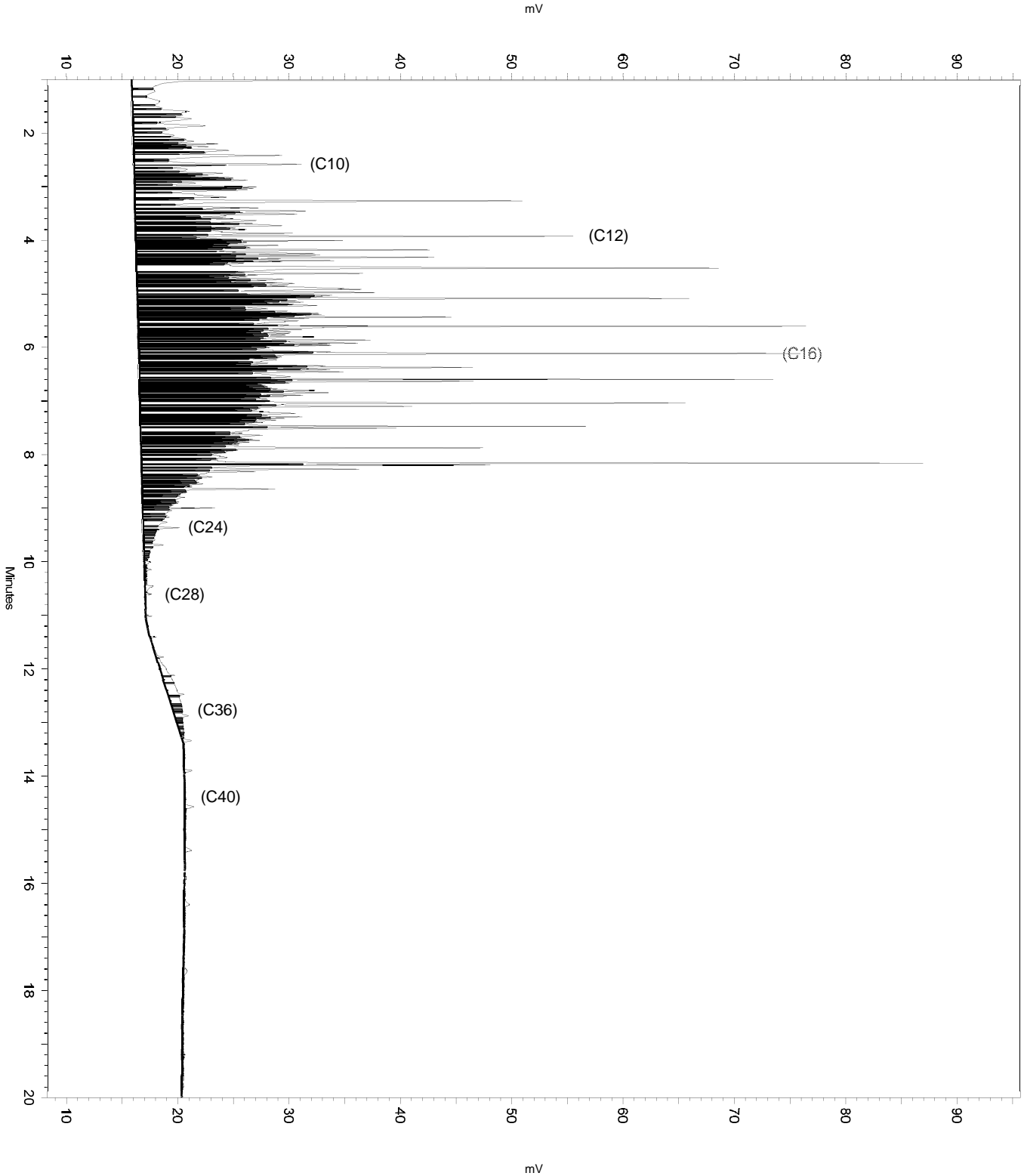
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b066
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

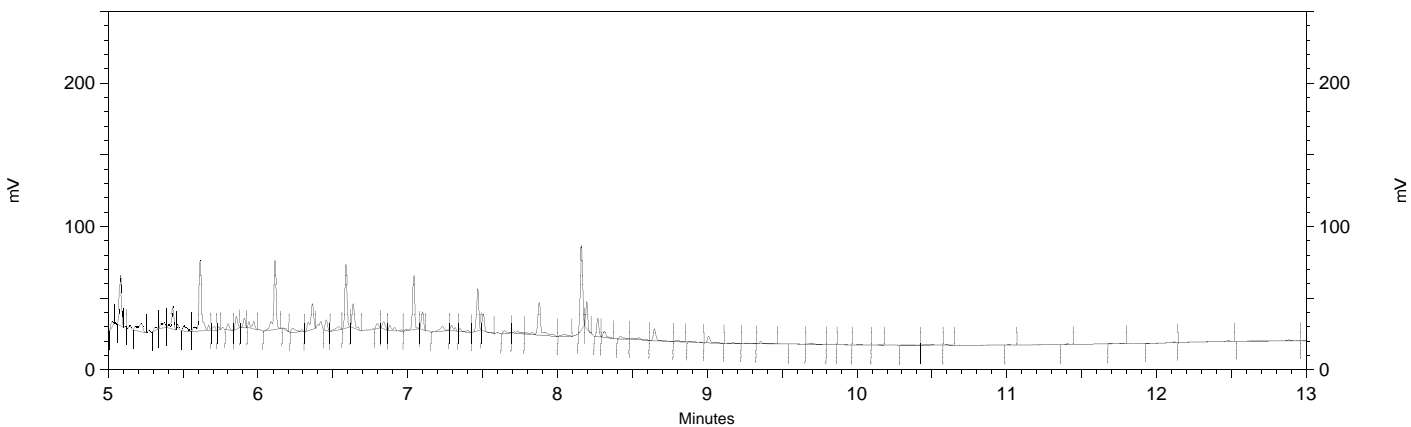
Sample Name: ical,s36611,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b066
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 9:29:37 PM
Analysis Date: 4/25/2018 8:35:45 AM
Instrument: GC14B Vial: 66 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36611,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b066
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 9:29:37 PM
 Analysis Date: 4/24/2018 9:49:47 PM
 Instrument: GC14B Vial: 66 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.293	5939	0.134
Hexacosane	10.010	893	0.023



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

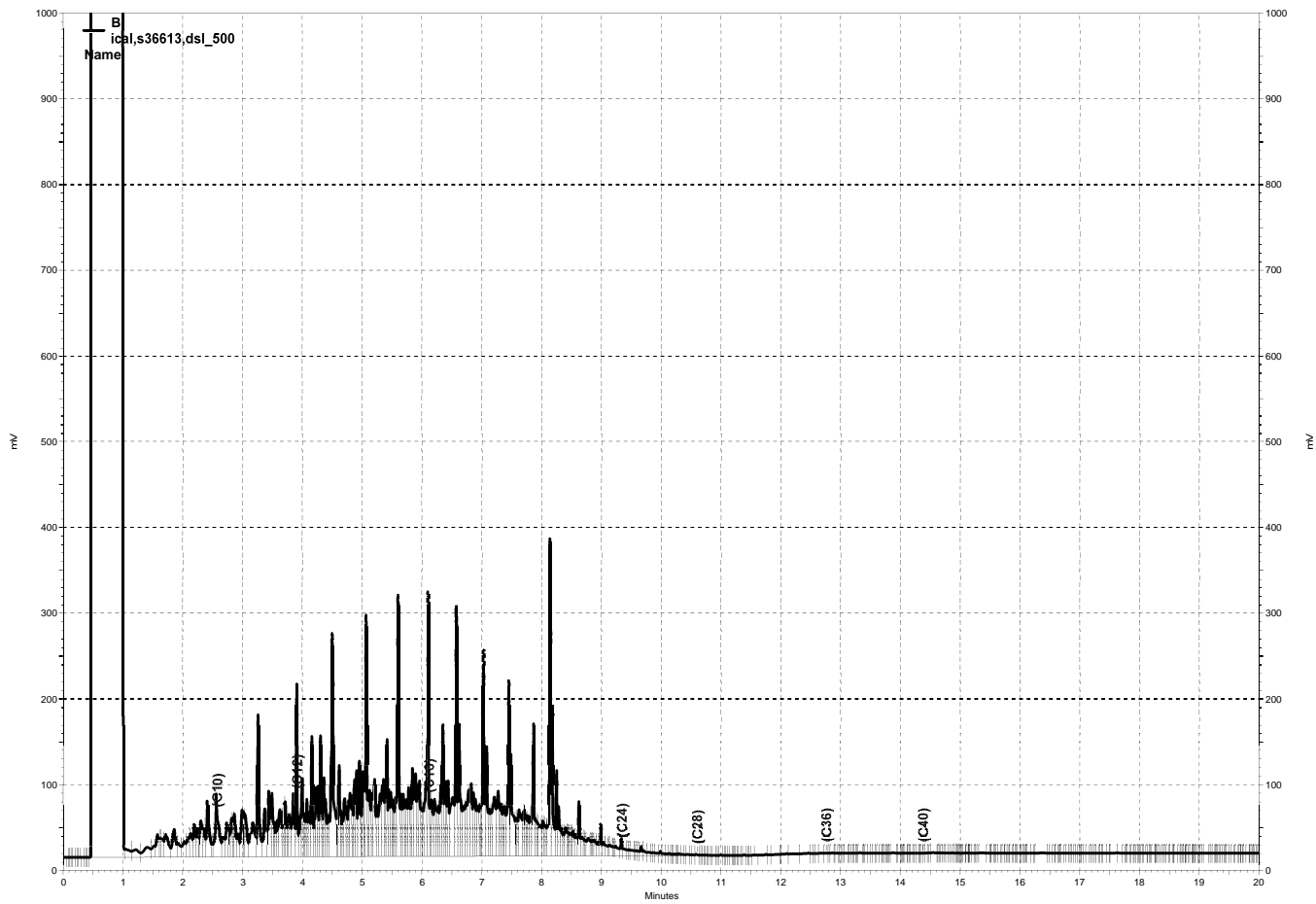
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b066_A6DC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b067, B

Sample Name: ical,s36613,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b067
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 9:57:41 PM
 Analysis Date: 4/25/2018 8:35:52 AM
 Instrument: GC14B Vial: 67 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	13051890	0.000 CAL
DSL:10-22	21953688	500.000 CAL
DSL:10-24	22530604	500.000 CAL
DSL:10-28	22746636	500.000 CAL
DSL:12-24	19491664	500.000 CAL
DSL:12-28	19707696	500.000 CAL
DSL:16-24	10328998	500.000 CAL
MO:22-32	1056879	0.000 CAL
MO:24-36	328923	0.000 CAL
MO:28-40	52763	0.000 CAL
BUNKC:10-40	22793680	0.000 CAL
BUNKC:12-40	19754740	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

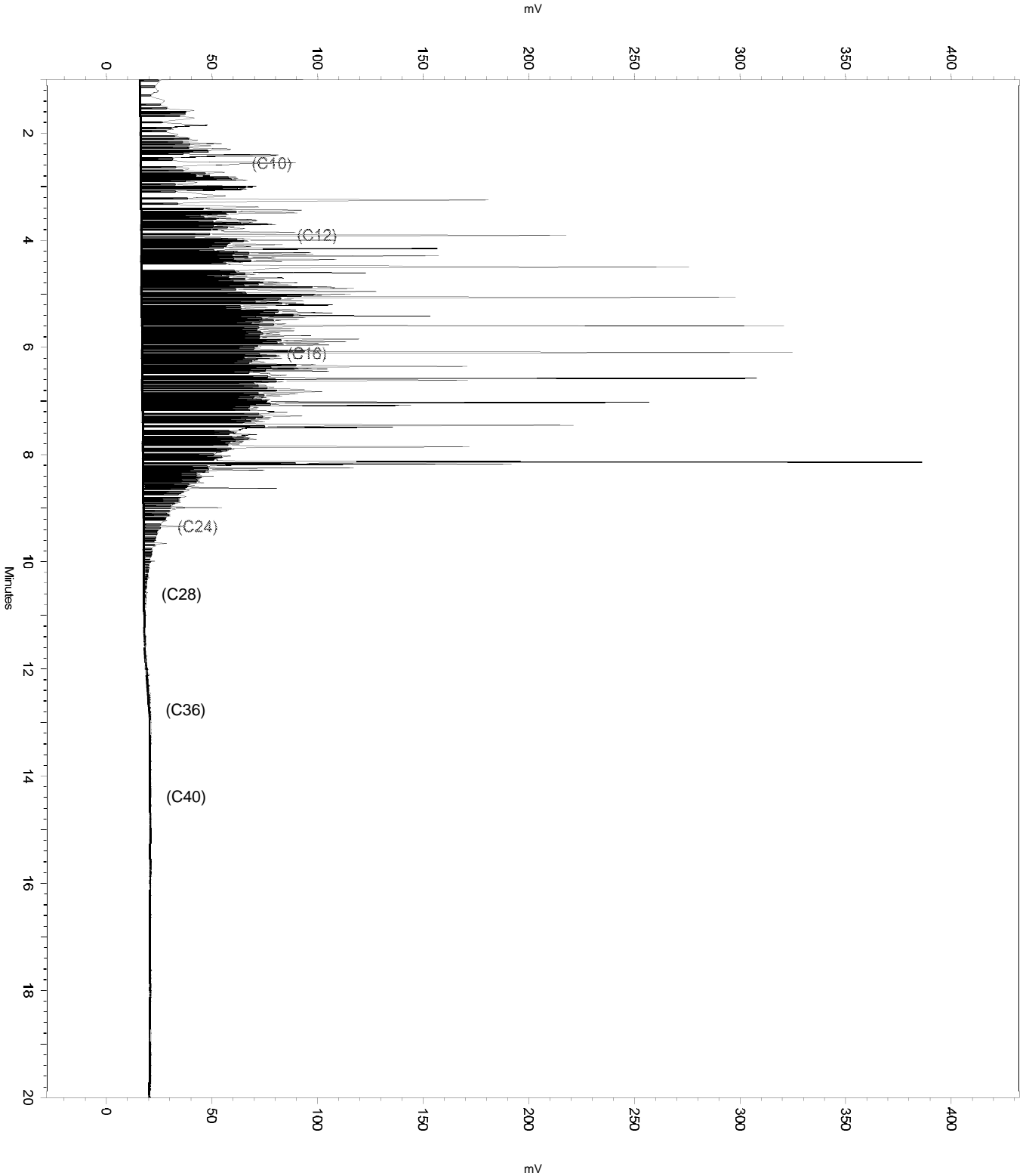
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b067
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

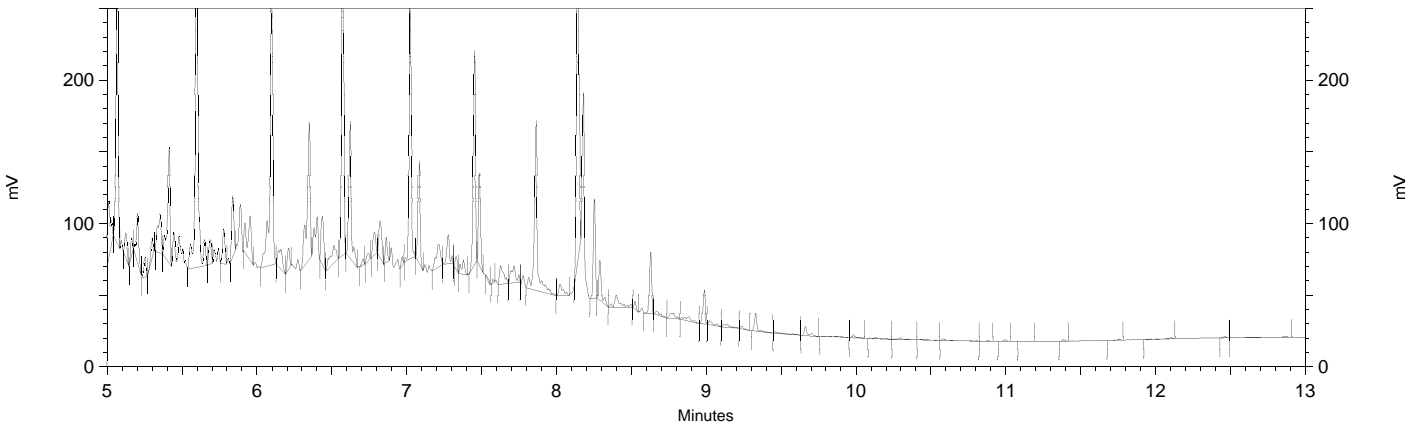
Sample Name: ical,s36613,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b067
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 9:57:41 PM
Analysis Date: 4/25/2018 8:35:52 AM
Instrument: GC14B Vial: 67 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36613,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b067
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 9:57:41 PM
 Analysis Date: 4/24/2018 10:17:50 PM
 Instrument: GC14B Vial: 67 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.277	26333	0.594
Hexacosane	9.985	3896	0.099



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

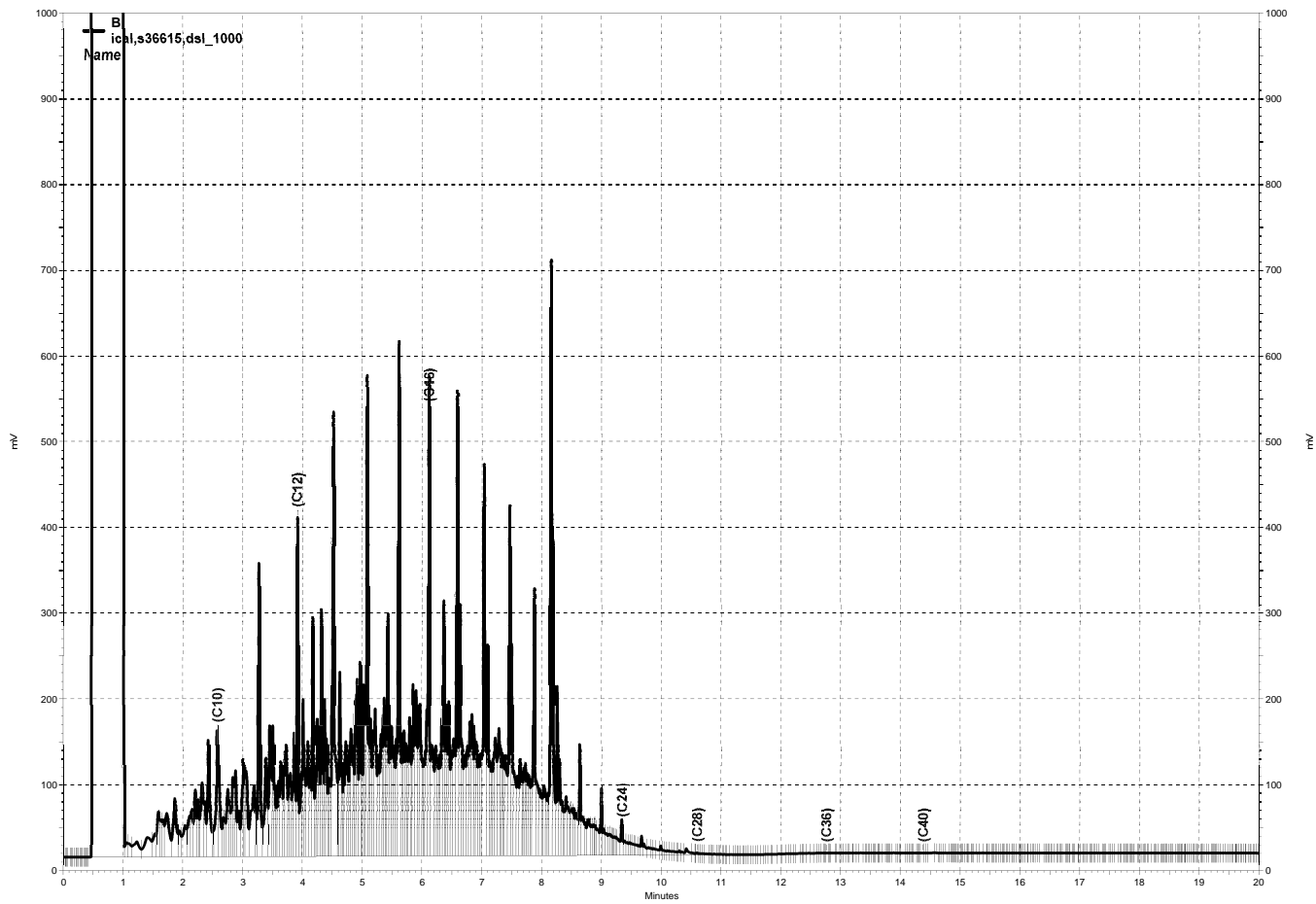
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b067_A6DD.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b068, B

Sample Name: ical,s36615,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b068
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 10:25:39 PM
 Analysis Date: 4/25/2018 8:35:58 AM
 Instrument: GC14B Vial: 68 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	26063924	0.000 CAL
DSL:10-22	43820132	1000.000 CAL
DSL:10-24	44965744	1000.000 CAL
DSL:10-28	45482216	1000.000 CAL
DSL:12-24	38763944	1000.000 CAL
DSL:12-28	39280416	1000.000 CAL
DSL:16-24	20560352	1000.000 CAL
MO:22-32	2195363	0.000 CAL
MO:24-36	719017	0.000 CAL
MO:28-40	151305	0.000 CAL
BUNKC:10-40	45619836	0.000 CAL
BUNKC:12-40	39418036	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

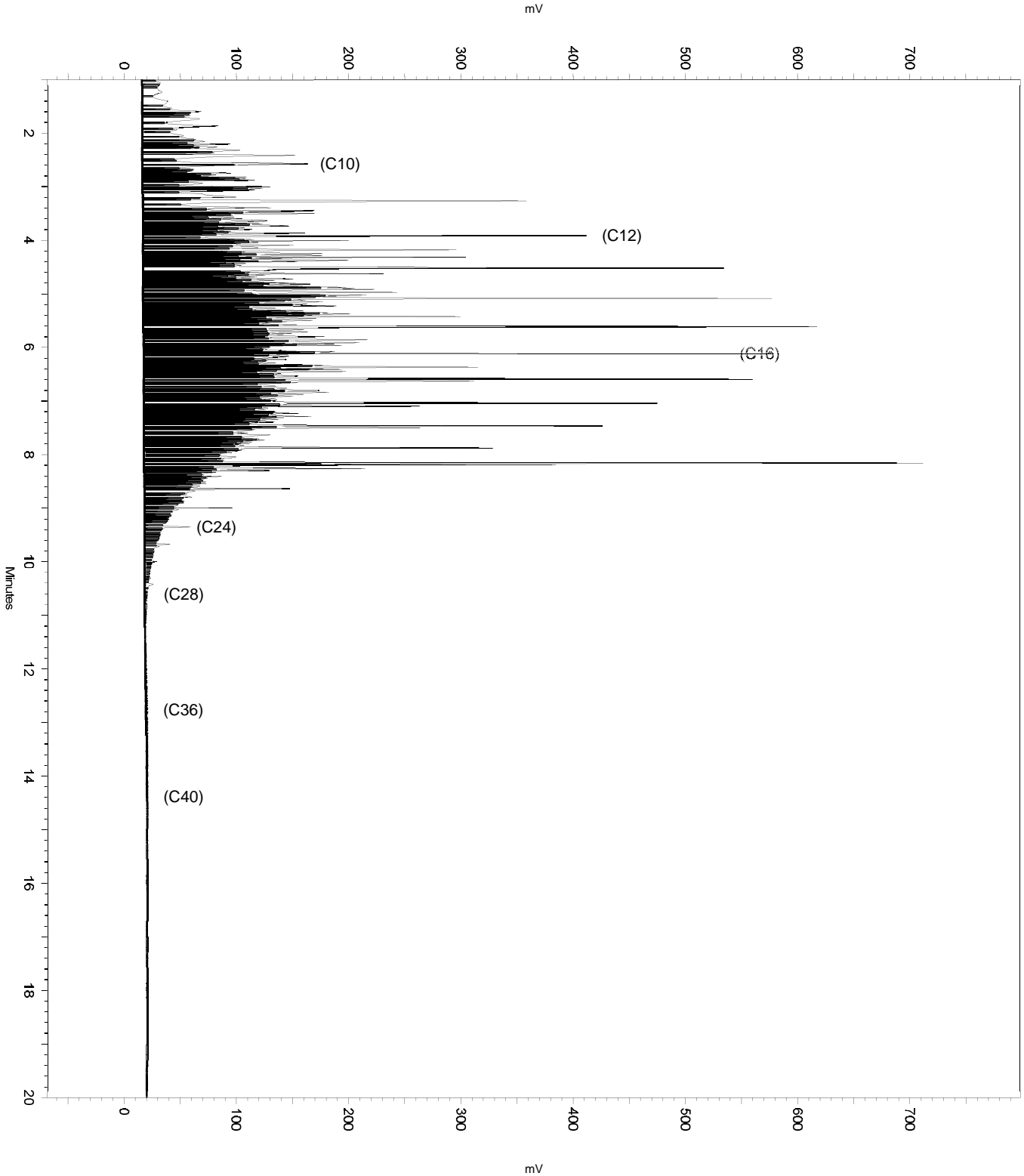
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0    0
Yes Threshold            0          0   10
Yes Force Peak Stop     2.27       0    0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b068
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

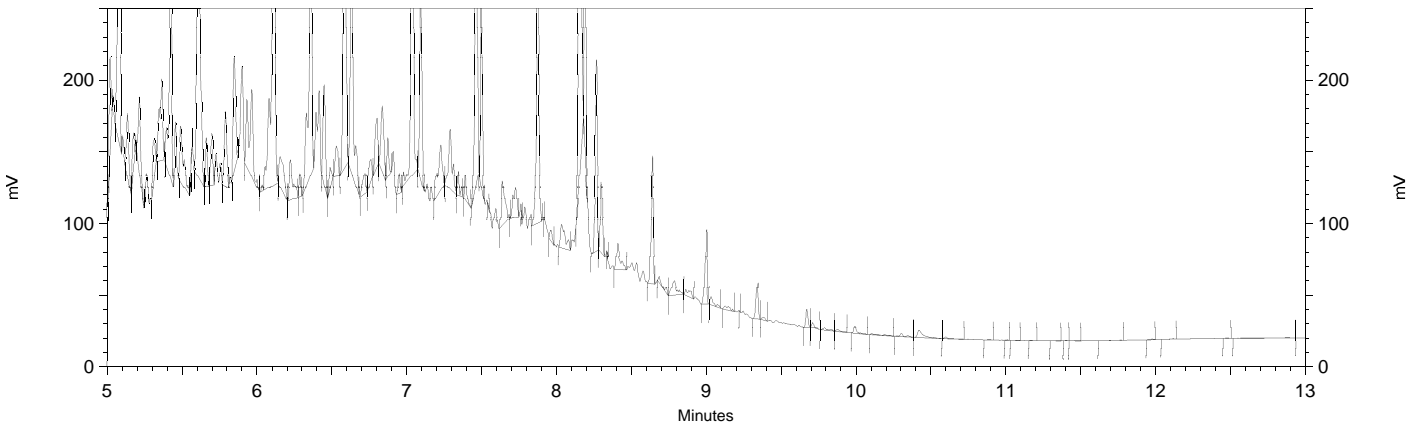
Sample Name: ical,s36615,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b068
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 10:25:39 PM
Analysis Date: 4/25/2018 8:35:58 AM
Instrument: GC14B Vial: 68 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36615,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b068
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 10:25:39 PM
 Analysis Date: 4/24/2018 10:45:48 PM
 Instrument: GC14B Vial: 68 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.290	71882	1.621
Hexacosane	9.997	7117	0.180



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

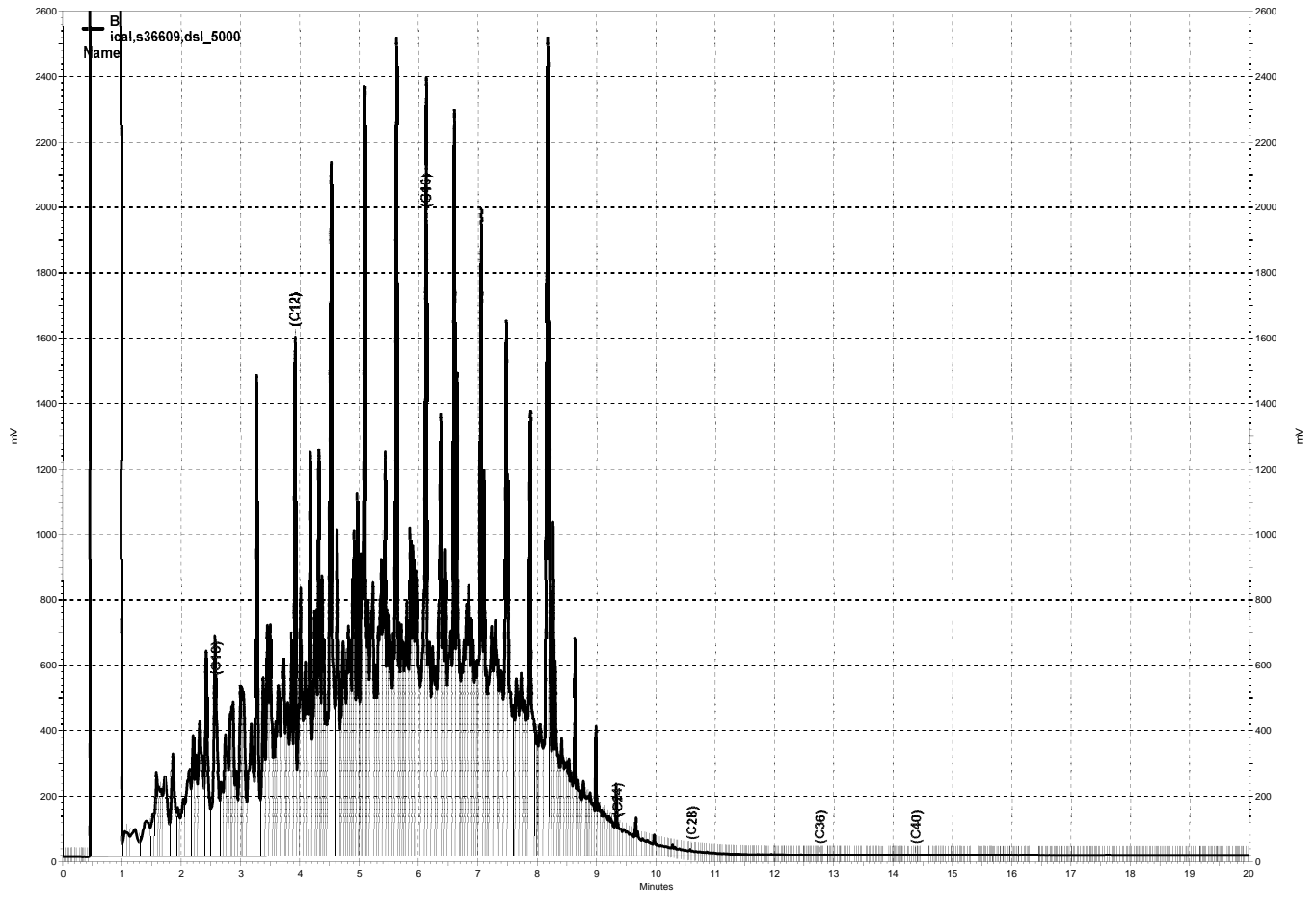
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b068_A6DE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069, B

Sample Name: ical,s36609,ds1_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 10:53:36 PM
 Analysis Date: 4/25/2018 8:36:06 AM
 Instrument: GC14B Vial: 69 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	131019048	0.000 CAL
DSL:10-22	220768528	5000.000 CAL
DSL:10-24	227007888	5000.000 CAL
DSL:10-28	229823200	5000.000 CAL
DSL:12-24	196437424	5000.000 CAL
DSL:12-28	199252736	5000.000 CAL
DSL:16-24	105117352	5000.000 CAL
MO:22-32	12001087	0.000 CAL
MO:24-36	4098456	0.000 CAL
MO:28-40	636985	0.000 CAL
BUNKC:10-40	230344496	0.000 CAL
BUNKC:12-40	199774032	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

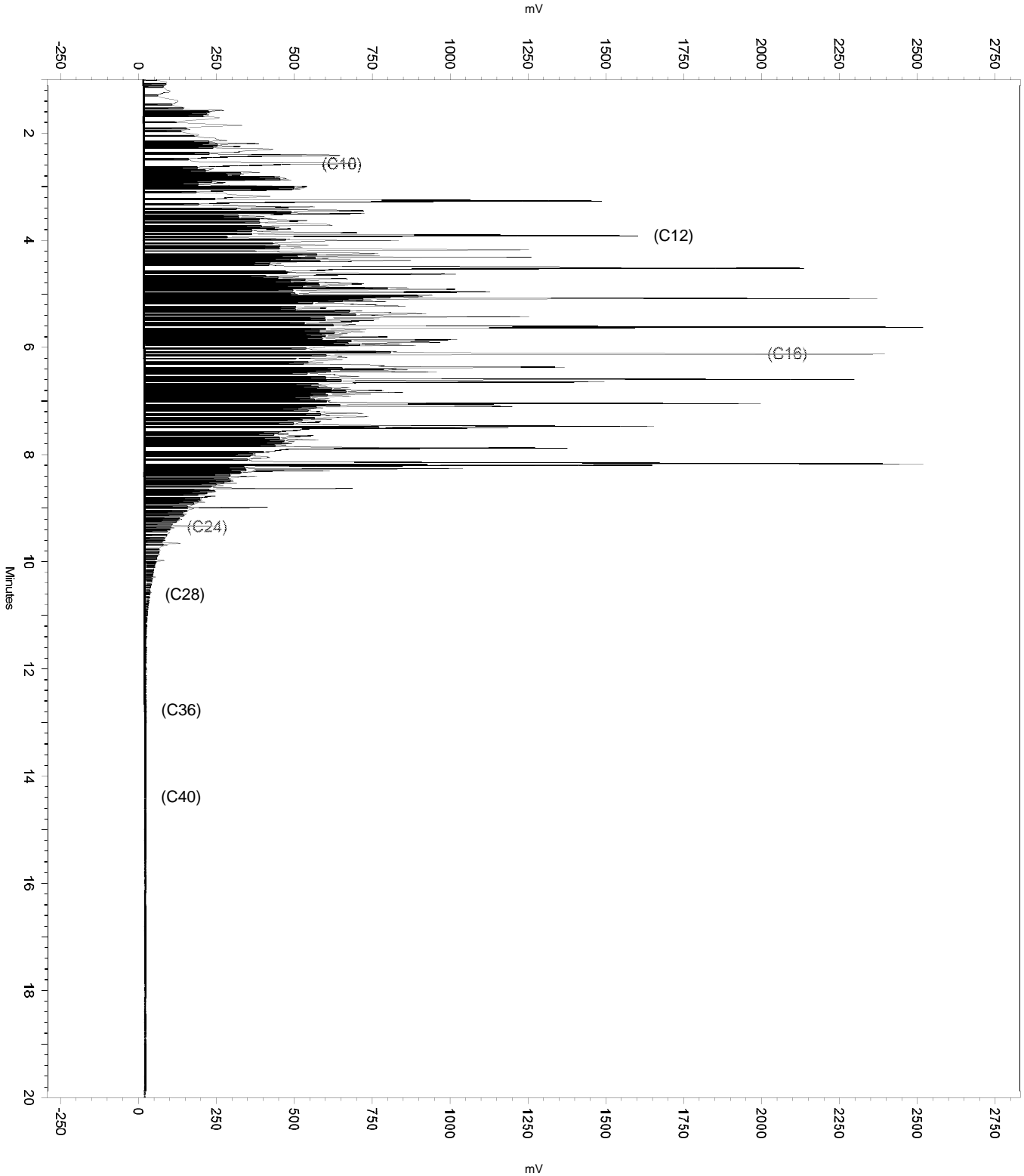
=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0     0
Yes Threshold           0       0    10
Yes Force Peak Stop    2.27    0     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop       14.258  14.458  0
  
```

Sample Name: ical,s36609,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 10:53:36 PM
Analysis Date: 4/25/2018 8:36:06 AM
Instrument: GC14B Vial: 69 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36609,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 10:53:36 PM
 Analysis Date: 4/25/2018 8:34:12 AM
 Instrument: GC14B Vial: 69 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	131013664	0.000 CAL
DSL:10-22	220756672	5000.000 CAL
DSL:10-24	226993712	5000.000 CAL
DSL:10-28	229804592	5000.000 CAL
DSL:12-24	196424528	5000.000 CAL
DSL:12-28	199235408	5000.000 CAL
DSL:16-24	105108112	5000.000 CAL
MO:22-32	11989438	0.000 CAL
MO:24-36	4084573	0.000 CAL
MO:28-40	620110	0.000 CAL
BUNKC:10-40	230309584	0.000 CAL
BUNKC:12-40	199740400	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

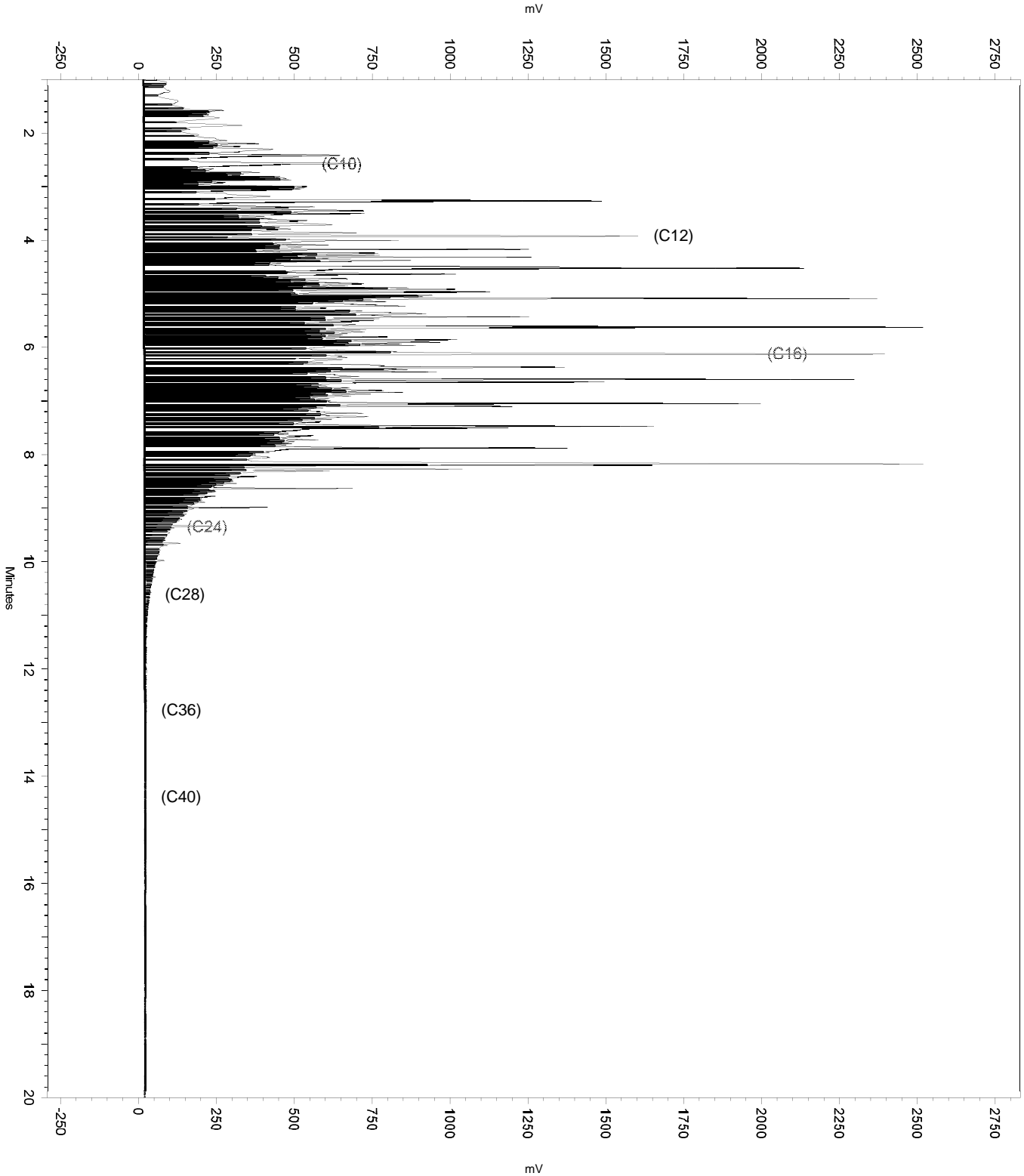
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

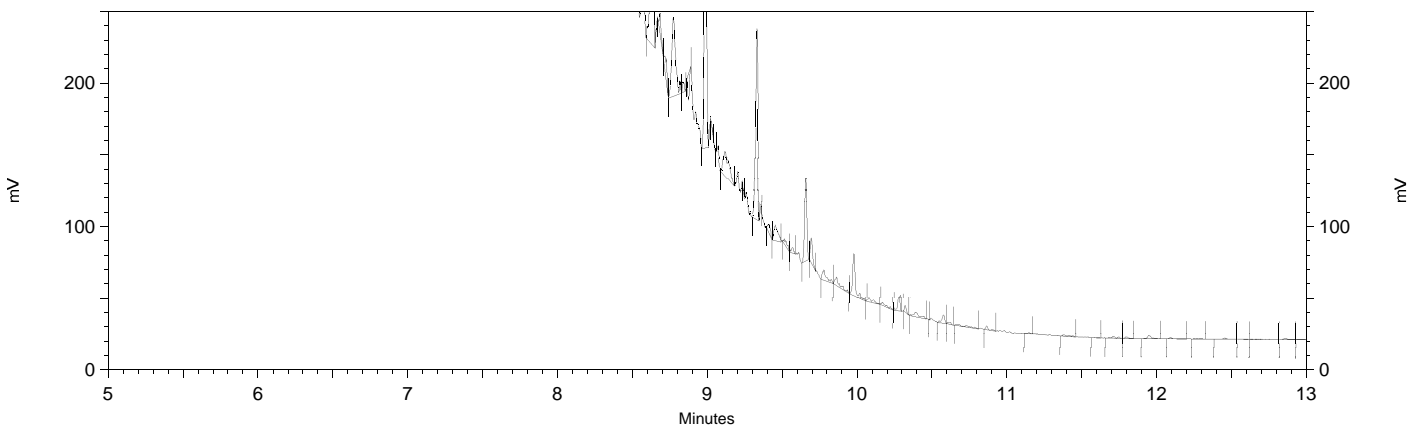

Sample Name: ical,s36609,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 10:53:36 PM
Analysis Date: 4/25/2018 8:34:12 AM
Instrument: GC14B Vial: 69 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36609,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 10:53:36 PM
 Analysis Date: 4/24/2018 11:13:45 PM
 Instrument: GC14B Vial: 69 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.292	308652	6.961
Hexacosane	9.977	37424	0.947



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

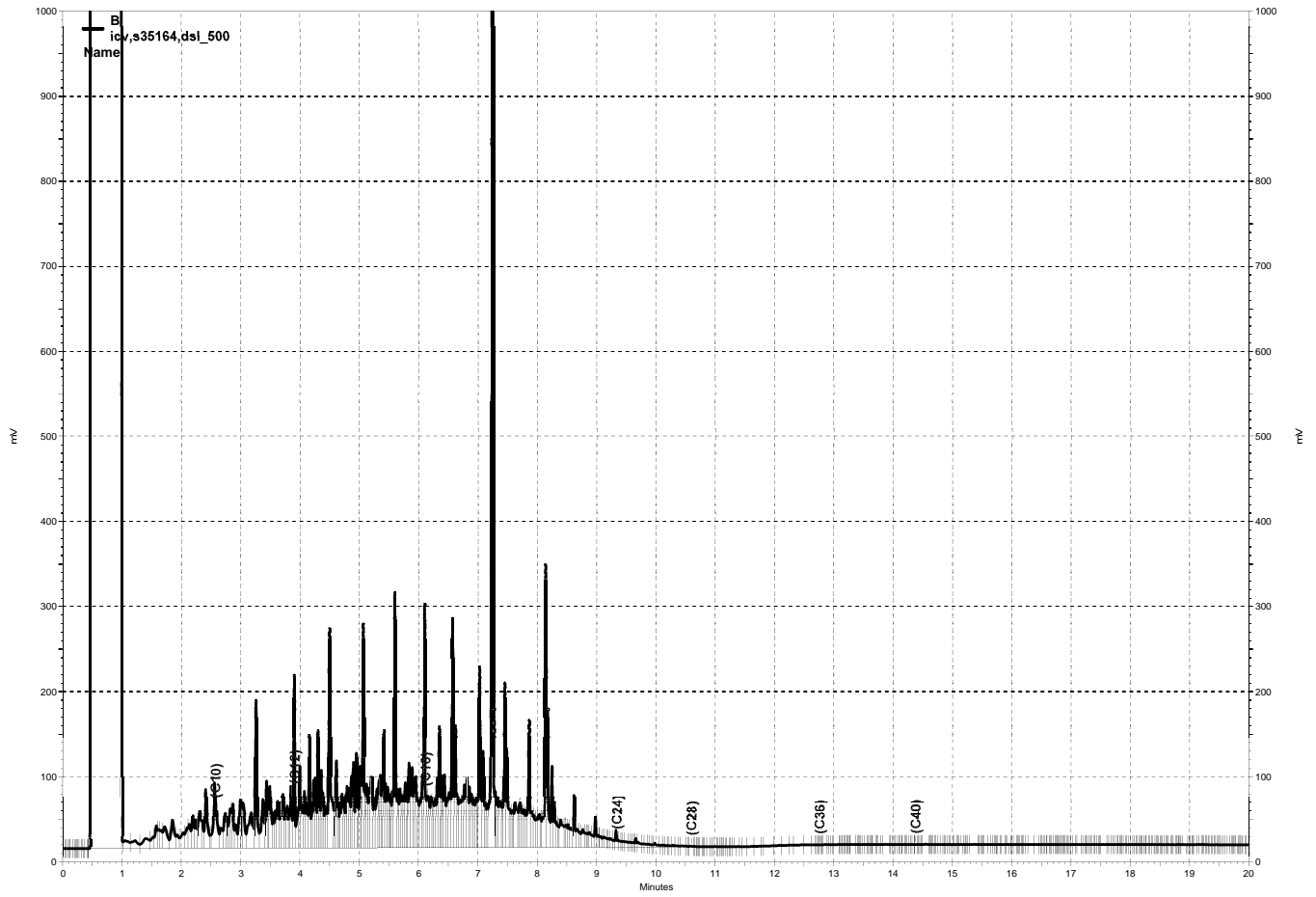
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b069_A6DF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071, B

Sample Name: icv,s35164,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 11:49:35 PM
 Analysis Date: 4/25/2018 9:09:27 AM
 Instrument: GC14B Vial: 71 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12829230	316.302
DSL:10-22	23951324	545.157
DSL:10-24	24481440	544.035
DSL:10-28	24689348	542.198
DSL:12-24	21366524	552.042
DSL:12-28	21574432	549.801
DSL:16-24	12383006	605.383
MO:22-32	949819	29.399
MO:24-36	349657	10.433
MO:28-40	92901	4.202
BUNKC:10-40	24776552	1207.453
BUNKC:12-40	21661636	1086.868

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

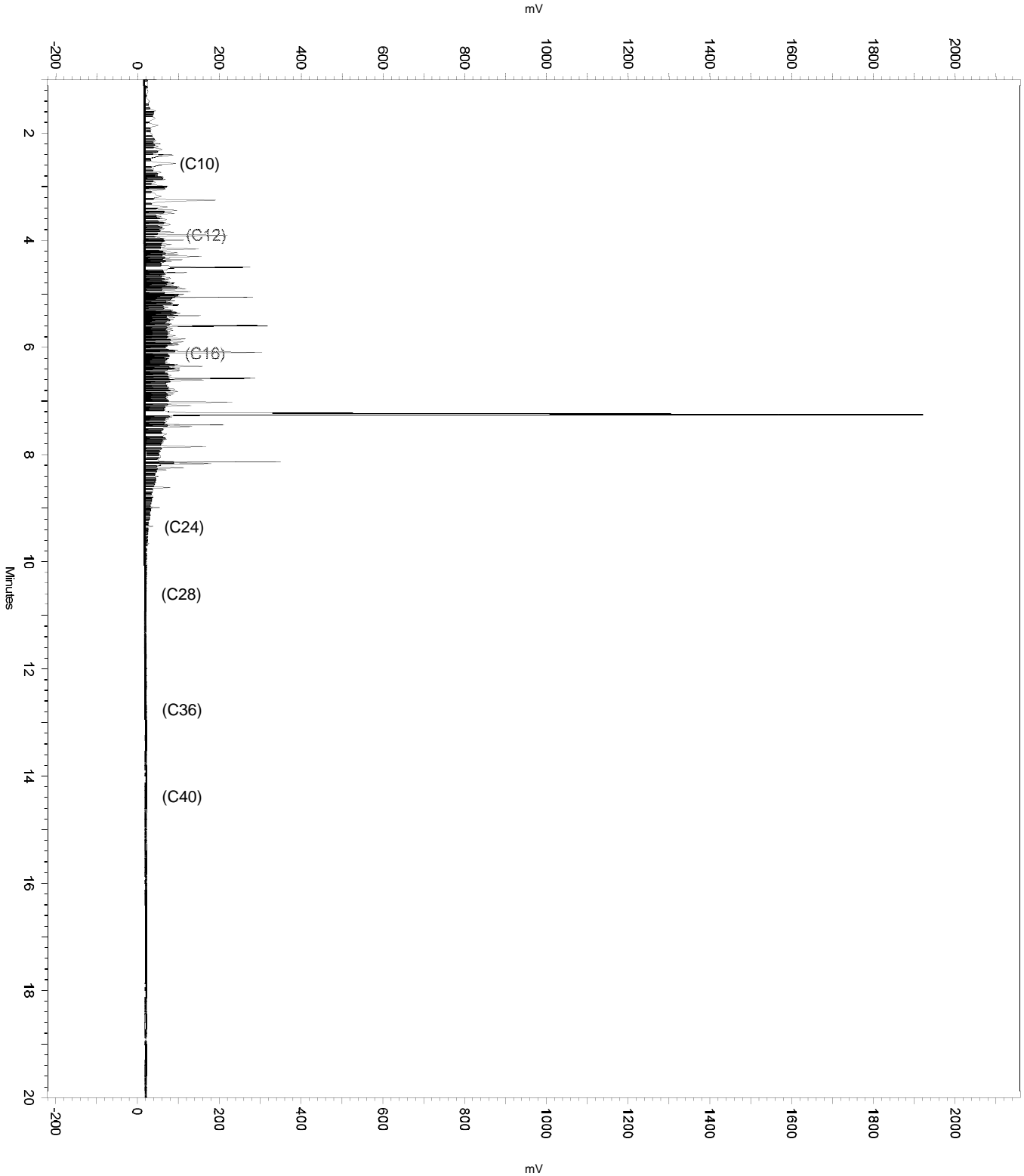
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      7.168     7.397    0
No Split Peak           7.201     0         0
No Split Peak           7.269     0         0
Yes Move BL Stop        10.06     11.138   0
  
```

Sample Name: icv,s35164,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 11:49:35 PM
Analysis Date: 4/25/2018 9:09:27 AM
Instrument: GC14B Vial: 71 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: icv,s35164,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 11:49:35 PM
 Analysis Date: 4/25/2018 9:09:03 AM
 Instrument: GC14B Vial: 71 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12641231	311.667
DSL:10-22	23529840	535.564
DSL:10-24	23980948	532.913
DSL:10-28	24076026	528.729
DSL:12-24	20913076	540.326
DSL:12-28	21008154	535.370
DSL:16-24	12060129	589.598
MO:22-32	739047	22.875
MO:24-36	213908	6.383
MO:28-40	84810	3.836
BUNKC:10-40	24159520	1177.383
BUNKC:12-40	21091648	1058.269

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

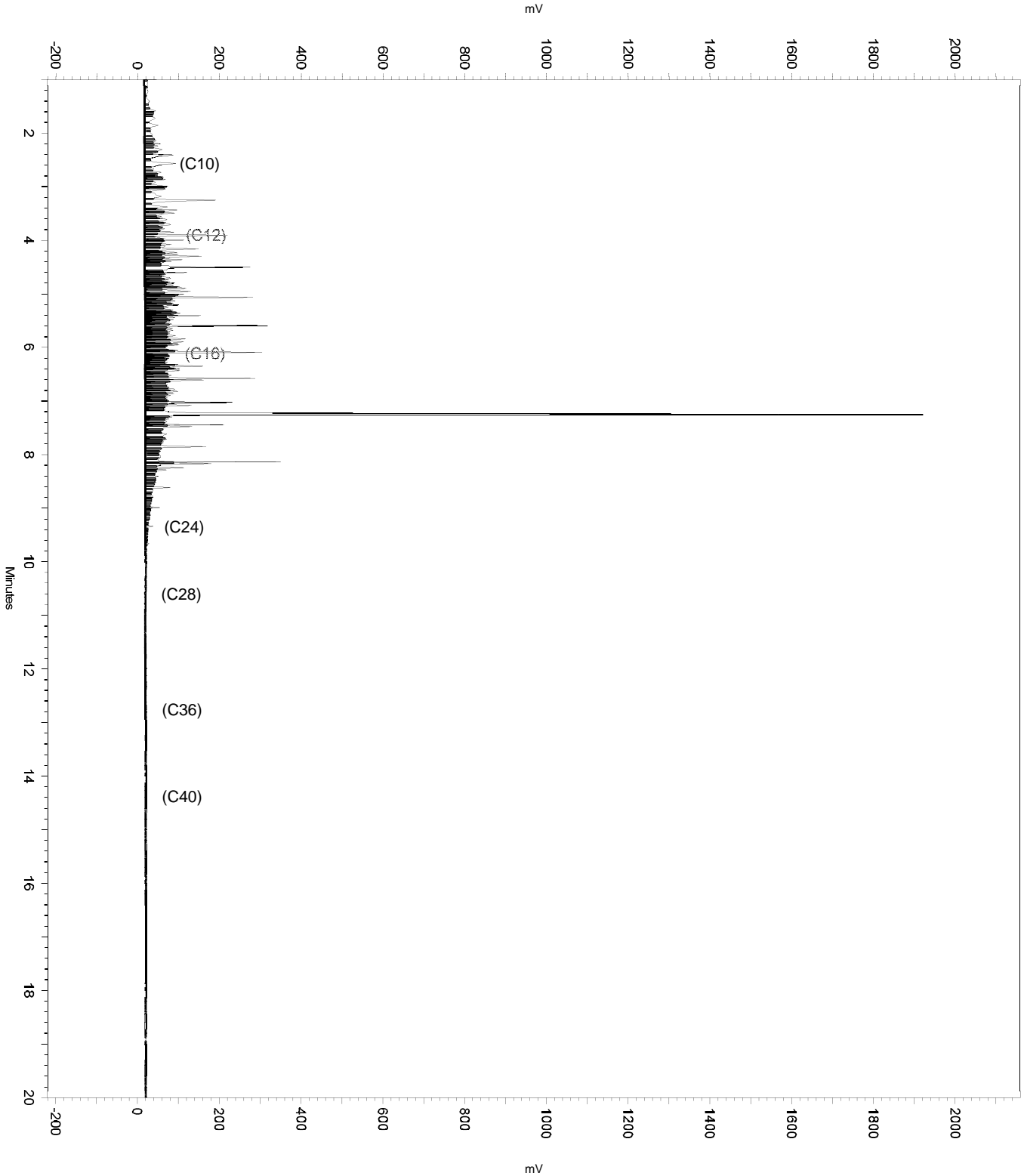
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      7.168     7.397    0
No Split Peak           7.201      0        0
No Split Peak           7.269      0        0
  
```

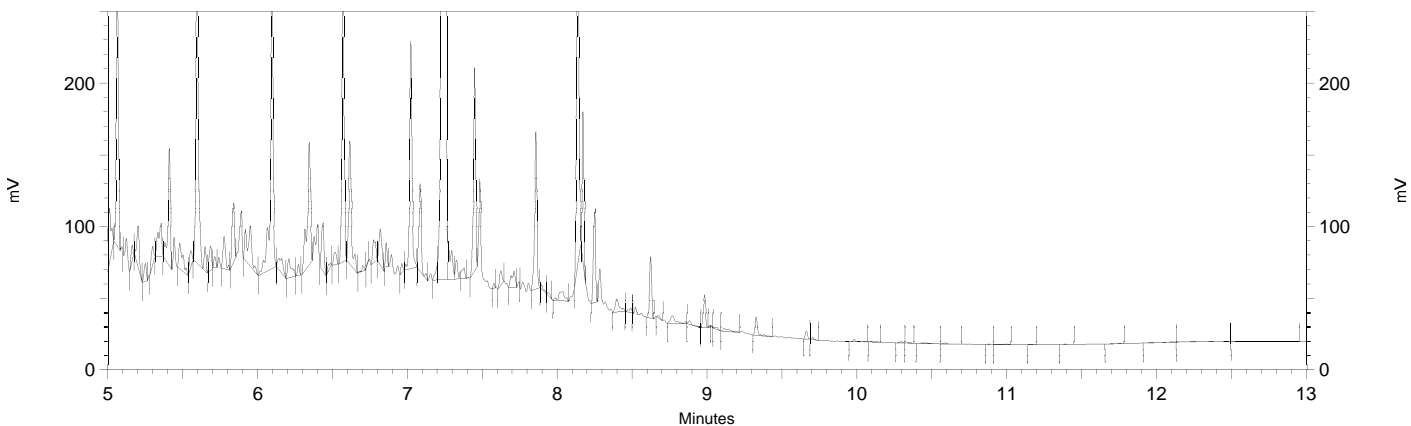
Sample Name: icv,s35164,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 11:49:35 PM
Analysis Date: 4/25/2018 9:09:03 AM
Instrument: GC14B Vial: 71 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: icv,s35164,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 11:49:35 PM
 Analysis Date: 4/25/2018 9:07:45 AM
 Instrument: GC14B Vial: 71 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.253	2651730	49.891
Hexacosane	9.985	3489	0.073



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

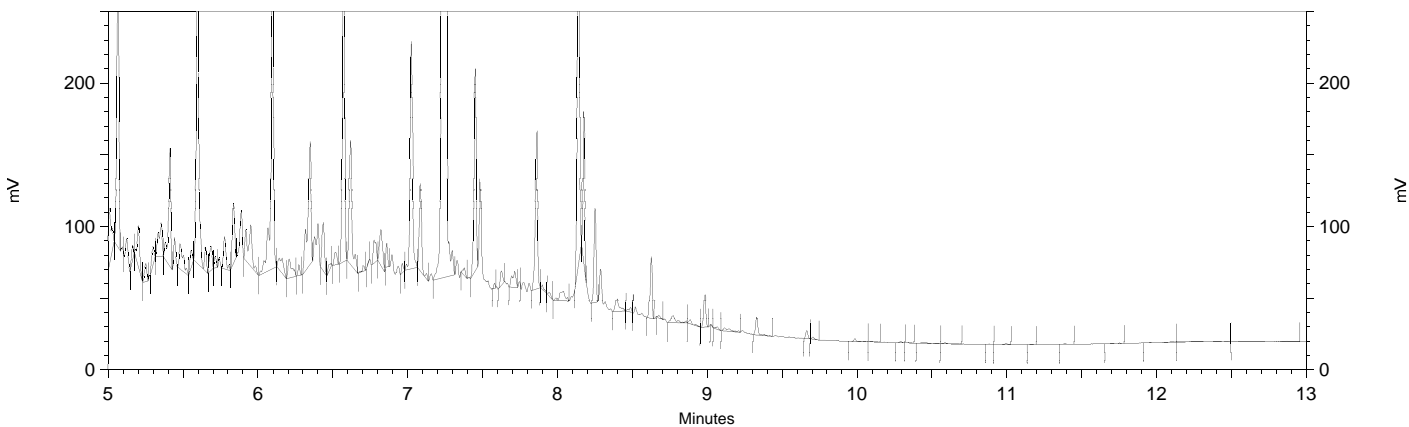
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	7.168	7.397	0
Yes	Split Peak	7.201	0	0
Yes	Split Peak	7.269	0	0

Sample Name: icv,s35164,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 11:49:35 PM
 Analysis Date: 4/25/2018 12:09:44 AM
 Instrument: GC14B Vial: 71 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.253	2692489	60.728
Hexacosane	9.985	3489	0.088



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b071_A6E1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY INITIAL CALIBRATION FOR 301571 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

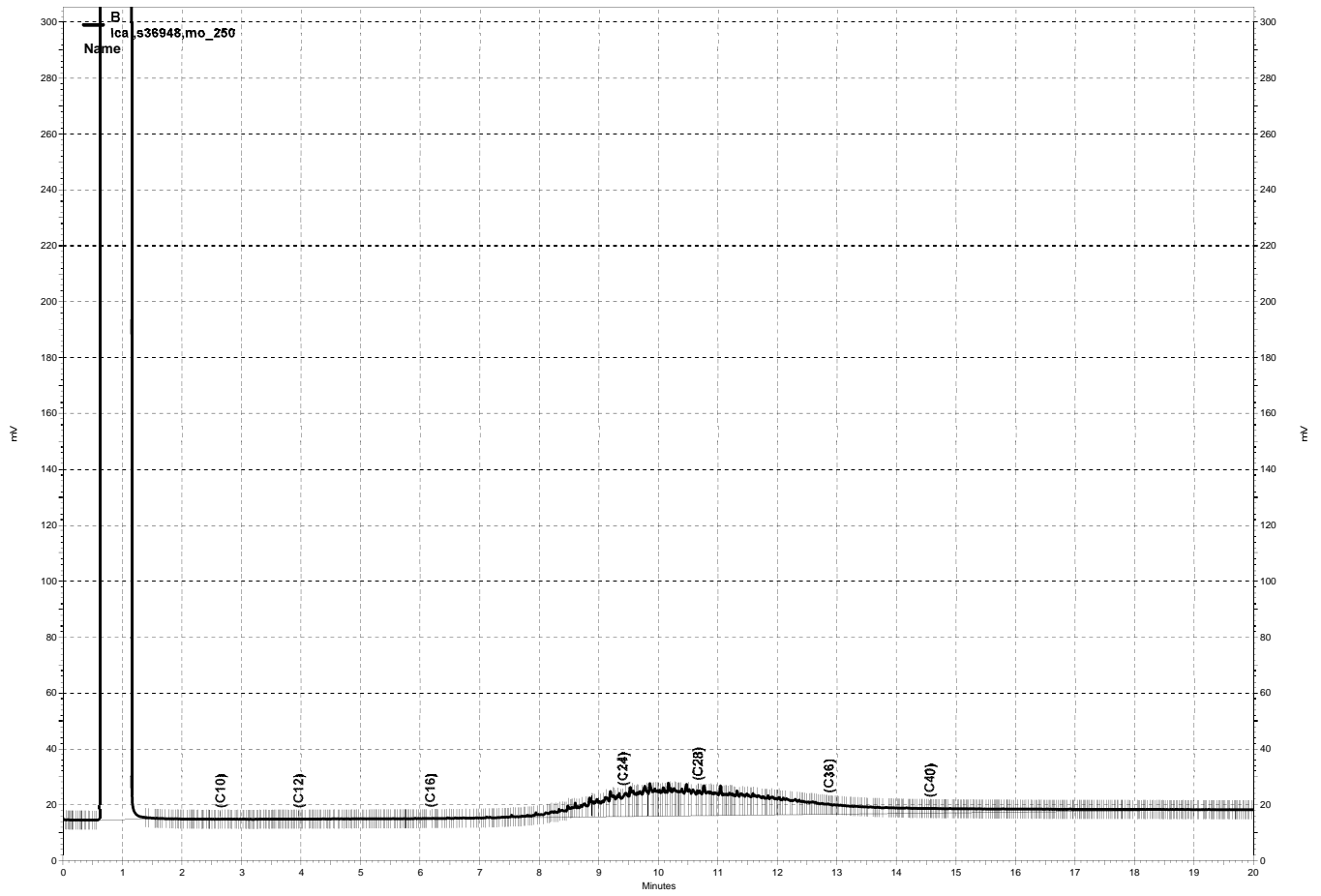
Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016, B

Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 5:17:21 PM
 Analysis Date: 6/5/2018 12:15:41 PM
 Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	9232	0.000 CAL
DSL:10-22	155952	0.000 CAL
DSL:10-24	422233	0.000 CAL
DSL:10-28	1076758	0.000 CAL
DSL:12-24	419621	0.000 CAL
DSL:12-28	1074146	0.000 CAL
DSL:16-24	413587	0.000 CAL
MO:22-32	1442034	50.000 CAL
MO:24-36	1530091	50.000 CAL
MO:28-40	1081117	50.000 CAL
BUNKC:10-40	2109403	0.000 CAL
BUNKC:12-40	2106791	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

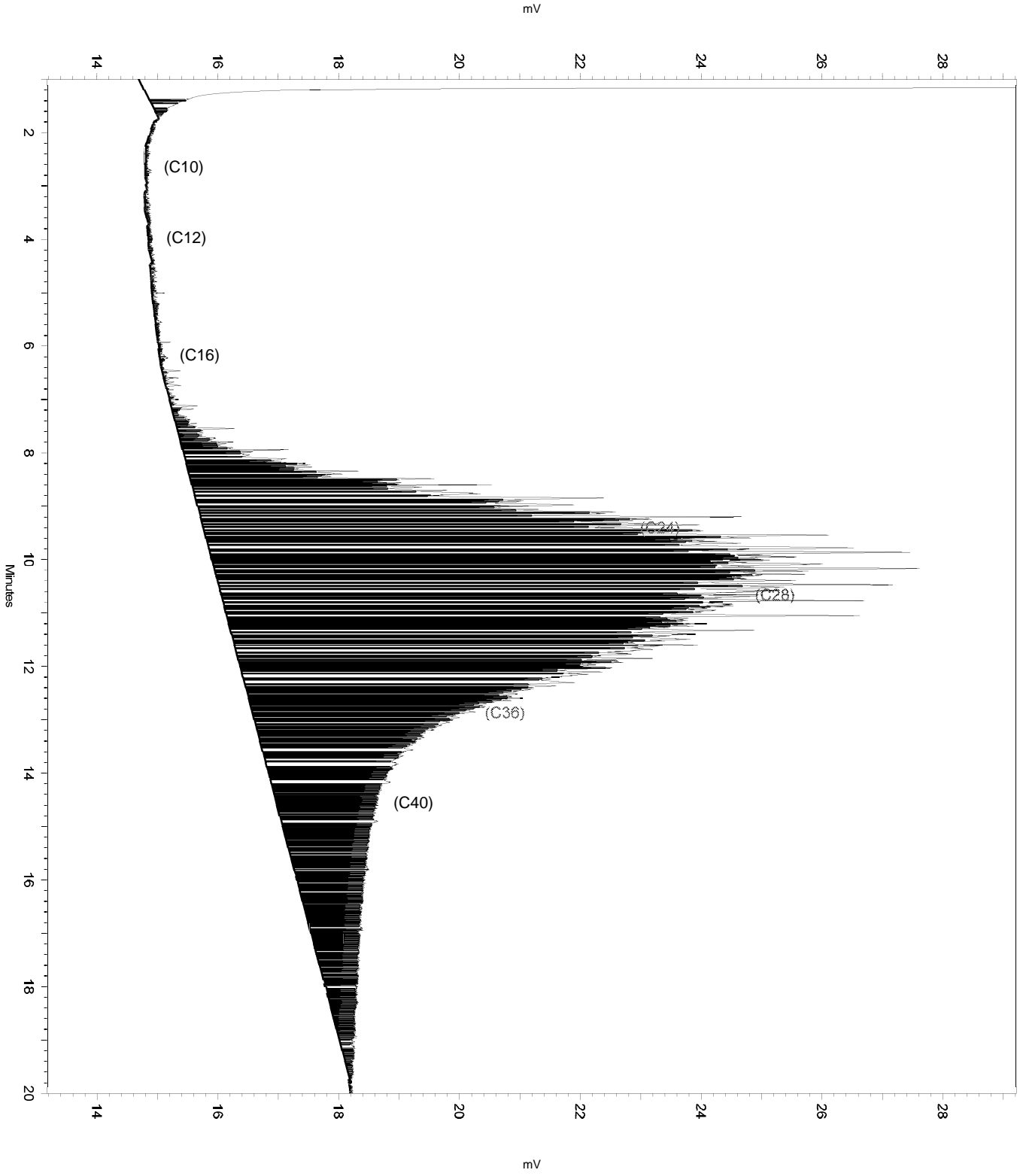
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        7.027     19.782   0
  
```

Sample Name: ical,s36946,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 5:17:21 PM
Analysis Date: 6/5/2018 12:15:41 PM
Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 5:17:21 PM
 Analysis Date: 6/5/2018 11:08:57 AM
 Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	9232	0.000 CAL
DSL:10-22	142580	0.000 CAL
DSL:10-24	396436	0.000 CAL
DSL:10-28	1019522	0.000 CAL
DSL:12-24	393824	0.000 CAL
DSL:12-28	1016910	0.000 CAL
DSL:16-24	387790	0.000 CAL
MO:22-32	1357836	50.000 CAL
MO:24-36	1408897	50.000 CAL
MO:28-40	896760	50.000 CAL
BUNKC:10-40	1870767	0.000 CAL
BUNKC:12-40	1868155	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

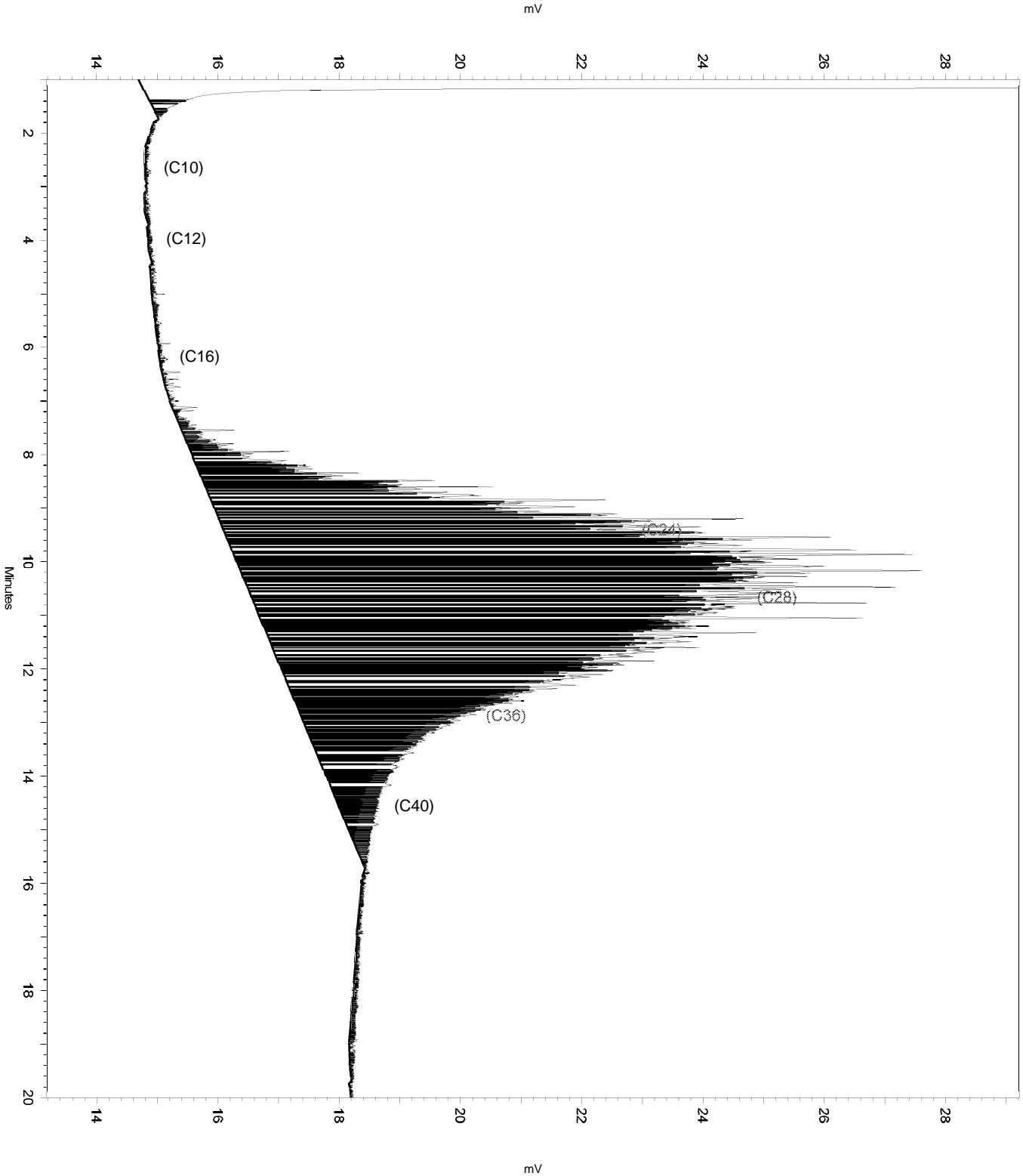
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

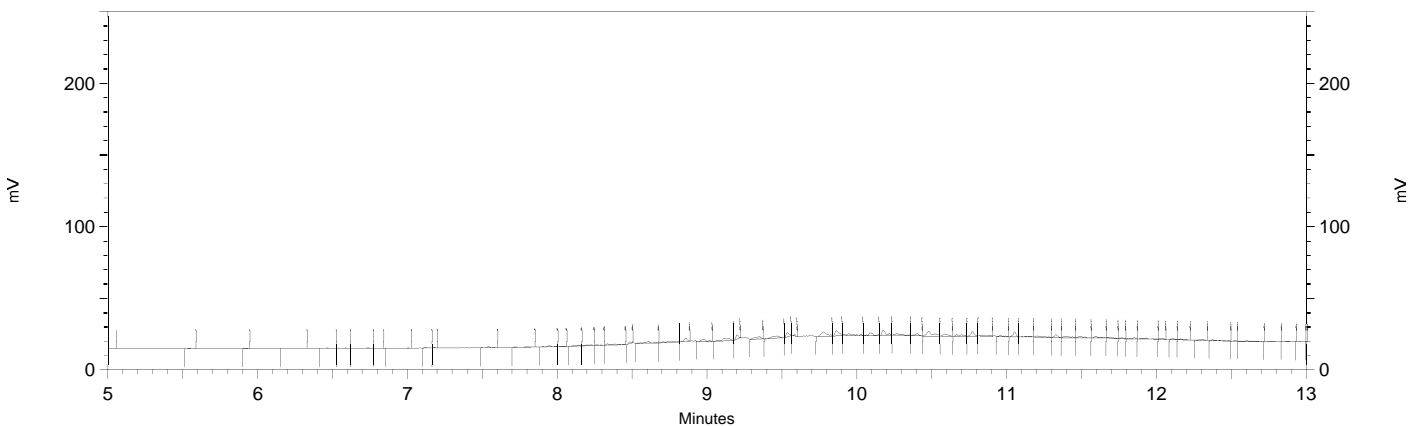
Sample Name: ical,s36946,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 5:17:21 PM
Analysis Date: 6/5/2018 11:08:57 AM
Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 5:17:21 PM
 Analysis Date: 6/5/2018 6:18:53 AM
 Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	10.087	4415	0.093



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

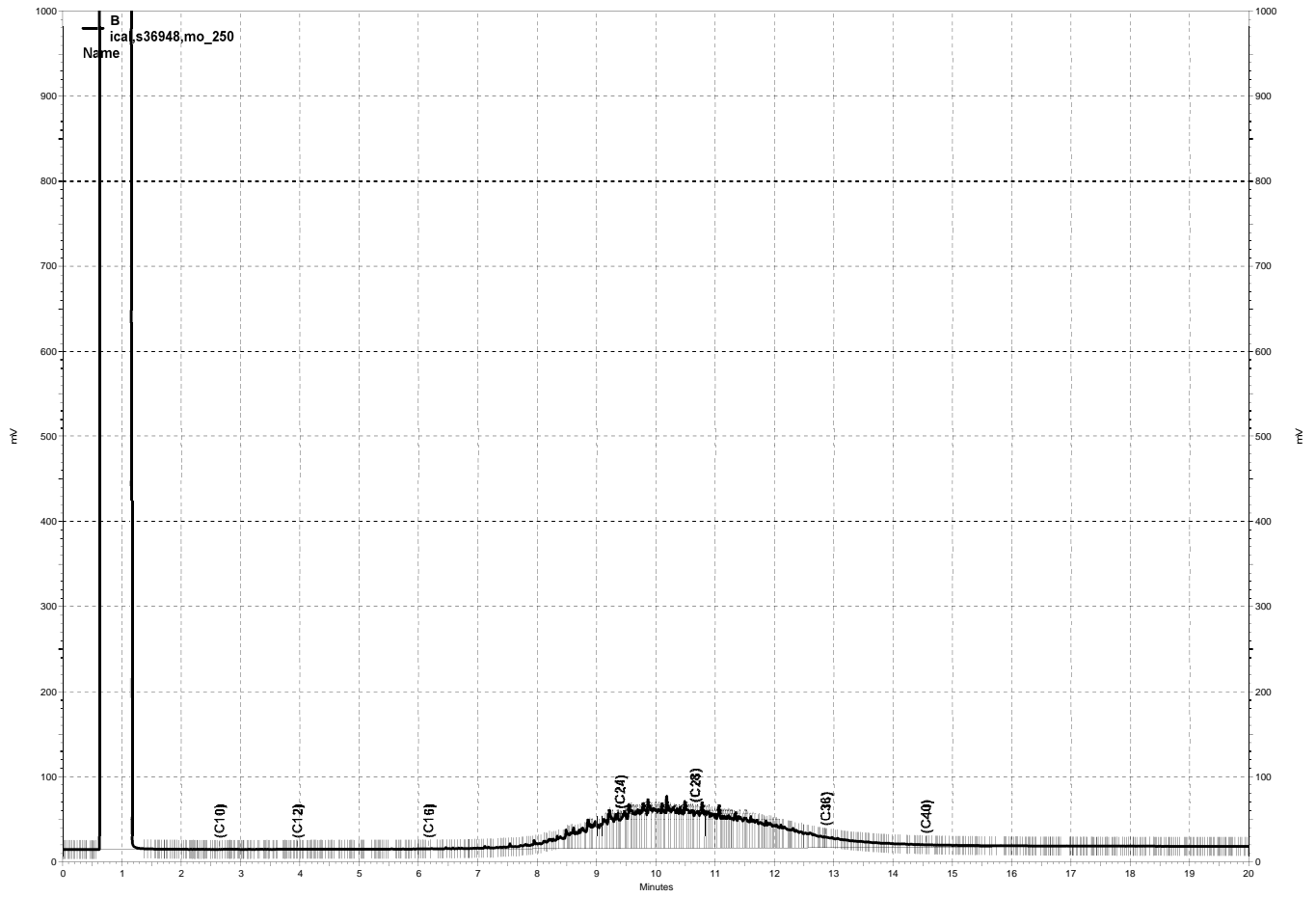
```

=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off      0          2     0
Yes Valley to Valley     0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
None
  
```

\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017, B

Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 5:45:55 PM
 Analysis Date: 6/5/2018 12:15:49 PM
 Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	18165	0.000 CAL
DSL:10-22	841680	0.000 CAL
DSL:10-24	2135428	0.000 CAL
DSL:10-28	5447867	0.000 CAL
DSL:12-24	2130312	0.000 CAL
DSL:12-28	5442751	0.000 CAL
DSL:16-24	2120562	0.000 CAL
MO:22-32	7159874	250.000 CAL
MO:24-36	7394310	250.000 CAL
MO:28-40	4629297	250.000 CAL
BUNKC:10-40	9705492	0.000 CAL
BUNKC:12-40	9700376	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

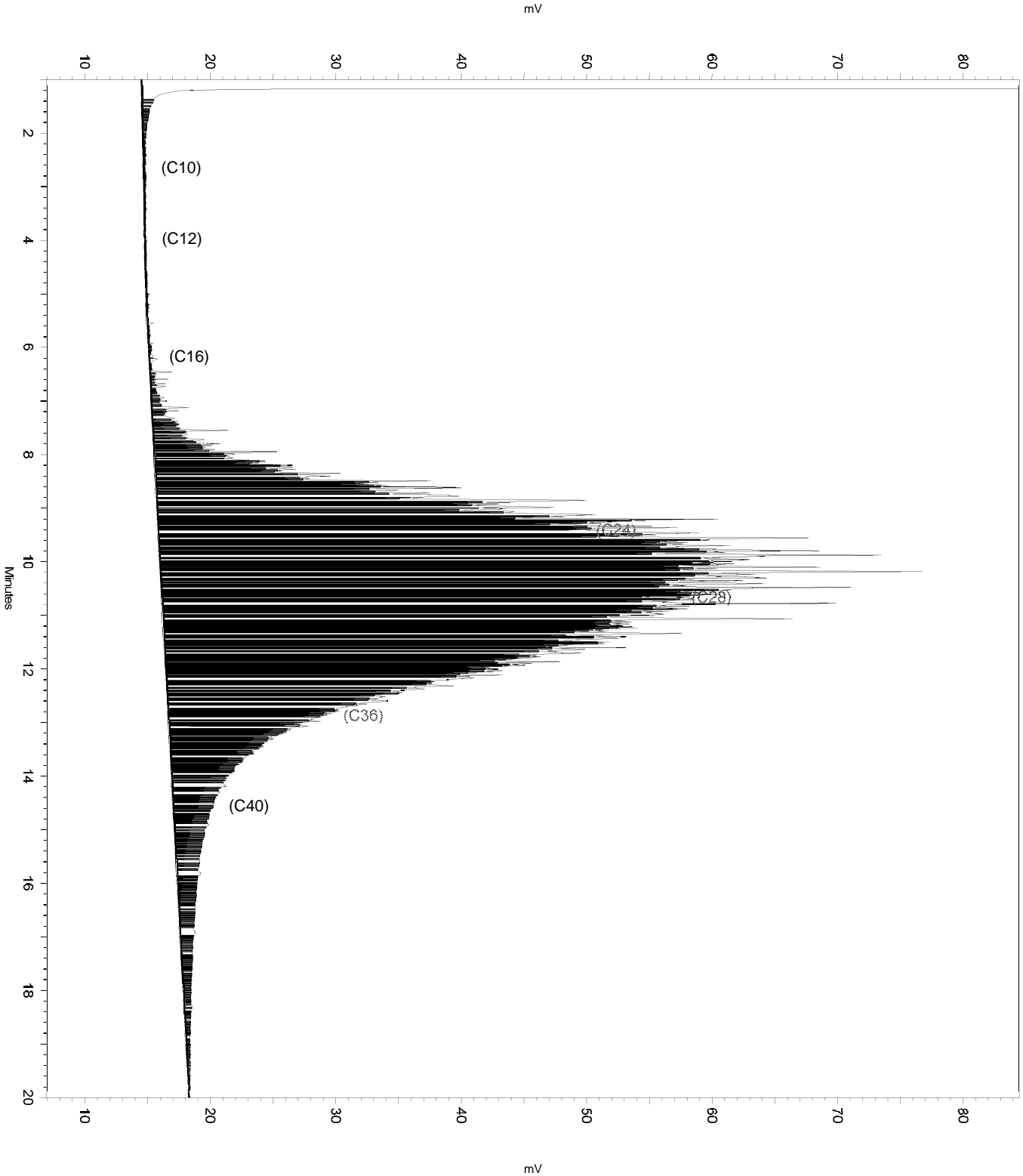
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        5.94     19.727   0
  
```

Sample Name: ical,s36948,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 5:45:55 PM
Analysis Date: 6/5/2018 12:15:49 PM
Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 5:45:55 PM
 Analysis Date: 6/5/2018 11:20:46 AM
 Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	15837	0.000 CAL
DSL:10-22	768173	0.000 CAL
DSL:10-24	2020849	0.000 CAL
DSL:10-28	5233592	0.000 CAL
DSL:12-24	2015733	0.000 CAL
DSL:12-28	5228476	0.000 CAL
DSL:16-24	2007146	0.000 CAL
MO:22-32	6897216	250.000 CAL
MO:24-36	7028516	250.000 CAL
MO:28-40	4102788	250.000 CAL
BUNKC:10-40	8978290	0.000 CAL
BUNKC:12-40	8973174	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

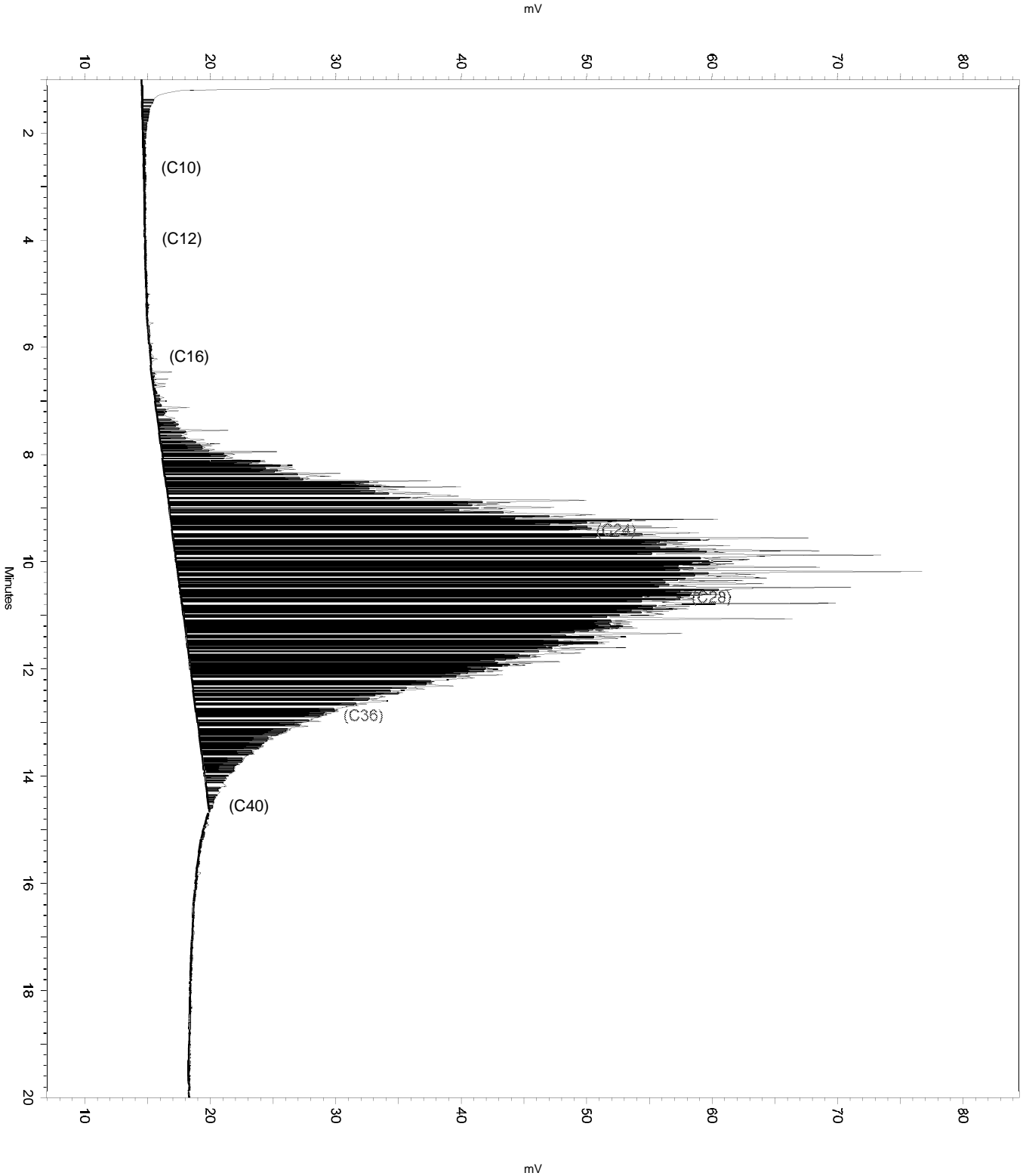
=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0     0
Yes Threshold            0       0    10
Yes Force Peak Stop     2.27    0     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

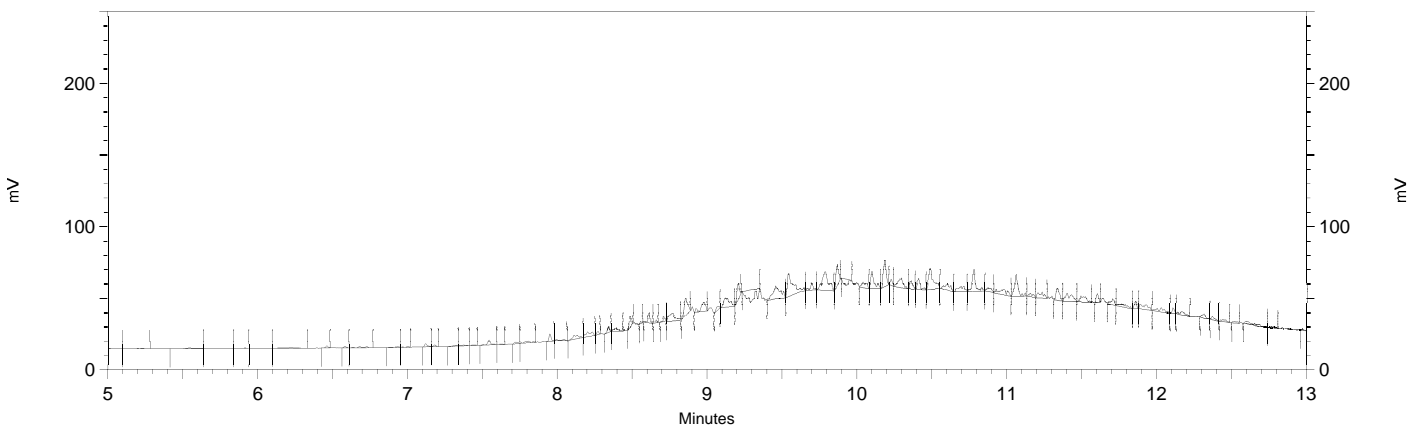
Sample Name: ical,s36948,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 5:45:55 PM
Analysis Date: 6/5/2018 11:20:46 AM
Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 5:45:55 PM
 Analysis Date: 6/5/2018 6:18:59 AM
 Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.320	1104	0.021
Hexacosane	10.102	18014	0.378



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

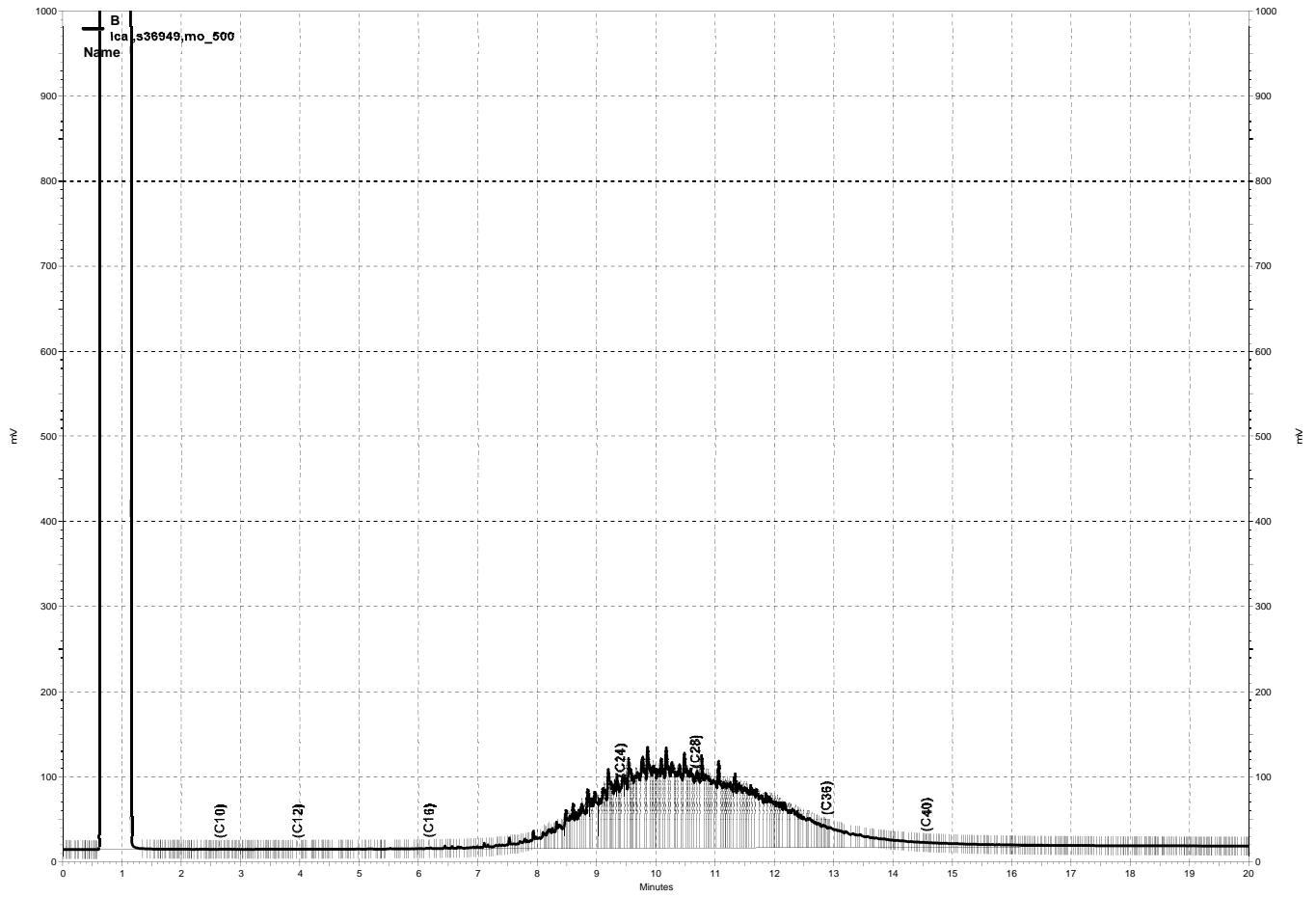
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018, B

Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 6:14:23 PM
 Analysis Date: 6/5/2018 12:15:56 PM
 Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	24157	0.000 CAL
DSL:10-22	1741563	0.000 CAL
DSL:10-24	4358947	0.000 CAL
DSL:10-28	11148433	0.000 CAL
DSL:12-24	4355960	0.000 CAL
DSL:12-28	11145446	0.000 CAL
DSL:16-24	4341868	0.000 CAL
MO:22-32	14487602	500.000 CAL
MO:24-36	14786579	500.000 CAL
MO:28-40	9354536	500.000 CAL
BUNKC:10-40	19664700	0.000 CAL
BUNKC:12-40	19661716	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

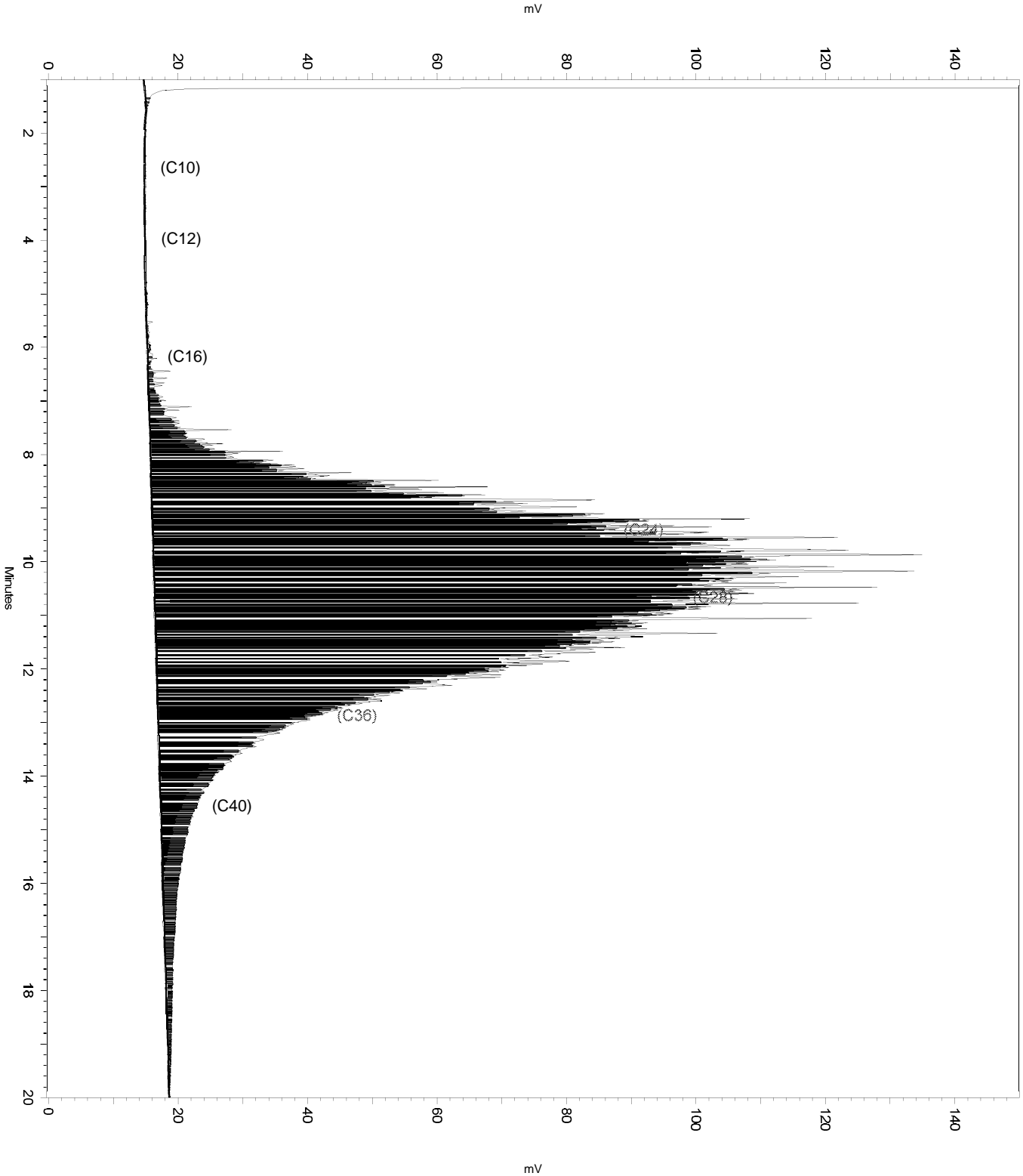
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

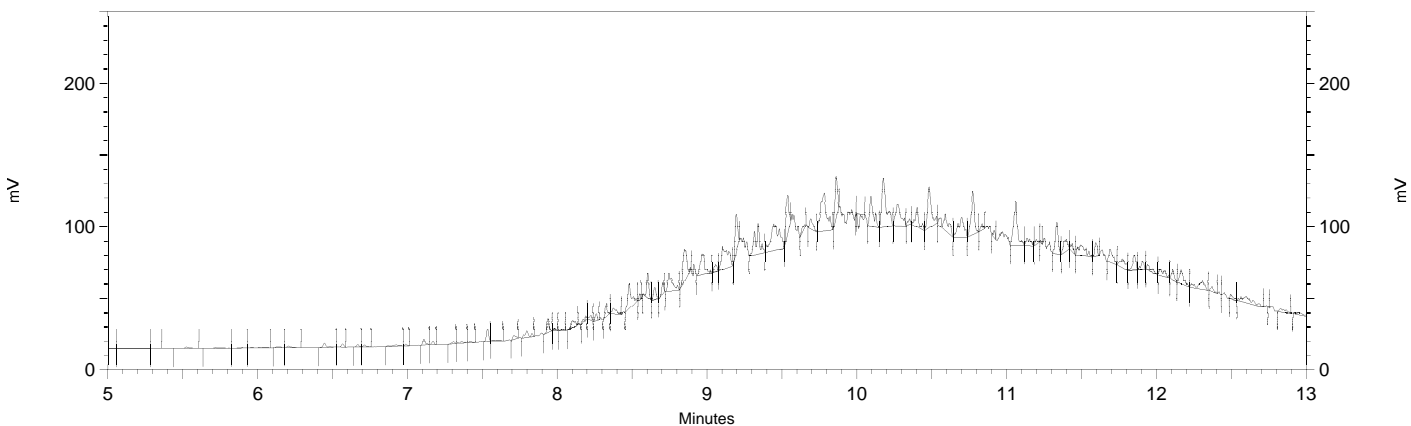

Sample Name: ical,s36949,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 6:14:23 PM
Analysis Date: 6/5/2018 12:15:56 PM
Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 6:14:23 PM
 Analysis Date: 6/5/2018 6:19:05 AM
 Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.362	2035	0.038
Hexacosane	10.093	37124	0.780



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

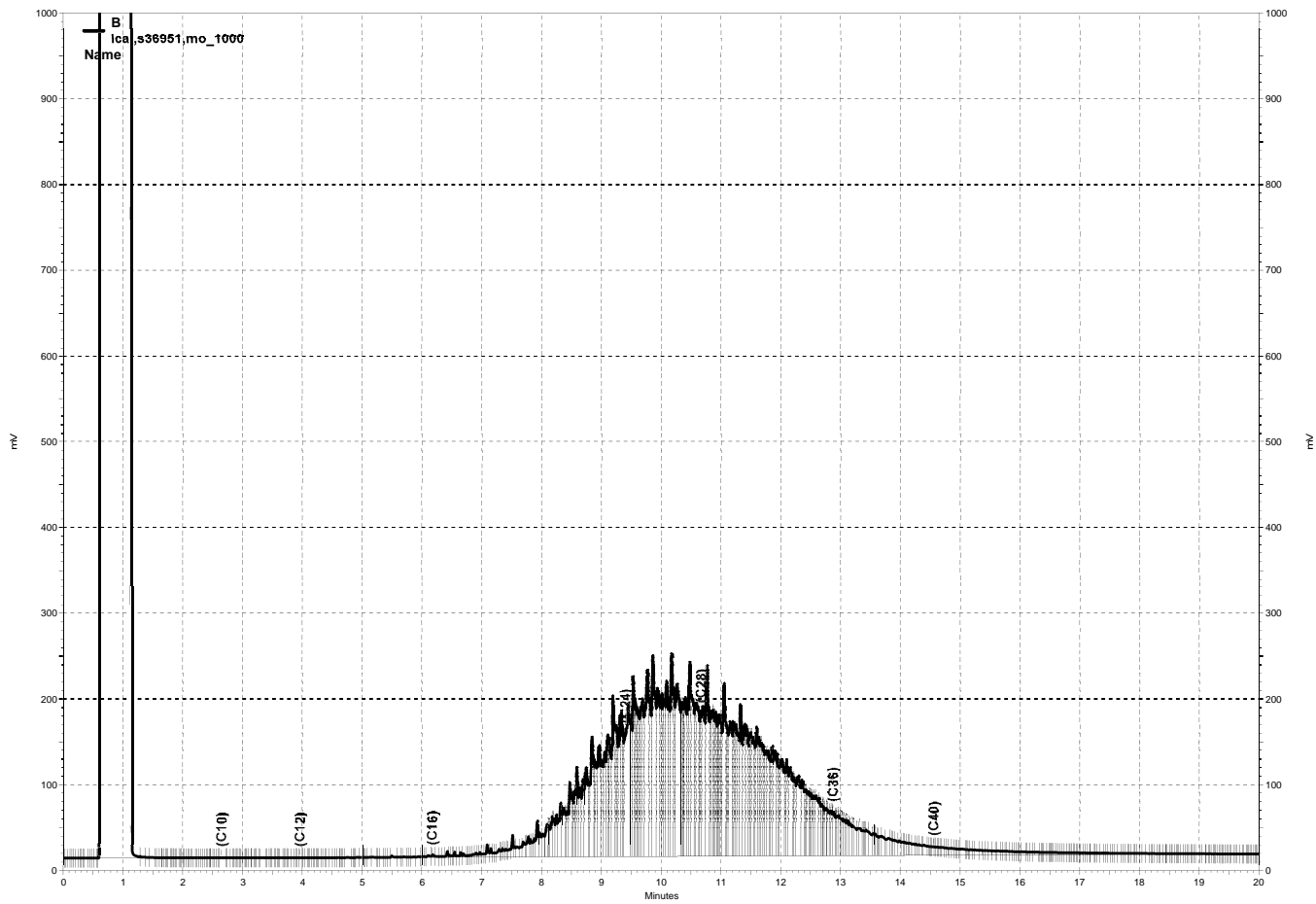
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019, B

Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 6:43:03 PM
 Analysis Date: 6/5/2018 12:16:03 PM
 Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	53946	0.000 CAL
DSL:10-22	3534533	0.000 CAL
DSL:10-24	9078625	0.000 CAL
DSL:10-28	22422824	0.000 CAL
DSL:12-24	9075008	0.000 CAL
DSL:12-28	22419208	0.000 CAL
DSL:16-24	9043366	0.000 CAL
MO:22-32	29370576	1000.000 CAL
MO:24-36	29772452	1000.000 CAL
MO:28-40	18770784	1000.000 CAL
BUNKC:10-40	39608420	0.000 CAL
BUNKC:12-40	39604804	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

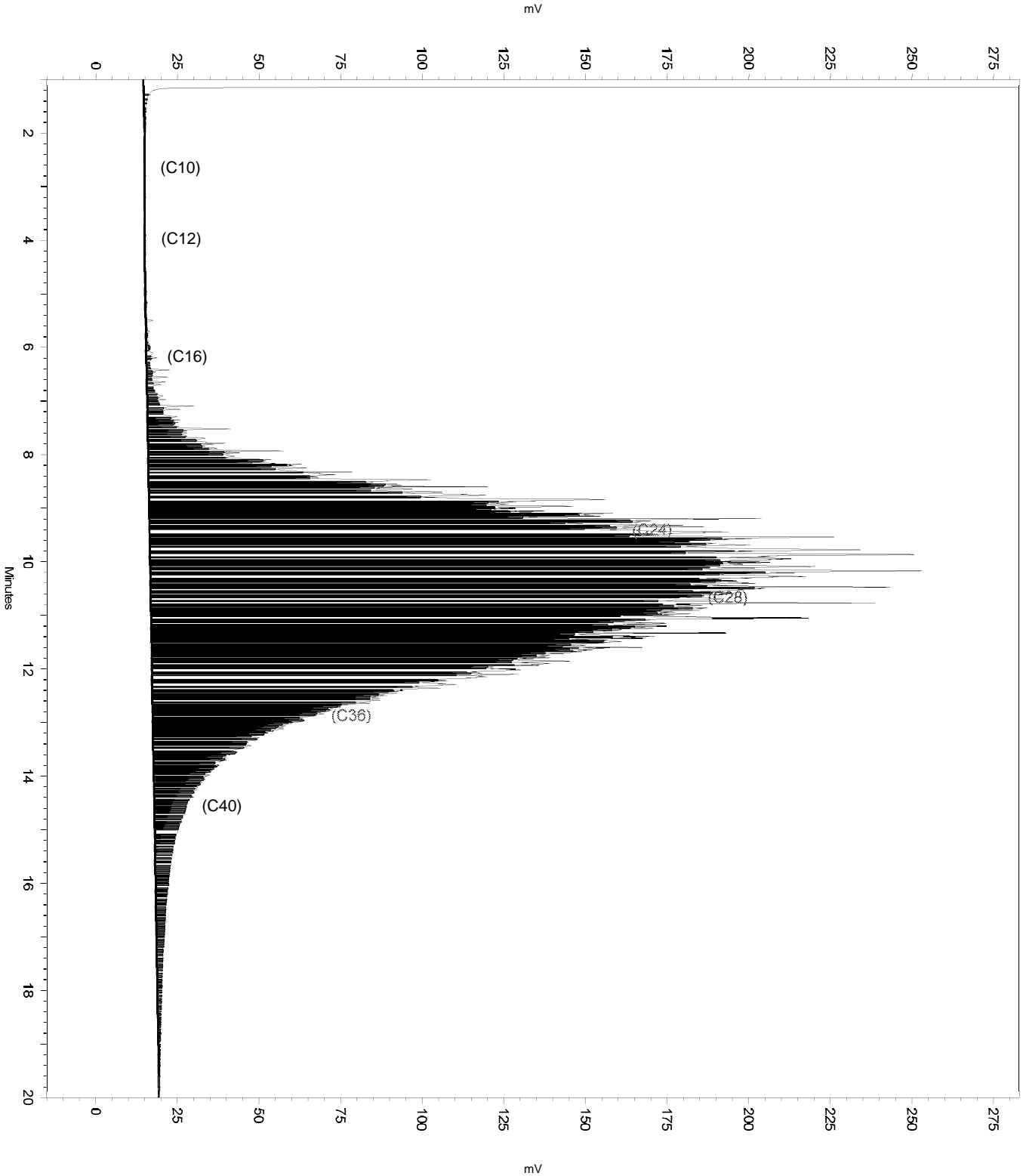
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0    0
Yes Threshold            0          0   10
Yes Force Peak Stop     2.27       0    0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        5.385     19.866    0
  
```

Sample Name: ical,s36951,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 6:43:03 PM
Analysis Date: 6/5/2018 12:16:03 PM
Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 6:43:03 PM
 Analysis Date: 6/5/2018 11:26:28 AM
 Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	35326	0.000 CAL
DSL:10-22	674215	0.000 CAL
DSL:10-24	1513475	0.000 CAL
DSL:10-28	4364998	0.000 CAL
DSL:12-24	1509858	0.000 CAL
DSL:12-28	4361381	0.000 CAL
DSL:16-24	1488976	0.000 CAL
MO:22-32	6786916	1000.000 CAL
MO:24-36	7205556	1000.000 CAL
MO:28-40	4754780	1000.000 CAL
BUNKC:10-40	8700792	0.000 CAL
BUNKC:12-40	8697175	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

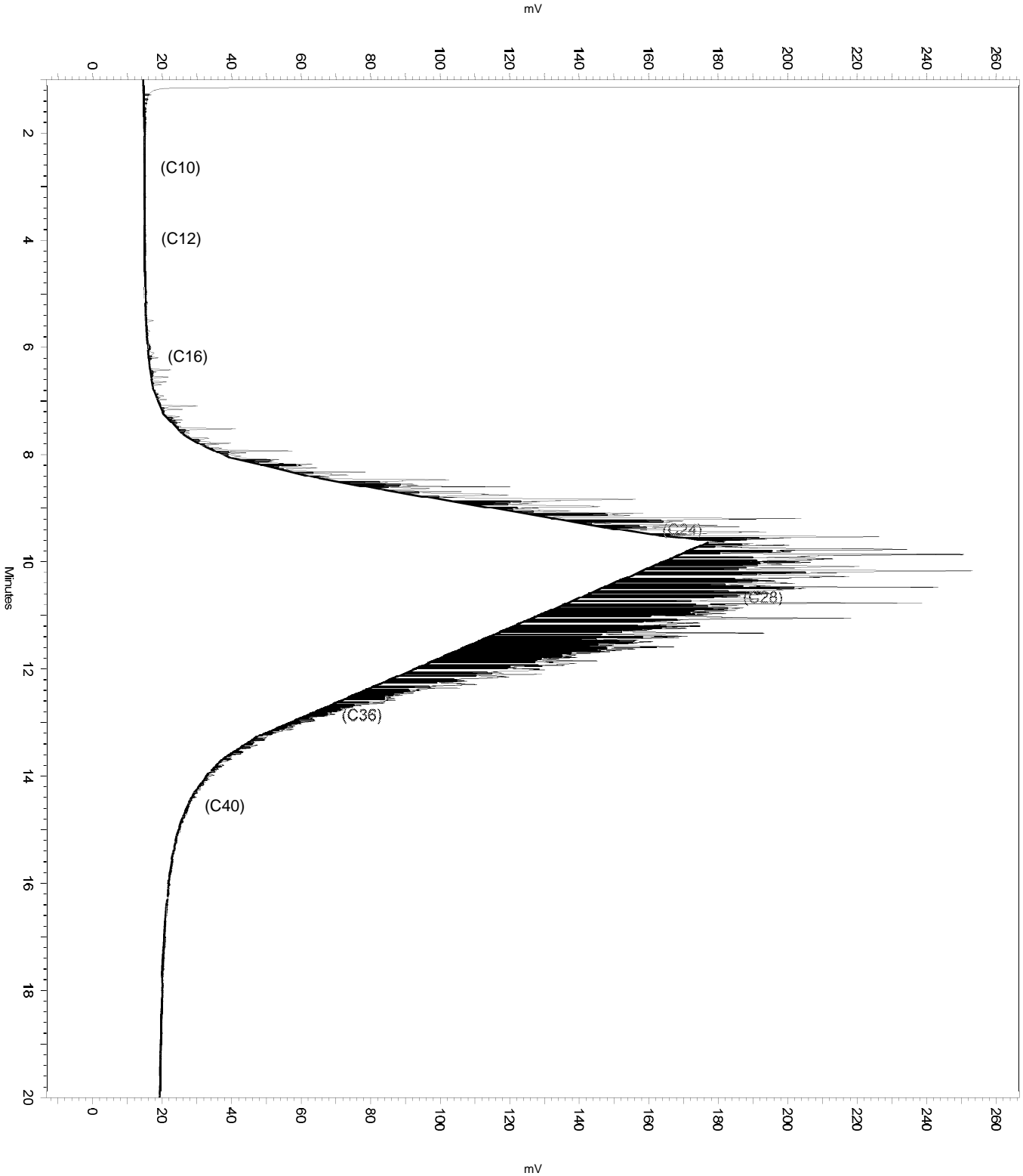
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold           0          0     10
Yes Force Peak Stop    2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

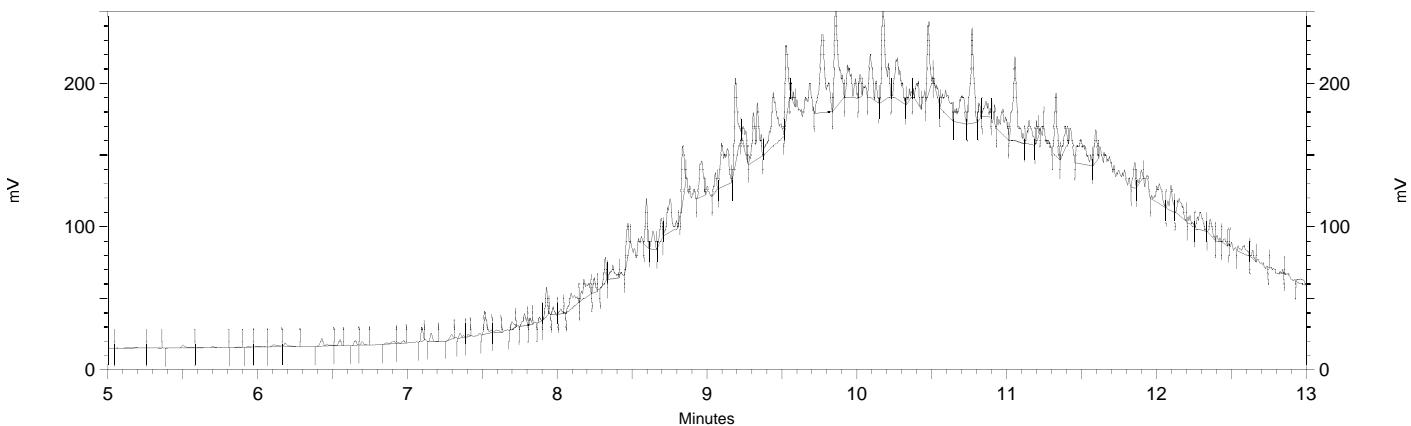
Sample Name: ical,s36951,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 6:43:03 PM
Analysis Date: 6/5/2018 11:26:28 AM
Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 6:43:03 PM
 Analysis Date: 6/5/2018 6:19:11 AM
 Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.347	4060	0.076
Hexacosane	10.092	60577	1.272



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

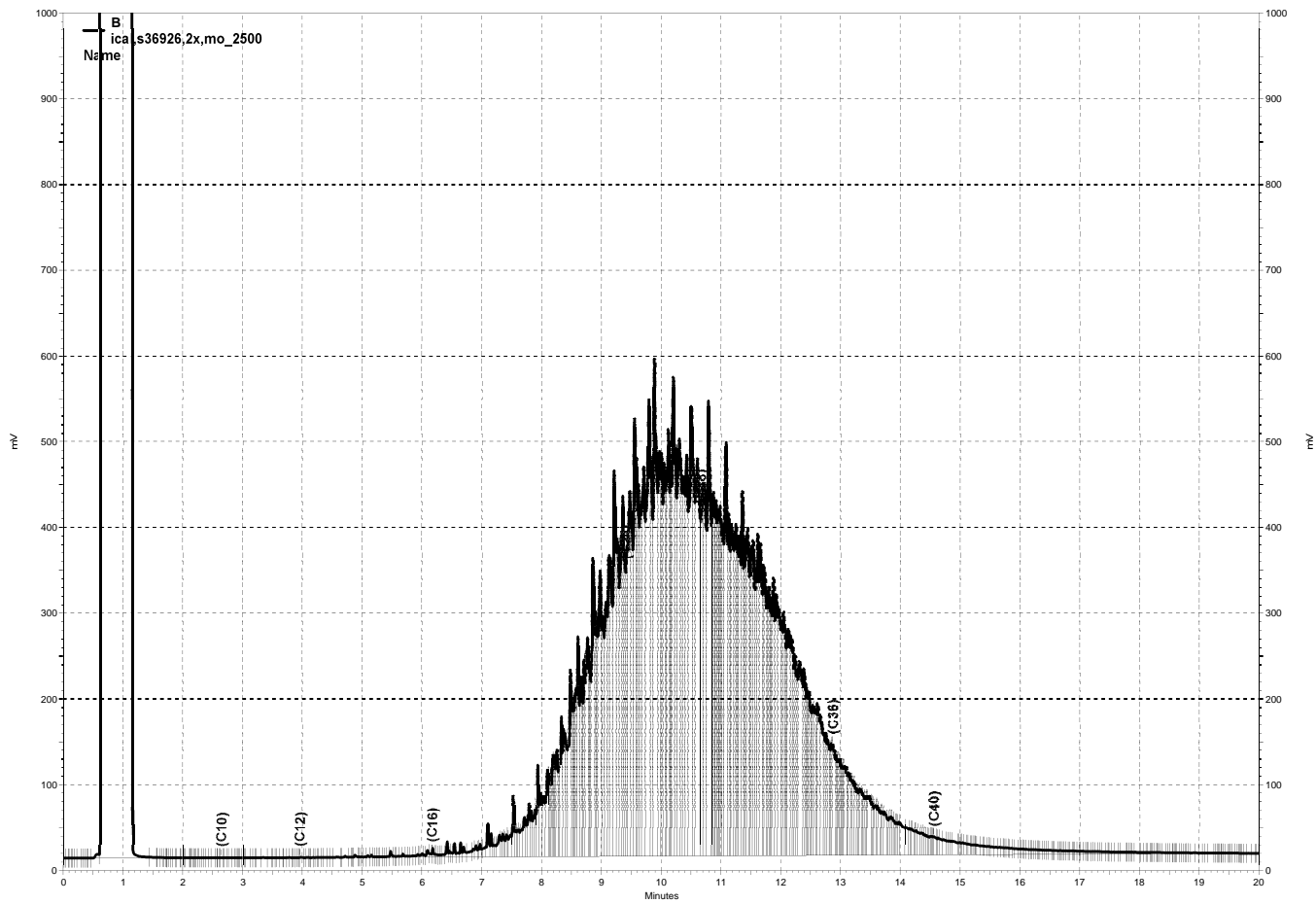
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020, B

Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 7:11:29 PM
 Analysis Date: 6/5/2018 12:16:09 PM
 Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	167307	0.000 CAL
DSL:10-22	9140323	0.000 CAL
DSL:10-24	22657598	0.000 CAL
DSL:10-28	55946296	0.000 CAL
DSL:12-24	22651702	0.000 CAL
DSL:12-28	55940400	0.000 CAL
DSL:16-24	22526546	0.000 CAL
MO:22-32	72824568	2500.000 CAL
MO:24-36	74829808	2500.000 CAL
MO:28-40	47259760	2500.000 CAL
BUNKC:10-40	98508376	0.000 CAL
BUNKC:12-40	98502488	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

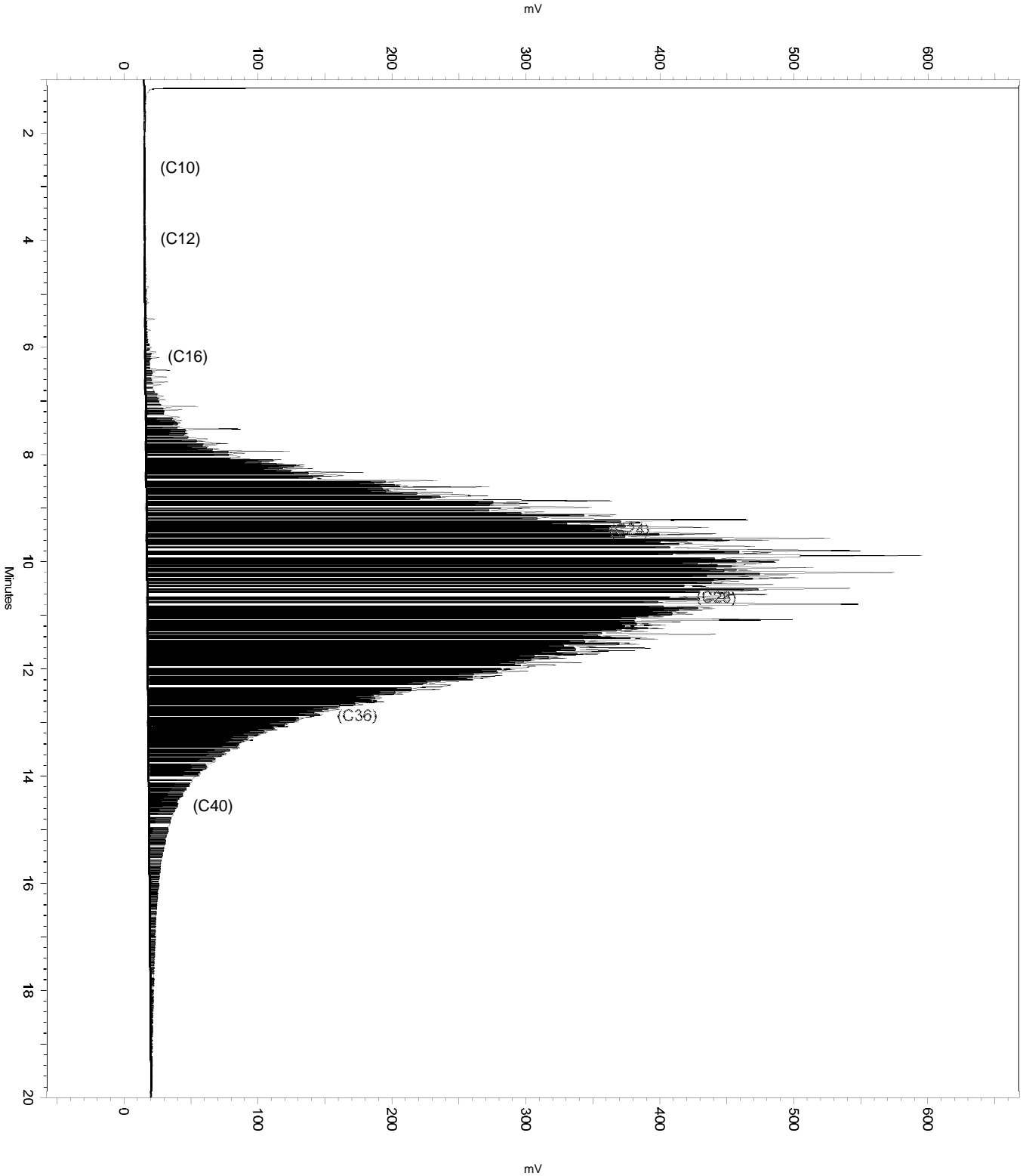
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold            0         0    10
Yes Force Peak Stop     2.27      0     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

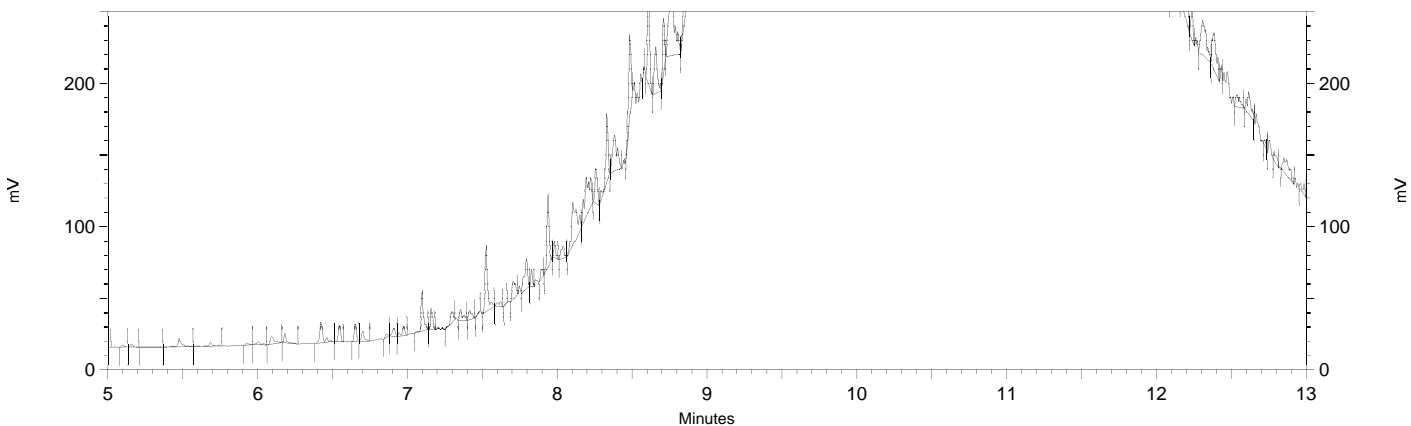
Sample Name: ical,s36926,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 7:11:29 PM
Analysis Date: 6/5/2018 12:16:09 PM
Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 7:11:29 PM
 Analysis Date: 6/5/2018 6:19:17 AM
 Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.355	12214	0.230
Hexacosane	10.117	121690	2.556



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

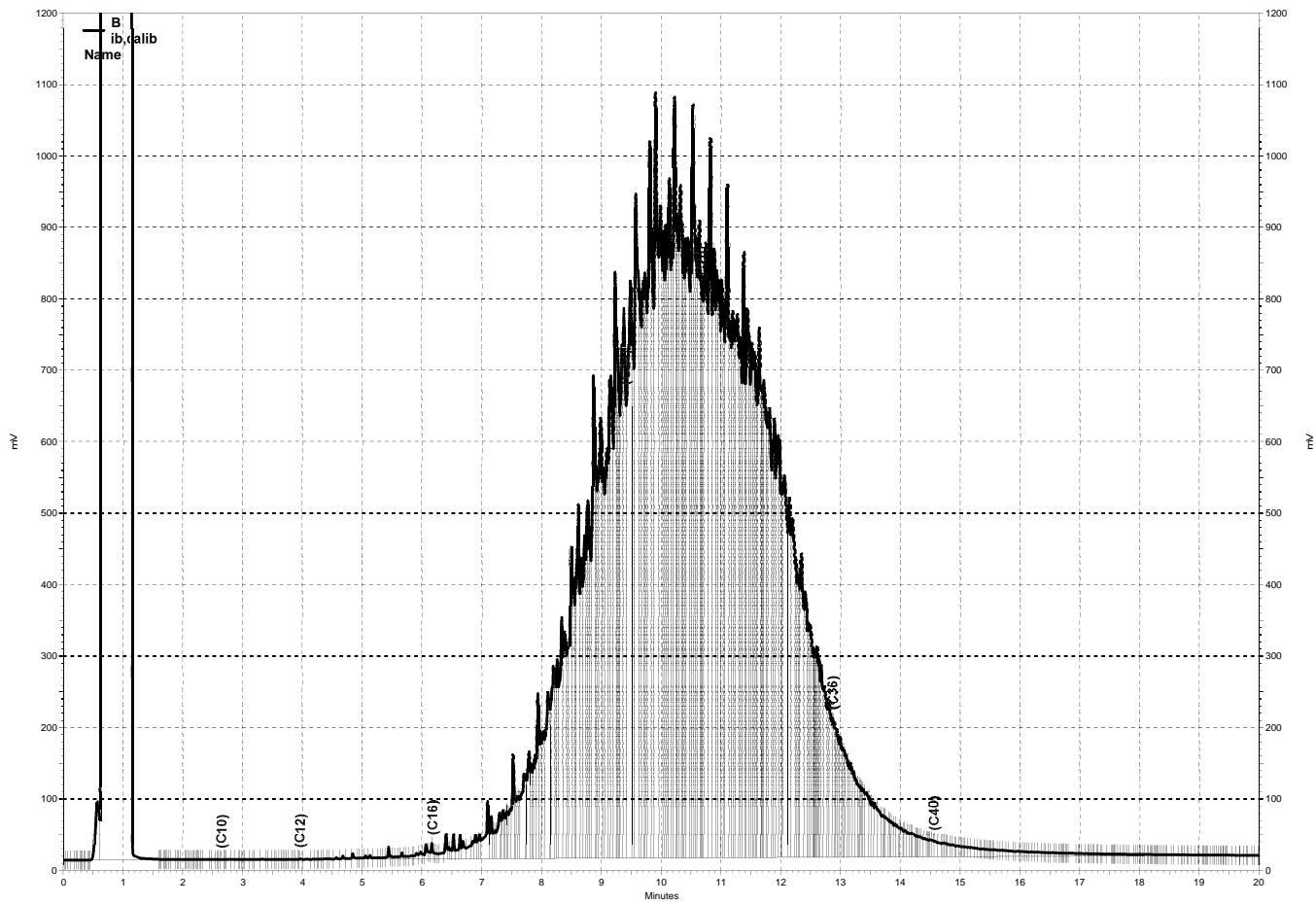
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0   0.2
Yes Threshold            0       0  100
Yes Integration Off      0       2    0
Yes Valley to Valley     0      20    0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021, B

Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 7:39:45 PM
 Analysis Date: 6/5/2018 12:16:16 PM
 Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	451077	0.000 CAL
DSL:10-22	20712352	0.000 CAL
DSL:10-24	43849408	0.000 CAL
DSL:10-28	112698432	0.000 CAL
DSL:12-24	43838096	0.000 CAL
DSL:12-28	112687120	0.000 CAL
DSL:16-24	43489680	0.000 CAL
MO:22-32	141955904	5000.000 CAL
MO:24-36	144132336	5000.000 CAL
MO:28-40	86378872	5000.000 CAL
BUNKC:10-40	190243840	0.000 CAL
BUNKC:12-40	190232544	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

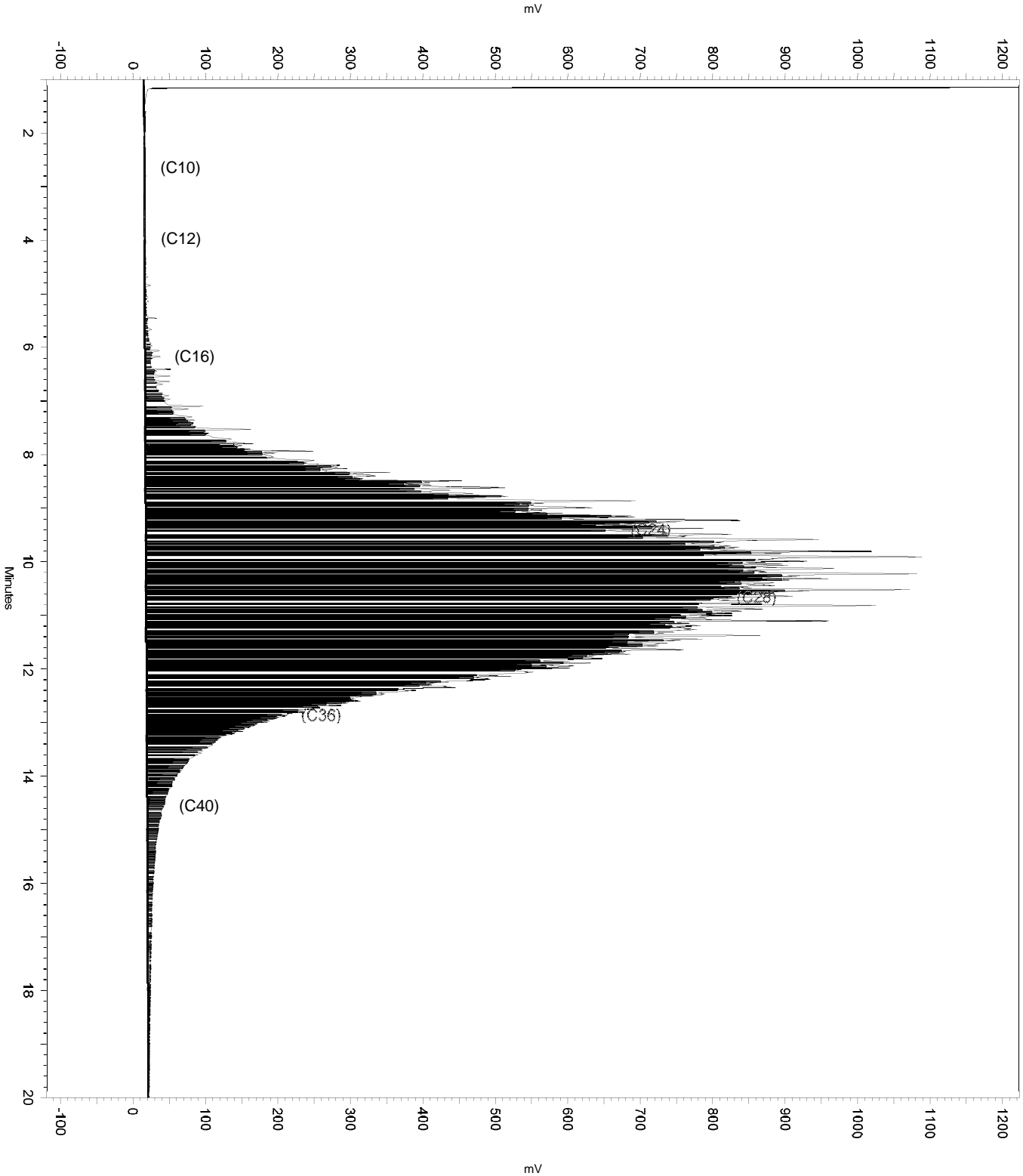
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop       19.47     19.92    0
  
```

Sample Name: ical,s36926,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 7:39:45 PM
Analysis Date: 6/5/2018 12:16:16 PM
Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 7:39:45 PM
 Analysis Date: 6/5/2018 12:13:11 PM
 Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	447092	0.000 CAL
DSL:10-22	20694438	0.000 CAL
DSL:10-24	43826324	0.000 CAL
DSL:10-28	112662240	0.000 CAL
DSL:12-24	43815012	0.000 CAL
DSL:12-28	112650928	0.000 CAL
DSL:16-24	43470052	0.000 CAL
MO:22-32	141924400	5000.000 CAL
MO:24-36	144091504	5000.000 CAL
MO:28-40	86324216	5000.000 CAL
BUNKC:10-40	190154928	0.000 CAL
BUNKC:12-40	190143632	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

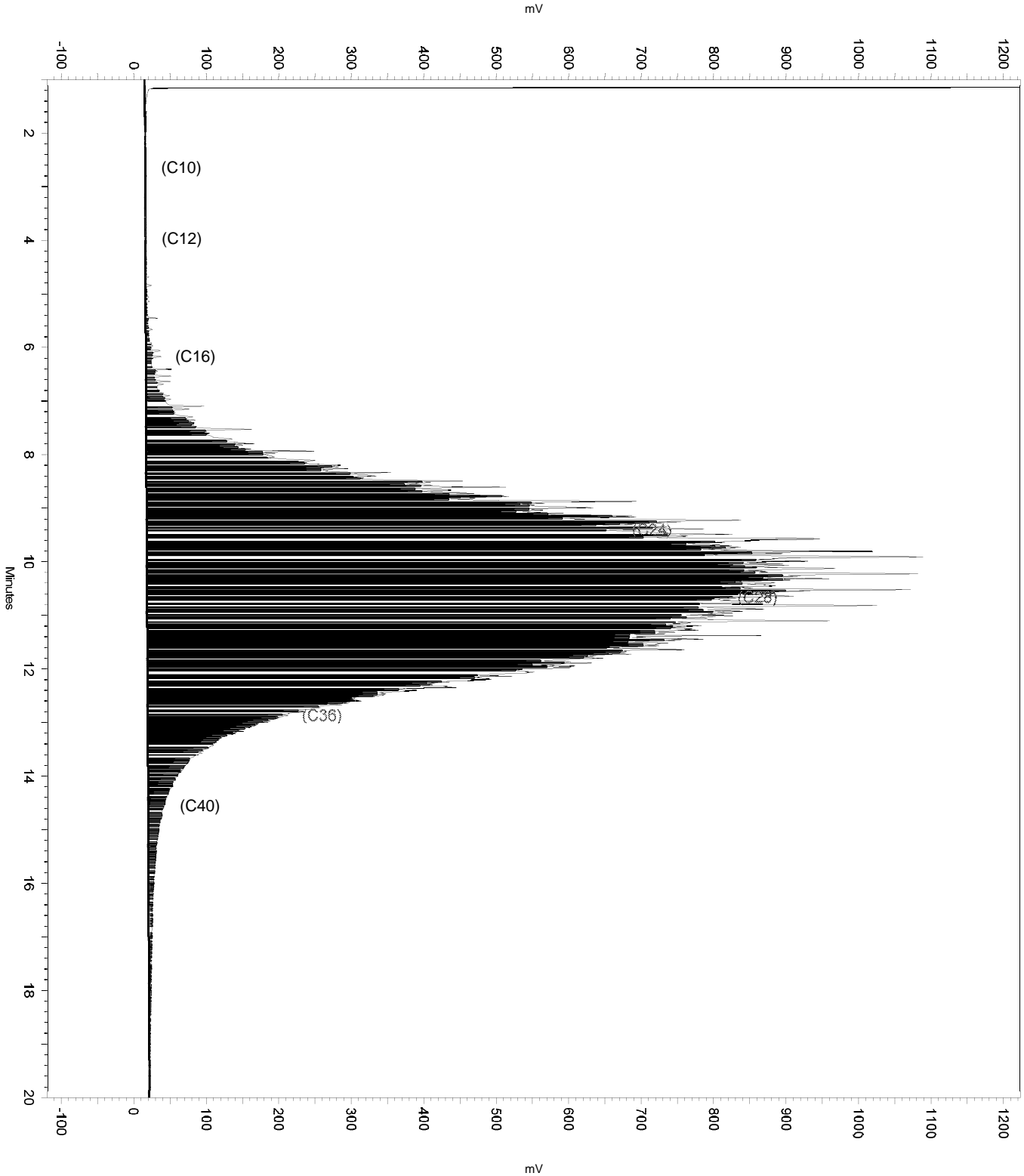
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

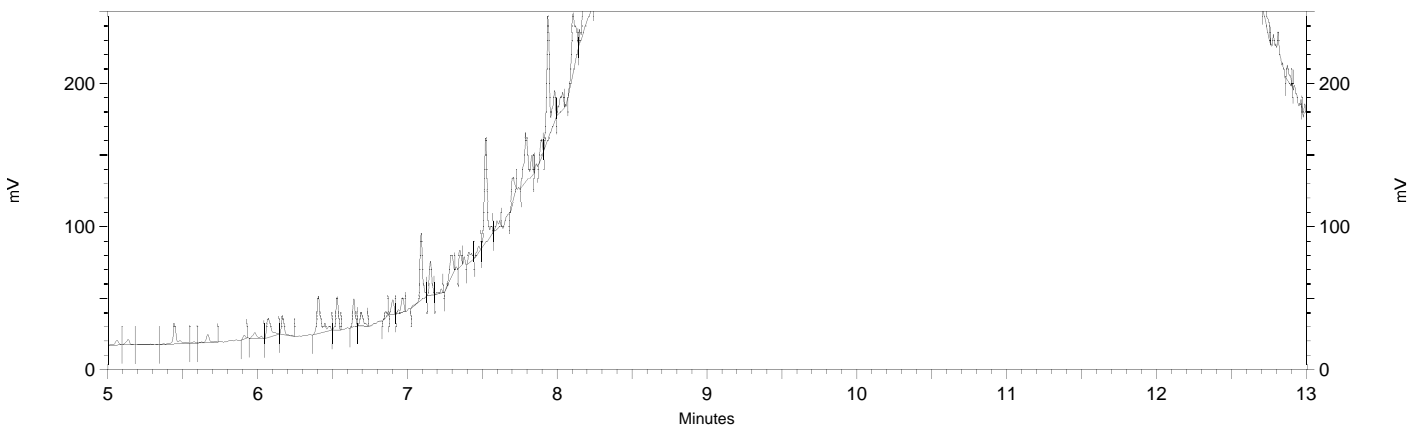

Sample Name: ical,s36926,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 7:39:45 PM
Analysis Date: 6/5/2018 12:13:11 PM
Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 7:39:45 PM
 Analysis Date: 6/5/2018 6:19:23 AM
 Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.348	11902	0.224
Hexacosane	10.073	59233	1.244



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021				
None				

ENTHALPY INITIAL CALIBRATION FOR 301571 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228263897001
 Units : mg/L

Name : HEXOTP_183
 Date : 03-JUL-2018 00:37
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	183_033	228263897033	HEX OTP_2.5	03-JUL-2018 00:37	S36499 (2X)
L2	183_034	228263897034	HEX OTP_5	03-JUL-2018 01:06	S36499
L3	183_035	228263897035	HEX OTP_10	03-JUL-2018 01:34	S36500
L4	183_036	228263897036	HEX OTP_25	03-JUL-2018 02:03	S36501
L5	183_037	228263897037	HEX OTP_50	03-JUL-2018 02:31	S36502
L6	183_038	228263897038	HEX OTP_100	03-JUL-2018 03:00	S36503

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	56266	54969	58095	56045	53979	52579	AVRG		1.81E-5		55322	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	2	5.0000	-1	10.000	5	25.000	1	50.000	-2	100.00	-5

WA1 07/03/18 : Corrected automatically drawn baseline in all levels.

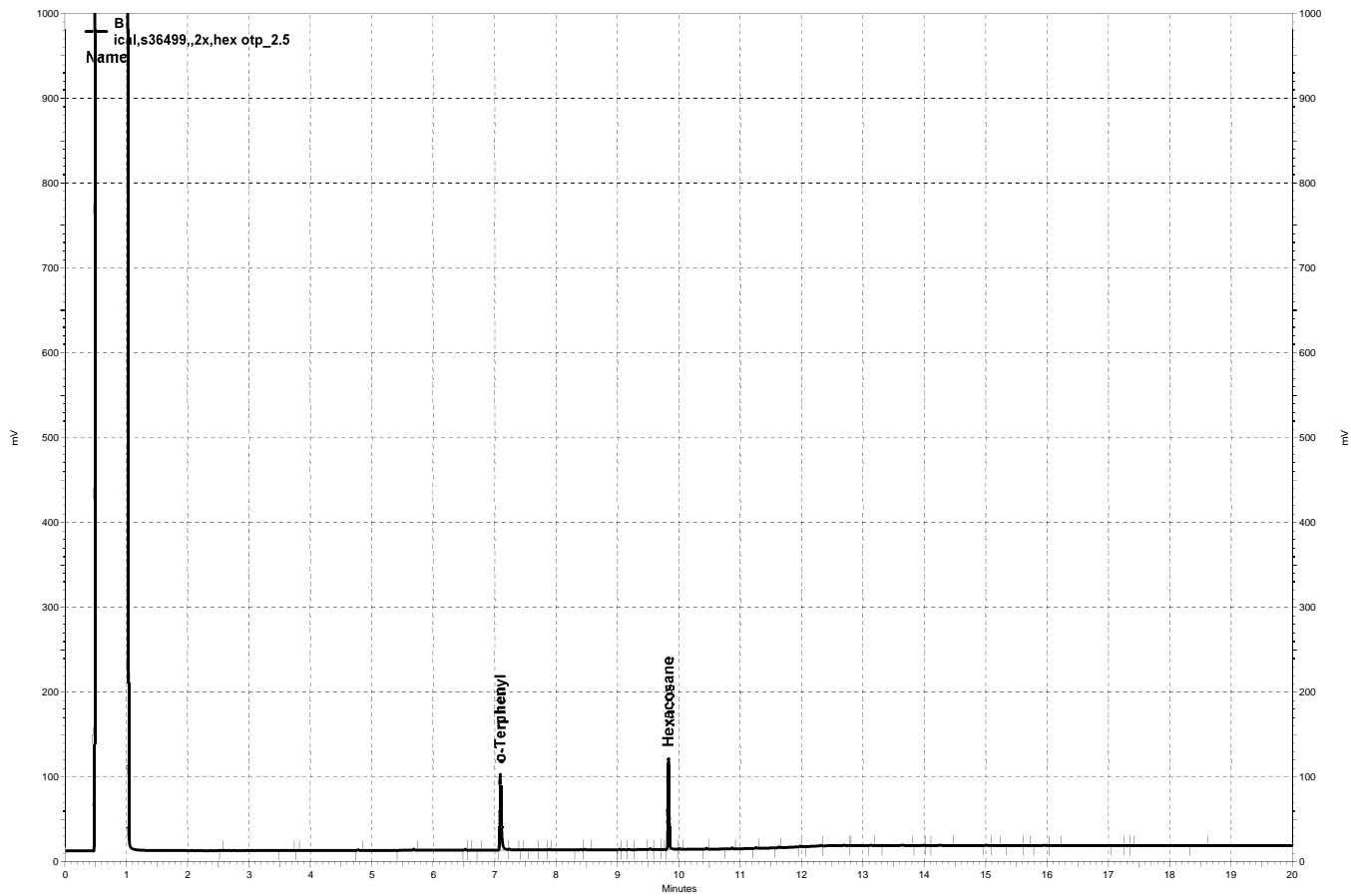
Analyst: WA1

Date: 07/03/18

Reviewer: TKM

Date: 07/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

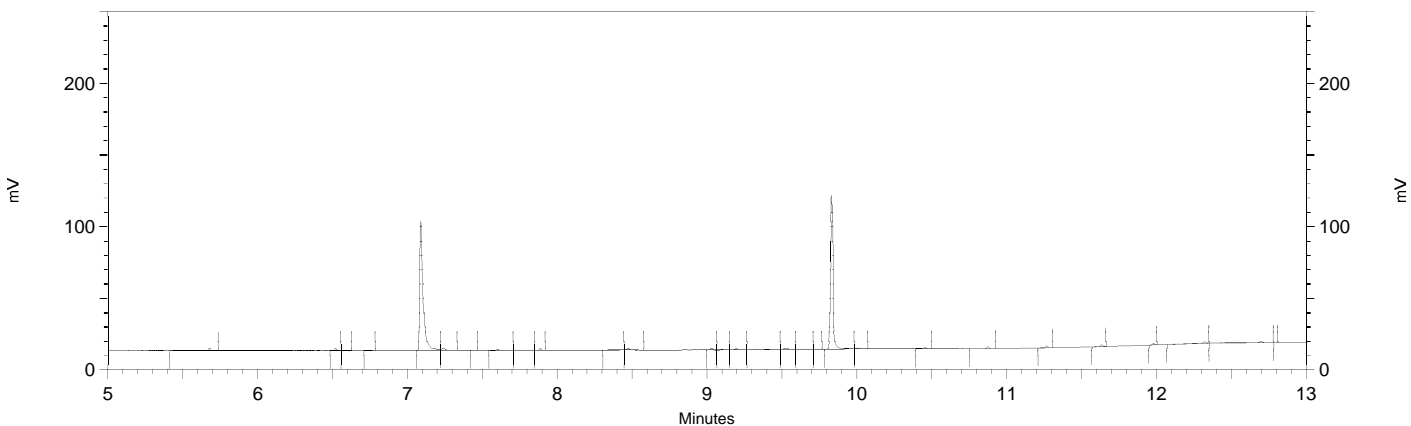


\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b033, B

Sample Name: ical,s36499,,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b033
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 12:37:59 AM
 Analysis Date: 7/3/2018 10:57:43 AM
 Instrument: GC14B Vial: 33 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.092	140665	2.547
Hexacosane	9.830	127194	2.546



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

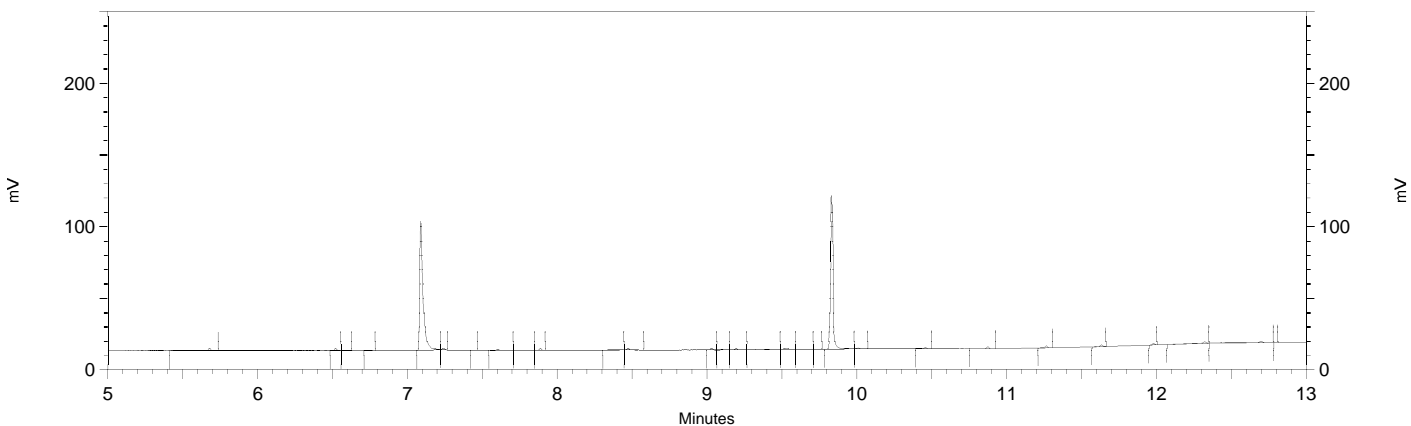
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b033

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	7.06	7.332	0

Sample Name: ical,s36499,,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b033
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 12:37:59 AM
 Analysis Date: 7/3/2018 10:57:33 AM
 Instrument: GC14B Vial: 33 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.092	138988	2.500 CAL
Hexacosane	9.830	127194	2.500 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

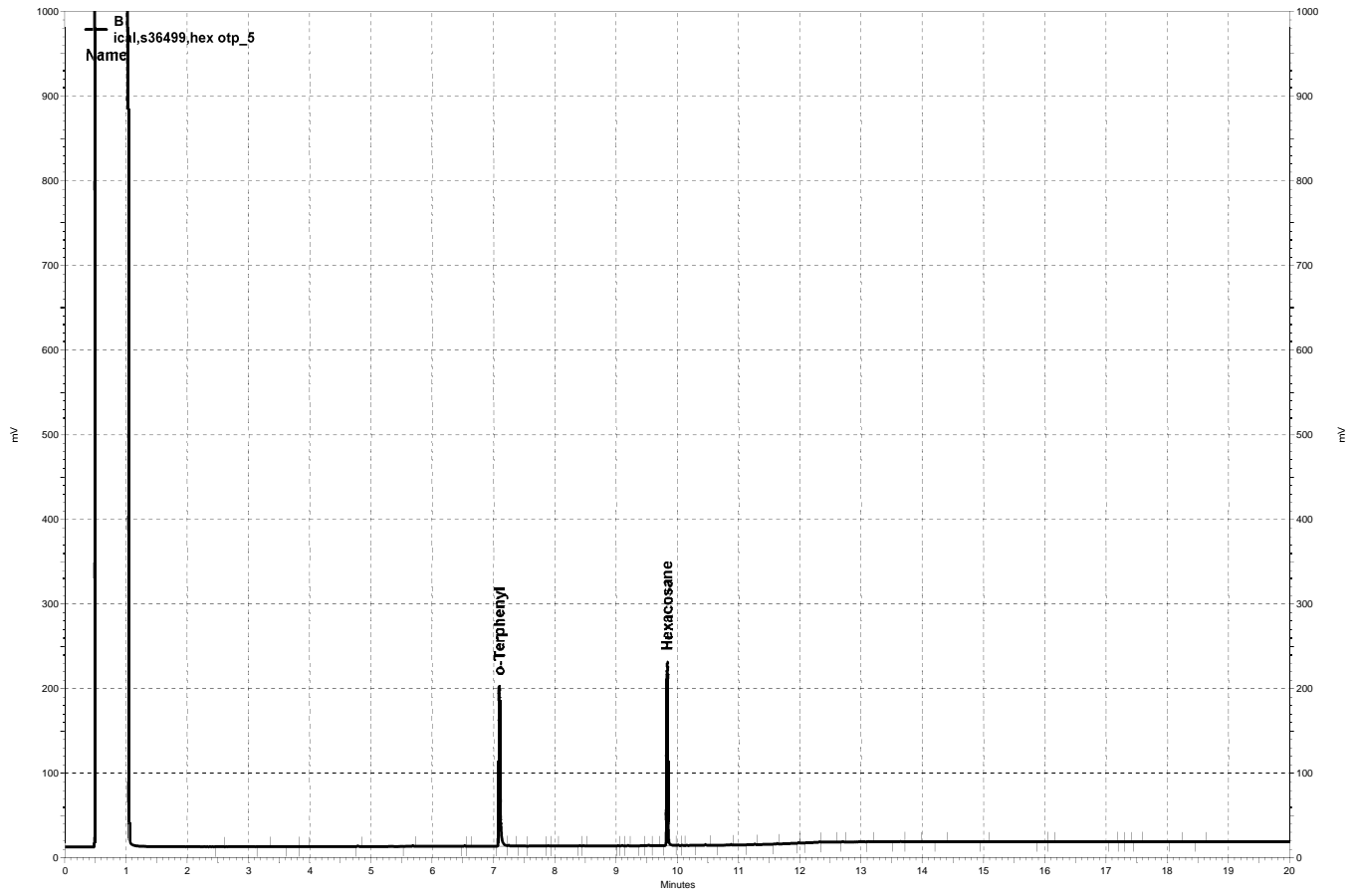
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b033
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

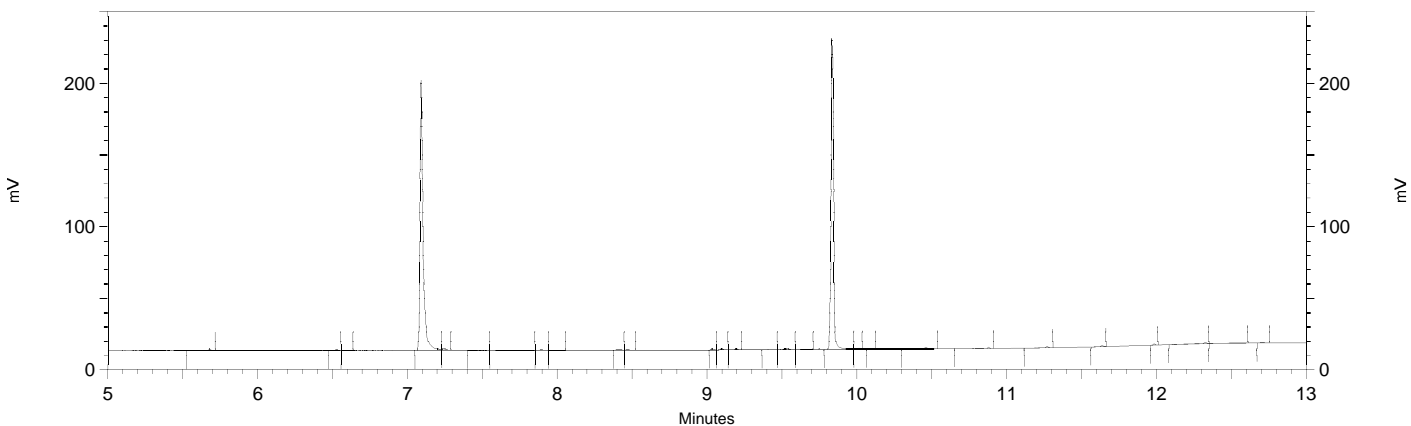


\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b034, B

Sample Name: ical,s36499,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b034
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 1:06:31 AM
 Analysis Date: 7/3/2018 10:58:19 AM
 Instrument: GC14B Vial: 34 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.093	274847	4.976
Hexacosane	9.835	249057	4.986



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

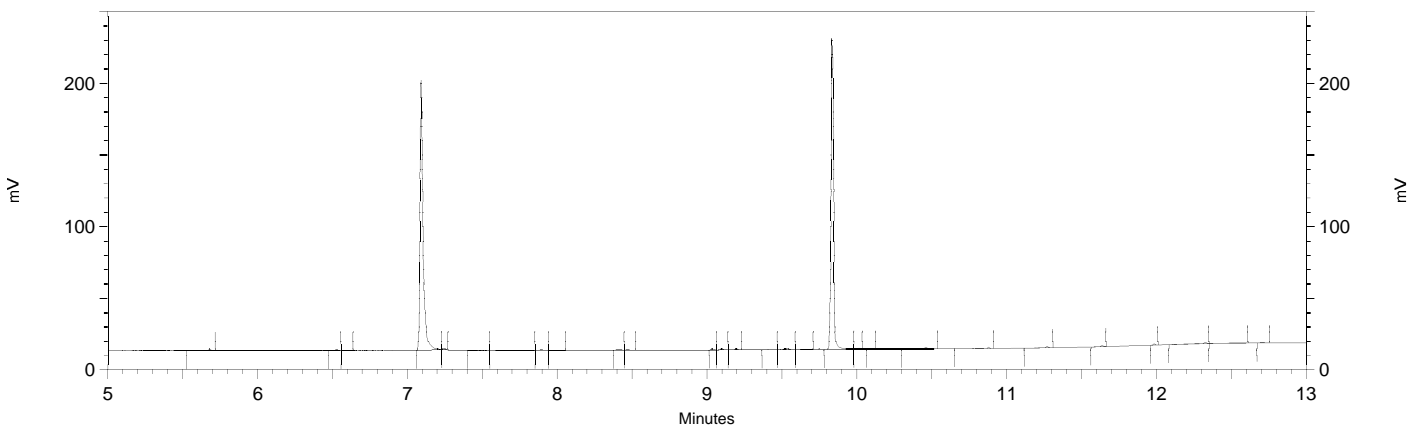
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b034

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	7.05	7.291	0

Sample Name: ical,s36499,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b034
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 1:06:31 AM
 Analysis Date: 7/3/2018 10:58:10 AM
 Instrument: GC14B Vial: 34 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.093	273051	4.943
Hexacosane	9.835	249057	4.986



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

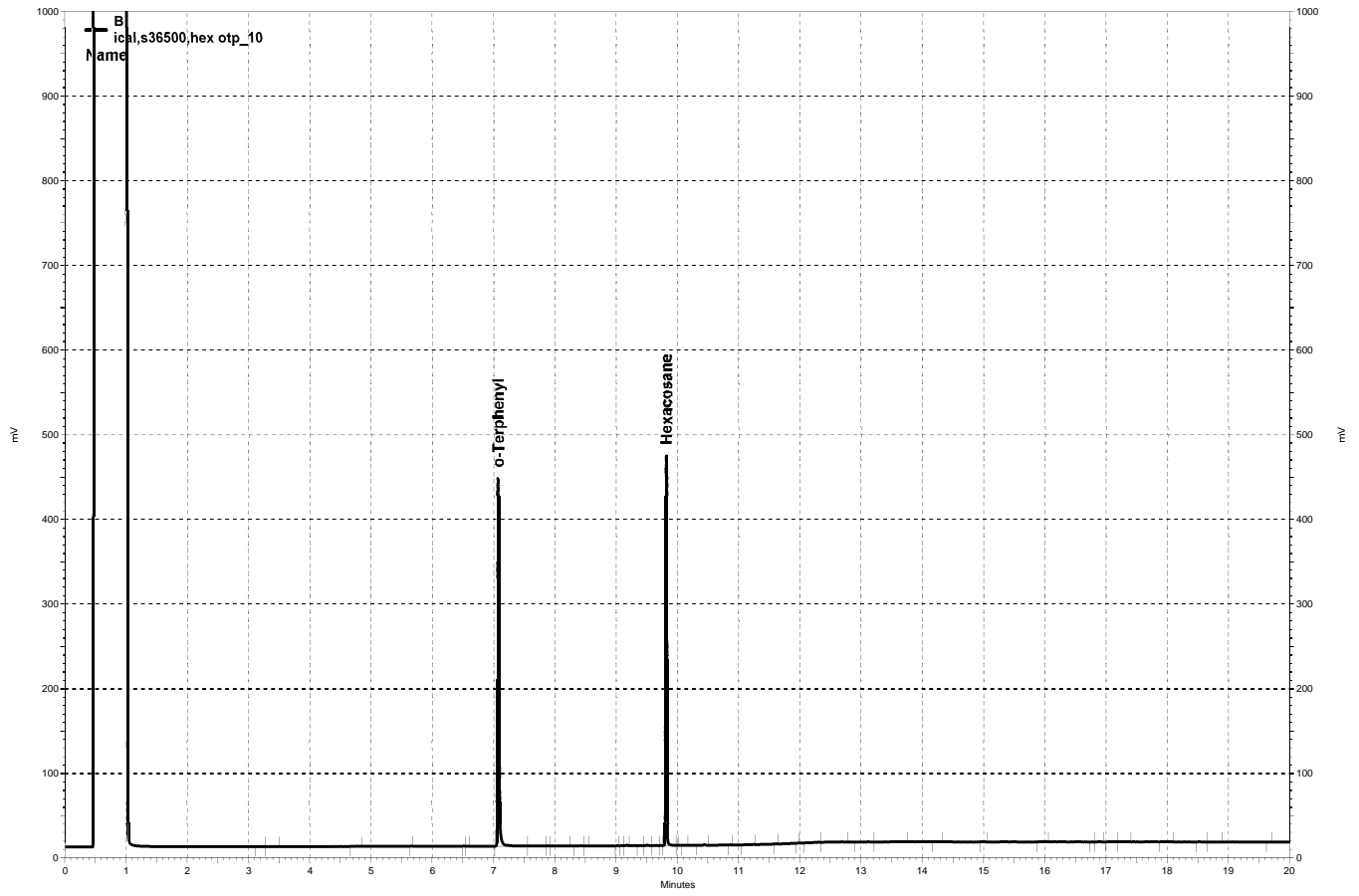
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b034

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

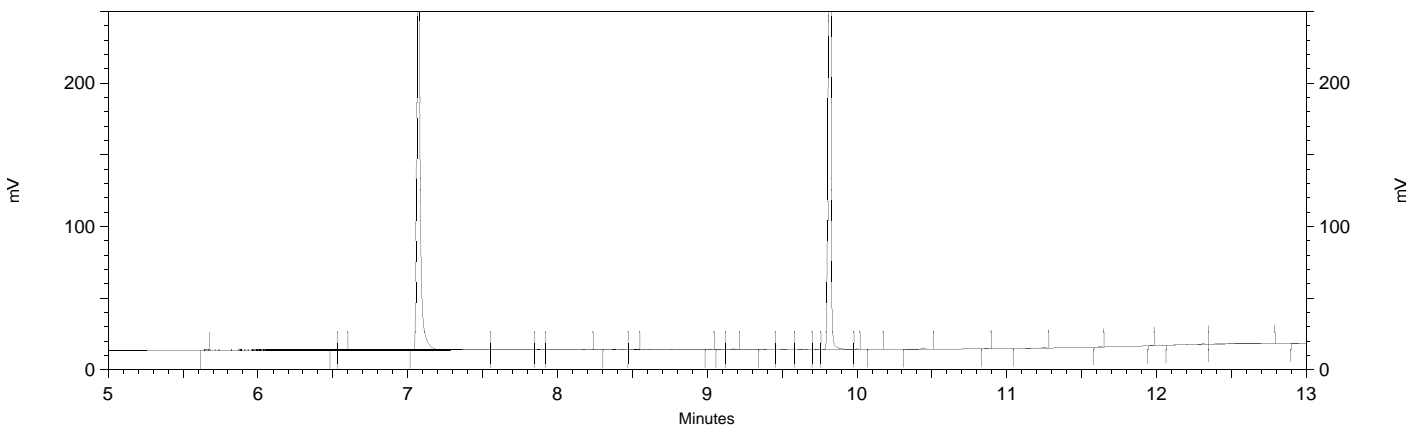


\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b035, B

Sample Name: ical,s36500,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b035
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr180.met
 Run Date: 7/3/2018 1:34:56 AM
 Analysis Date: 7/3/2018 1:55:04 AM
 Instrument: GC14B Vial: 35 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.073	580954	10.930
Hexacosane	9.820	514655	10.808



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

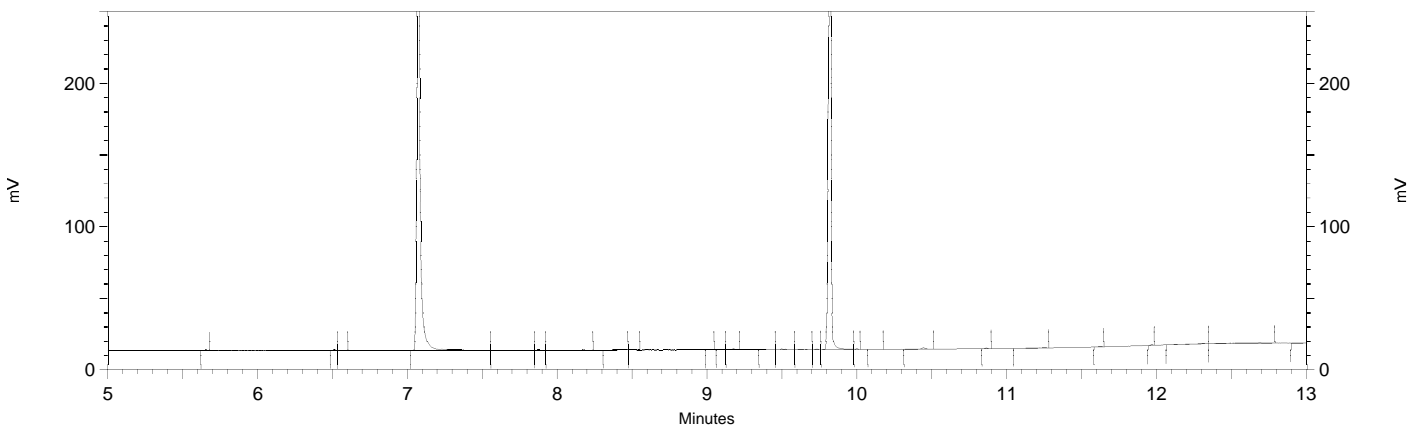
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\183b035_5A2E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36500,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b035
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 1:34:56 AM
 Analysis Date: 7/3/2018 10:46:50 AM
 Instrument: GC14B Vial: 35 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.073	580954	10.536
Hexacosane	9.820	515319	10.320



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

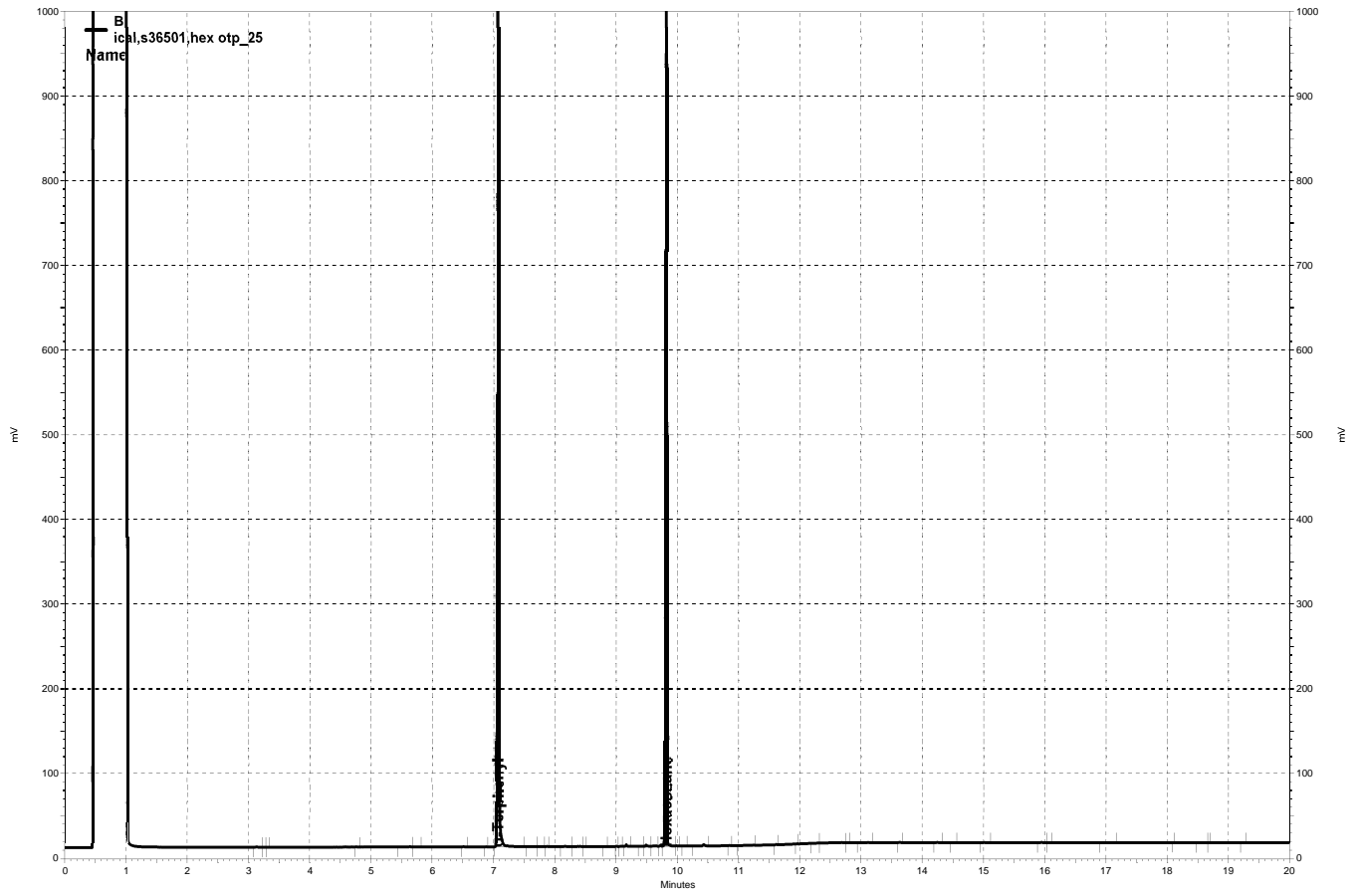
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b035

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	9.758	10.021	0

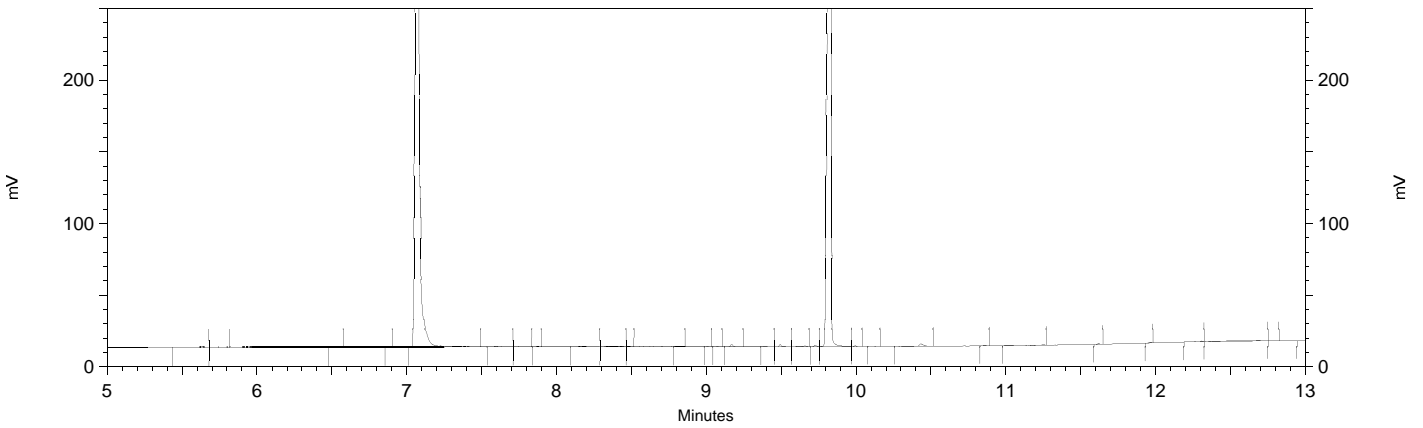


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b036, B

Sample Name: ical,s36501,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b036
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr180.met
 Run Date: 7/3/2018 2:03:26 AM
 Analysis Date: 7/3/2018 2:23:35 AM
 Instrument: GC14B Vial: 36 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.075	1401114	26.362
Hexacosane	9.823	1243722	26.119



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

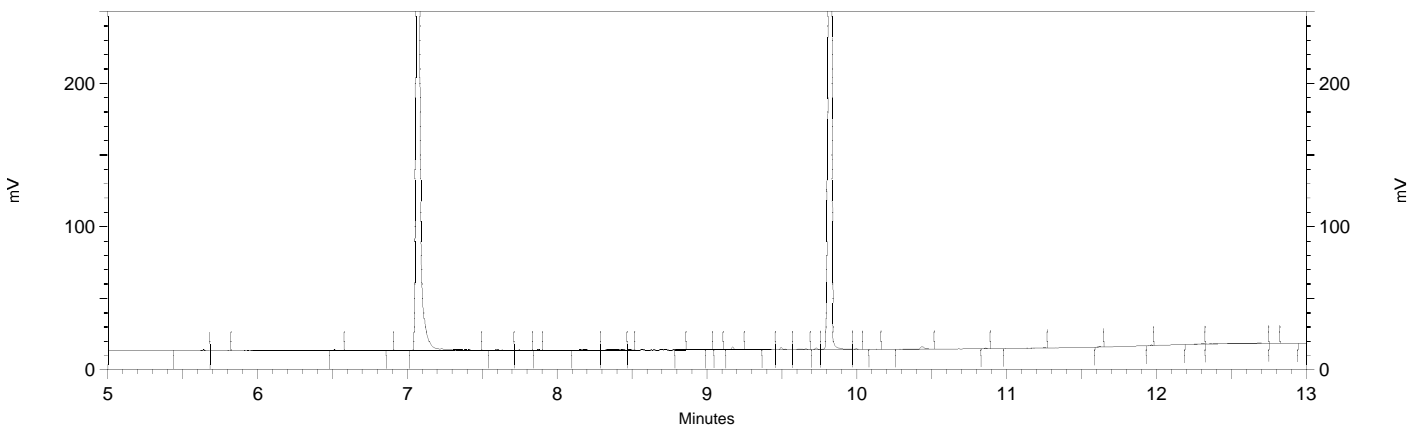
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\183b036_5A2F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36501,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b036
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 2:03:26 AM
 Analysis Date: 7/3/2018 10:47:05 AM
 Instrument: GC14B Vial: 36 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.075	1401114	25.430
Hexacosane	9.823	1244564	24.922



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

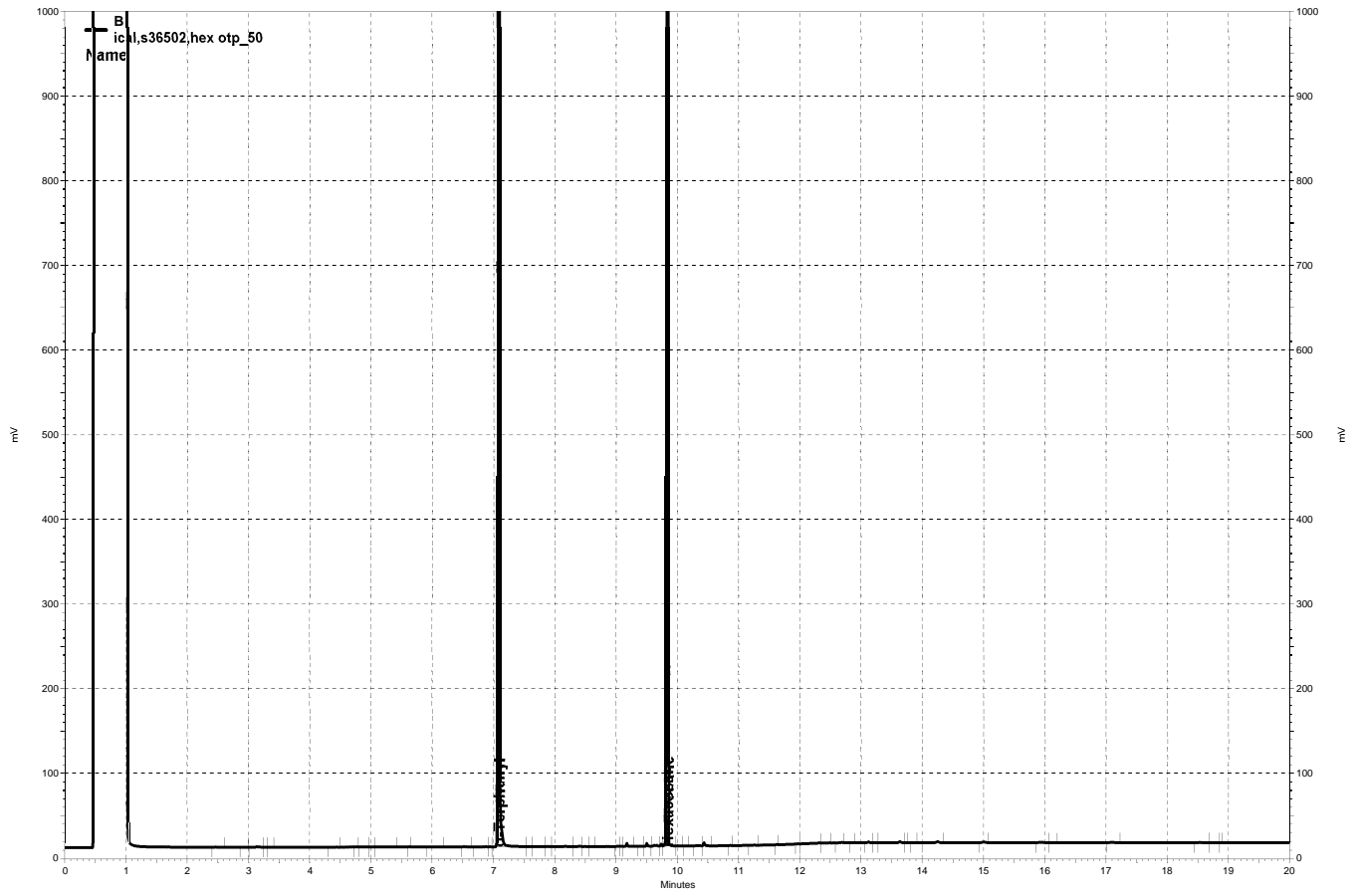
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	9.697	10.037	0

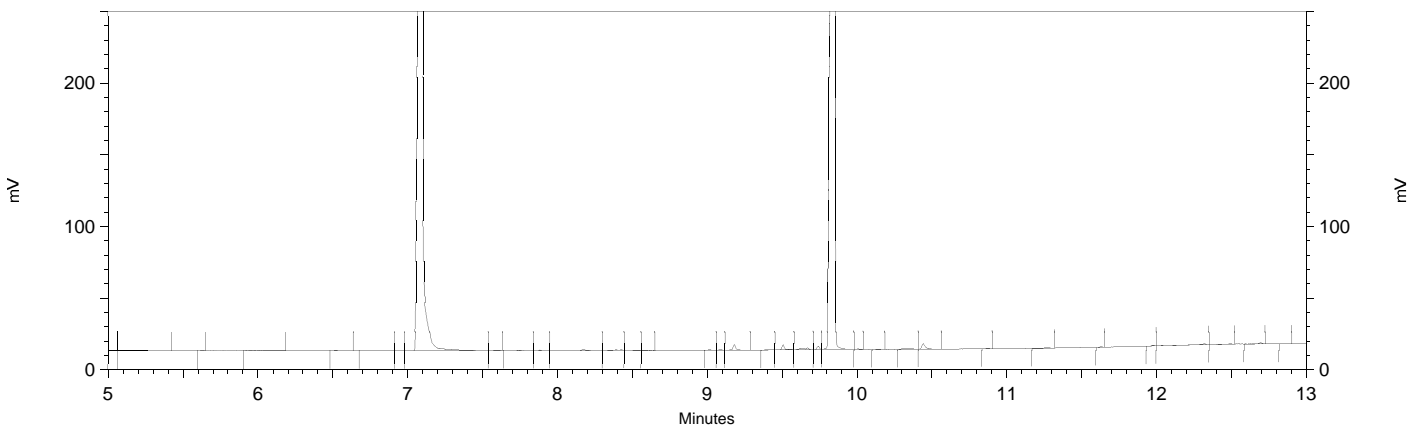


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b037, B

Sample Name: ical,s36502,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b037
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr180.met
 Run Date: 7/3/2018 2:31:55 AM
 Analysis Date: 7/3/2018 2:52:04 AM
 Instrument: GC14B Vial: 37 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.093	2698967	50.780
Hexacosane	9.848	2460298	51.669



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

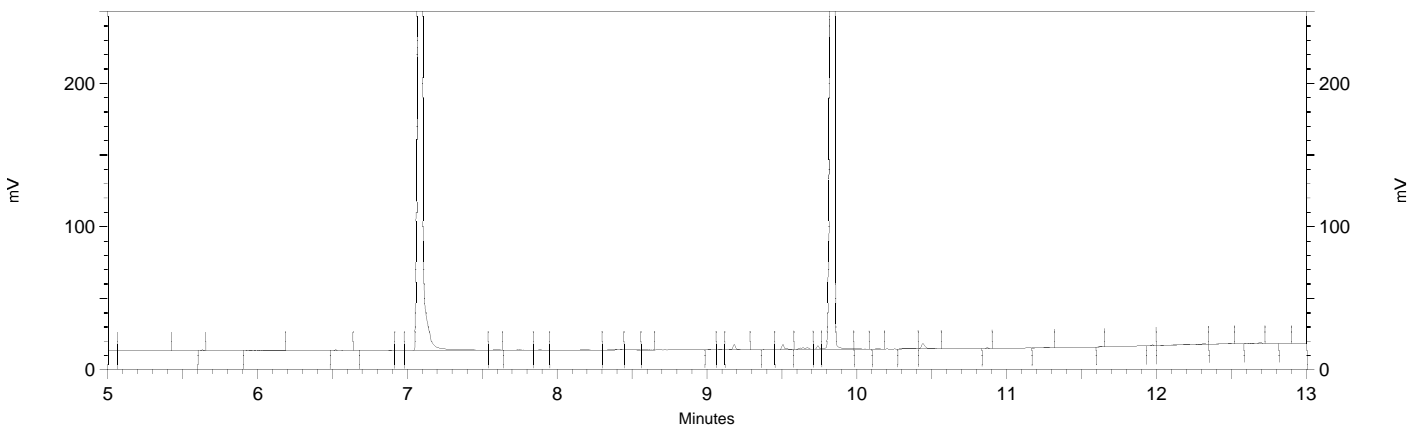
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\183b037_5A30.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36502,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b037
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 2:31:55 AM
 Analysis Date: 7/3/2018 10:45:49 AM
 Instrument: GC14B Vial: 37 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.093	2698967	41.919
Hexacosane	9.848	2461909	42.351



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

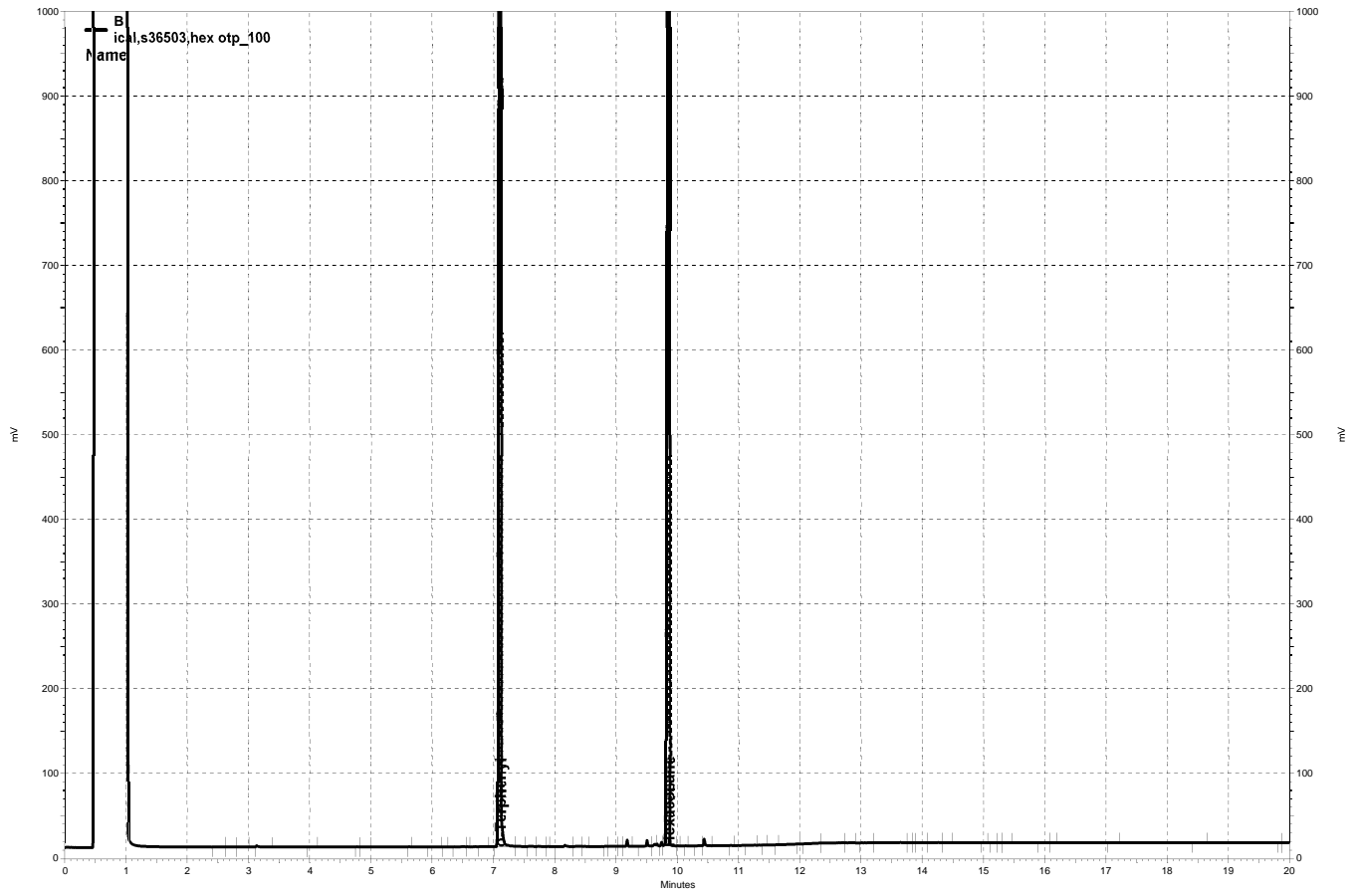
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b037

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	9.575	10.081	0

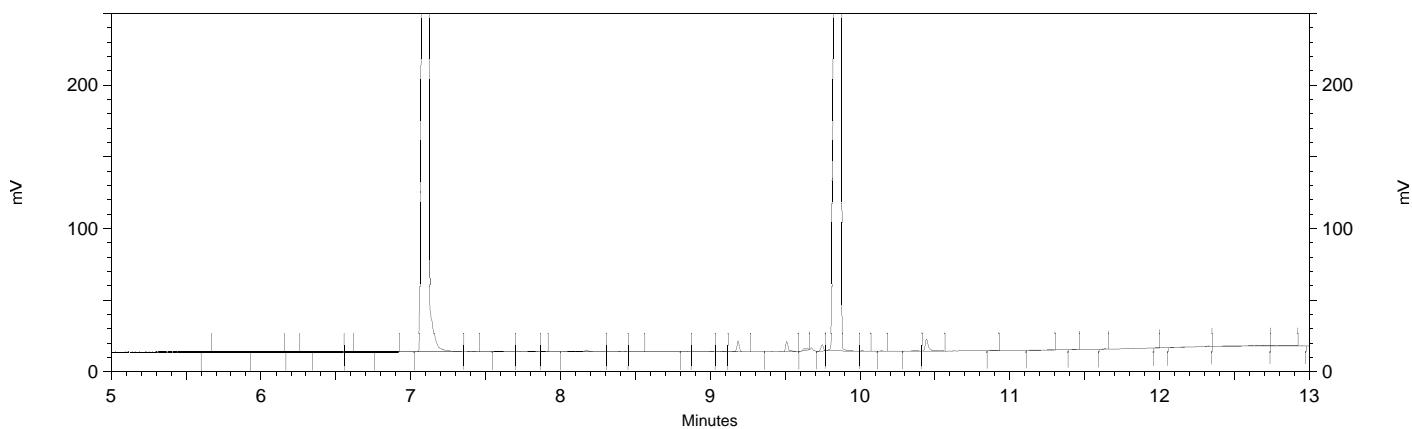


\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b038, B

Sample Name: ical,s36503,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b038
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr180.met
 Run Date: 7/3/2018 3:00:20 AM
 Analysis Date: 7/3/2018 3:20:30 AM
 Instrument: GC14B Vial: 38 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.117	5254690	98.865
Hexacosane	9.868	4834020	101.519



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

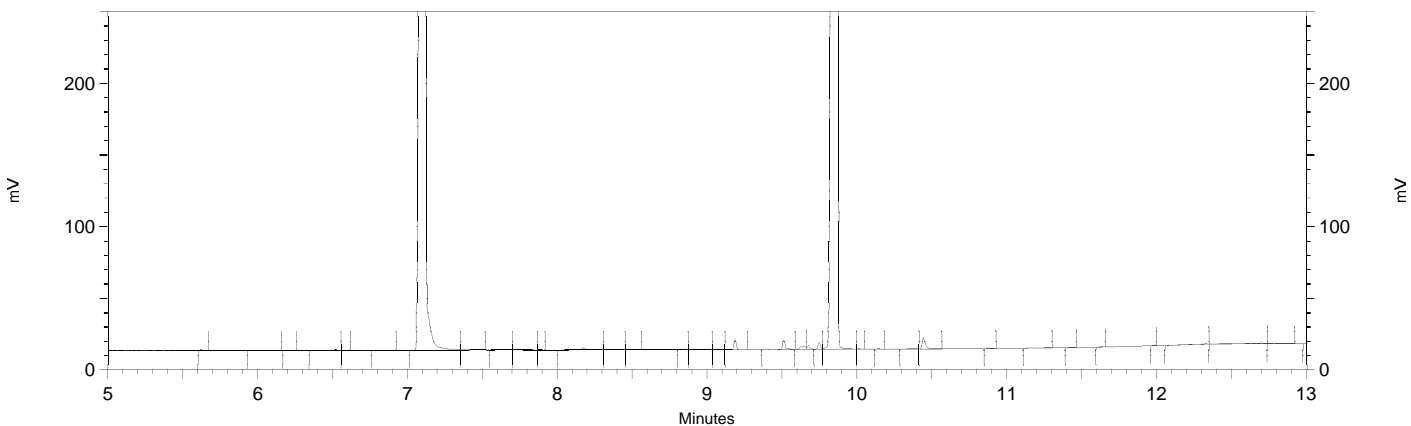
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\183b038_5A31.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36503,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b038
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 3:00:20 AM
 Analysis Date: 7/3/2018 10:46:10 AM
 Instrument: GC14B Vial: 38 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.117	5257892	95.346
Hexacosane	9.868	4837000	96.918



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b038

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	7.013	7.516	0
Yes	Manual Baseline	9.582	10.046	0

Carbon Marker Run

Inst : GC14B
 Seqnum : 228276782022
 Standards: S36439

Run Name : C8-C40
 File : 193_022

IDF : 1.0
 Time : 12-JUL-2018 05:30

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	2.327	+/- 4.5s (0.075m)	2.252 - 2.402
C12 - n-Dodecane	B	3.648	+/- 4.5s (0.075m)	3.573 - 3.723
C14 - n-Tetradecane	B	4.813	+/- 4.5s (0.075m)	4.738 - 4.888
C16 - n-Hexadecane	B	5.837	+/- 4.5s (0.075m)	5.762 - 5.912
C18 - n-Octadecane	B	6.752	+/- 4.5s (0.075m)	6.677 - 6.827
C20 - n-Eicosane	B	7.582	+/- 4.5s (0.075m)	7.507 - 7.657
C22 - n-Docosane	B	8.343	+/- 4.5s (0.075m)	8.268 - 8.418
C24 - n-Tetracosane	B	9.043	+/- 4.5s (0.075m)	8.968 - 9.118
C28 - n-Octacosane	B	10.292	+/- 4.5s (0.075m)	10.217 - 10.367
C30 - n-Triacontane	B	10.853	+/- 4.5s (0.075m)	10.778 - 10.928
C32 - n-Dotriacontane	B	11.382	+/- 4.5s (0.075m)	11.307 - 11.457
C34 - n-Tetracontane	B	11.878	+/- 4.5s (0.075m)	11.803 - 11.953
C36 - n-Hexatriacontane	B	12.367	+/- 4.5s (0.075m)	12.292 - 12.442
C40 - n-Tetracontane	B	13.69	+/- 4.5s (0.075m)	13.615 - 13.765

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	2.252	5.912
Diesel C10-C22	B	2.252	8.418
Diesel C10-C24	B	2.252	9.118
Diesel C10-C28	B	2.252	10.367
Diesel C12-C24	B	3.573	9.118
Diesel C12-C28	B	3.573	10.367
Diesel C16-C24	B	5.762	9.118
Motor Oil C22-C32	B	8.268	11.457
Motor Oil C24-C36	B	8.968	12.442
Motor Oil C28-C40	B	10.217	13.765
Bunker C C10-C40	B	2.252	13.765
Bunker C C12-C40	B	3.573	13.765

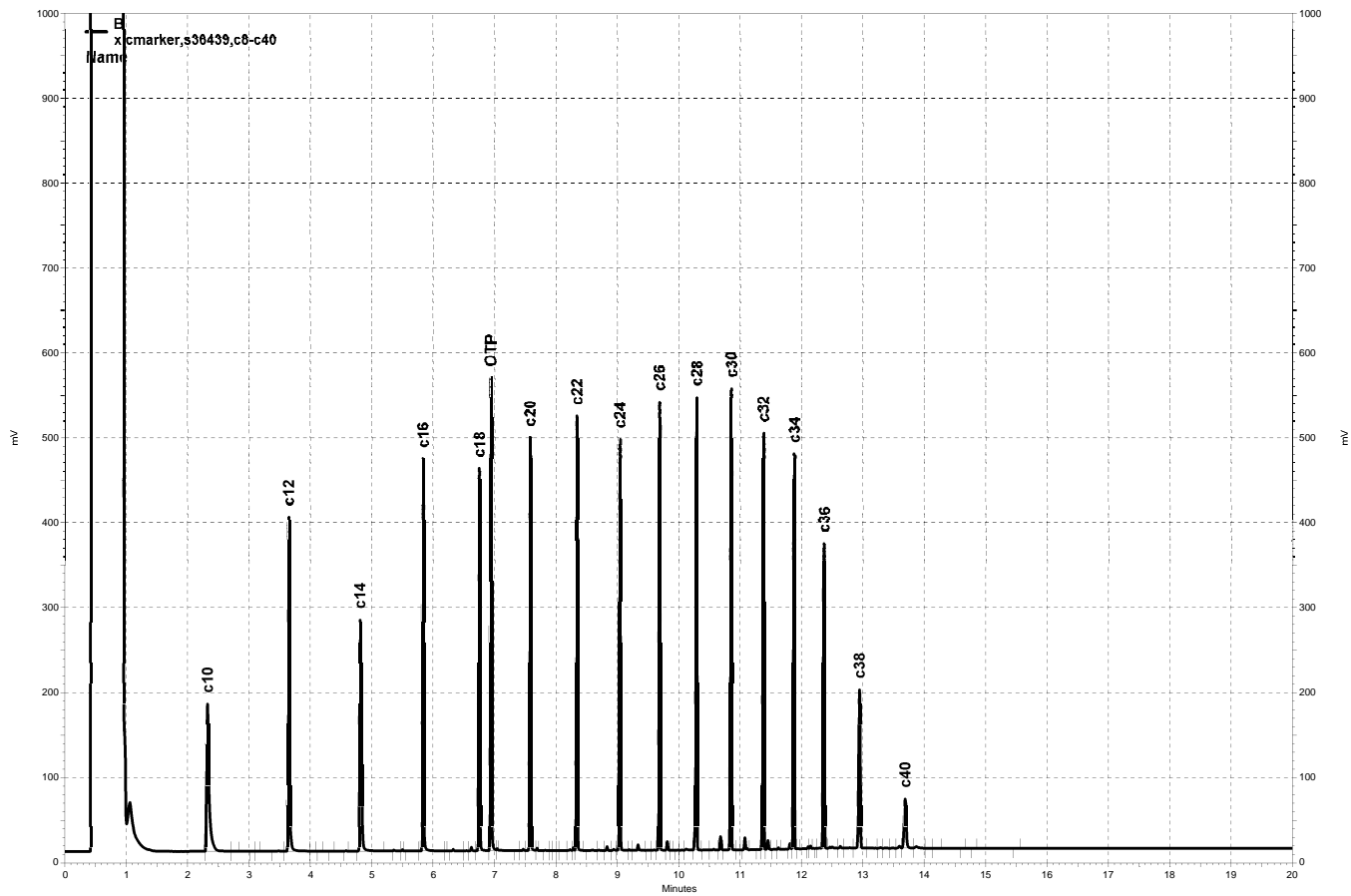
EZChrom method retention times successfully validated.

Analyst: CB1

Date: 07/12/18

Reviewer: EAH

Date: 07/12/18



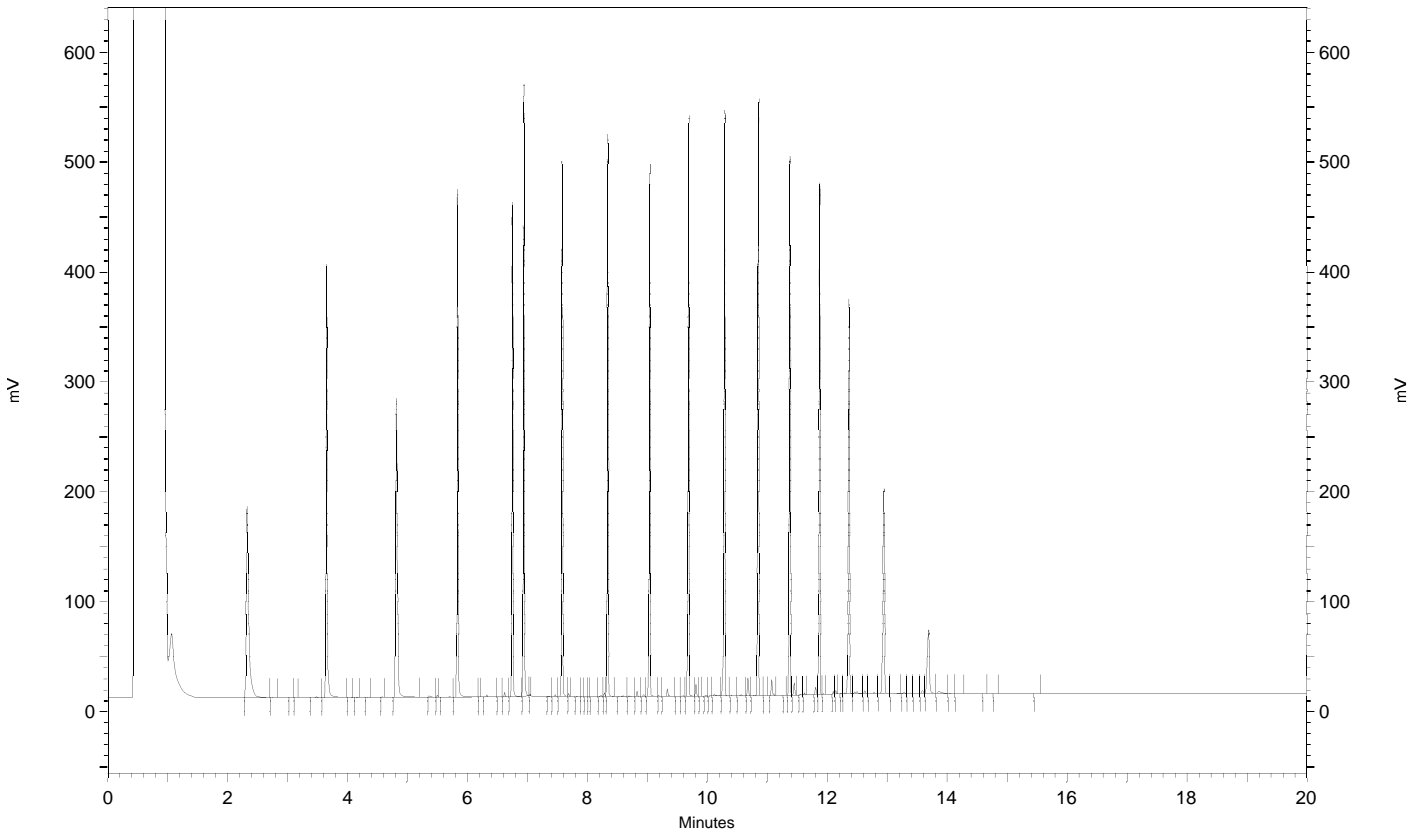
\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\193b022, B

Sample Name: x,cmarker,s36439,c8-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\193b022
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\193.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\cm193.met
Run Date: 7/12/2018 5:30:29 AM
Analysis Date: 7/12/2018 7:03:57 AM
Instrument: GC14B Vial: 22 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14B

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	2.327	485433	0.000
c12	3.648	500532	0.000
c14	4.813	520554	0.000
c16	5.837	543012	0.000
c18	6.752	549052	0.000
OTP	6.942	606619	0.000
c20	7.582	557496	0.000
c22	8.343	567876	0.000
c24	9.043	549895	0.000
c26	9.690	564603	0.000
c28	10.292	595475	0.000
c30	10.853	587167	0.000
c32	11.382	577144	0.000
c34	11.878	567495	0.000
c36	12.367	489720	0.000
c38	12.947	331303	0.000
c40	13.690	136765	0.000



Sample Name: x,cmarker,s36439,c8-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\193b022
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\193.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/12/2018 5:30:29 AM
 Analysis Date: 7/12/2018 7:06:10 AM
 Instrument: GC14B Vial: 22 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1589151	35.099
DSL:10-22	3915369	89.118
DSL:10-24	4478530	99.524
DSL:10-28	5672459	124.572
DSL:12-24	3968389	102.530
DSL:12-28	5162318	131.556
DSL:16-24	2889379	141.257
MO:22-32	2987327	103.399
MO:24-36	3555949	119.673
MO:28-40	2917403	153.819
BUNKC:10-40	8588871	418.568
BUNKC:12-40	8078730	405.349

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

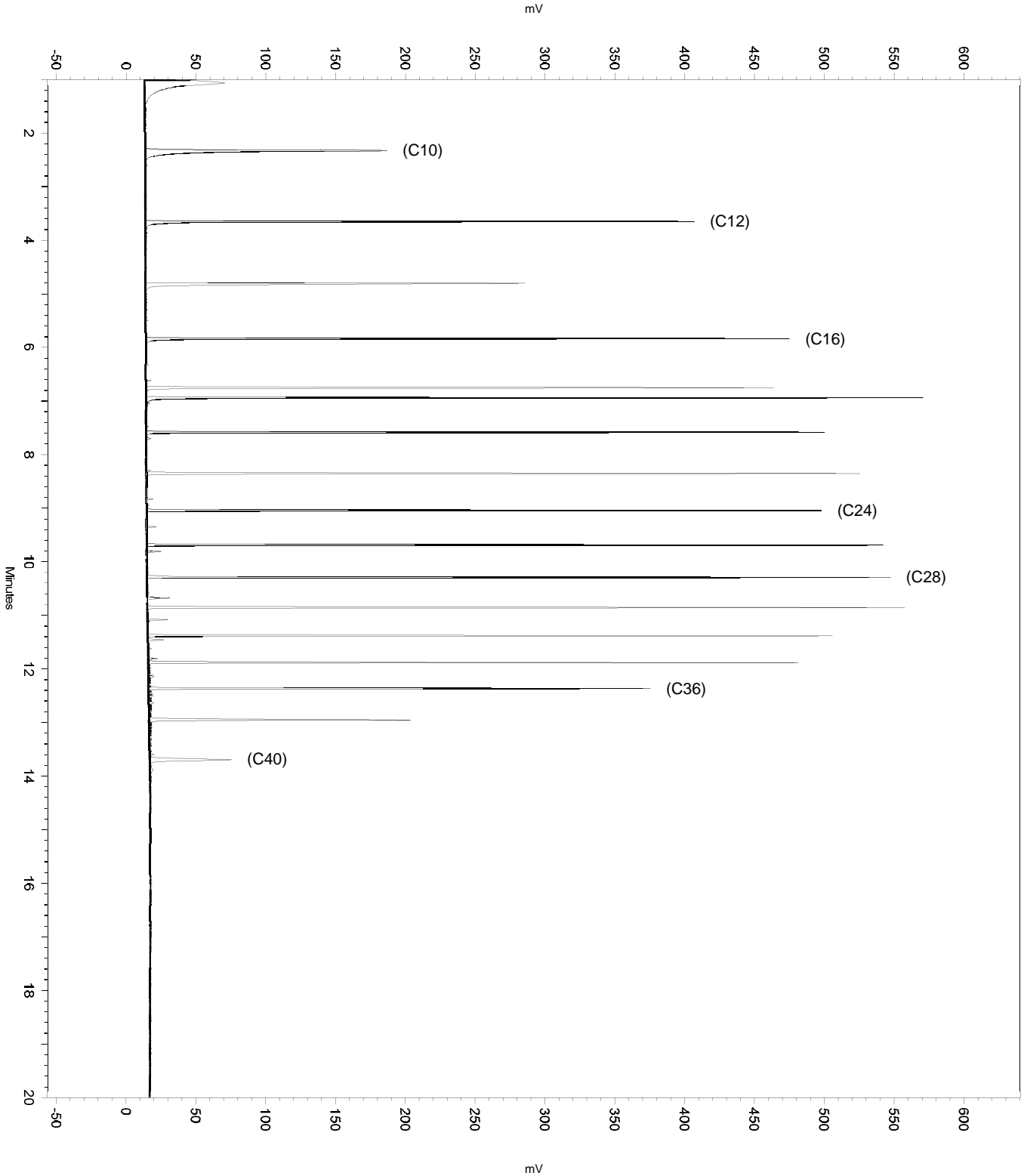
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Force Peak Stop     2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\193b022
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

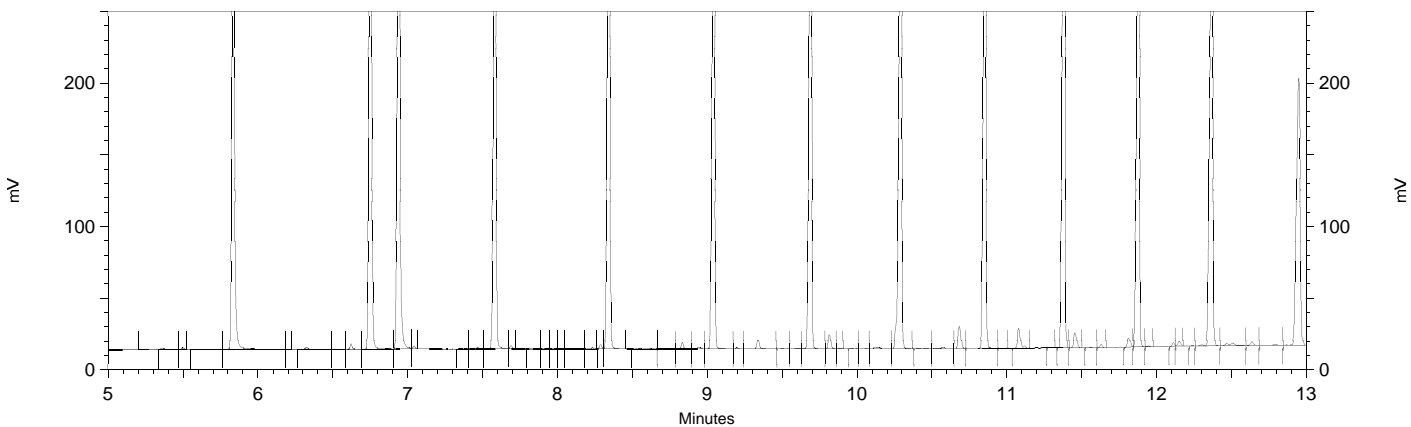
Sample Name: x,cmarker,s36439,c8-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\193b022
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\193.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/12/2018 5:30:29 AM
Analysis Date: 7/12/2018 7:06:10 AM
Instrument: GC14B Vial: 22 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: x,cmarker,s36439,c8-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\193b022
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\193.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/12/2018 5:30:29 AM
 Analysis Date: 7/12/2018 5:50:39 AM
 Instrument: GC14B Vial: 22 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.045	1755	0.032
Hexacosane	9.817	12685	0.254



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\193b022_5B2F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Continuing Calibration Verification Raw Data

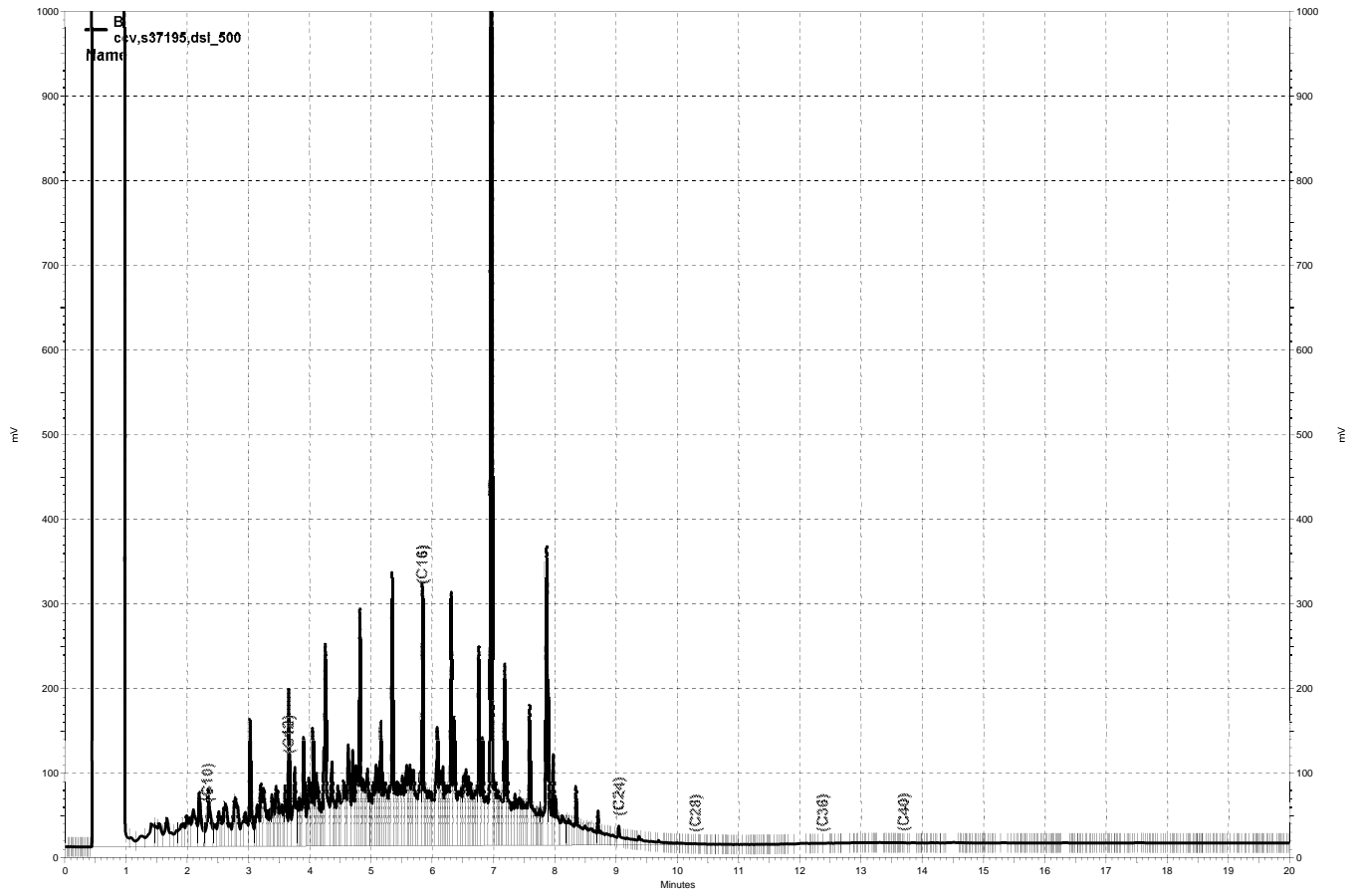
ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228288257003 File : 200_003 Time : 19-JUL-2018 05:13
 Standards: S37195

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	47102	500.0	523.4	mg/L	5	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	55495	50.00	50.16	mg/L	0	15	

CB1 07/19/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b003, B

Sample Name: **ccv,s37195,ds1_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b003
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 5:13:44 AM
 Analysis Date: 7/19/2018 8:32:16 AM
 Instrument: GC14B Vial: 3 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	13540059	299.056
DSL:10-22	25703452	585.037
DSL:10-24	26325558	585.016
DSL:10-28	26582034	583.763
DSL:12-24	23231350	600.223
DSL:12-28	23487826	598.561
DSL:16-24	13679691	668.776
MO:22-32	1142927	39.560
MO:24-36	372634	12.541
MO:28-40	54221	2.859
BUNKC:10-40	26629016	1297.731
BUNKC:12-40	23534808	1180.854

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

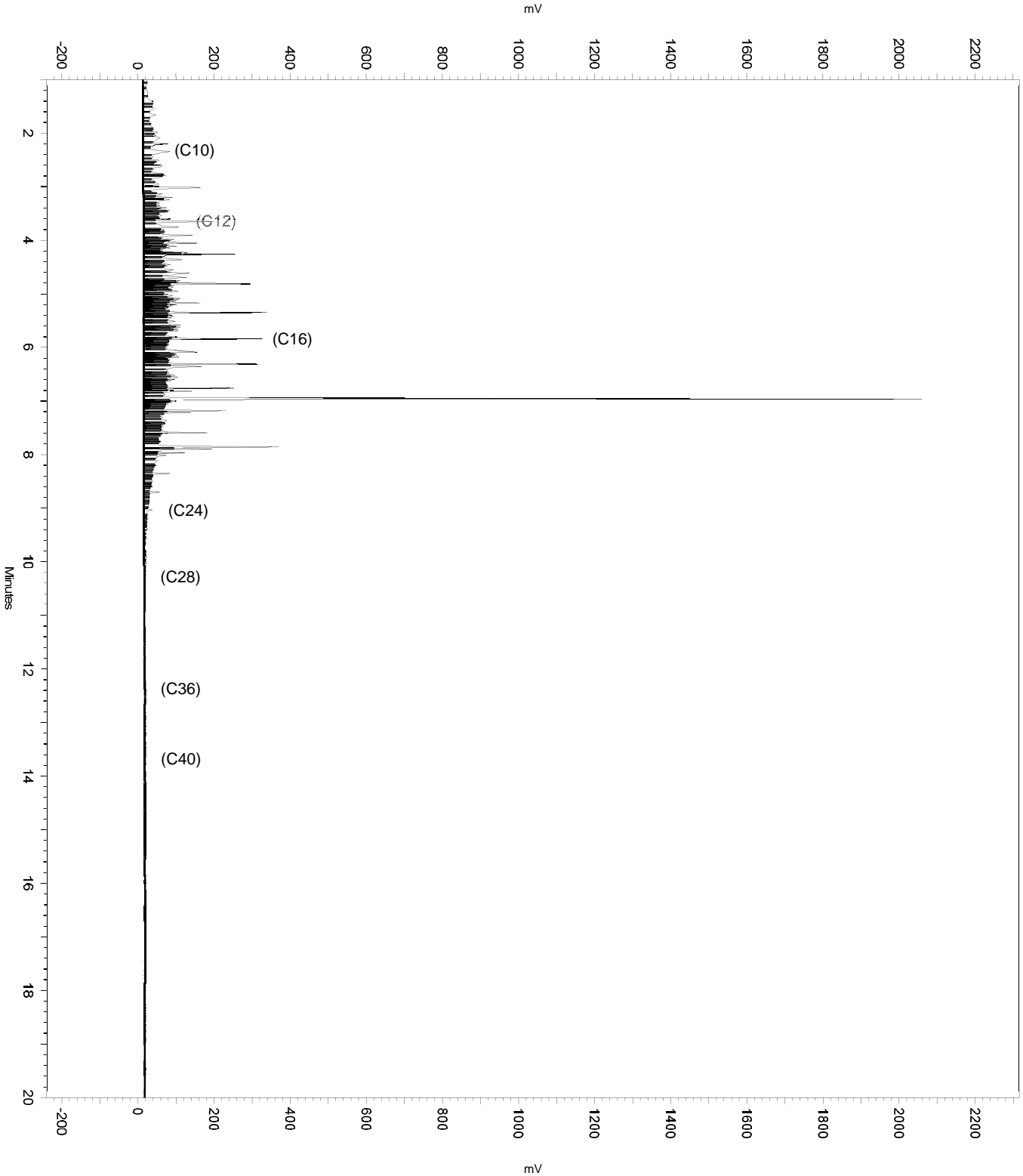
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b003
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Peak          6.903     7.259    0
No Split Peak           6.924     0         0
No Split Peak           6.988     0         0
  
```

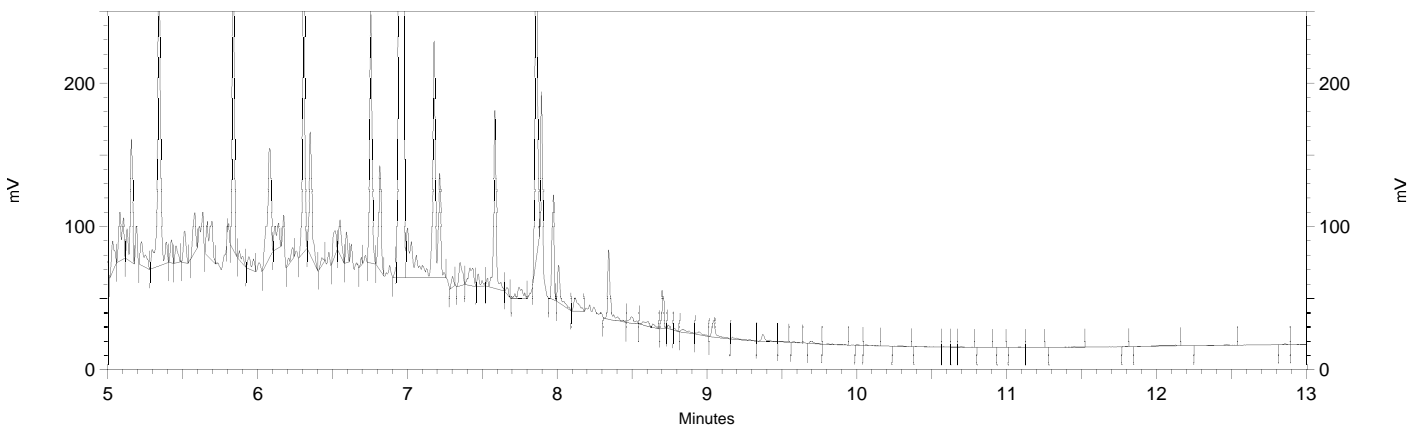
Sample Name: ccv,s37195,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b003
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 5:13:44 AM
Analysis Date: 7/19/2018 8:32:16 AM
Instrument: GC14B Vial: 3 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
Sample Amount: 1



Sample Name: **ccv,s37195,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b003
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 5:13:44 AM
 Analysis Date: 7/19/2018 8:31:13 AM
 Instrument: GC14B Vial: 3 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.972	2774756	50.156
Hexacosane	9.695	3417	0.068



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

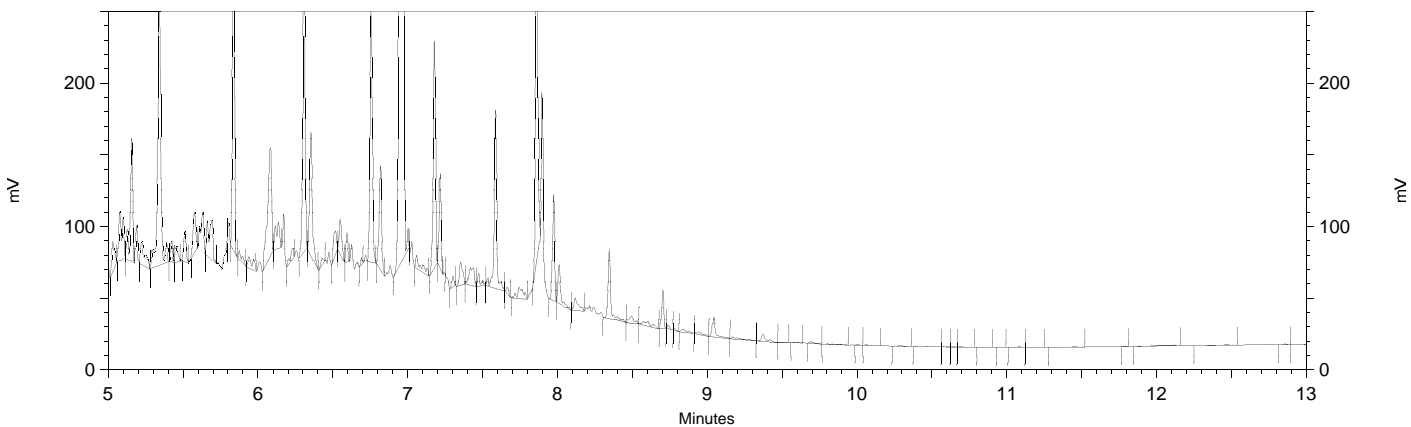
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.903	7.259	0
Yes	Split Peak	6.924	0	0
Yes	Split Peak	6.988	0	0

Sample Name: cvv,s37195,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b003
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 5:13:44 AM
 Analysis Date: 7/19/2018 5:33:53 AM
 Instrument: GC14B Vial: 3 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.972	2747760	49.668
Hexacosane	9.695	3417	0.068



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b003_5BC8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

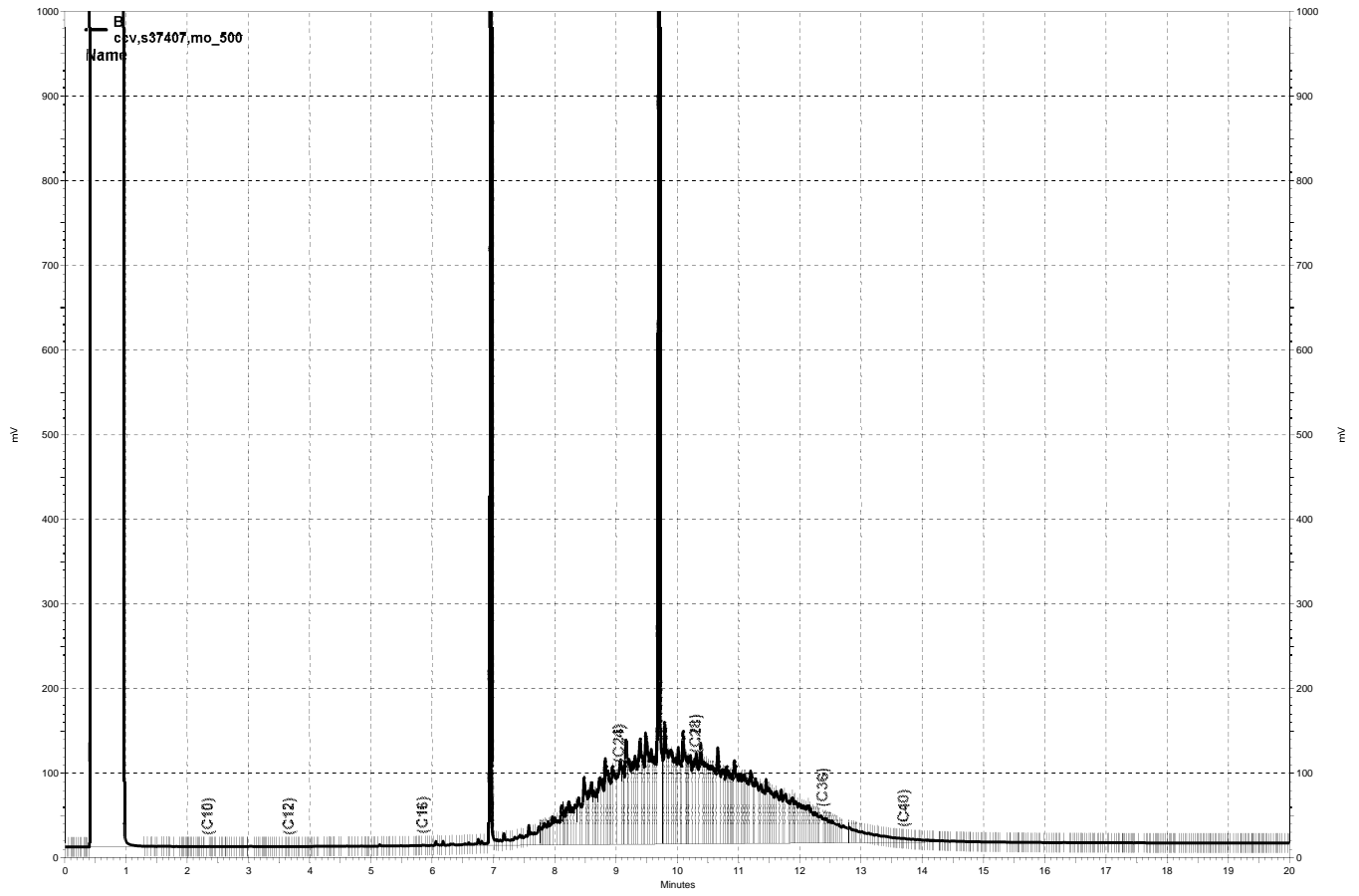
ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228288257004 File : 200_004 Time : 19-JUL-2018 05:41
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	32623	500.0	549.0	mg/L	10	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	56460	50.00	51.03	mg/L	2	15	

CB1 07/19/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b004, B

Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b004
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 5:41:59 AM
 Analysis Date: 7/19/2018 8:32:26 AM
 Instrument: GC14B Vial: 4 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	22708	0.502
DSL:10-22	4719739	107.426
DSL:10-24	7805279	173.452
DSL:10-28	17742380	389.637
DSL:12-24	7799834	201.522
DSL:12-28	17736936	452.006
DSL:16-24	7787576	380.721
MO:22-32	18933392	655.335
MO:24-36	18728452	630.294
MO:28-40	9792930	516.327
BUNKC:10-40	26896556	1310.770
BUNKC:12-40	26891112	1349.256

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

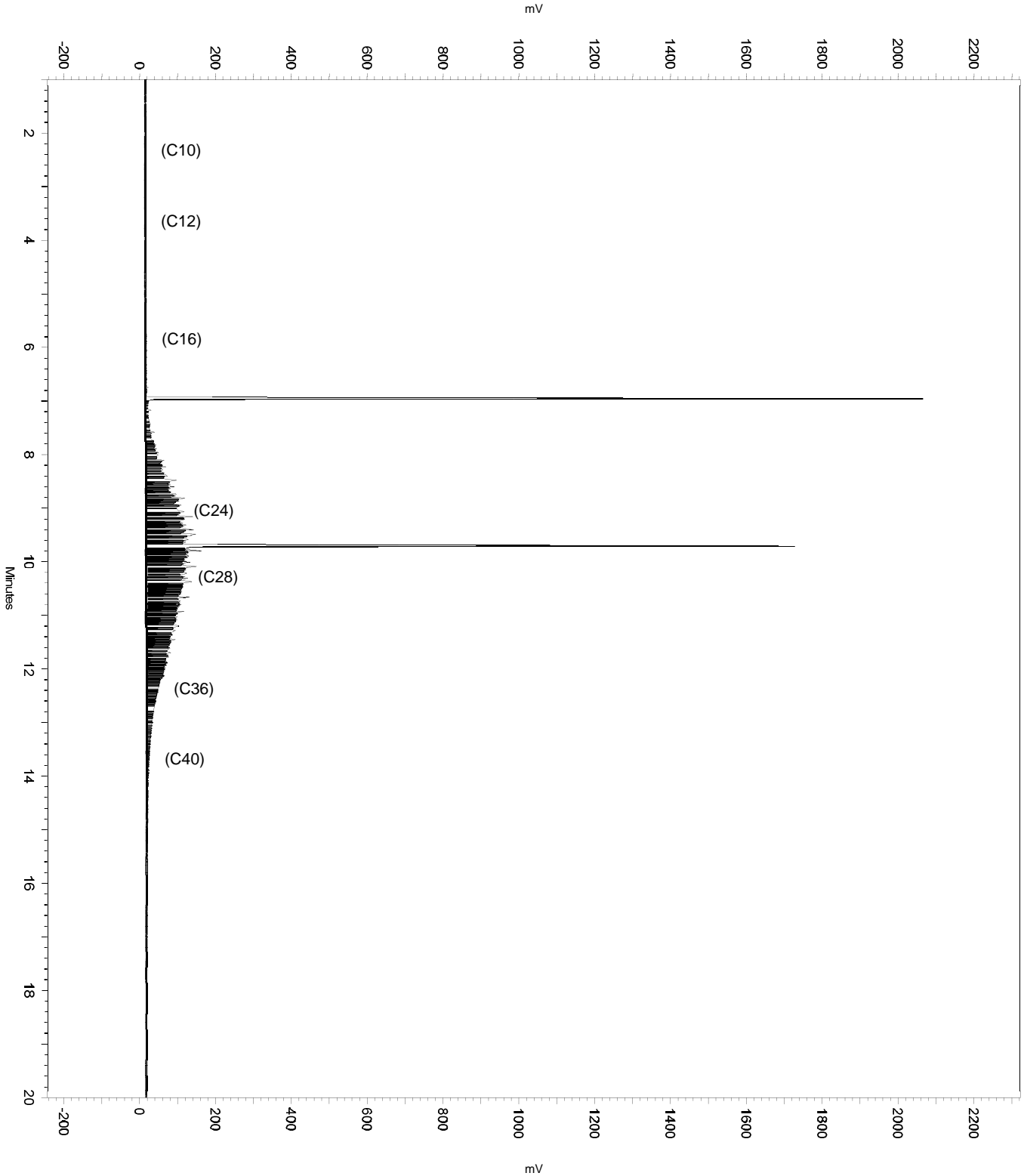
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0      0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b004
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      6.892     7.264    0
No Split Peak           6.911     0         0
No Split Peak           6.99      0         0
No Reassign Peak        6.998     6.962    0
No Manual Peak          9.657     9.993    0
No Split Peak           9.662     0         0
No Split Peak           9.744     0         0
  
```

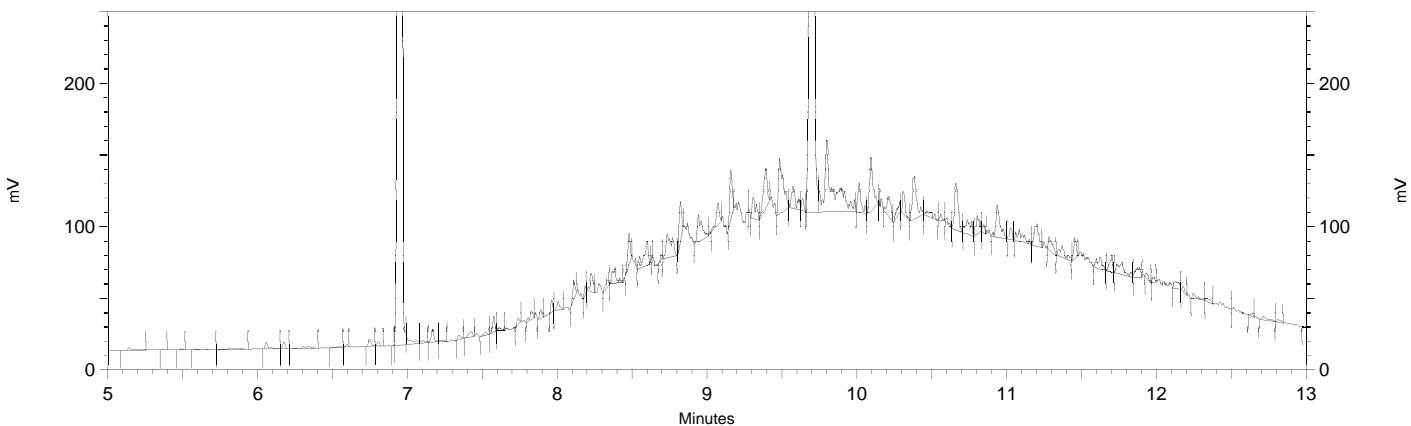
Sample Name: ccv,s37407,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b004
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 5:41:59 AM
Analysis Date: 7/19/2018 8:32:26 AM
Instrument: GC14B Vial: 4 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
Sample Amount: 1



Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b004
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 5:41:59 AM
 Analysis Date: 7/19/2018 8:32:02 AM
 Instrument: GC14B Vial: 4 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.960	2822997	51.028
Hexacosane	9.710	2416770	48.398



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

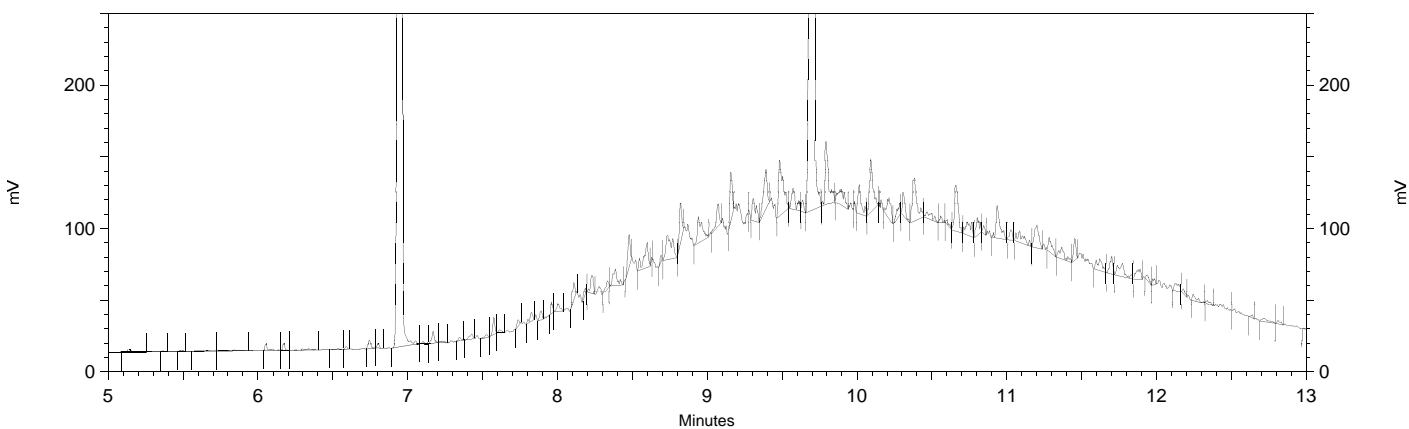
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.892	7.264	0
Yes	Split Peak	6.911	0	0
Yes	Split Peak	6.99	0	0
Yes	Reassign Peak	6.998	6.962	0
Yes	Manual Peak	9.657	9.993	0
Yes	Split Peak	9.662	0	0
Yes	Split Peak	9.744	0	0

Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b004
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 5:41:59 AM
 Analysis Date: 7/19/2018 6:02:08 AM
 Instrument: GC14B Vial: 4 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.960	2834144	51.230
Hexacosane	9.710	2415338	48.369



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b004_5BC9.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

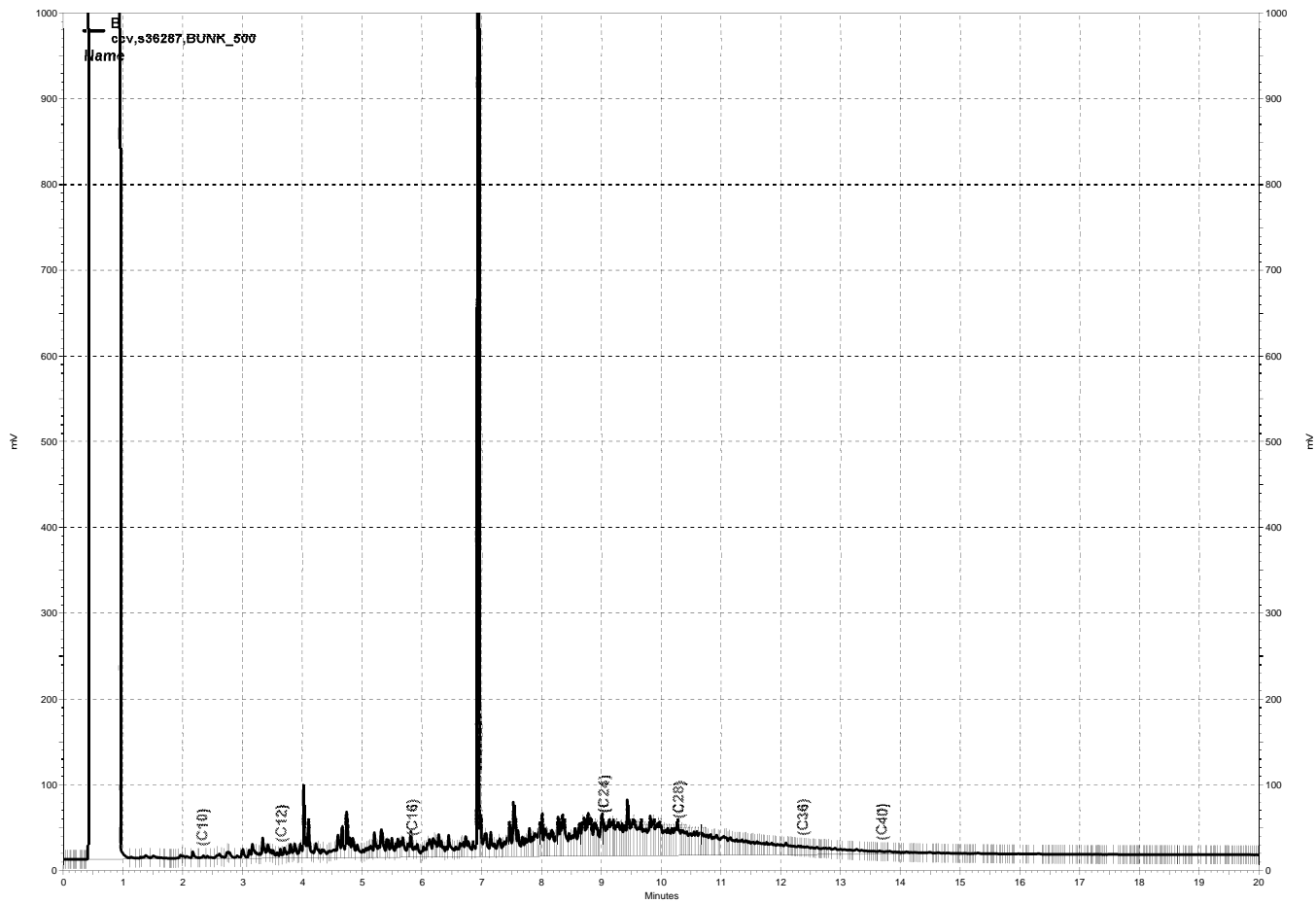
ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 228288257005 File : 200_005 Time : 19-JUL-2018 10:12
 Standards: S36287

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	228112705001	19-MAR-2018	19930	21953	500.0	550.7	mg/L	10	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	56812	50.00	51.35	mg/L	3	15	

WA1 07/19/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b005, B

Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b005
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 10:12:19 AM
 Analysis Date: 7/19/2018 10:37:31 AM
 Instrument: GC14B Vial: 5 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2205899	48.721
DSL:10-22	7939606	180.714
DSL:10-24	9184854	204.109
DSL:10-28	11739946	257.819
DSL:12-24	8827165	228.065
DSL:12-28	11382257	290.064
DSL:16-24	7105487	347.375
MO:22-32	5501337	190.416
MO:24-36	4857832	163.487
MO:28-40	2751408	145.067
BUNKC:10-40	14174775	690.789
BUNKC:12-40	13817086	693.269

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

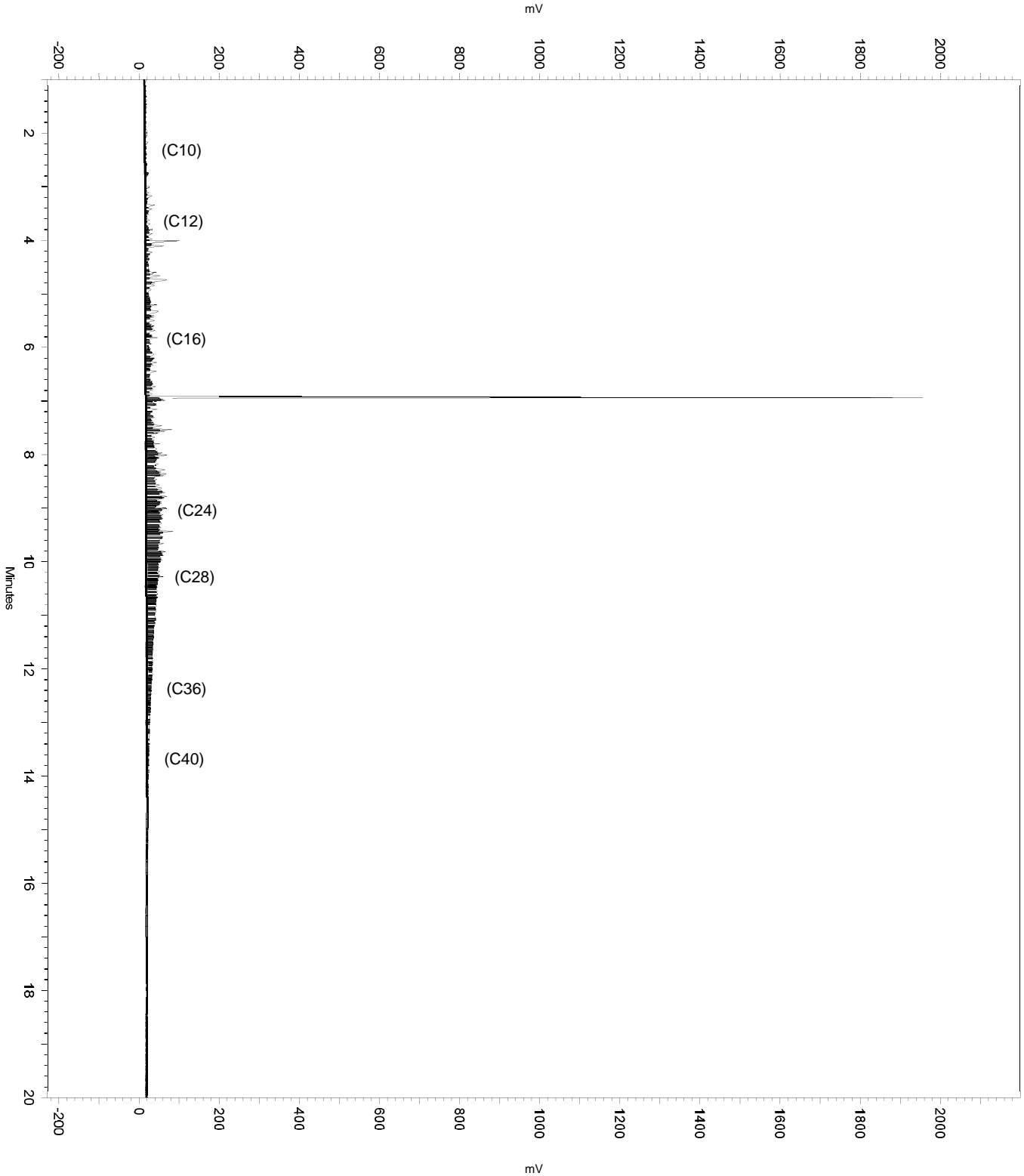
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold           0          0     10
Yes Force Peak Stop    2.27       0      0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b005
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      6.898     7.128    0
No Split Peak           6.961     0         0
No Reassign Peak        6.969     6.942    0
Yes Reset Baseline      15.02     0         0
  
```

Sample Name: ccv,s36287,BUNK_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b005
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 10:12:19 AM
Analysis Date: 7/19/2018 10:37:31 AM
Instrument: GC14B Vial: 5 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
Sample Amount: 1

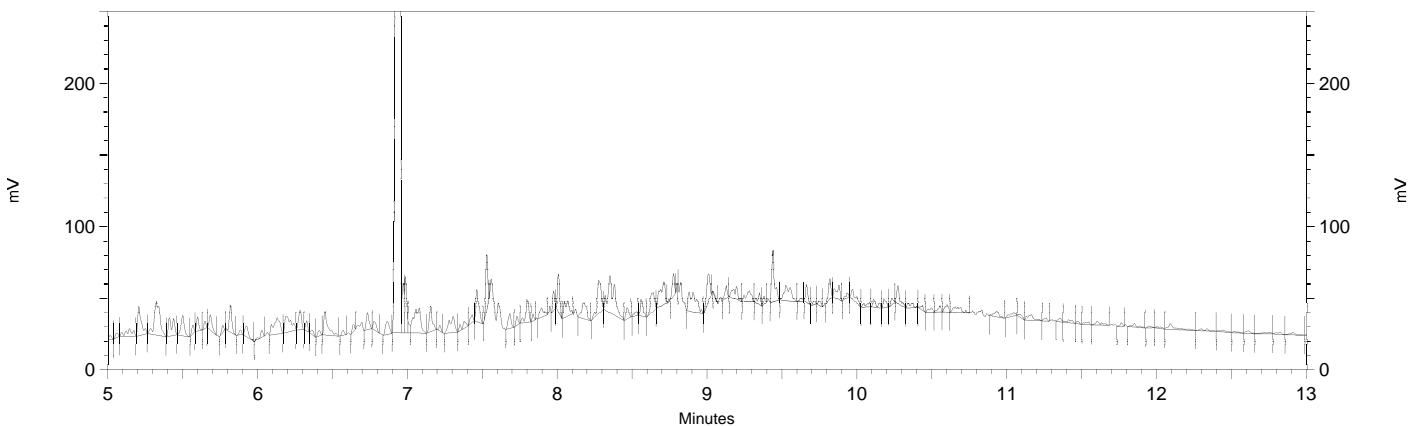


Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b005
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 10:12:19 AM
 Analysis Date: 7/19/2018 10:34:48 AM
 Instrument: GC14B Vial: 5 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.947	2840592	51.346
Hexacosane	9.730	3904	0.078



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

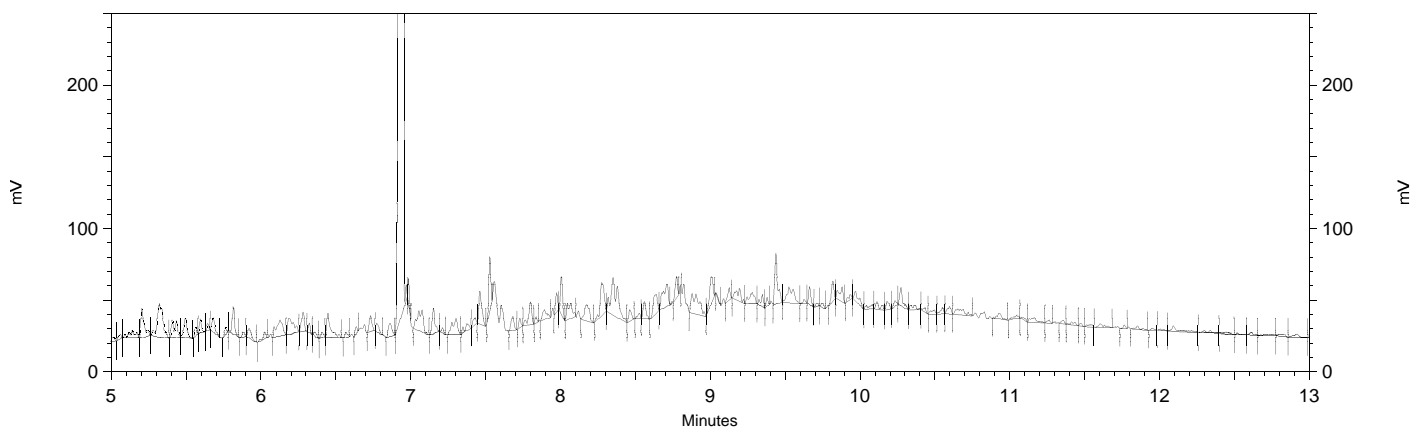
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.898	7.128	0
Yes	Split Peak	6.961	0	0
Yes	Reassign Peak	6.969	6.942	0

Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b005
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 10:12:19 AM
 Analysis Date: 7/19/2018 10:32:29 AM
 Instrument: GC14B Vial: 5 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.987	12237	0.221
Hexacosane	9.730	3904	0.078



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b005_5BCA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

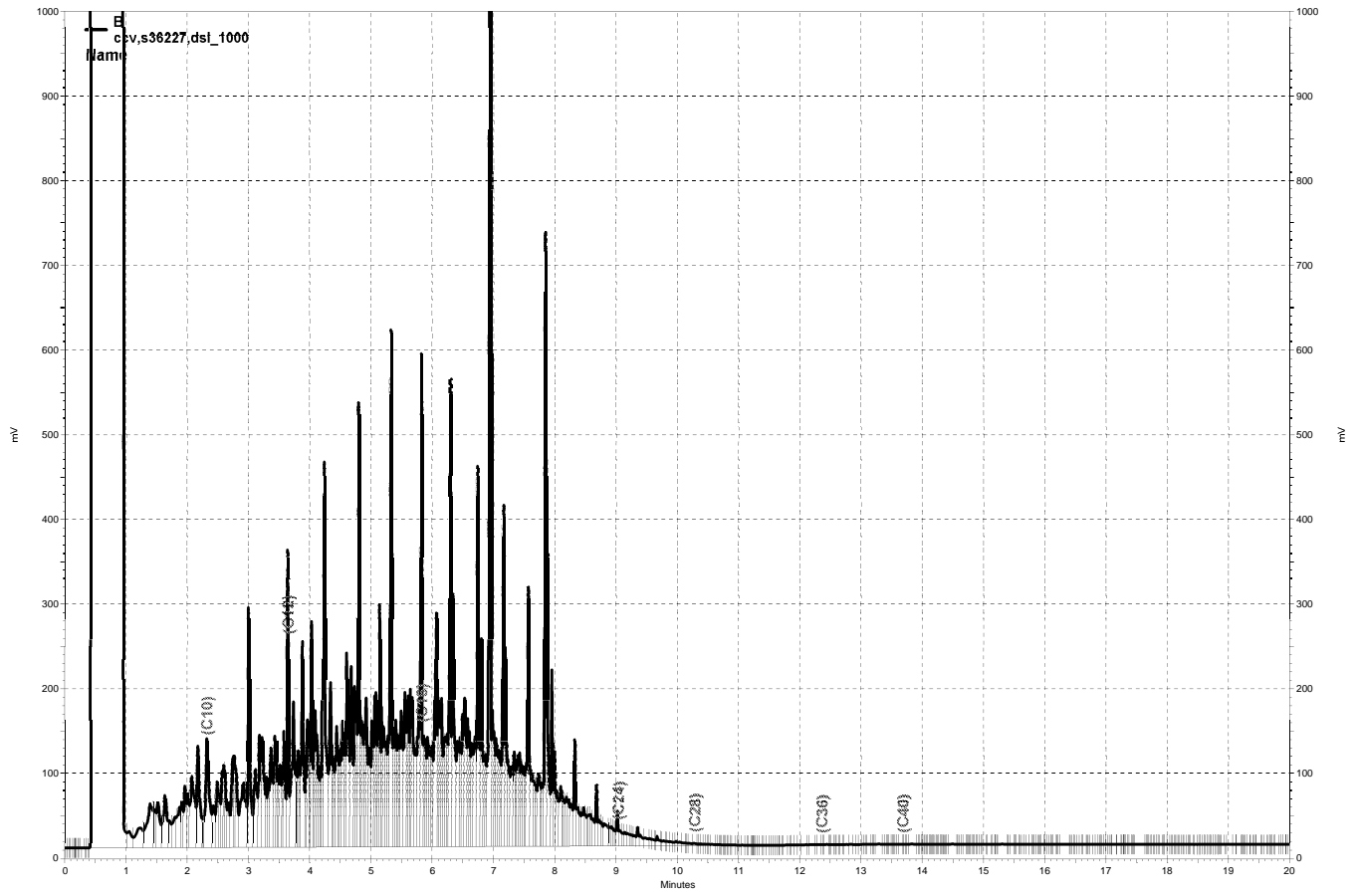
Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 228288257013 File : 200_013 Time : 19-JUL-2018 14:18
 Standards: S36227

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	44428	1000	987.3	mg/L	-1	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	57462	50.00	51.93	mg/L	4	15	

WA1 07/19/18 : ccv,s36227,dsl_1000

WA1 07/19/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b013, B

Sample Name: **ccv,s37195,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b013
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 2:18:47 PM
 Analysis Date: 7/19/2018 2:46:44 PM
 Instrument: GC14B Vial: 13 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	25365210	560.236
DSL:10-22	46169116	1050.858
DSL:10-24	47301396	1051.149
DSL:10-28	47843444	1050.682
DSL:12-24	41793468	1079.808
DSL:12-28	42335516	1078.874
DSL:16-24	23626862	1155.075
MO:22-32	2145575	74.264
MO:24-36	747045	25.141
MO:28-40	98515	5.194
BUNKC:10-40	47924076	2335.519
BUNKC:12-40	42416148	2128.222

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

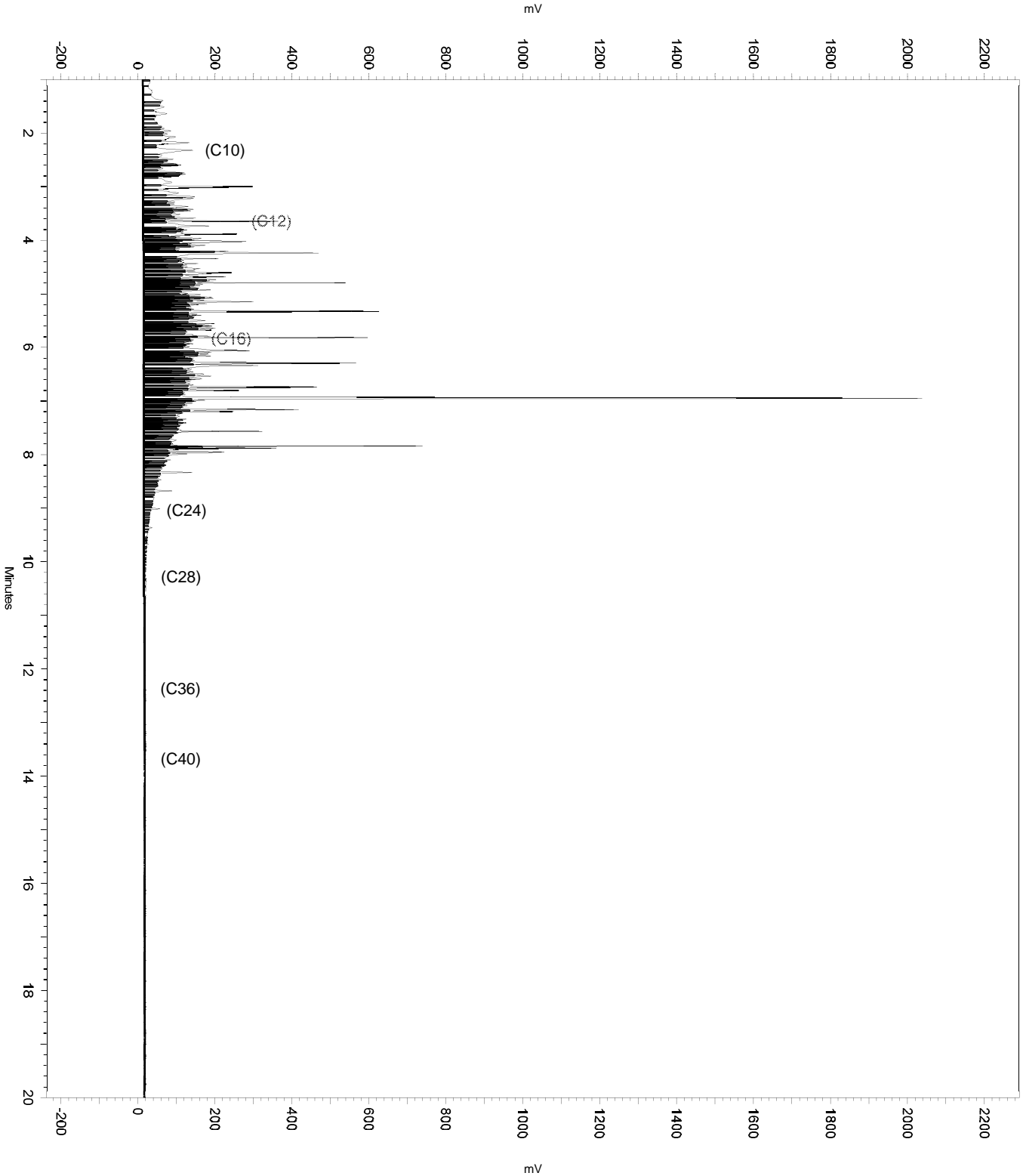
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b013
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      6.885     7.128    0
No Reassign Peak        6.991     6.952    0
  
```

Sample Name: ccv,s37195,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b013
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 2:18:47 PM
Analysis Date: 7/19/2018 2:46:44 PM
Instrument: GC14B Vial: 13 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

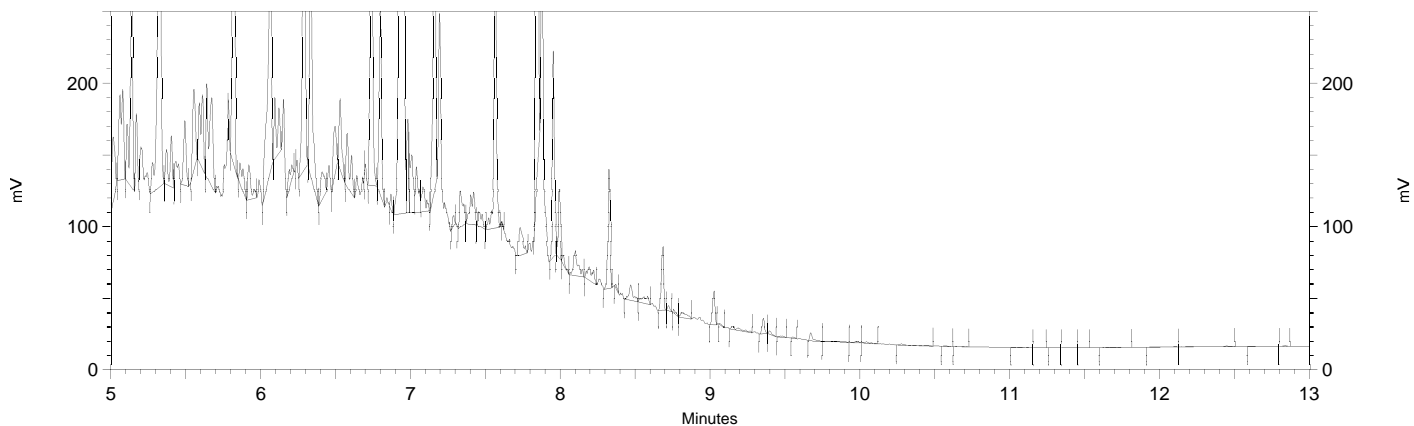


Sample Name: **ccv,s37195,dsi_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b013
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 2:18:47 PM
 Analysis Date: 7/19/2018 2:45:58 PM
 Instrument: GC14B Vial: 13 Operator: Alcohol 1. Analyst: (lms2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.953	2873085	51.934
Hexacosane	9.782	5434	0.109



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

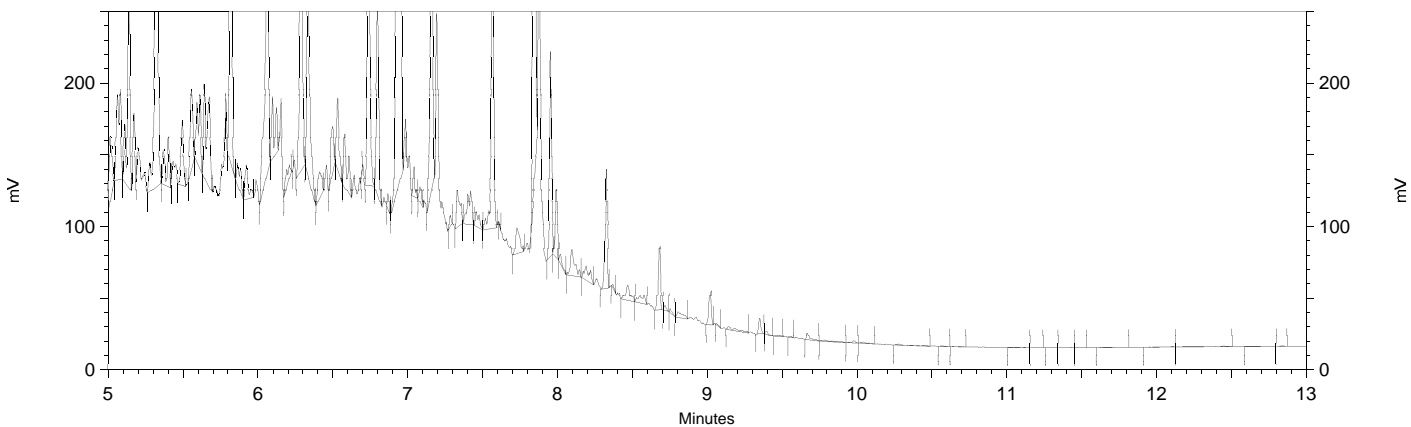
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.885	7.128	0
Yes	Reassign Peak	6.991	6.952	0

Sample Name: **ccv,s37195,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b013
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 2:18:47 PM
 Analysis Date: 7/19/2018 2:38:56 PM
 Instrument: GC14B Vial: 13 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.990	0	0.000
Hexacosane	9.782	5434	0.109



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b013_5BD3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

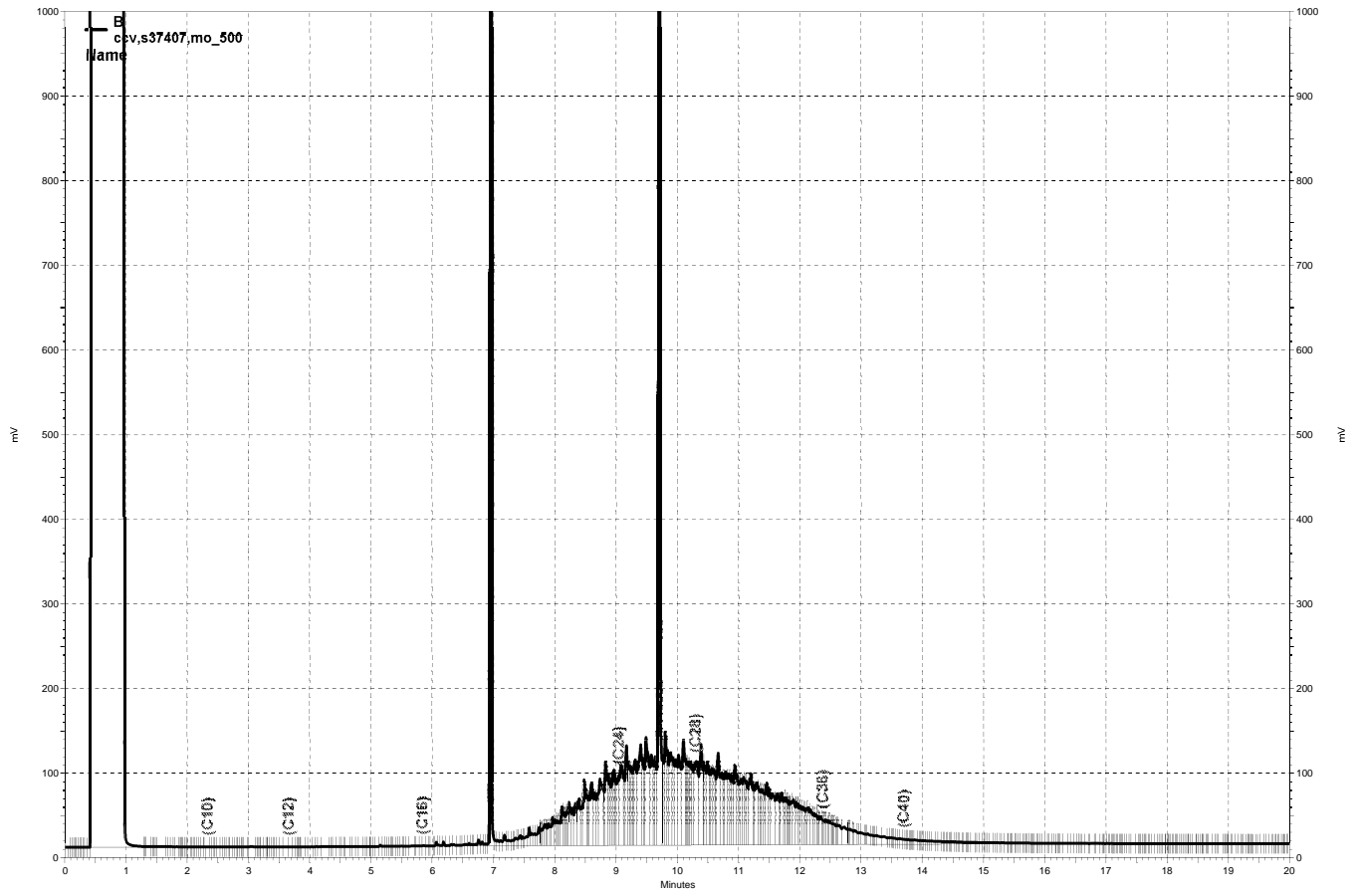
ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228288257014 File : 200_014 Time : 19-JUL-2018 14:47
 Standards: S37407

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	31545	500.0	530.8	mg/L	6	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	54362	50.00	49.13	mg/L	-2	15	

WA1 07/19/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b014, B

Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b014
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 2:47:06 PM
 Analysis Date: 7/19/2018 3:58:28 PM
 Instrument: GC14B Vial: 14 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	26978	0.596
DSL:10-22	4578388	104.209
DSL:10-24	7526341	167.253
DSL:10-28	17057644	374.600
DSL:12-24	7515161	194.167
DSL:12-28	17046464	434.410
DSL:16-24	7504769	366.895
MO:22-32	18095632	626.338
MO:24-36	18086060	608.674
MO:28-40	9658396	509.234
BUNKC:10-40	25933934	1263.856
BUNKC:12-40	25922754	1300.668

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

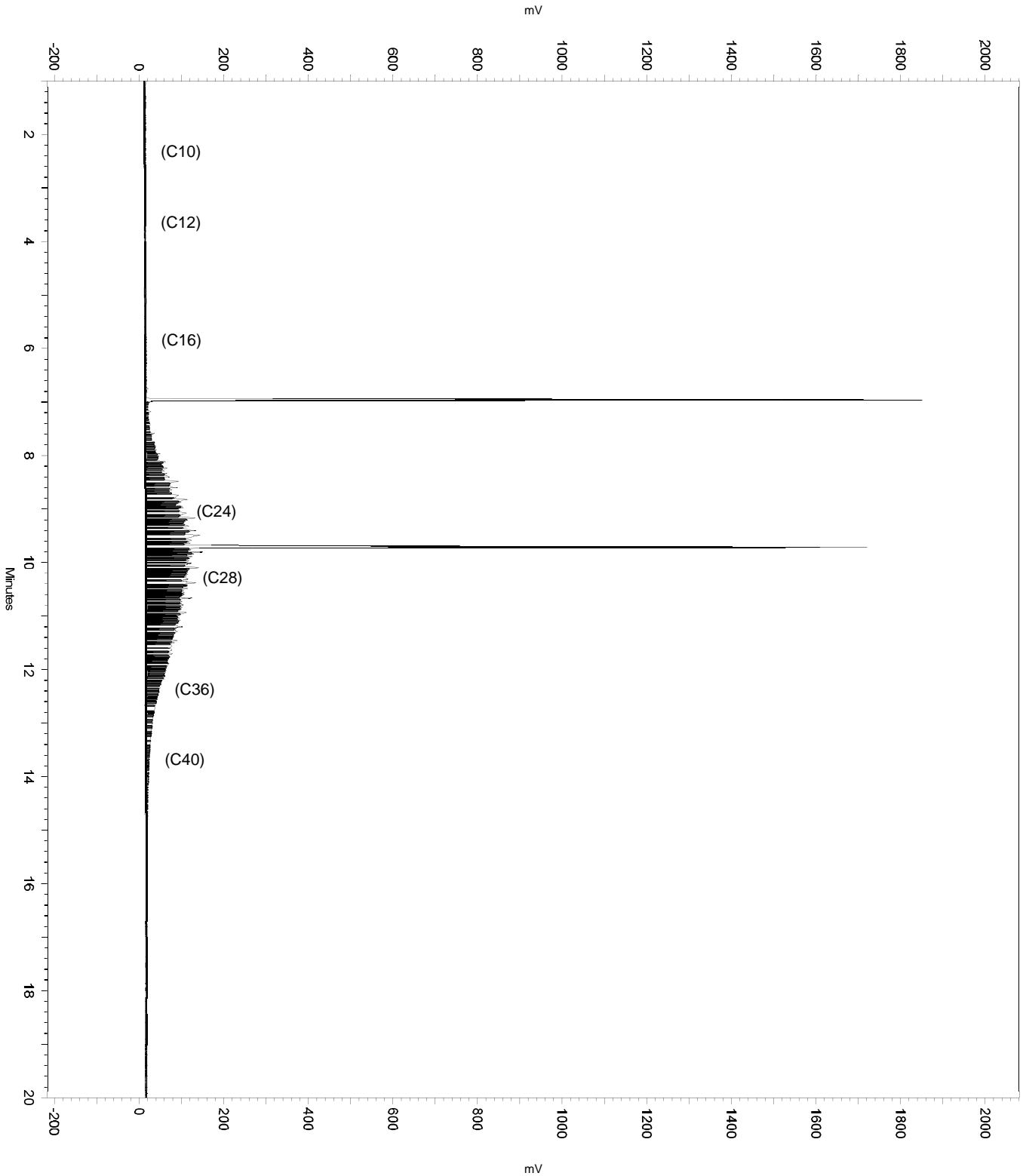
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes   Width              0          0      0
Yes   Threshold           0          0     10
Yes   Force Peak Stop    2.27       0      0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b014
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes   Move BL Stop       5.938     17.005  0
No    Manual Baseline     6.906     7.145   0
No    Manual Baseline     9.661     10.064  0
No    Split Peak          9.748     0        0
  
```

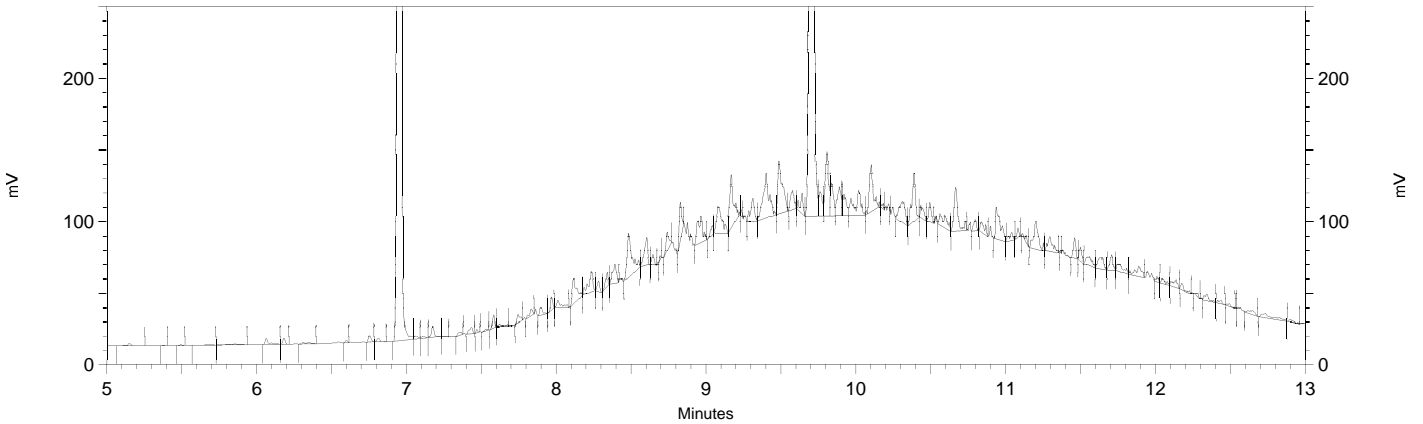

Sample Name: ccv,s37407,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b014
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 2:47:06 PM
Analysis Date: 7/19/2018 3:58:28 PM
Instrument: GC14B Vial: 14 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b014
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 2:47:06 PM
 Analysis Date: 7/19/2018 3:57:39 PM
 Instrument: GC14B Vial: 14 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.965	2718091	49.132
Hexacosane	9.717	2313498	46.330



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

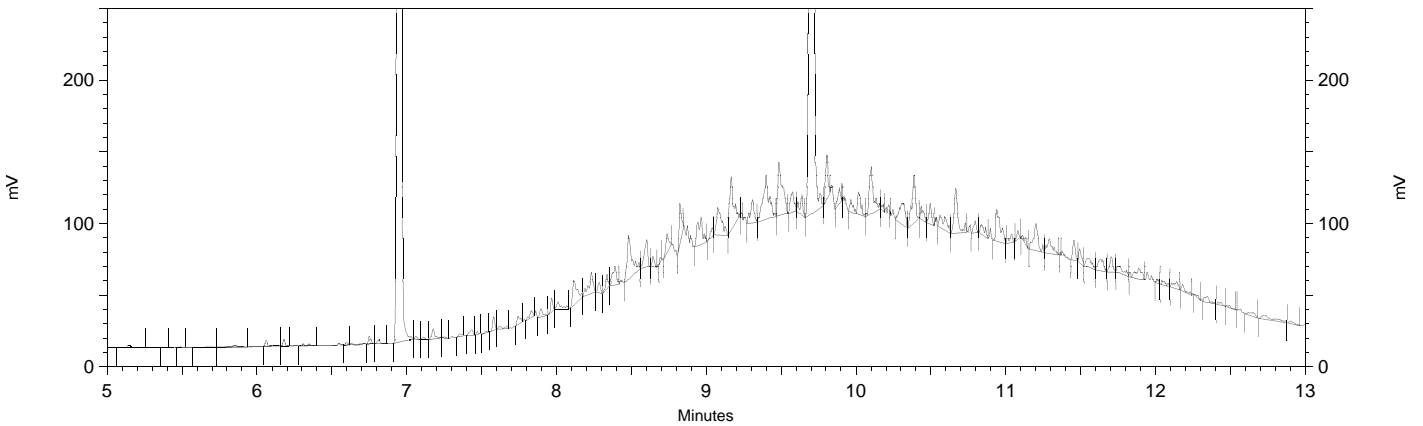
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b014
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Manual Baseline     6.906     7.145     0
Yes Manual Baseline     9.661    10.064     0
Yes Split Peak          9.748      0          0
  
```

Sample Name: **ccv,s37407,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b014
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 2:47:06 PM
 Analysis Date: 7/19/2018 3:07:16 PM
 Instrument: GC14B Vial: 14 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.965	2711888	49.020
Hexacosane	9.717	2312744	46.315



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0          20         0
Yes Shoulder Sensitivity 0          20         500
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b014_5BD4.tmp
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

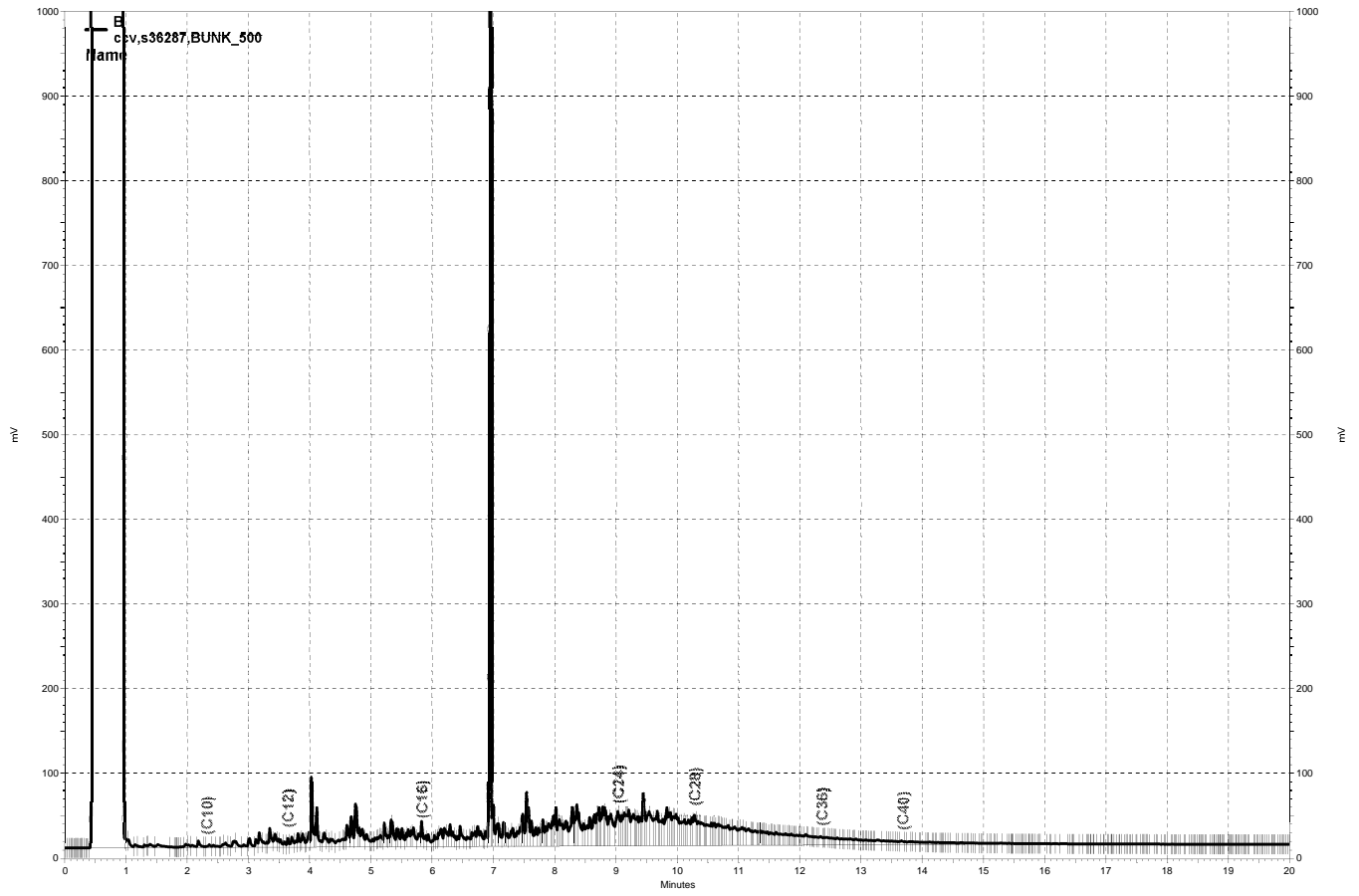
ENTHALPY CONTINUING CALIBRATION FOR 301571 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 228288257015 File : 200_015 Time : 19-JUL-2018 15:15
 Standards: S36287

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	228112705001	19-MAR-2018	19930	21218	500.0	532.3	mg/L	6	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	55582	50.00	50.23	mg/L	0	15	

WA1 07/19/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 07/19/18 Reviewer: EAH Date: 07/19/18



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b015, B

Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
 Run Date: 7/19/2018 3:15:29 PM
 Analysis Date: 7/19/2018 3:58:47 PM
 Instrument: GC14B Vial: 15 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2183182	48.219
DSL:10-22	7781742	177.121
DSL:10-24	8973168	199.405
DSL:10-28	11385956	250.045
DSL:12-24	8612395	222.516
DSL:12-28	11025183	280.965
DSL:16-24	6916089	338.115
MO:22-32	5287977	183.031
MO:24-36	4605247	154.987
MO:28-40	2642414	139.320
BUNKC:10-40	13748826	670.031
BUNKC:12-40	13388053	671.743

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

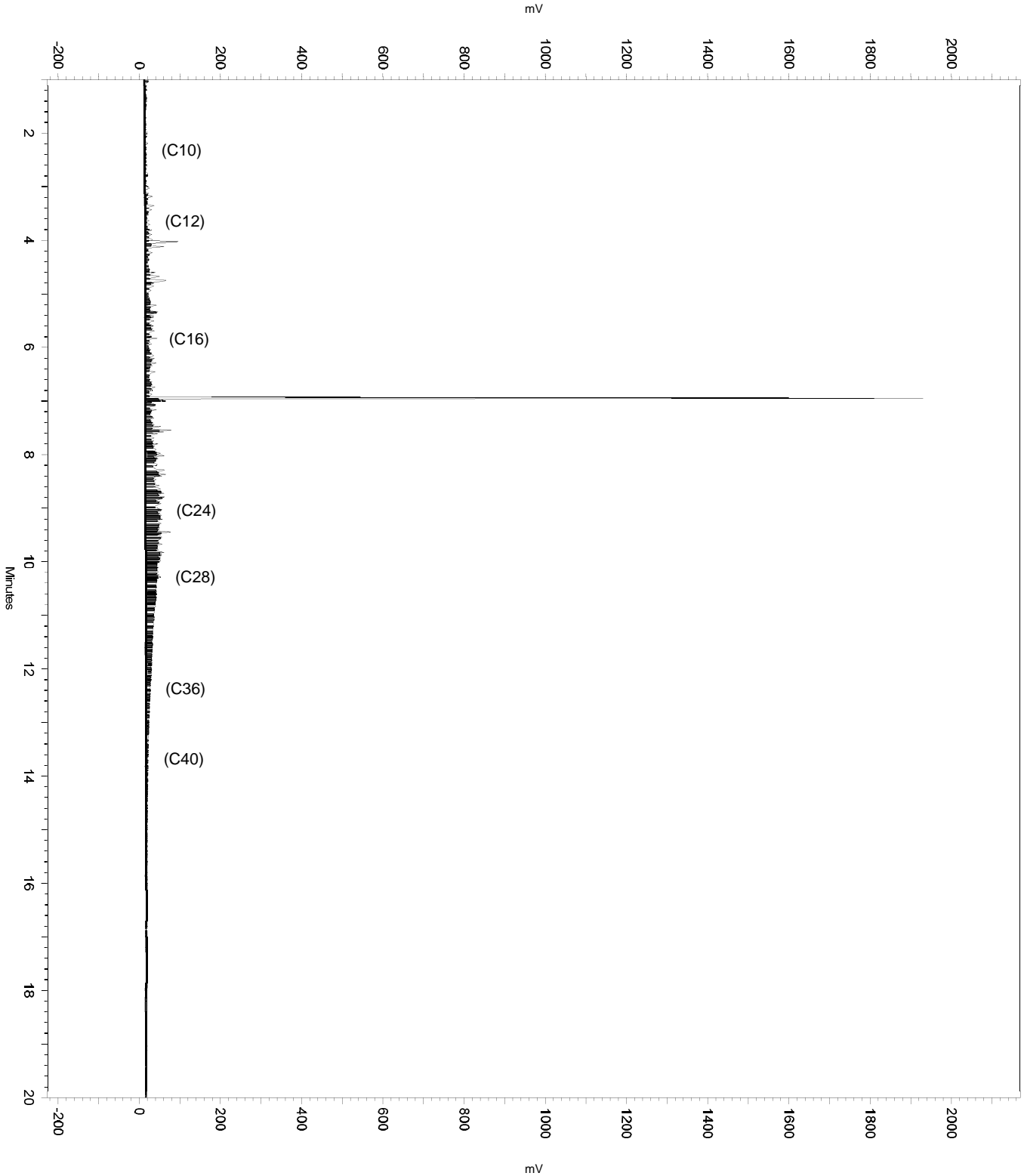
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0      0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b015
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        1.842     16.845   0
No Manual Baseline      6.905     7.141    0
No Split Peak           6.971     0         0
No Reassign Peak        6.979     6.944    0
  
```

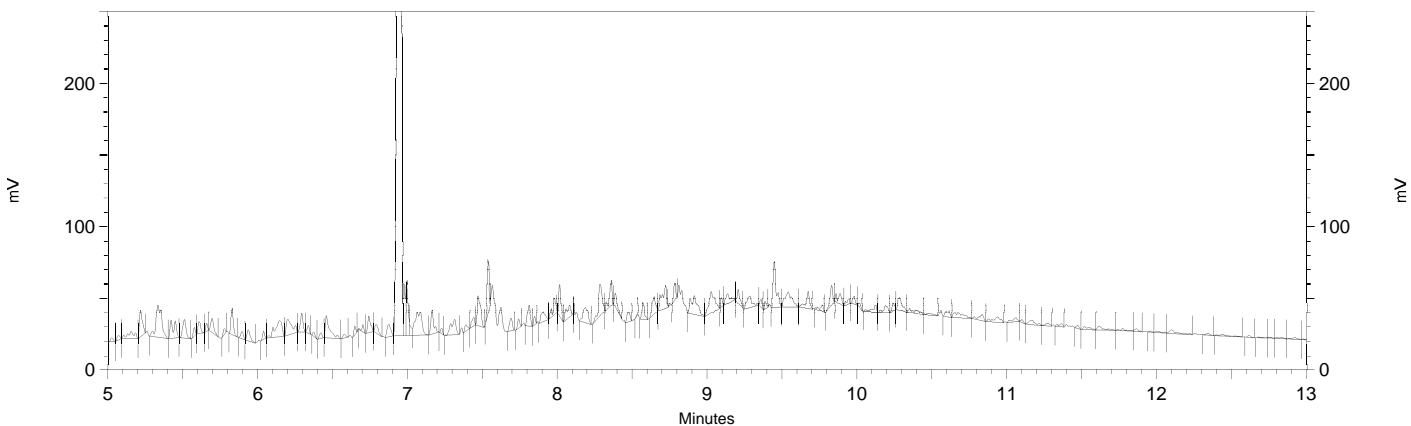
Sample Name: ccv,s36287,BUNK_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b015
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH193.met
Run Date: 7/19/2018 3:15:29 PM
Analysis Date: 7/19/2018 3:58:47 PM
Instrument: GC14B Vial: 15 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 3:15:29 PM
 Analysis Date: 7/19/2018 3:58:00 PM
 Instrument: GC14B Vial: 15 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.955	2779111	50.235
Hexacosane	9.767	7033	0.141



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

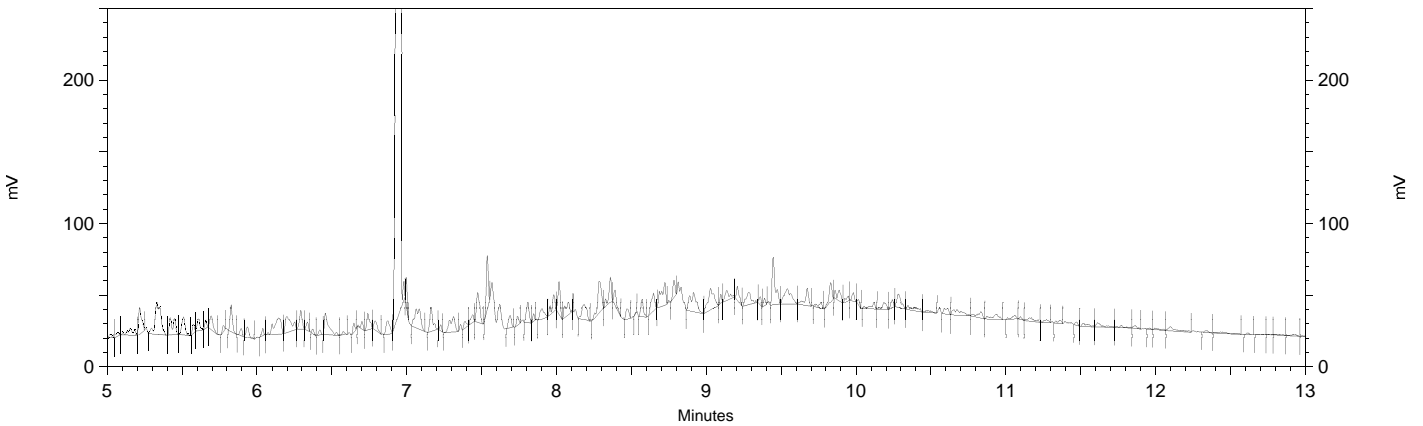
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.905	7.141	0
Yes	Split Peak	6.971	0	0
Yes	Reassign Peak	6.979	6.944	0

Sample Name: **ccv,s36287,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\200b015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\200.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr193.met
 Run Date: 7/19/2018 3:15:29 PM
 Analysis Date: 7/19/2018 3:35:38 PM
 Instrument: GC14B Vial: 15 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.998	13179	0.238
Hexacosane	9.767	7033	0.141



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\200b015_5BD5.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 303845

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02A.01
Location : Riley Avenue
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	303845-001
BR11-1GW02	303845-002
BR11-1GW03	303845-003
DUP10032018-01	303845-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 10/19/2018

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE
TPH-PURGEABLES AND/OR BTXE BY GC (EPA 8015B AND EPA 8021B)

Laboratory number: **303845**
Client: **TRC Solutions**
Project: **285830.02A.01**
Location: **Riley Avenue**
Request Date: **10/03/18**
Samples Received: **10/03/18**

This data package contains sample and QC results for four water samples, requested for the above referenced project on 10/03/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):

Gasoline C7-C12 and m,p-xylenes were detected between the MDL and the RL in the method blank for batch 264247; these analytes were not detected in samples at or above the RL.

No other analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 203045
 Date Received: 10/3/18

Client: TRE solutions
 Project: _____



Section 2: Samples received in a cooler? Yes, how many? 1 No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # A, or B

Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 10/3/18 By (print) AC (sign) [Signature]

Shipping info (if applicable) _____

Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package

Date: _____ How many _____ Signature, Initials, None

Were custody seals intact upon arrival? Yes No N/A

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

Samples received on ice directly from the field. Cooling process had begun

Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No

Temperature measured using Thermometer ID: _____, or IR Gun # A B

Cooler Temp (°C): #1: 2.1, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?		<input checked="" type="checkbox"/>	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for preserved terracores?			<input checked="" type="checkbox"/>
Are bubbles > 6mm absent in VOA samples?	<input checked="" type="checkbox"/>		
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			<input checked="" type="checkbox"/>
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:

Explanations/Comments: _____

Date Logged in 10/3/18 By (print) AC (sign) [Signature]
 Date Labeled 10/4/18 By (print) DO (sign) [Signature]

Results & QC Summary

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02A.01		
Matrix:	Water	Sampled:	10/03/18
Units:	ug/L	Received:	10/03/18
Diln Fac:	1.000	Analyzed:	10/05/18
Batch#:	264247		

Field ID: BR11-1GW01
Type: SAMPLE

Lab ID: 303845-001

Analyte	Result	RL	Analysis
Gasoline C7-C12	32 J	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	110	79-120	EPA 8015B
Bromofluorobenzene (PID)	94	71-127	EPA 8021B

Field ID: BR11-1GW02
Type: SAMPLE

Lab ID: 303845-002

Analyte	Result	RL	Analysis
Gasoline C7-C12	20 J	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	111	79-120	EPA 8015B
Bromofluorobenzene (PID)	95	71-127	EPA 8021B

Field ID: BR11-1GW03
Type: SAMPLE

Lab ID: 303845-003

Analyte	Result	RL	Analysis
Gasoline C7-C12	45 J	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	0.13 C J	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	113	79-120	EPA 8015B
Bromofluorobenzene (PID)	96	71-127	EPA 8021B

C= Presence confirmed, but RPD between columns exceeds 40%

J= Estimated value

ND= Not Detected

RL= Reporting Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02A.01		
Matrix:	Water	Sampled:	10/03/18
Units:	ug/L	Received:	10/03/18
Diln Fac:	1.000	Analyzed:	10/05/18
Batch#:	264247		

Field ID: DUP10032018-01
Type: SAMPLE

Lab ID: 303845-004

Analyte	Result	RL	Analysis
Gasoline C7-C12	34 J	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	0.26 J	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	111	79-120	EPA 8015B
Bromofluorobenzene (PID)	94	71-127	EPA 8021B

Type: BLANK

Lab ID: QC950610

Analyte	Result	RL	Analysis
Gasoline C7-C12	16 J	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	0.18 C J	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	107	79-120	EPA 8015B
Bromofluorobenzene (PID)	91	71-127	EPA 8021B

C= Presence confirmed, but RPD between columns exceeds 40%
J= Estimated value
ND= Not Detected
RL= Reporting Limit

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8021B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Batch#:	264247

Type: BS Analyzed: 10/05/18
 Lab ID: QC950606

Analyte	Spiked	Result	%REC	Limits
Benzene	10.00	11.54	115	80-120
Toluene	10.00	10.20	102	80-120
Ethylbenzene	10.00	10.34	103	79-120
m,p-Xylenes	10.00	10.16	102	79-120
o-Xylene	10.00	10.21	102	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	87	71-127

Type: BSD Analyzed: 10/06/18
 Lab ID: QC950607

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	10.00	11.41	114	80-120	1	20
Toluene	10.00	9.926	99	80-120	3	20
Ethylbenzene	10.00	9.672	97	79-120	7	20
m,p-Xylenes	10.00	9.673	97	79-120	5	20
o-Xylene	10.00	9.831	98	80-120	4	20

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	82	71-127

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8015B
Field ID:	BR11-1GW01	Batch#:	264247
MSS Lab ID:	303845-001	Sampled:	10/03/18
Matrix:	Water	Received:	10/03/18
Units:	ug/L	Analyzed:	10/05/18
Diln Fac:	1.000		

Type: MS Lab ID: QC950608

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	31.98	2,000	2,100	103	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	79-120

Type: MSD Lab ID: QC950609

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,128	105	80-120	1	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	79-120

RPD= Relative Percent Difference

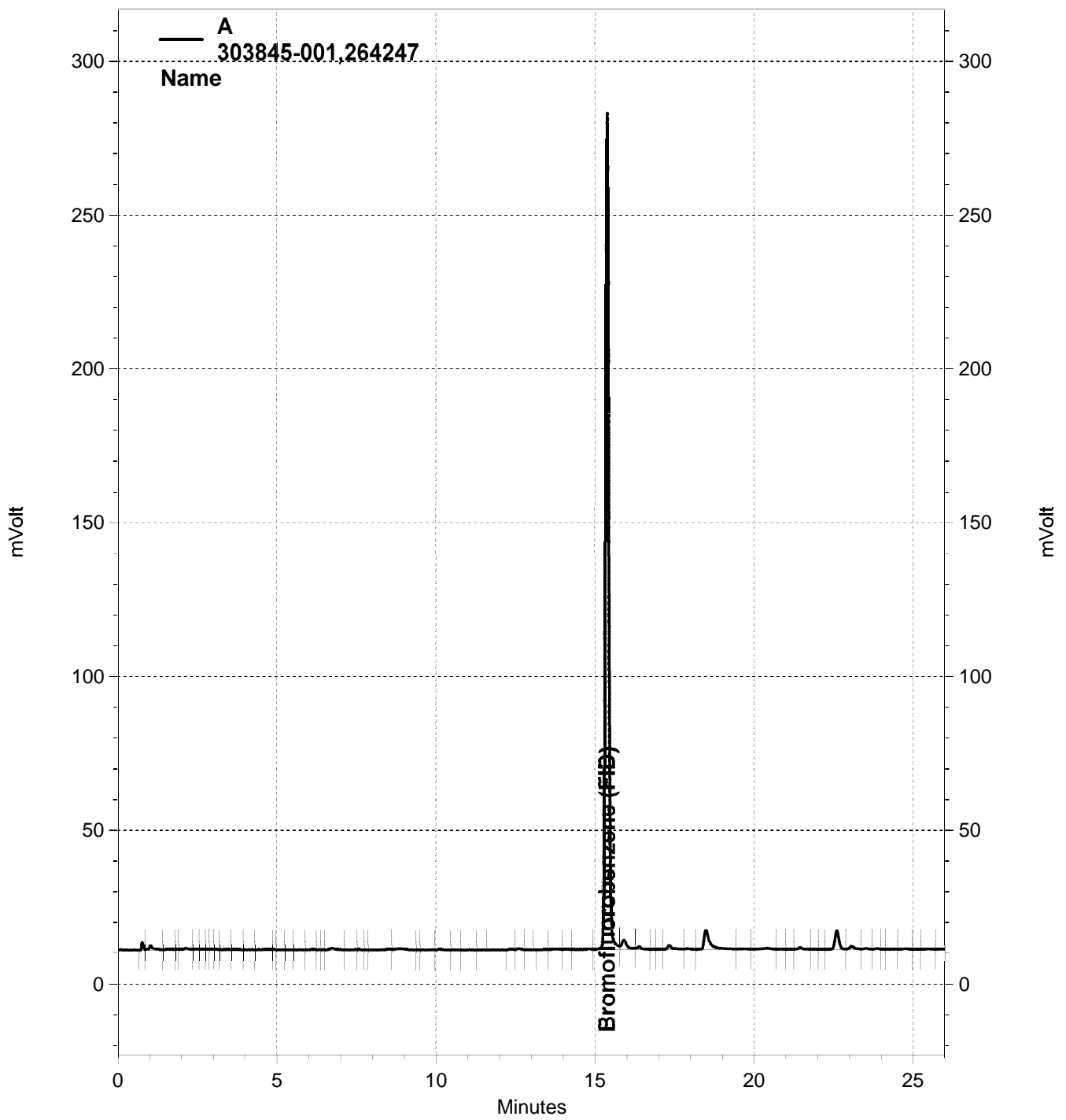
Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

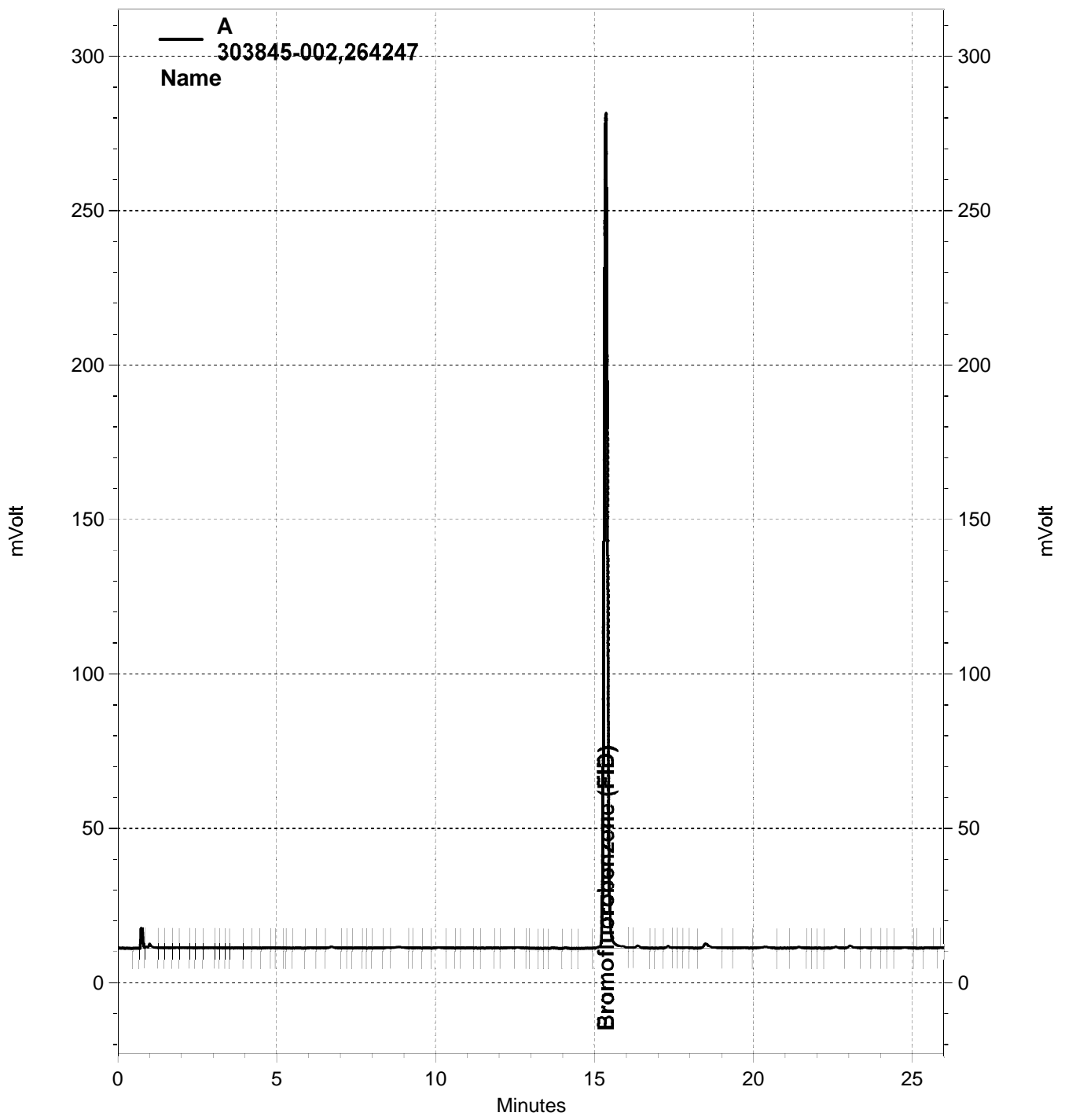
Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC950811	Batch#:	264247
Matrix:	Water	Analyzed:	10/05/18
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,090	104	80-120

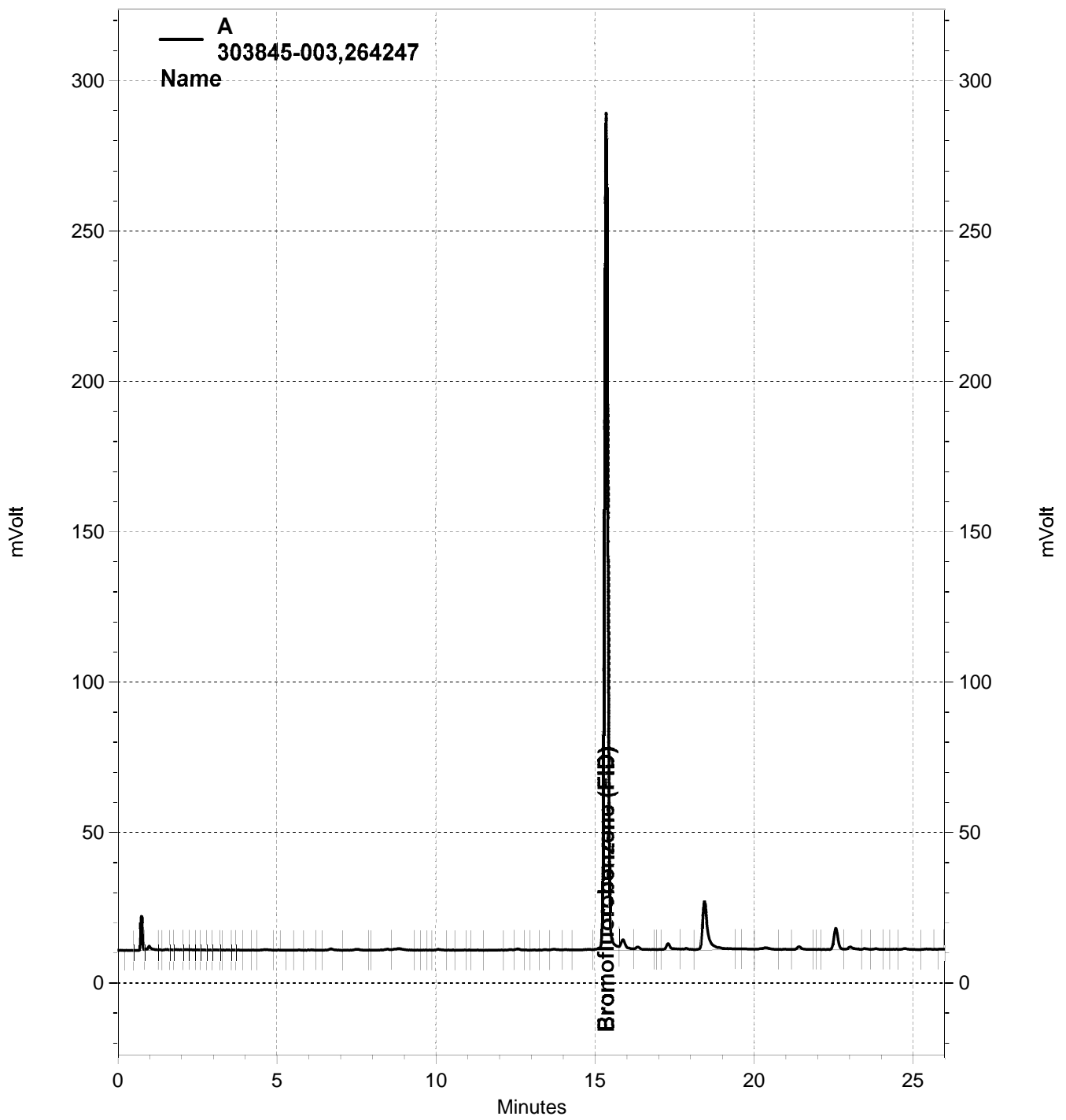
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	79-120



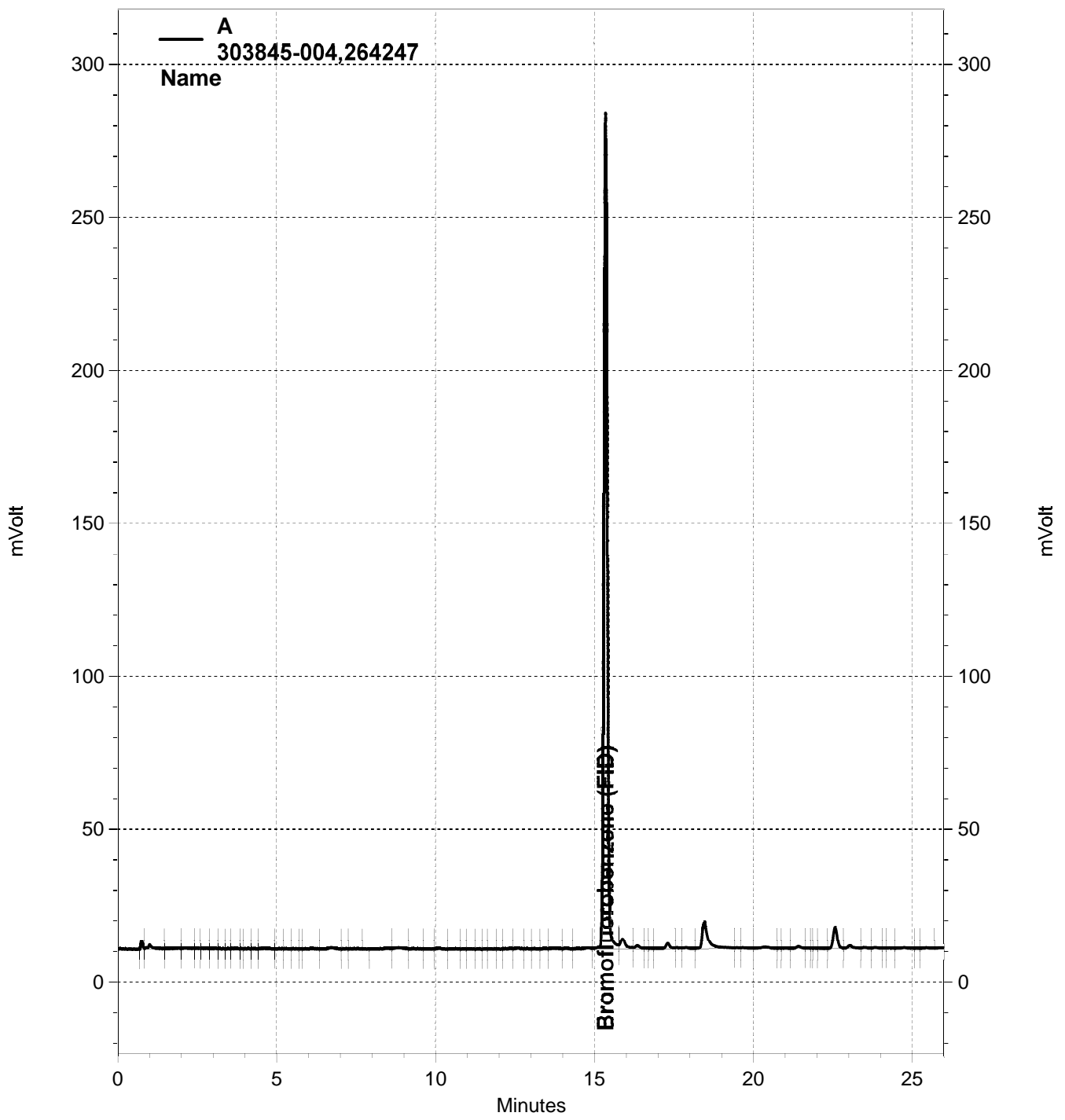
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-008, A



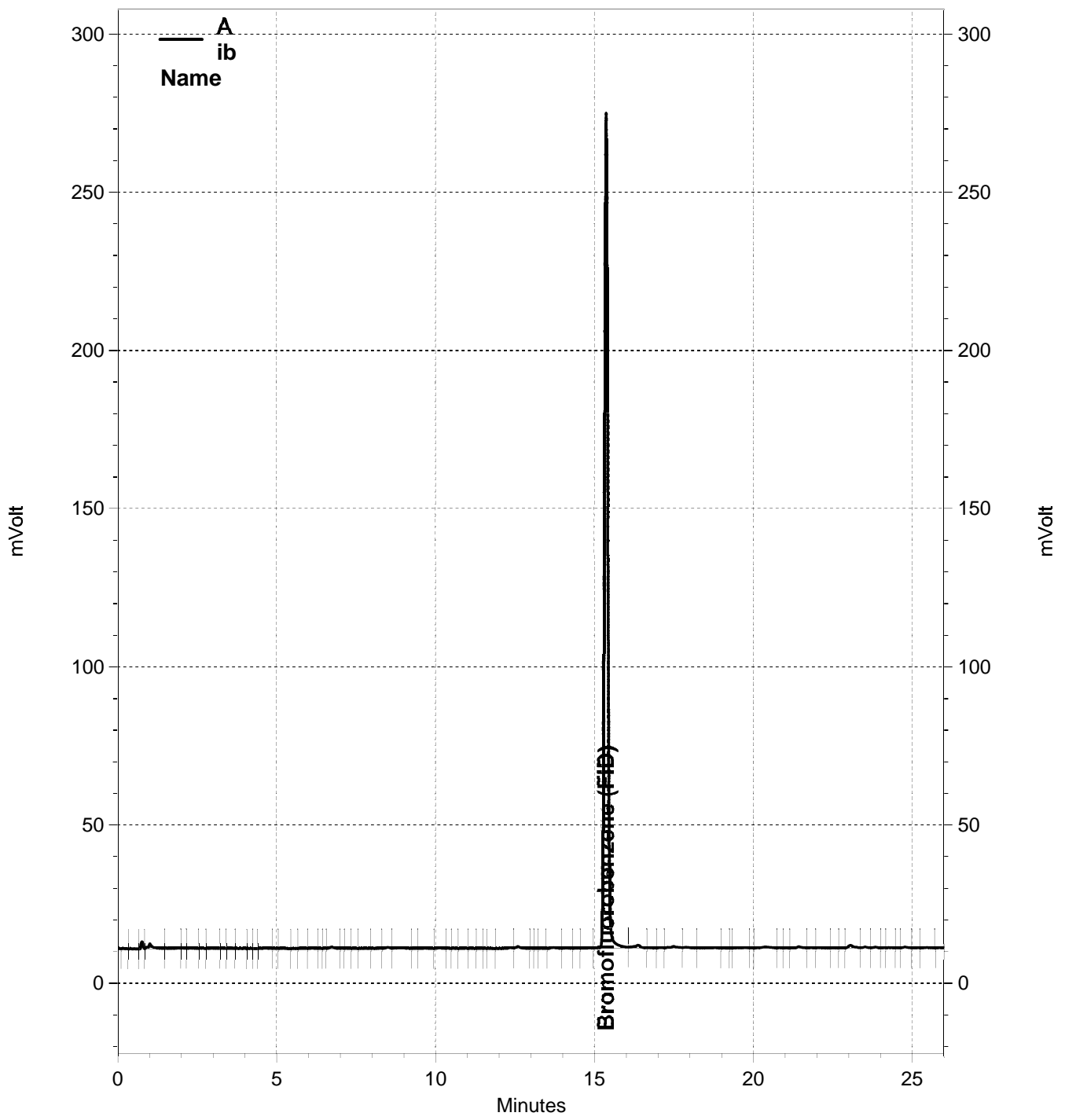
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-009, A



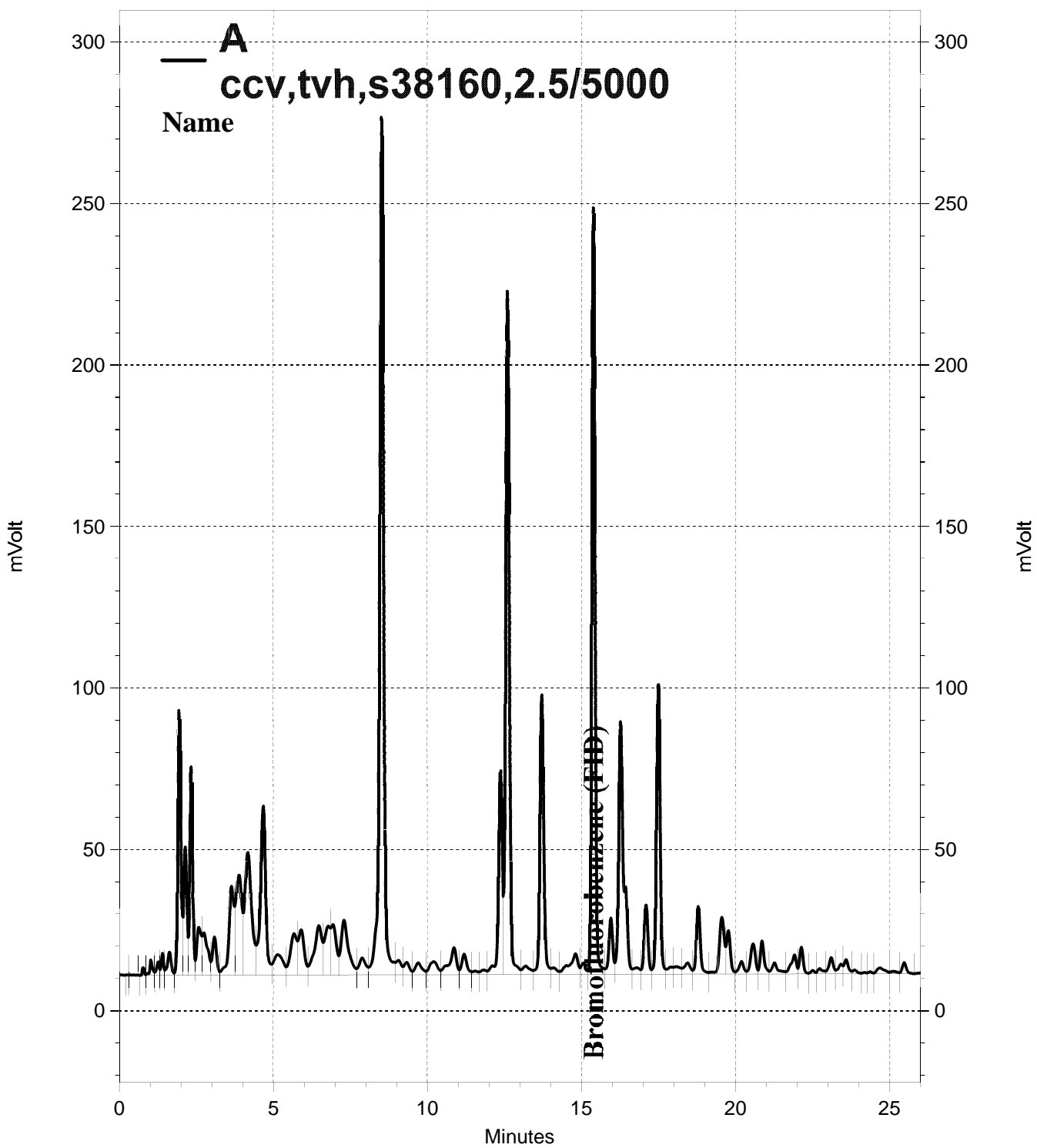
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-010, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-011, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-007, A



A
ccv,tvh,s38160,2.5/5000
Name

— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-003, A

ENTHALPY INITIAL CALIBRATION FOR 303845 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 328359254001
 Units : ng

Name : TVH_249
 Date : 07-SEP-2018 04:20
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	249_020	328359254020	TVH_14	07-SEP-2018 04:20	S38083 (1000X), S37840 (5000X)
L2	249_021	328359254021	TVH_15	07-SEP-2018 04:58	S38082 (1000X), S37840 (5000X)
L3	249_022	328359254022	TVH_16	07-SEP-2018 05:36	S38081 (1000X), S37840 (5000X)
L4	249_023	328359254023	TVH_17	07-SEP-2018 06:15	S38080 (2000X), S37840 (5000X)
L5	249_024	328359254024	TVH_18	07-SEP-2018 06:53	S38080 (1000X), S37840 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2526.6	2192.9	2128.6	2211.8	2121.0	AVRG		4.47E-4		2236.2	7	0.995	20	
Bromofluorobenzene (FID)	A	2087.3	2008.6	1770.6	2075.1	1975.4	AVRG		5.04E-4		1983.4	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	13	2500.0	-2	10000	-5	25000	-1	50000	-5
Bromofluorobenzene (FID)	A	900.00	5	900.00	1	900.00	-11	900.00	5	900.00	0

Analyst: KSM

Date: 09/07/18

Reviewer: TKM

Date: 09/07/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 328359254001

Name : TVH_249
Cal Date : 07-SEP-2018

ICV 328359254026 (249_026 07-SEP-2018) stds: S38065 (1000X), S37840 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	9681	ng	-3	15	

Analyst: KSM

Date: 09/07/18

Reviewer: TKM

Date: 09/07/18

ENTHALPY INITIAL CALIBRATION FOR 303845 GCVOA Water: EPA 8021B

Inst : GC07
 Calnum : 328399506001
 Units : ng

Name : btxe_277
 Date : 05-OCT-2018 03:38
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	277_026	328399506026	BTXE_1	05-OCT-2018 03:38	S37985 (1000X), S37840 (5000X)
L2	277_027	328399506027	MBTXE_2	05-OCT-2018 04:16	S37984 (1250X), S37840 (5000X)
L3	277_028	328399506028	MBTXE_3	05-OCT-2018 04:54	S37984 (500X), S37840 (5000X)
L4	277_029	328399506029	MBTXE_4	05-OCT-2018 05:32	S37984 (125X), S37840 (5000X)
L5	277_030	328399506030	MBTXE_5	05-OCT-2018 06:11	S37983 (1000X), S37840 (5000X)
L6	277_031	328399506031	MBTXE_6	05-OCT-2018 06:49	S37983 (500X), S37840 (5000X)
L7	277_032	328399506032	MBTXE_7	05-OCT-2018 07:27	S37983 (250X), S37840 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2	%RSD	MnR^2	MxRSD	Flg
Benzene	B	9811.2	8675.2	8514.3	8596.3	7314.2	6095.2	6188.0	AVRG		1.27E-4		7884.9	18	0.995	20		
Toluene	B	8193.2	7406.8	7645.5	8481.9	7740.8	7053.3	7770.4	AVRG		1.29E-4		7756.0	6	0.995	20		
Ethylbenzene	B	4922.8	4851.3	6347.0	6832.0	6397.2	6041.9	6617.6	AVRG		1.67E-4		6001.4	13	0.995	20		
m,p-Xylenes	B	7942.0	6189.0	7937.0	8578.1	7868.9	7085.8	7830.5	AVRG		1.31E-4		7633.0	10	0.995	20		
o-Xylene	B	8255.6	6923.6	6703.4	7226.5	6763.0	6209.9	6833.8	AVRG		1.43E-4		6988.0	9	0.995	20		
Bromofluorobenzene (PID)	B	6364.5	6210.5	6379.8	6358.7	6405.0	6361.6	6374.9	AVRG		1.57E-4		6350.7	1	0.995	20		
Benzene	C	576.80	781.90	701.44	781.44	720.25	611.51	626.35	AVRG		0.00146		685.67	12	0.995	20		
Toluene	C	668.40	795.50	703.12	783.94	767.85	713.77	788.48	AVRG		0.00134		745.87	7	0.995	20		
Ethylbenzene	C	568.40	626.50	555.00	638.60	641.89	600.50	663.56	AVRG		0.00163		613.49	7	0.995	20		
m,p-Xylenes	C	860.00	880.10	743.68	798.98	768.76	716.57	794.84	AVRG		0.00126		794.70	7	0.995	20		
o-Xylene	C	568.00	770.20	668.60	700.64	671.00	623.64	688.02	AVRG		0.00149		670.01	9	0.995	20		
Bromofluorobenzene (PID)	C	614.56	604.66	615.91	613.48	609.55	603.98	603.45	AVRG		0.00164		609.37	1	0.995	20		

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Benzene	B	2.5000	24	10.000	10	25.000	8	100.00	9	500.00	-7	1000.0	-23	2000.0	-22
Toluene	B	2.5000	6	10.000	-5	25.000	-1	100.00	9	500.00	0	1000.0	-9	2000.0	0
Ethylbenzene	B	2.5000	-18	10.000	8	25.000	6	100.00	14	500.00	7	1000.0	1	2000.0	10
m,p-Xylenes	B	2.5000	4	10.000	10	25.000	4	100.00	12	500.00	3	1000.0	-7	2000.0	3
o-Xylene	B	2.5000	18	10.000	-1	25.000	-4	100.00	3	500.00	-3	1000.0	-11	2000.0	-2
Bromofluorobenzene (PID)	B	900.00	0	900.00	-2	900.00	0	900.00	0	900.00	1	900.00	0	900.00	0
Benzene	C	2.5000	-16	10.000	14	25.000	2	100.00	14	500.00	5	1000.0	-11	2000.0	-9
Toluene	C	2.5000	-10	10.000	7	25.000	-6	100.00	5	500.00	3	1000.0	-4	2000.0	6
Ethylbenzene	C	2.5000	-7	10.000	2	25.000	-10	100.00	4	500.00	5	1000.0	-2	2000.0	8
m,p-Xylenes	C	2.5000	8	10.000	11	25.000	-6	100.00	1	500.00	-3	1000.0	-10	2000.0	0
o-Xylene	C	2.5000	-15	10.000	15	25.000	0	100.00	5	500.00	0	1000.0	-7	2000.0	3
Bromofluorobenzene (PID)	C	900.00	1	900.00	-1	900.00	1	900.00	1	900.00	0	900.00	-1	900.00	-1

EAH 10/08/18 : Corrected automatically drawn baseline for Ch. B in BTXE_1 (277_026).

EAH 10/08/18 : Corrected automatically drawn baseline for Ch. B in MBTXE_2 (277_027).

Analyst: JM2

Date: 10/05/18

Reviewer: EAH

Date: 10/08/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCVOA Water
EPA 8021B

Inst : GC07
Calnum : 328399506001

Name : btxe_277
Cal Date : 05-OCT-2018

ICV 328399506034 (277_034 05-OCT-2018) stds: S37674 (1000X), S37840 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	100.0	106.7	ng	7	15	
Toluene	B	100.0	106.1	ng	6	15	
Ethylbenzene	B	100.0	110.0	ng	10	15	
m,p-Xylenes	B	200.0	210.1	ng	5	15	
o-Xylene	B	100.0	101.8	ng	2	15	
Benzene	C	100.0	111.1	ng	11	15	
Toluene	C	100.0	98.14	ng	-2	15	
Ethylbenzene	C	100.0	101.0	ng	1	15	
m,p-Xylenes	C	200.0	190.9	ng	-5	15	
o-Xylene	C	100.0	99.97	ng	0	15	

ALE: 10/05/18 * JM2: 10/05/18 EAH: 10/08/18

Carbon Marker Run

Inst : GC07
 Seqnum : 328359254028
 Standards: S36859 (1000X), S37840 (5000X)

File : 249_028

IDF : 1.0
 Time : 07-SEP-2018 09:26

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C6 - n-Hexane	A	2.317	+/- 6s (0.100m)	2.217 - 2.417
C7 - n-Heptane	A	4.633	+/- 6s (0.100m)	4.533 - 4.733
C8 - n-Octane	A	8.333	+/- 6s (0.100m)	8.233 - 8.433
C10 - n-Decane	A	16.15	+/- 6s (0.100m)	16.050 - 16.250
C12 - n-Dodecane	A	23.1	+/- 6s (0.100m)	23.000 - 23.200

Carbon Range	Channel	Range Start	Range Stop
Gasoline C6-C10	A	2.217	16.250
Gasoline C6-C12	A	2.217	23.200
Gasoline C7-C12	A	4.533	23.200
JP-4 C7-C12	A	4.533	23.200

EZChrom method retention times successfully validated.

Analyst: KSM

Date: 09/07/18

Reviewer: TKM

Date: 09/07/18

ENTHALPY SPIKE USER REPORT FOR 303845 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC950586 IDF : 1.0
 Seqnum : 328401045003.2 File : 278_003 Time : 05-OCT-2018 13:22
 Cal : 328359254001 Caldate : 07-SEP-2018
 Standards: S38160 (2000X), S37840 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2236.2	2301.0	5000	5145	ng	3	15	u
Bromofluorobenzene (FID)	A	1983.4	1929.5	900.0	875.6	ng	-3	15	u

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

u=use

ENTHALPY SPIKE USER REPORT FOR 303845 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : QC950606 IDF : 1.0
 Seqnum : 328401045004.3 File : 278_004 Time : 05-OCT-2018 14:00
 Cal : 328399506001 Caldate : 05-OCT-2018
 Standards: S37506 (2000X), S37840 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	C	685.67	791.36	50.00	57.71	ng	15	15	u
Benzene	B	7884.9	9109.3	50.00	57.76	ng	16	15	c+ ***
Toluene	C	745.87	760.74	50.00	51.00	ng	2	15	u
Toluene	B	7756.0	9047.0	50.00	58.32	ng	17	15	c+ ***
Ethylbenzene	C	613.49	634.50	50.00	51.71	ng	3	15	u
Ethylbenzene	B	6001.4	7079.4	50.00	58.98	ng	18	15	c+ ***
m,p-Xylenes	C	794.70	807.46	50.00	50.80	ng	2	15	u
m,p-Xylenes	B	7633.0	9205.3	50.00	60.30	ng	21	15	c+ ***
o-Xylene	C	670.01	684.04	50.00	51.05	ng	2	15	u
o-Xylene	B	6988.0	7677.6	50.00	54.93	ng	10	15	
Bromofluorobenzene (PID)	C	609.37	531.14	900.0	784.5	ng	-13	15	u
Bromofluorobenzene (PID)	B	6350.7	5547.7	900.0	786.2	ng	-13	15	

JM2 10/05/18 : Reporting from Channel C for all BTXE analytes using Channel B as confirmation. [general version]

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

+ = high bias c = CCV u = use

ENTHALPY SPIKE USER REPORT FOR 303845 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC950811 IDF : 1.0
 Seqnum : 328401045018.5 File : 278_018 Time : 05-OCT-2018 23:05
 Cal : 328359254001 Caldate : 07-SEP-2018
 Standards: S38160 (1000X), S37840 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2236.2	2336.7	10000	10450	ng	4	15	u
Bromofluorobenzene (FID)	A	1983.4	2258.1	900.0	1025	ng	14	15	u

Analyst: JM2 Date: 10/08/18 Reviewer: EAH Date: 10/08/18

u=use

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328401045021 File : 278_021 Time : 06-OCT-2018 00:59
 Cal : 328399506001 Caldate : 05-OCT-2018
 Standards: S37506 (1000X), S37840 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	B	7884.9	8506.2	100.0	107.9	ng	8	15	
Toluene	B	7756.0	8126.9	100.0	104.8	ng	5	15	
Ethylbenzene	B	6001.4	6611.9	100.0	110.2	ng	10	15	
m,p-Xylenes	B	7633.0	7940.1	100.0	104.0	ng	4	15	
o-Xylene	B	6988.0	6808.9	100.0	97.44	ng	-3	15	
Bromofluorobenzene (PID)	B	6350.7	5150.2	900.0	729.9	ng	-19	15	c-
Benzene	C	685.67	777.70	100.0	113.4	ng	13	15	
Toluene	C	745.87	719.48	100.0	96.46	ng	-4	15	
Ethylbenzene	C	613.49	594.41	100.0	96.89	ng	-3	15	
m,p-Xylenes	C	794.70	743.65	100.0	93.58	ng	-6	15	
o-Xylene	C	670.01	636.41	100.0	94.98	ng	-5	15	
Bromofluorobenzene (PID)	C	609.37	495.97	900.0	732.5	ng	-19	15	c-

ALE 10/08/18 [Bromofluorobenzene (PID) B]: Passes control limits.

ALE 10/08/18 [Bromofluorobenzene (PID) C]: Passes control limits.

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

--low bias c=CCV

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328359254

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 09/06/18 11:34
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	249_001	X	CMARKER				09/06/18 11:34	1.0	1 2	
002	249_002	X	BTXE				09/06/18 12:12	1.0	3 2	
003	249_003	CCV	TVH				09/06/18 12:50	1.0	4 2	
004	249_004	CCV/BS	QC946630		Oil	263233	09/06/18 13:28	1.0	3 2	
005	249_005	CCV	TVH				09/06/18 14:07	1.0	4 2	
006	249_006	IB					09/06/18 14:45	1.0	2	
007	249_007	BLANK	QC946632		Oil	263233	09/06/18 15:40	1.0	2	
008	249_008	PREPBLK	QC946633	M	Oil	263233	09/06/18 16:34	25.0	2	
009	249_009	SAMPLE	302941-001	M	Oil	263233	09/06/18 21:19	5000	2	diluted (client history)
010	249_010	SAMPLE	302941-002	M	Oil	263233	09/06/18 21:57	5000	2	diluted (client history)
011	249_011	SAMPLE	302941-003	M	Oil	263233	09/06/18 22:36	5000	2	diluted (client history)
012	249_012	SAMPLE	302941-004	M	Oil	263233	09/06/18 23:14	5000	2	sh , diluted (client history)
013	249_013	SAMPLE	302941-005	M	Oil	263233	09/06/18 23:52	5000	2	sh , diluted (client history)
014	249_014	BSD	QC946631		Oil	263233	09/07/18 00:30	1.0	3 2	
015	249_015	CCV	BTXE				09/07/18 01:08	1.0	3 2	
016	249_016	IB					09/07/18 01:47	1.0	2	
017	249_017	IB					09/07/18 02:25	1.0	2	
018	249_018	IB					09/07/18 03:03	1.0	2	
019	249_019	IB	CALIB				09/07/18 03:42	1.0	2	
020	249_020	ICAL	TVH_14				09/07/18 04:20	1.0	5 2	
021	249_021	ICAL	TVH_15				09/07/18 04:58	1.0	6 2	
022	249_022	ICAL	TVH_16				09/07/18 05:36	1.0	7 2	
023	249_023	ICAL	TVH_17				09/07/18 06:15	1.0	8 2	
024	249_024	ICAL	TVH_18				09/07/18 06:53	1.0	8 2	
025	249_025	IB					09/07/18 07:32	1.0	2	
026	249_026	ICV	TVH				09/07/18 08:10	1.0	9 2	
027	249_027	X	ICV				09/07/18 08:48	1.0	9 2	
028	249_028	CMARKER					09/07/18 09:26	1.0	1 2	

JM2 09/06/18 : Voided run 2, analytes out high, adjusted the voltage.

JM2 09/07/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 28.

Reviewed by: JM2 Date: 09/07/18

Standards used: 1=S36859 2=S37840 3=S37506 4=S38160 5=S38083 6=S38082 7=S38081 8=S38080 9=S38065

Flags used: sh=out of sample hold

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328399506

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 10/04/18 10:26
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	277_001	IB				10/04/18 10:26	1.0	1	
003	277_003	IB				10/04/18 12:52	1.0	1	
004	277_004	IB				10/04/18 13:31	1.0	1	
005	277_005	X	CMARKER			10/04/18 14:09	1.0	2 1	
006	277_006	X	BTXE			10/04/18 14:47	1.0	3 1	
007	277_007	CCV/BS	QC950431	Water	264203	10/04/18 15:25	1.0	4 1	
008	277_008	BSD	QC950432	Water	264203	10/04/18 16:03	1.0	4 1	
009	277_009	BLANK	QC950435	Water	264203	10/04/18 16:41	1.0	1	
010	277_010	LOQ	303744-002	Water	264203	10/04/18 17:29	1.0	5 1	
011	277_011	MSS	303768-003	Water	264203	10/04/18 18:07	1.0	1	
012	277_012	SAMPLE	303768-005	Water	264203	10/04/18 18:45	1.0	1	
013	277_013	SAMPLE	303768-007	Water	264203	10/04/18 19:23	1.0	1	
014	277_014	SAMPLE	303778-001	Water	264203	10/04/18 20:01	1.0	1	
015	277_015	MS	QC950433	Water	264203	10/04/18 20:39	1.0	4 1	
016	277_016	MSD	QC950434	Water	264203	10/04/18 21:17	1.0	4 1	
017	277_017	CCV	TVH			10/04/18 21:55	1.0	4 1	
018	277_018	X	CMARKER			10/04/18 22:33	1.0	2 1	
019	277_019	SAMPLE	303857-005	Water	264203	10/04/18 23:12	5.0	1	diluted (odor)
020	277_020	SAMPLE	303857-006	Water	264203	10/04/18 23:50	5.0	1	diluted (odor)
021	277_021	SAMPLE	303857-007	Water	264203	10/05/18 00:28	1.0	1	
022	277_022	SAMPLE	303843-009	Water	264203	10/05/18 01:06	1.0	1	
023	277_023	CCV	TVH			10/05/18 01:44	1.0	4 1	
024	277_024	X	CMARKER			10/05/18 02:22	1.0	2 1	
025	277_025	IB	CALIB			10/05/18 03:00	1.0	1	
026	277_026	ICAL	BTXE_1			10/05/18 03:38	1.0	6 1	
027	277_027	ICAL	MBTXE_2			10/05/18 04:16	1.0	7 1	
028	277_028	ICAL	MBTXE_3			10/05/18 04:54	1.0	7 1	
029	277_029	ICAL	MBTXE_4			10/05/18 05:32	1.0	7 1	
030	277_030	ICAL	MBTXE_5			10/05/18 06:11	1.0	8 1	
031	277_031	ICAL	MBTXE_6			10/05/18 06:49	1.0	8 1	
032	277_032	ICAL	MBTXE_7			10/05/18 07:27	1.0	8 1	
033	277_033	IB				10/05/18 08:05	1.0	1	
034	277_034	ICV	MBTXE			10/05/18 08:43	1.0	9 1	
035	277_035	X	ICV			10/05/18 09:21	1.0	9 1	

ALE 10/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 35.

ALE 10/05/18 : Voided run 6, analytes out low.

Reviewed by: ALE Date: 10/05/18

Standards used: 1=S37840 2=S37911 3=S37506 4=S38160 5=S38083 6=S37985 7=S37984 8=S37983 9=S37674

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 328401045

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 10/05/18 12:05
 SOP Version : TVH_BTXE_rv23

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	278_001	X	CMARKER			10/05/18 12:05	1.0	1 2	
002	278_002	X	BTXE			10/05/18 12:43	1.0	3 2	
003	278_003	CCV/BS	QC950586	Water	264242	10/05/18 13:22	1.0	4 2	
004	278_004	CCV/BS	QC950606	Water	264247	10/05/18 14:00	1.0	3 2	
005	278_005	BSD	QC950587	Water	264242	10/05/18 14:38	1.0	4 2	
006	278_006	BLANK	QC950588	Water	264242	10/05/18 15:16	1.0	2	
007	278_007	BLANK	QC950610	Water	264247	10/05/18 15:54	1.0	2	
008	278_008	MSS	303845-001	Water	264247	10/05/18 16:42	1.0	2	
009	278_009	SAMPLE	303845-002	Water	264247	10/05/18 17:21	1.0	2	
010	278_010	SAMPLE	303845-003	Water	264247	10/05/18 18:00	1.0	2	
011	278_011	SAMPLE	303845-004	Water	264247	10/05/18 18:38	1.0	2	
012	278_012	SAMPLE	303881-001	Water	264247	10/05/18 19:16	1.0	2	
013	278_013	SAMPLE	303735-017	Water	264247	10/05/18 19:54	9.091	2	
014	278_014	SAMPLE	303735-018	Water	264247	10/05/18 20:33	5.0	2	headspace <= 1 mL
015	278_015	SAMPLE	303896-001	Water	264242	10/05/18 21:11	1.0	2	sh , pH > 2
016	278_016	MS	QC950608	Water	264247	10/05/18 21:49	1.0	4 2	
017	278_017	MSD	QC950609	Water	264247	10/05/18 22:27	1.0	4 2	
018	278_018	CCV/LCS	QC950811	Water	264247	10/05/18 23:05	1.0	4 2	
019	278_019	X	CMARKER			10/05/18 23:43	1.0	1 2	
020	278_020	BSD	QC950607	Water	264247	10/06/18 00:21	1.0	3 2	
021	278_021	CCV	BTXE			10/06/18 00:59	1.0	3 2	
022	278_022	SAMPLE	303896-002	Water	264242	10/06/18 01:38	1.0	2	sh , pH > 2
023	278_023	SAMPLE	303896-003	Water	264242	10/06/18 02:16	1.0	2	sh , pH > 2
024	278_024	SAMPLE	303896-004	Water	264242	10/06/18 02:54	1.0	2	sh , pH > 2
025	278_025	SAMPLE	303896-005	Water	264242	10/06/18 03:32	1.0	2	sh , pH > 2
026	278_026	SAMPLE	303896-006	Water	264242	10/06/18 04:10	1.0	2	sh , pH > 2
027	278_027	SAMPLE	303896-007	Water	264242	10/06/18 04:48	1.0	2	sh , pH > 2
028	278_028	SAMPLE	303896-008	Water	264242	10/06/18 05:26	1.0	2	sh , pH > 2
029	278_029	SAMPLE	303896-009	Water	264242	10/06/18 06:04	1.0	2	sh , pH > 2
030	278_030	SAMPLE	303896-010	Water	264242	10/06/18 06:42	1.0	2	sh , pH > 2
031	278_031	SAMPLE	303901-001	Water	264242	10/06/18 07:20	1.0	2	sh , pH > 2
032	278_032	CCV	TVH			10/06/18 07:58	1.0	4 2	
033	278_033	X	CMARKER			10/06/18 08:36	1.0	1 2	
034	278_034	SAMPLE	303901-002	Water	264242	10/06/18 09:14	1.0	2	sh , pH > 2
035	278_035	SAMPLE	303901-003	Water	264242	10/06/18 09:52	1.0	2	sh , pH > 2
036	278_036	SAMPLE	303901-004	Water	264242	10/06/18 10:30	1.0	2	sh , pH > 2
037	278_037	SAMPLE	303901-005	Water	264242	10/06/18 11:08	1.0	2	sh , pH > 2
038	278_038	SAMPLE	303901-006	Water	264242	10/06/18 11:46	1.0	2	sh , pH > 2
039	278_039	SAMPLE	303901-007	Water	264242	10/06/18 12:24	1.0	2	sh , pH > 2
040	278_040	SAMPLE	303901-008	Water	264242	10/06/18 13:02	1.0	2	sh , pH > 2
041	278_041	SAMPLE	303901-009	Water	264242	10/06/18 13:40	1.0	2	sh , pH > 2
042	278_042	SAMPLE	303901-010	Water	264242	10/06/18 14:18	1.0	2	sh , pH > 2
043	278_043	SAMPLE	303915-001	Water	264247	10/06/18 14:56	1.0	2	
044	278_044	CCV	TVH			10/06/18 15:34	1.0	4 2	
045	278_045	X	CMARKER			10/06/18 16:12	1.0	1 2	
046	278_046	SAMPLE	303915-002	Water	264247	10/06/18 16:50	1.0	2	
047	278_047	SAMPLE	303905-001	Water	264247	10/06/18 17:28	1.0	2	sh , pH > 2
048	278_048	SAMPLE	303905-002	Water	264247	10/06/18 18:06	1.0	2	sh , pH > 2
049	278_049	SAMPLE	303905-003	Water	264247	10/06/18 18:45	1.0	2	sh , pH > 2
050	278_050	SAMPLE	303905-004	Water	264247	10/06/18 19:22	1.0	2	sh , pH > 2
051	278_051	SAMPLE	303905-005	Water	264247	10/06/18 20:01	1.0	2	sh , pH > 2
052	278_052	SAMPLE	303905-006	Water	264247	10/06/18 20:38	1.0	2	sh , pH > 2

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #: 09-08-2017

pH paper (<2.5SU), lot: 220416

pH paper (0-14SU), lot: 08D40681

	Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared WMS/VOA?	# unused vials remaining	RR #	DF	Comments	hold	due	used	Initial/Date
1	303777-2	F	Y											Jr 10/13/18
2	↓ -3	↓	↓											
3	↓ -4	↓	↓											
4	↓ -5	B	↓											
5	303777-3	J	Y											
6	↓ -3 MS	↓	↓											10/7/18 JMN
7	↓ -3 MSB	↓	↓											
8	303768-3	B	Y											
9	↓ -5	↓	↓											
10	↓ -7	↓	↓											
11	↓ -3 MS	↓	↓											
12	↓ -3 MSB	↓	↓											
13	303778-1	G	Y											
14	303857-5	D	Y						1000/5000	OR OR				
15	↓ -6	↓	↓						↓	↓				
16	↓ -7	↓	↓											
17	303843-9	A	Y											
18	303799-1	I	Y											
19	↓ 2	E	↓											
20	↓ 3	F	↓											
21	↓ 1 MS	I	↓											
22	↓ 1 MSB	I	↓											
23	303735-17	D	↓						SS0/1000					
24	↓ 18	D	↓		N				1000/5000	ml				
25	303887-1	A	Y											
26	303896-1	A	N	II						mp				ACE 10/15/18
27	↓ 2	↓	↓											

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #: 09-08-2017

pH paper (<2.5SU), lot: 220416
 pH paper (0-14SU), lot: 108PH0681

Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSVOA?	# unused vials remaining	RR #	DF	Comments	hold	due	Initial/Date
303896-3	A	N	11						np			ALE01518
	4		↓									
	5		7									
	6		11									
	7											
	8											
	9											
	10											
303901-1												
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10		10									
	↓		10									
303845-1	B	V										DMC 10/5/18
	↓											
	-2											
	↓											
	-3											
	↓											
	-4											
	↓											
	-1 MS											
	↓											
	-1 MS											
	↓											
	-1 MS											
	↓											
303881-1	A	↓										
303799-2	D	V										
303915-1	B	↓										

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #: 09-08-2017

pH paper (<2.5SU), lot: 220416

pH paper (0-14SU), lot: 0BDH0681

	Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSS/VOA?	# unused vials remaining	RR #	DF	Comments	hold	due	log of \$	Initial/Date
1	303777-2	F	Y											JTC 10/3/18
2	↓ -3	↓	↓											↓
3	↓ -4	↓	↓											↓
4	↓ -5	B	↓											↓
5	303777-3	J	Y											10/9/18 JMC
6	↓ -3 MS	↓	↓											↓
7	↓ -3 MS	↓	↓											↓
8	303768-3	B	Y											↓
9	↓ -5	↓	↓											↓
10	↓ -7	↓	↓											↓
11	↓ -3 MS	↓	↓											↓
12	↓ -3 MS	↓	↓											↓
13	303778-1	G	Y											↓
14	303857-5	D	Y						1000/5000	OR OR				↓
15	↓ -6	↓	↓						↓	↓				↓
16	↓ -7	↓	↓											↓
17	303843-9	A	Y											↓
18	303799-1	I	Y											↓
19	↓ 2	E	↓											↓
20	↓ 3	F	↓											↓
21	↓ 1 MS	I	↓											↓
22	↓ 1 MS	I	↓											↓
23	303735-17	D	↓						SS9/1000					↓
24	↓ 18	D	↓		N				1000/5000	ml				↓
25	303887-1	A	Y											↓
26	303896-1	A	N	↓						np				ME 10/15/18
27	↓ 2	↓	↓	↓										↓

REPORTING SUMMARY FOR 303845 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
303845-001	Gasoline C7-C12	GC07	A	10/05/18 16:42
303845-001	Benzene	GC07	C	10/05/18 16:42
303845-001	Toluene	GC07	C	10/05/18 16:42
303845-001	Ethylbenzene	GC07	C	10/05/18 16:42
303845-001	m,p-Xylenes	GC07	C	10/05/18 16:42
303845-001	o-Xylene	GC07	C	10/05/18 16:42
303845-001	Bromofluorobenzene (FID)	GC07	A	10/05/18 16:42
303845-001	Bromofluorobenzene (PID)	GC07	C	10/05/18 16:42
303845-002	Gasoline C7-C12	GC07	A	10/05/18 17:21
303845-002	Benzene	GC07	C	10/05/18 17:21
303845-002	Toluene	GC07	C	10/05/18 17:21
303845-002	Ethylbenzene	GC07	C	10/05/18 17:21
303845-002	m,p-Xylenes	GC07	C	10/05/18 17:21
303845-002	o-Xylene	GC07	C	10/05/18 17:21
303845-002	Bromofluorobenzene (FID)	GC07	A	10/05/18 17:21
303845-002	Bromofluorobenzene (PID)	GC07	C	10/05/18 17:21
303845-003	Gasoline C7-C12	GC07	A	10/05/18 18:00
303845-003	Benzene	GC07	C	10/05/18 18:00
303845-003	Toluene	GC07	C	10/05/18 18:00
303845-003	Ethylbenzene	GC07	C	10/05/18 18:00
303845-003	m,p-Xylenes	GC07	C	10/05/18 18:00
303845-003	o-Xylene	GC07	C	10/05/18 18:00
303845-003	Bromofluorobenzene (FID)	GC07	A	10/05/18 18:00
303845-003	Bromofluorobenzene (PID)	GC07	C	10/05/18 18:00
303845-004	Gasoline C7-C12	GC07	A	10/05/18 18:38
303845-004	Benzene	GC07	C	10/05/18 18:38
303845-004	Toluene	GC07	C	10/05/18 18:38
303845-004	Ethylbenzene	GC07	C	10/05/18 18:38
303845-004	m,p-Xylenes	GC07	C	10/05/18 18:38
303845-004	o-Xylene	GC07	C	10/05/18 18:38
303845-004	Bromofluorobenzene (FID)	GC07	A	10/05/18 18:38
303845-004	Bromofluorobenzene (PID)	GC07	C	10/05/18 18:38
QC950610	Gasoline C7-C12	GC07	A	10/05/18 15:54
QC950610	Benzene	GC07	C	10/05/18 15:54
QC950610	Toluene	GC07	C	10/05/18 15:54
QC950610	Ethylbenzene	GC07	C	10/05/18 15:54
QC950610	m,p-Xylenes	GC07	C	10/05/18 15:54
QC950610	o-Xylene	GC07	C	10/05/18 15:54
QC950610	Bromofluorobenzene (FID)	GC07	A	10/05/18 15:54
QC950610	Bromofluorobenzene (PID)	GC07	C	10/05/18 15:54
QC950606	Benzene	GC07	C	10/05/18 14:00
QC950606	Toluene	GC07	C	10/05/18 14:00
QC950606	Ethylbenzene	GC07	C	10/05/18 14:00
QC950606	m,p-Xylenes	GC07	C	10/05/18 14:00
QC950606	o-Xylene	GC07	C	10/05/18 14:00
QC950606	Bromofluorobenzene (PID)	GC07	C	10/05/18 14:00
QC950607	Benzene	GC07	C	10/06/18 00:21
QC950607	Toluene	GC07	C	10/06/18 00:21

REPORTING SUMMARY FOR 303845 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC950607	Ethylbenzene	GC07	C	10/06/18 00:21
QC950607	m,p-Xylenes	GC07	C	10/06/18 00:21
QC950607	o-Xylene	GC07	C	10/06/18 00:21
QC950607	Bromofluorobenzene (PID)	GC07	C	10/06/18 00:21
QC950608	Gasoline C7-C12	GC07	A	10/05/18 21:49
QC950608	Bromofluorobenzene (FID)	GC07	A	10/05/18 21:49
QC950609	Gasoline C7-C12	GC07	A	10/05/18 22:27
QC950609	Bromofluorobenzene (FID)	GC07	A	10/05/18 22:27
QC950811	Gasoline C7-C12	GC07	A	10/05/18 23:05
QC950811	Bromofluorobenzene (FID)	GC07	A	10/05/18 23:05

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

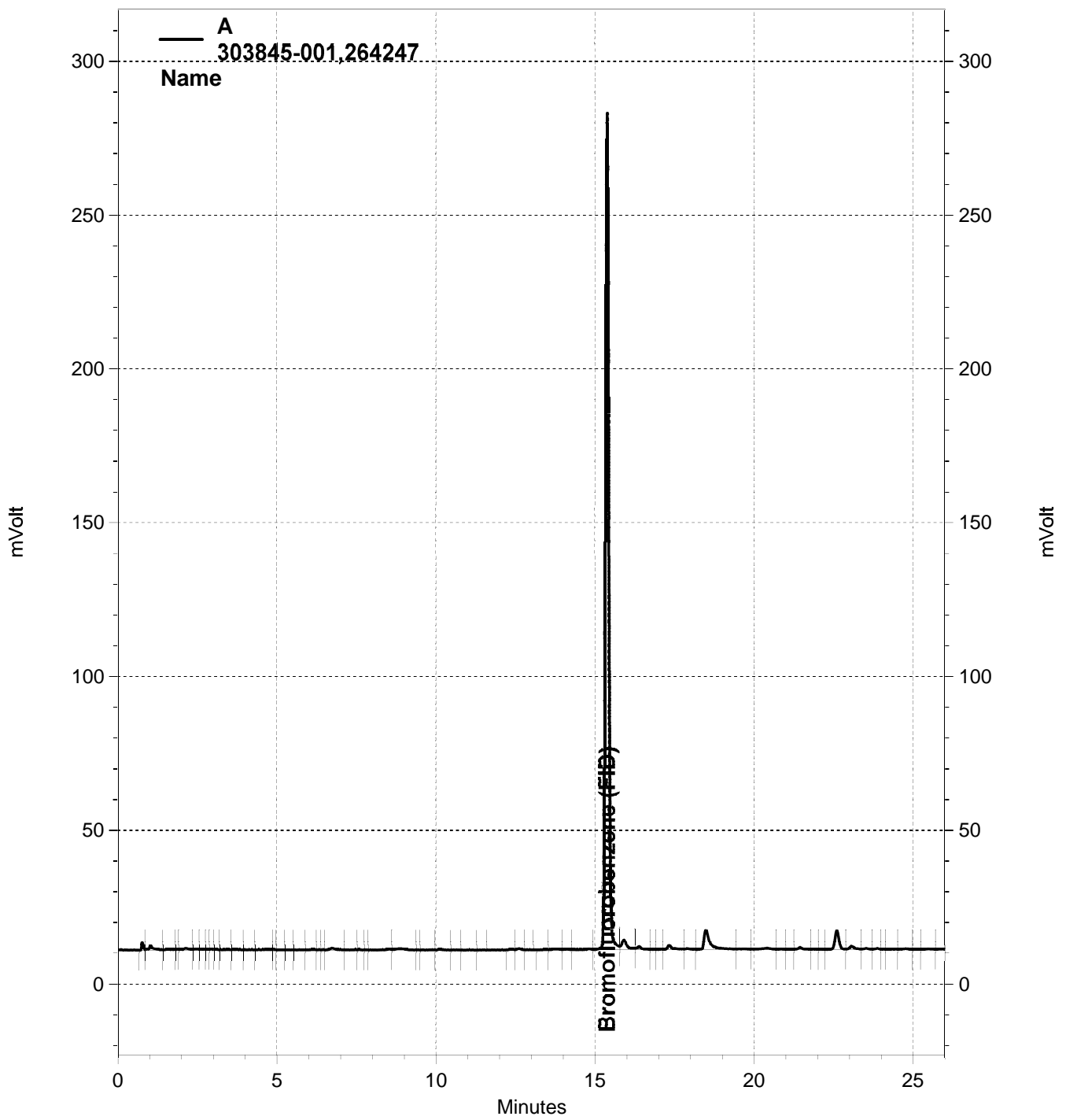
Inst : GC07 Lab ID : 303845-001 Client ID : BR11-1GW01
 Seqnum : 328401045008 Matrix : Water Acct : TRC-SF (MJD)
 File : 278_008 Batch : 264247 Time : 05-OCT-2018 16:42
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328359254001	159.9	32 J			50	16	u
Benzene	C	328399506001	0	ND	0.24 J		0.50		u
Toluene	C	328399506001	0.2574	ND	0.39 J	154%	0.50		u
Ethylbenzene	C	328399506001	0.2885	ND	0.25 J	125%	0.50		u
m,p-Xylenes	C	328399506001	0.3737	ND	0.25 J	109%	0.50	0.18	u
o-Xylene	C	328399506001	0.1298	ND	0.38 J	174%	0.50		u

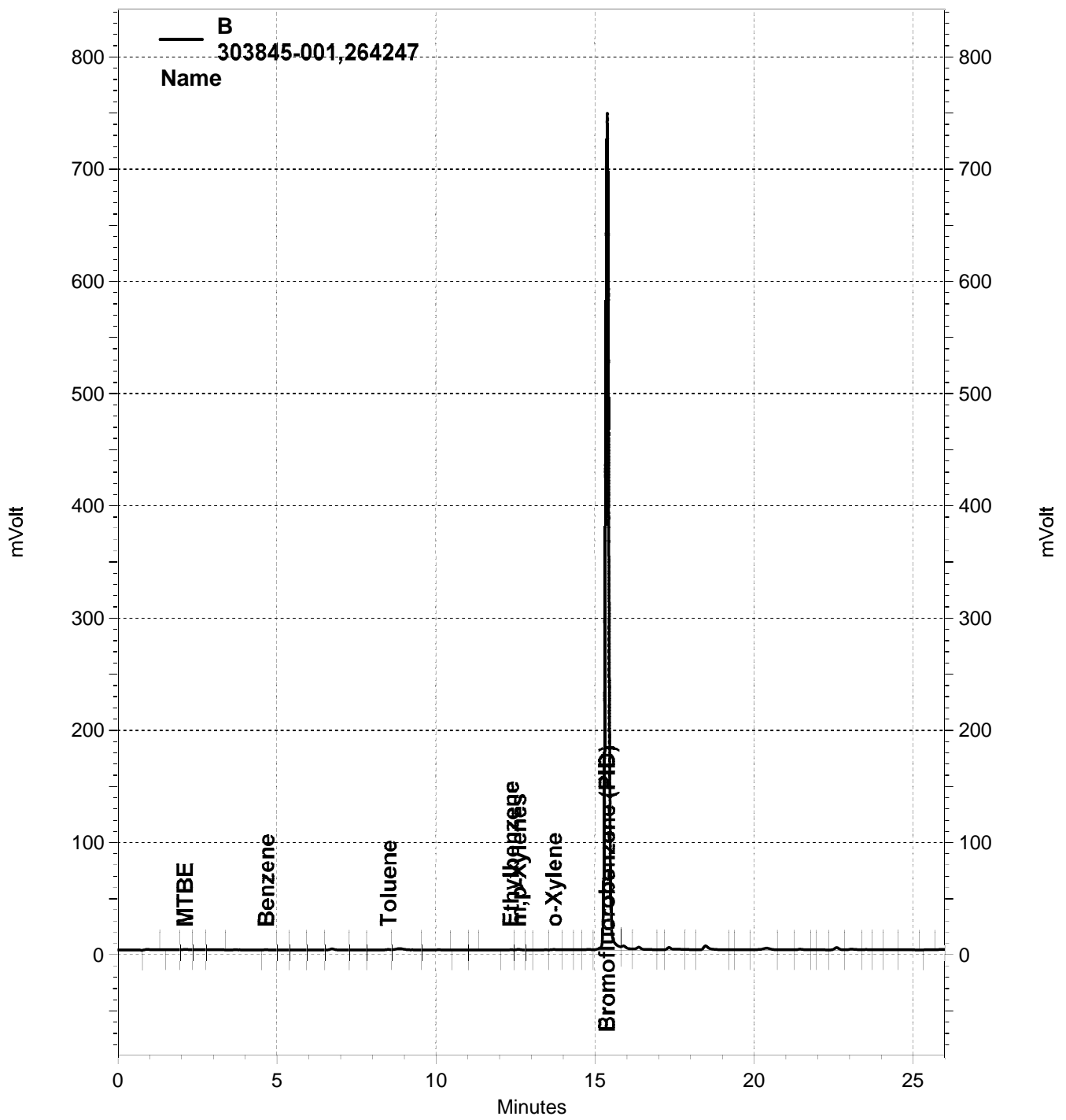
Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328359254001	988.4	180.0	197.7	110	79-120	u
Bromofluorobenzene (PID)	C	328399506001	843.0	180.0	168.6	94	71-127	>c- u

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

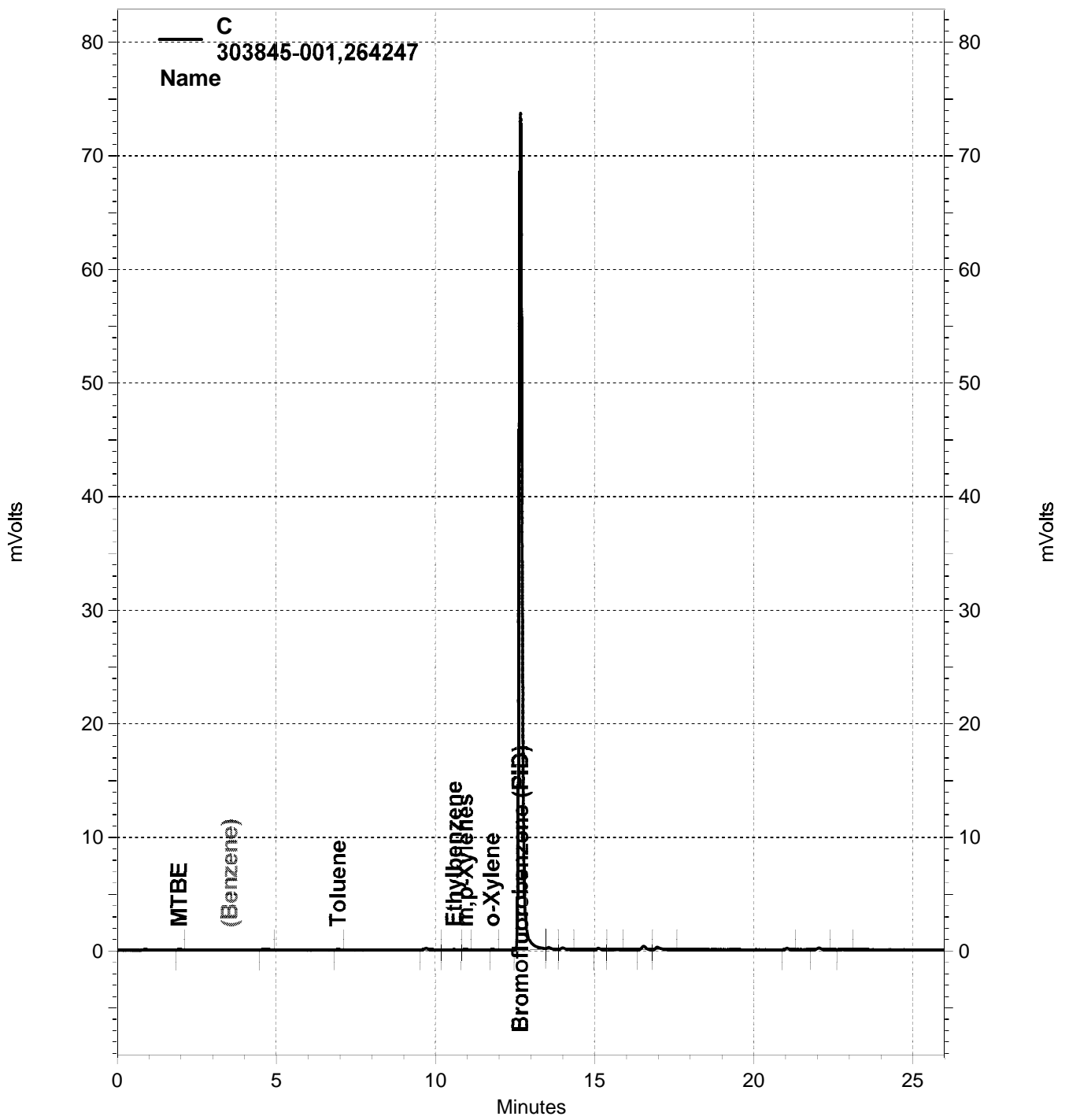
--low bias >=closing c=CCV u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-008, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-008, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-008, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: 303845-001,264247
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-008
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 4:42:58 PM
Analysis Date: 10/5/2018 5:11:42 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.383	1960356	988.373
GAS:6-10			146136	60.874
GAS:6-12			380472	135.683
GAS:7-12			357545	159.893
JP4:7-12			357545	95.366

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	13336	10.381
Benzene	4.683	4.667	9649	1.224
Toluene	8.517	8.483	15268	1.969
Ethylbenzene	12.367	12.350	7457	1.243
m,p-Xylenes	12.600	12.567	9677	1.268
o-Xylene	13.717	13.683	13296	1.903
Bromofluorobenzene (PID)	15.383	15.350	5406030	851.245

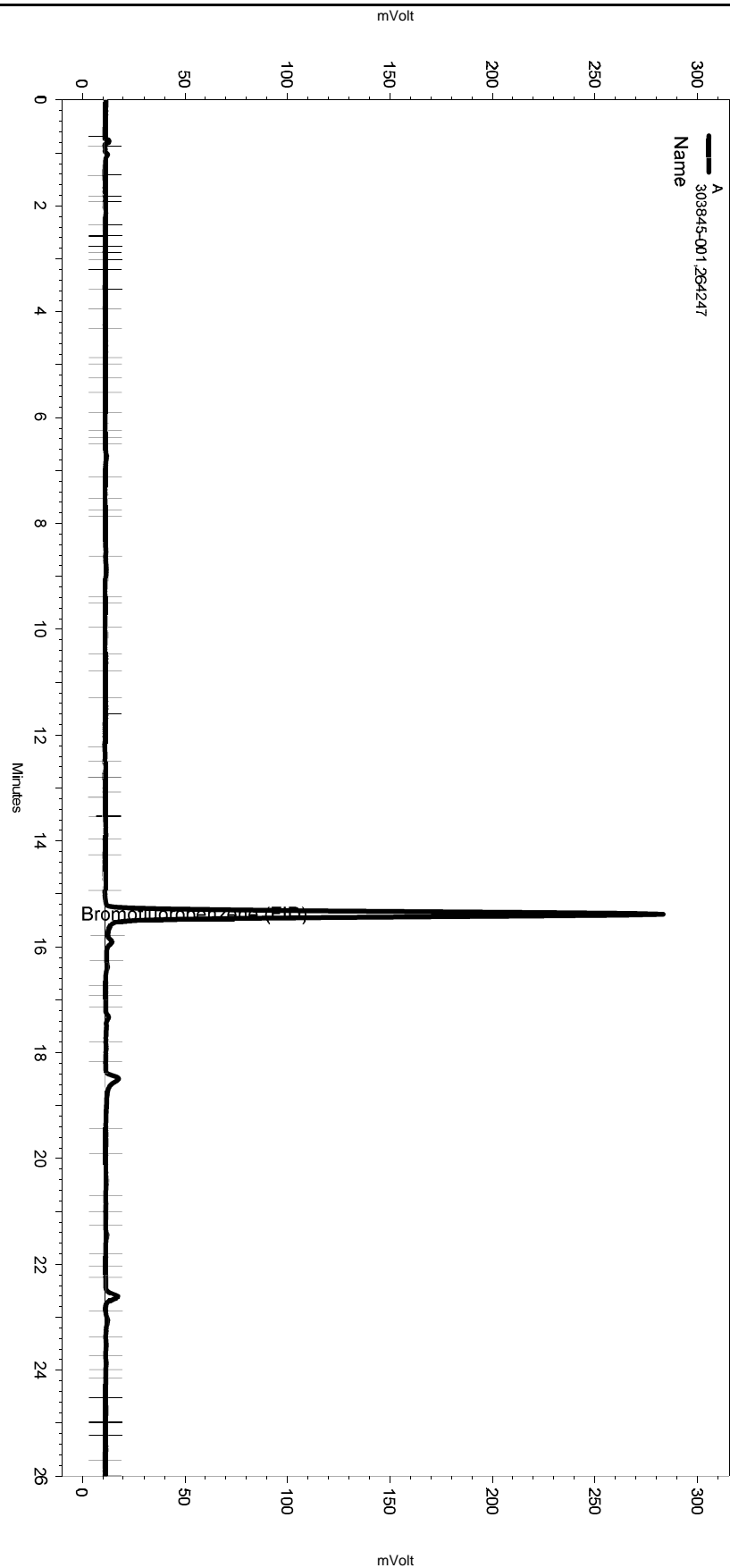
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.950	1.983	231	2.011
Benzene		3.533		0.000 BDL
Toluene	6.933	6.916	192	0.257
Ethylbenzene	10.583	10.566	177	0.289
m,p-Xylenes	10.933	10.916	297	0.374
o-Xylene	11.766	11.766	87	0.130
Bromofluorobenzene (PID)	12.666	12.666	513722	843.043

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: 303845-001,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-008
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:42:58 PM
 Analysis Date: 10/5/2018 5:11:42 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

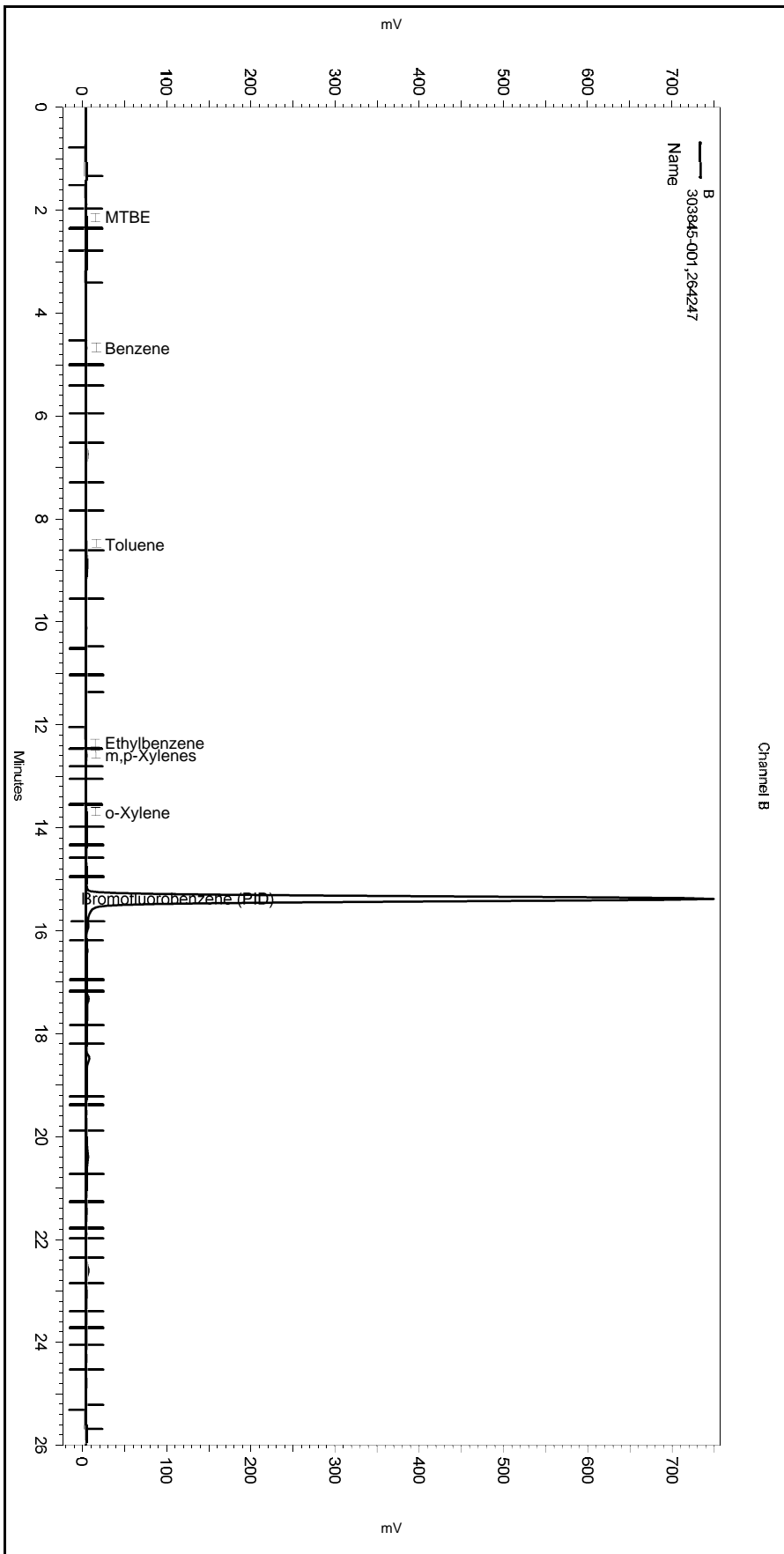
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-008_7D13.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: 303845-001,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-008
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:42:58 PM
 Analysis Date: 10/5/2018 5:11:42 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

=====
 Manual Integration Fixes

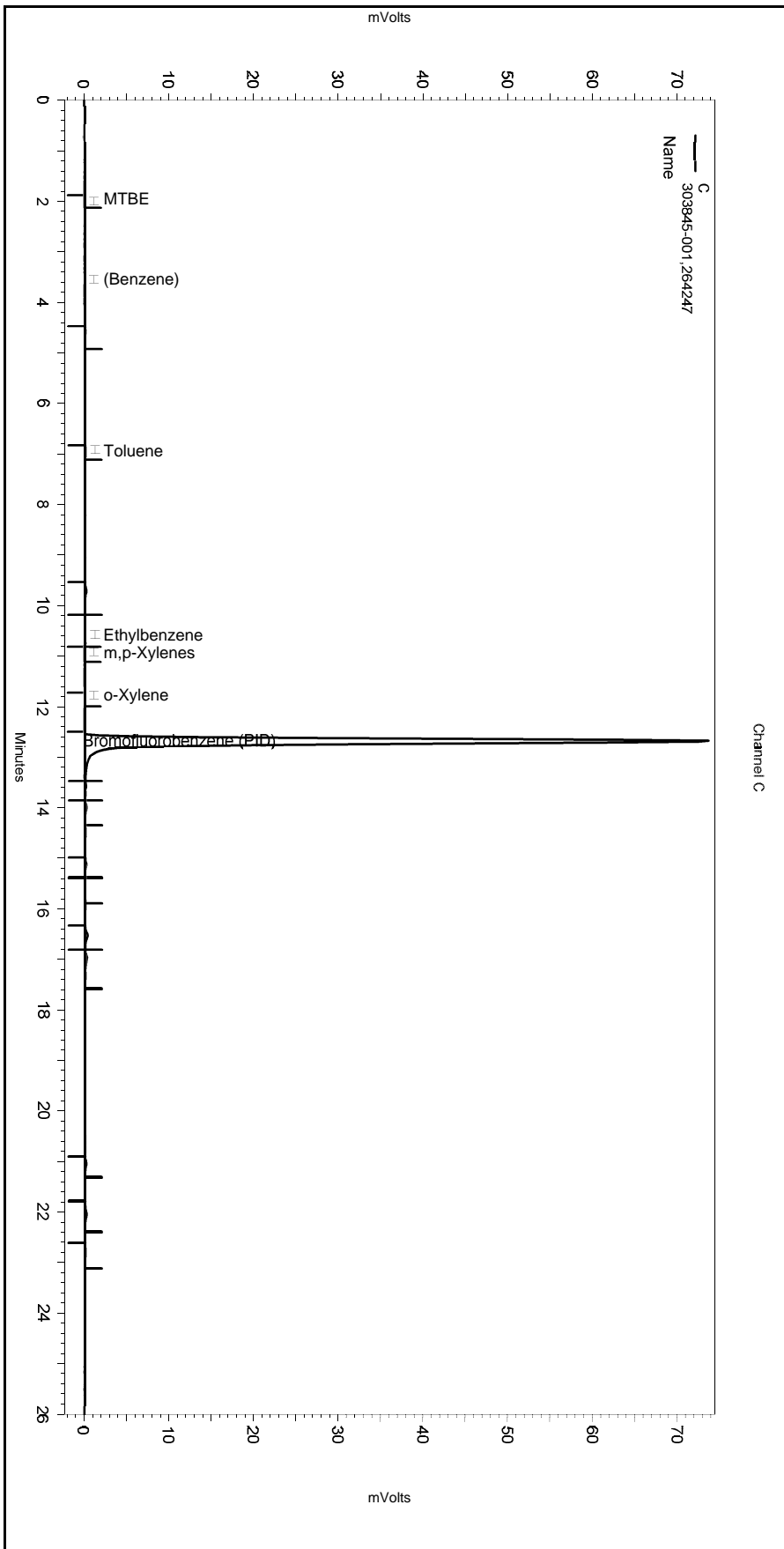
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-008_7D13.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: 303845-001,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-008
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:42:58 PM
 Analysis Date: 10/5/2018 5:11:42 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---> C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-008_7D13.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

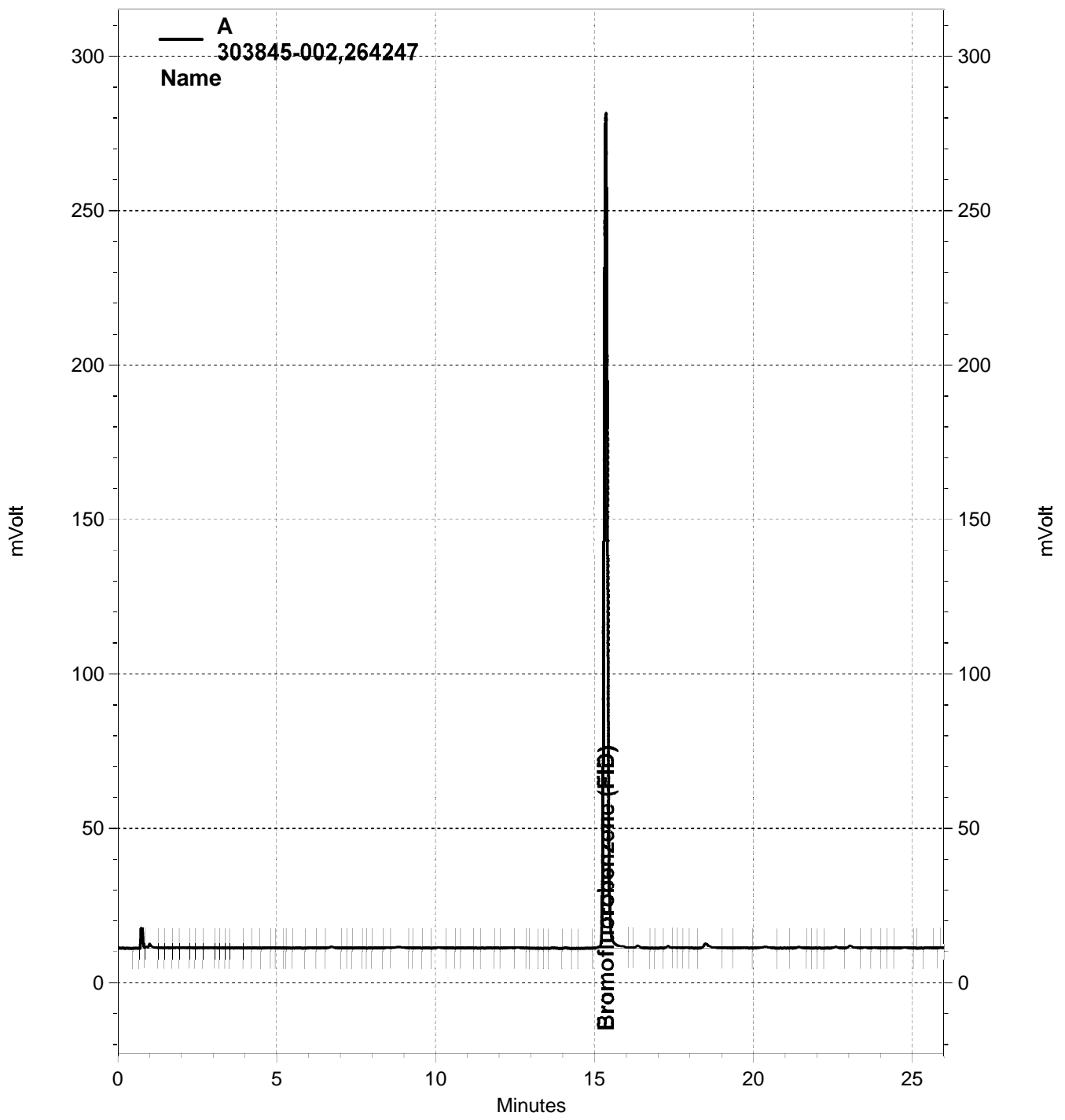
Inst : GC07 Lab ID : 303845-002 Client ID : BR11-1GW02
 Seqnum : 328401045009 Matrix : Water Acct : TRC-SF (MJD)
 File : 278_009 Batch : 264247 Time : 05-OCT-2018 17:21
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328359254001	101.1	20 J			50	16	u
Benzene	C	328399506001	0	ND	0.41 J		0.50		u
Toluene	C	328399506001	0.4264	ND	0.39 J	129%	0.50		u
Ethylbenzene	C	328399506001	0	ND	0.19 J		0.50		u
m,p-Xylenes	C	328399506001	0.4392	ND	0.17 J	64%	0.50	0.18	u
o-Xylene	C	328399506001	0	ND	0.21 J		0.50		u

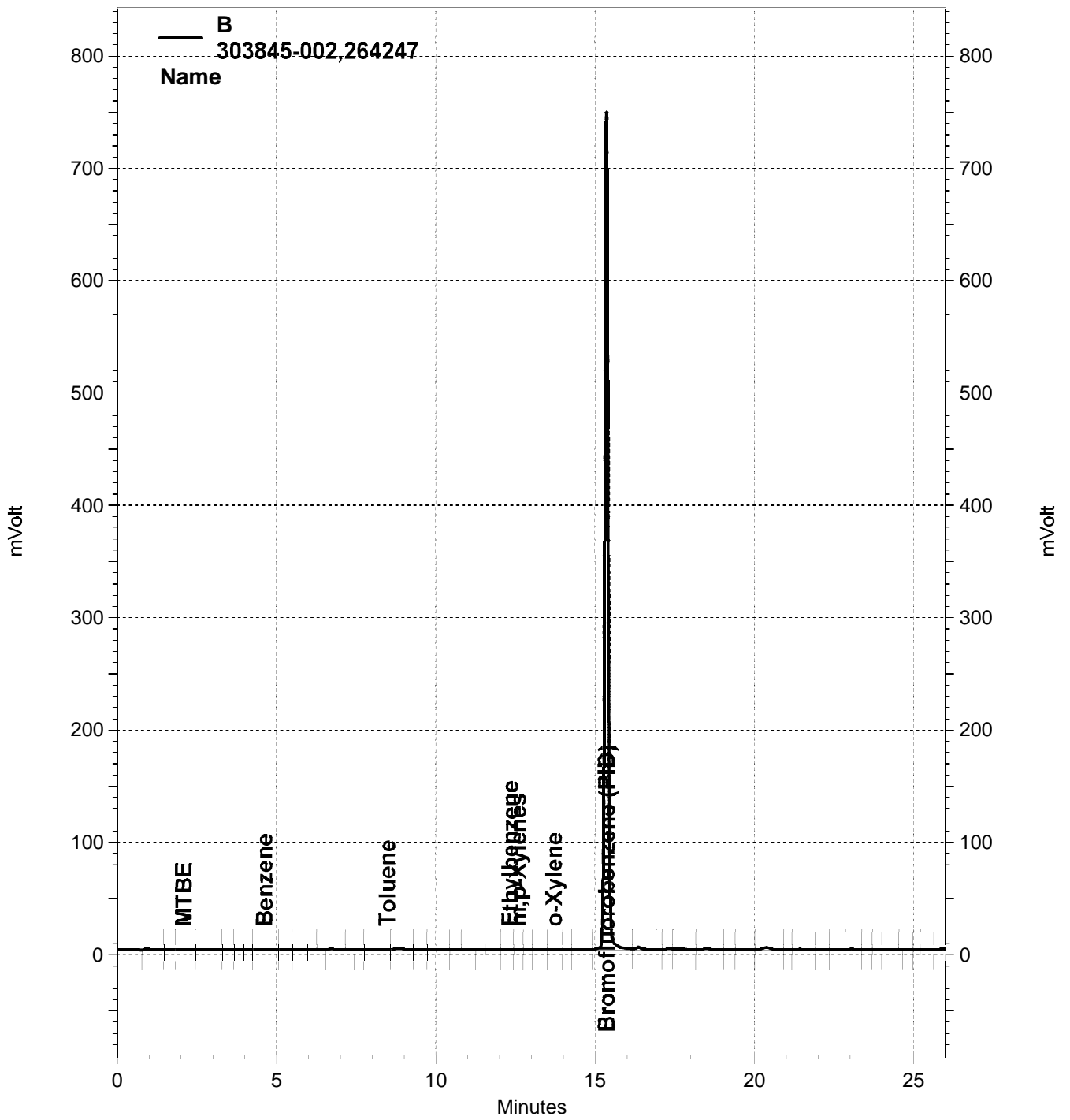
Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328359254001	1002	180.0	200.5	111	79-120	u
Bromofluorobenzene (PID)	C	328399506001	852.1	180.0	170.4	95	71-127	>c- u

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

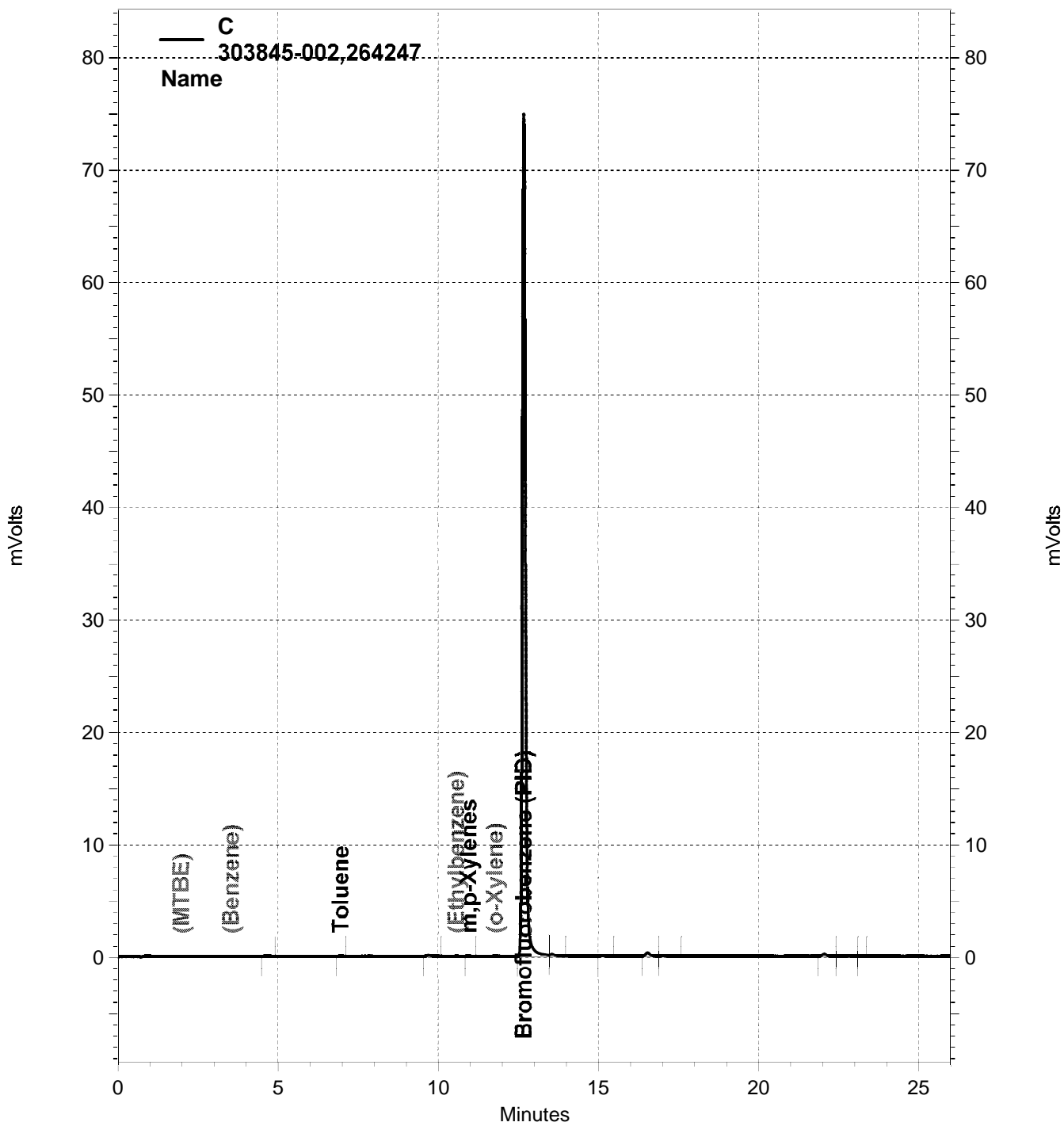
--low bias >=closing c=CCV u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-009, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-009, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-009, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: 303845-002,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-009
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 5:21:42 PM
 Analysis Date: 10/5/2018 5:50:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1988068	1002.345
GAS:6-10			122516	51.035
GAS:6-12			241729	86.205
GAS:7-12			226120	101.120
JP4:7-12			226120	60.312

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.100	2.133	15881	12.362
Benzene	4.633	4.667	16239	2.059
Toluene	8.483	8.483	15295	1.972
Ethylbenzene	12.333	12.350	5745	0.957
m,p-Xylenes	12.583	12.567	6528	0.855
o-Xylene	13.717	13.683	7352	1.052
Bromofluorobenzene (PID)	15.367	15.350	5502133	866.378

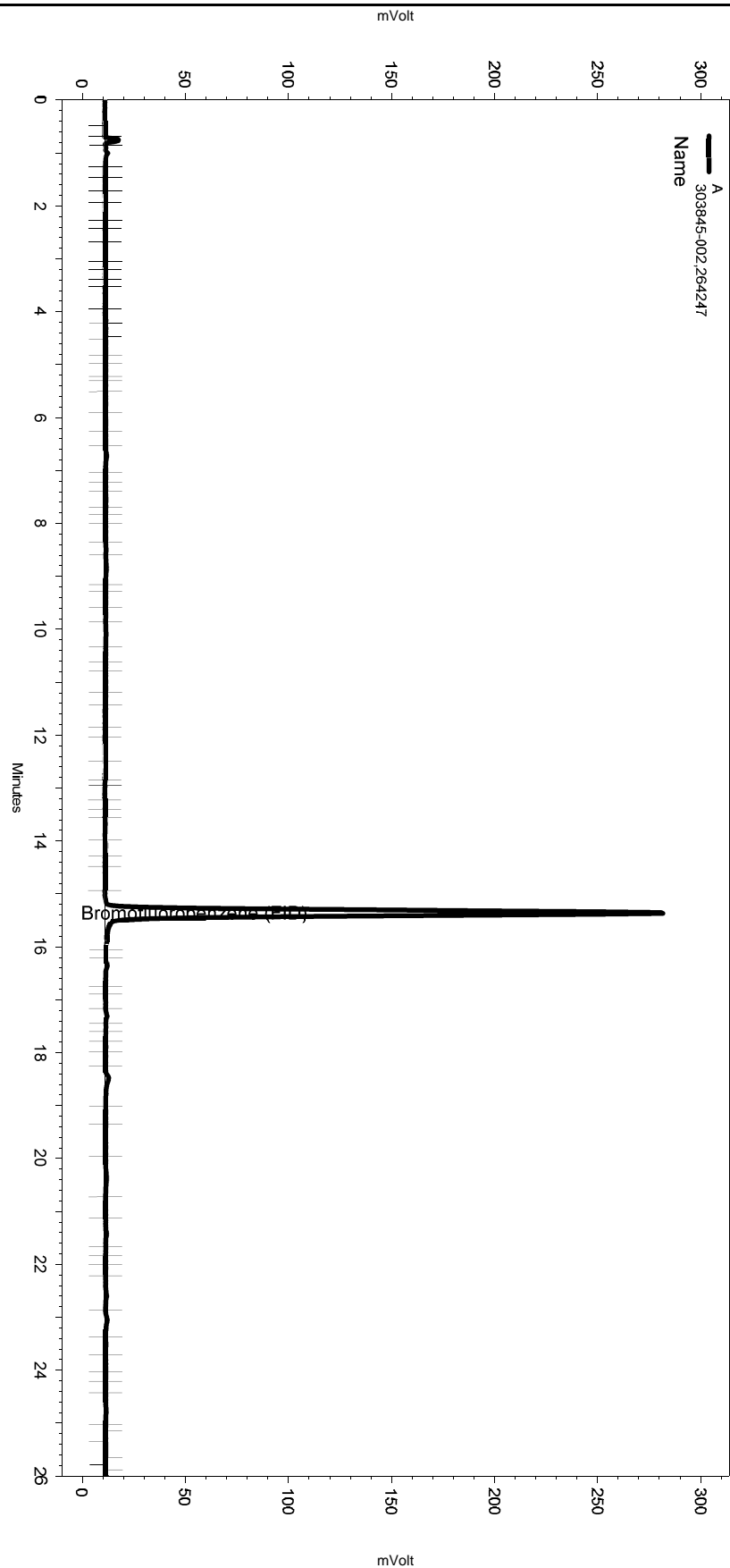
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene		3.533		0.000 BDL
Toluene	6.950	6.916	318	0.426
Ethylbenzene		10.566		0.000 BDL
m,p-Xylenes	10.949	10.916	349	0.439
o-Xylene		11.766		0.000 BDL
Bromofluorobenzene (PID)	12.666	12.666	519258	852.127

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence12018\278.seq
 Sample Name: 303845-002,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-009
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 5:21:42 PM
 Analysis Date: 10/5/2018 5:50:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

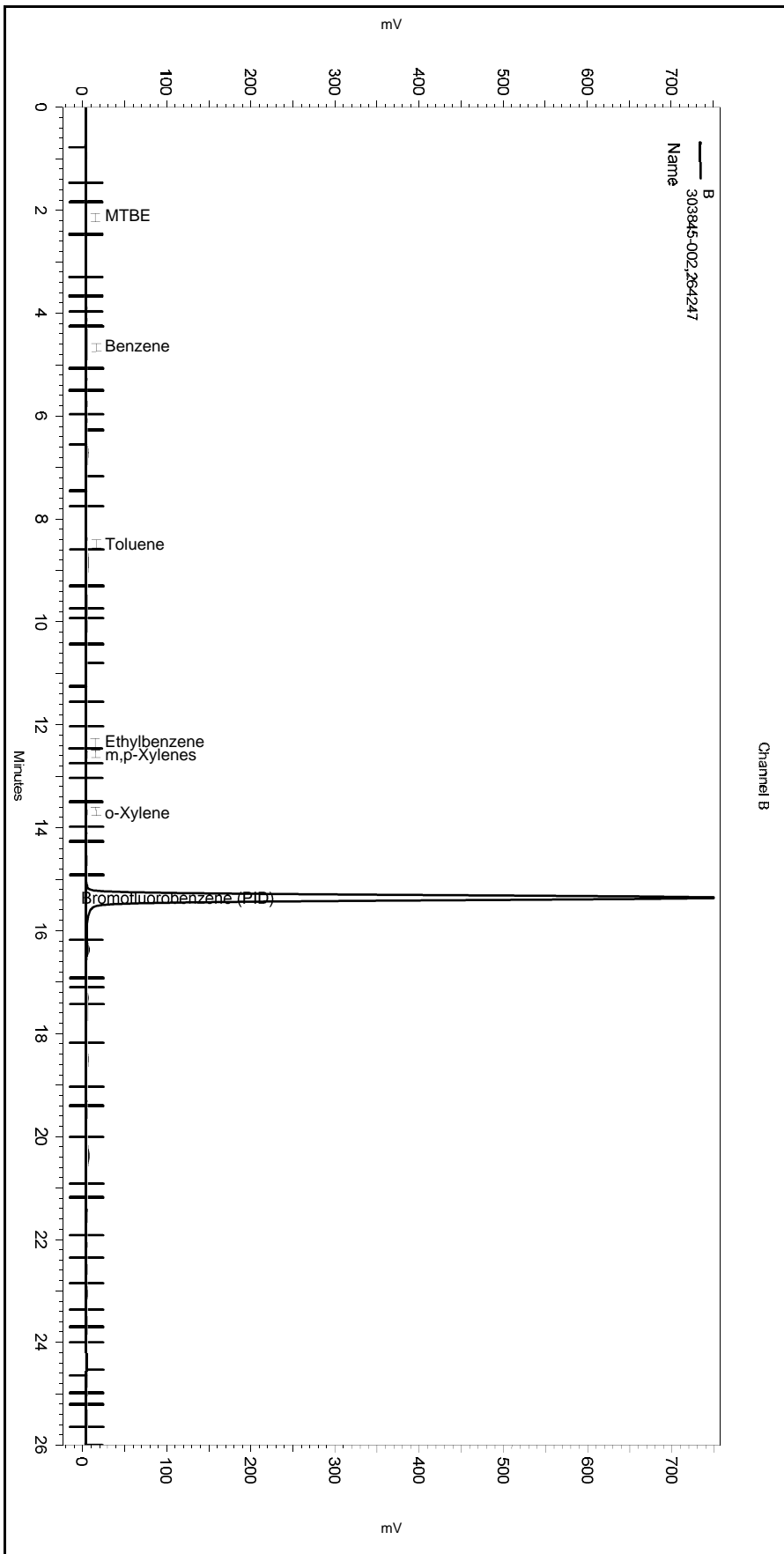
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\278-009_7D14.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: 303845-002,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-009
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 5:21:42 PM
 Analysis Date: 10/5/2018 5:50:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

=====
 Manual Integration Fixes

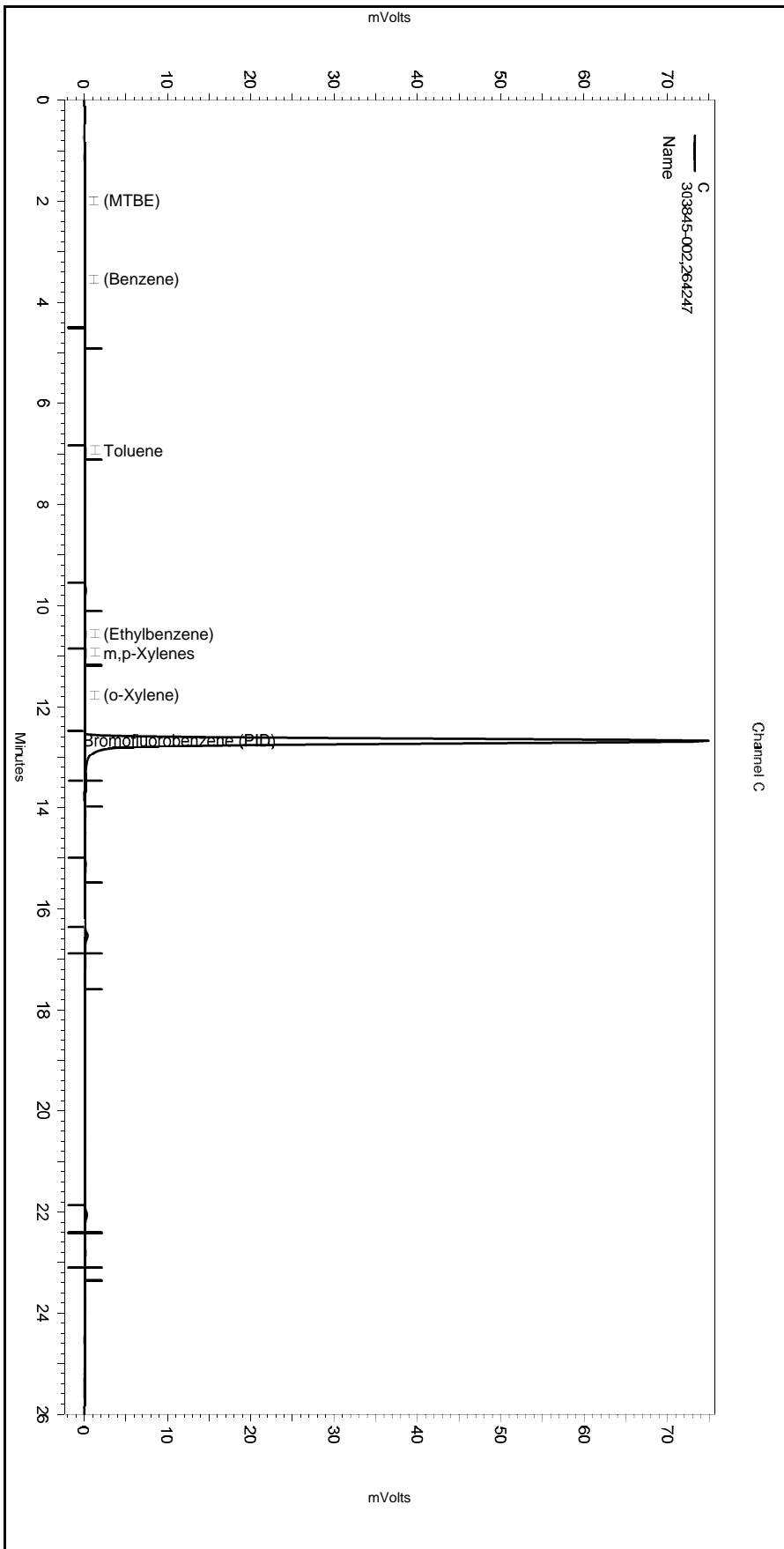
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-009_7D14.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence12018\278.seq
 Sample Name: 303845-002,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-009
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 5:21:42 PM
 Analysis Date: 10/5/2018 5:50:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-009_7D14.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 303845-003 Client ID : BR11-1GW03
 Seqnum : 328401045010 Matrix : Water Acct : TRC-SF (MJD)
 File : 278_010 Batch : 264247 Time : 05-OCT-2018 18:00
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

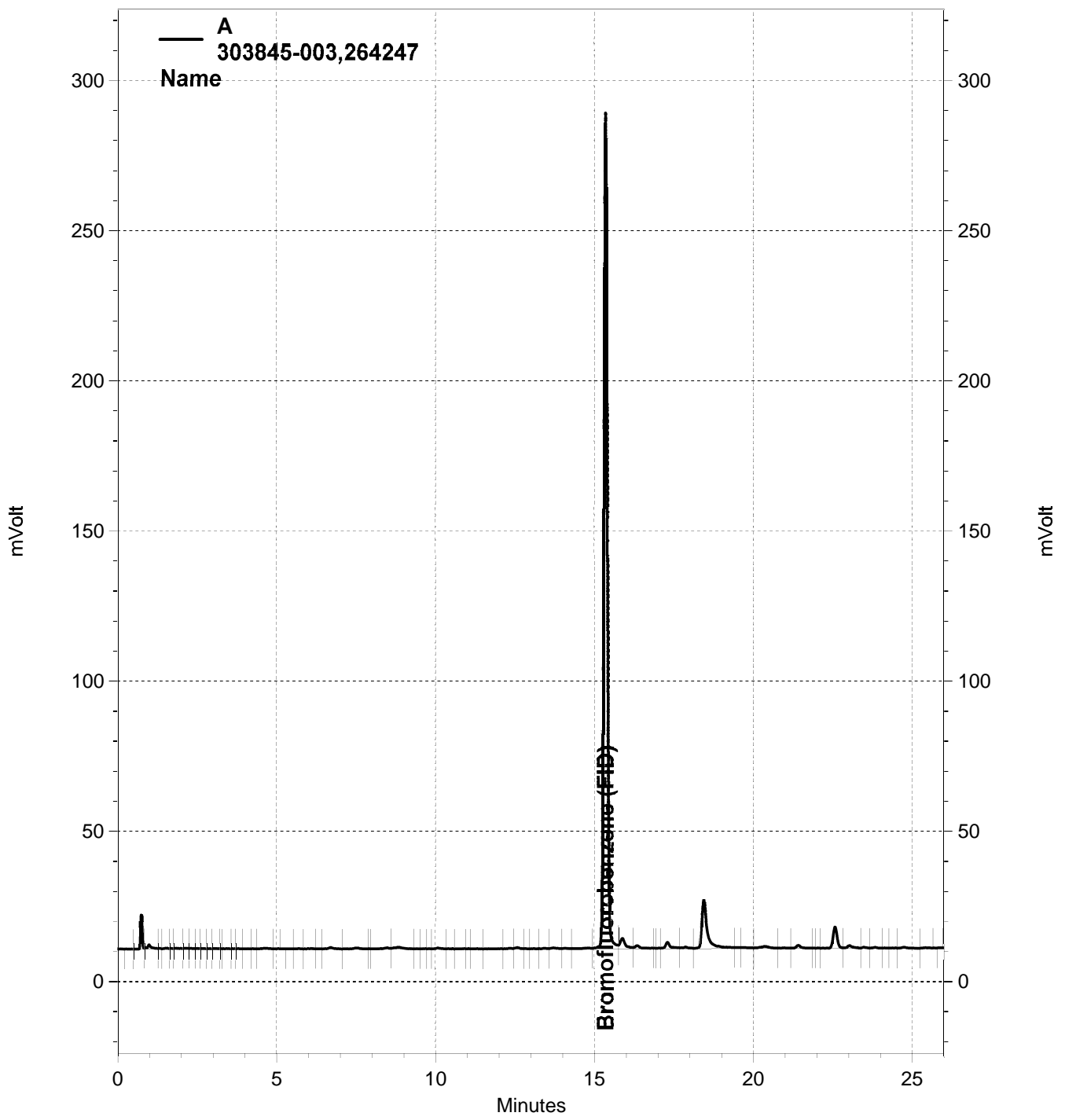
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328359254001	226.4	45 J			50	16	u
Benzene	C	328399506001	0.05834	ND	0.35 J	187%	0.50		u
Toluene	C	328399506001	0.6704	0.13 J	0.38 J	96%	0.50		C u
Ethylbenzene	C	328399506001	0	ND	0.20 J		0.50		u
m,p-Xylenes	C	328399506001	0.2806	ND	0.23 J	121%	0.50	0.18	u
o-Xylene	C	328399506001	0.1672	ND	0.19 J	141%	0.50		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328359254001	1016	180.0	203.2	113	79-120	u
Bromofluorobenzene (PID)	C	328399506001	862.5	180.0	172.5	96	71-127	>c- u

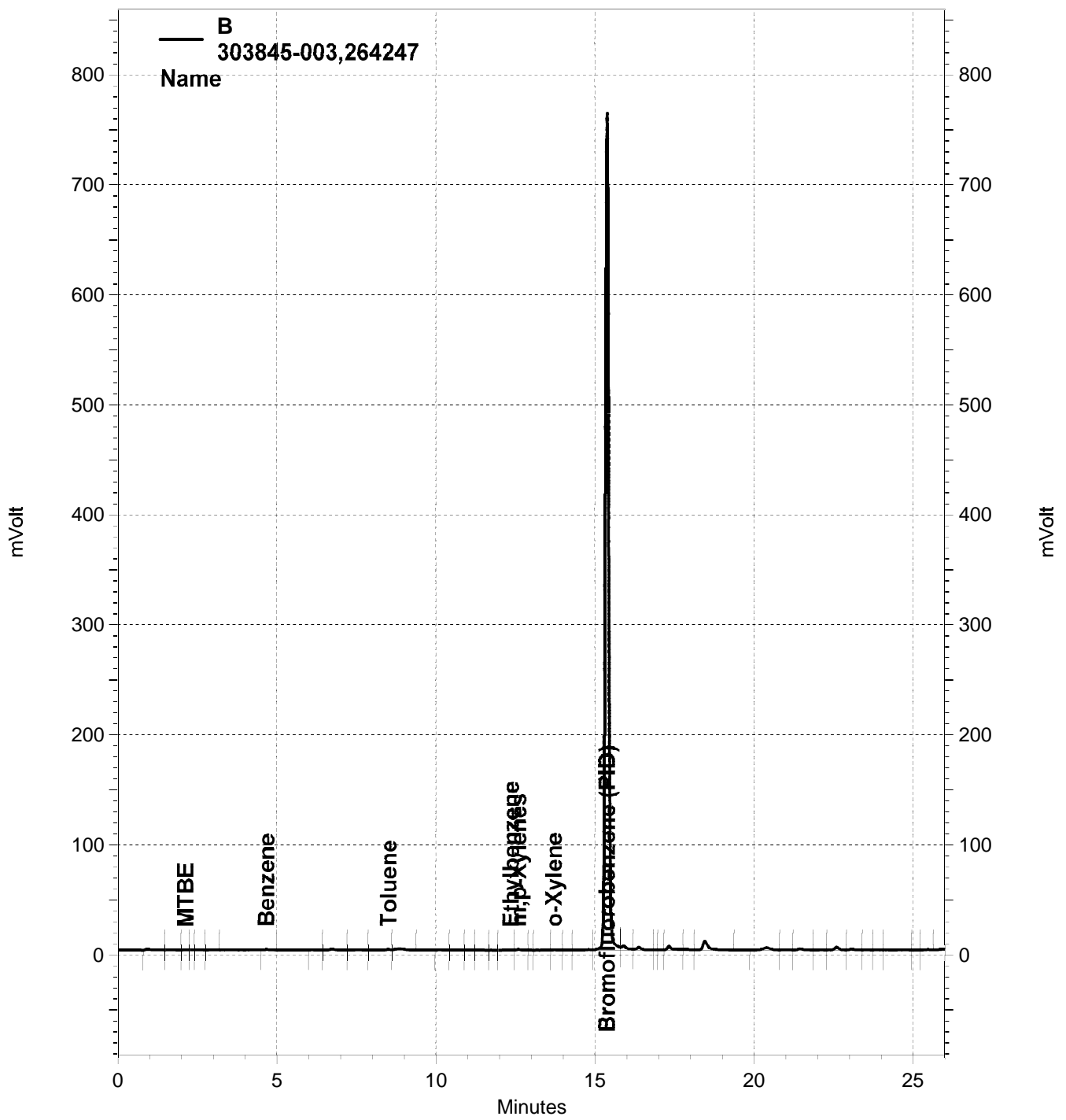
ALE 10/08/18 : Reporting from Channel C for all BTXE analytes using Channel B as confirmation.

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

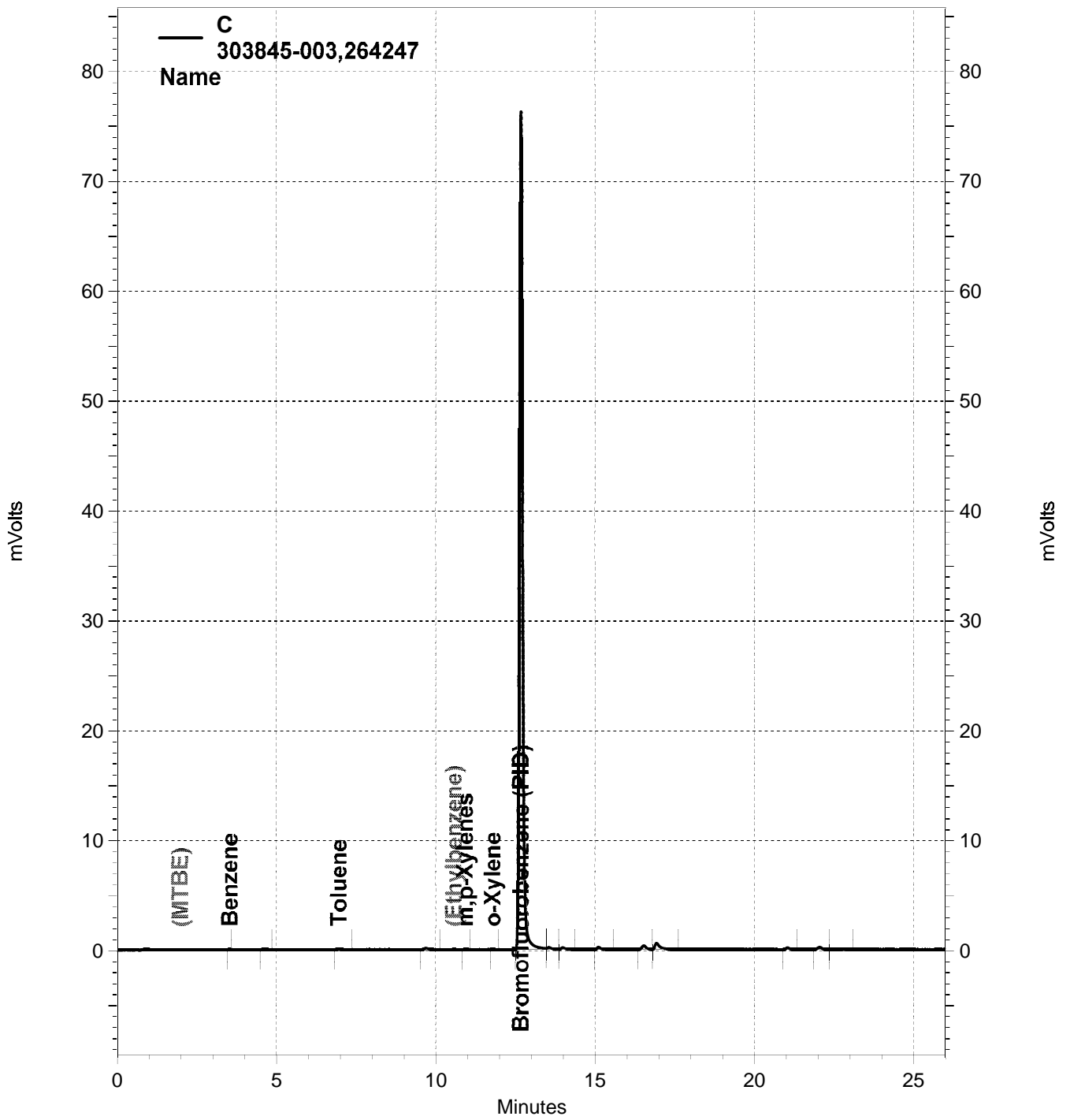
--low bias >=closing C=RPD between columns exceeds 40% c=CCV u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-010, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-010, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-010, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: 303845-003,264247
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-010
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 6:00:06 PM
Analysis Date: 10/5/2018 6:28:50 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	2015192	1016.020
GAS:6-10			141594	58.982
GAS:6-12			520070	185.466
GAS:7-12			506156	226.351
JP4:7-12			506156	135.004

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.150	2.133	6020	4.686
Benzene	4.683	4.667	13904	1.763
Toluene	8.517	8.483	14778	1.905
Ethylbenzene	12.367	12.350	6142	1.023
m,p-Xylenes	12.600	12.567	8643	1.132
o-Xylene	13.717	13.683	6692	0.958
Bromofluorobenzene (PID)	15.383	15.350	5539863	872.319

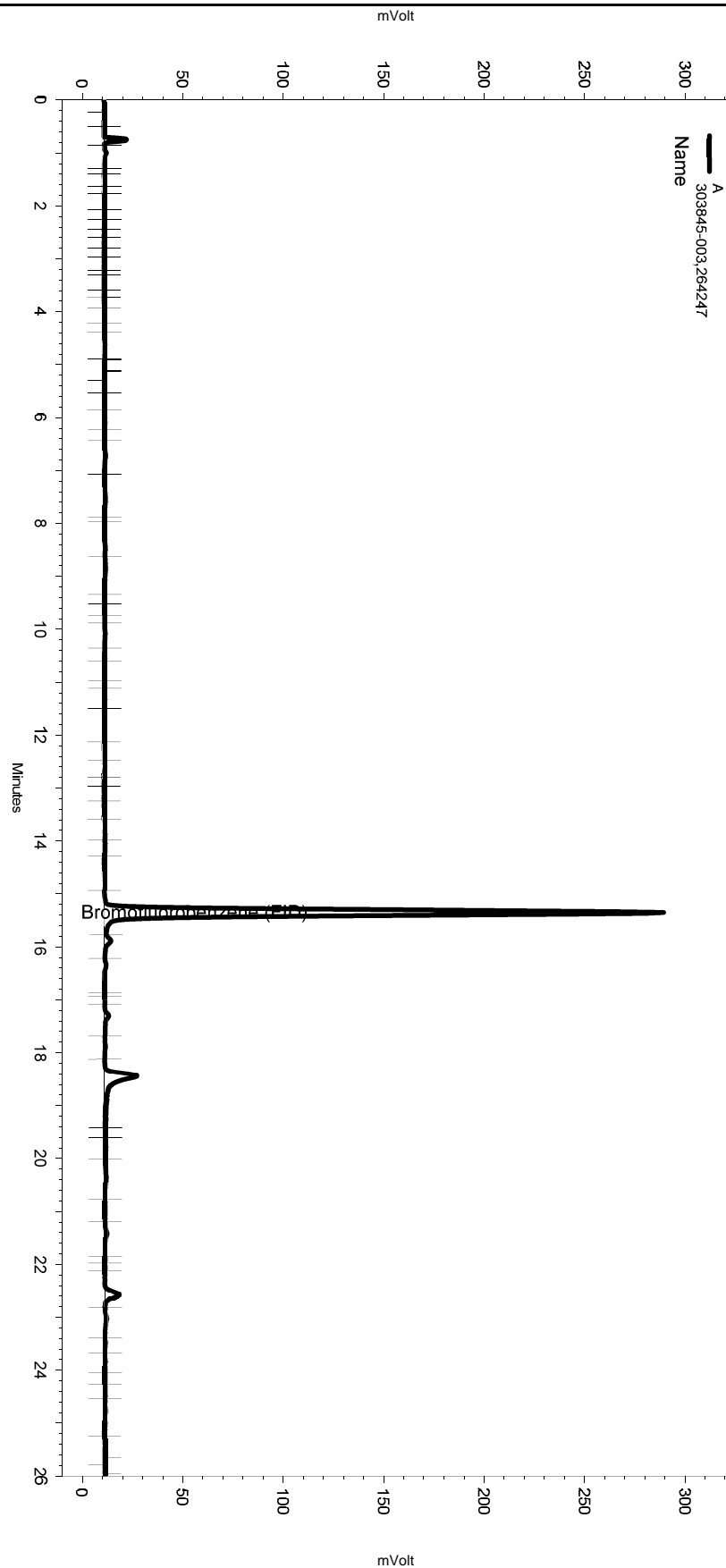
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene	3.533	3.533	40	0.058
Toluene	6.950	6.916	500	0.670
Ethylbenzene		10.566		0.000 BDL
m,p-Xylenes	10.916	10.916	223	0.281
o-Xylene	11.783	11.766	112	0.167
Bromofluorobenzene (PID)	12.666	12.666	525563	862.474

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: 303845-003,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-010
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 6:00:06 PM
 Analysis Date: 10/5/2018 6:28:50 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

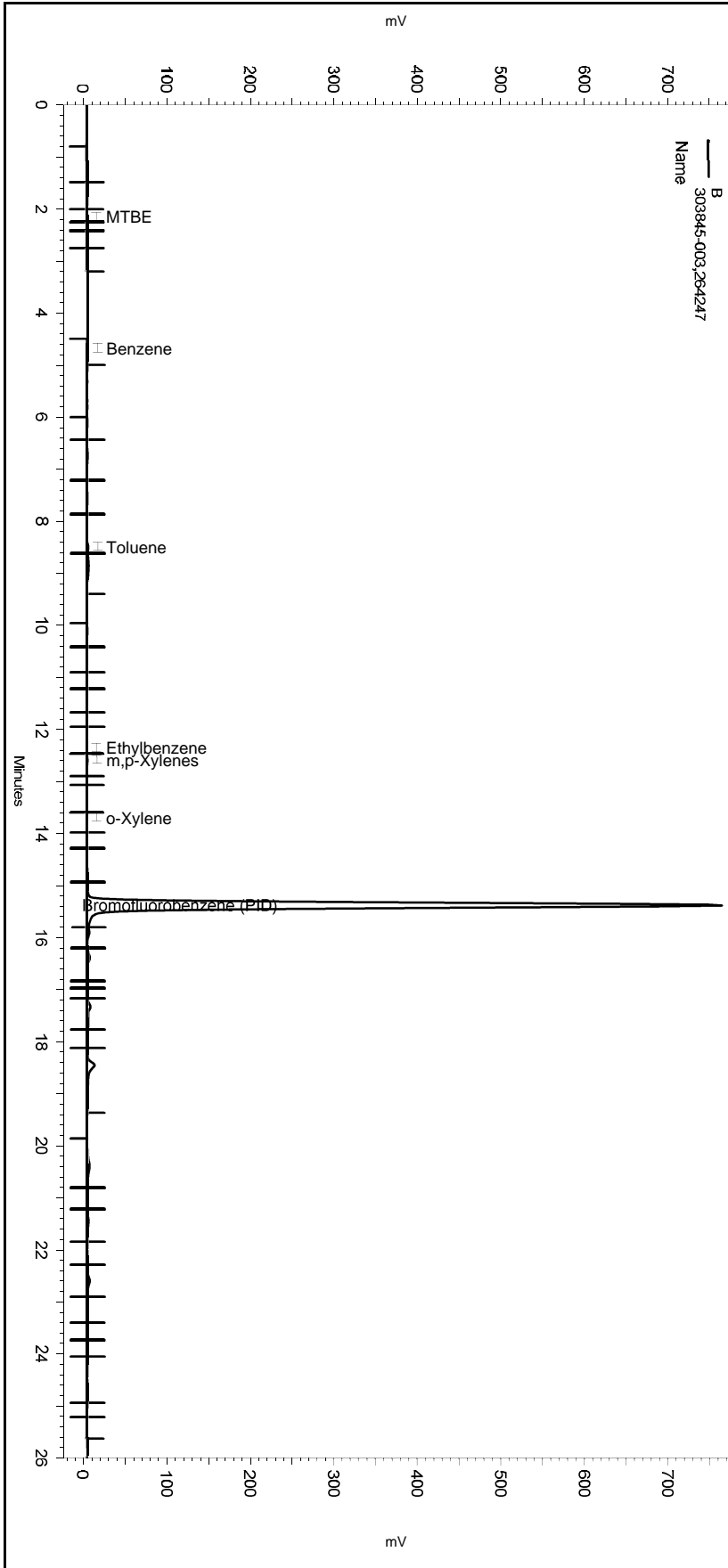
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\278-010_7D15.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence12018\278.seq
 Sample Name: 303845-003,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-010
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 6:00:06 PM
 Analysis Date: 10/5/2018 6:28:50 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



Channel B

---< General Method Parameters >-----

No items selected for this section

---> B <-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

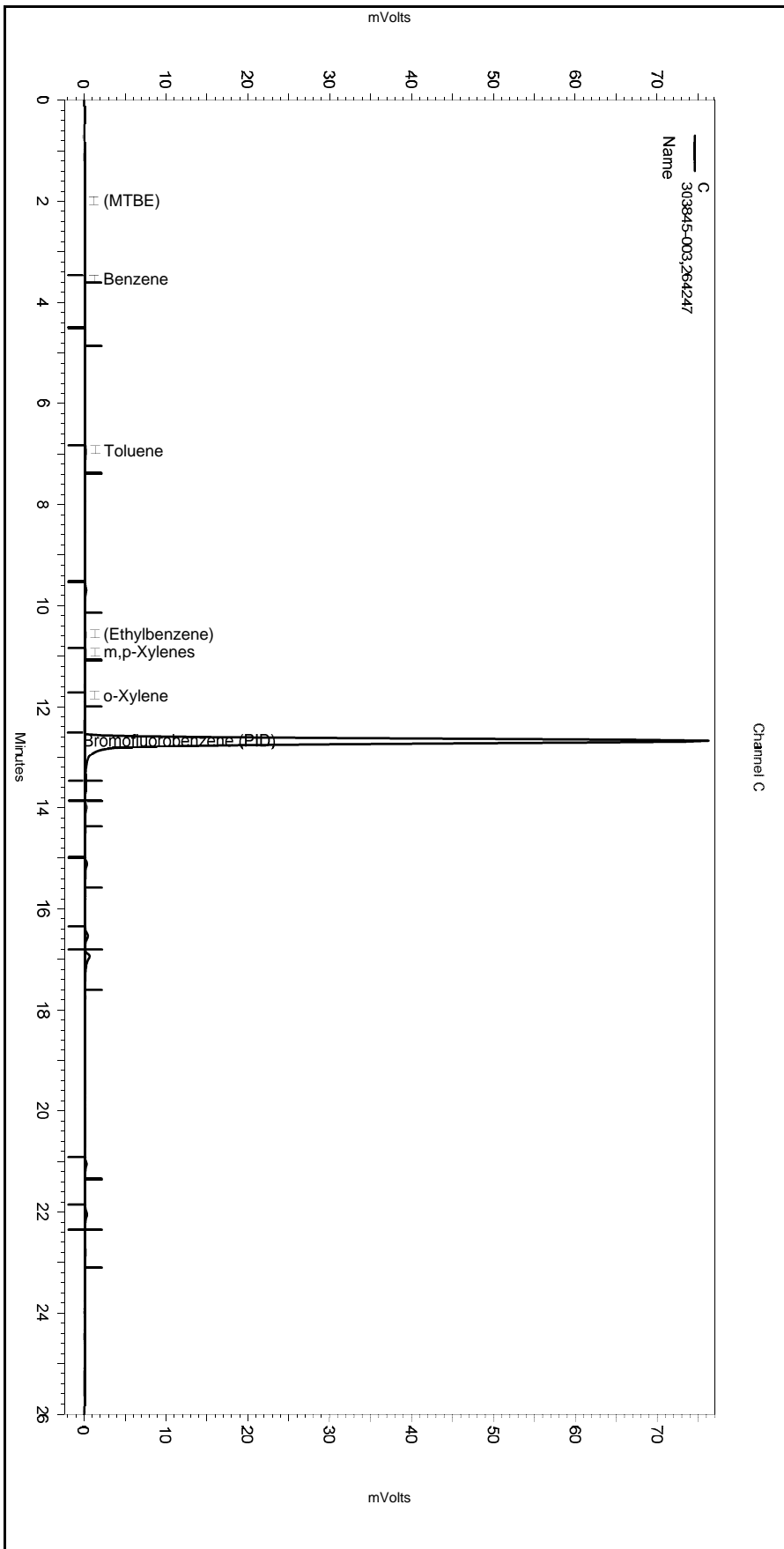
=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-010_7D15.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: 303845-003,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-010
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 6:00:06 PM
 Analysis Date: 10/5/2018 6:28:50 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-010_7D15.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

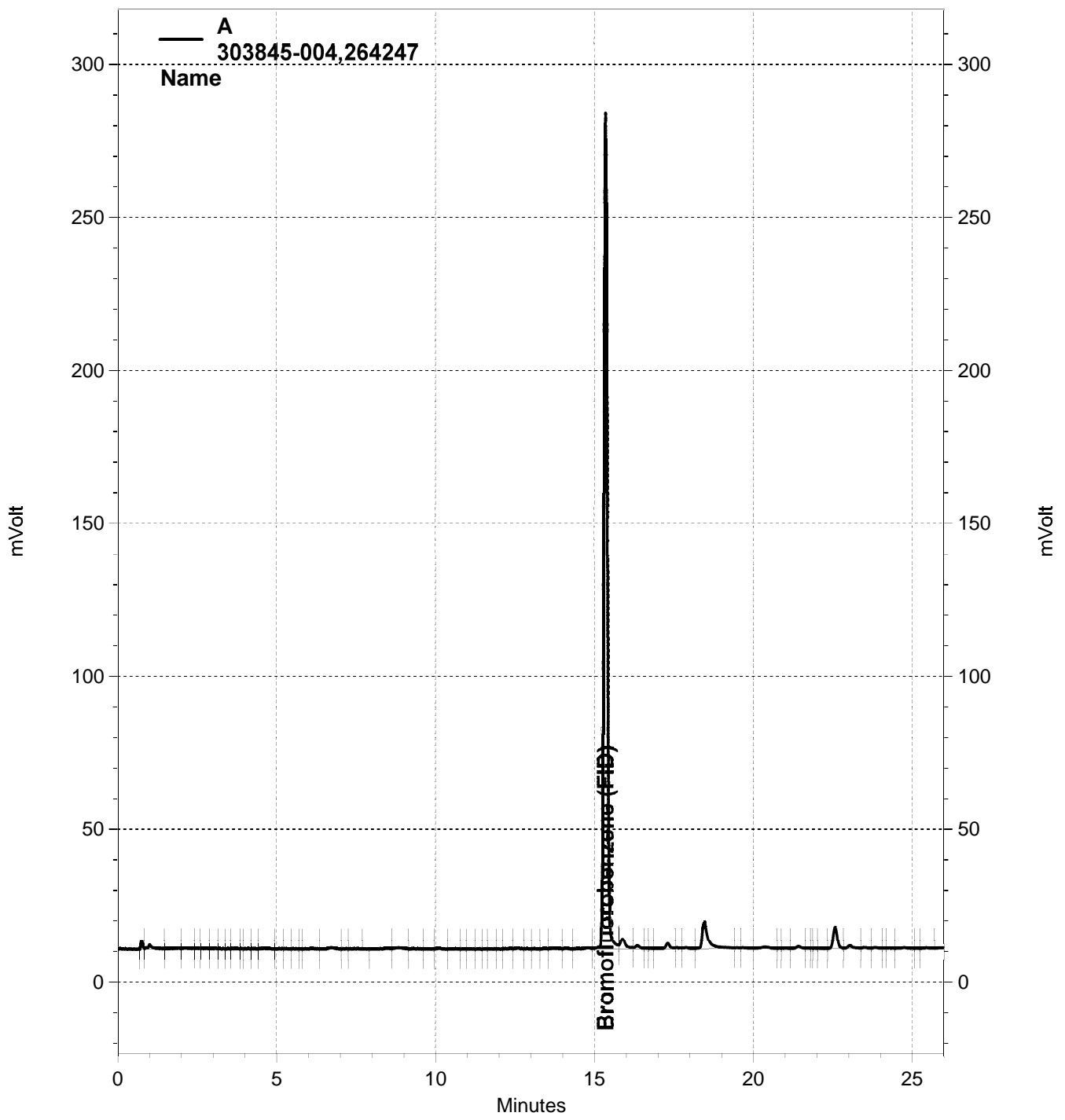
Inst : GC07 Lab ID : 303845-004 Client ID : DUP10032018-01
 Seqnum : 328401045011 Matrix : Water Acct : TRC-SF (MJD)
 File : 278_011 Batch : 264247 Time : 05-OCT-2018 18:38
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	328359254001	170.0	34 J			50	16	u
Benzene	C	328399506001	0	ND	0.25 J		0.50		u
Toluene	C	328399506001	1.287	0.26 J	0.24 J		7% 0.50		u
Ethylbenzene	C	328399506001	0	ND	0.18 J		0.50		u
m,p-Xylenes	C	328399506001	0.6959	ND	0.23 J		50% 0.50	0.18	u
o-Xylene	C	328399506001	0	ND	0.21 J		0.50		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	328359254001	996.1	180.0	199.2	111	79-120	u
Bromofluorobenzene (PID)	C	328399506001	848.5	180.0	169.7	94	71-127	>c- u

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

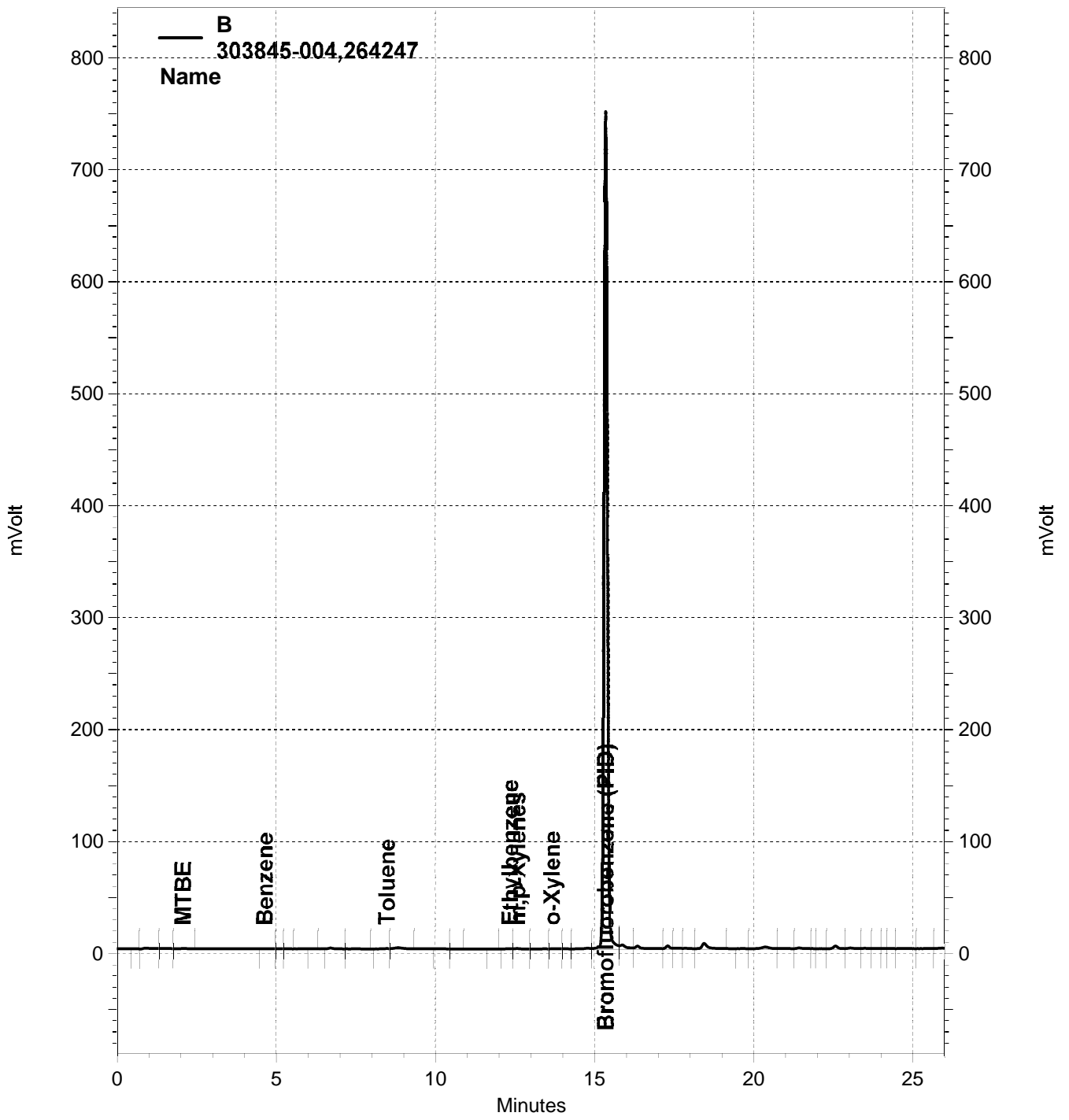
--low bias >=closing c=CCV u=use



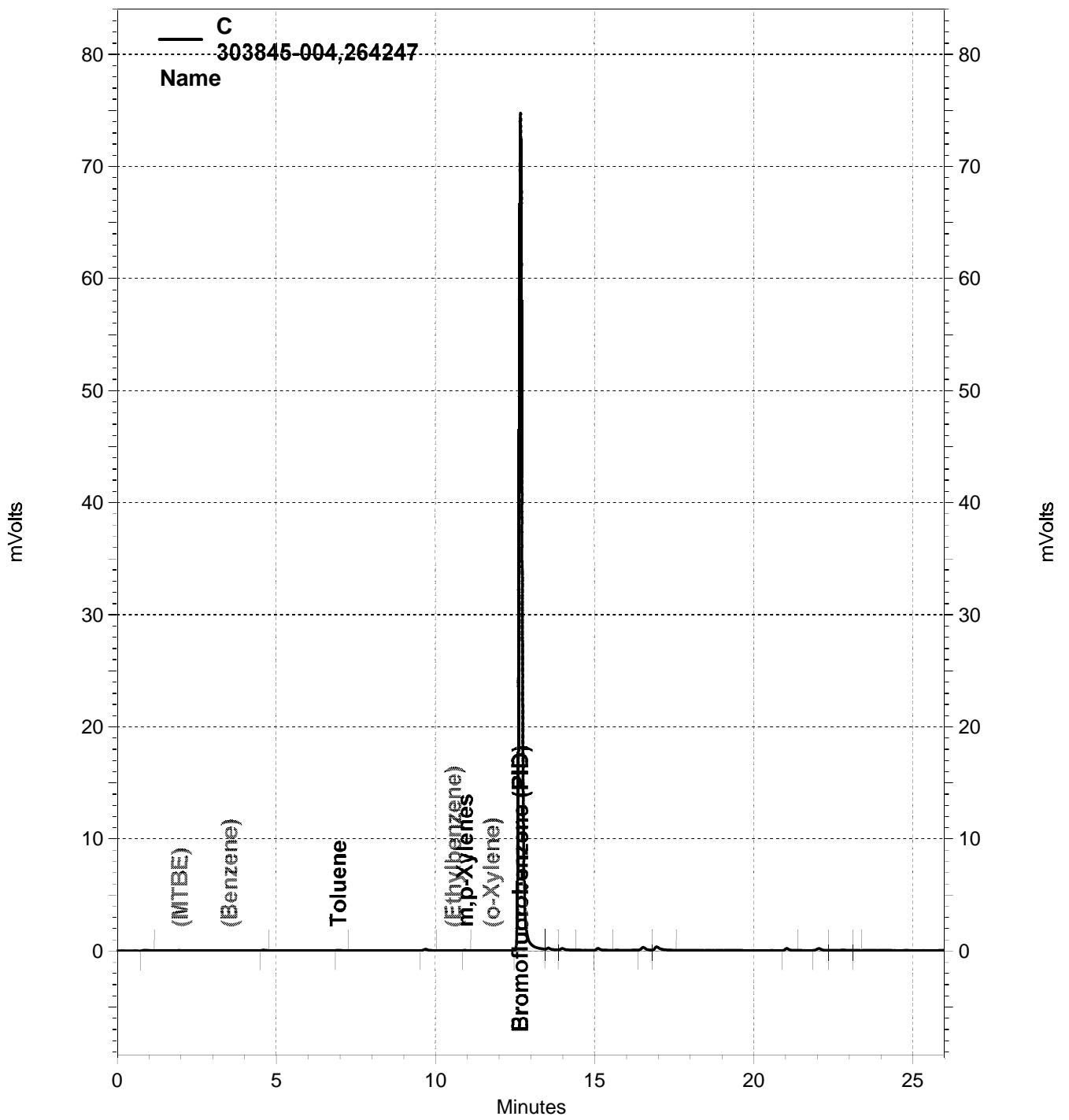
A
303845-004,264247
Name

Bromofluorobenzene (FID)

\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-011, A



\Lims\gdrive\ezchrom\Projects\GC07\Data\278-011, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-011, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: 303845-004,264247
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-011
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 6:38:22 PM
Analysis Date: 10/5/2018 7:07:01 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	1975591	996.054
GAS:6-10			122315	50.951
GAS:6-12			397976	141.925
GAS:7-12			380048	169.956
JP4:7-12			380048	101.368

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.133	18565	14.452
Benzene	4.650	4.667	9885	1.254
Toluene	8.483	8.483	9333	1.203
Ethylbenzene	12.350	12.350	5412	0.902
m,p-Xylenes	12.583	12.567	8852	1.160
o-Xylene	13.667	13.683	7456	1.067
Bromofluorobenzene (PID)	15.350	15.350	5409715	851.825

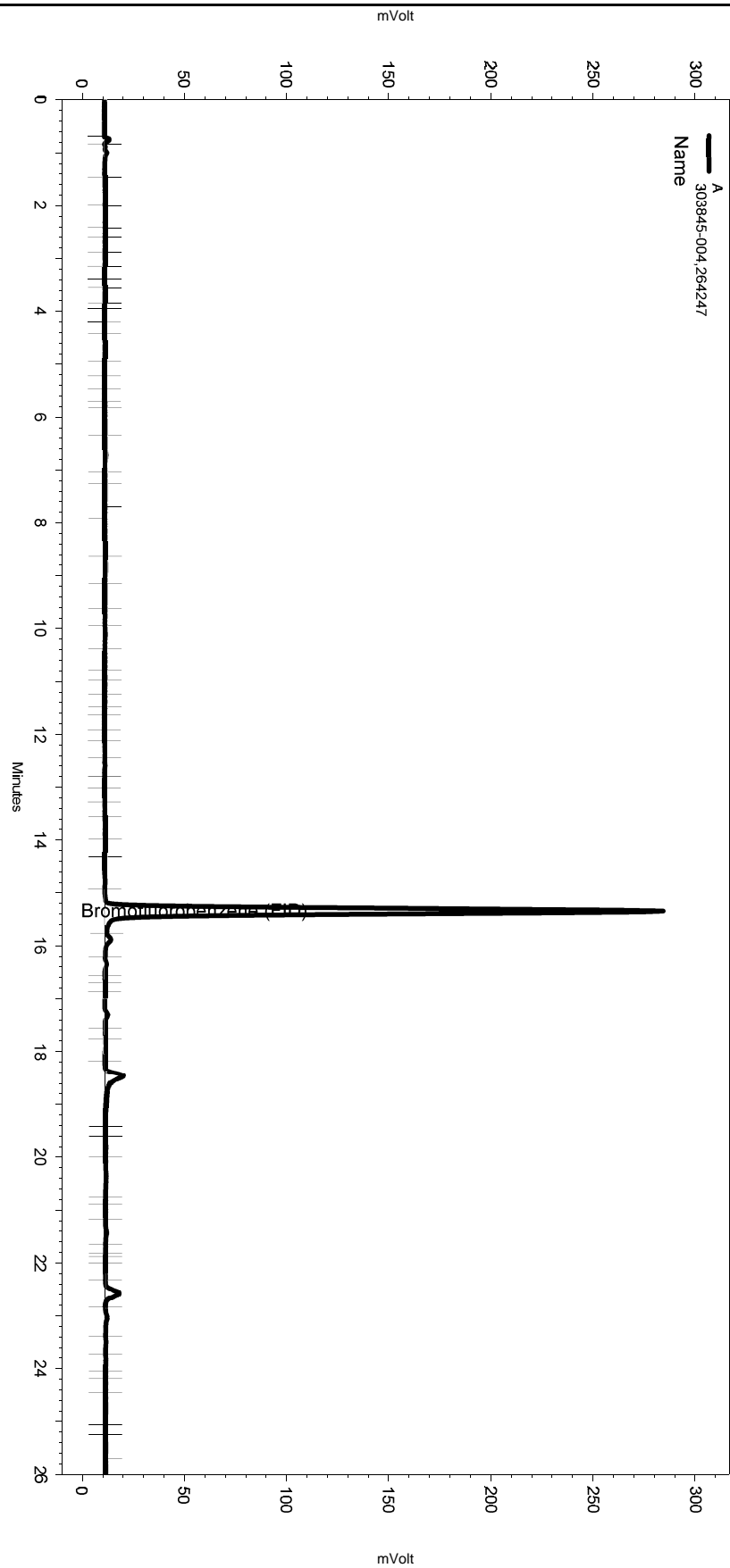
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene		3.533		0.000 BDL
Toluene	6.950	6.916	960	1.287
Ethylbenzene		10.566		0.000 BDL
m,p-Xylenes	10.933	10.916	553	0.696
o-Xylene		11.766		0.000 BDL
Bromofluorobenzene (PID)	12.666	12.666	517075	848.545

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence12018\278.seq
 Sample Name: 303845-004,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-011
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 6:38:22 PM
 Analysis Date: 10/5/2018 7:07:01 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

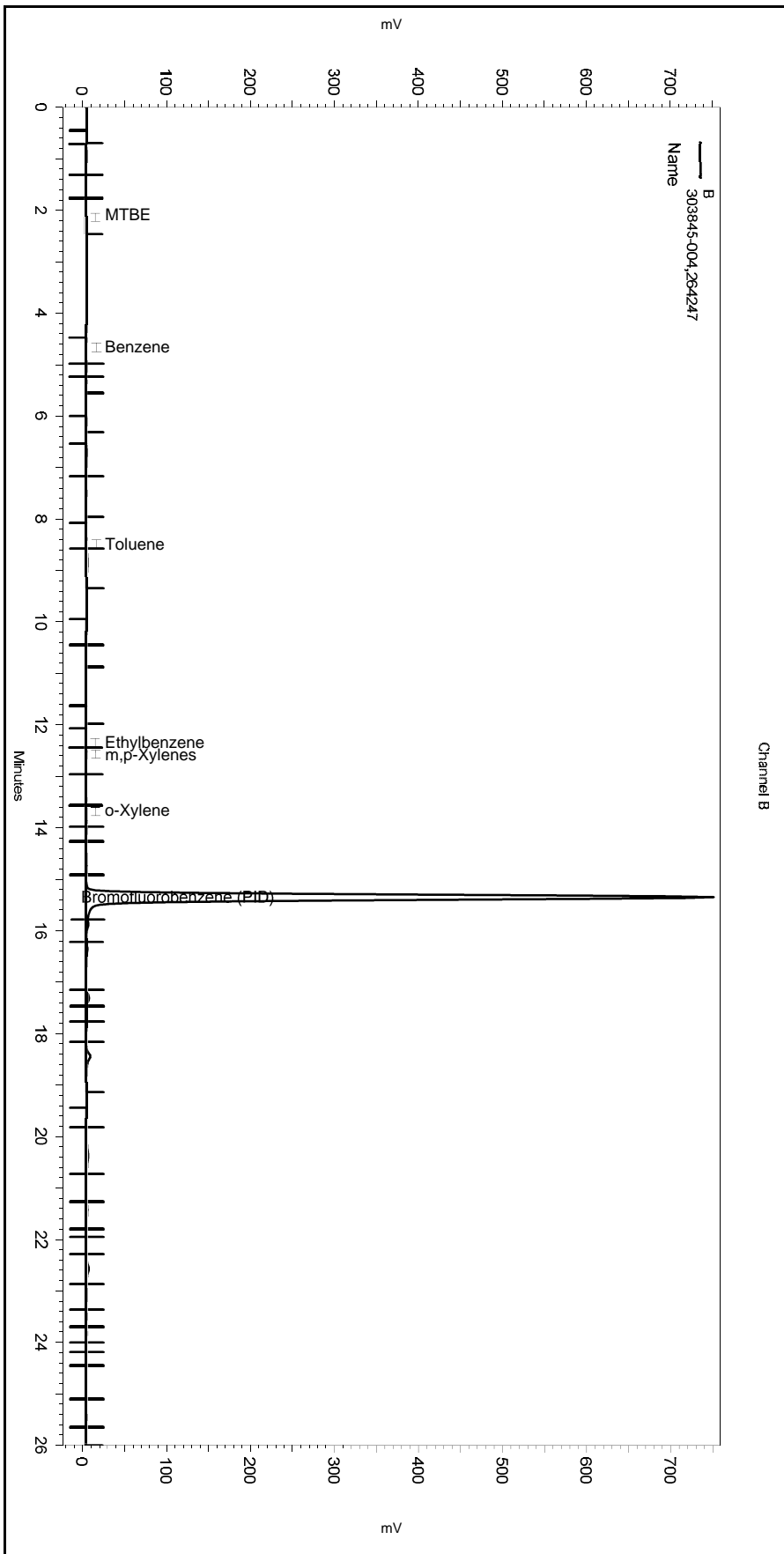
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-011_7D16.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: 303845-004,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-011
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 6:38:22 PM
 Analysis Date: 10/5/2018 7:07:01 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

=====
 Manual Integration Fixes

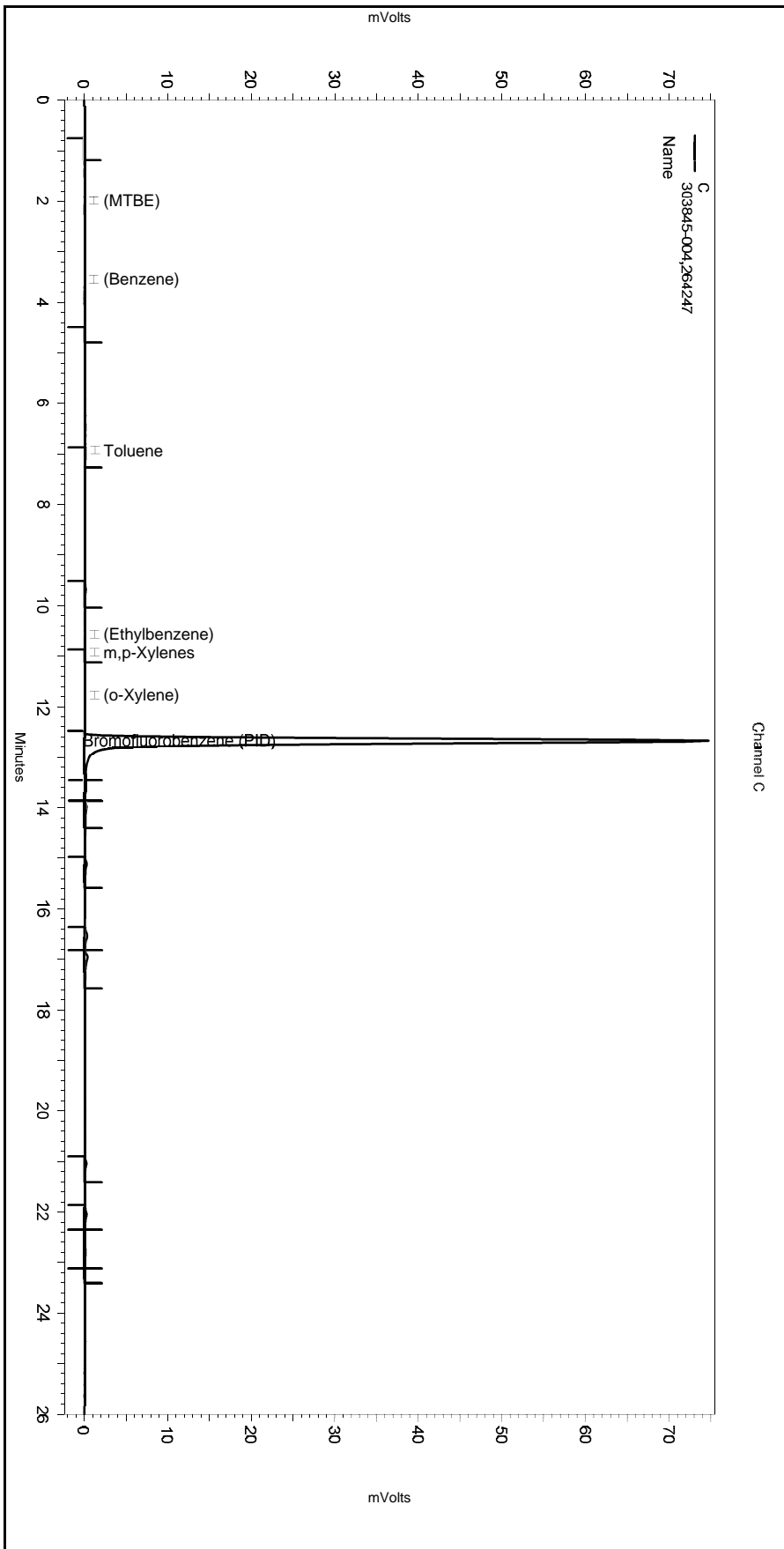
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-011_7D16.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: 303845-004,264247
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-011
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 6:38:22 PM
 Analysis Date: 10/5/2018 7:07:01 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

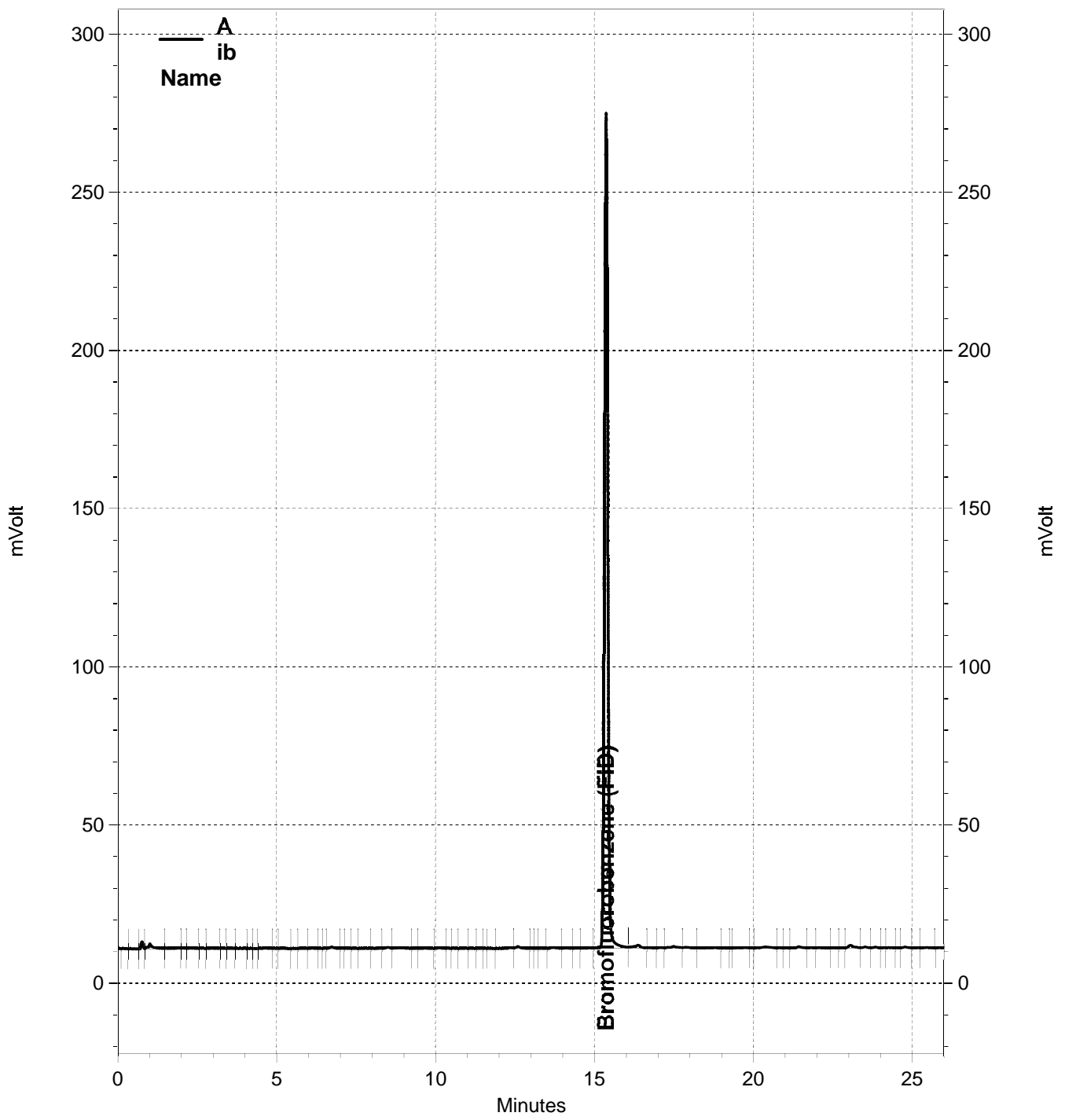
Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-011_7D16.tmp

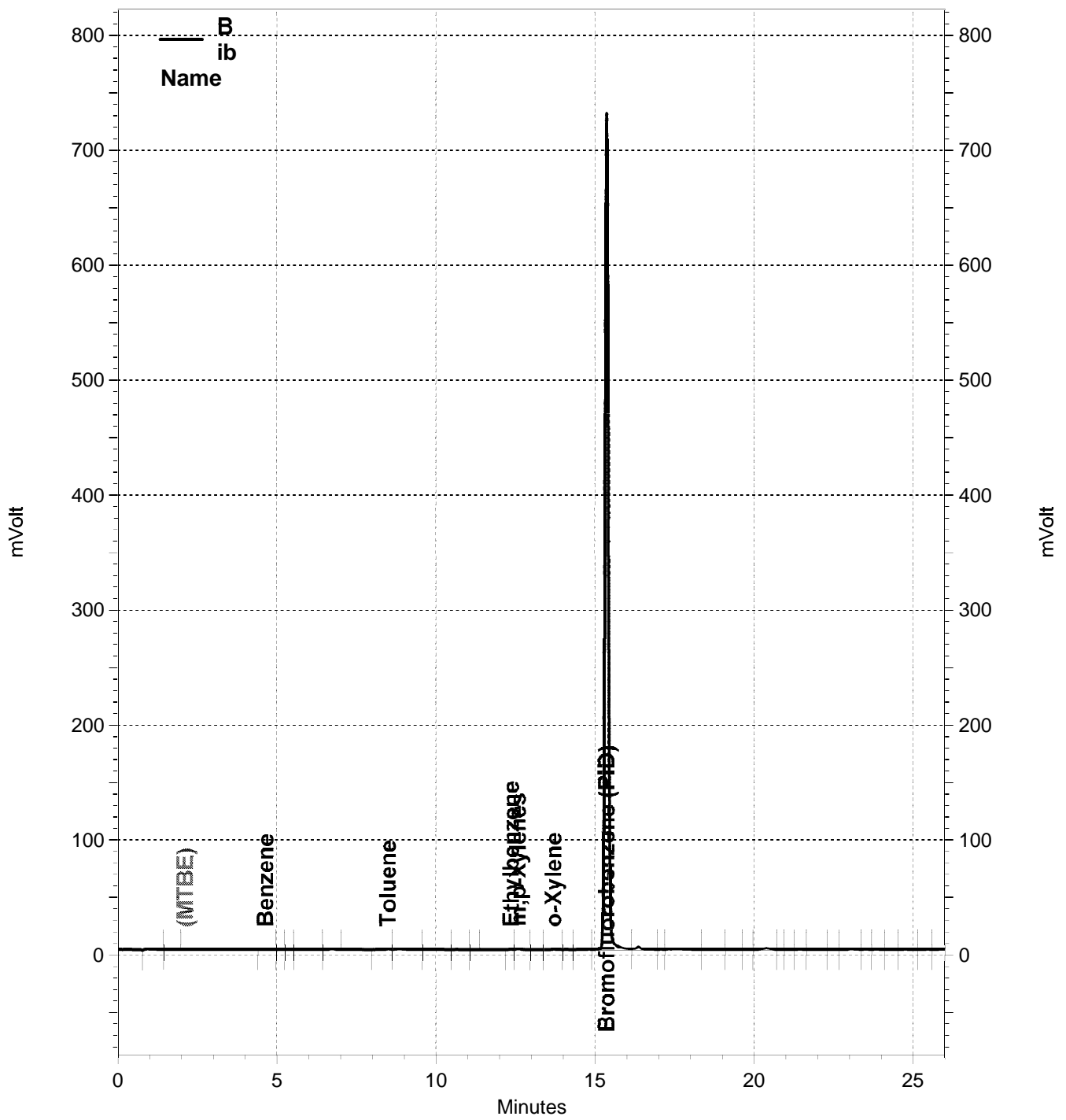
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

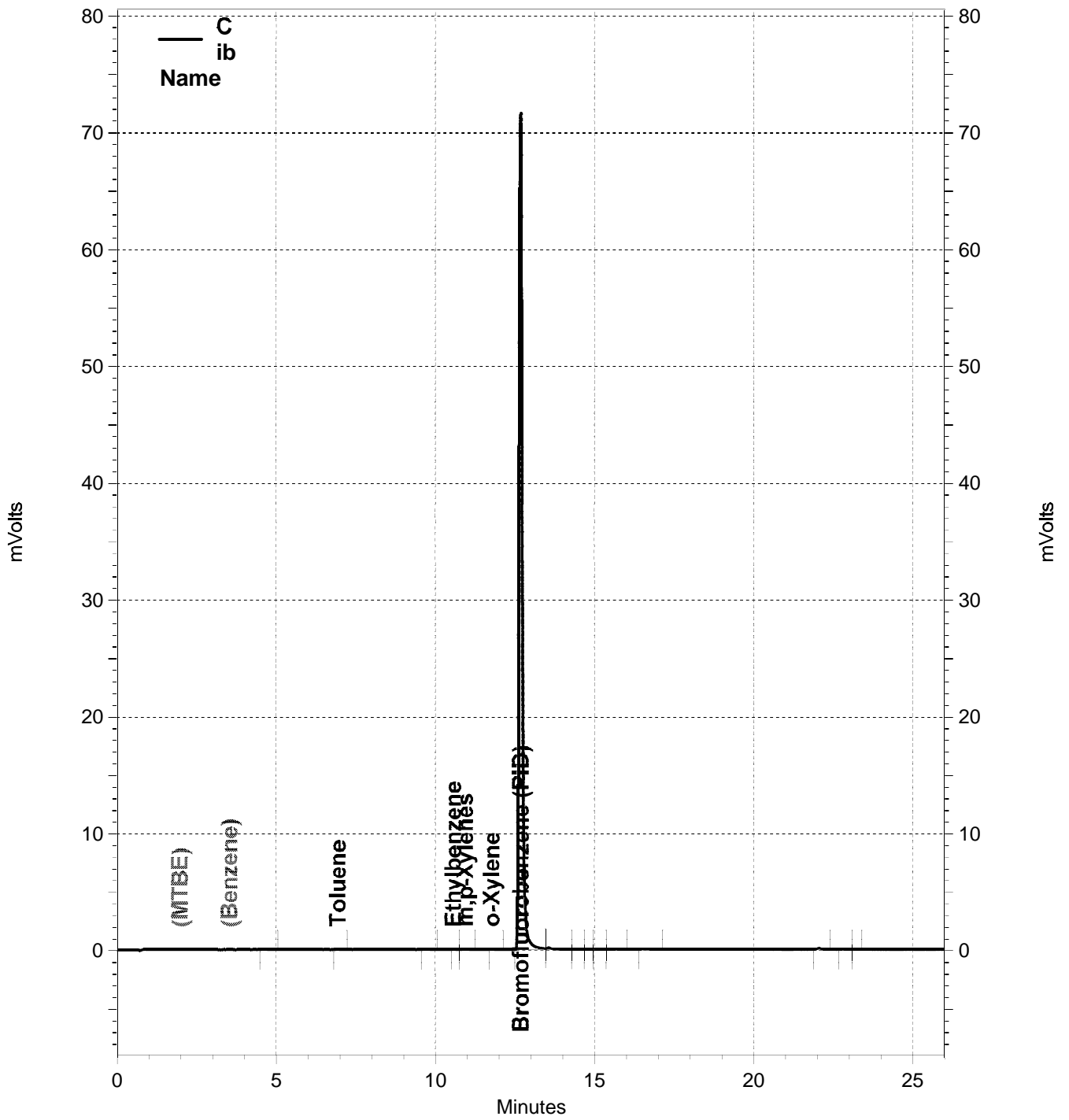
QC Raw Data



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-007, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-007, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-007, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: ib
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-007
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 3:54:48 PM
Analysis Date: 10/5/2018 4:23:31 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1903185	959.548
GAS:6-10			107261	44.680
GAS:6-12			204664	72.987
GAS:7-12			182443	81.588
JP4:7-12			182443	48.662

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.133		0.000 BDL
Benzene	4.650	4.667	20041	2.542
Toluene	8.500	8.483	21346	2.752
Ethylbenzene	12.367	12.350	8437	1.406
m,p-Xylenes	12.583	12.567	18706	2.451
o-Xylene	13.700	13.683	16758	2.398
Bromofluorobenzene (PID)	15.367	15.350	5268964	829.662

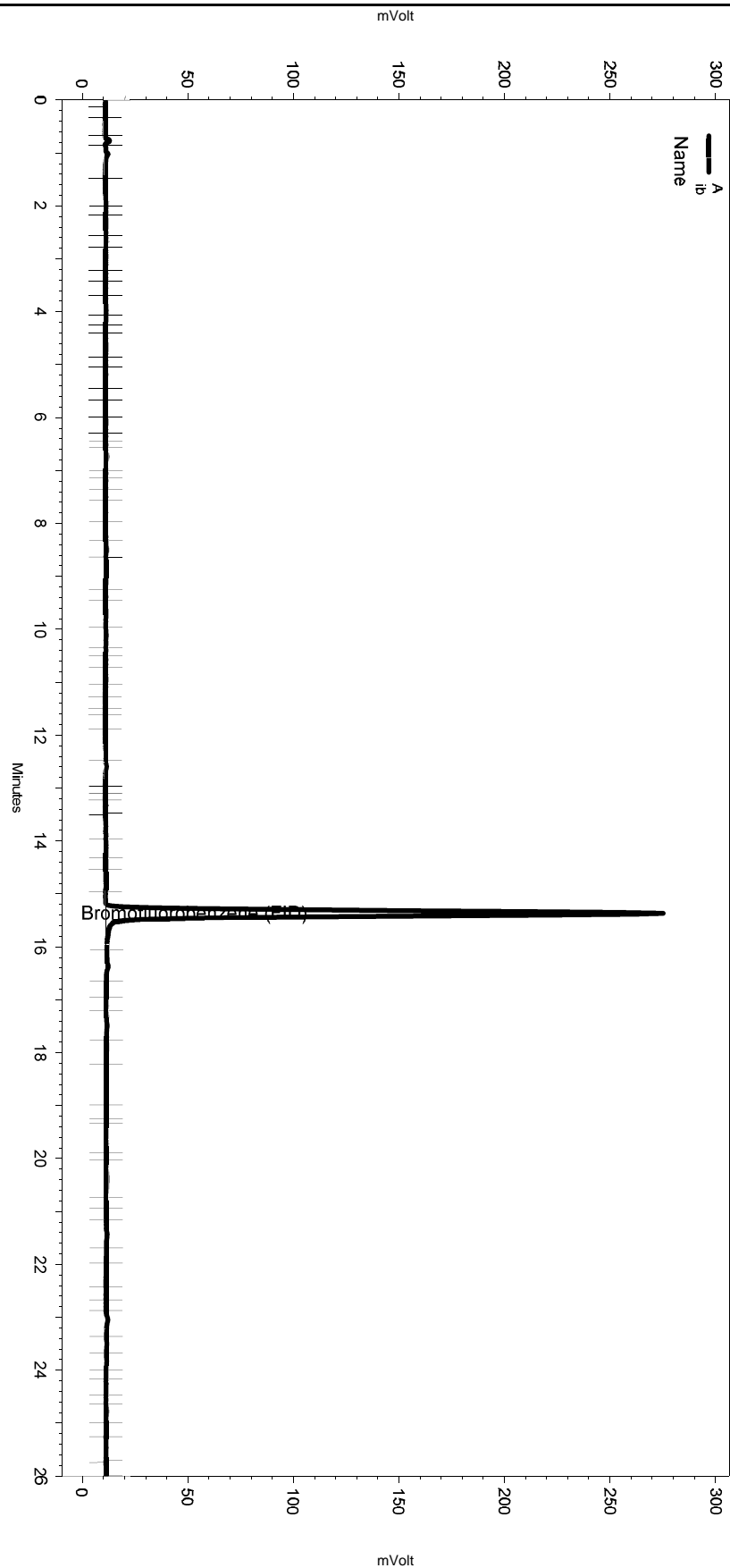
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene		3.533		0.000 BDL
Toluene	6.933	6.916	336	0.450
Ethylbenzene	10.566	10.566	228	0.372
m,p-Xylenes	10.933	10.916	704	0.886
o-Xylene	11.766	11.766	366	0.546
Bromofluorobenzene (PID)	12.683	12.666	499859	820.293

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-007
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 3:54:48 PM
 Analysis Date: 10/5/2018 4:23:31 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

=====
 Manual Integration Fixes

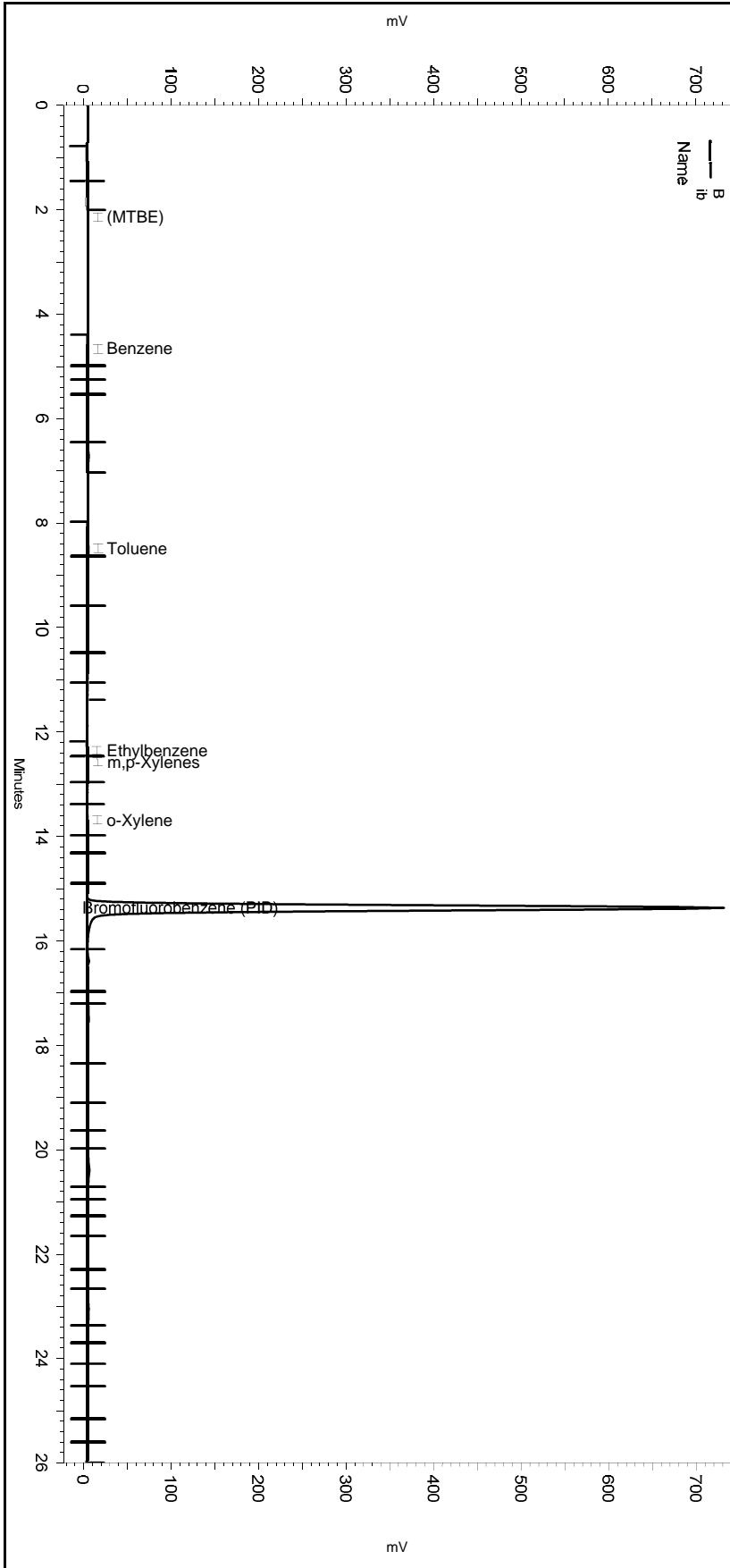
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-007_7D12.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-007
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 3:54:48 PM
 Analysis Date: 10/5/2018 4:23:31 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

=====
 Manual Integration Fixes

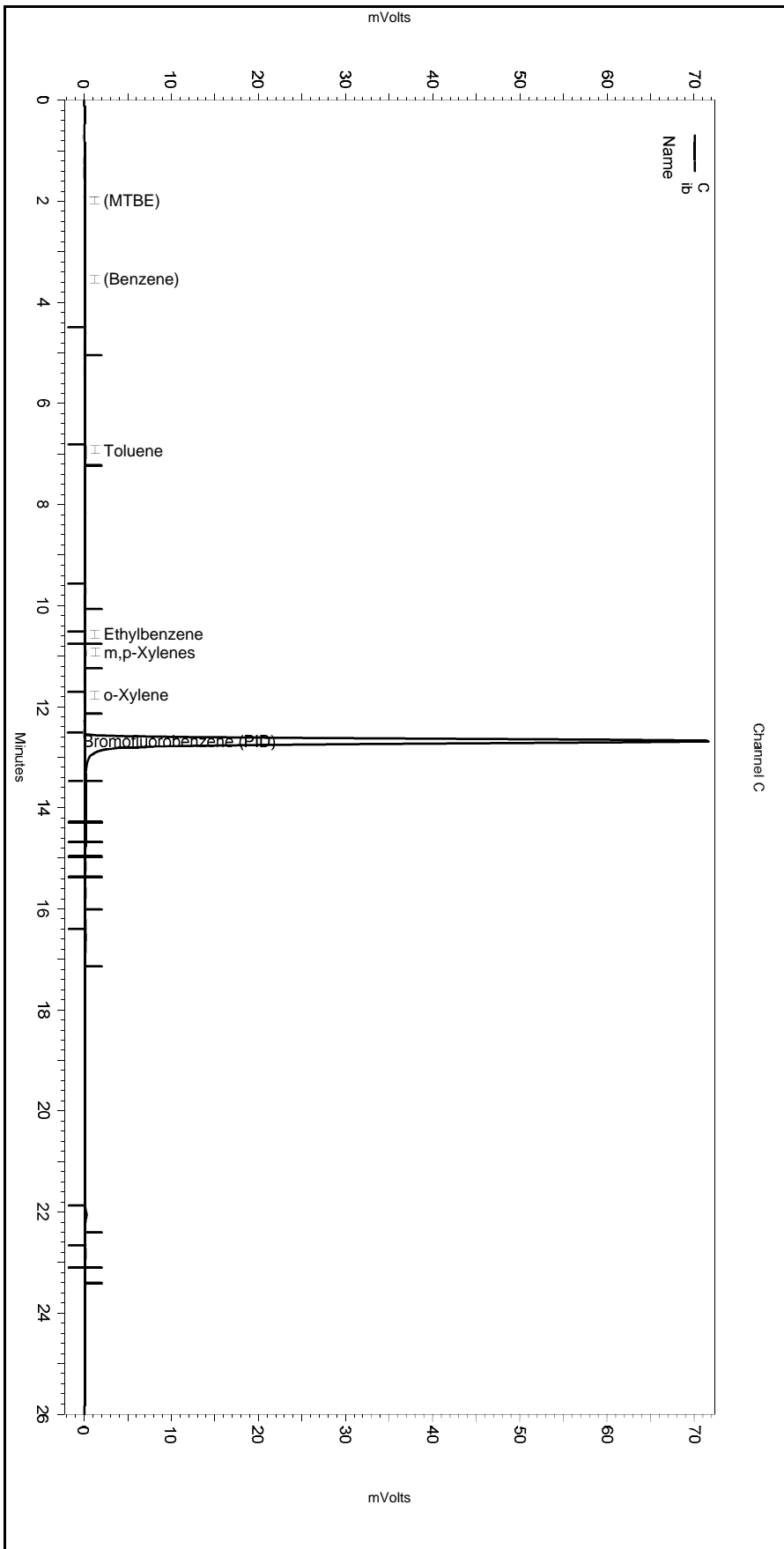
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-007_7D12.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-007
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 3:54:48 PM
 Analysis Date: 10/5/2018 4:23:31 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-007_7D12.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

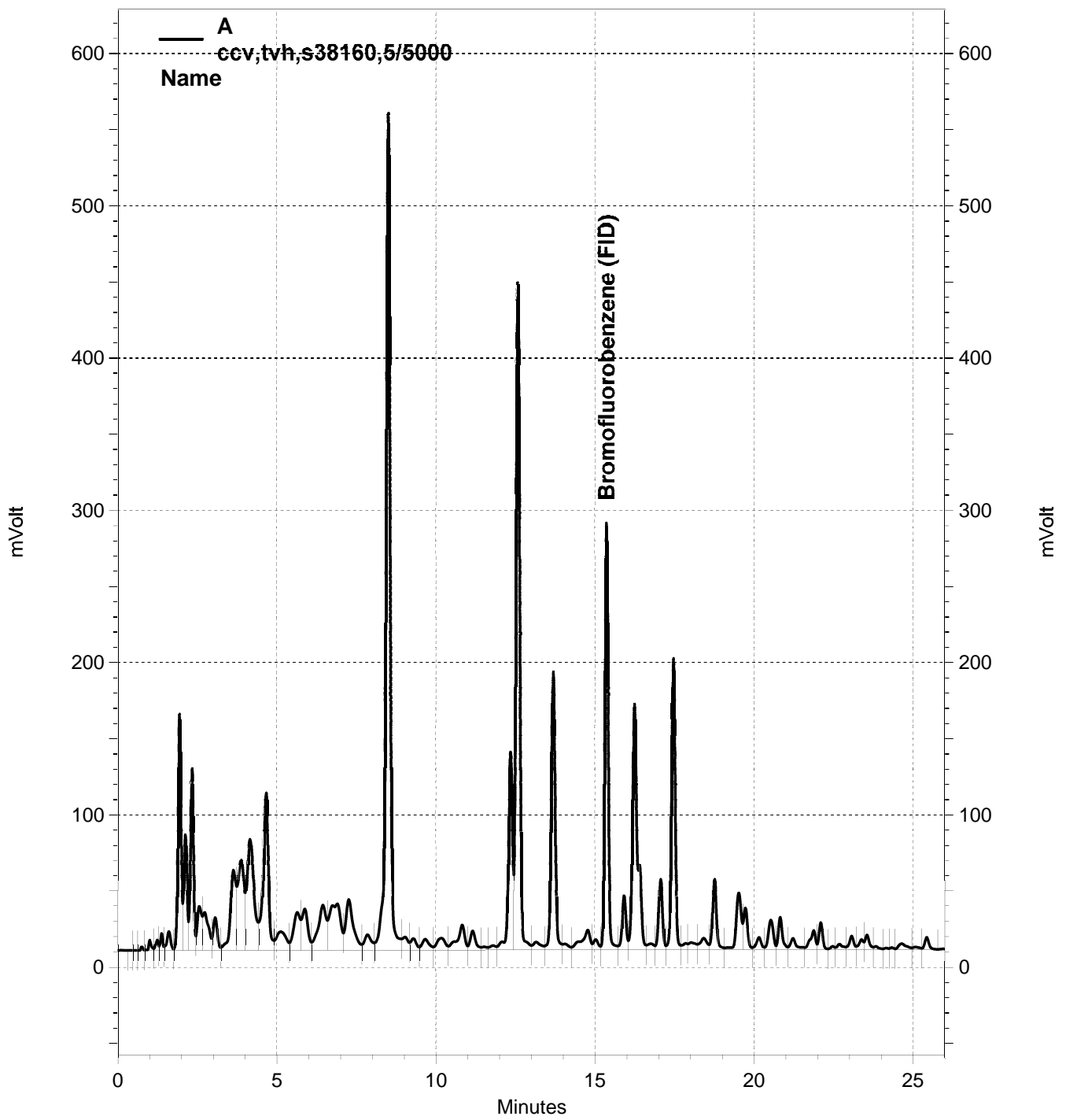
ENTHALPY SPIKE USER REPORT FOR 303845 GCVOA Water
EPA 8015B

Type : CCV/LCS
 Inst : GC07
 Seqnum : 328401045018.5
 File : 278_018
 IDF : 1.0
 PDF : 1.0
 Lab ID : QC950811
 Matrix : Water
 Batch : 264247
 Time : 05-OCT-2018 23:05
 Cal : 328359254001
 Units : ug/L

Analyte	Spiked	Raw	CCV/LCS	Ch	%Rec	Limits	Flags
Gasoline C7-C12	2000	10450	2090	A	104	80-120	u
Bromofluorobenzene (FID)	180.0	1025	204.9	A	114	79-120	u

Analyst: JM2 Date: 10/08/18 Reviewer: EAH Date: 10/08/18

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-018, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: ccv,tvh,s38160,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-018
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 11:05:44 PM
Analysis Date: 10/5/2018 11:34:28 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	2032252	1024.621
GAS:6-10			23253740	9686.499
GAS:6-12			27543448	9822.477
GAS:7-12			23367416	10449.807
JP4:7-12			23367416	6232.642

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	64522	50.226
Benzene	4.683	4.667	928138	117.710
Toluene	8.500	8.483	6576324	847.903
Ethylbenzene	12.350	12.350	1267404	211.185
m,p-Xylenes	12.583	12.567	5156198	675.511
o-Xylene	13.683	13.683	1912384	273.668
Bromofluorobenzene (PID)	15.367	15.350	5516904	868.704

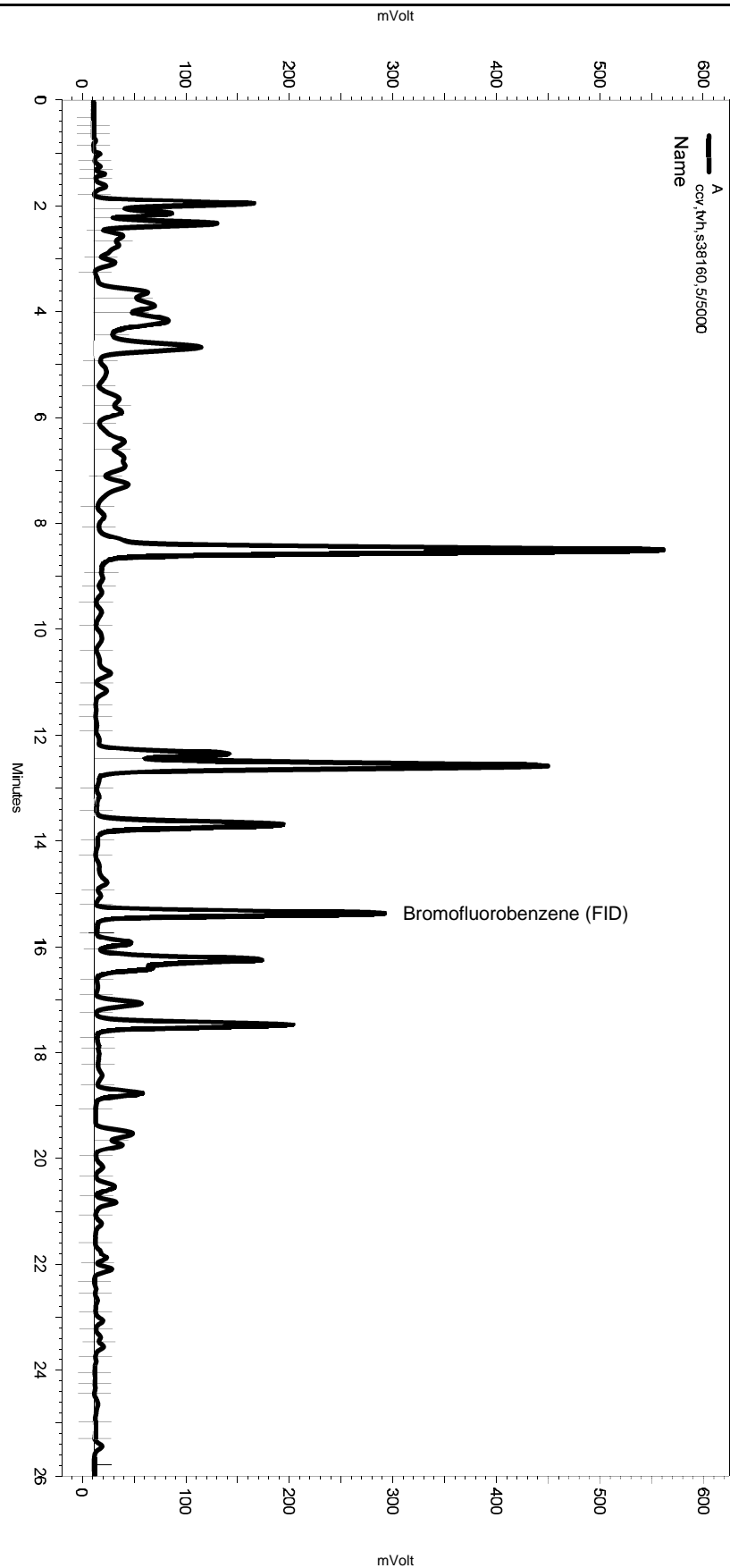
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene	3.533	3.533	82457	120.258
Toluene	6.916	6.916	687508	921.759
Ethylbenzene	10.549	10.566	120787	196.884
m,p-Xylenes	10.899	10.916	522905	657.987
o-Xylene	11.766	11.766	195984	292.508
Bromofluorobenzene (PID)	12.666	12.666	529369	868.720

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,tvh,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 11:05:44 PM
 Analysis Date: 10/5/2018 11:34:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

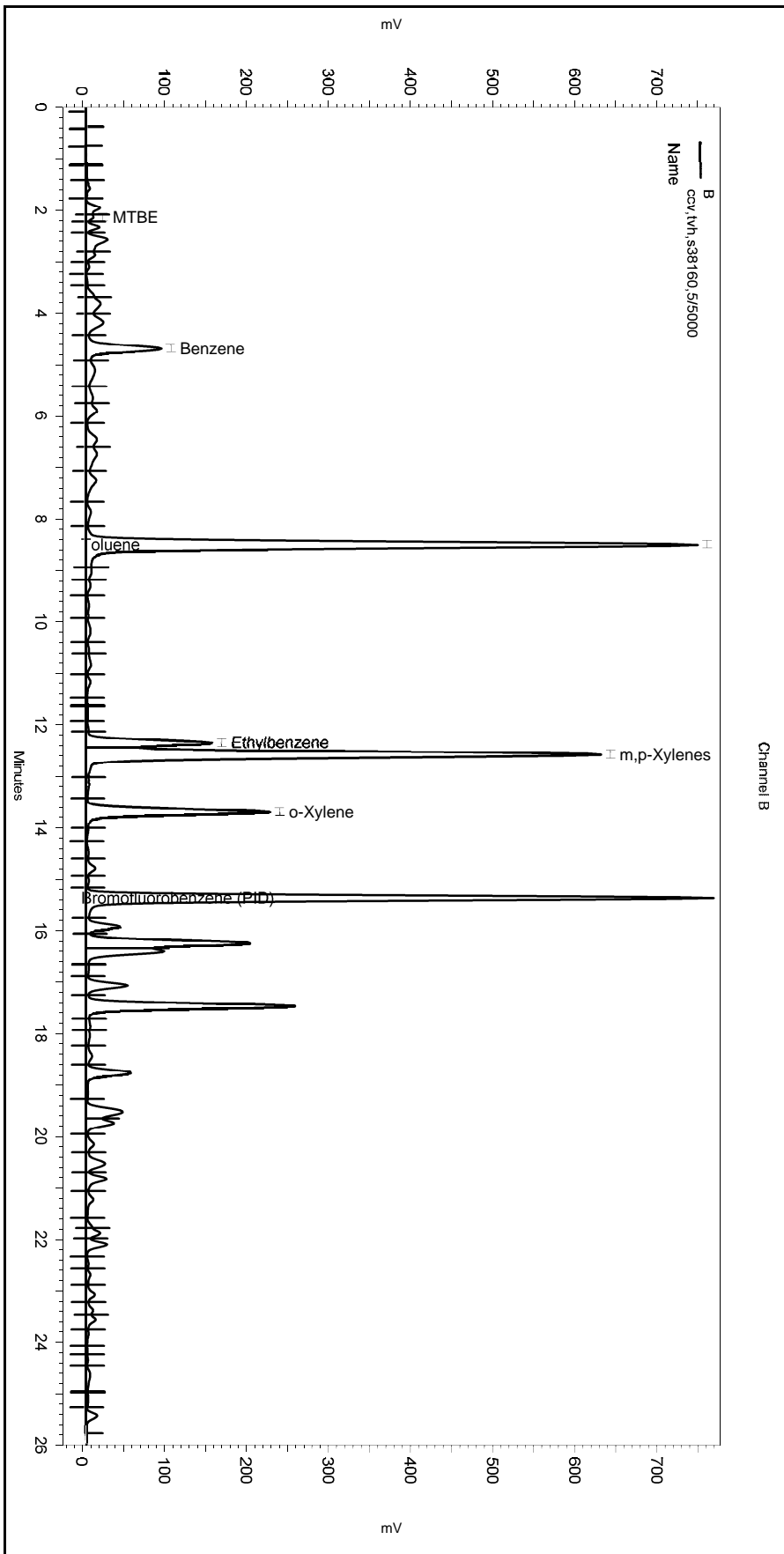
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-018_7D1D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,tvh,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 11:05:44 PM
 Analysis Date: 10/5/2018 11:34:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

=====
 Manual Integration Fixes

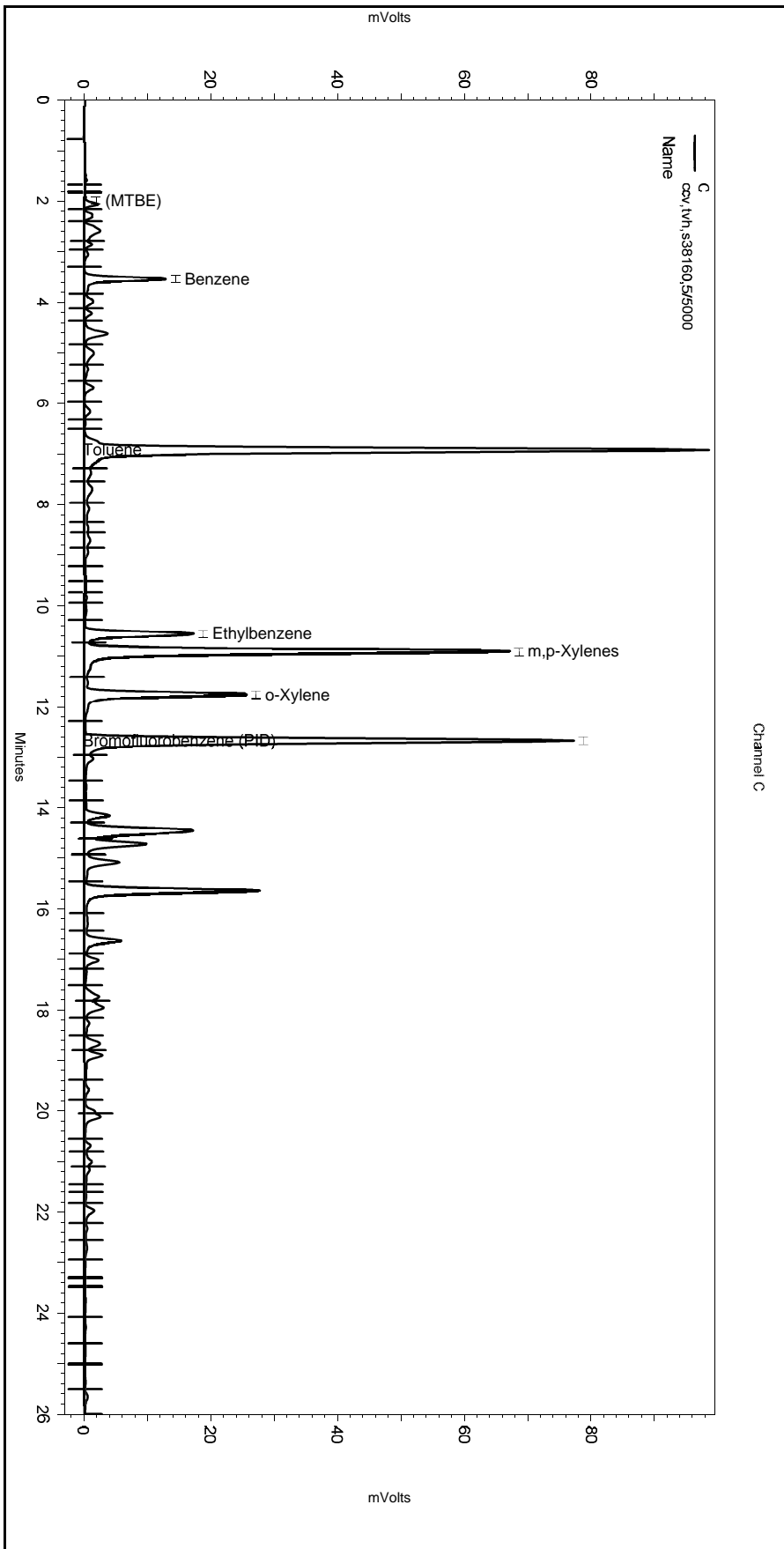
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-018_7D1D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: ccv,tvh,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-018
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 11:05:44 PM
 Analysis Date: 10/5/2018 11:34:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-018_7D1D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SPIKE USER REPORT FOR 303845 GCVOA Water
EPA 8021B

Type : CCV/BS
 Inst : GC07
 Seqnum : 328401045004.3
 File : 278_004
 IDF : 1.0
 PDF : 1.0
 Lab ID : QC950606
 Matrix : Water
 Batch : 264247
 Time : 05-OCT-2018 14:00
 Cal : 328399506001
 Units : ug/L

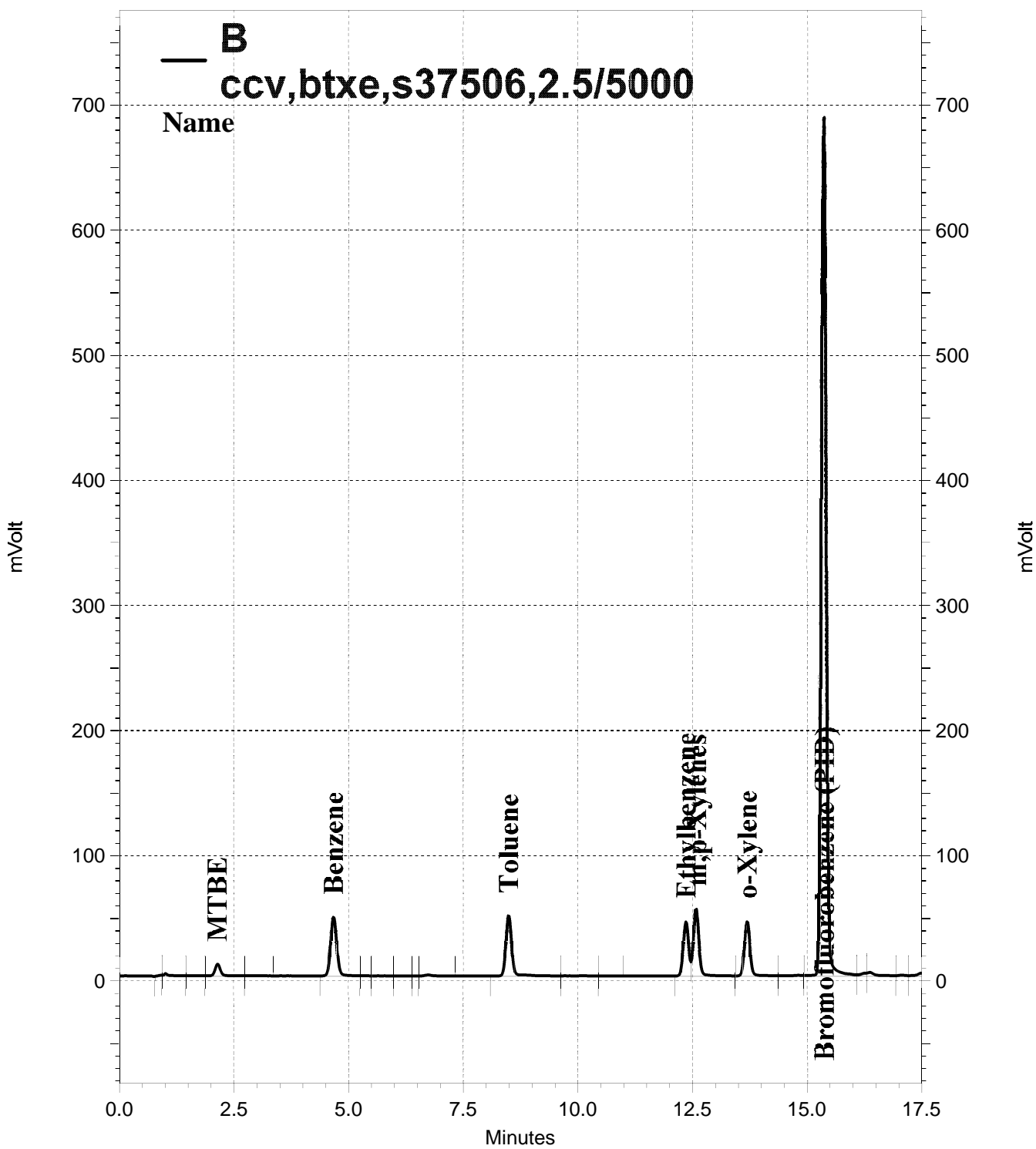
Type : BSD
 Inst : GC07
 Seqnum : 328401045020.3
 File : 278_020
 IDF : 1.0
 PDF : 1.0
 Lab ID : QC950607
 Matrix : Water
 Batch : 264247
 Time : 06-OCT-2018 00:21
 Cal : 328399506001

Analyte	Spiked	CCV/BS	CCV/BS	Ch	%Rec	BSD	BSD	Ch	%Rec	Limits	RPD	Lim	Flags
		Raw	Result			Raw	Result						
Benzene	10.00	57.71	11.54	C	115	57.05	11.41	C	114	80-120	1	20	u
Toluene	10.00	51.00	10.20	C	102	49.63	9.926	C	99	80-120	3	20	u
Ethylbenzene	10.00	51.71	10.34	C	103	48.36	9.672	C	97	79-120	7	20	u
m,p-Xylenes	10.00	50.80	10.16	C	102	48.36	9.673	C	97	79-120	5	20	u
o-Xylene	10.00	51.05	10.21	C	102	49.16	9.831	C	98	80-120	4	20	u
Bromofluorobenzene (PID)	180.0	784.5	156.9	C	87	734.7	146.9	C	82	71-127			>c- u

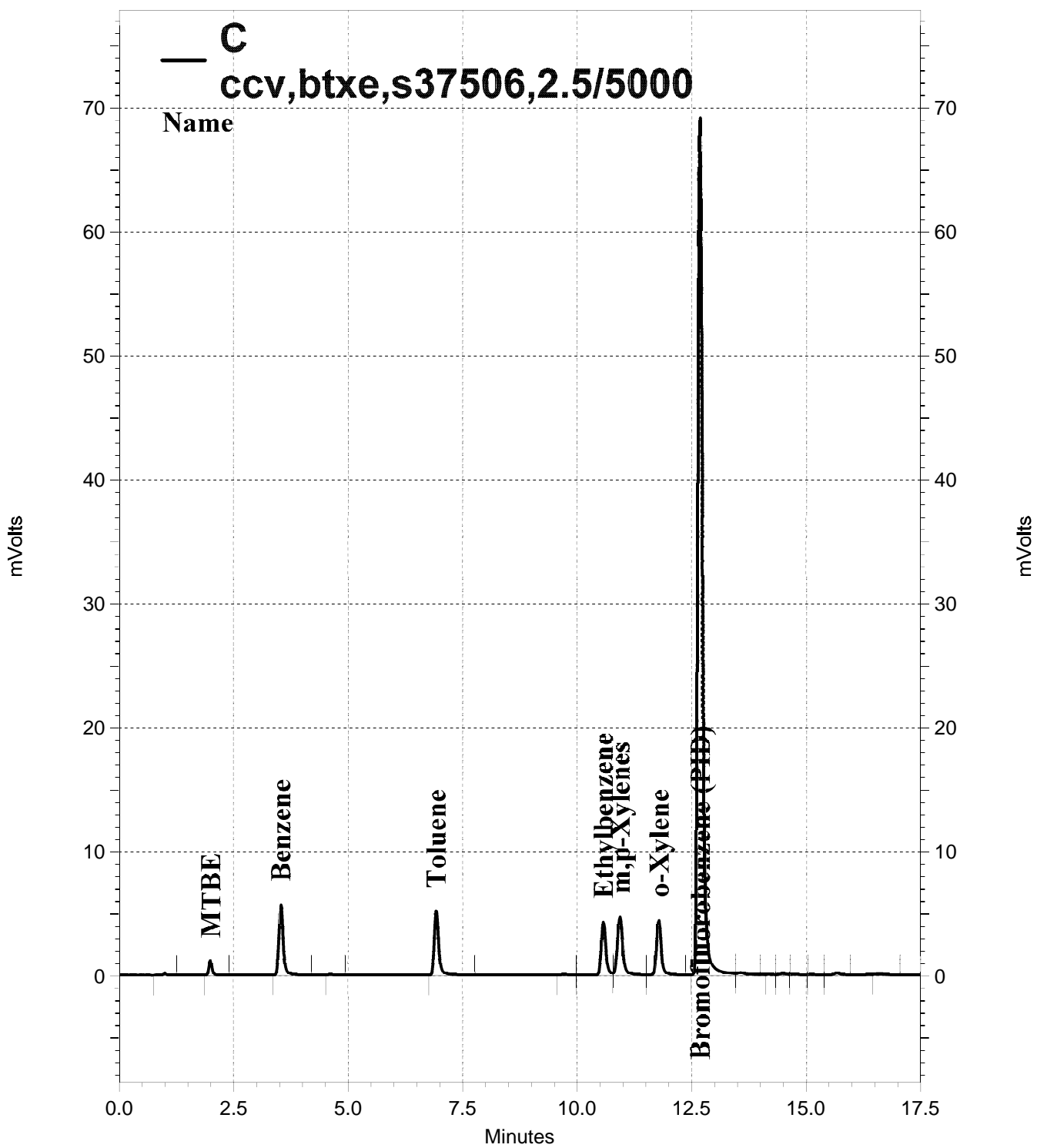
JM2 10/05/18 : Reporting from Channel C for all BTXE analytes using Channel B as confirmation. [general version]

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

--low bias >=closing c=CCV u=use



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: ccv,btxe,s37506,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 2:00:34 PM
Analysis Date: 10/5/2018 2:31:54 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1797216	906.121
GAS:6-10			1553728	647.216
GAS:6-12			1687028	601.624
GAS:7-12			1664842	744.510
JP4:7-12			1664842	444.053

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	94494	73.558
Benzene	4.667	4.667	455464	57.764
Toluene	8.483	8.483	452348	58.322
Ethylbenzene	12.350	12.350	353971	58.981
m,p-Xylenes	12.583	12.567	460263	60.299
o-Xylene	13.683	13.683	383881	54.934
Bromofluorobenzene (PID)	15.367	15.350	4992958	786.202

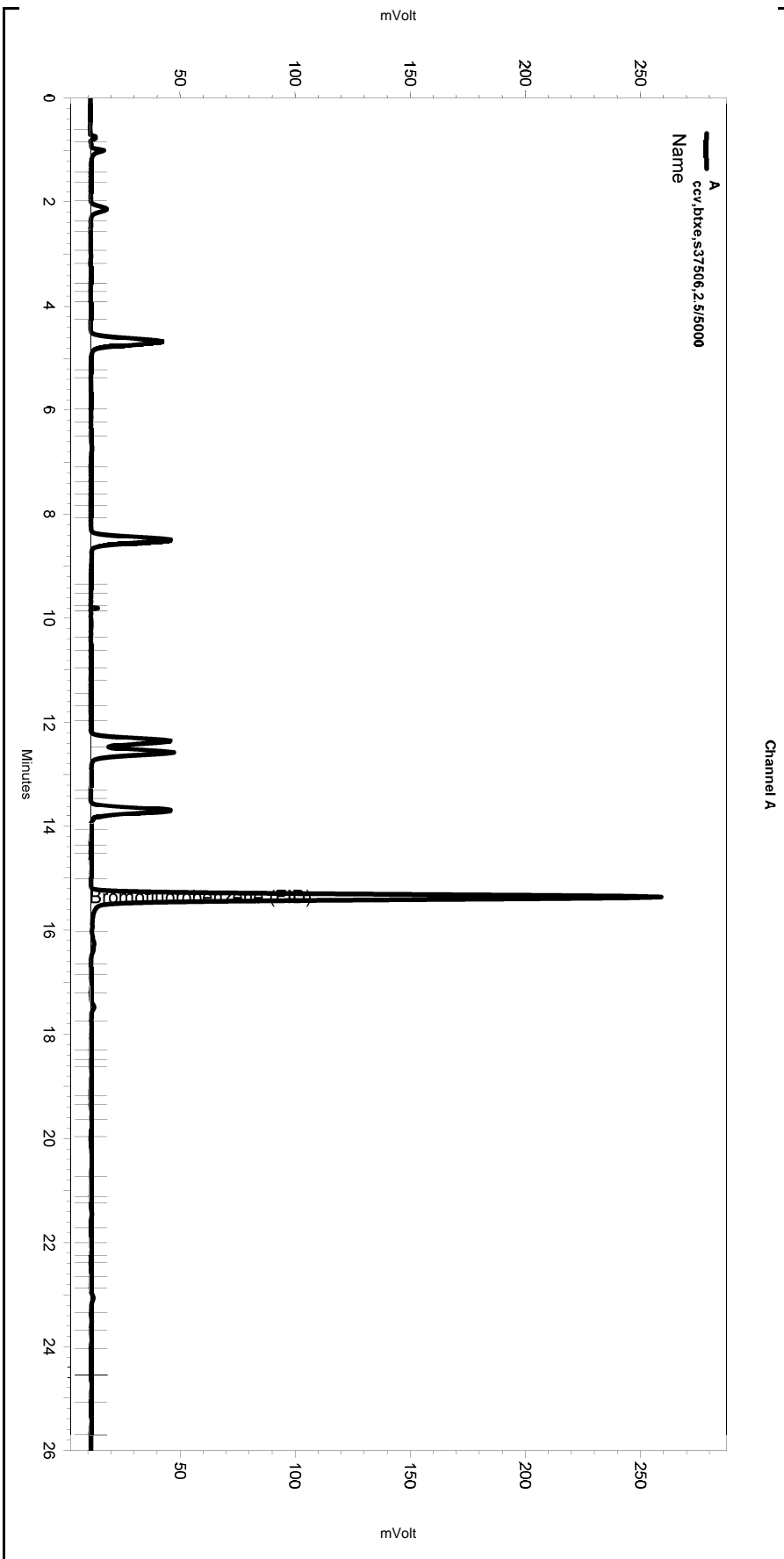
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.000	1.983	6688	58.231
Benzene	3.533	3.533	39568	57.707
Toluene	6.916	6.916	38037	50.997
Ethylbenzene	10.566	10.566	31725	51.712
m,p-Xylenes	10.933	10.916	40373	50.803
o-Xylene	11.783	11.766	34202	51.047
Bromofluorobenzene (PID)	12.683	12.666	478022	784.457

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 2:00:34 PM
 Analysis Date: 10/5/2018 2:31:54 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled Event Type		Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

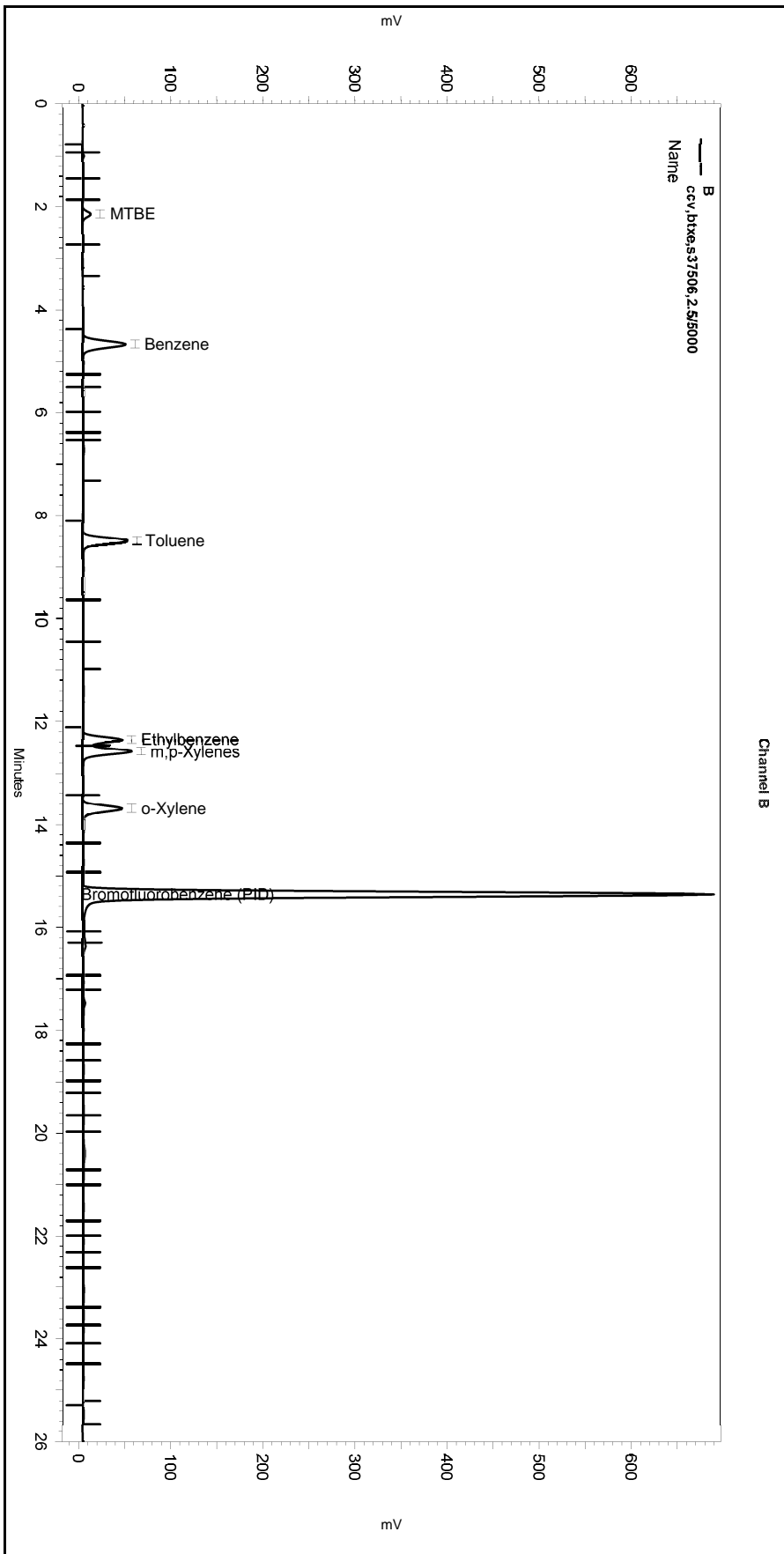
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004

Enabled Event Type		Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 2:00:34 PM
 Analysis Date: 10/5/2018 2:31:54 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

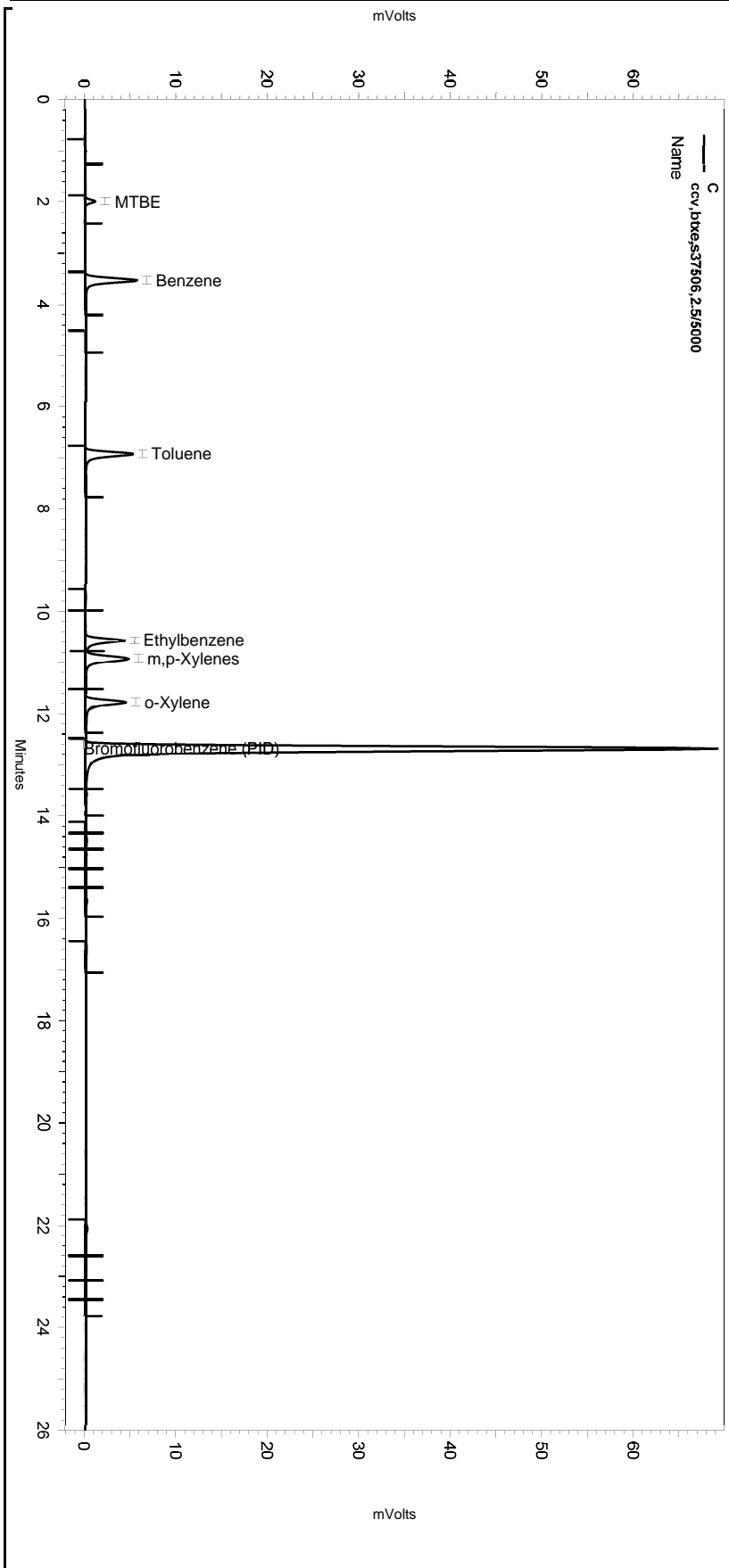
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 2:00:34 PM
 Analysis Date: 10/5/2018 2:31:54 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

---< General Method Parameters >---

No items selected for this section

---< C >---

No items selected for this section

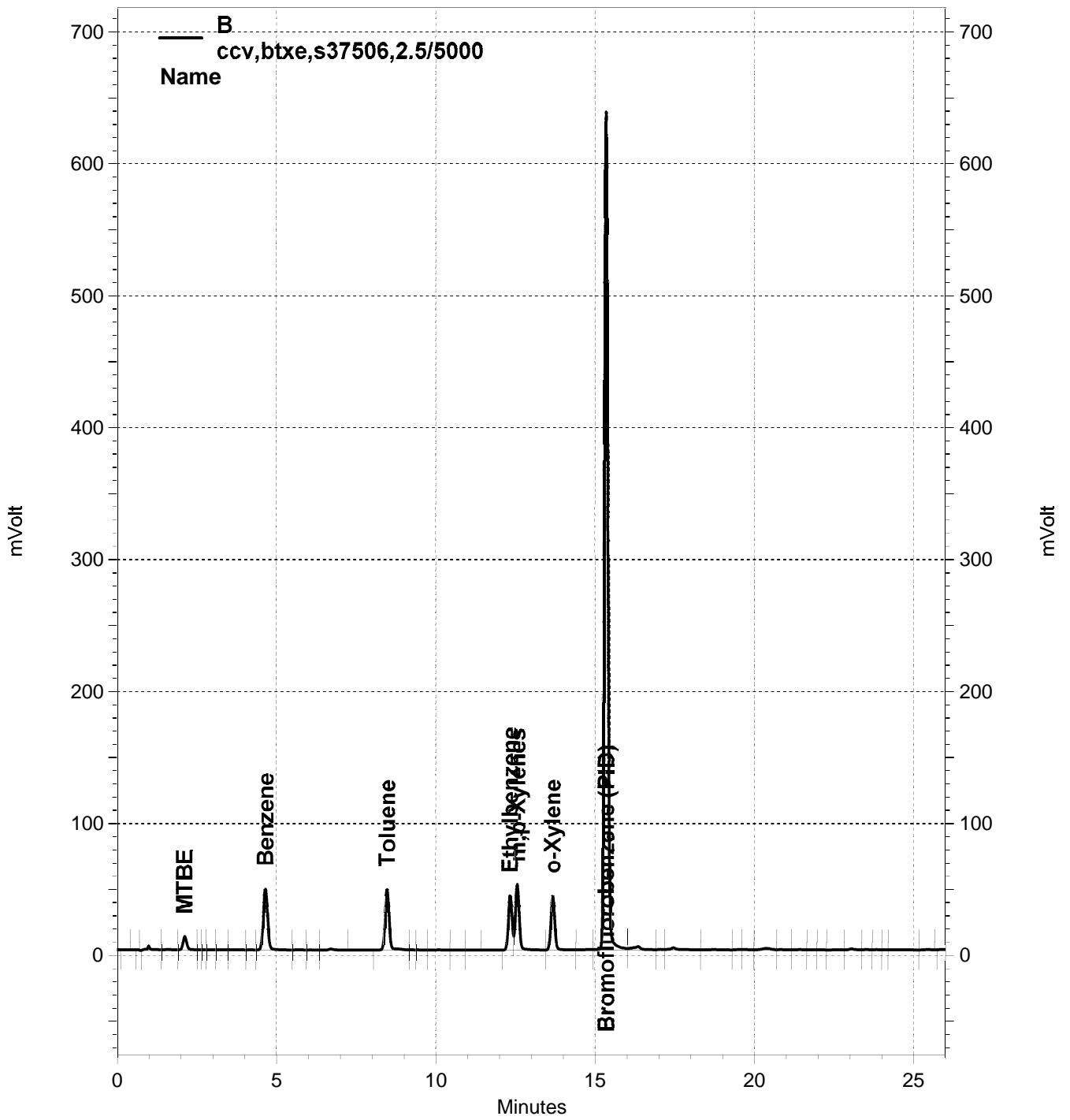
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

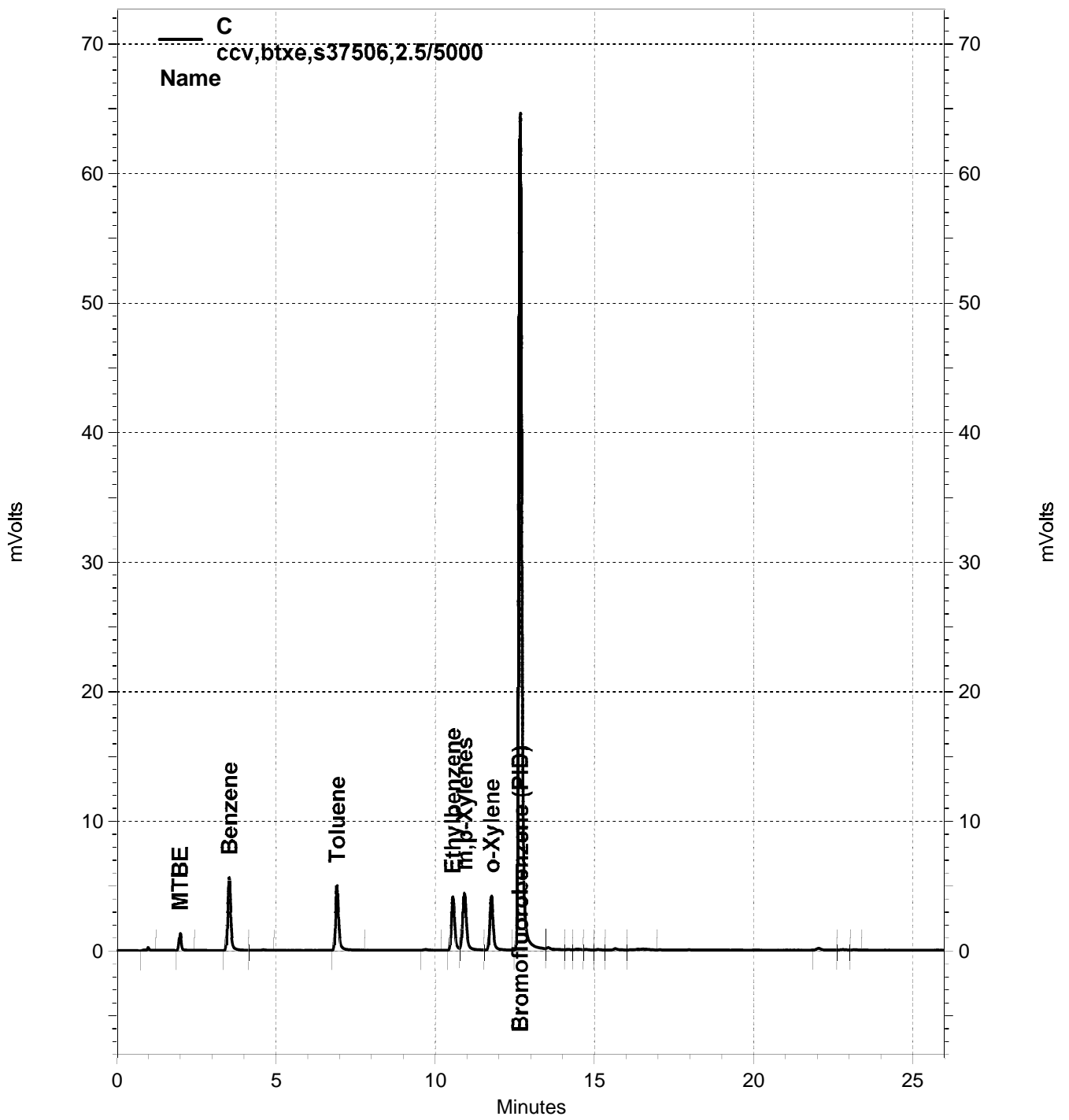
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-020, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-020, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: ccv,btxe,s37506,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-020
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/6/2018 12:21:51 AM
Analysis Date: 10/6/2018 12:50:33 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	1694679	854.424
GAS:6-10			1552997	646.911
GAS:6-12			1661267	592.437
GAS:7-12			1645338	735.788
JP4:7-12			1645338	438.850

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	94093	73.245
Benzene	4.667	4.667	444618	56.388
Toluene	8.483	8.483	407448	52.533
Ethylbenzene	12.333	12.350	329609	54.922
m,p-Xylenes	12.567	12.567	415573	54.444
o-Xylene	13.667	13.683	344769	49.337
Bromofluorobenzene (PID)	15.350	15.350	4609326	725.794

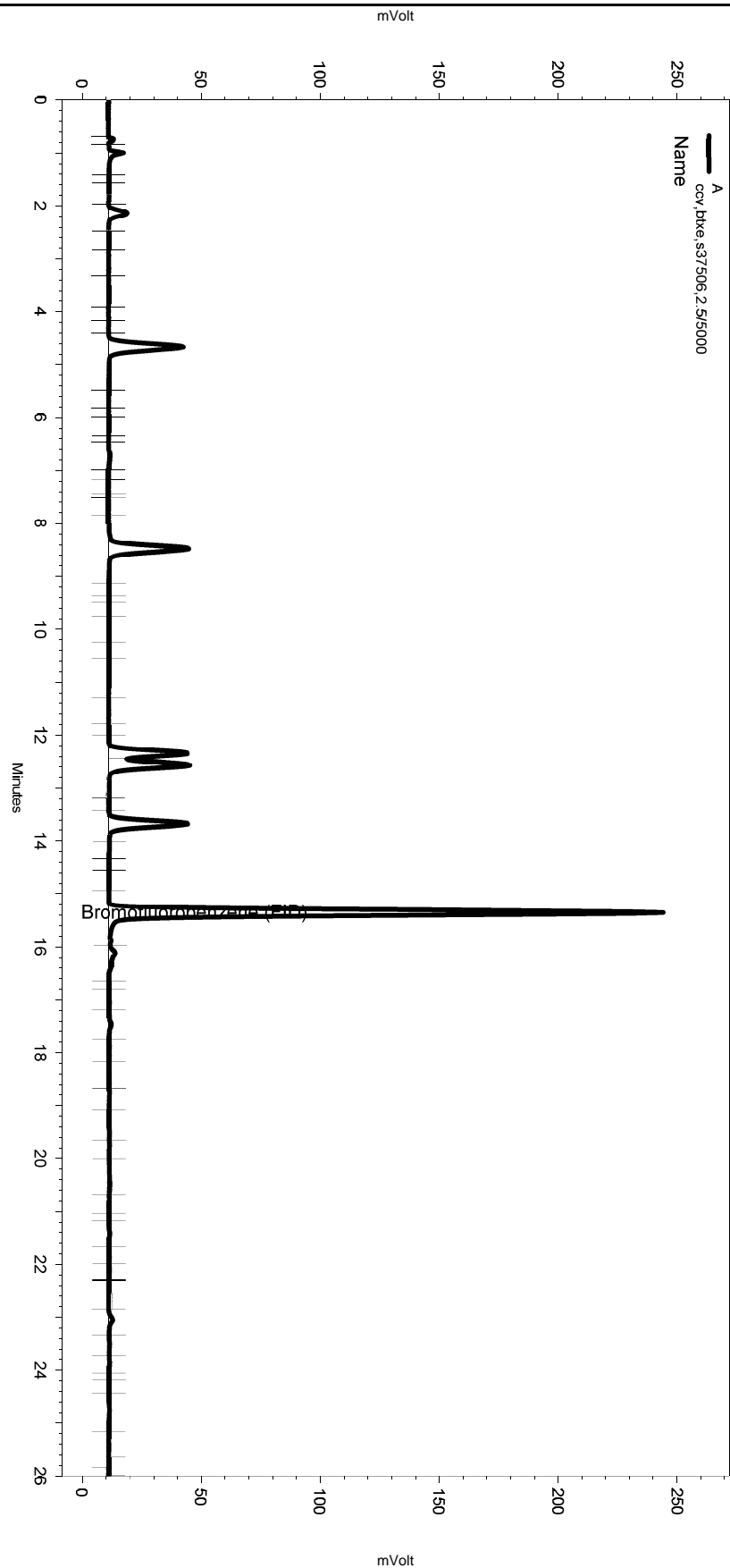
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	7529	65.554
Benzene	3.533	3.533	39115	57.046
Toluene	6.916	6.916	37016	49.628
Ethylbenzene	10.549	10.566	29670	48.362
m,p-Xylenes	10.916	10.916	38435	48.364
o-Xylene	11.766	11.766	32936	49.157
Bromofluorobenzene (PID)	12.666	12.666	447701	734.699

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-020
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/6/2018 12:21:51 AM
 Analysis Date: 10/6/2018 12:50:33 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

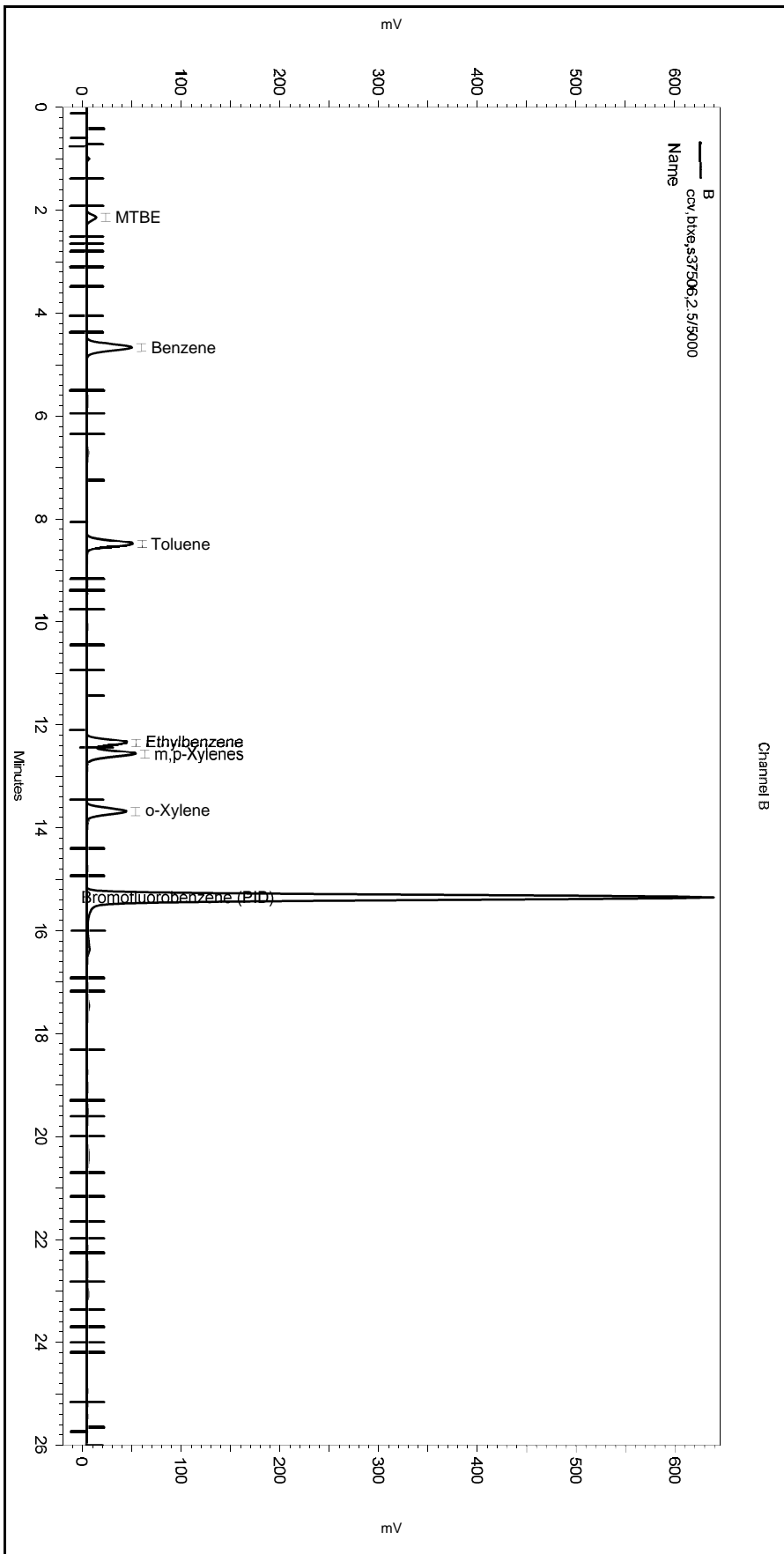
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-020_7D1F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-020
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/6/2018 12:21:51 AM
 Analysis Date: 10/6/2018 12:50:33 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

=====
 Manual Integration Fixes

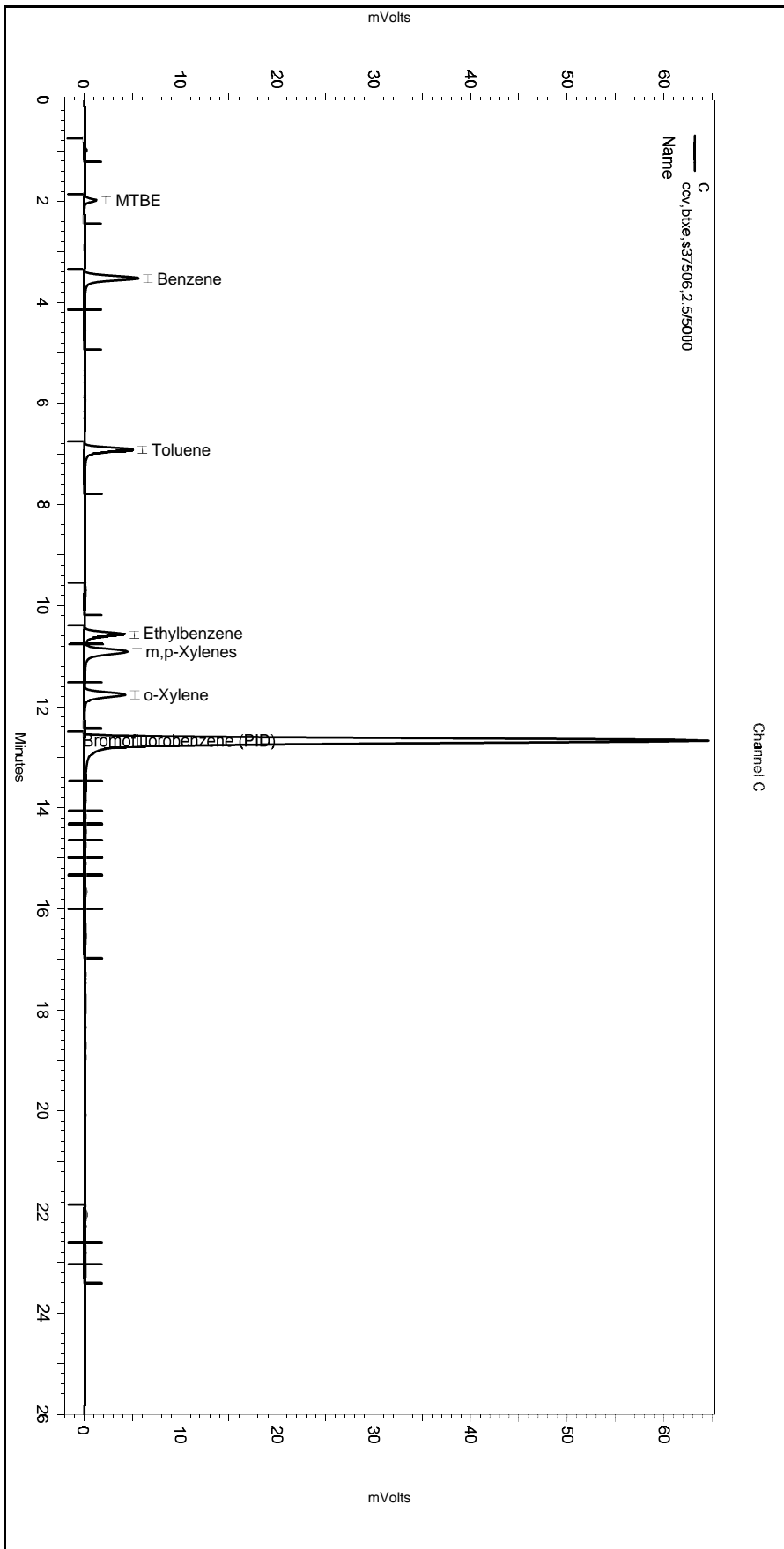
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-020_7D1F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-020
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/6/2018 12:21:51 AM
 Analysis Date: 10/6/2018 12:50:33 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-020_7D1F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

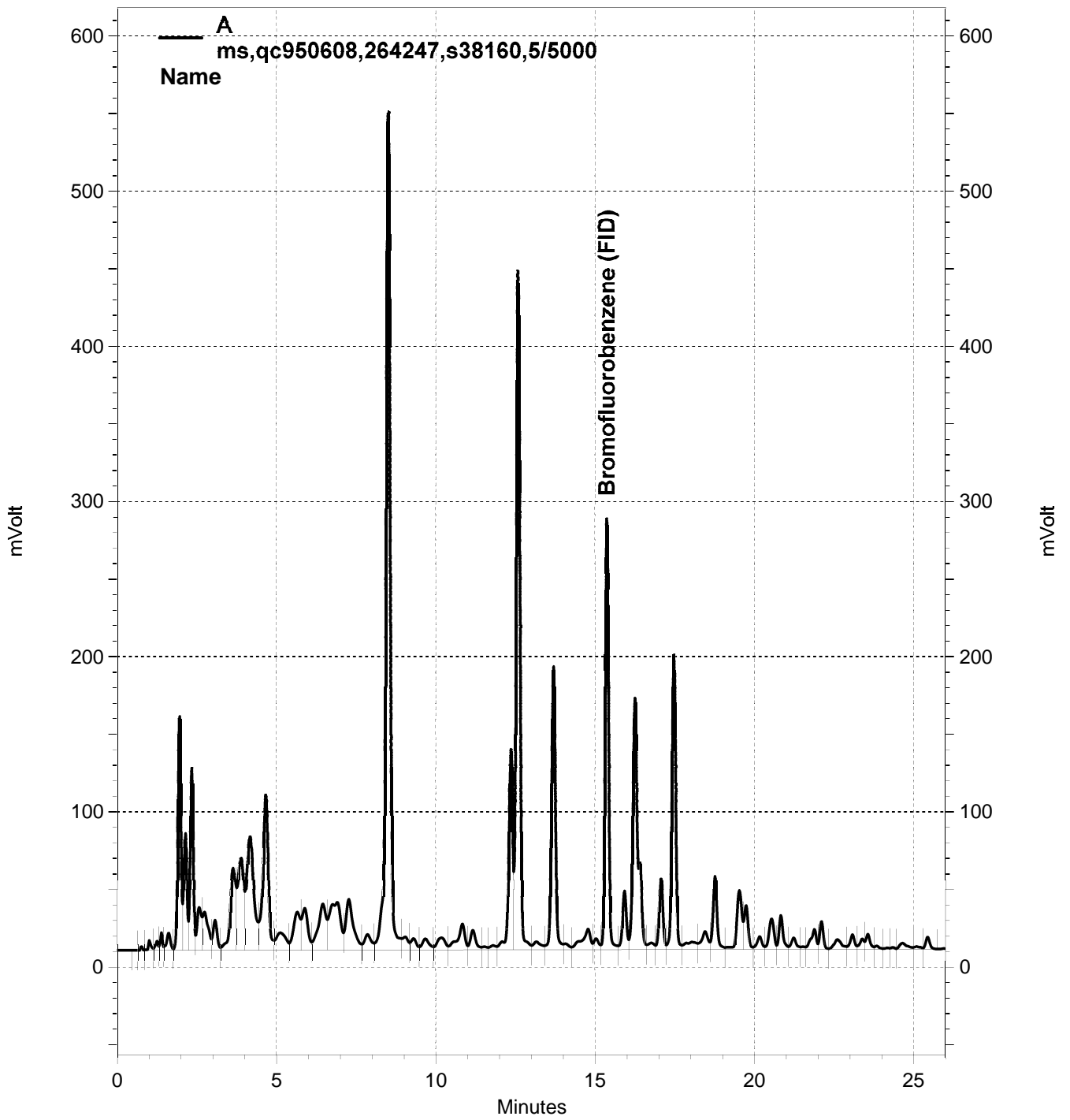
ENTHALPY SPIKE USER REPORT FOR 303845 GCVOA Water
EPA 8015B

Type : MSS	Type : MS	Type : MSD
Inst : GC07	Inst : GC07	Inst : GC07
Seqnum : 328401045008	Seqnum : 328401045016.3	Seqnum : 328401045017.3
File : 278_008	File : 278_016	File : 278_017
IDF : 1.0	IDF : 1.0	IDF : 1.0
PDF : 1.0	PDF : 1.0	PDF : 1.0
Lab ID : 303845-001	Lab ID : QC950608	Lab ID : QC950609
Matrix : Water	Matrix : Water	Matrix : Water
Batch : 264247	Batch : 264247	Batch : 264247
Time : 05-OCT-2018 16:42	Time : 05-OCT-2018 21:49	Time : 05-OCT-2018 22:27
Cal : 328359254001	Cal : 328359254001	Cal : 328359254001
Units : ug/L		

Analyte	MSS	Ch	Spiked	MS		Ch	%Rec	MSD		Ch	%Rec	Limits	RPD	Lim	Flags
				Raw	Result			Raw	Result						
Gasoline C7-C12	31.98 J	A	2000	10500	2100	A	103	10640	2128	A	105	80-120	1	20	u
Bromofluorobenzene (FID)			180.0	1032	206.5	A	115	1049	209.8	A	117	79-120			u

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-016, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: ms,qc950608,264247,s38160,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-016
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 9:49:11 PM
Analysis Date: 10/5/2018 10:17:55 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	2047628	1032.374
GAS:6-10			23111386	9627.200
GAS:6-12			27592142	9839.839
GAS:7-12			23476642	10498.650
JP4:7-12			23476642	6261.774

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.150	2.133	70238	54.676
Benzene	4.700	4.667	879804	111.580
Toluene	8.500	8.483	6542773	843.577
Ethylbenzene	12.367	12.350	1235798	205.918
m,p-Xylenes	12.583	12.567	5193943	680.456
o-Xylene	13.700	13.683	1904637	272.559
Bromofluorobenzene (PID)	15.367	15.350	5612961	883.829

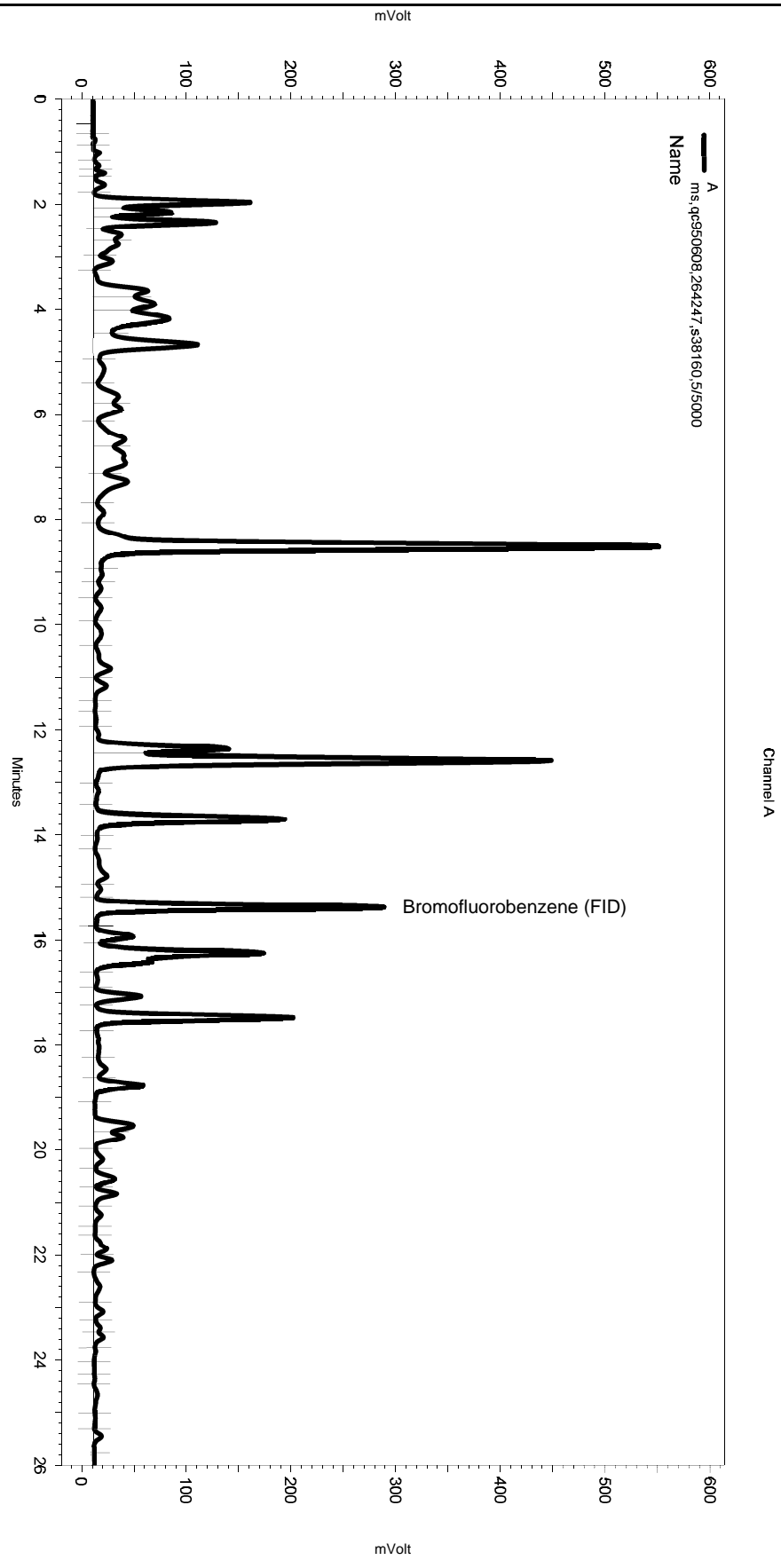
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene	3.533	3.533	77274	112.699
Toluene	6.916	6.916	671269	899.987
Ethylbenzene	10.549	10.566	120988	197.212
m,p-Xylenes	10.899	10.916	522925	658.012
o-Xylene	11.766	11.766	195396	291.630
Bromofluorobenzene (PID)	12.666	12.666	533087	874.821

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence12018\278.seq
 Sample Name: ms,qc950608,264247,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-016
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 9:49:11 PM
 Analysis Date: 10/5/2018 10:17:55 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

=====
 Manual Integration Fixes

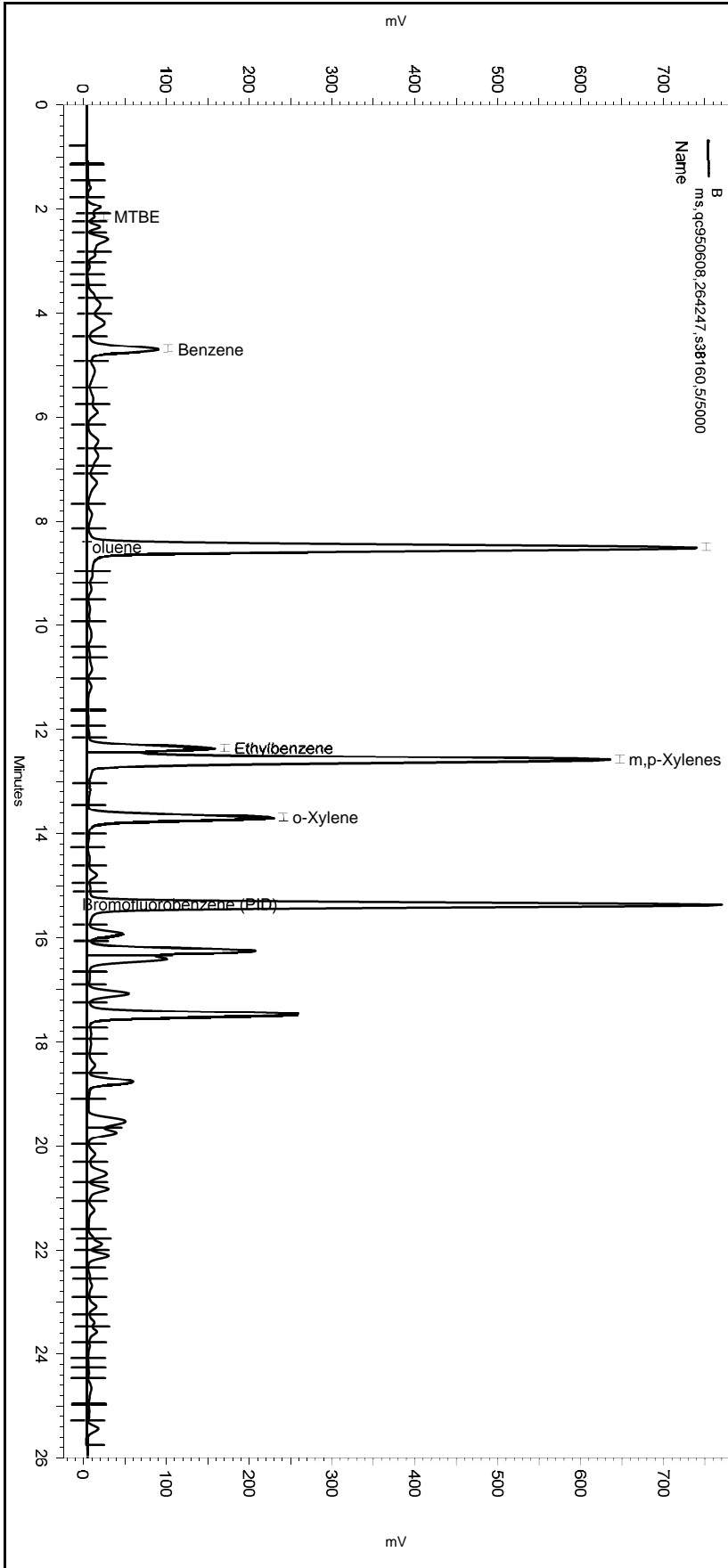
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-016_7D1B.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ms,qc950608,264247,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-016
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 9:49:11 PM
 Analysis Date: 10/5/2018 10:17:55 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

=====
 Manual Integration Fixes

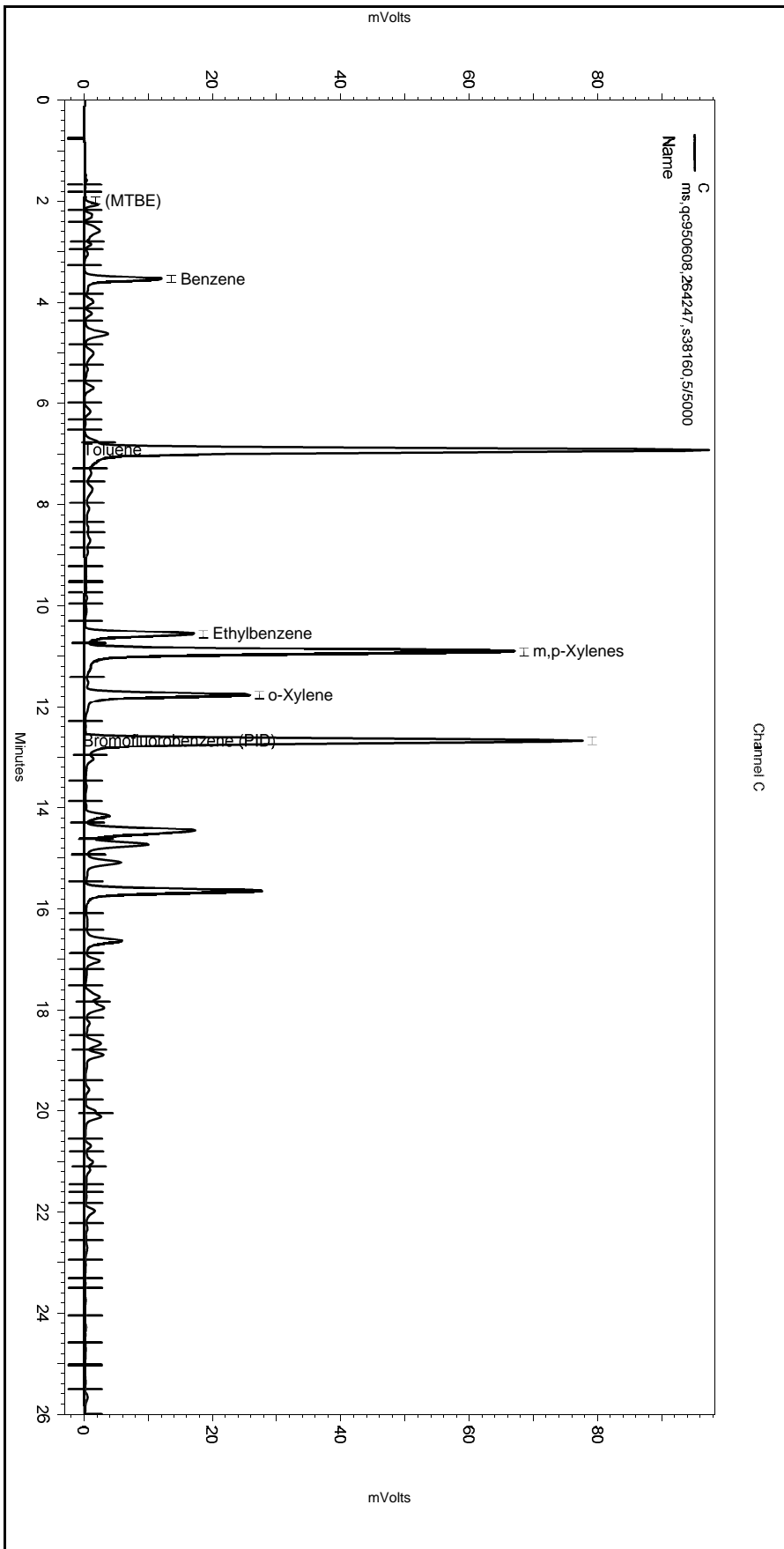
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-016_7D1B.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: ms,qc950608,264247,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-016
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 9:49:11 PM
 Analysis Date: 10/5/2018 10:17:55 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

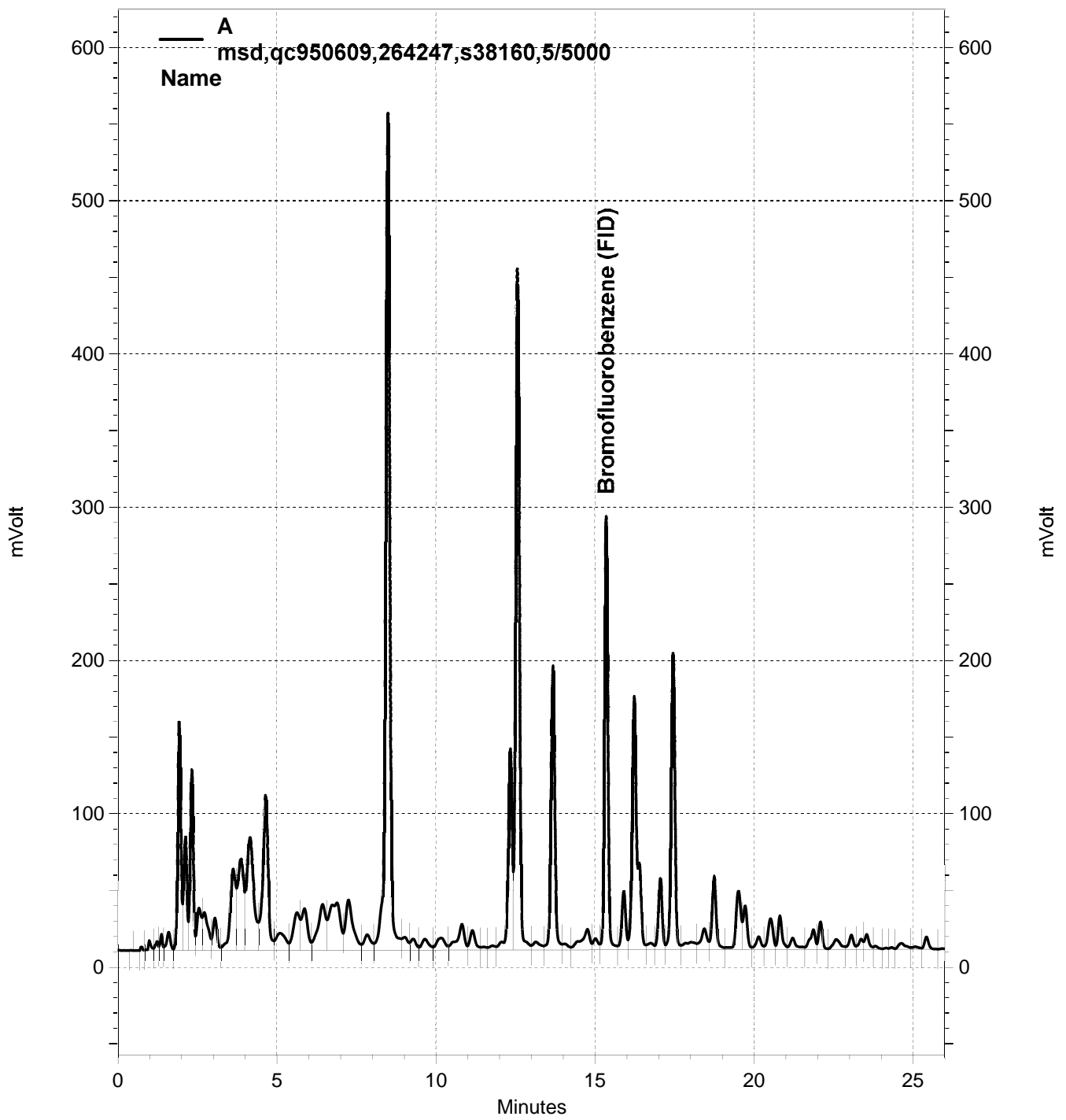
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\278-016_7D1B.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-017, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: msd,qc950609,264247,s38160,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-017
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 10:27:29 PM
Analysis Date: 10/5/2018 10:56:12 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	2080516	1048.955
GAS:6-10			23385564	9741.411
GAS:6-12			27954238	9968.971
GAS:7-12			23797914	10642.323
JP4:7-12			23797914	6347.465

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.133	70356	54.768
Benzene	4.667	4.667	894910	113.496
Toluene	8.483	8.483	6616941	853.139
Ethylbenzene	12.350	12.350	1253747	208.909
m,p-Xylenes	12.567	12.567	5258806	688.953
o-Xylene	13.683	13.683	1936027	277.051
Bromofluorobenzene (PID)	15.350	15.350	5706335	898.532

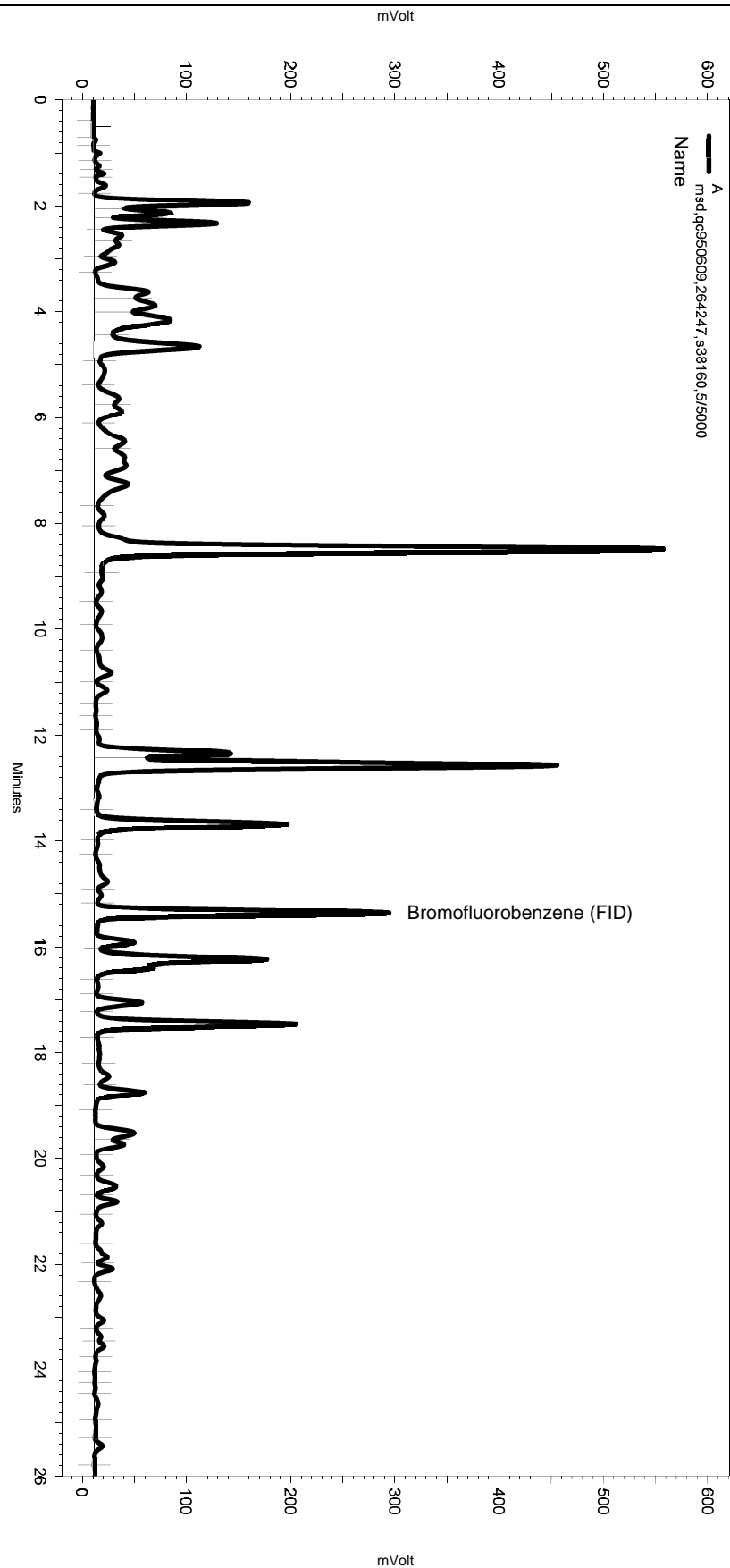
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene	3.533	3.533	76962	112.244
Toluene	6.916	6.916	676087	906.447
Ethylbenzene	10.549	10.566	121446	197.958
m,p-Xylenes	10.899	10.916	527500	663.769
o-Xylene	11.766	11.766	195324	291.522
Bromofluorobenzene (PID)	12.666	12.666	536812	880.934

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence12018\278.seq
 Sample Name: msd,qc950609,264247,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-017
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 10:27:29 PM
 Analysis Date: 10/5/2018 10:56:12 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

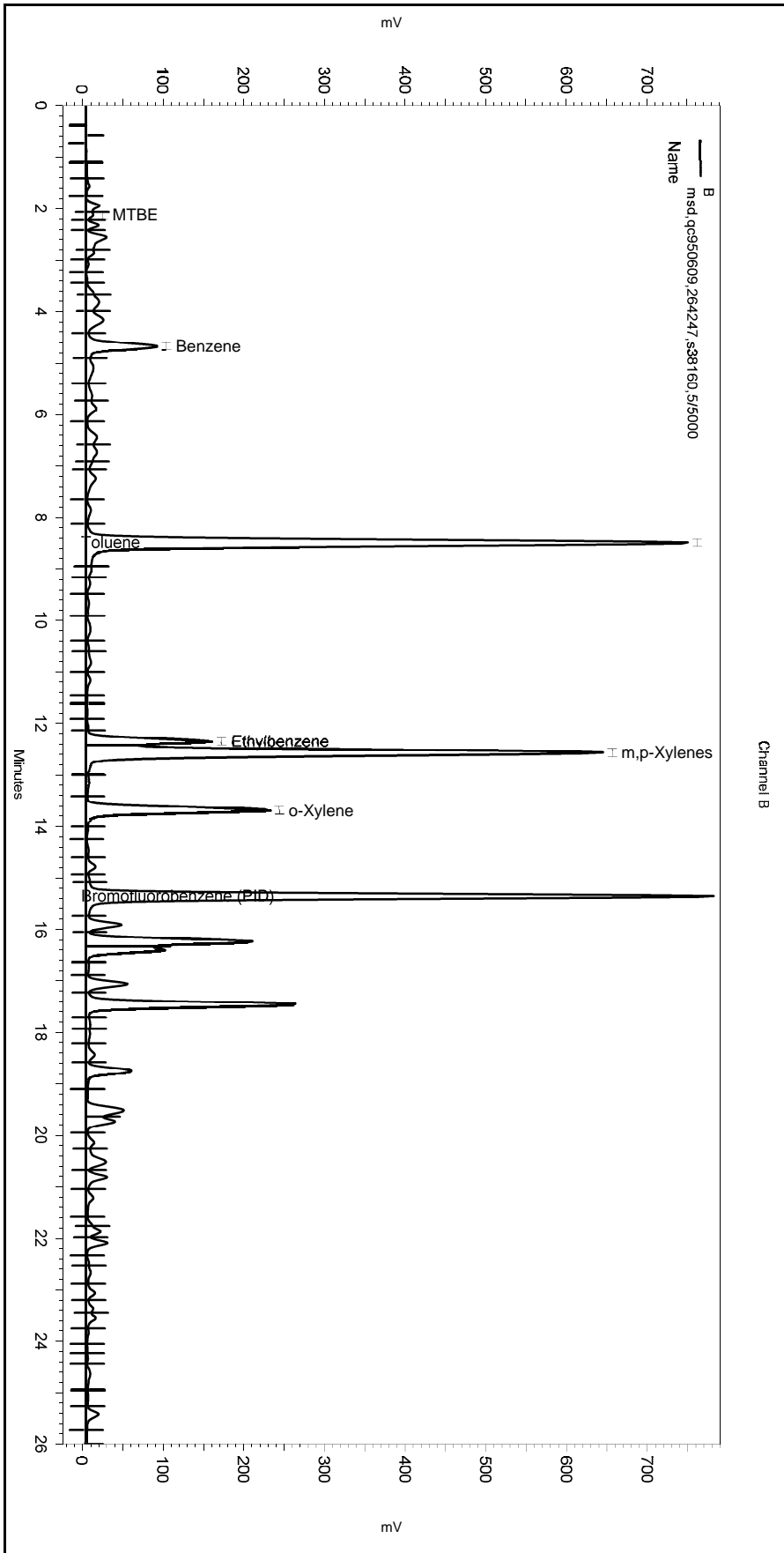
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-017_7D1C.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence12018\278.seq
 Sample Name: msd,qc950609,264247,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-017
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 10:27:29 PM
 Analysis Date: 10/5/2018 10:56:12 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

=====
 Manual Integration Fixes

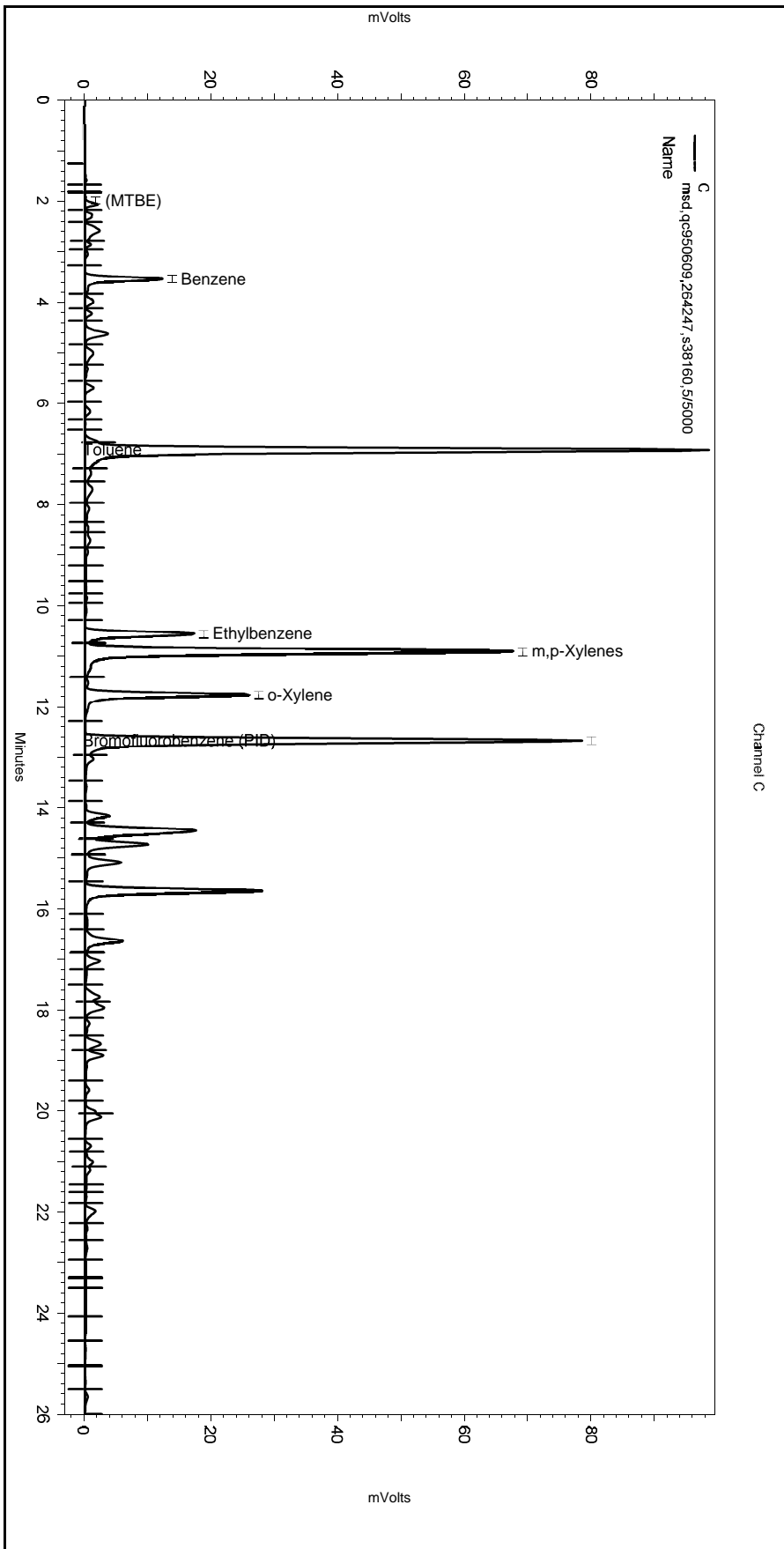
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-017_7D1C.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence12018\278.seq
 Sample Name: msd,qc950609,264247,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-017
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 10:27:29 PM
 Analysis Date: 10/5/2018 10:56:12 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-017_7D1C.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 303845 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 328359254001
 Units : ng

Name : TVH_249
 Date : 07-SEP-2018 04:20
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	249_020	328359254020	TVH_14	07-SEP-2018 04:20	S38083 (1000X), S37840 (5000X)
L2	249_021	328359254021	TVH_15	07-SEP-2018 04:58	S38082 (1000X), S37840 (5000X)
L3	249_022	328359254022	TVH_16	07-SEP-2018 05:36	S38081 (1000X), S37840 (5000X)
L4	249_023	328359254023	TVH_17	07-SEP-2018 06:15	S38080 (2000X), S37840 (5000X)
L5	249_024	328359254024	TVH_18	07-SEP-2018 06:53	S38080 (1000X), S37840 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	2526.6	2192.9	2128.6	2211.8	2121.0	AVRG		4.47E-4		2236.2	7	0.995	20	
Bromofluorobenzene (FID)	A	2087.3	2008.6	1770.6	2075.1	1975.4	AVRG		5.04E-4		1983.4	6	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	13	2500.0	-2	10000	-5	25000	-1	50000	-5
Bromofluorobenzene (FID)	A	900.00	5	900.00	1	900.00	-11	900.00	5	900.00	0

Analyst: KSM

Date: 09/07/18

Reviewer: TKM

Date: 09/07/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 328359254001

Name : TVH_249
Cal Date : 07-SEP-2018

ICV 328359254026 (249_026 07-SEP-2018) stds: S38065 (1000X), S37840 (5000X)

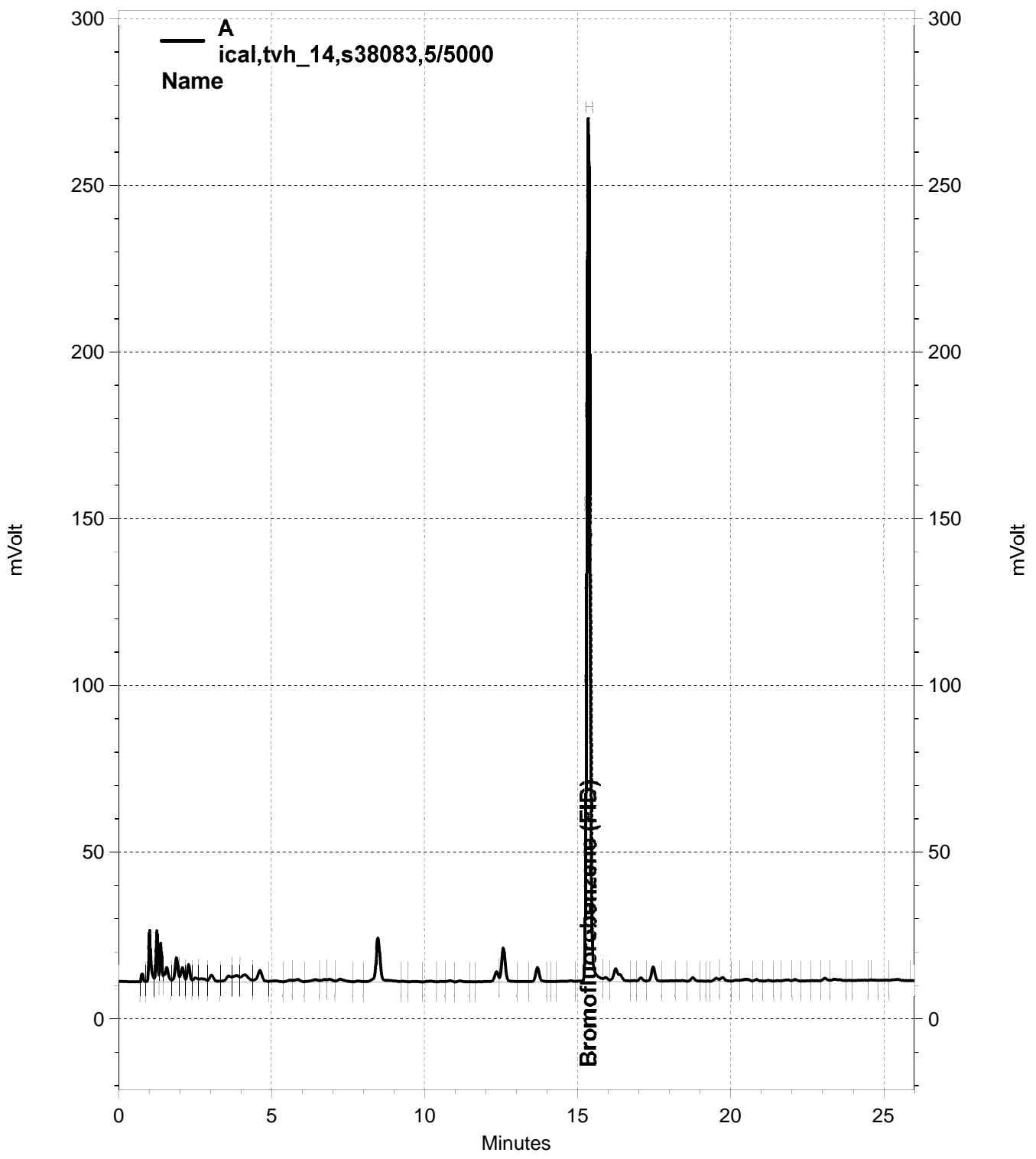
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	9681	ng	-3	15	

Analyst: KSM

Date: 09/07/18

Reviewer: TKM

Date: 09/07/18



A
ical,tvh_14,s38083,5/5000
Name

\\Lims\gdrive\ezchrom\Projects\GC07\Data\249-020, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_14,s38083,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-020
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 4:20:23 AM
 Analysis Date: 9/7/2018 12:27:51 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	1878566	900.000 CAL
GAS:6-10			658737	250.000 CAL
GAS:6-12			795507	250.000 CAL
GAS:7-12			631640	250.000 CAL
JP4:7-12			631640	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.150		0.000 BDL
Benzene	4.633	4.650	90758	0.000 CAL
Toluene	8.483	8.500	503241	0.000 CAL
Ethylbenzene	12.350	12.367	92376	0.000 CAL
m,p-Xylenes	12.567	12.583	389183	0.000 CAL
o-Xylene	13.683	13.700	138263	0.000 CAL
Bromofluorobenzene (PID)	15.350	15.367	16698081	0.000 CAL

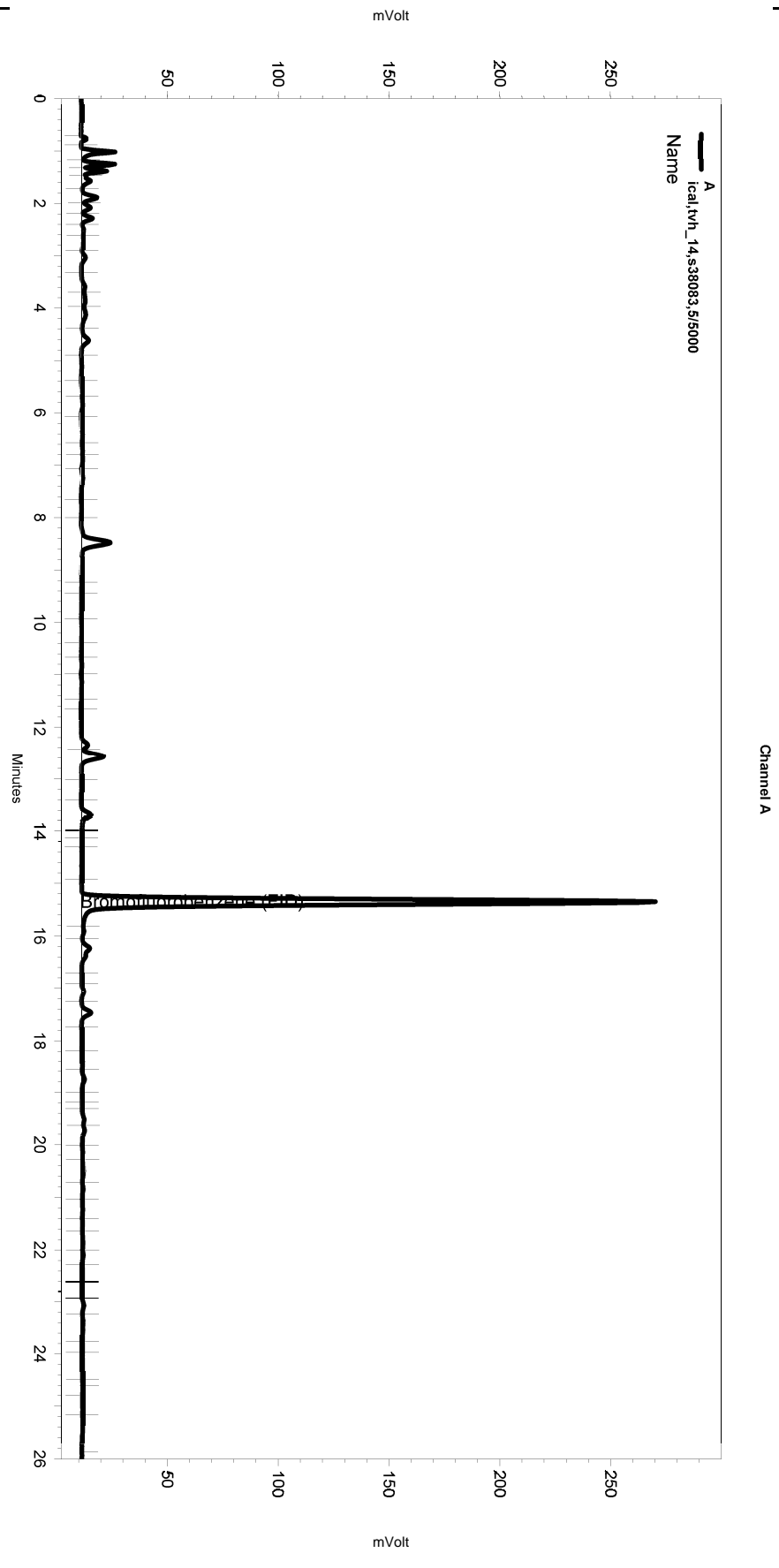
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.017	1.983	1660	0.000 CAL
Benzene	3.500	3.500	4039	0.000 CAL
Toluene	6.916	6.916	29524	0.000 CAL
Ethylbenzene	10.583	10.566	4238	0.000 CAL
m,p-Xylenes	10.916	10.916	21628	0.000 CAL
o-Xylene	11.766	11.766	7794	0.000 CAL
Bromofluorobenzene (PID)	12.666	12.666	1073701	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_14,s38083,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-020
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 4:20:23 AM
 Analysis Date: 9/7/2018 12:27:51 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

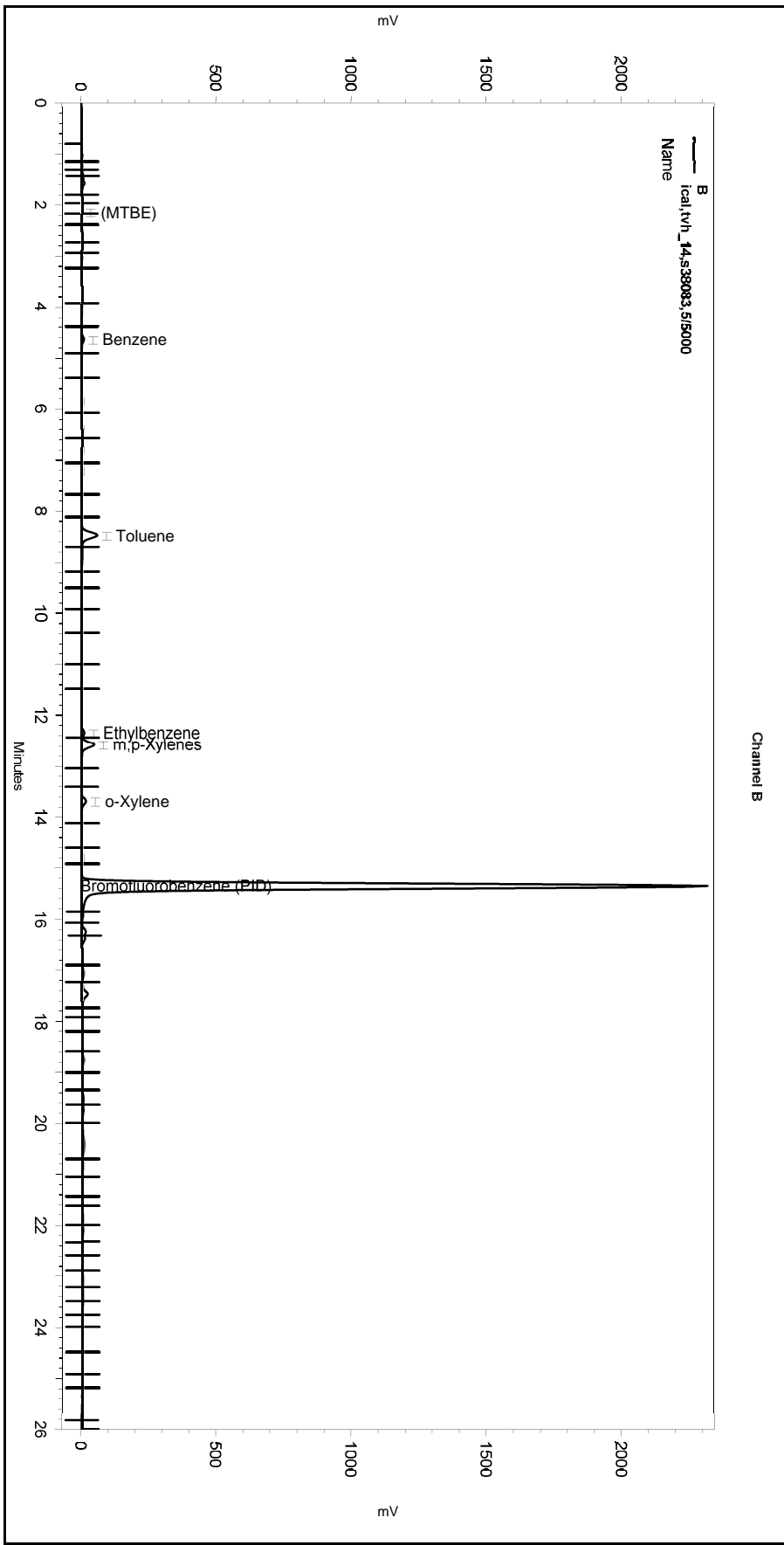
Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_14,s38083,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-020
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 4:20:23 AM
 Analysis Date: 9/7/2018 12:27:51 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

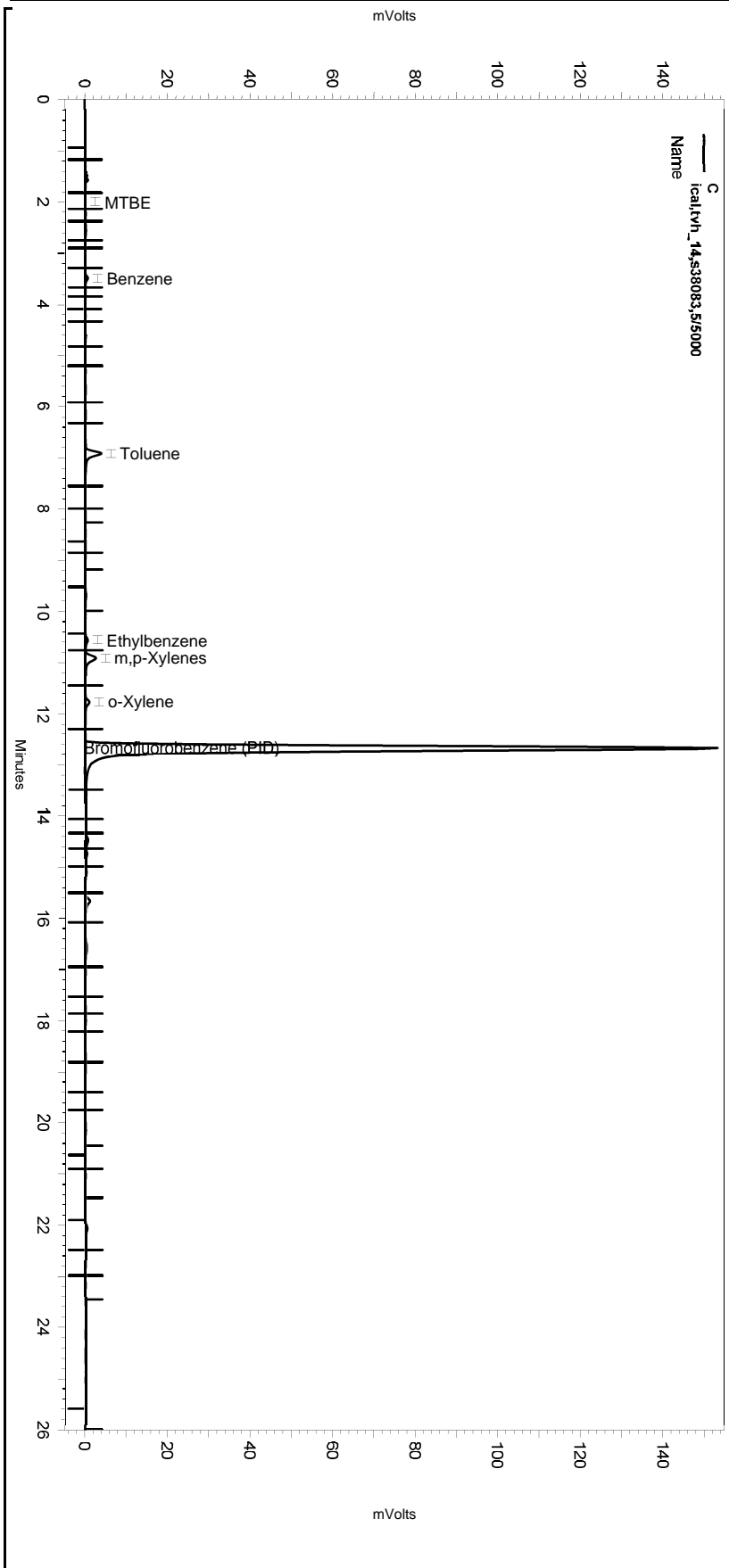
=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_14,s38083,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-020
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX249.met

Software Version 3.1.7
 Run Date: 9/7/2018 4:20:23 AM
 Analysis Date: 9/7/2018 12:27:51 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < C >

No items selected for this section

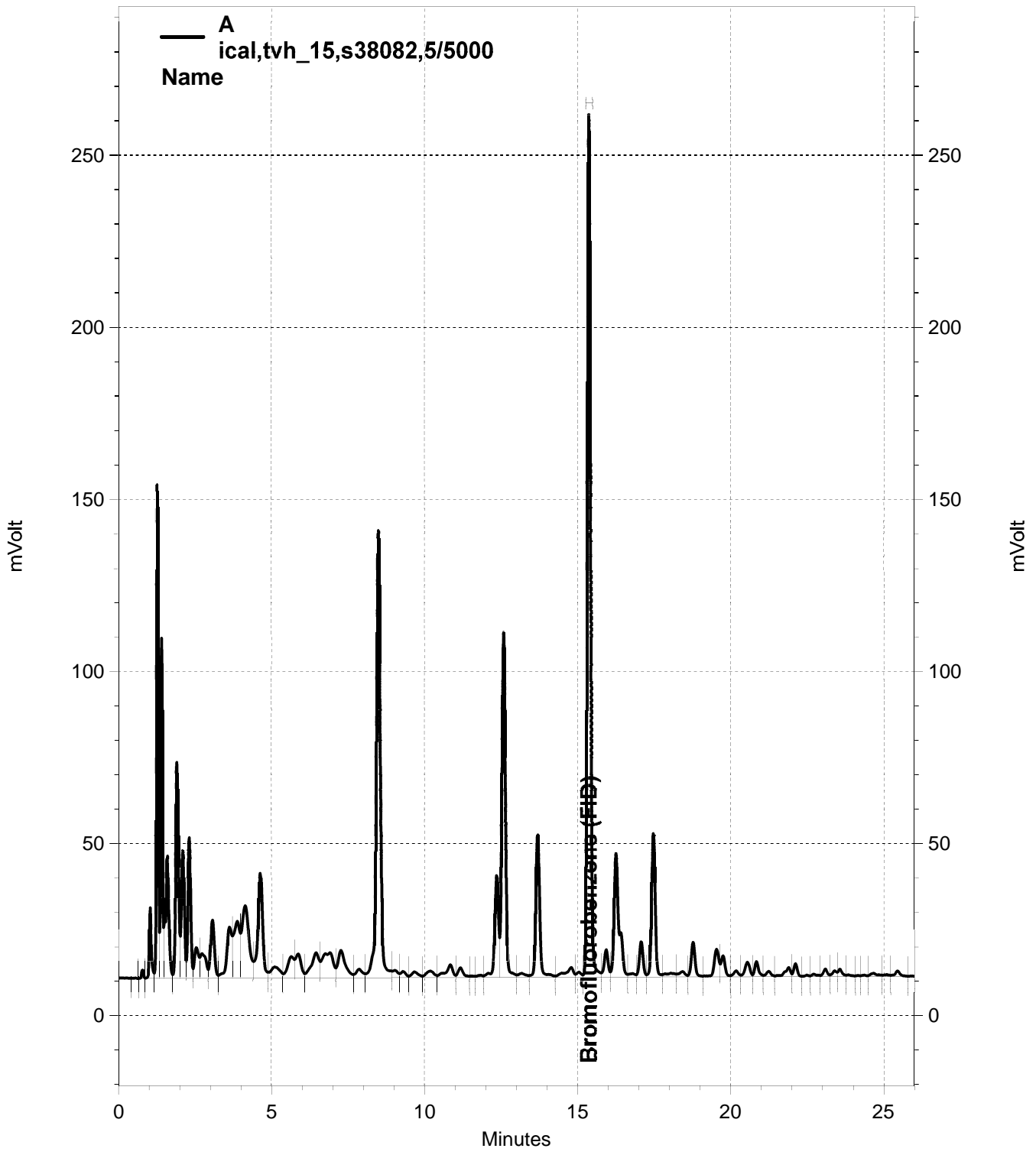
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— A
 ical,tvh_15,s38082,5/5000
 Name

— \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-021, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_15,s38082,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-021
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 4:58:45 AM
 Analysis Date: 9/7/2018 12:27:56 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1807766	900.000 CAL
GAS:6-10			5867614	2500.000 CAL
GAS:6-12			6815821	2500.000 CAL
GAS:7-12			5482197	2500.000 CAL
JP4:7-12			5482197	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.150		0.000 BDL
Benzene	4.650	4.650	820488	0.000 CAL
Toluene	8.500	8.500	5067342	0.000 CAL
Ethylbenzene	12.350	12.367	911044	0.000 CAL
m,p-Xylenes	12.583	12.583	3835325	0.000 CAL
o-Xylene	13.700	13.700	1405351	0.000 CAL
Bromofluorobenzene (PID)	15.367	15.367	16251989	0.000 CAL

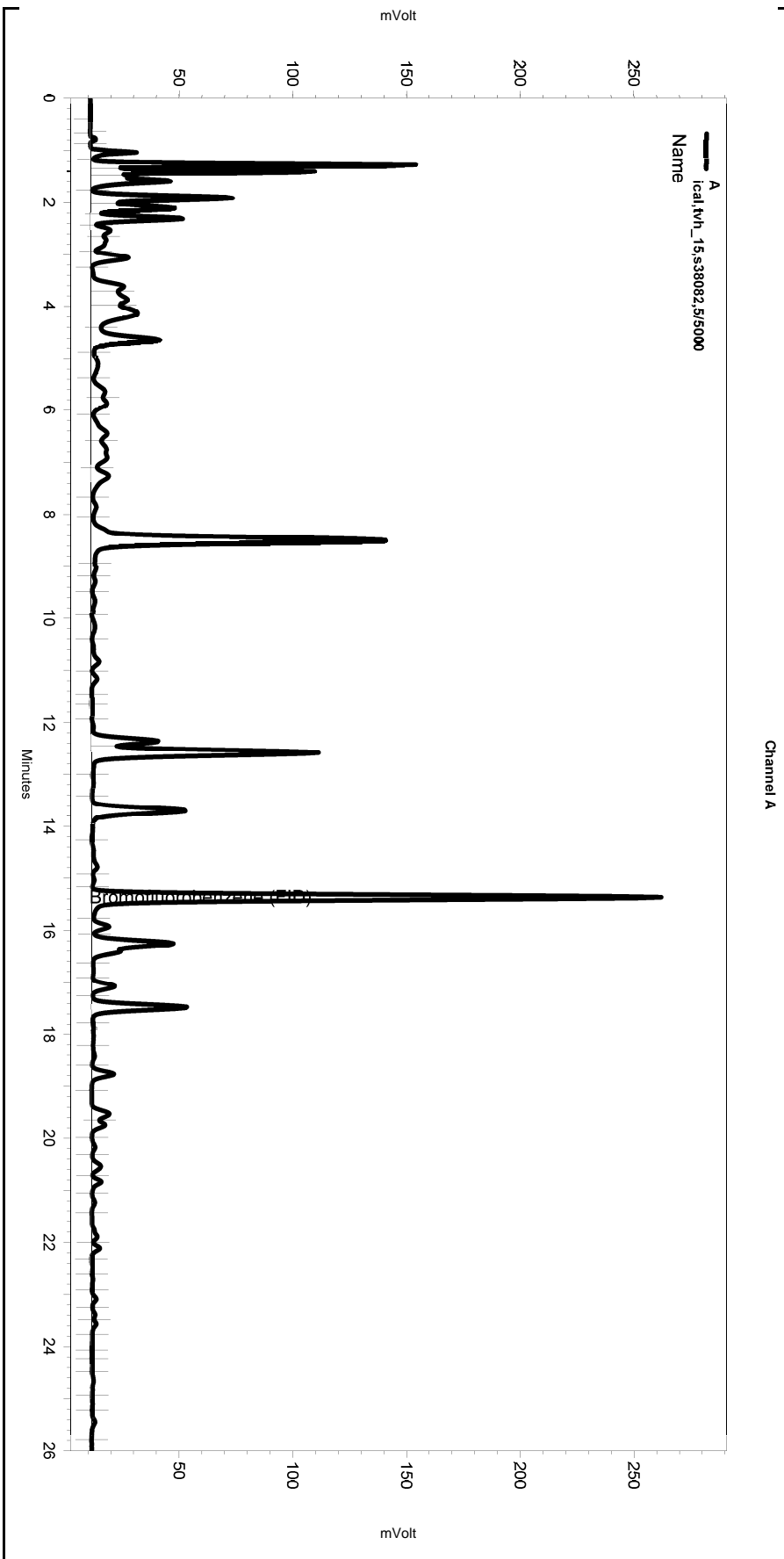
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	1.983	11197	0.000 CAL
Benzene	3.500	3.500	45061	0.000 CAL
Toluene	6.916	6.916	331453	0.000 CAL
Ethylbenzene	10.566	10.566	53425	0.000 CAL
m,p-Xylenes	10.899	10.916	245720	0.000 CAL
o-Xylene	11.766	11.766	87851	0.000 CAL
Bromofluorobenzene (PID)	12.666	12.666	1045833	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_15,s38082,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-021
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 4:58:45 AM
 Analysis Date: 9/7/2018 12:27:56 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

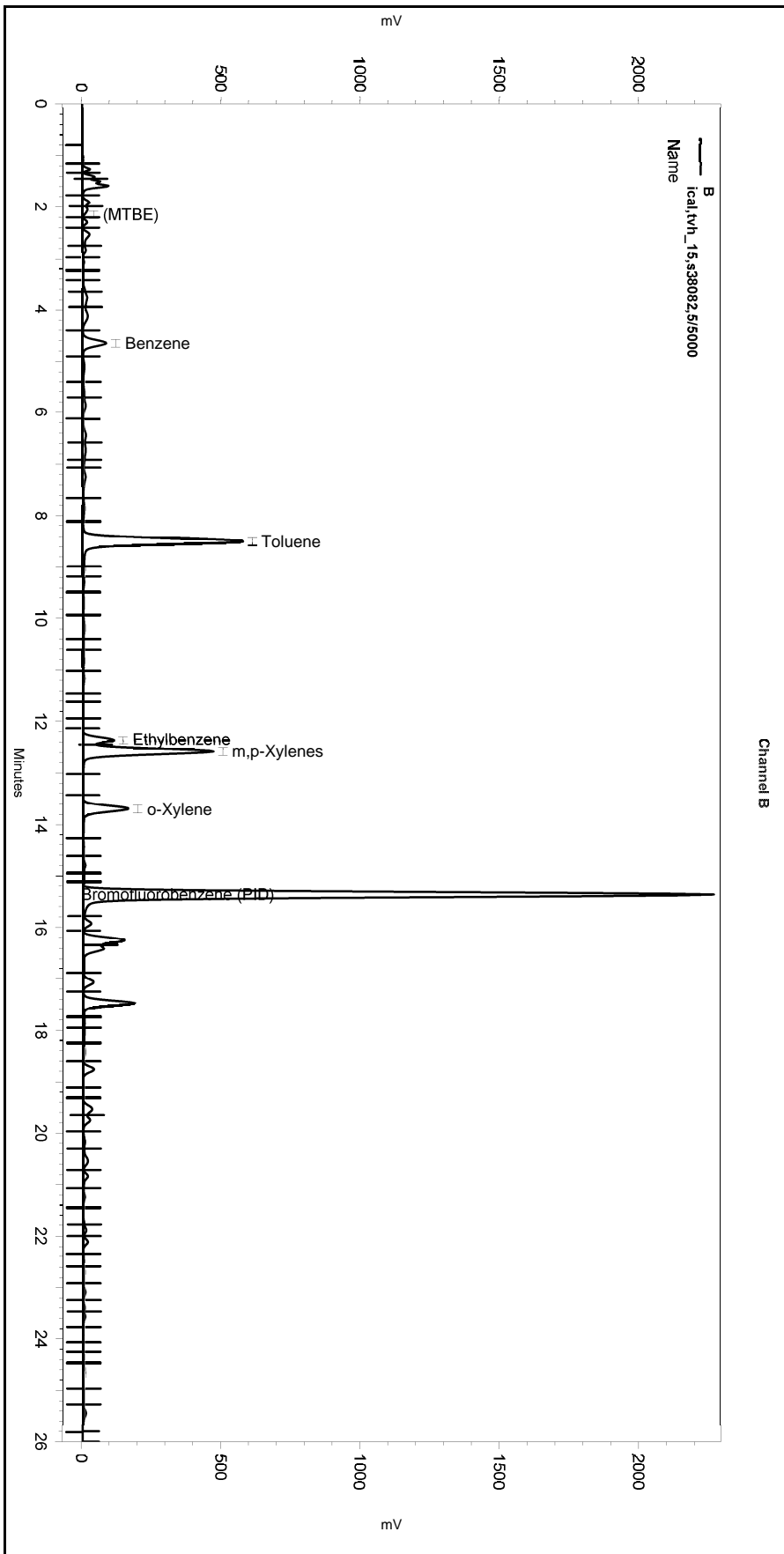
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_15,s38082,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-021
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 4:58:45 AM
 Analysis Date: 9/7/2018 12:27:56 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

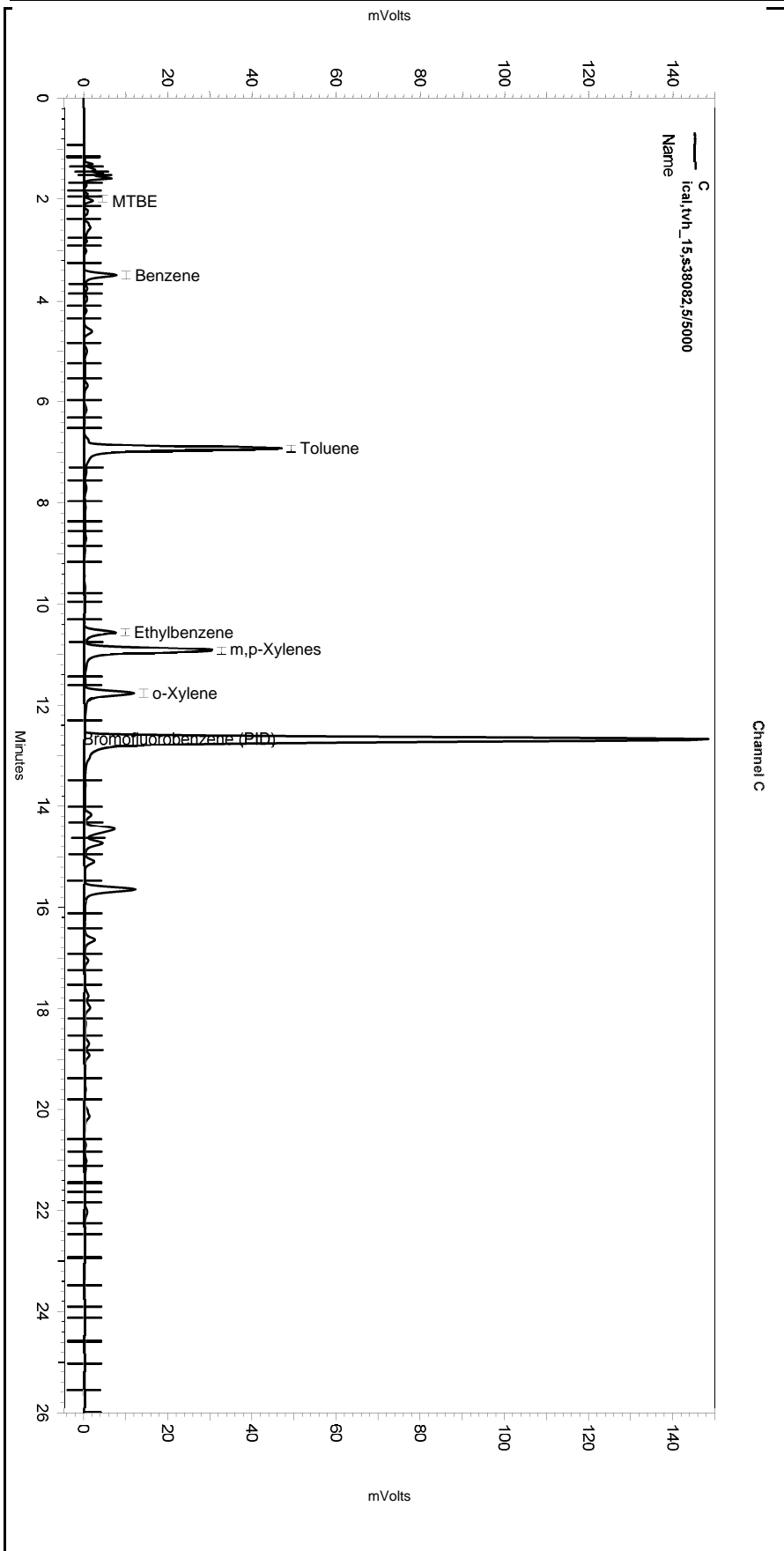
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_15,s38082,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-021
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX249.met

Software Version 3.1.7
 Run Date: 9/7/2018 4:58:45 AM
 Analysis Date: 9/7/2018 12:27:56 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

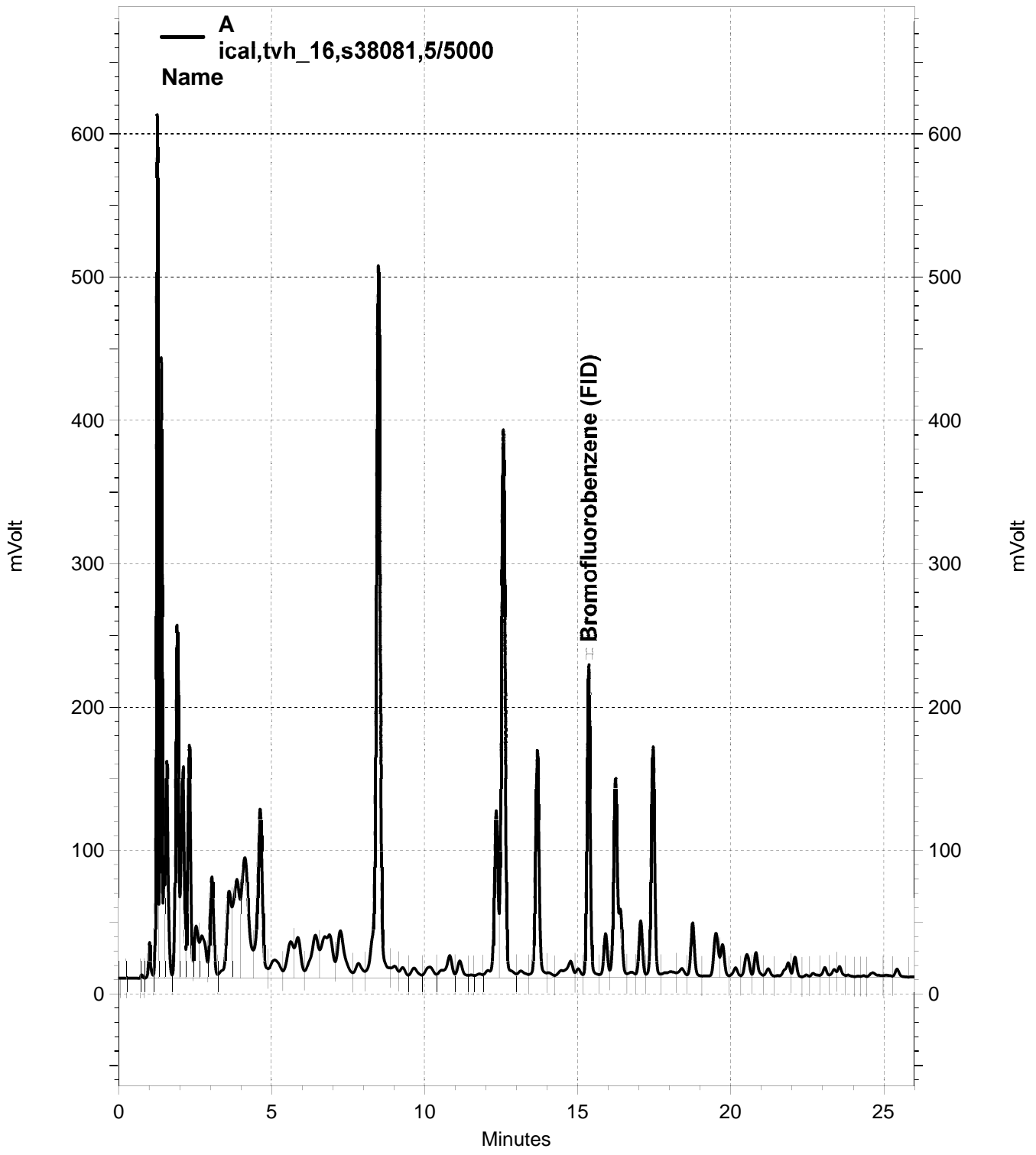
=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-022, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
Sample Name: ical,tvh_16,s38081,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-022
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
Run Date: 9/7/2018 5:36:54 AM
Analysis Date: 9/7/2018 12:28:02 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1593548	900.000 CAL
GAS:6-10			23172620	10000.000 CAL
GAS:6-12			26756790	10000.000 CAL
GAS:7-12			21285642	10000.000 CAL
JP4:7-12			21285642	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.150		0.000 BDL
Benzene	4.650	4.650	3236292	0.000 CAL
Toluene	8.483	8.500	19553211	0.000 CAL
Ethylbenzene	12.350	12.367	3552930	0.000 CAL
m,p-Xylenes	12.583	12.583	15091525	0.000 CAL
o-Xylene	13.683	13.700	5399301	0.000 CAL
Bromofluorobenzene (PID)	15.367	15.367	14405343	0.000 CAL

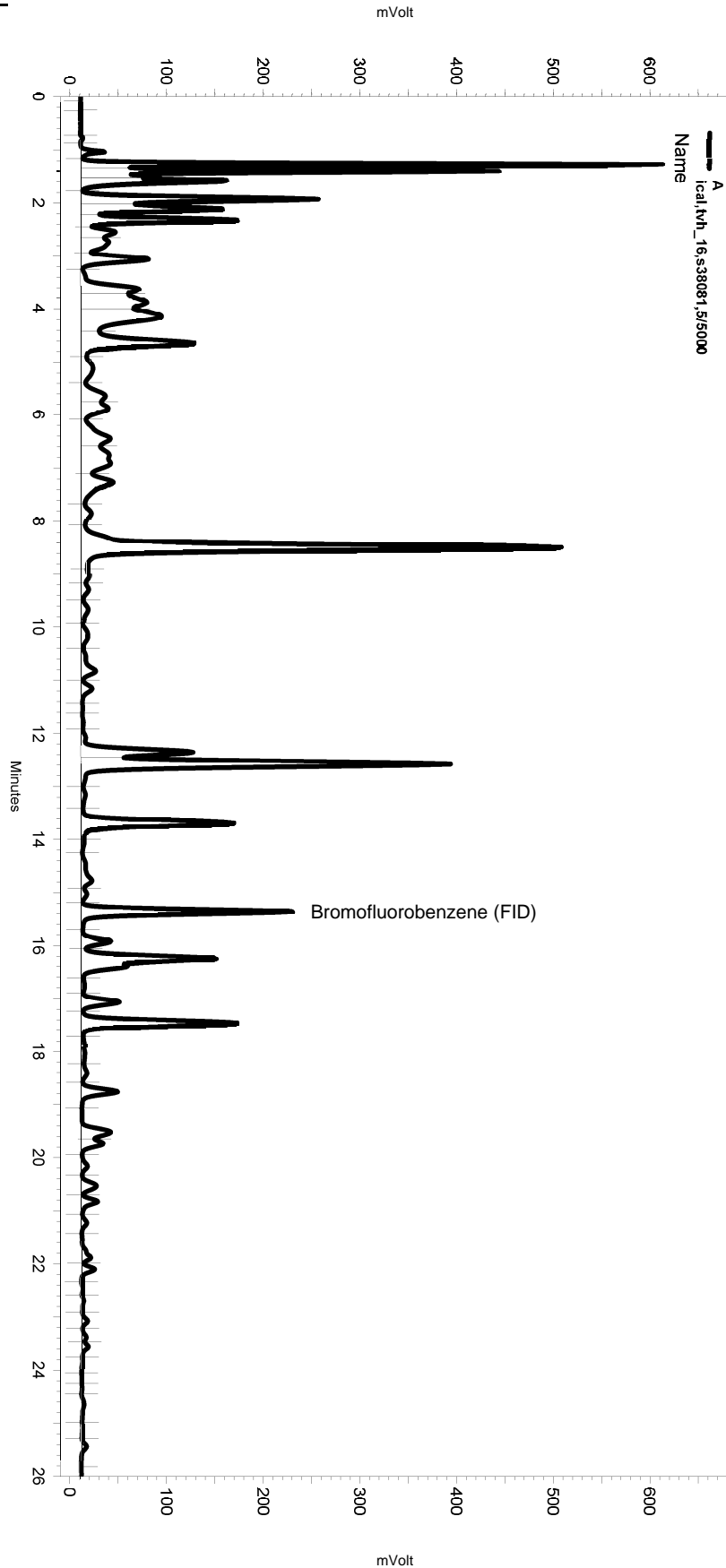
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	1.983	50276	0.000 CAL
Benzene	3.516	3.500	189786	0.000 CAL
Toluene	6.916	6.916	1281578	0.000 CAL
Ethylbenzene	10.566	10.566	229114	0.000 CAL
m,p-Xylenes	10.899	10.916	963271	0.000 CAL
o-Xylene	11.766	11.766	351046	0.000 CAL
Bromofluorobenzene (PID)	12.666	12.666	905071	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_16,s38081,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-022
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 5:36:54 AM
 Analysis Date: 9/7/2018 12:28:02 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

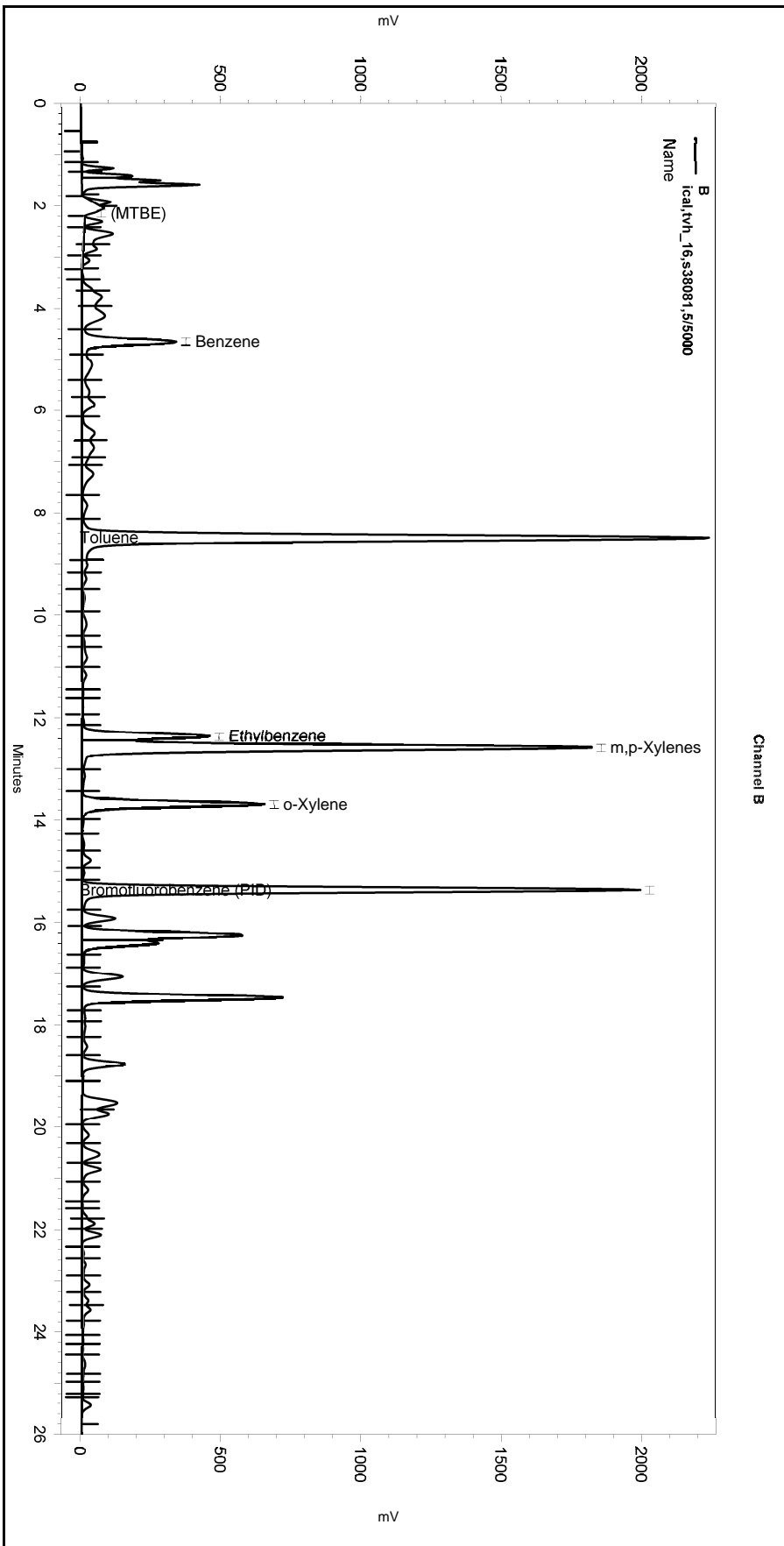
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_16,s38081,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-022
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 5:36:54 AM
 Analysis Date: 9/7/2018 12:28:02 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

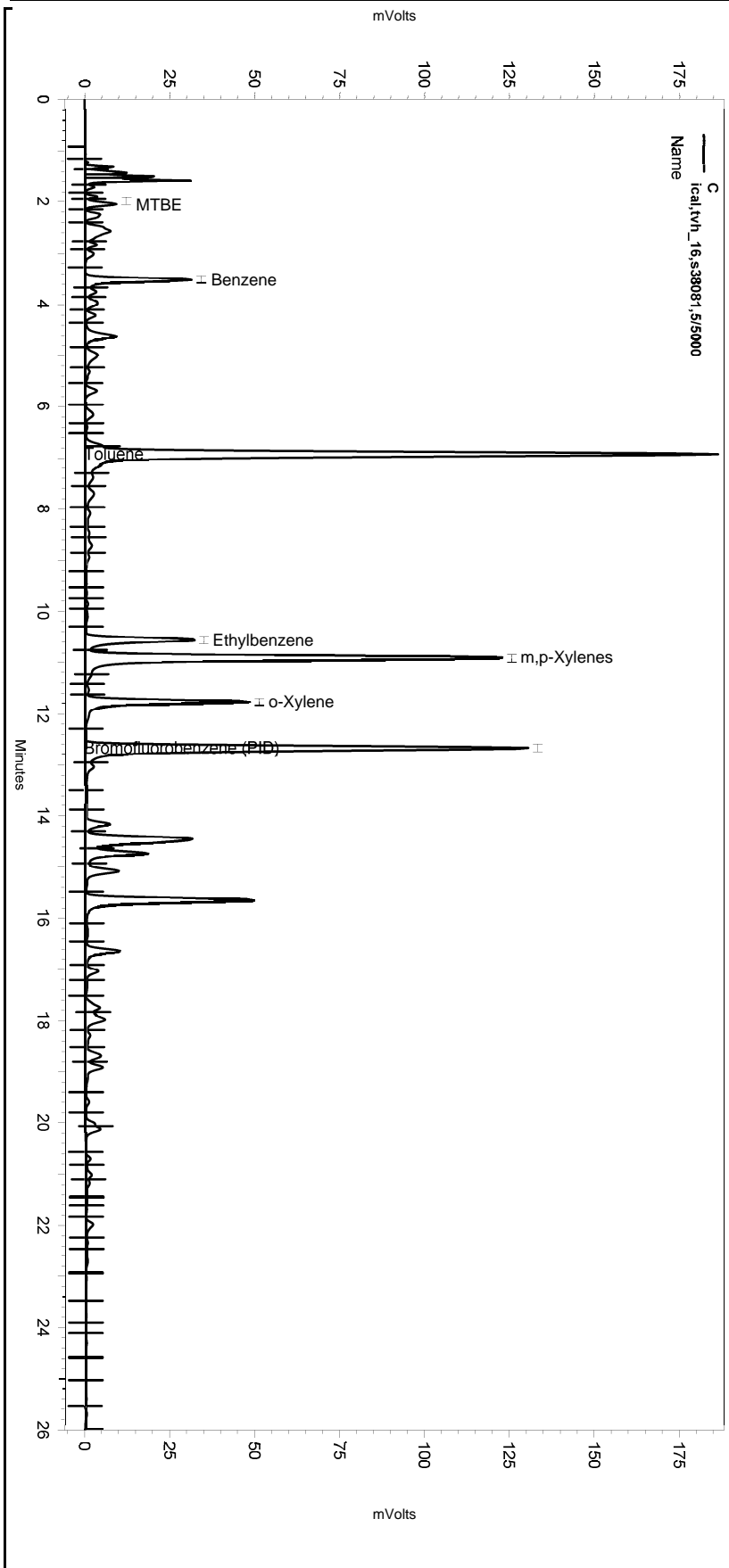
=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_16,s38081,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-022
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 5:36:54 AM
 Analysis Date: 9/7/2018 12:28:02 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < C >

No items selected for this section

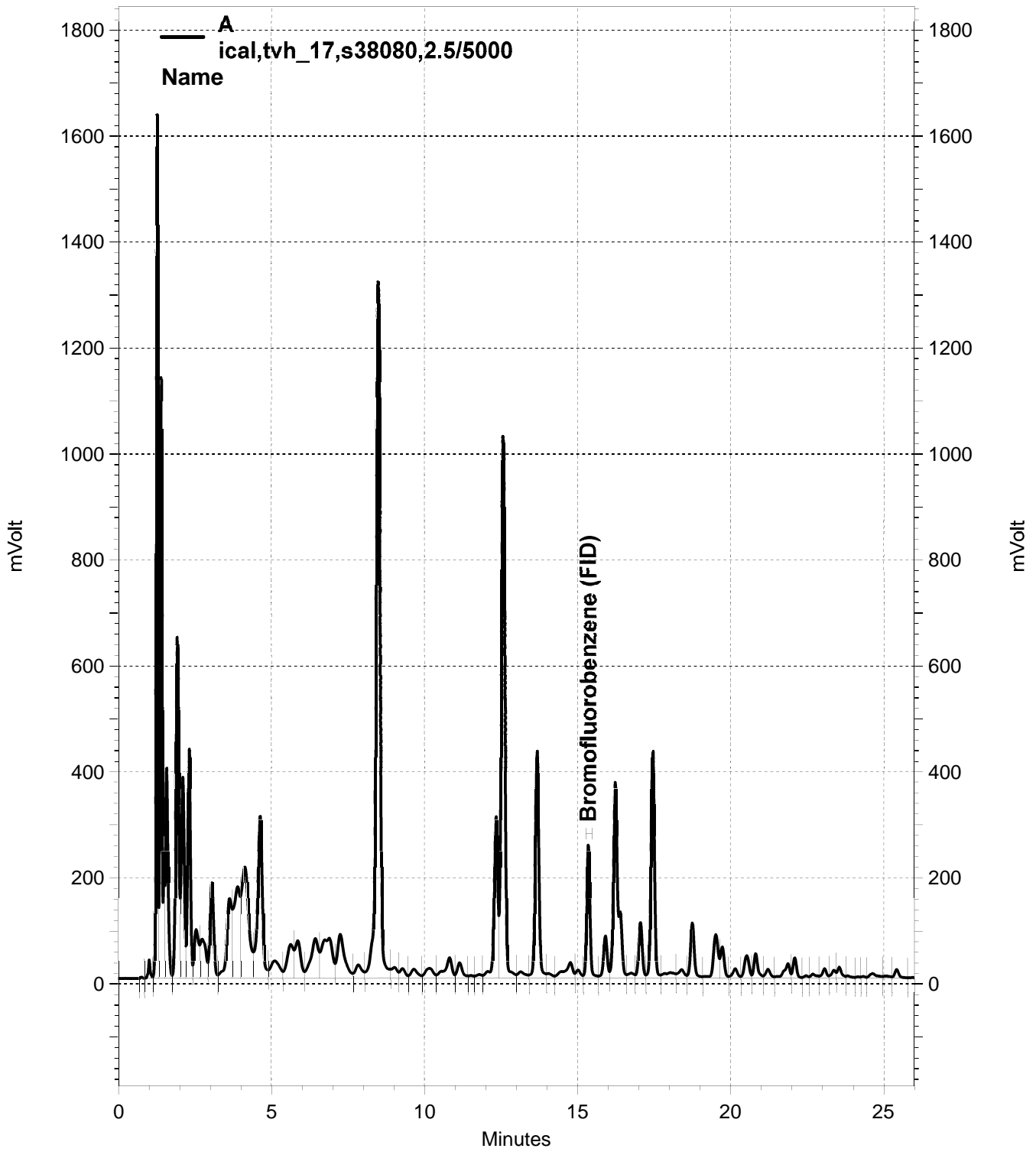
=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-023, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_17,s38080,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-023
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 6:15:05 AM
 Analysis Date: 9/7/2018 12:28:10 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	1867620	900.000 CAL
GAS:6-10			59765276	25000.000 CAL
GAS:6-12			69159184	25000.000 CAL
GAS:7-12			55293928	25000.000 CAL
JP4:7-12			55293928	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.150		0.000 BDL
Benzene	4.650	4.650	8655672	0.000 CAL
Toluene	8.483	8.500	51603401	0.000 CAL
Ethylbenzene	12.350	12.367	9625911	0.000 CAL
m,p-Xylenes	12.567	12.583	39314360	0.000 CAL
o-Xylene	13.683	13.700	14546933	0.000 CAL
Bromofluorobenzene (PID)	15.350	15.367	16691254	0.000 CAL

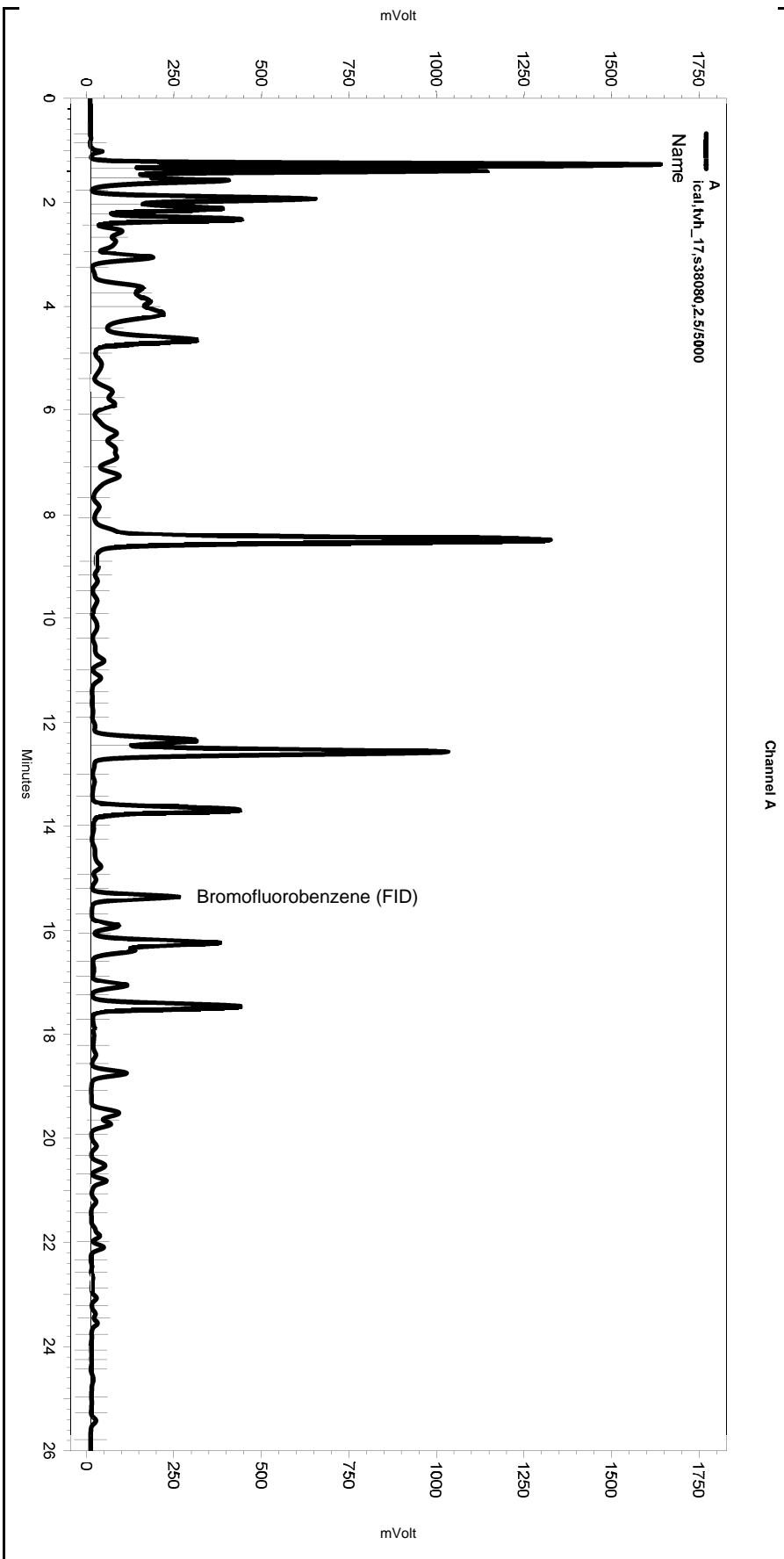
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene	3.516	3.500	526570	0.000 CAL
Toluene	6.916	6.916	3302988	0.000 CAL
Ethylbenzene	10.566	10.566	621323	0.000 CAL
m,p-Xylenes	10.916	10.916	2496563	0.000 CAL
o-Xylene	11.766	11.766	940469	0.000 CAL
Bromofluorobenzene (PID)	12.666	12.666	1044773	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_17,s38080,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-023
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbx249.met

Software Version 3.1.7
 Run Date: 9/7/2018 6:15:05 AM
 Analysis Date: 9/7/2018 12:28:10 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

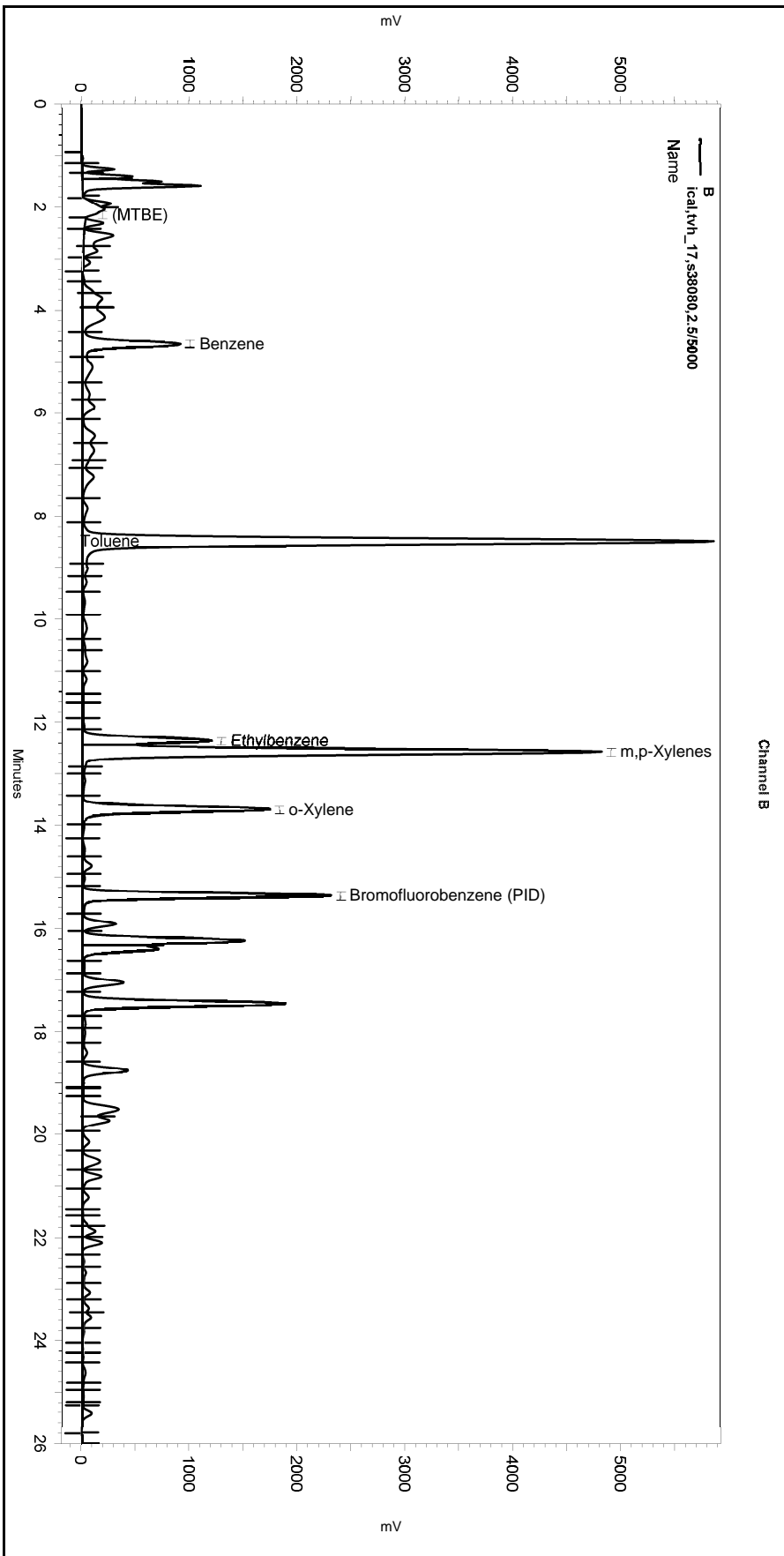
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_17,s38080,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-023
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX249.met

Software Version 3.1.7
 Run Date: 9/7/2018 6:15:05 AM
 Analysis Date: 9/7/2018 12:28:10 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

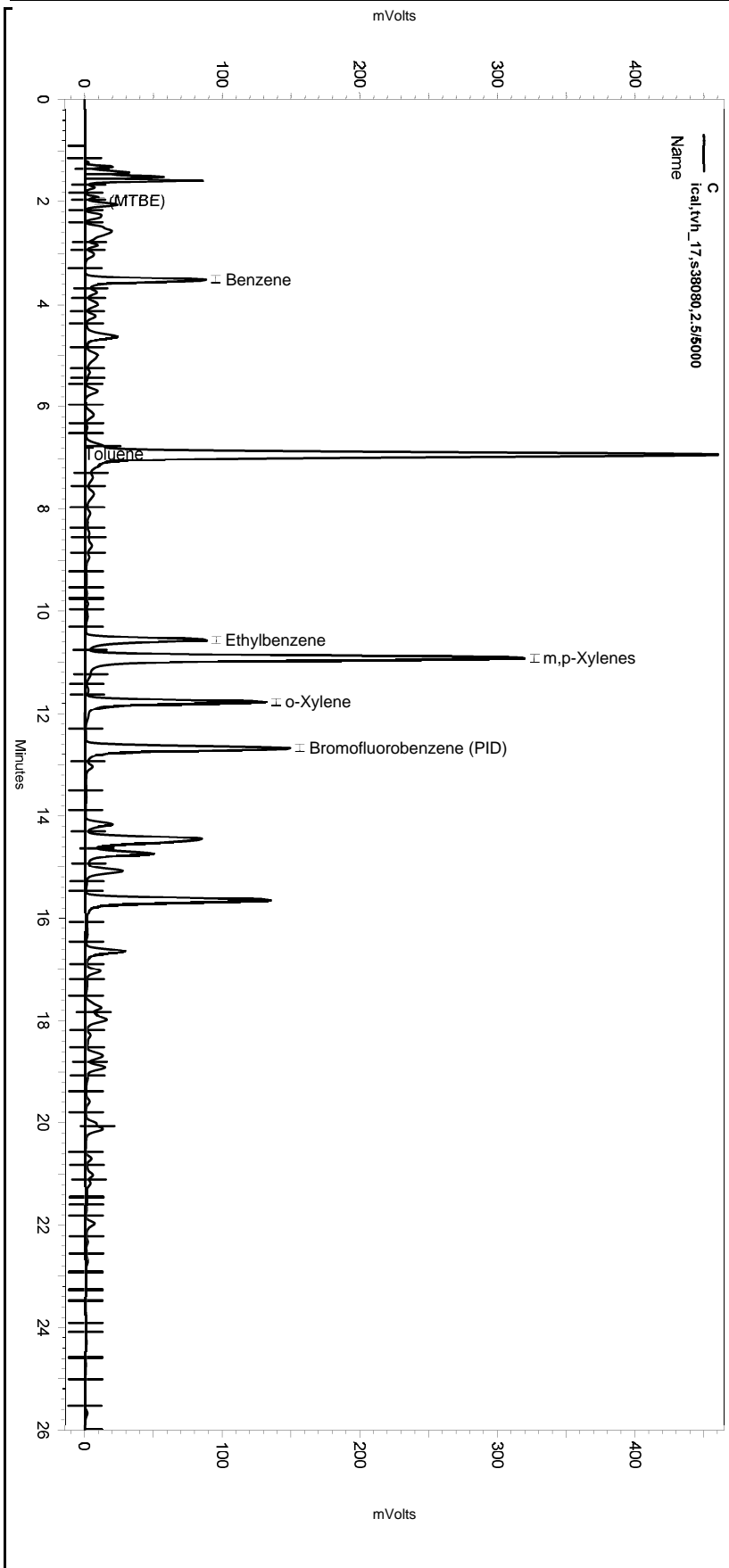
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_17,s38080,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-023
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 6:15:05 AM
 Analysis Date: 9/7/2018 12:28:10 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

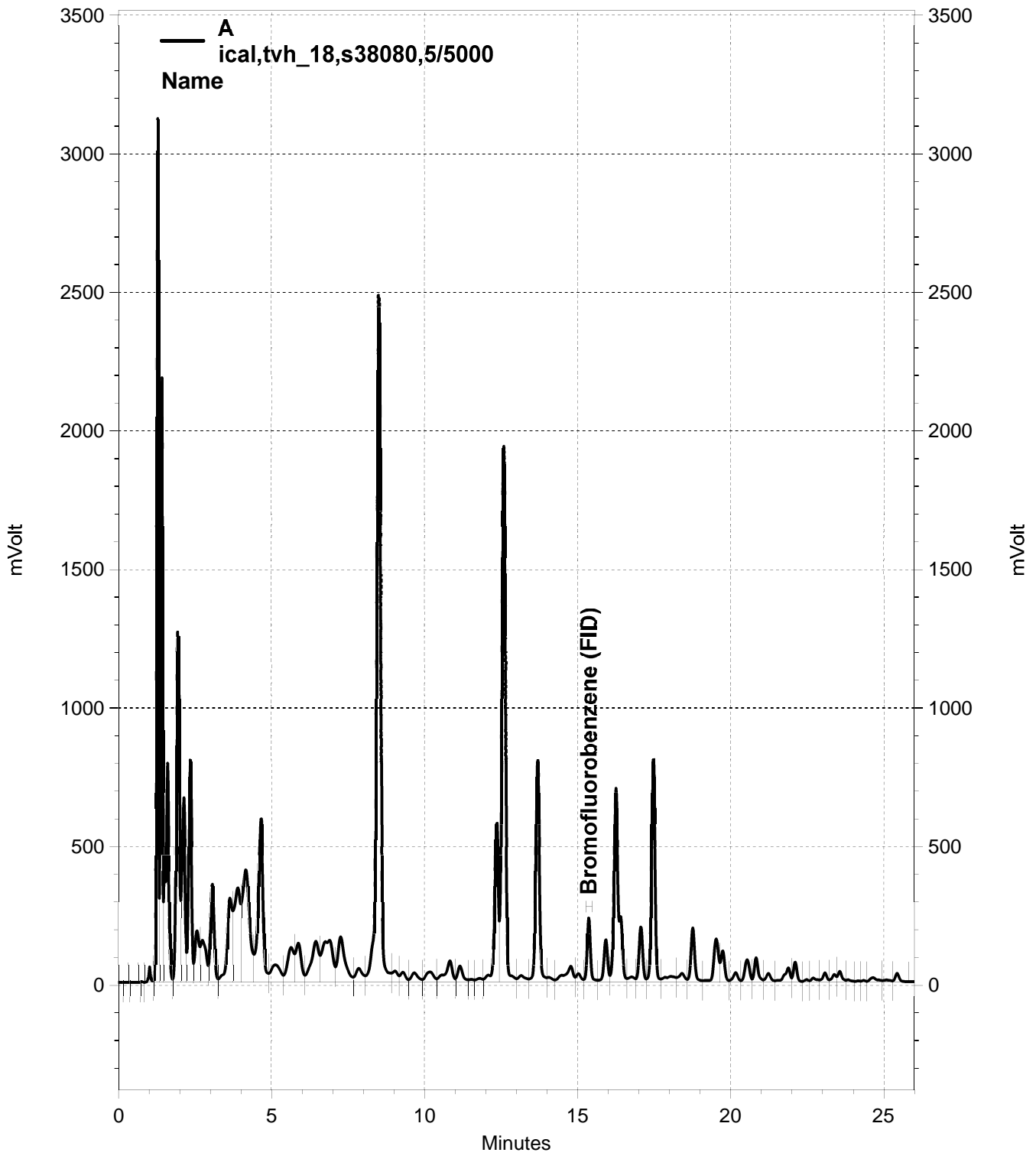
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\249-024, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
Sample Name: ical,tvh_18,s38080,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-024
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
Run Date: 9/7/2018 6:53:28 AM
Analysis Date: 9/7/2018 12:28:15 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1777880	900.000 CAL
GAS:6-10			115665232	50000.000 CAL
GAS:6-12			133511112	50000.000 CAL
GAS:7-12			106051496	50000.000 CAL
JP4:7-12			106051496	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.150		0.000 BDL
Benzene	4.667	4.650	16476468	0.000 CAL
Toluene	8.500	8.500	95859200	0.000 CAL
Ethylbenzene	12.367	12.367	18157145	0.000 CAL
m,p-Xylenes	12.583	12.583	72926669	0.000 CAL
o-Xylene	13.700	13.700	26904965	0.000 CAL
Bromofluorobenzene (PID)	15.367	15.367	15208268	0.000 CAL

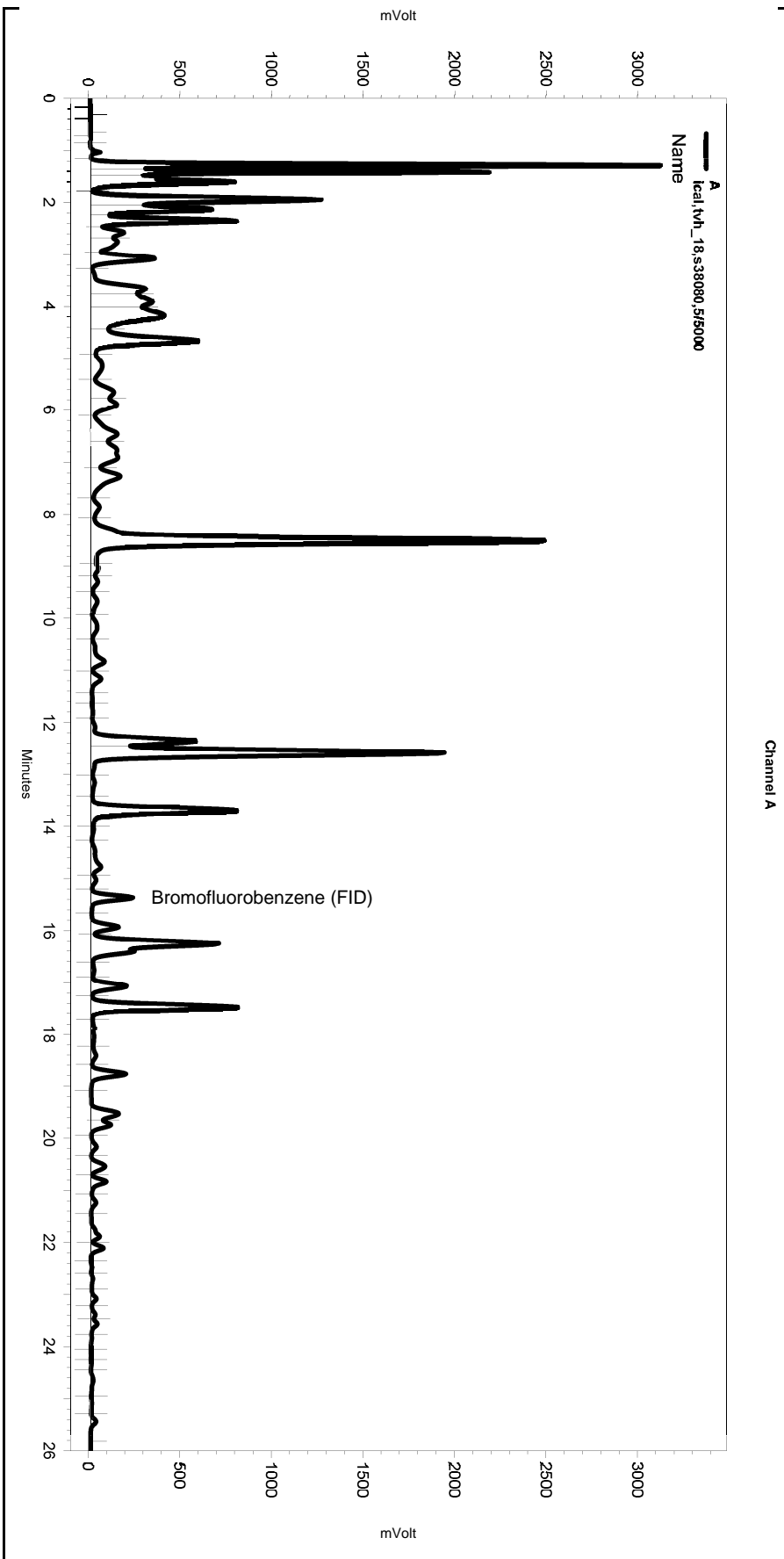
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.917	1.983	78028	0.000 CAL
Benzene	3.533	3.500	1006978	0.000 CAL
Toluene	6.933	6.916	5892866	0.000 CAL
Ethylbenzene	10.566	10.566	1187107	0.000 CAL
m,p-Xylenes	10.916	10.916	4568481	0.000 CAL
o-Xylene	11.766	11.766	1706317	0.000 CAL
Bromofluorobenzene (PID)	12.683	12.666	966049	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_18,s38080,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-024
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 6:53:28 AM
 Analysis Date: 9/7/2018 12:28:15 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

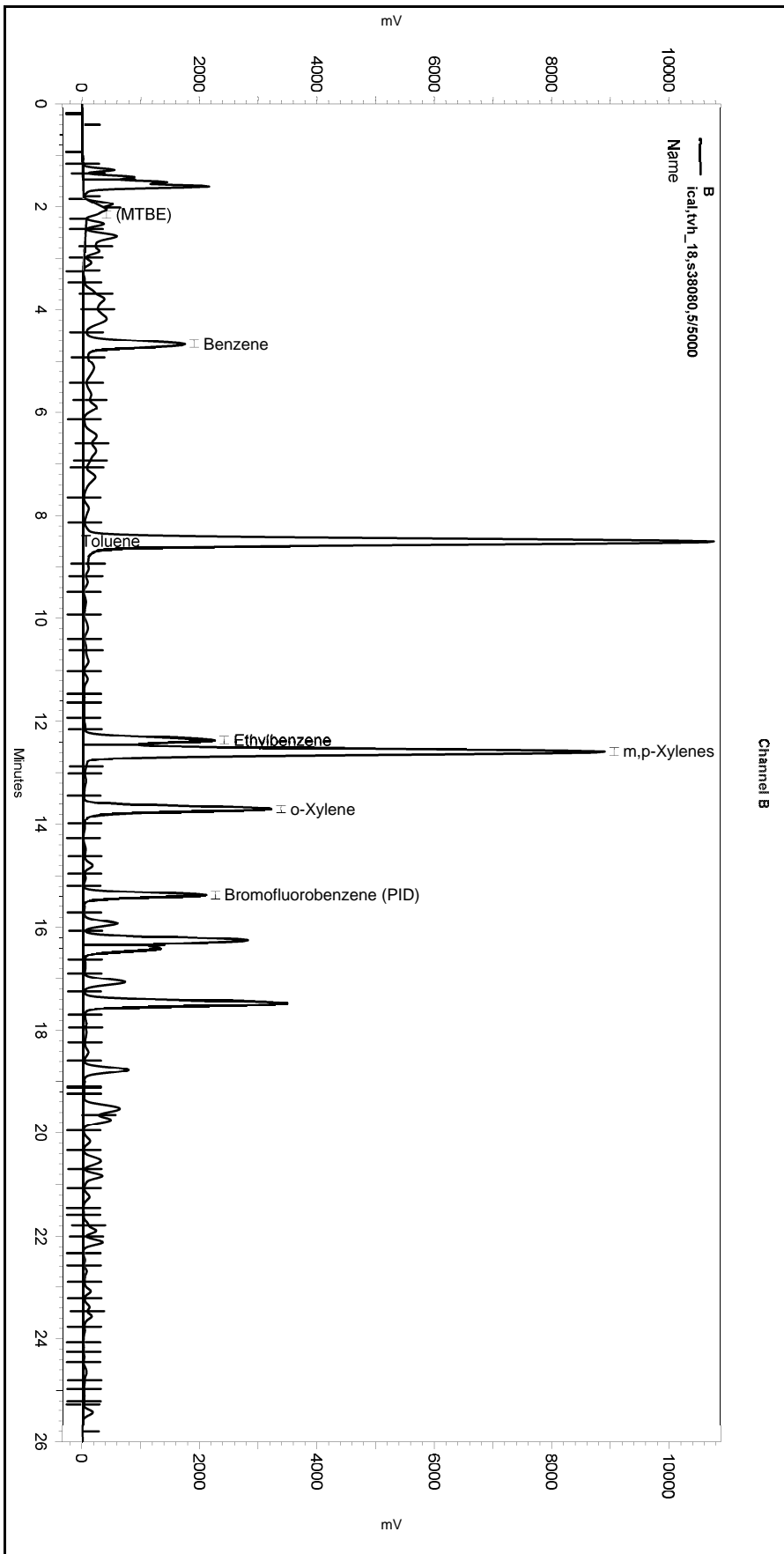
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-024

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_18,s38080,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-024
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX249.met

Software Version 3.1.7
 Run Date: 9/7/2018 6:53:28 AM
 Analysis Date: 9/7/2018 12:28:15 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

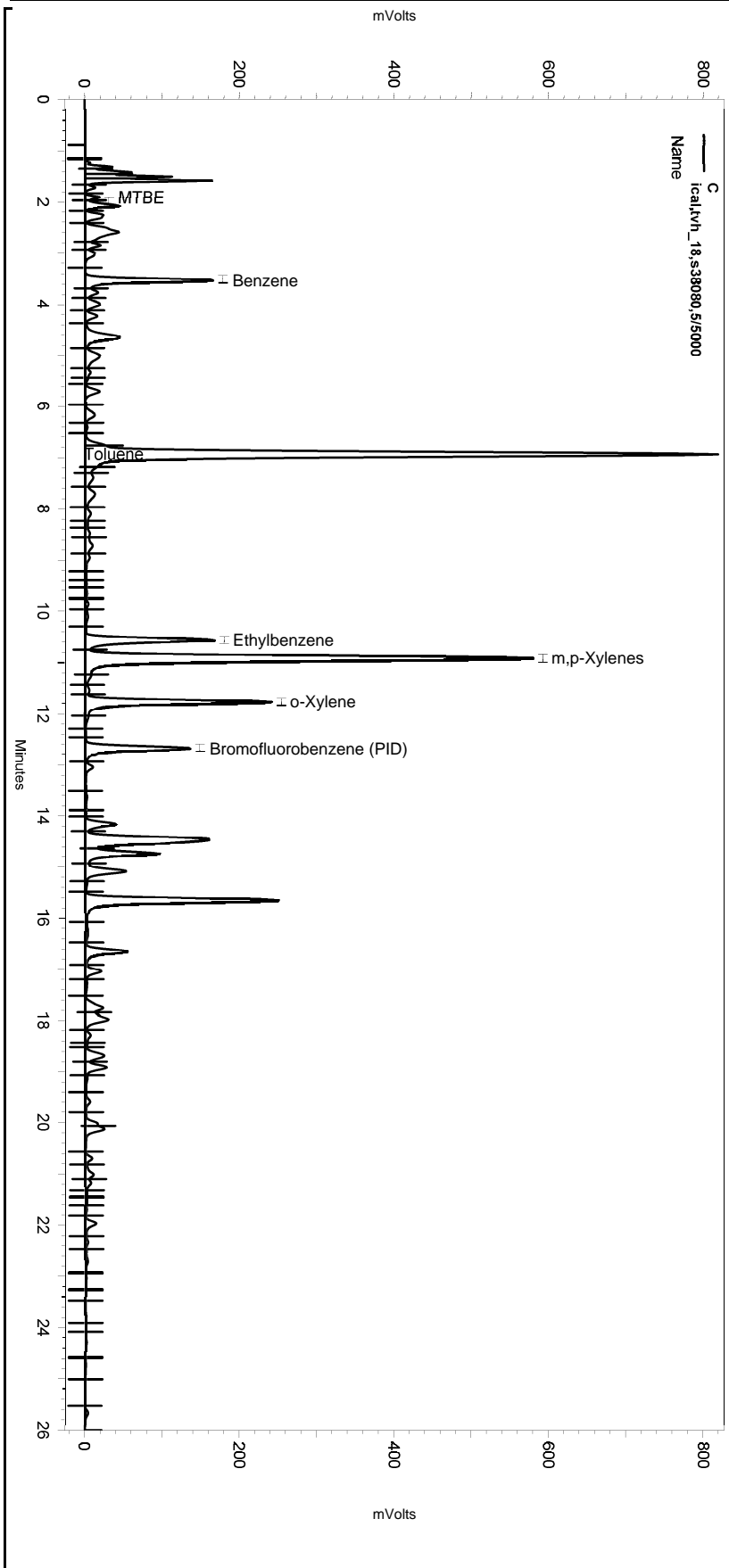
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-024

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: ical,tvh_18,s38080,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-024
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX249.met

Software Version 3.1.7
 Run Date: 9/7/2018 6:53:28 AM
 Analysis Date: 9/7/2018 12:28:15 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

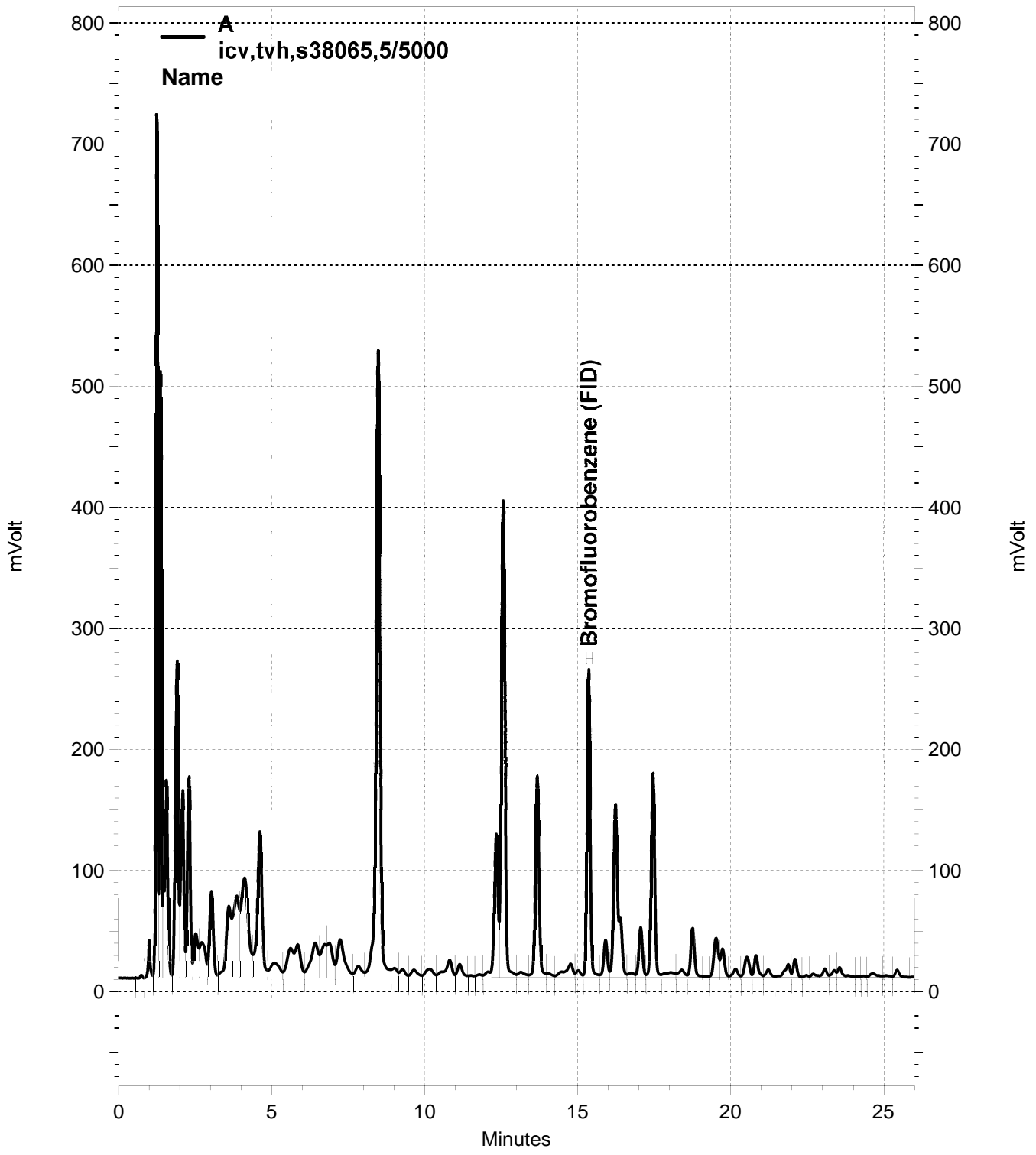
=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-024

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-026, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
Sample Name: icv,tvh,s38065,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-026
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
Run Date: 9/7/2018 8:10:29 AM
Analysis Date: 9/7/2018 12:30:10 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1859804	937.676
GAS:6-10			23365872	9733.207
GAS:6-12			27122474	9672.348
GAS:7-12			21647946	9680.867
JP4:7-12			21647946	5774.018

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.150		0.000 BDL
Benzene	4.650	4.650	3226058	122.935
Toluene	8.483	8.500	19909699	820.411
Ethylbenzene	12.350	12.367	3561029	177.543
m,p-Xylenes	12.567	12.583	15284405	602.447
o-Xylene	13.683	13.700	5579409	266.355
Bromofluorobenzene (PID)	15.367	15.367	16619452	936.164

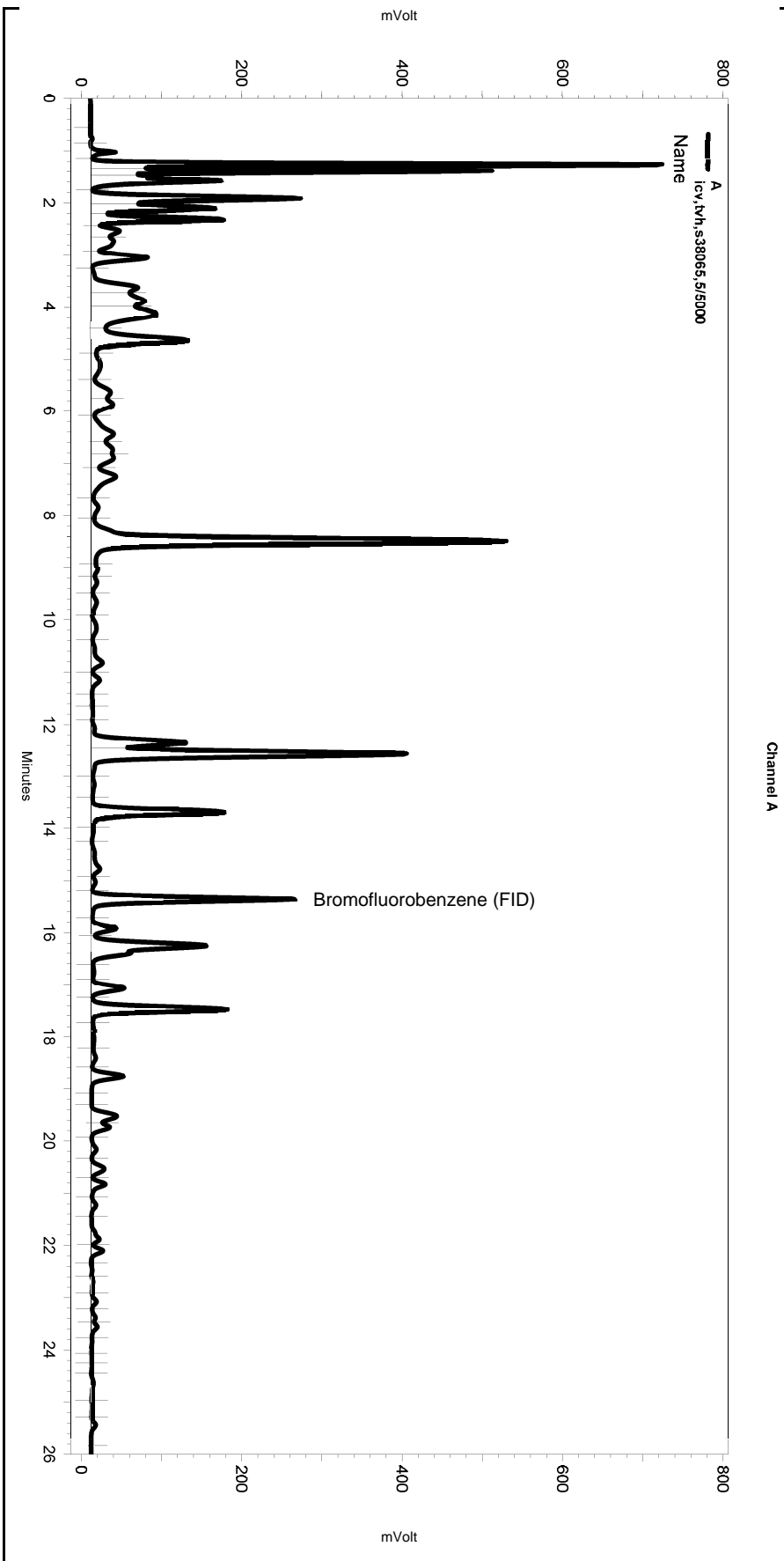
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	1.983	53945	95.731
Benzene	3.516	3.500	200363	127.406
Toluene	6.916	6.916	1337148	943.066
Ethylbenzene	10.566	10.566	235193	200.608
m,p-Xylenes	10.916	10.916	997707	645.932
o-Xylene	11.766	11.766	371092	293.165
Bromofluorobenzene (PID)	12.683	12.666	1064107	923.495

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: icv,tvh,s38065,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-026
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 8:10:29 AM
 Analysis Date: 9/7/2018 12:30:10 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

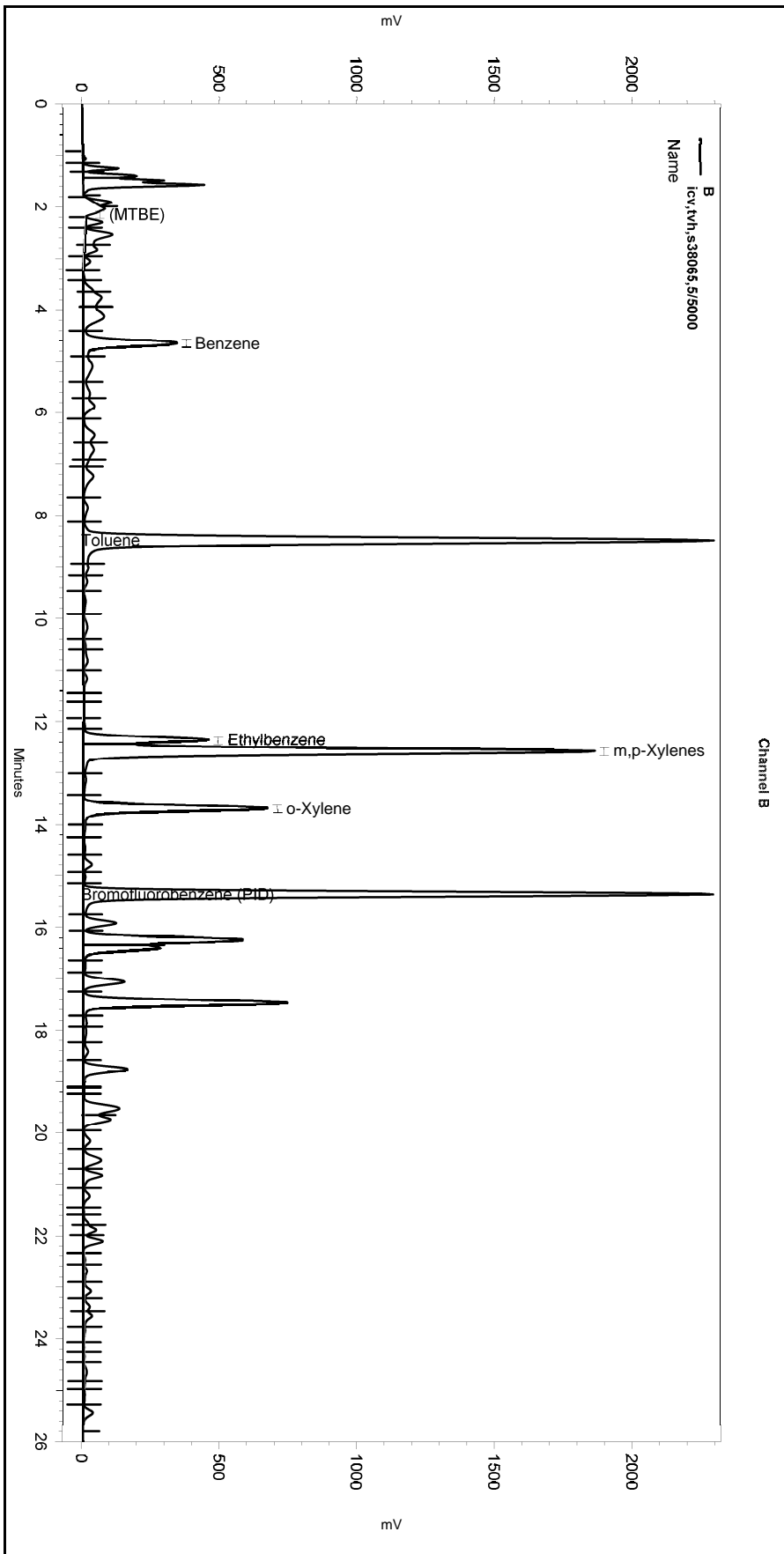
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: icv,tvh,s38065,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-026
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 8:10:29 AM
 Analysis Date: 9/7/2018 12:30:10 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity		0 26	100

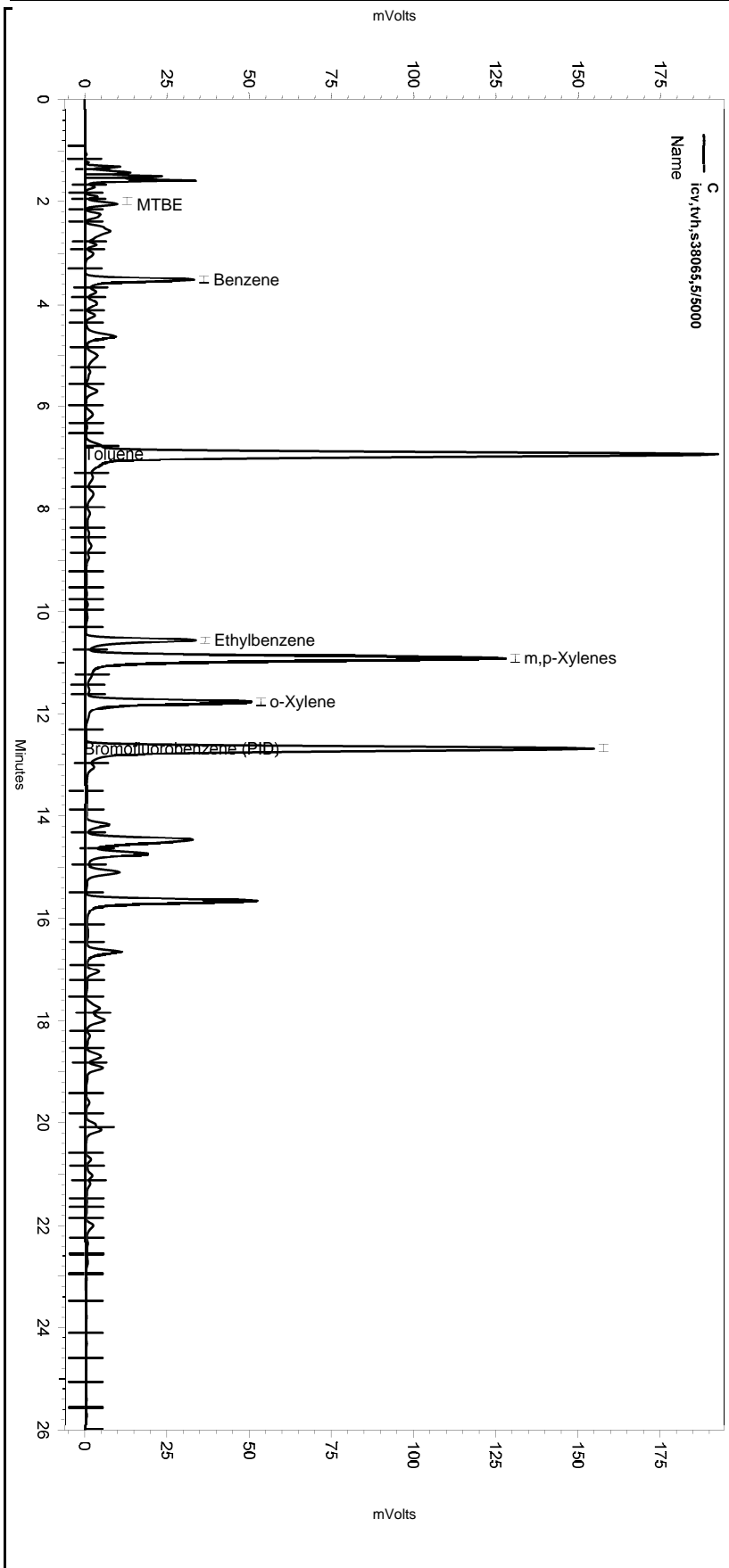
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: icv,tvh,s38065,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-026
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX249.met

Software Version 3.1.7
 Run Date: 9/7/2018 8:10:29 AM
 Analysis Date: 9/7/2018 12:30:10 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

Manual Integration Fixes

=====
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY INITIAL CALIBRATION FOR 303845 GCVOA Water: EPA 8021B

Inst : GC07
 Calnum : 328399506001
 Units : ng

Name : btxe_277
 Date : 05-OCT-2018 03:38
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	277_026	328399506026	BTXE_1	05-OCT-2018 03:38	S37985 (1000X), S37840 (5000X)
L2	277_027	328399506027	MBTXE_2	05-OCT-2018 04:16	S37984 (1250X), S37840 (5000X)
L3	277_028	328399506028	MBTXE_3	05-OCT-2018 04:54	S37984 (500X), S37840 (5000X)
L4	277_029	328399506029	MBTXE_4	05-OCT-2018 05:32	S37984 (125X), S37840 (5000X)
L5	277_030	328399506030	MBTXE_5	05-OCT-2018 06:11	S37983 (1000X), S37840 (5000X)
L6	277_031	328399506031	MBTXE_6	05-OCT-2018 06:49	S37983 (500X), S37840 (5000X)
L7	277_032	328399506032	MBTXE_7	05-OCT-2018 07:27	S37983 (250X), S37840 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Benzene	B	9811.2	8675.2	8514.3	8596.3	7314.2	6095.2	6188.0	AVRG		1.27E-4		7884.9	18	0.995	20	
Toluene	B	8193.2	7406.8	7645.5	8481.9	7740.8	7053.3	7770.4	AVRG		1.29E-4		7756.0	6	0.995	20	
Ethylbenzene	B	4922.8	4851.3	6347.0	6832.0	6397.2	6041.9	6617.6	AVRG		1.67E-4		6001.4	13	0.995	20	
m,p-Xylenes	B	7942.0	6189.0	7937.0	8578.1	7868.9	7085.8	7830.5	AVRG		1.31E-4		7633.0	10	0.995	20	
o-Xylene	B	8255.6	6923.6	6703.4	7226.5	6763.0	6209.9	6833.8	AVRG		1.43E-4		6988.0	9	0.995	20	
Bromofluorobenzene (PID)	B	6364.5	6210.5	6379.8	6358.7	6405.0	6361.6	6374.9	AVRG		1.57E-4		6350.7	1	0.995	20	
Benzene	C	576.80	781.90	701.44	781.44	720.25	611.51	626.35	AVRG		0.00146		685.67	12	0.995	20	
Toluene	C	668.40	795.50	703.12	783.94	767.85	713.77	788.48	AVRG		0.00134		745.87	7	0.995	20	
Ethylbenzene	C	568.40	626.50	555.00	638.60	641.89	600.50	663.56	AVRG		0.00163		613.49	7	0.995	20	
m,p-Xylenes	C	860.00	880.10	743.68	798.98	768.76	716.57	794.84	AVRG		0.00126		794.70	7	0.995	20	
o-Xylene	C	568.00	770.20	668.60	700.64	671.00	623.64	688.02	AVRG		0.00149		670.01	9	0.995	20	
Bromofluorobenzene (PID)	C	614.56	604.66	615.91	613.48	609.55	603.98	603.45	AVRG		0.00164		609.37	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Benzene	B	2.5000	24	10.000	10	25.000	8	100.00	9	500.00	-7	1000.0	-23	2000.0	-22
Toluene	B	2.5000	6	10.000	-5	25.000	-1	100.00	9	500.00	0	1000.0	-9	2000.0	0
Ethylbenzene	B	2.5000	-18	10.000	8	25.000	6	100.00	14	500.00	7	1000.0	1	2000.0	10
m,p-Xylenes	B	2.5000	4	10.000	10	25.000	4	100.00	12	500.00	3	1000.0	-7	2000.0	3
o-Xylene	B	2.5000	18	10.000	-1	25.000	-4	100.00	3	500.00	-3	1000.0	-11	2000.0	-2
Bromofluorobenzene (PID)	B	900.00	0	900.00	-2	900.00	0	900.00	0	900.00	1	900.00	0	900.00	0
Benzene	C	2.5000	-16	10.000	14	25.000	2	100.00	14	500.00	5	1000.0	-11	2000.0	-9
Toluene	C	2.5000	-10	10.000	7	25.000	-6	100.00	5	500.00	3	1000.0	-4	2000.0	6
Ethylbenzene	C	2.5000	-7	10.000	2	25.000	-10	100.00	4	500.00	5	1000.0	-2	2000.0	8
m,p-Xylenes	C	2.5000	8	10.000	11	25.000	-6	100.00	1	500.00	-3	1000.0	-10	2000.0	0
o-Xylene	C	2.5000	-15	10.000	15	25.000	0	100.00	5	500.00	0	1000.0	-7	2000.0	3
Bromofluorobenzene (PID)	C	900.00	1	900.00	-1	900.00	1	900.00	1	900.00	0	900.00	-1	900.00	-1

EAH 10/08/18 : Corrected automatically drawn baseline for Ch. B in BTXE_1 (277_026).

EAH 10/08/18 : Corrected automatically drawn baseline for Ch. B in MBTXE_2 (277_027).

Analyst: JM2

Date: 10/05/18

Reviewer: EAH

Date: 10/08/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCVOA Water
EPA 8021B

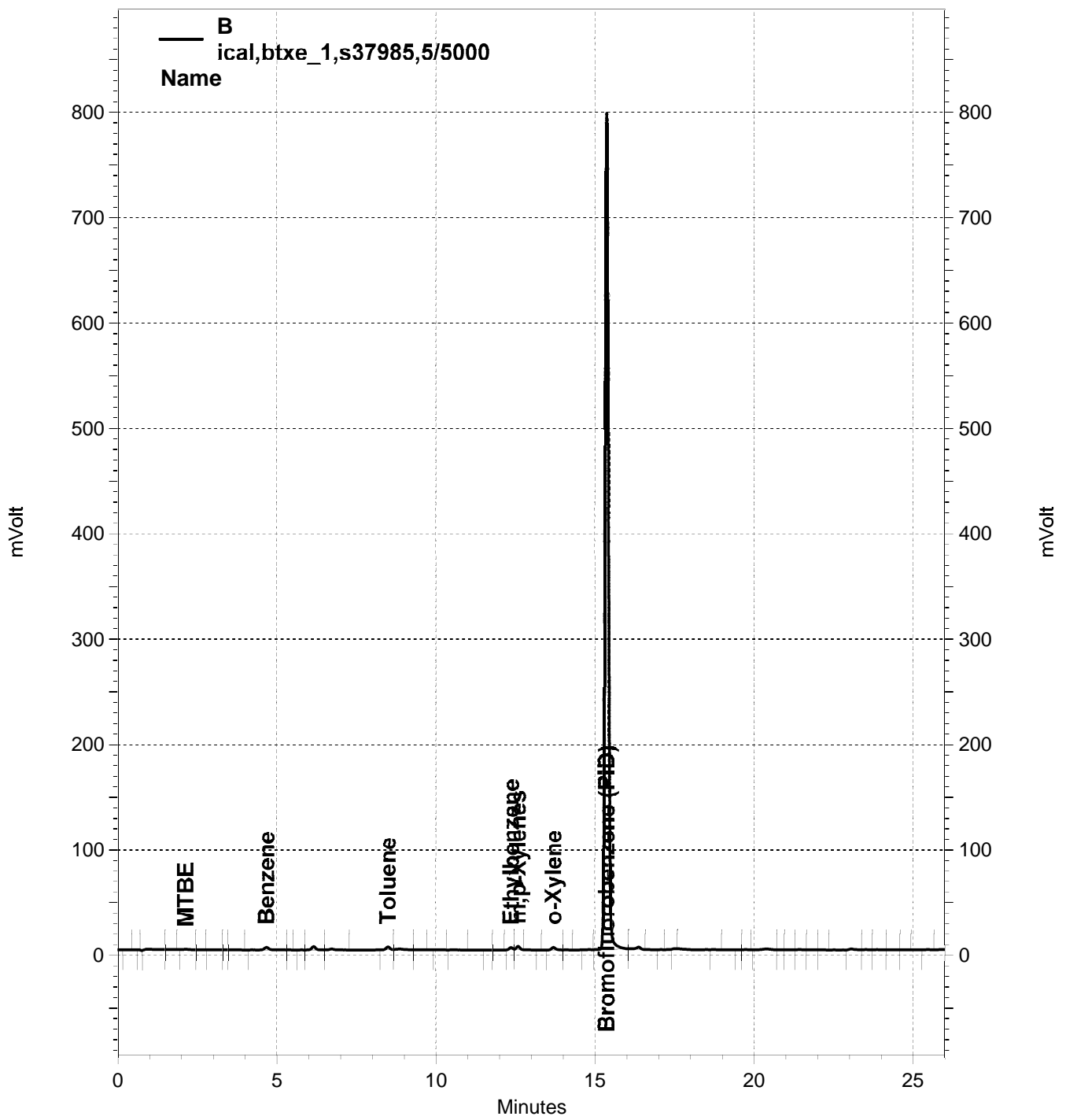
Inst : GC07
Calnum : 328399506001

Name : btxe_277
Cal Date : 05-OCT-2018

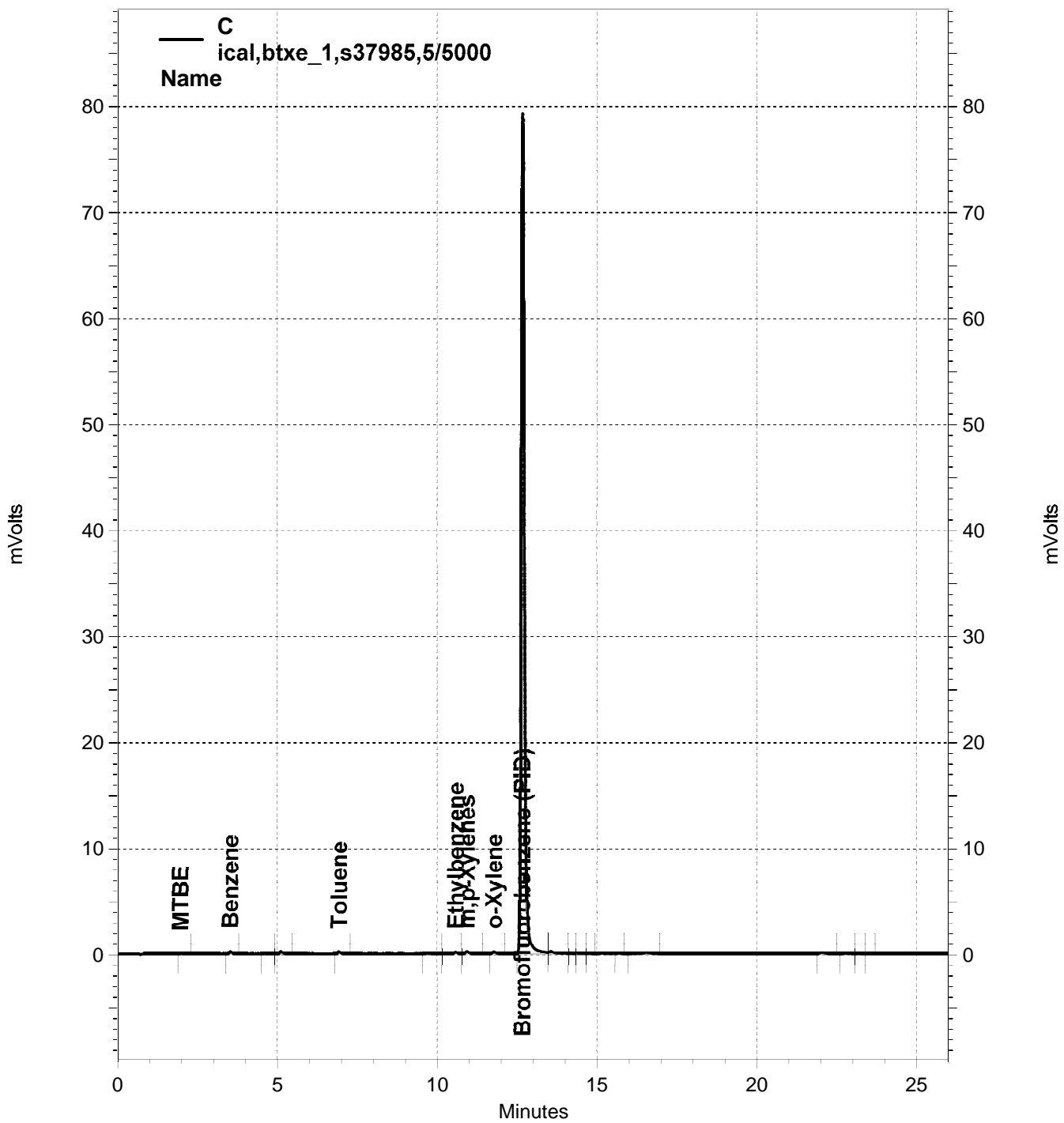
ICV 328399506034 (277_034 05-OCT-2018) stds: S37674 (1000X), S37840 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	100.0	106.7	ng	7	15	
Toluene	B	100.0	106.1	ng	6	15	
Ethylbenzene	B	100.0	110.0	ng	10	15	
m,p-Xylenes	B	200.0	210.1	ng	5	15	
o-Xylene	B	100.0	101.8	ng	2	15	
Benzene	C	100.0	111.1	ng	11	15	
Toluene	C	100.0	98.14	ng	-2	15	
Ethylbenzene	C	100.0	101.0	ng	1	15	
m,p-Xylenes	C	200.0	190.9	ng	-5	15	
o-Xylene	C	100.0	99.97	ng	0	15	

ALE: 10/05/18 * JM2: 10/05/18 EAH: 10/08/18



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,btxe_1,s37985,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 3:38:31 AM
 Analysis Date: 10/5/2018 12:05:46 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1877021	0.000 CAL
GAS:6-10			187126	0.000 CAL
GAS:6-12			294590	0.000 CAL
GAS:7-12			283589	0.000 CAL
JP4:7-12			283589	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.150	2.133	4196	0.000 CAL
Benzene	4.683	4.667	24528	2.500 CAL
Toluene	8.500	8.483	20483	2.500 CAL
Ethylbenzene	12.367	12.350	12307	2.500 CAL
m,p-Xylenes	12.583	12.567	19855	2.500 CAL
o-Xylene	13.700	13.683	20639	2.500 CAL
Bromofluorobenzene (PID)	15.367	15.350	5728058	900.000 CAL

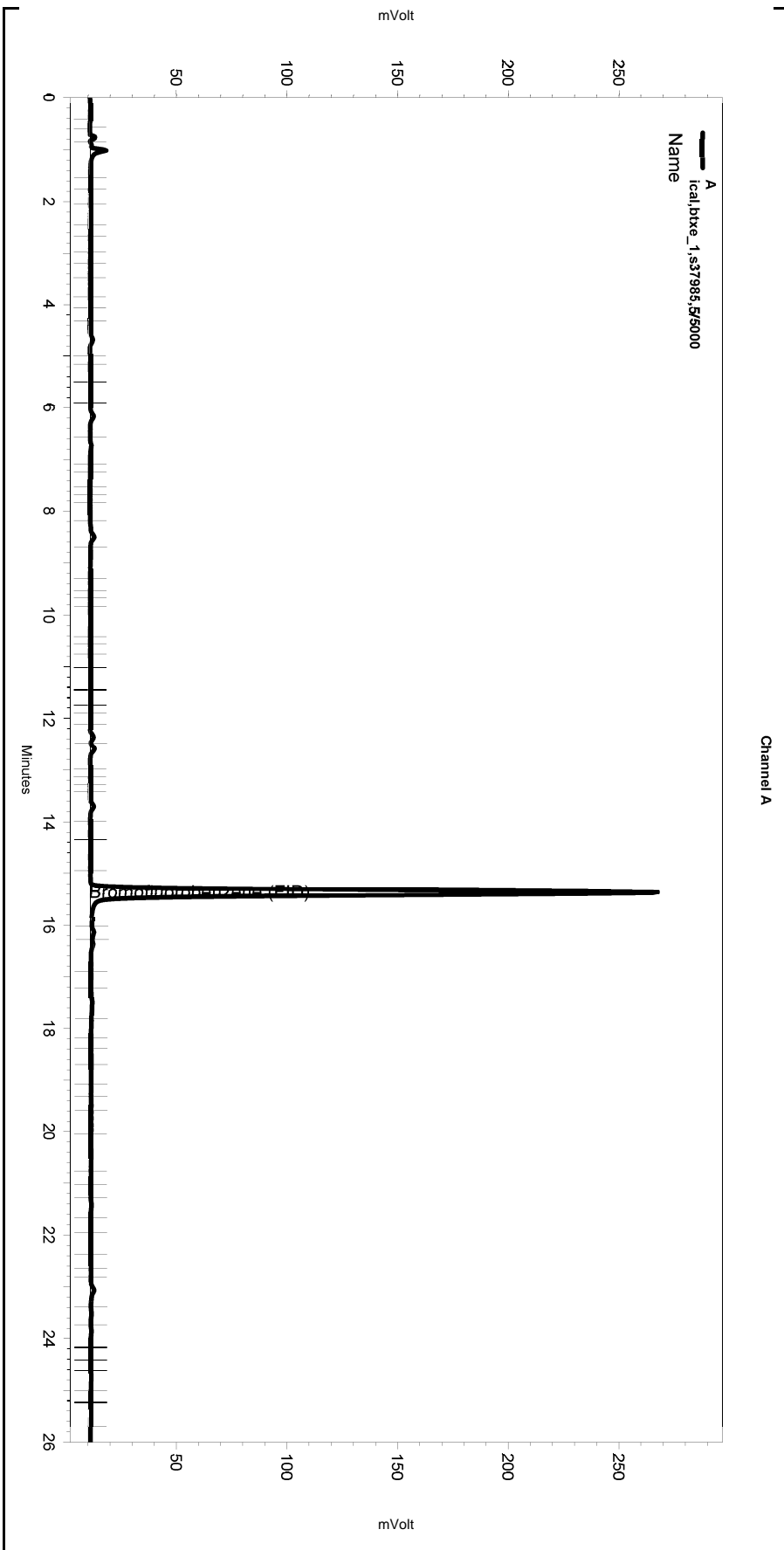
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	278	0.000 CAL
Benzene	3.533	3.533	1442	2.500 CAL
Toluene	6.933	6.916	1671	2.500 CAL
Ethylbenzene	10.583	10.566	1421	2.500 CAL
m,p-Xylenes	10.933	10.916	2150	2.500 CAL
o-Xylene	11.783	11.766	1420	2.500 CAL
Bromofluorobenzene (PID)	12.666	12.666	553100	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,btxe_1,s37985,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 3:38:31 AM
 Analysis Date: 10/5/2018 12:05:46 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

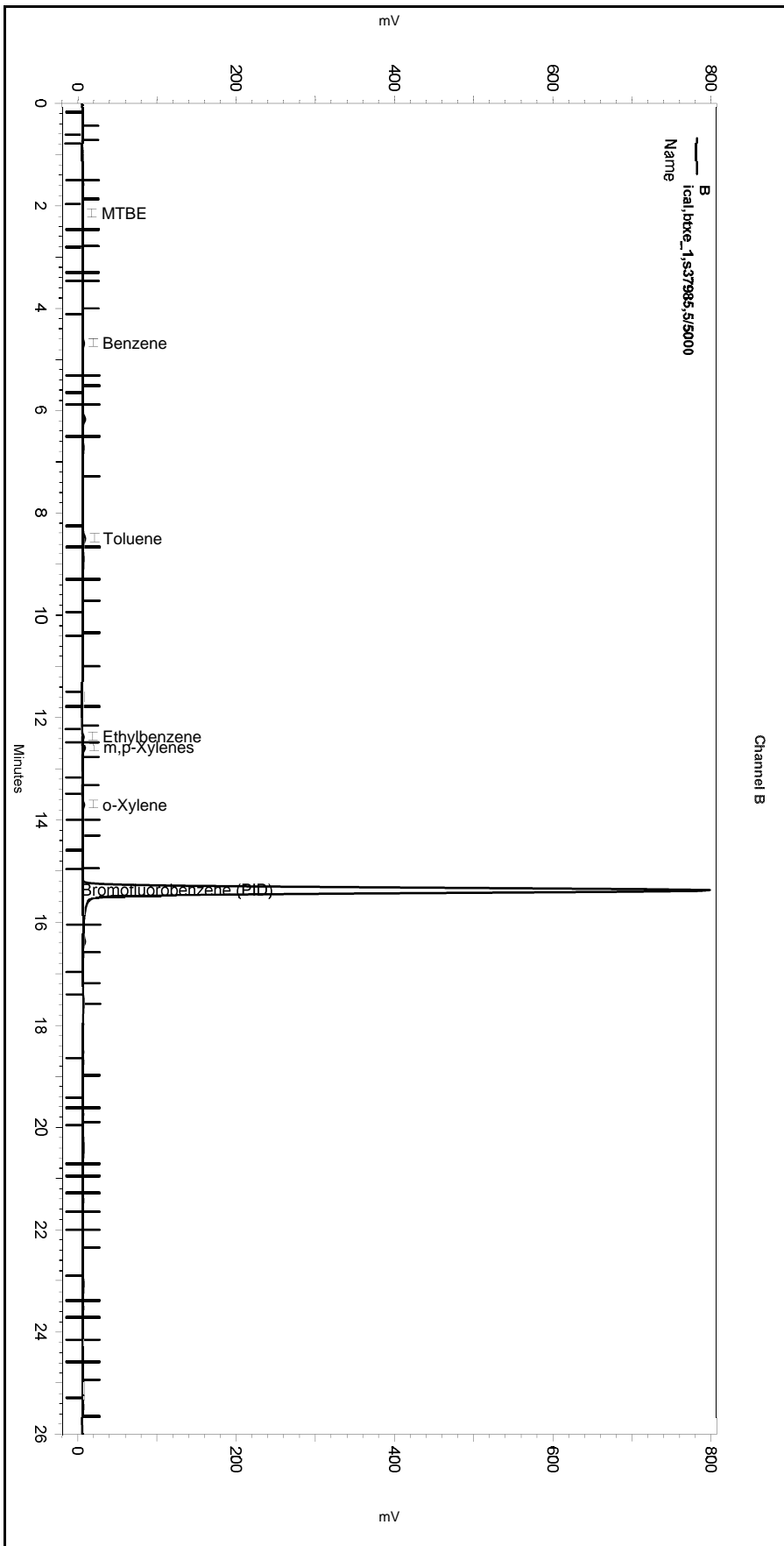
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,btxe_1,s37985,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 3:38:31 AM
 Analysis Date: 10/5/2018 12:05:46 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

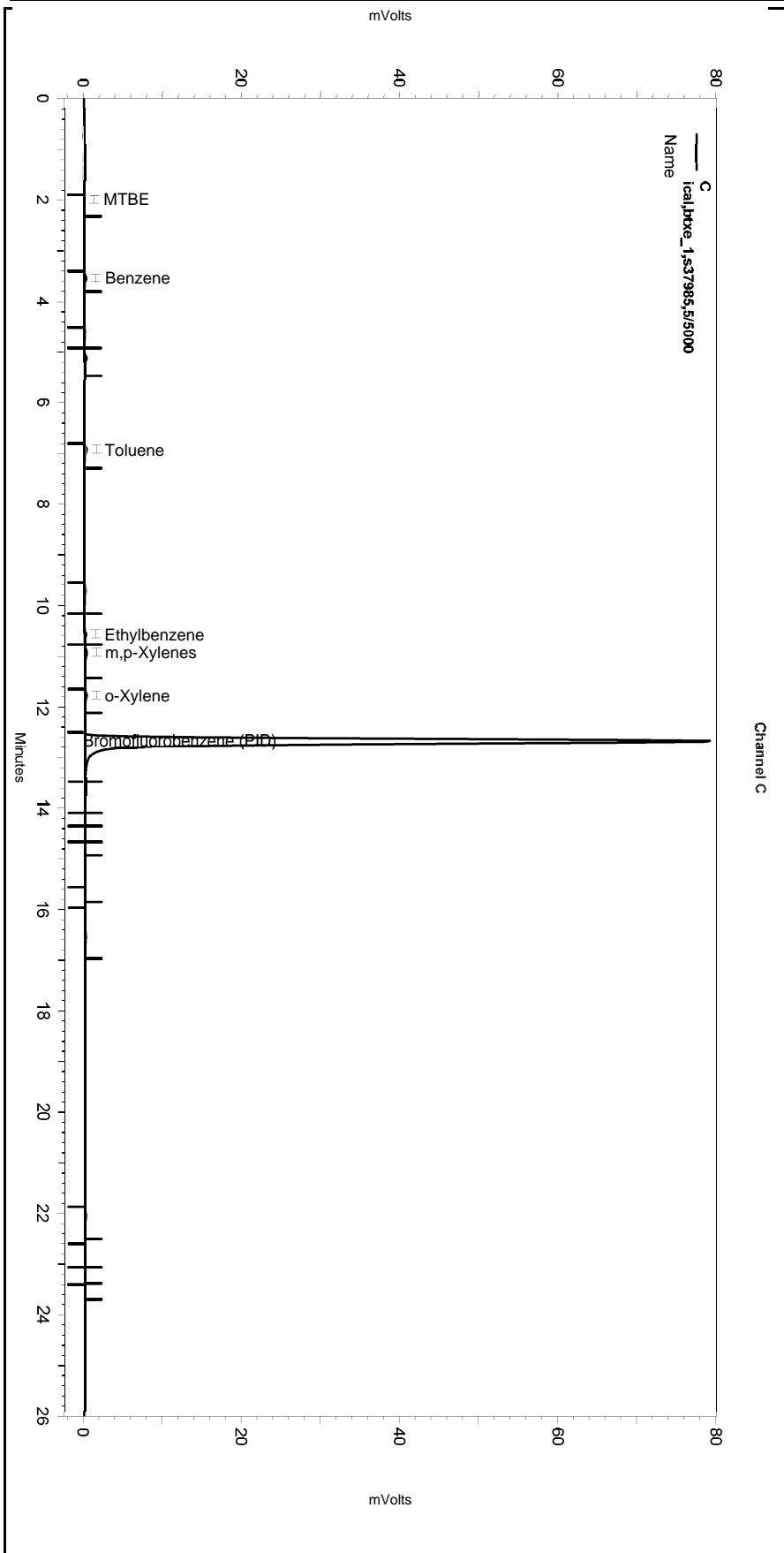
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Valley to Valley	0.045	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,btxe_1,s37985,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 3:38:31 AM
 Analysis Date: 10/5/2018 12:05:46 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,btxe_1,s37985,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 3:38:31 AM
 Analysis Date: 10/5/2018 12:05:24 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1877021	0.000 CAL
GAS:6-10			187126	0.000 CAL
GAS:6-12			294590	0.000 CAL
GAS:7-12			283589	0.000 CAL
JP4:7-12			283589	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.150	2.133	21213	0.000 CAL
Benzene	4.683	4.667	38776	2.500 CAL
Toluene	8.500	8.483	25584	2.500 CAL
Ethylbenzene	12.367	12.350	17991	2.500 CAL
m,p-Xylenes	12.583	12.567	31244	2.500 CAL
o-Xylene	13.700	13.683	21478	2.500 CAL
Bromofluorobenzene (PID)	15.367	15.350	5764446	900.000 CAL

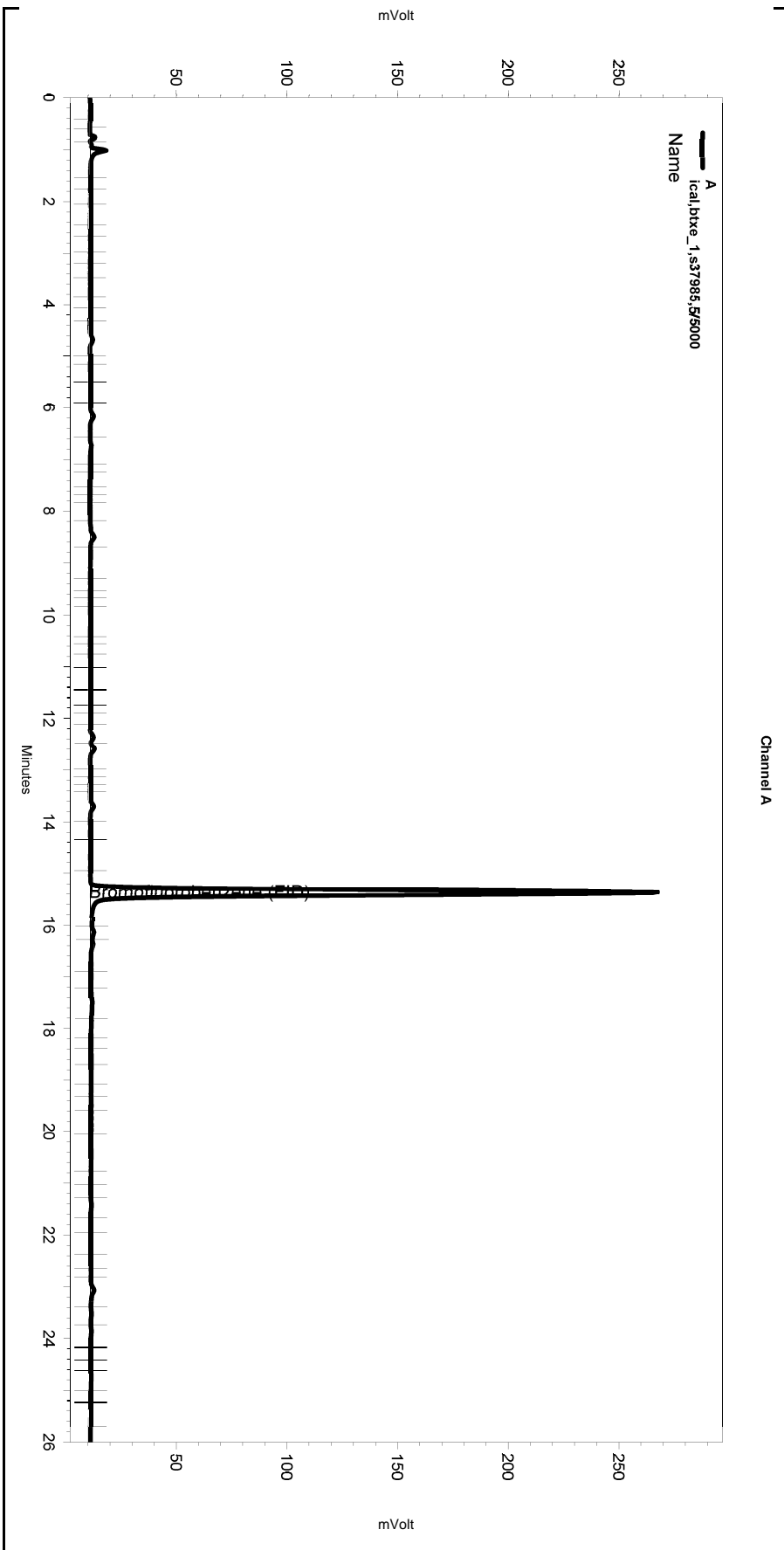
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	278	0.000 CAL
Benzene	3.533	3.533	1442	2.500 CAL
Toluene	6.933	6.916	1671	2.500 CAL
Ethylbenzene	10.583	10.566	1421	2.500 CAL
m,p-Xylenes	10.933	10.916	2150	2.500 CAL
o-Xylene	11.783	11.766	1420	2.500 CAL
Bromofluorobenzene (PID)	12.666	12.666	553100	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,btxe_1,s37985,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 3:38:31 AM
 Analysis Date: 10/5/2018 12:05:24 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

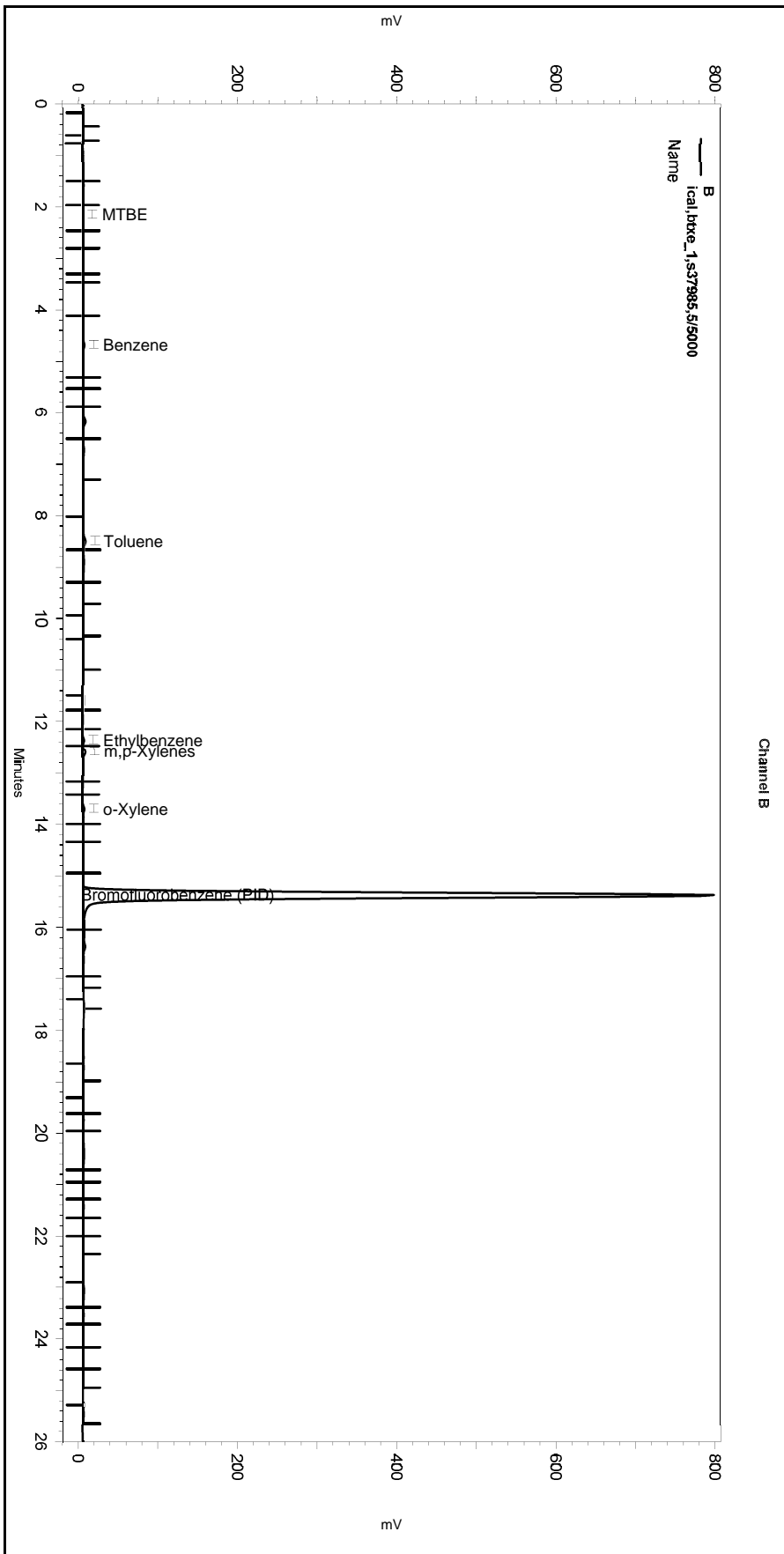
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,btxe_1,s37985,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 3:38:31 AM
 Analysis Date: 10/5/2018 12:05:24 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

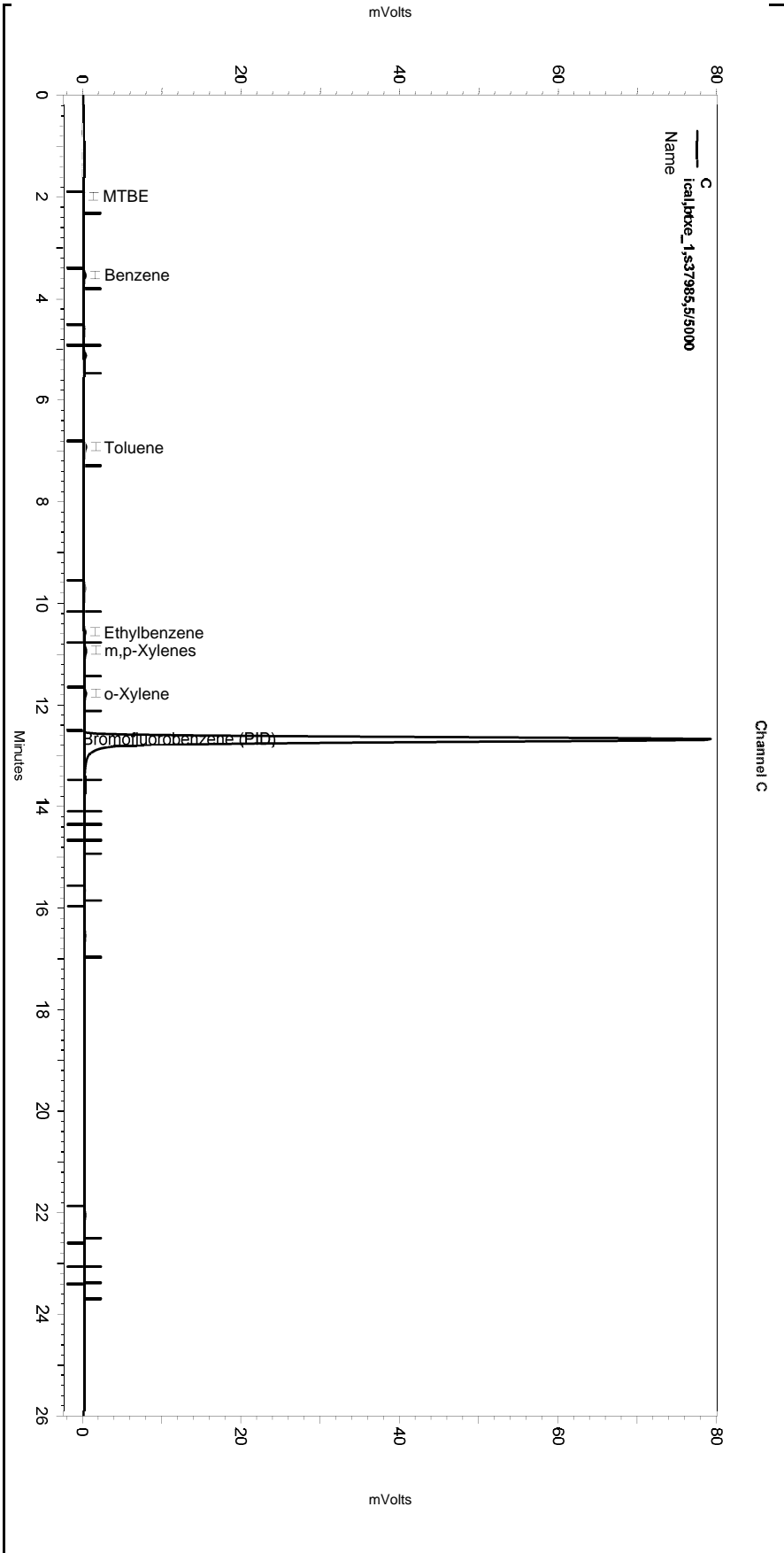
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Valley to Valley	0.045	26.017	0



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

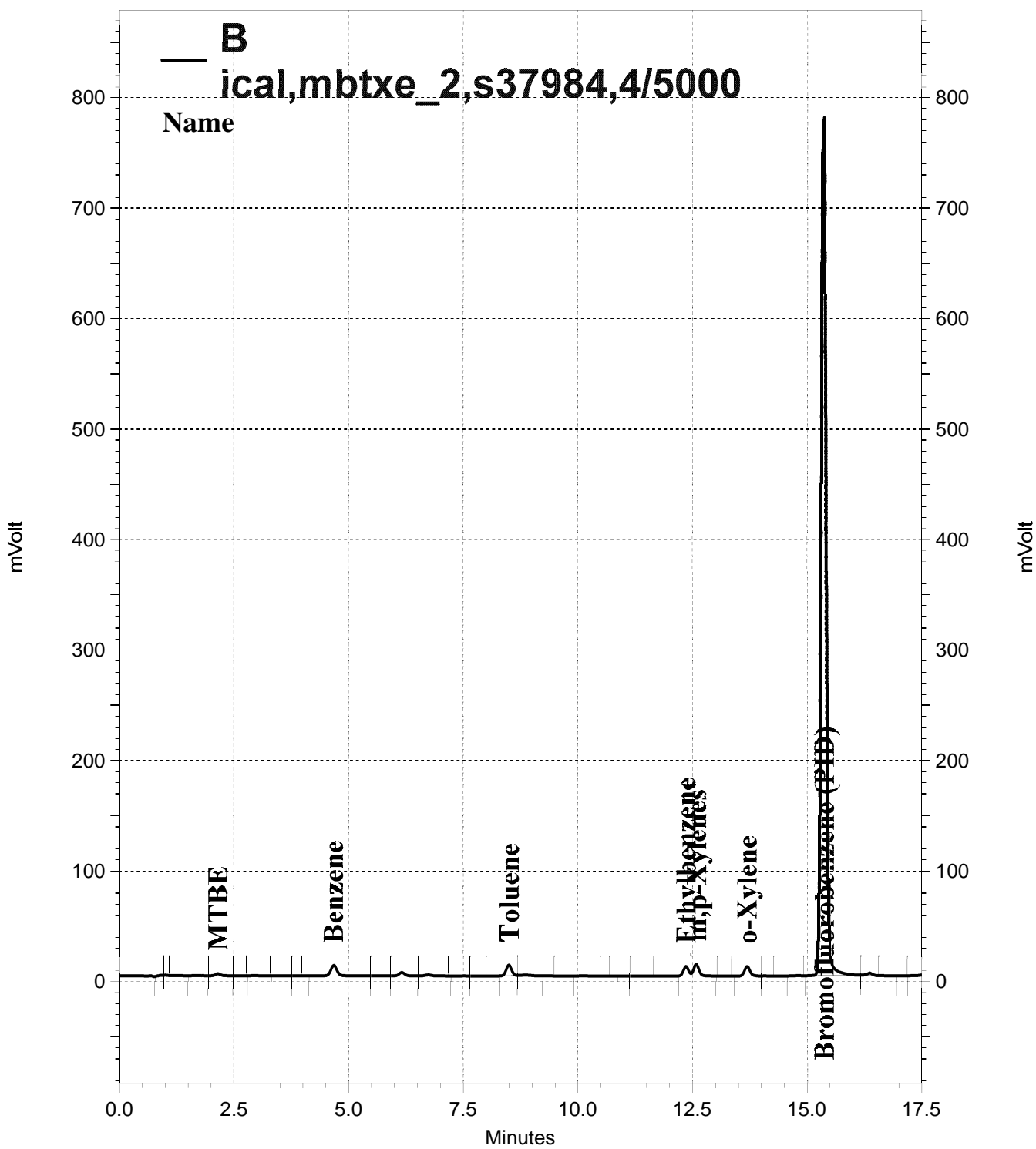
=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

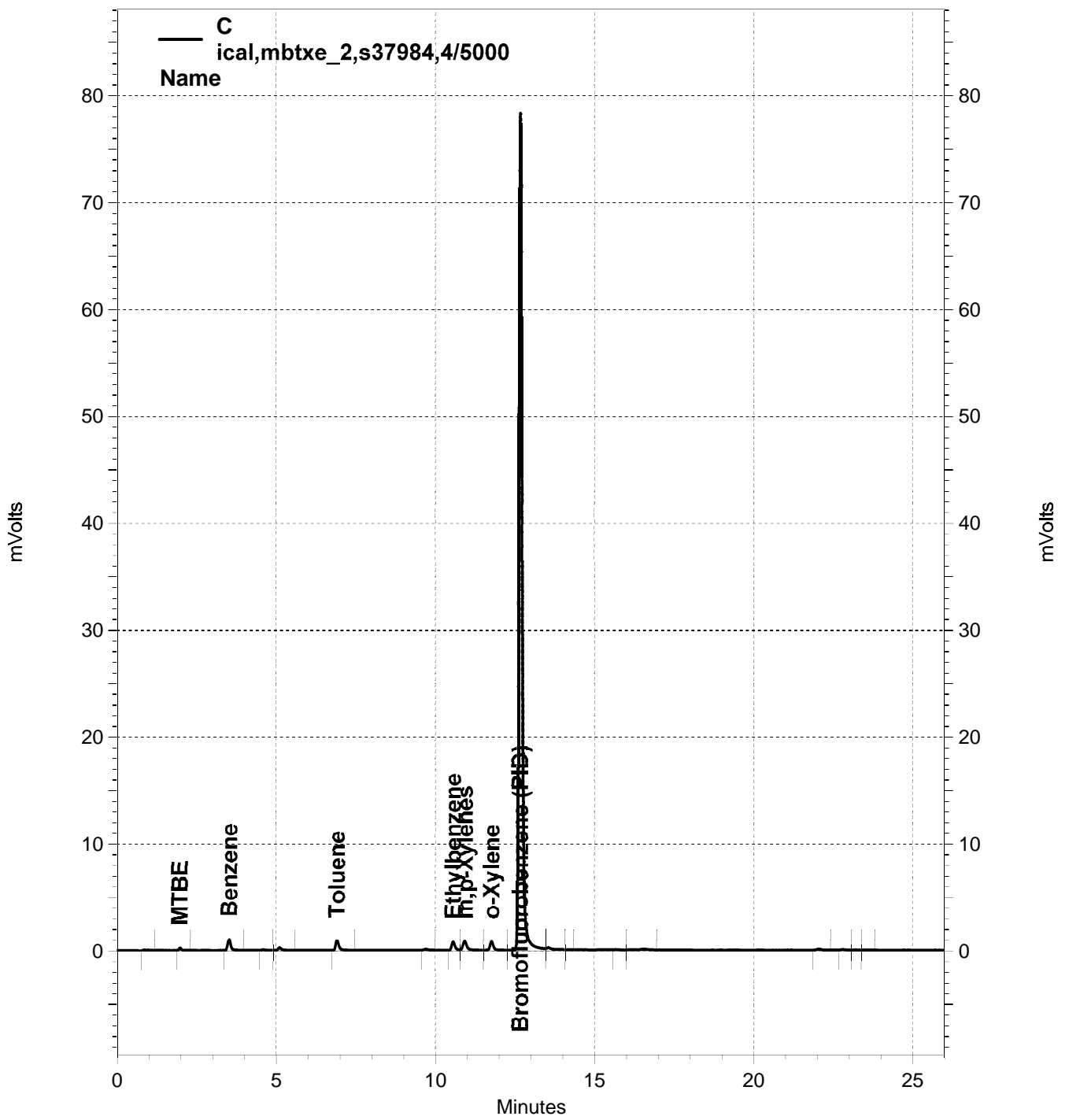
=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
Sample Name: ical,mbtxe_2,s37984,4/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 4:16:41 AM
Analysis Date: 10/5/2018 8:28:41 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1836040	925.695
GAS:6-10			381681	158.992
GAS:6-12			479641	171.048
GAS:7-12			459080	205.299
JP4:7-12			459080	122.447

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.150	2.133	14059	10.944
Benzene	4.667	4.667	86752	11.002
Toluene	8.500	8.483	74068	9.550
Ethylbenzene	12.350	12.350	64880	10.811
m,p-Xylenes	12.583	12.567	84130	11.022
o-Xylene	13.683	13.683	69236	9.908
Bromofluorobenzene (PID)	15.367	15.350	5589453	880.127

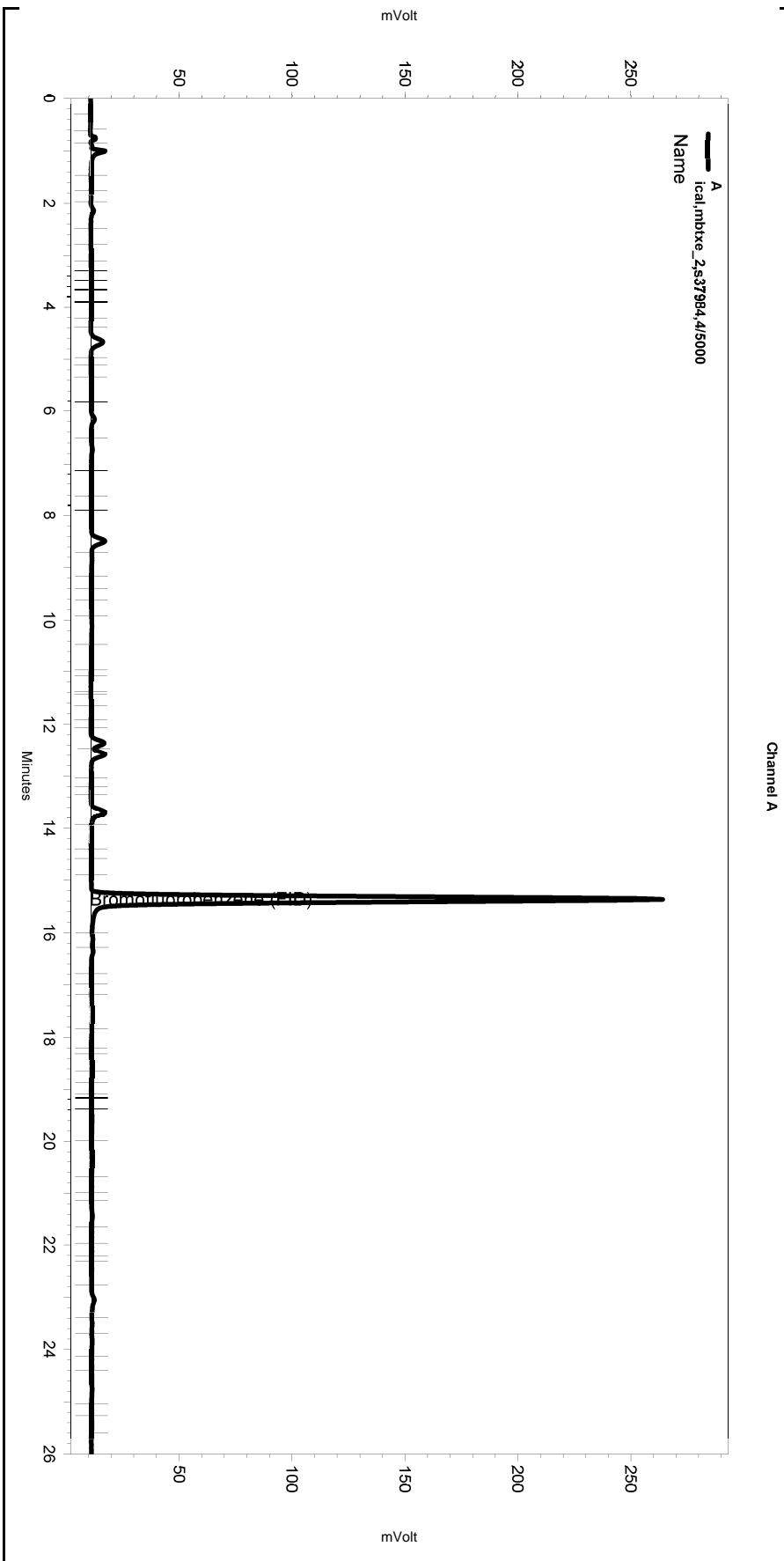
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	1900	16.543
Benzene	3.533	3.533	7819	11.403
Toluene	6.916	6.916	7955	10.665
Ethylbenzene	10.566	10.566	6265	10.212
m,p-Xylenes	10.933	10.916	8801	11.075
o-Xylene	11.766	11.766	7702	11.495
Bromofluorobenzene (PID)	12.666	12.666	544191	893.044

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtxe_2,s37984,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:16:41 AM
 Analysis Date: 10/5/2018 8:28:41 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

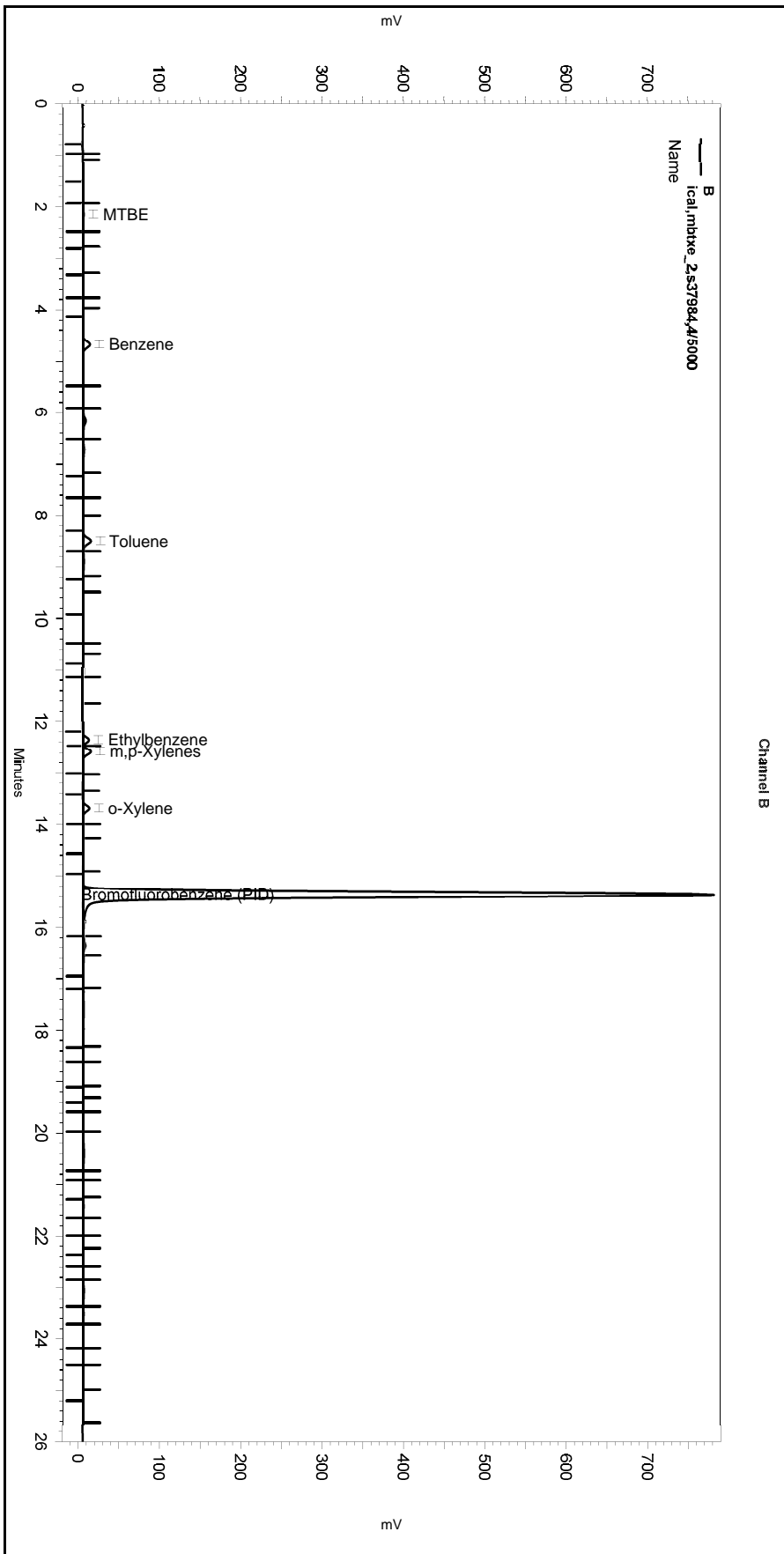
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbt_xe_2,s37984,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbt_xe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:16:41 AM
 Analysis Date: 10/5/2018 8:28:41 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

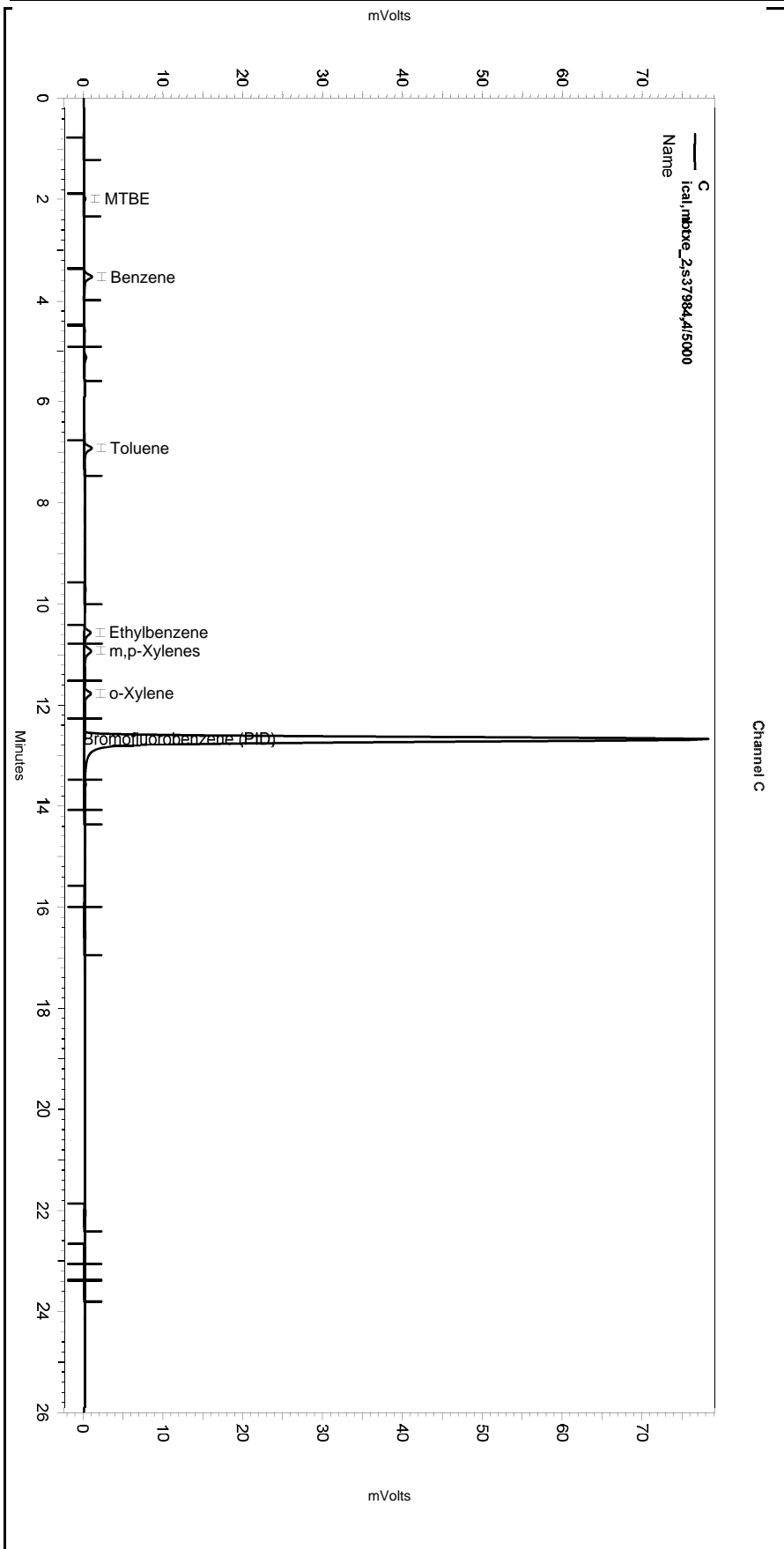
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Valley to Valley	0.78	25.553	0
Yes	Move BL Stop	12.467	13.026	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbt_xe_2,s37984,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:16:41 AM
 Analysis Date: 10/5/2018 8:28:41 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters > -----

No items selected for this section

 < C > -----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtXe_2,s37984,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtXe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:16:41 AM
 Analysis Date: 10/5/2018 12:07:12 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1836040	0.000 CAL
GAS:6-10			381681	0.000 CAL
GAS:6-12			479641	0.000 CAL
GAS:7-12			459080	0.000 CAL
JP4:7-12			459080	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.150	2.133	36532	10.000 CAL
Benzene	4.667	4.667	131140	10.000 CAL
Toluene	8.500	8.483	99161	10.000 CAL
Ethylbenzene	12.350	12.350	82318	10.000 CAL
m,p-Xylenes	12.583	12.567	97482	10.000 CAL
o-Xylene	13.683	13.683	84207	10.000 CAL
Bromofluorobenzene (PID)	15.367	15.350	5662668	900.000 CAL

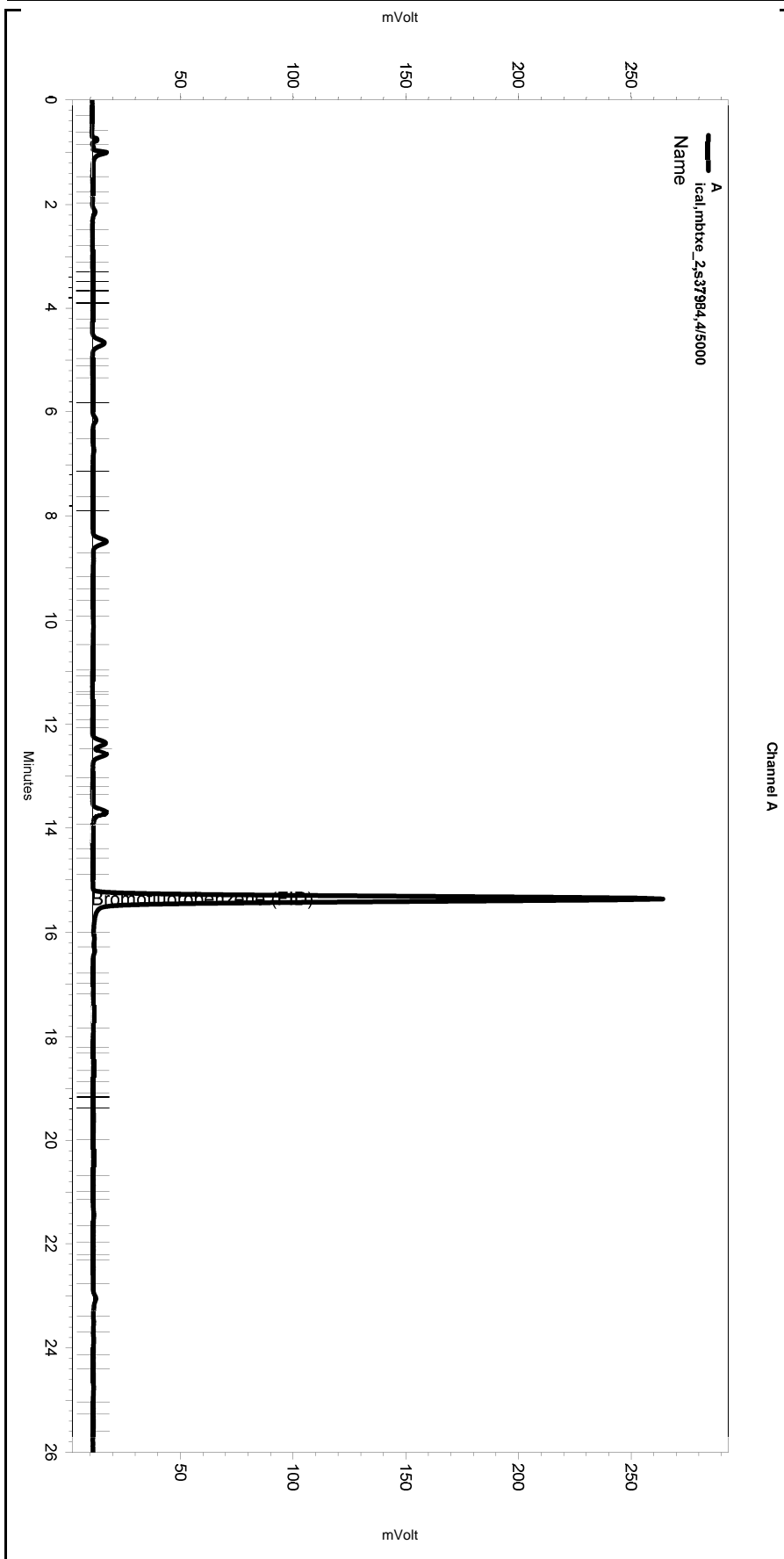
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	1900	10.000 CAL
Benzene	3.533	3.533	7819	10.000 CAL
Toluene	6.916	6.916	7955	10.000 CAL
Ethylbenzene	10.566	10.566	6265	10.000 CAL
m,p-Xylenes	10.933	10.916	8801	10.000 CAL
o-Xylene	11.766	11.766	7702	10.000 CAL
Bromofluorobenzene (PID)	12.666	12.666	544191	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtixe_2,s37984,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:16:41 AM
 Analysis Date: 10/5/2018 12:07:12 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

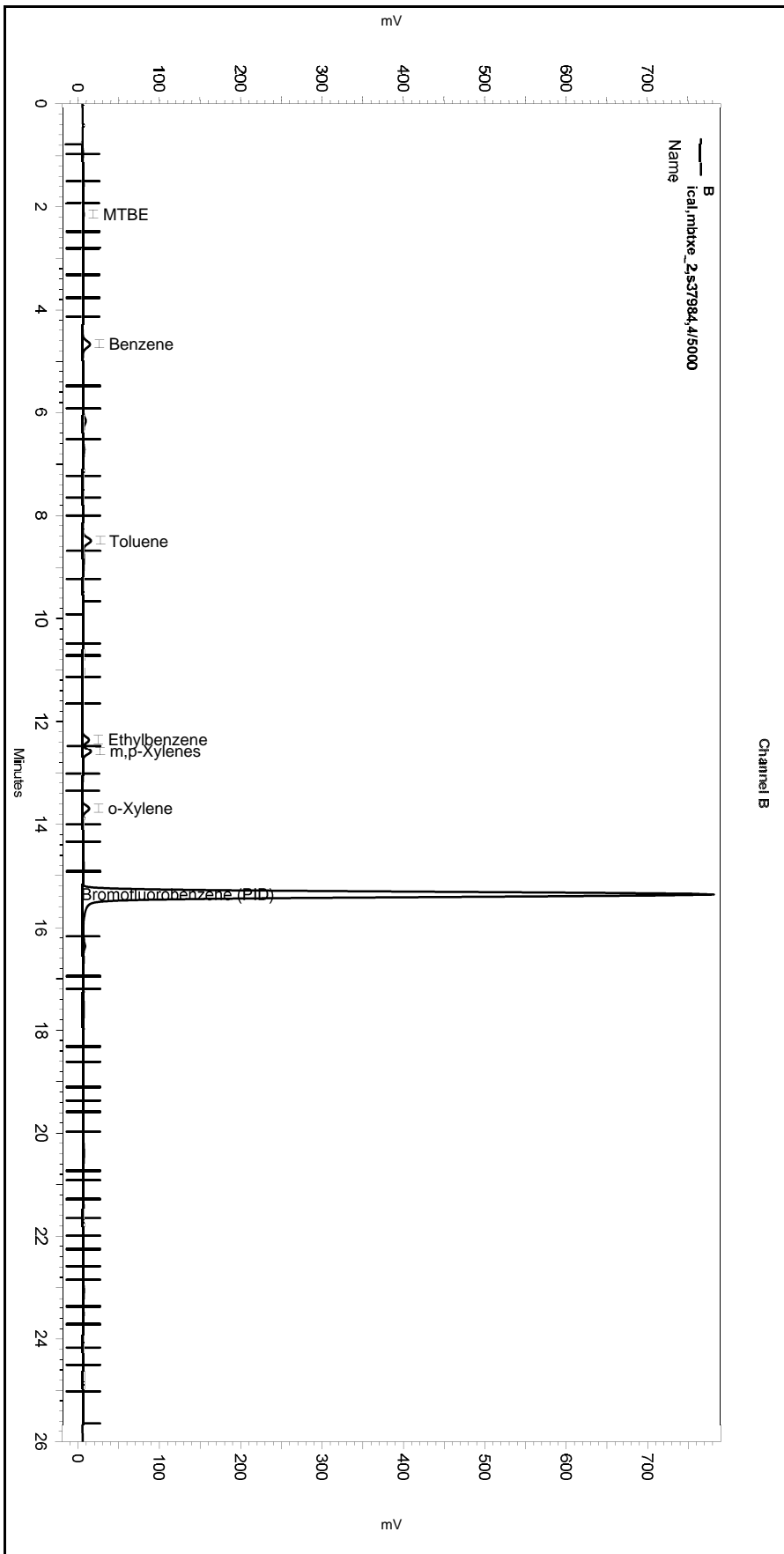
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtxe_2,s37984,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:16:41 AM
 Analysis Date: 10/5/2018 12:07:12 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

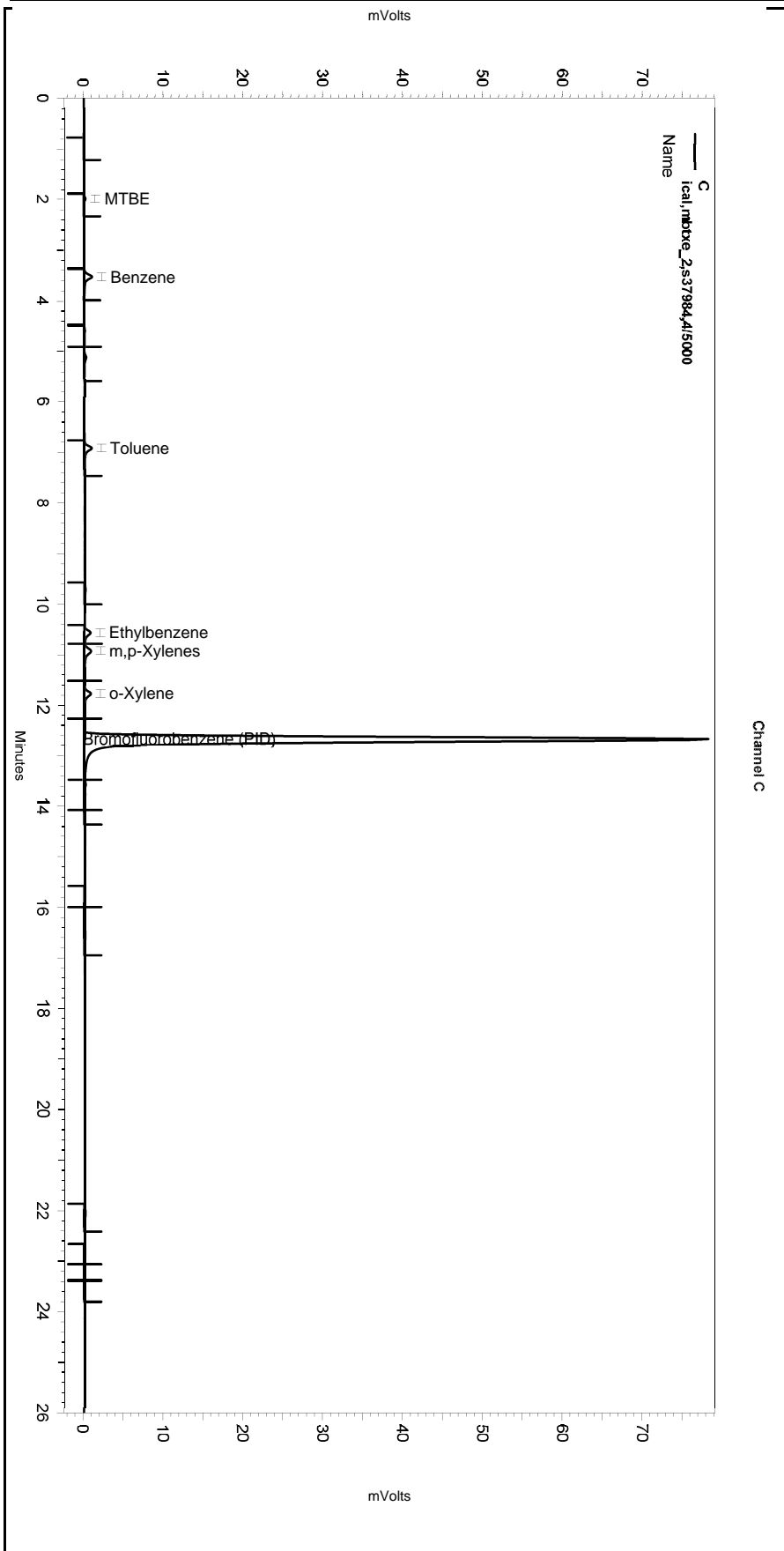
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Valley to Valley	0.78	25.553	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtXe_2,s37984,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:16:41 AM
 Analysis Date: 10/5/2018 12:07:12 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < C >

No items selected for this section

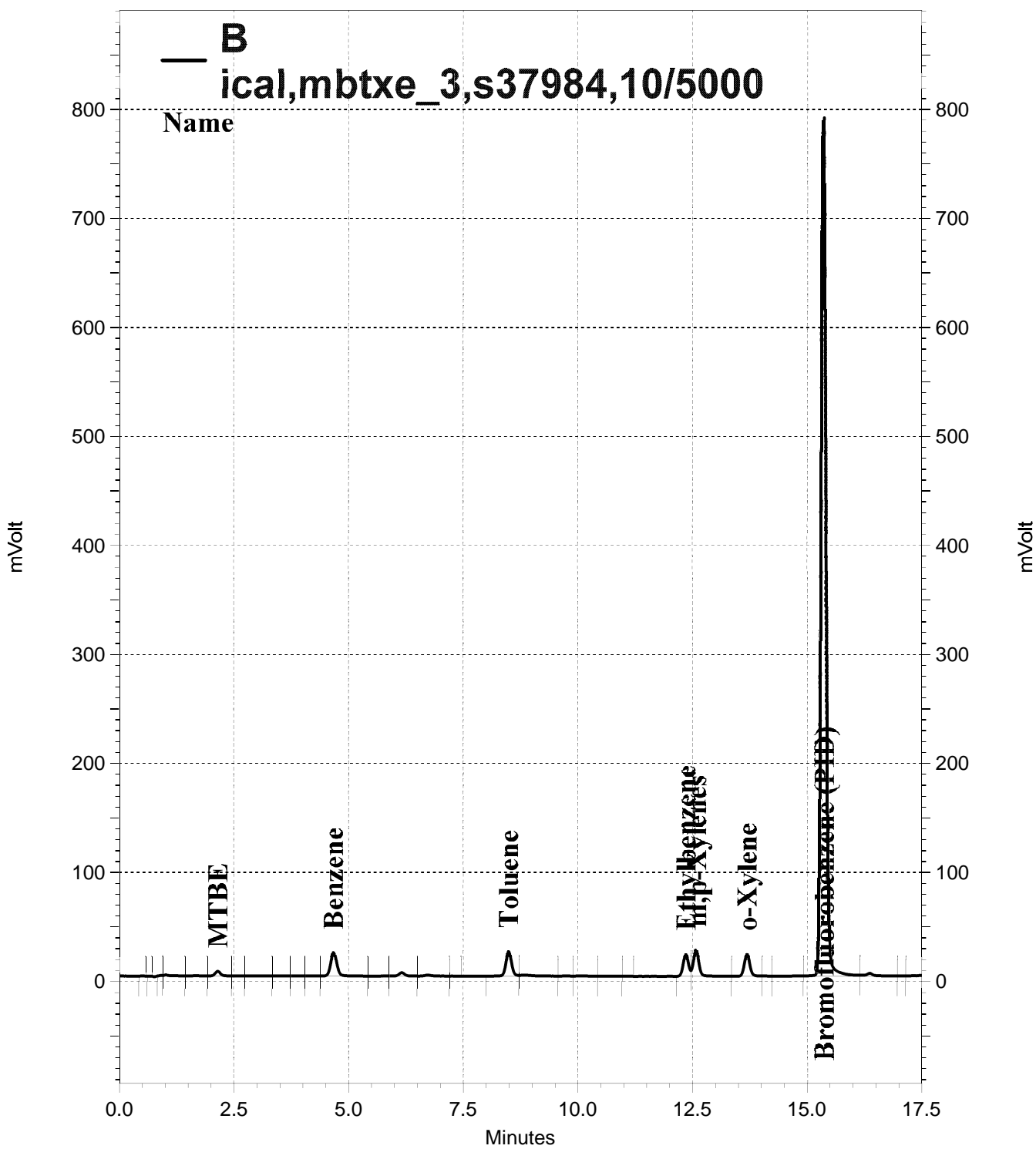
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

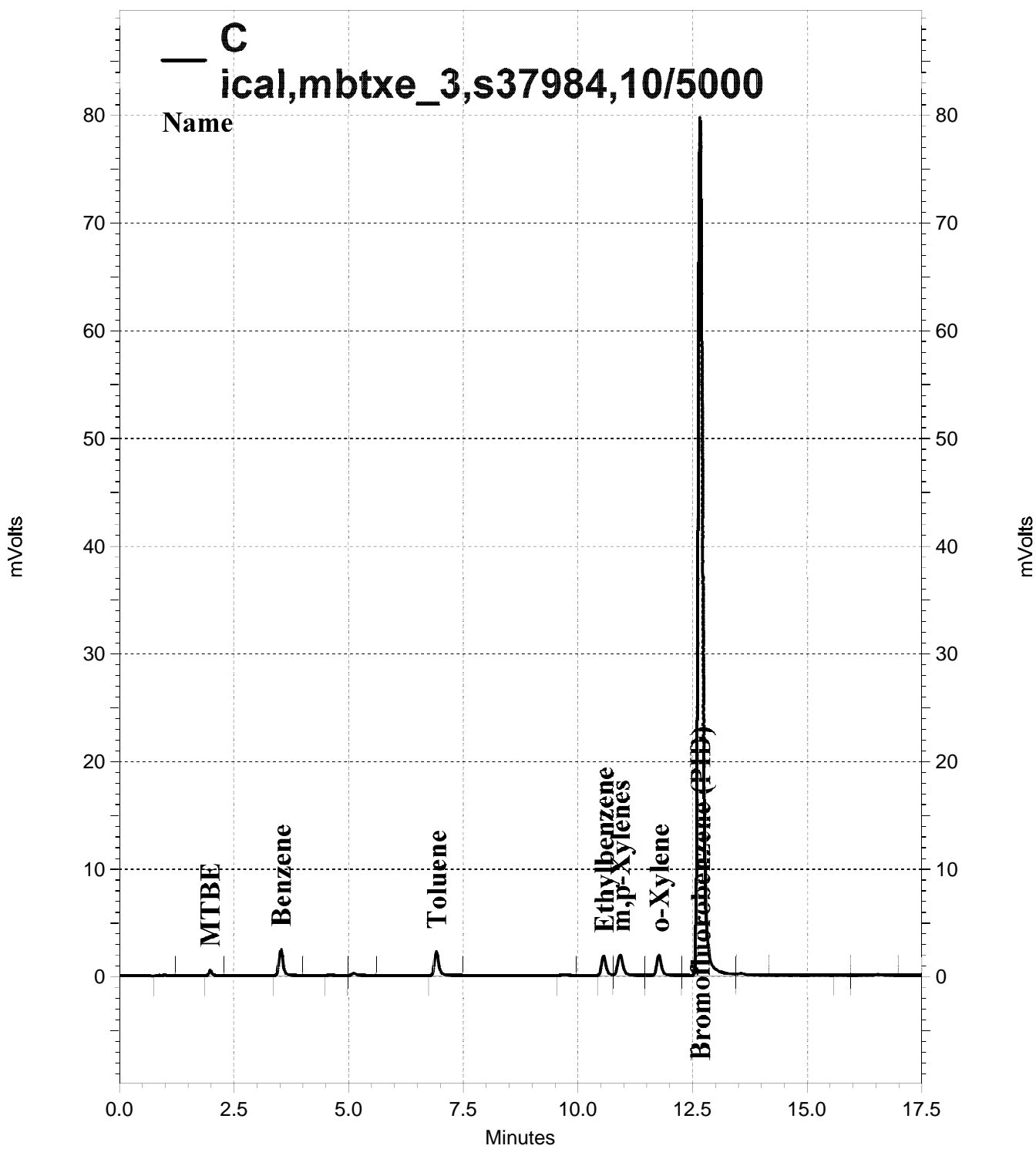
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-028, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-028, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtXe_3,s37984,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtXe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:54:52 AM
 Analysis Date: 10/5/2018 12:00:49 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1868336	0.000 CAL
GAS:6-10			704857	0.000 CAL
GAS:6-12			774345	0.000 CAL
GAS:7-12			753014	0.000 CAL
JP4:7-12			753014	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.150	2.133	50913	25.000 CAL
Benzene	4.667	4.667	212858	25.000 CAL
Toluene	8.483	8.483	191137	25.000 CAL
Ethylbenzene	12.350	12.350	158676	25.000 CAL
m,p-Xylenes	12.583	12.567	198424	25.000 CAL
o-Xylene	13.683	13.683	167586	25.000 CAL
Bromofluorobenzene (PID)	15.367	15.350	5741850	900.000 CAL

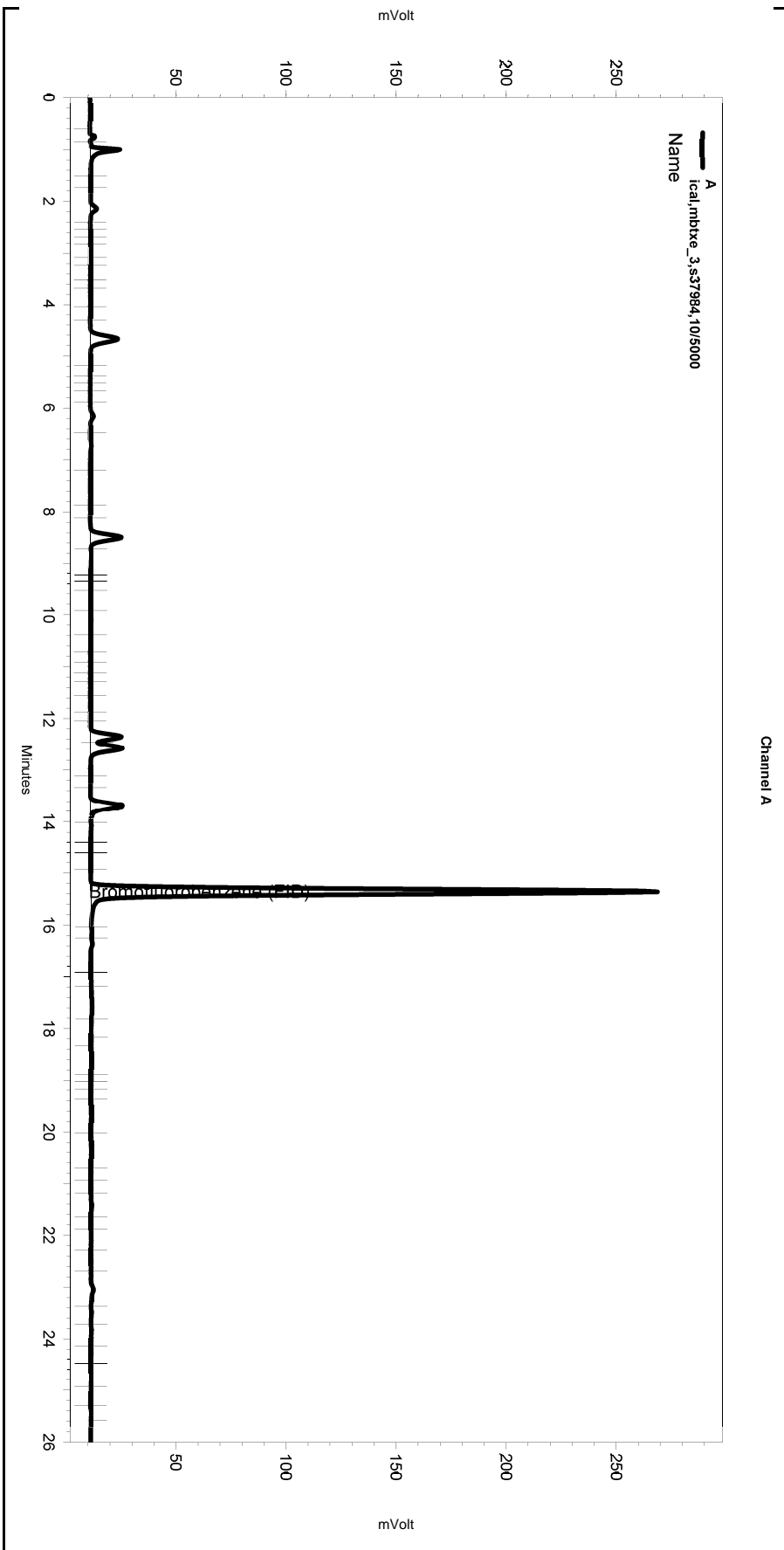
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	3429	25.000 CAL
Benzene	3.533	3.533	17536	25.000 CAL
Toluene	6.916	6.916	17578	25.000 CAL
Ethylbenzene	10.566	10.566	13875	25.000 CAL
m,p-Xylenes	10.916	10.916	18592	25.000 CAL
o-Xylene	11.766	11.766	16715	25.000 CAL
Bromofluorobenzene (PID)	12.666	12.666	554315	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtixe_3,s37984,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:54:52 AM
 Analysis Date: 10/5/2018 12:00:49 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

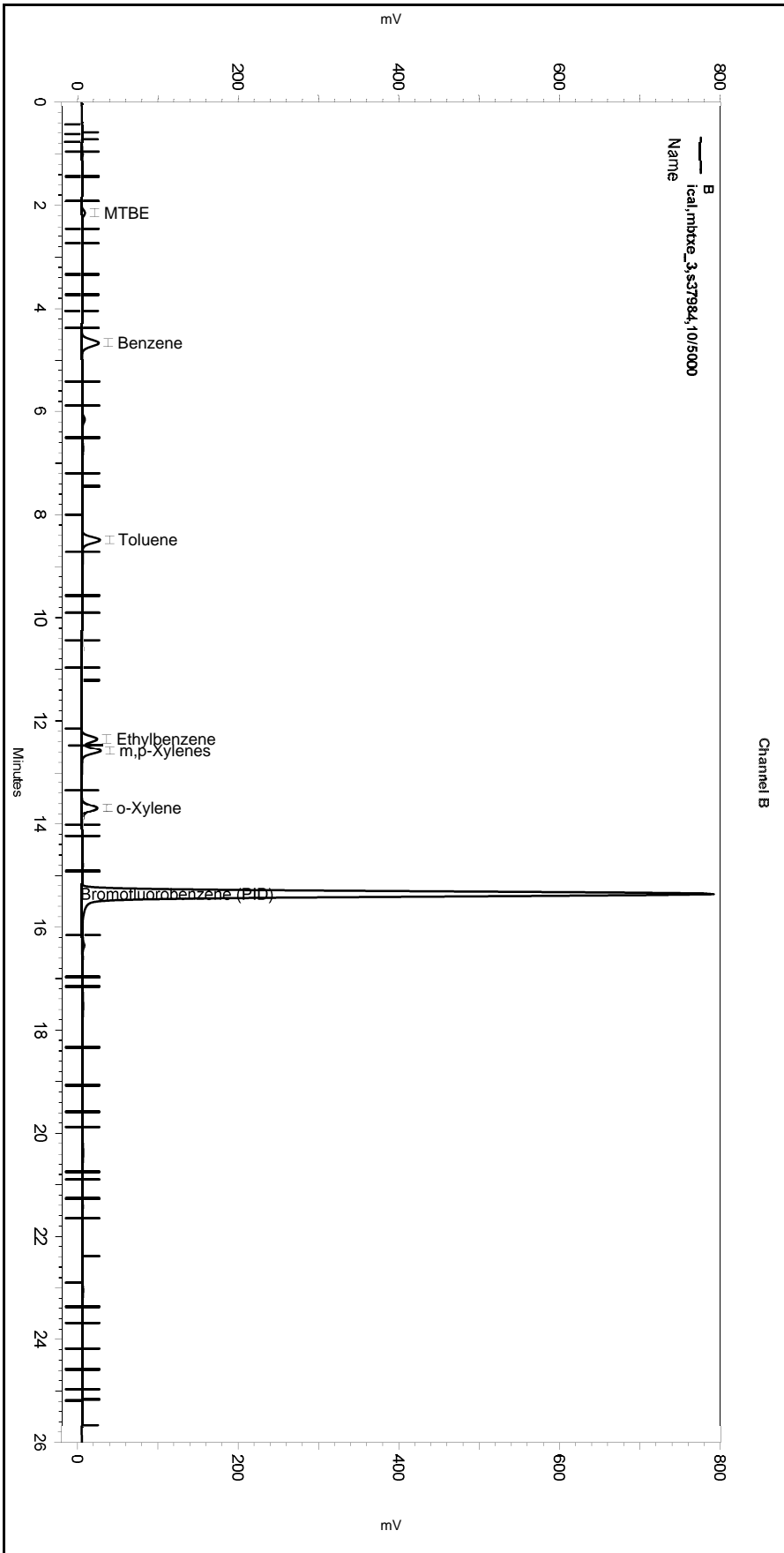
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

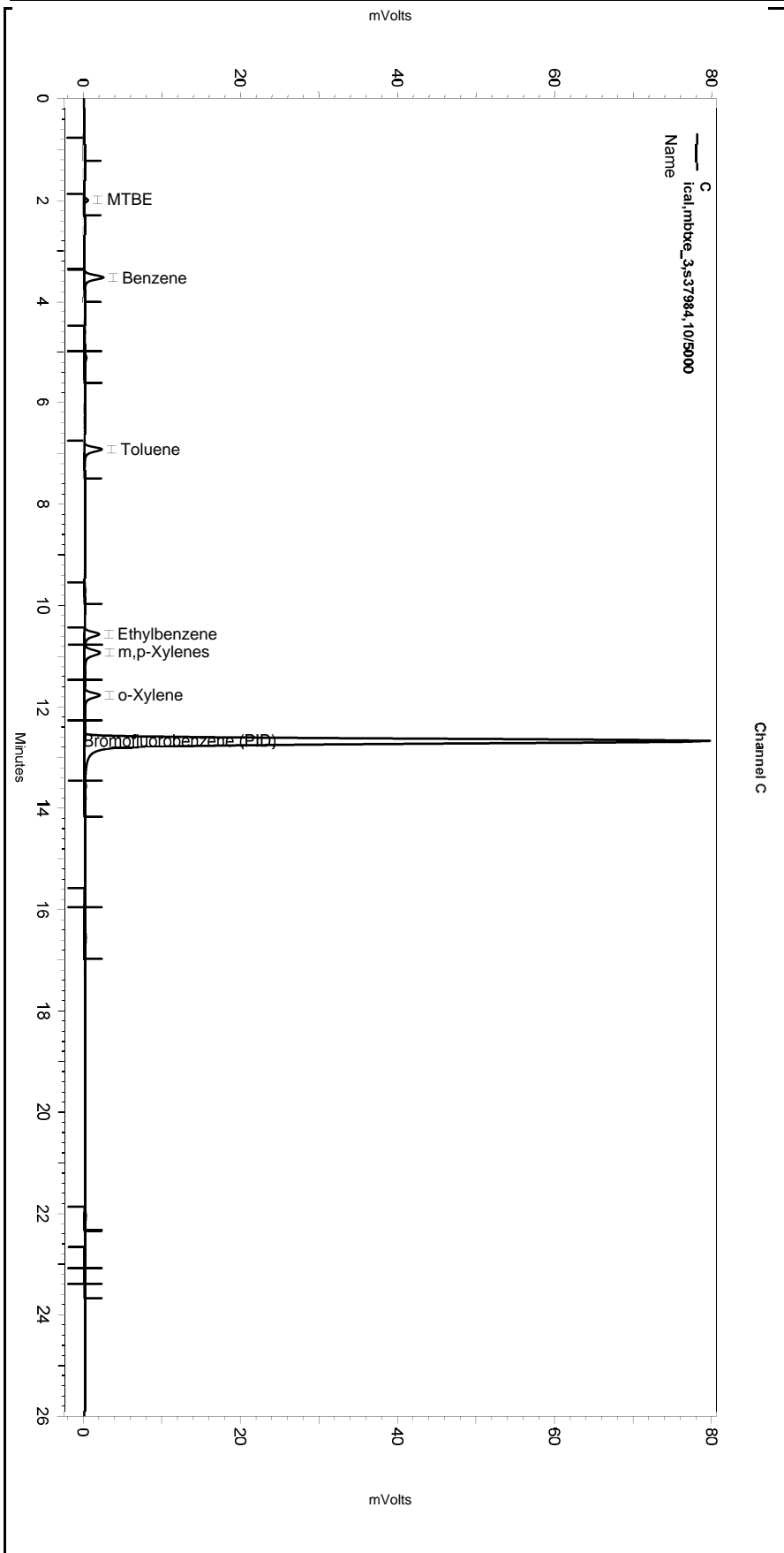
=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtXe_3,s37984,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 4:54:52 AM
 Analysis Date: 10/5/2018 12:00:49 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

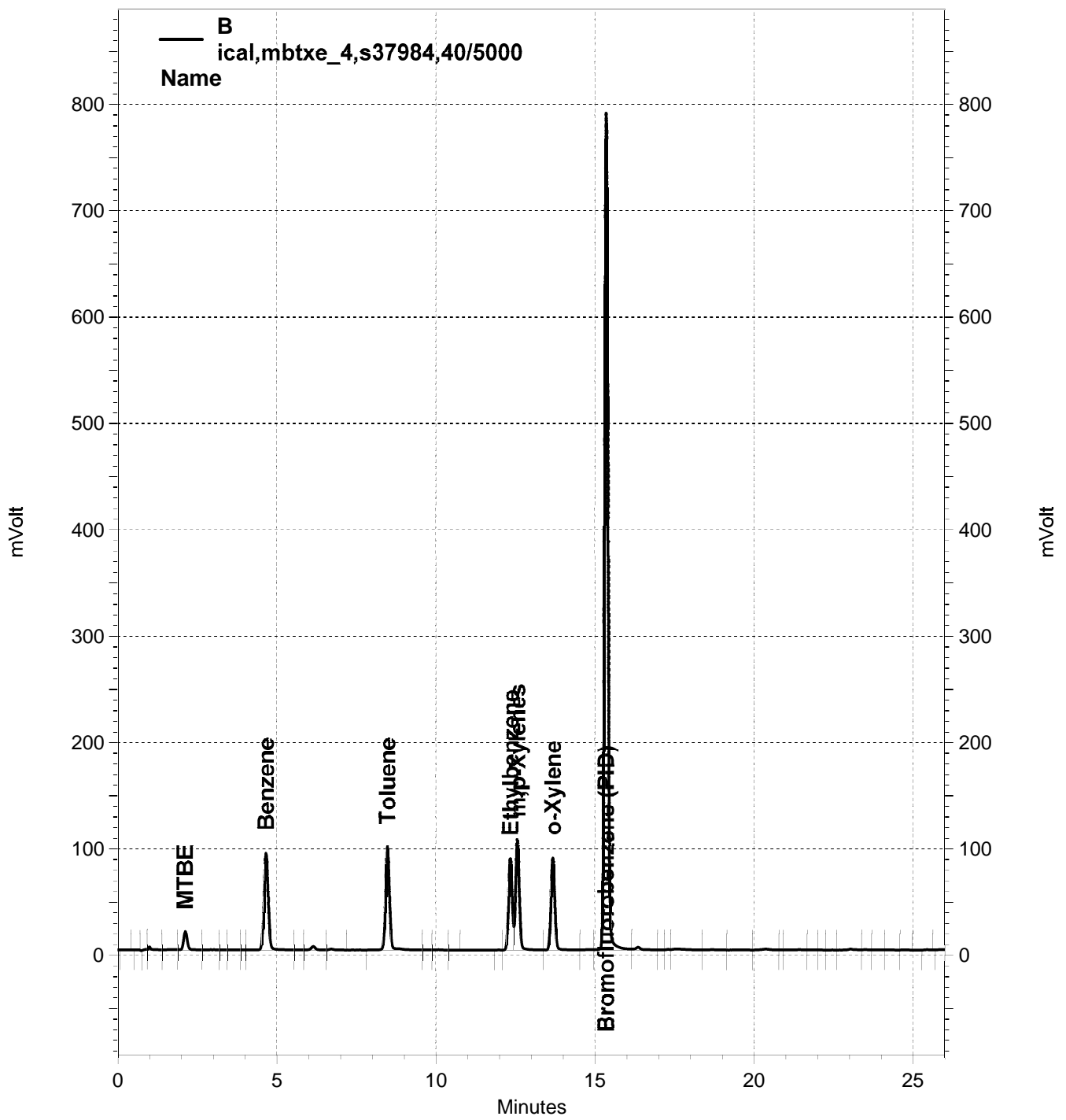
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

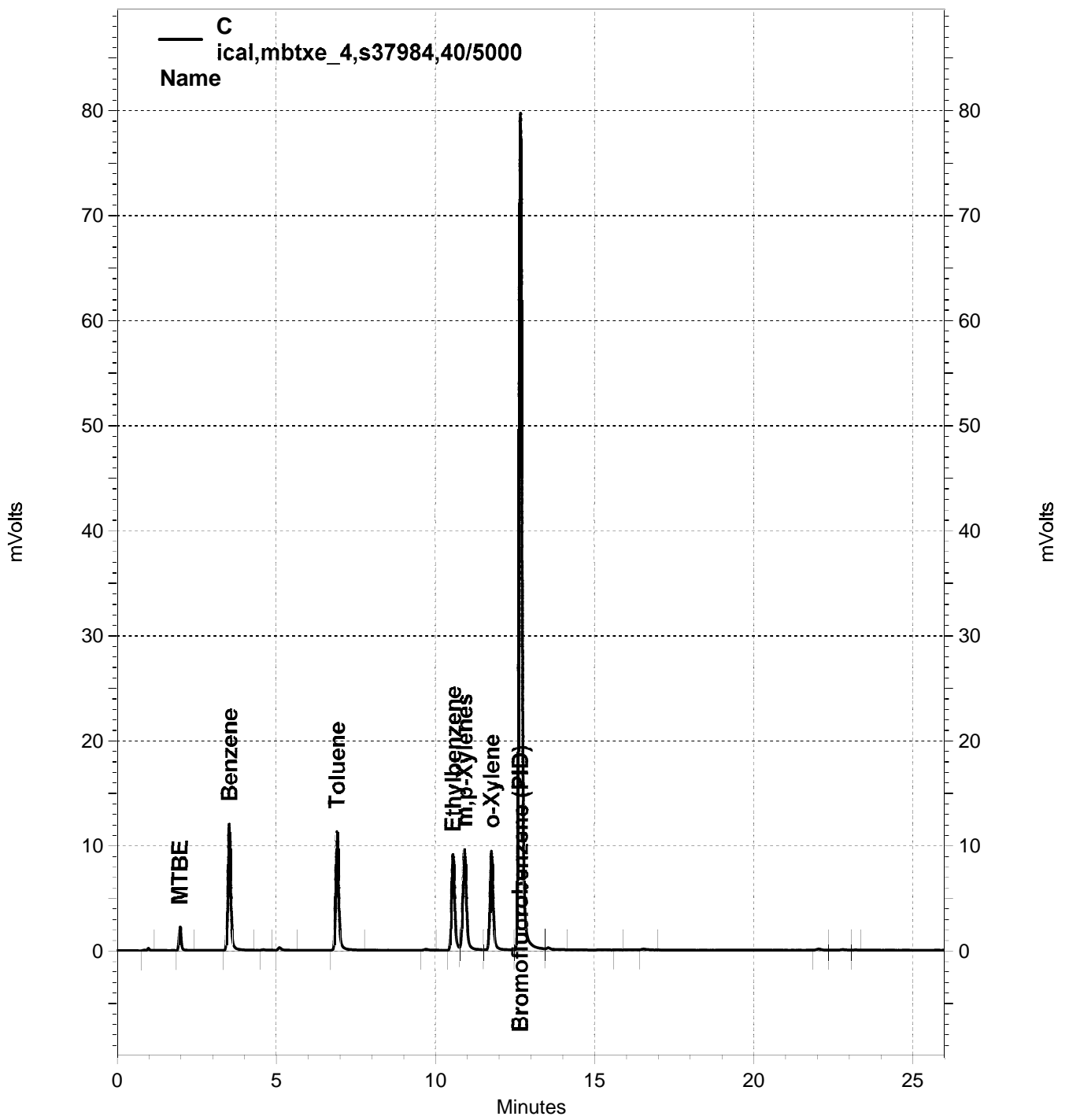
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-029, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-029, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtXe_4,s37984,40/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-029
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtXe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 5:32:59 AM
 Analysis Date: 10/5/2018 12:00:54 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	1870216	0.000 CAL
GAS:6-10			2756631	0.000 CAL
GAS:6-12			2854769	0.000 CAL
GAS:7-12			2815275	0.000 CAL
JP4:7-12			2815275	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	156794	100.000 CAL
Benzene	4.667	4.667	859630	100.000 CAL
Toluene	8.483	8.483	848193	100.000 CAL
Ethylbenzene	12.350	12.350	683202	100.000 CAL
m,p-Xylenes	12.567	12.567	857808	100.000 CAL
o-Xylene	13.683	13.683	722646	100.000 CAL
Bromofluorobenzene (PID)	15.350	15.350	5722860	900.000 CAL

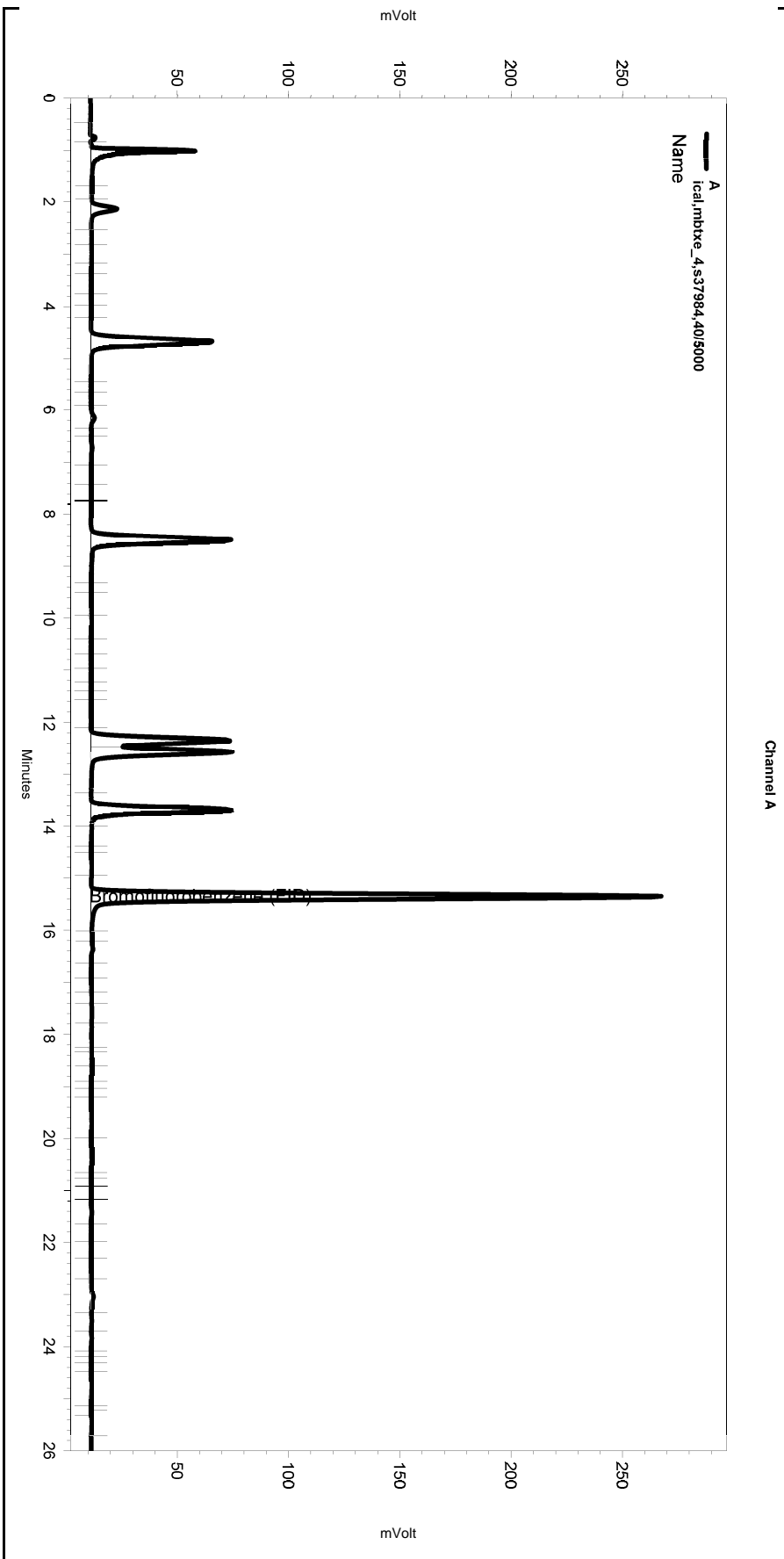
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	11851	100.000 CAL
Benzene	3.533	3.533	78144	100.000 CAL
Toluene	6.916	6.916	78394	100.000 CAL
Ethylbenzene	10.566	10.566	63860	100.000 CAL
m,p-Xylenes	10.916	10.916	79898	100.000 CAL
o-Xylene	11.766	11.766	70064	100.000 CAL
Bromofluorobenzene (PID)	12.666	12.666	552132	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtxe_4,s37984,40/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-029
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 5:32:59 AM
 Analysis Date: 10/5/2018 12:00:54 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

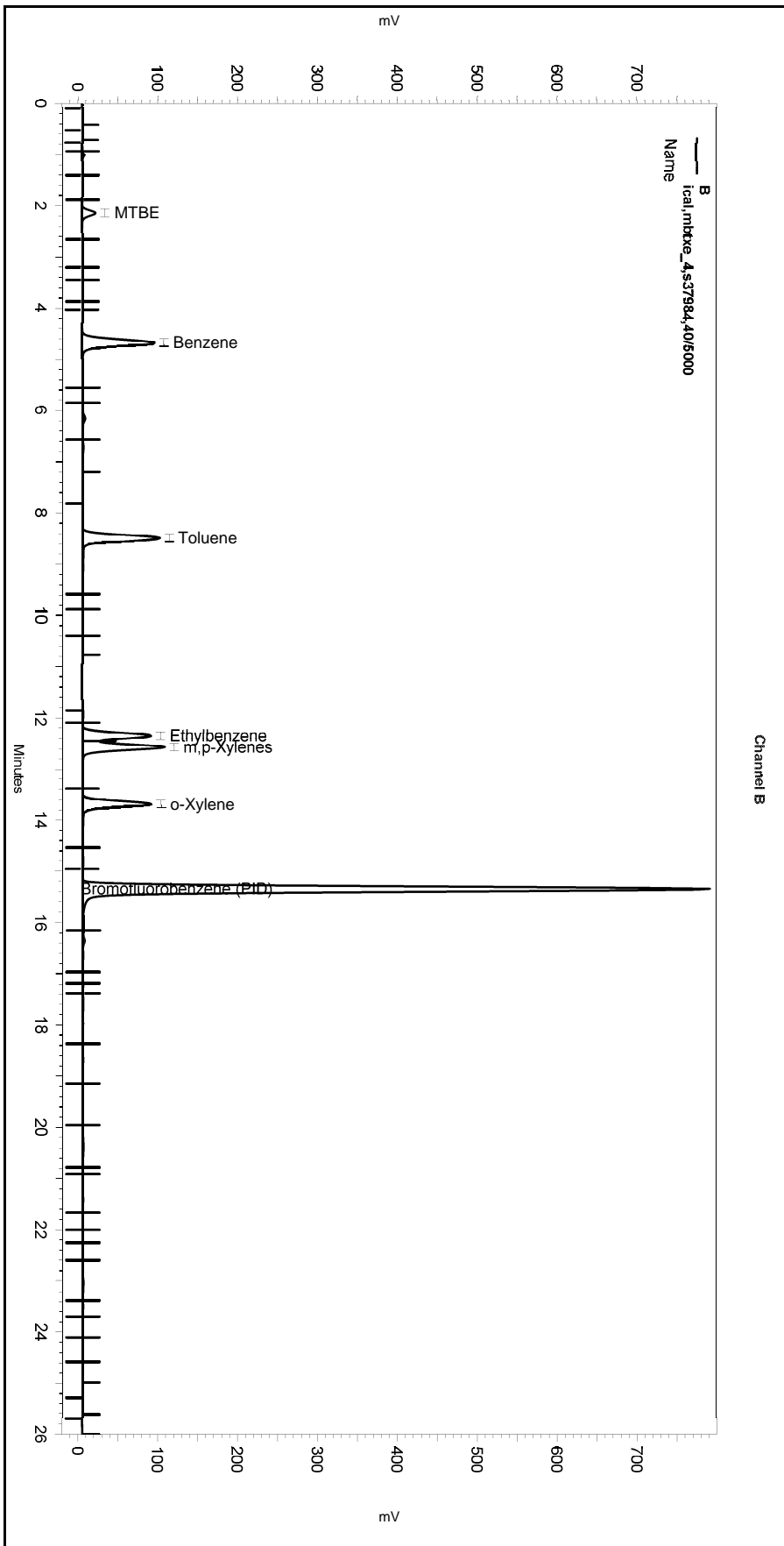
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtixe_4,s37984,40/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-029
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 5:32:59 AM
 Analysis Date: 10/5/2018 12:00:54 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

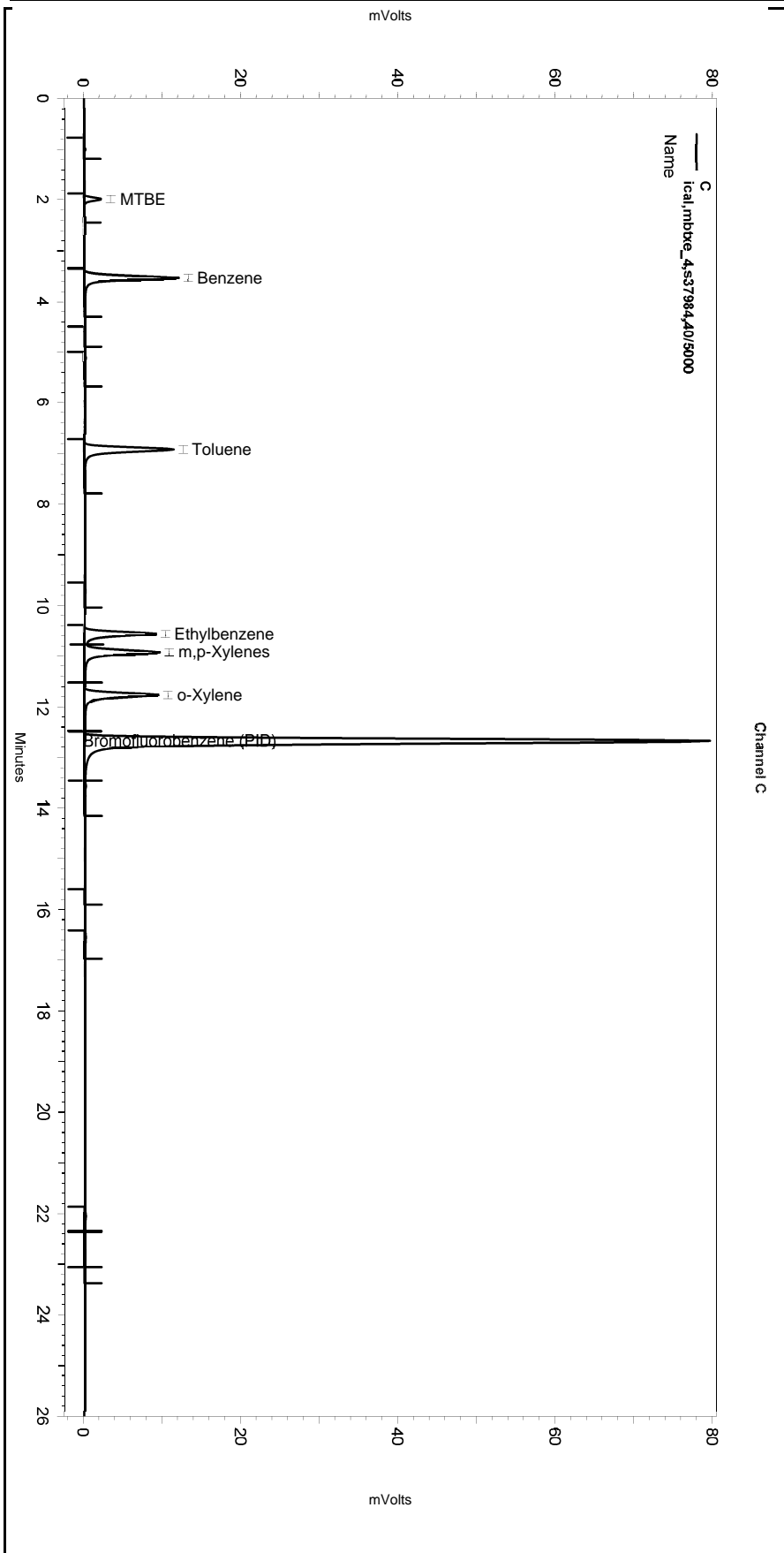
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtXe_4,s37984,40/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-029
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 5:32:59 AM
 Analysis Date: 10/5/2018 12:00:54 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

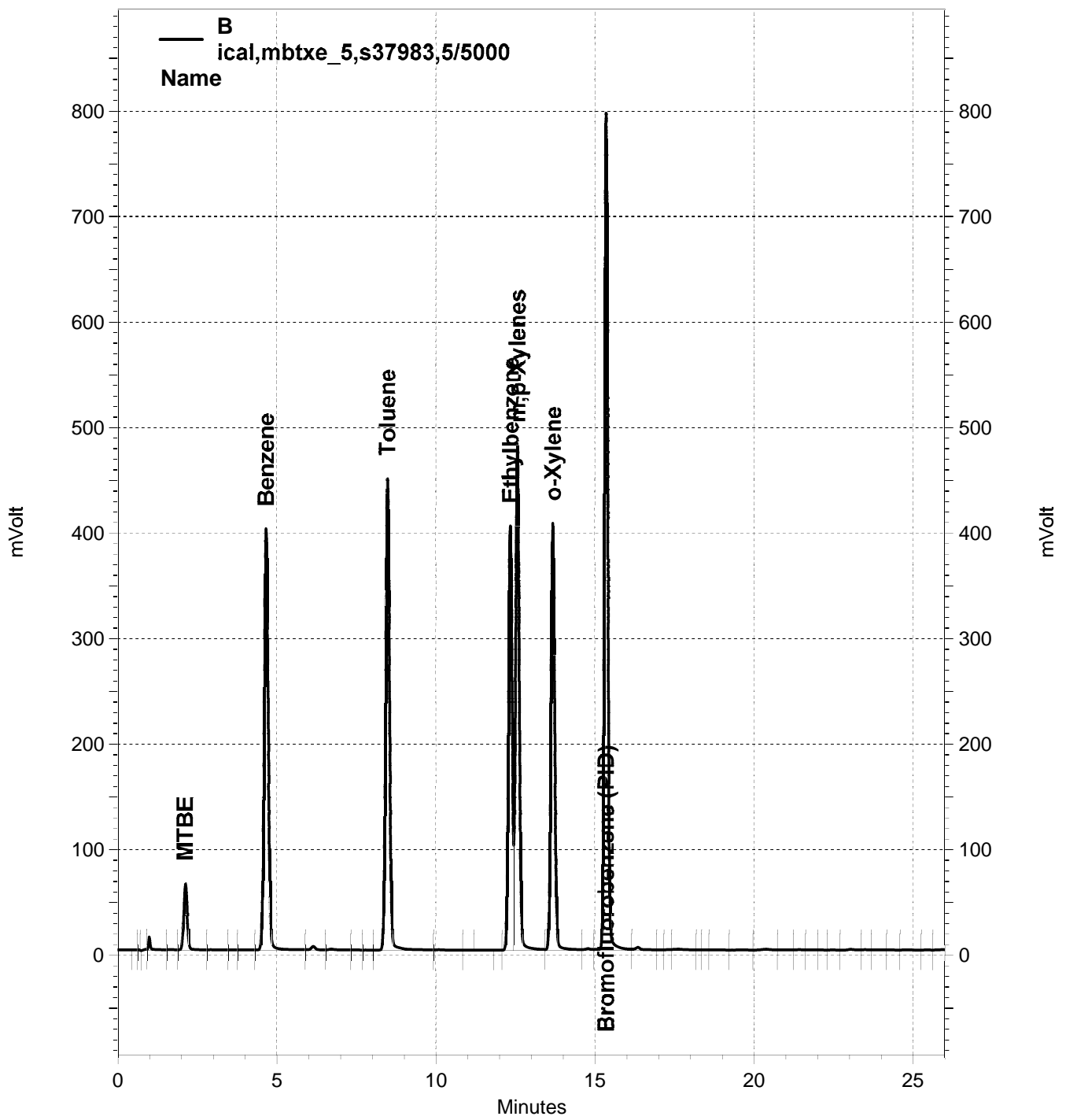
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

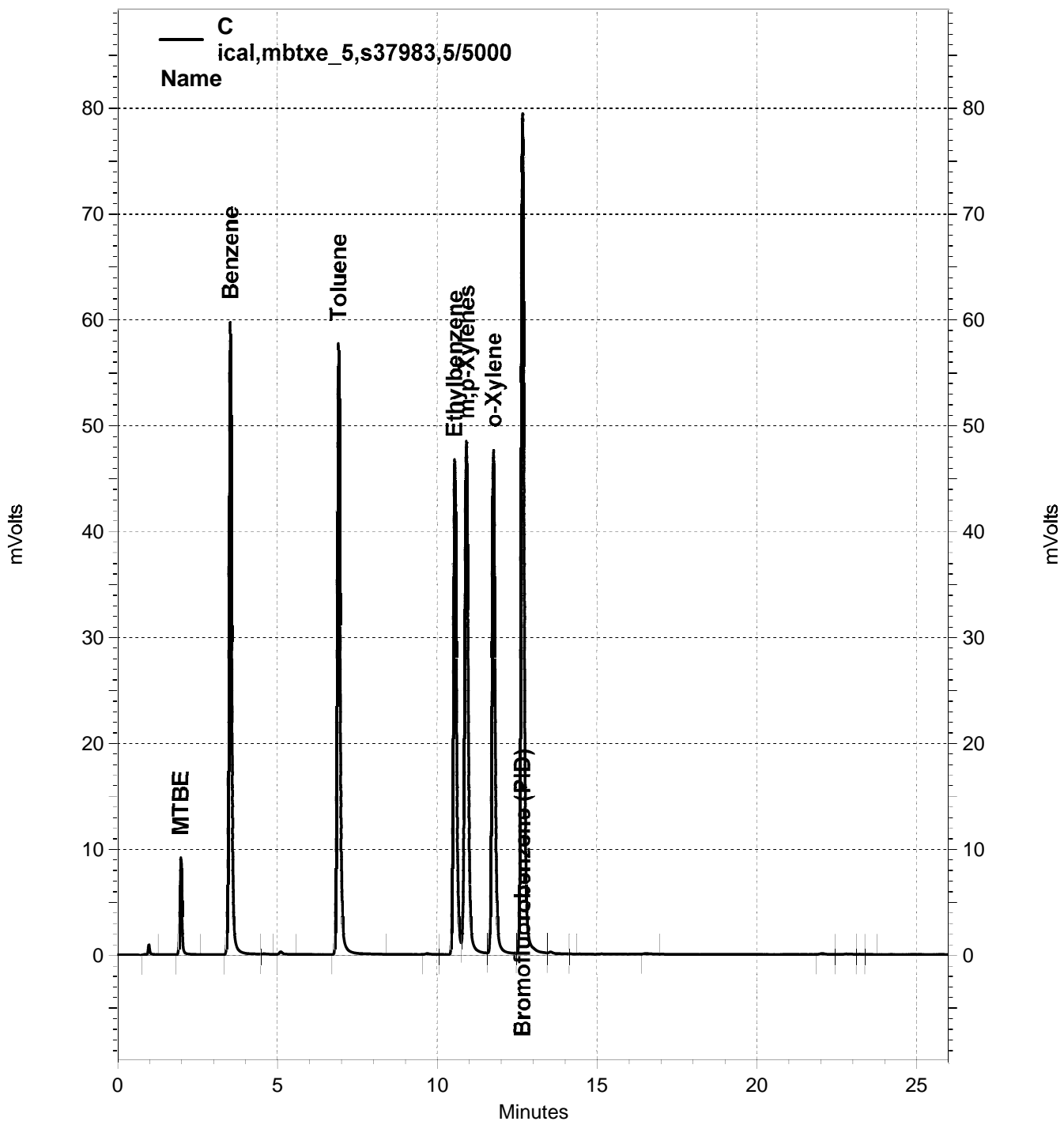
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-030, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-030, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtXe_5,s37983,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-030
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtXe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 6:11:11 AM
 Analysis Date: 10/5/2018 12:00:59 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	1845008	0.000 CAL
GAS:6-10			11807838	0.000 CAL
GAS:6-12			11896880	0.000 CAL
GAS:7-12			11874174	0.000 CAL
JP4:7-12			11874174	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	514470	500.000 CAL
Benzene	4.667	4.667	3657114	500.000 CAL
Toluene	8.483	8.483	3870410	500.000 CAL
Ethylbenzene	12.350	12.350	3198622	500.000 CAL
m,p-Xylenes	12.567	12.567	3934430	500.000 CAL
o-Xylene	13.683	13.683	3381514	500.000 CAL
Bromofluorobenzene (PID)	15.350	15.350	5764498	900.000 CAL

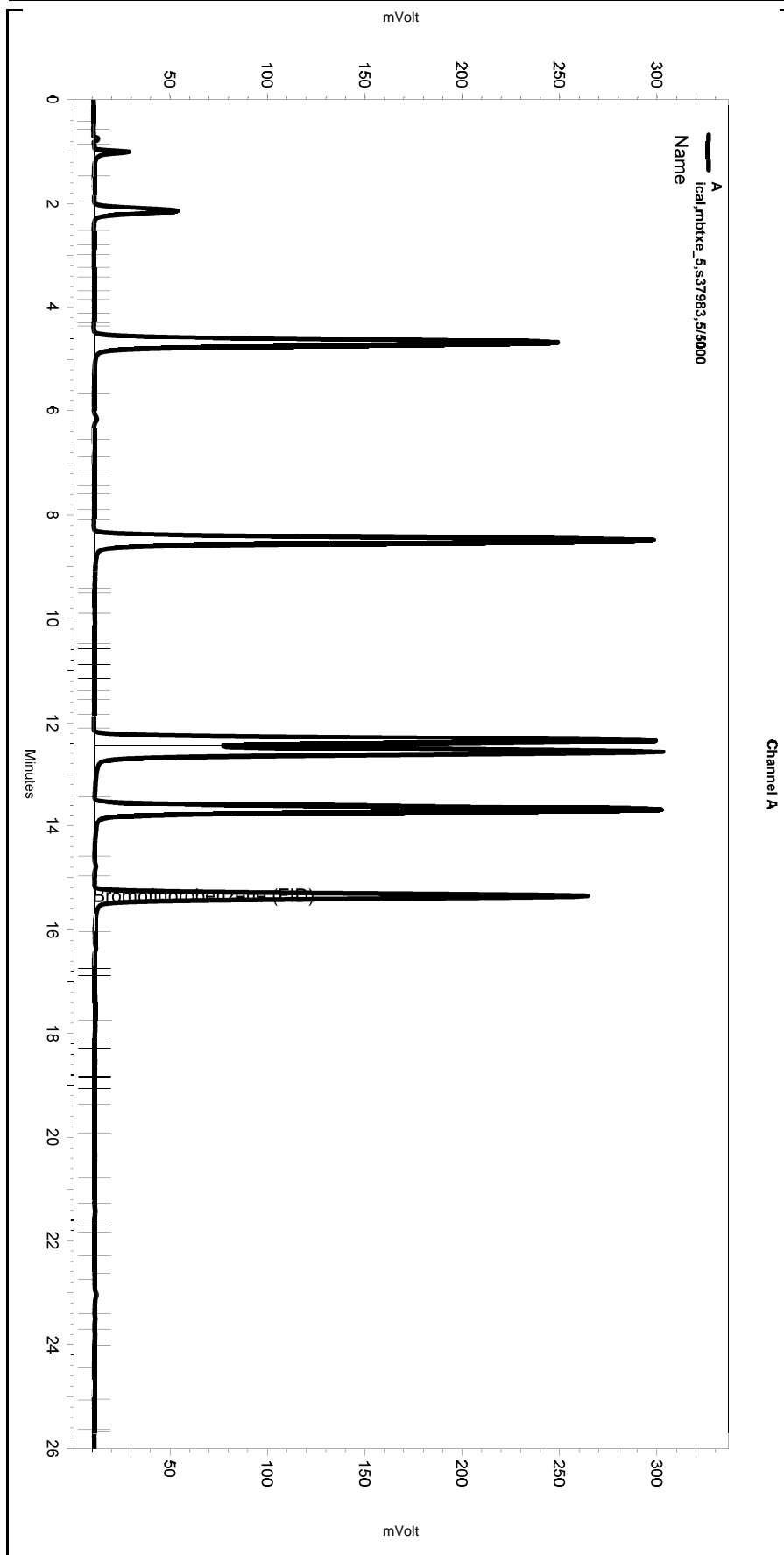
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	43951	500.000 CAL
Benzene	3.533	3.533	360125	500.000 CAL
Toluene	6.916	6.916	383923	500.000 CAL
Ethylbenzene	10.549	10.566	320945	500.000 CAL
m,p-Xylenes	10.916	10.916	384381	500.000 CAL
o-Xylene	11.766	11.766	335499	500.000 CAL
Bromofluorobenzene (PID)	12.666	12.666	548592	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtxe_5,s37983,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-030
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 6:11:11 AM
 Analysis Date: 10/5/2018 12:00:59 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

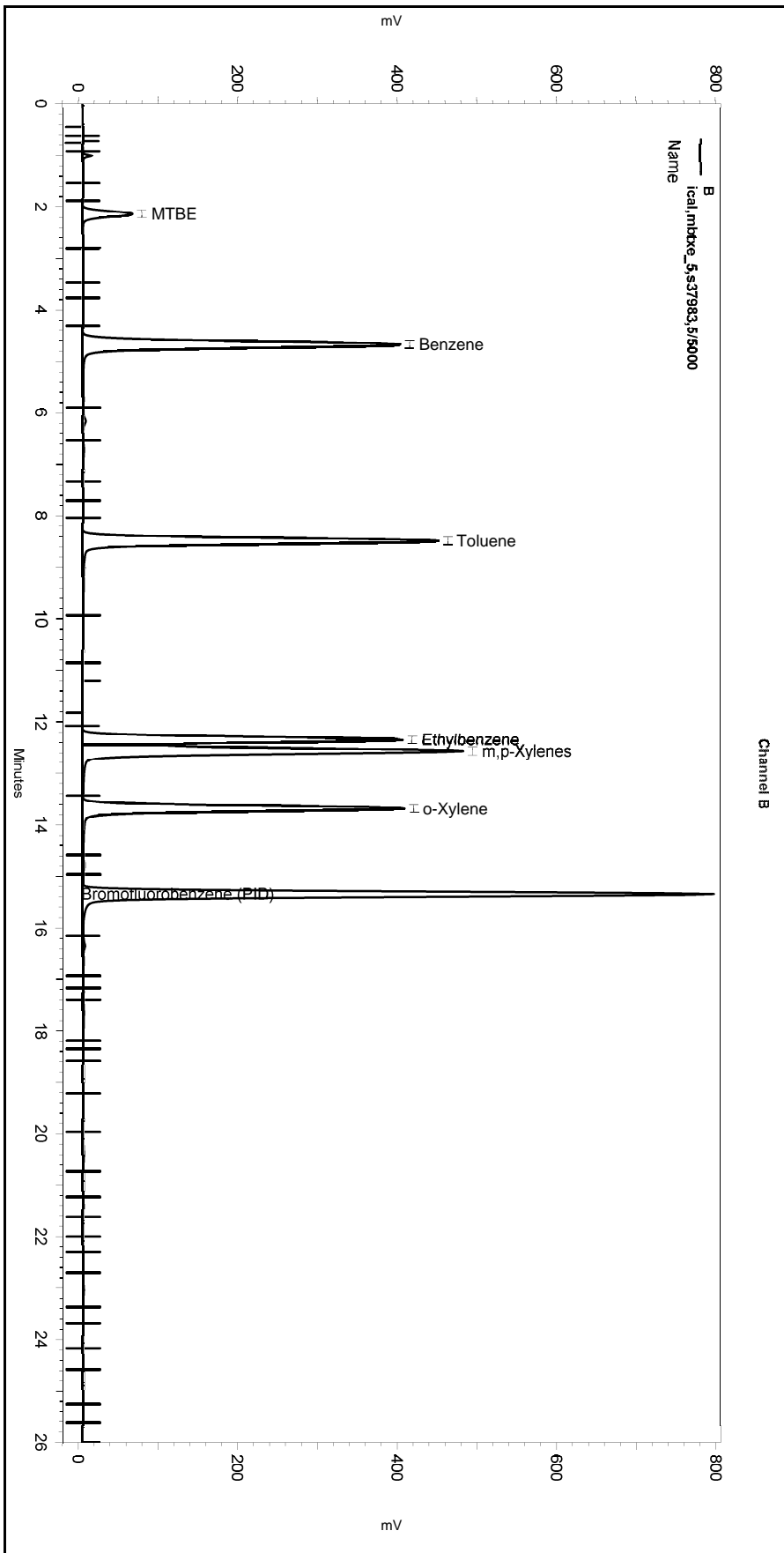
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

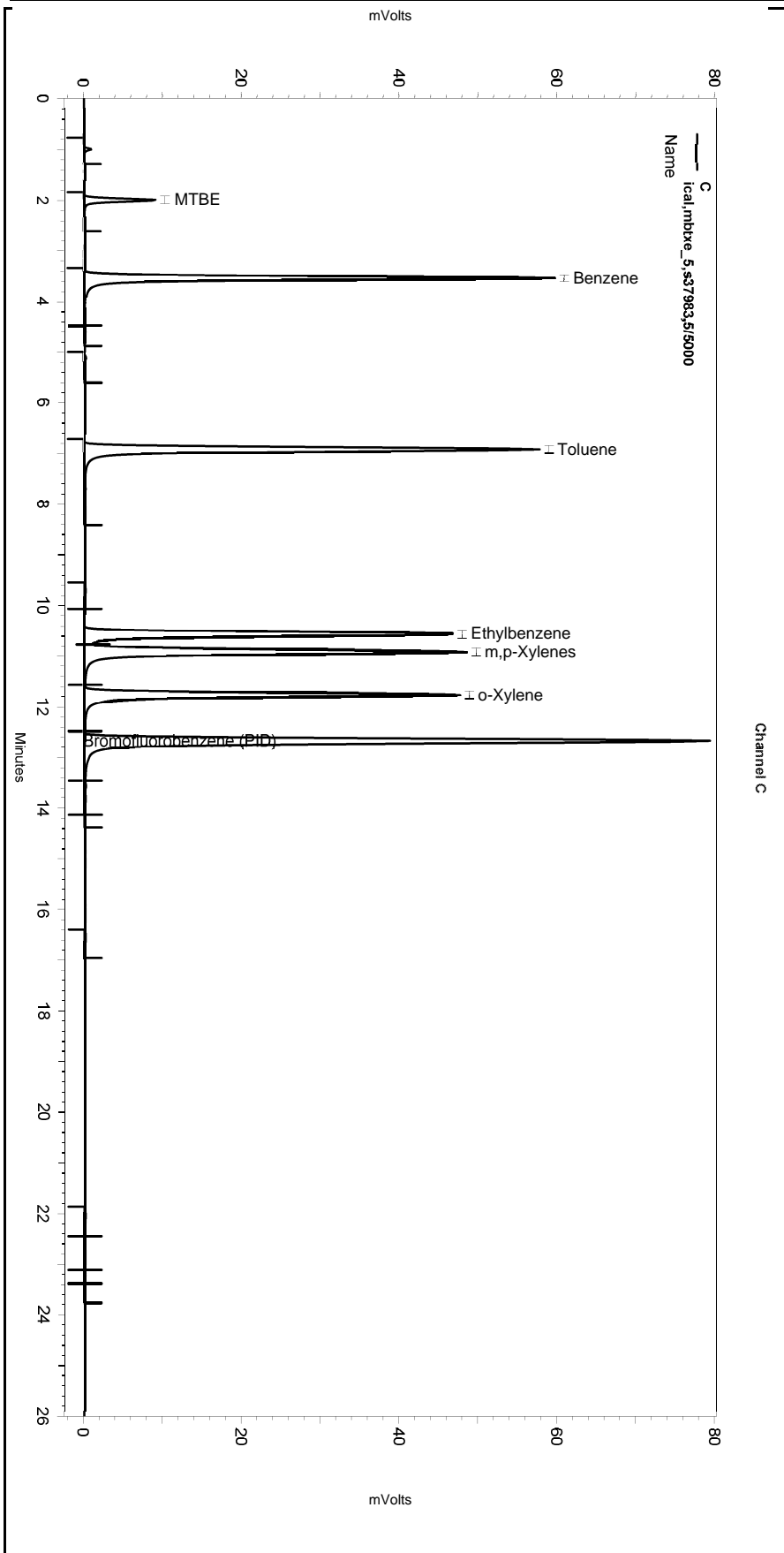
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbt_xe_5,s37983,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-030
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 6:11:11 AM
 Analysis Date: 10/5/2018 12:00:59 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

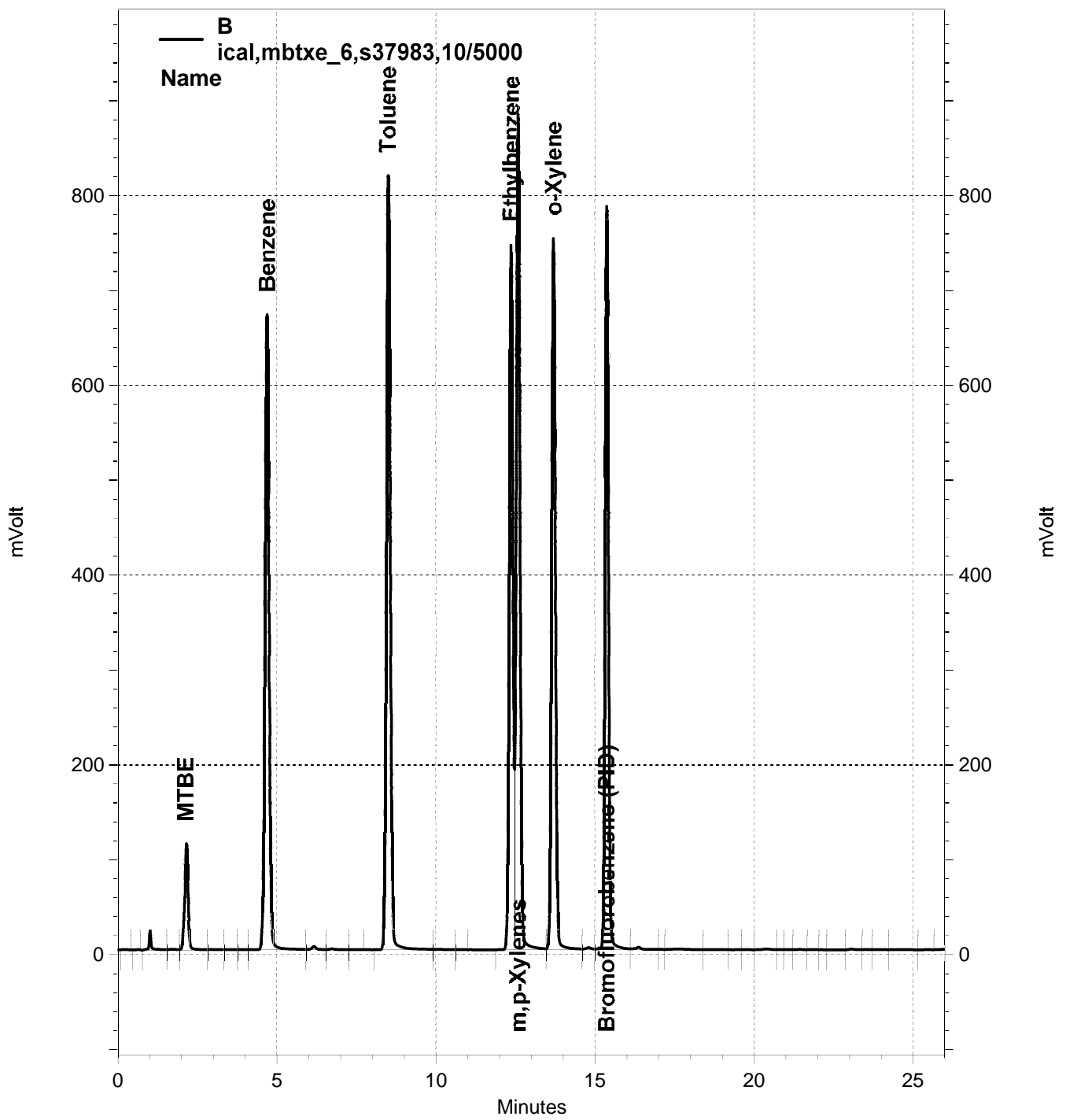
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

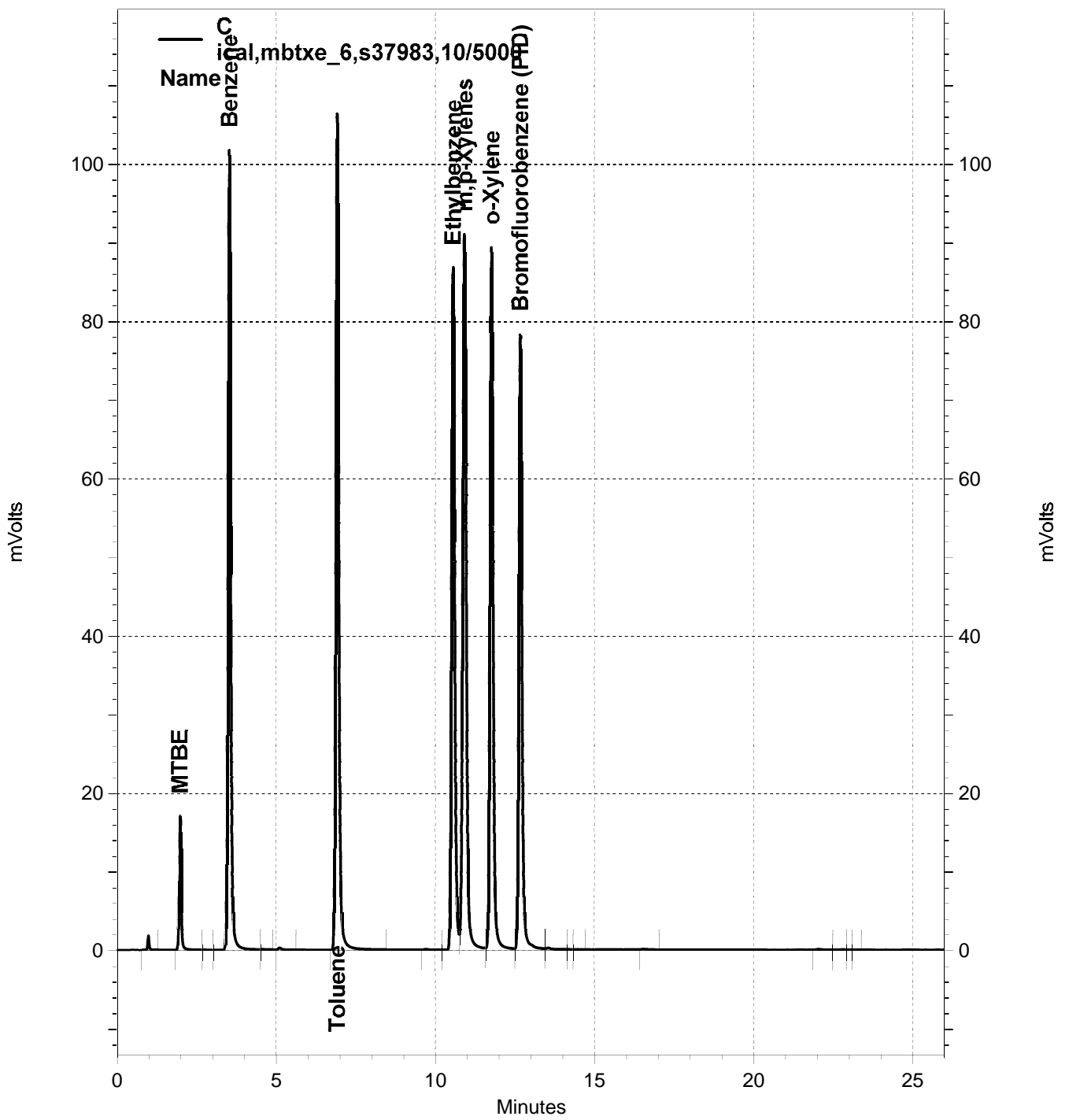
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-031, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-031, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbt_xe_6,s37983,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-031
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbt_xe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 6:49:32 AM
 Analysis Date: 10/5/2018 12:01:03 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.383	1830855	0.000 CAL
GAS:6-10			21356568	0.000 CAL
GAS:6-12			21463004	0.000 CAL
GAS:7-12			21458076	0.000 CAL
JP4:7-12			21458076	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

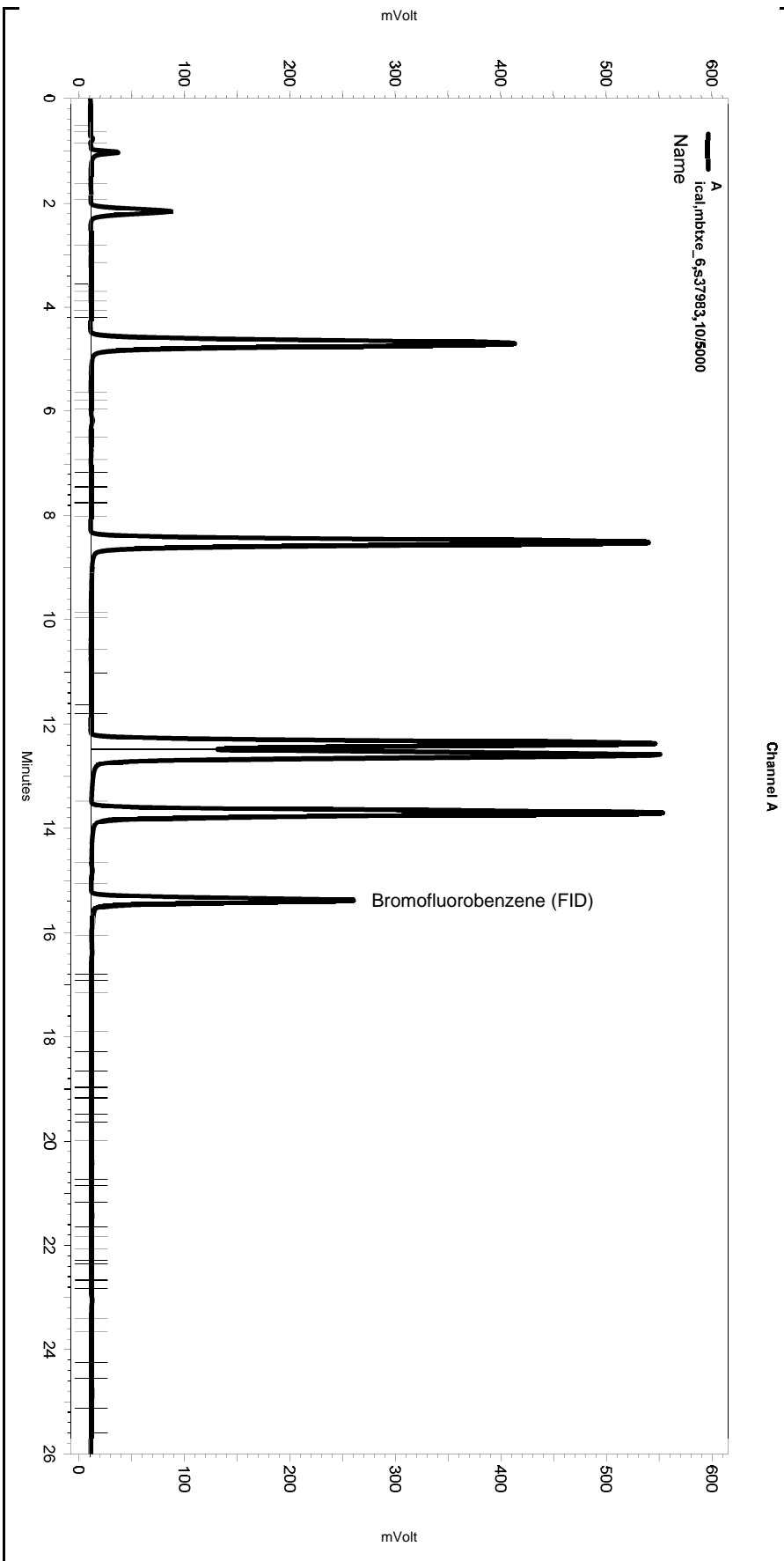
B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.150	2.133	878009	1000.000 CAL
Benzene	4.700	4.667	6095247	1000.000 CAL
Toluene	8.500	8.483	7053290	1000.000 CAL
Ethylbenzene	12.367	12.350	6041850	1000.000 CAL
m,p-Xylenes	12.583	12.567	7085823	1000.000 CAL
o-Xylene	13.700	13.683	6209898	1000.000 CAL
Bromofluorobenzene (PID)	15.367	15.350	5725476	900.000 CAL

Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	80099	1000.000 CAL
Benzene	3.533	3.533	611511	1000.000 CAL
Toluene	6.916	6.916	713773	1000.000 CAL
Ethylbenzene	10.566	10.566	600500	1000.000 CAL
m,p-Xylenes	10.916	10.916	716571	1000.000 CAL
o-Xylene	11.766	11.766	623637	1000.000 CAL
Bromofluorobenzene (PID)	12.666	12.666	543578	900.000 CAL



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

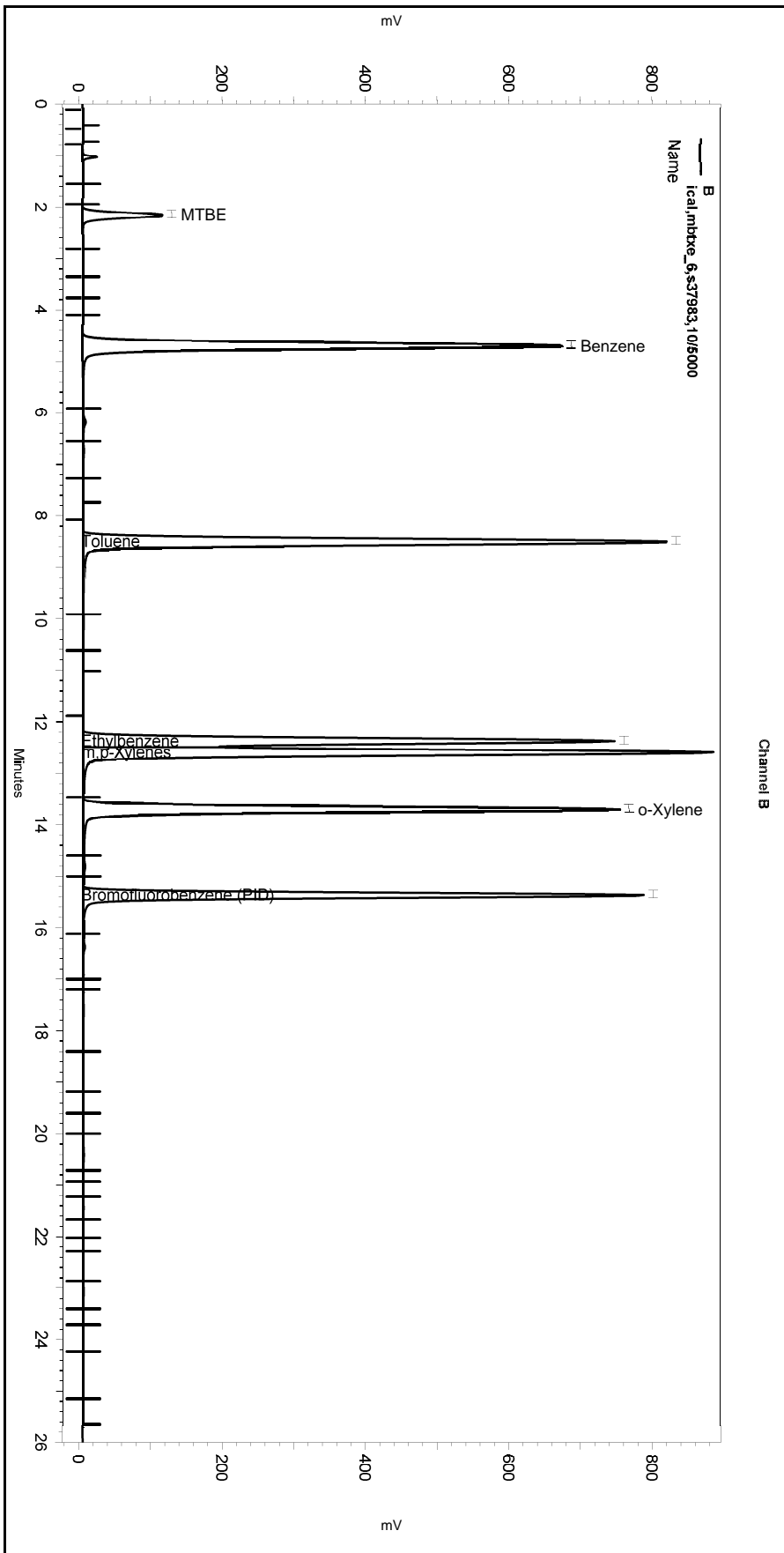
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

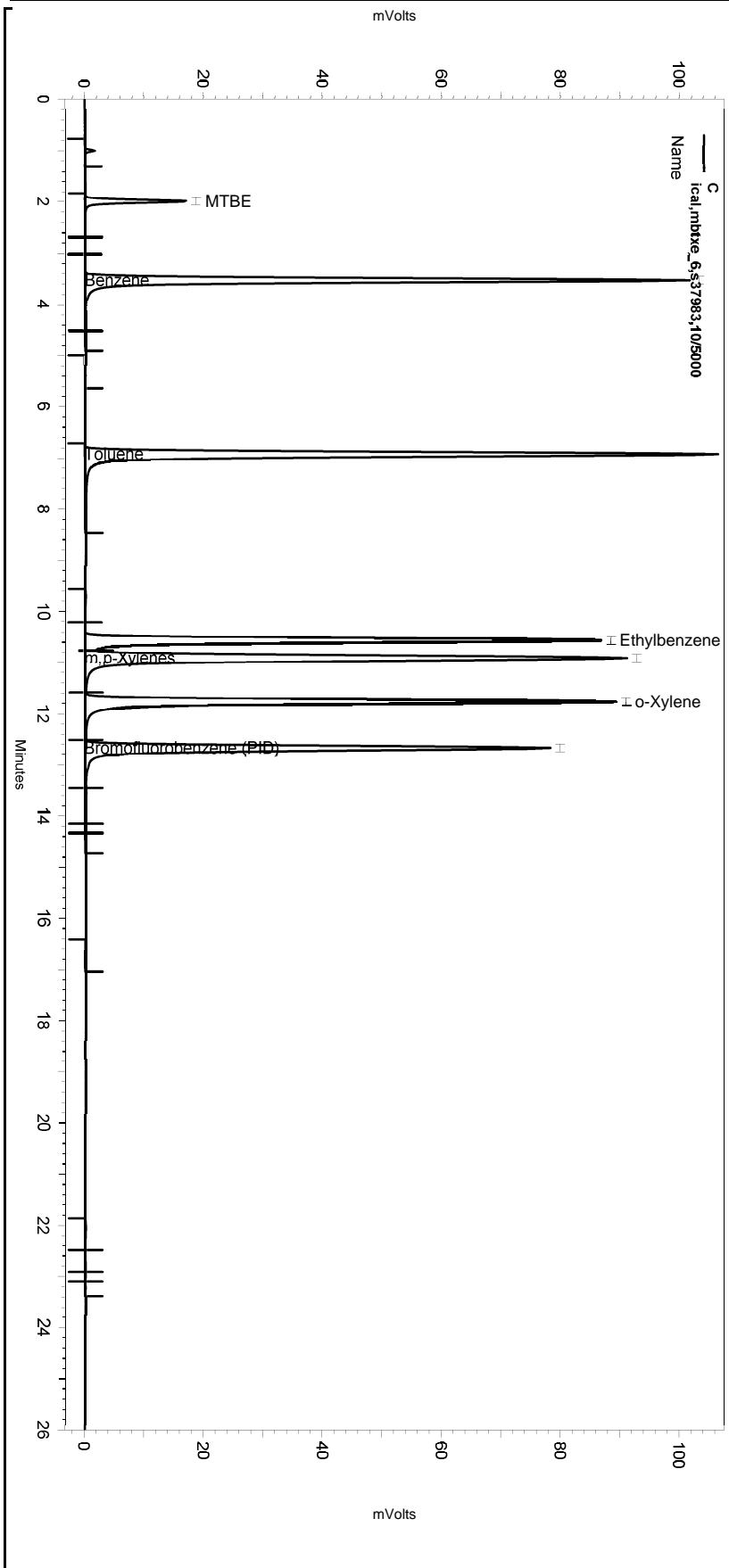
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtxe_6,s37983,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-031
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 6:49:32 AM
 Analysis Date: 10/5/2018 12:01:03 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

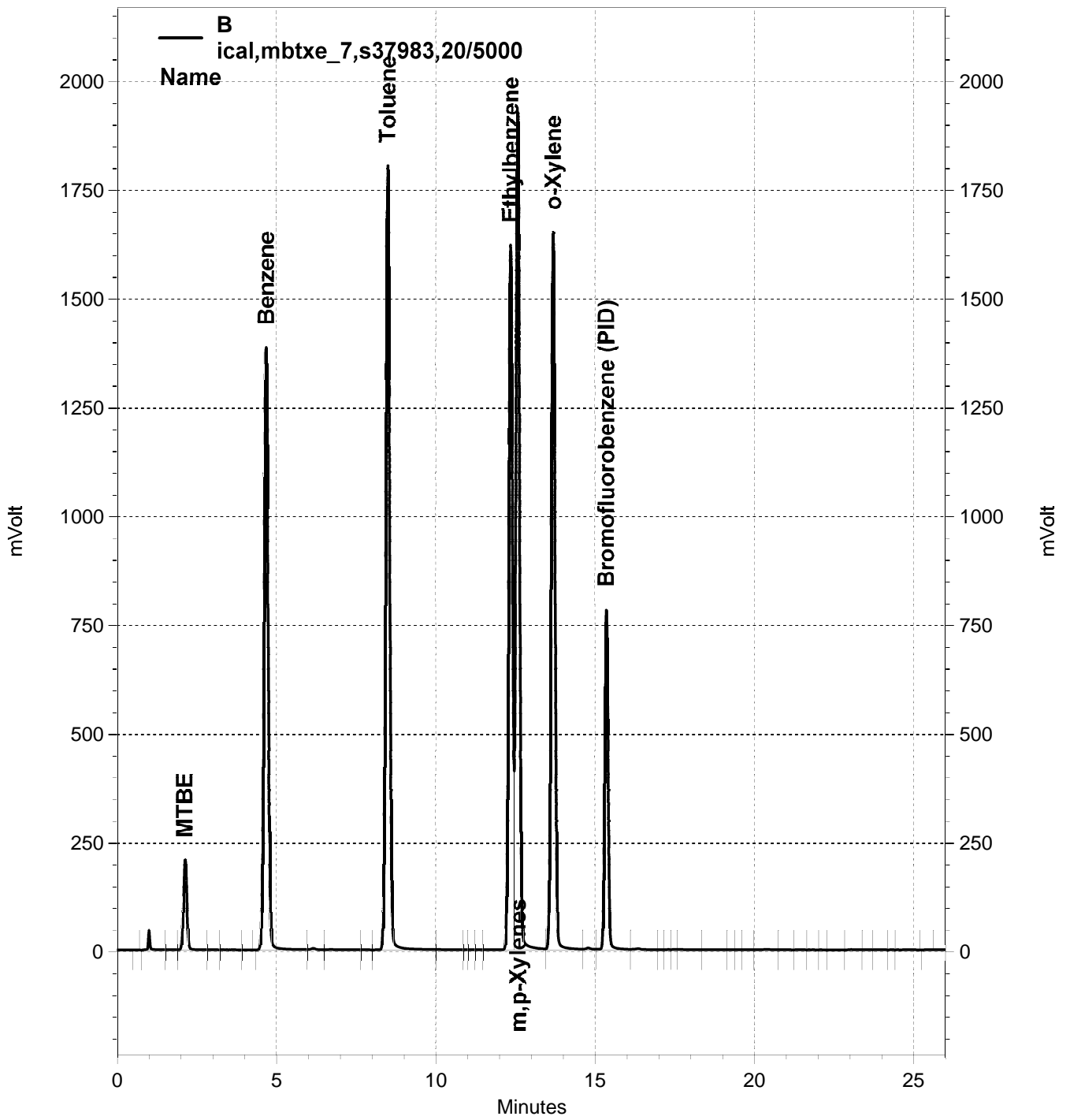
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

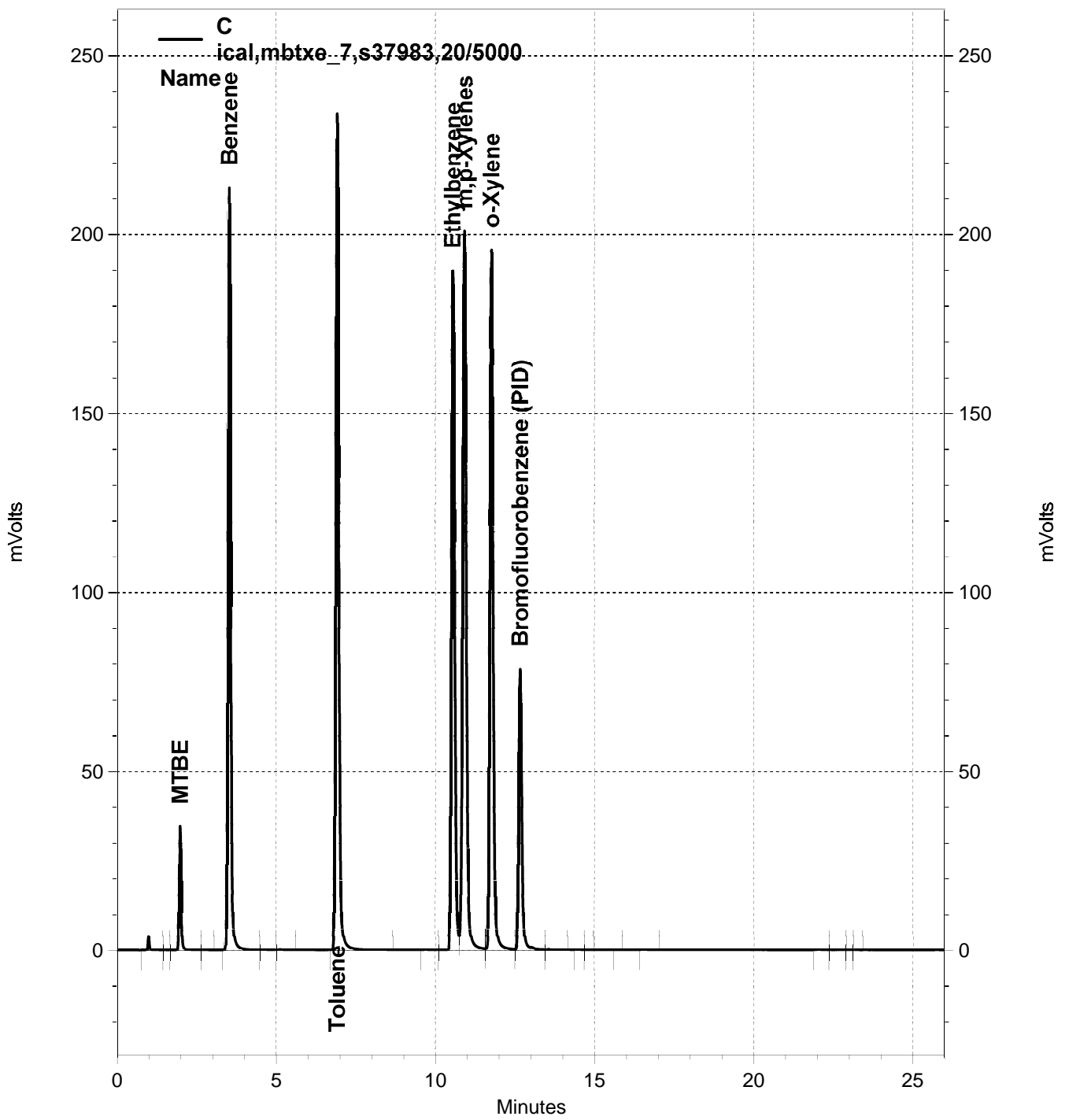
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-032, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-032, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtXe_7,s37983,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-032
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtXe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 7:27:23 AM
 Analysis Date: 10/5/2018 12:01:08 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1839006	0.000 CAL
GAS:6-10			47117180	0.000 CAL
GAS:6-12			47258652	0.000 CAL
GAS:7-12			47231036	0.000 CAL
JP4:7-12			47231036	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	1580905	2000.000 CAL
Benzene	4.683	4.667	12375994	2000.000 CAL
Toluene	8.500	8.483	15540815	2000.000 CAL
Ethylbenzene	12.350	12.350	13235101	2000.000 CAL
m,p-Xylenes	12.583	12.567	15661050	2000.000 CAL
o-Xylene	13.683	13.683	13667657	2000.000 CAL
Bromofluorobenzene (PID)	15.350	15.350	5737418	900.000 CAL

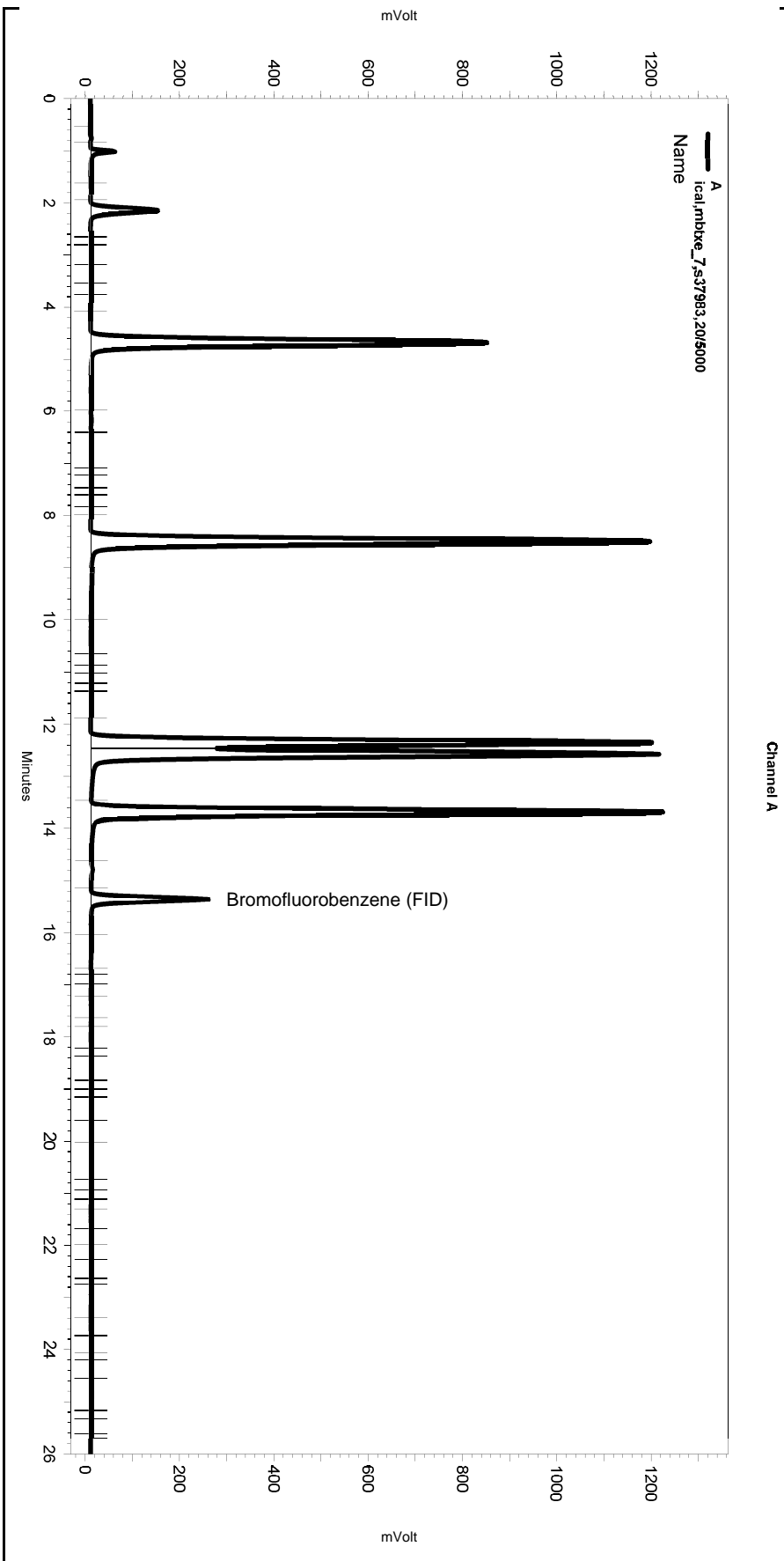
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	150887	2000.000 CAL
Benzene	3.533	3.533	1252693	2000.000 CAL
Toluene	6.916	6.916	1576955	2000.000 CAL
Ethylbenzene	10.549	10.566	1327118	2000.000 CAL
m,p-Xylenes	10.916	10.916	1589679	2000.000 CAL
o-Xylene	11.766	11.766	1376039	2000.000 CAL
Bromofluorobenzene (PID)	12.666	12.666	543102	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtxe_7,s37983,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-032
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 7:27:23 AM
 Analysis Date: 10/5/2018 12:01:08 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

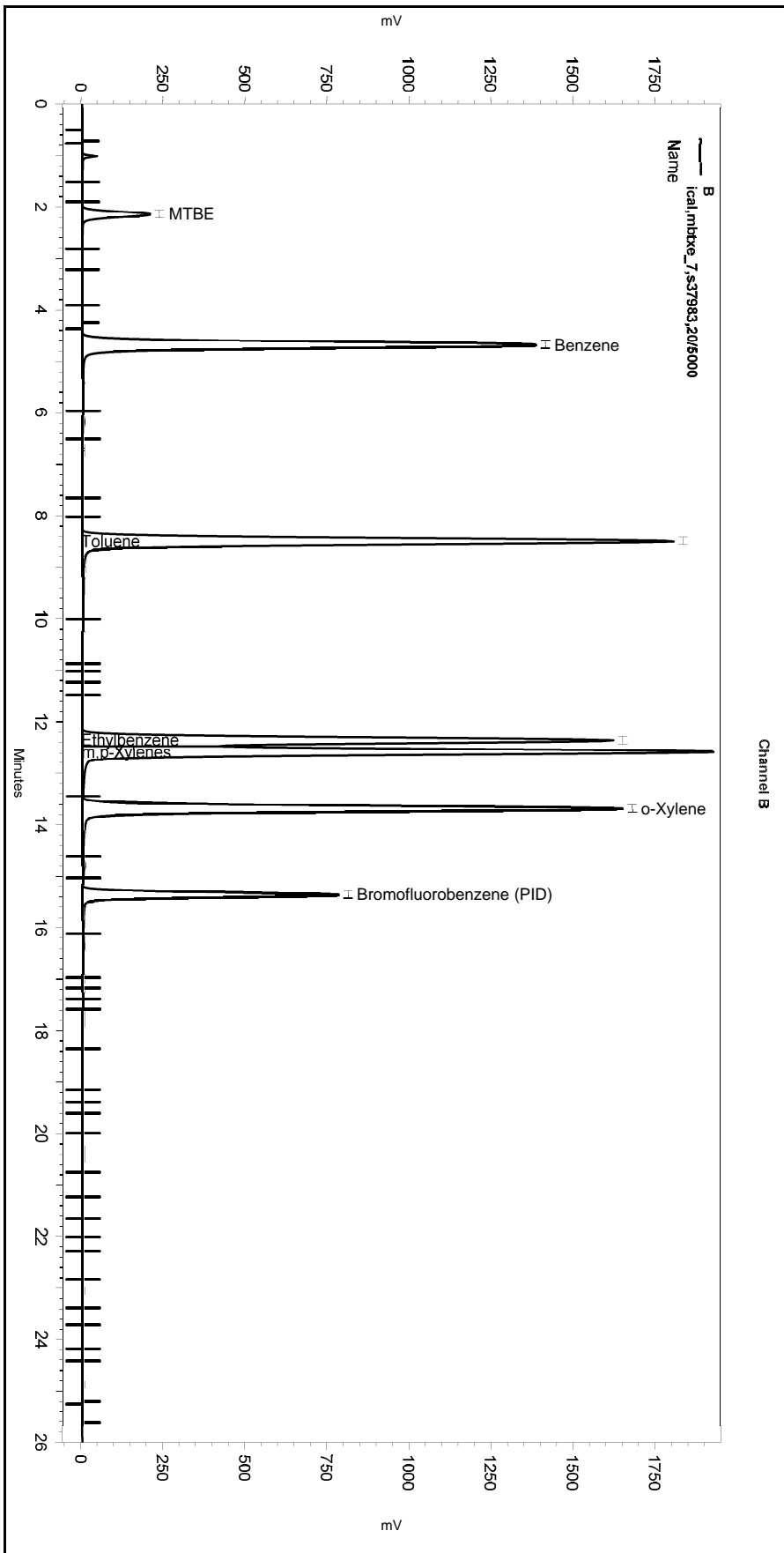
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtixe_7,s37983,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-032
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 7:27:23 AM
 Analysis Date: 10/5/2018 12:01:08 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

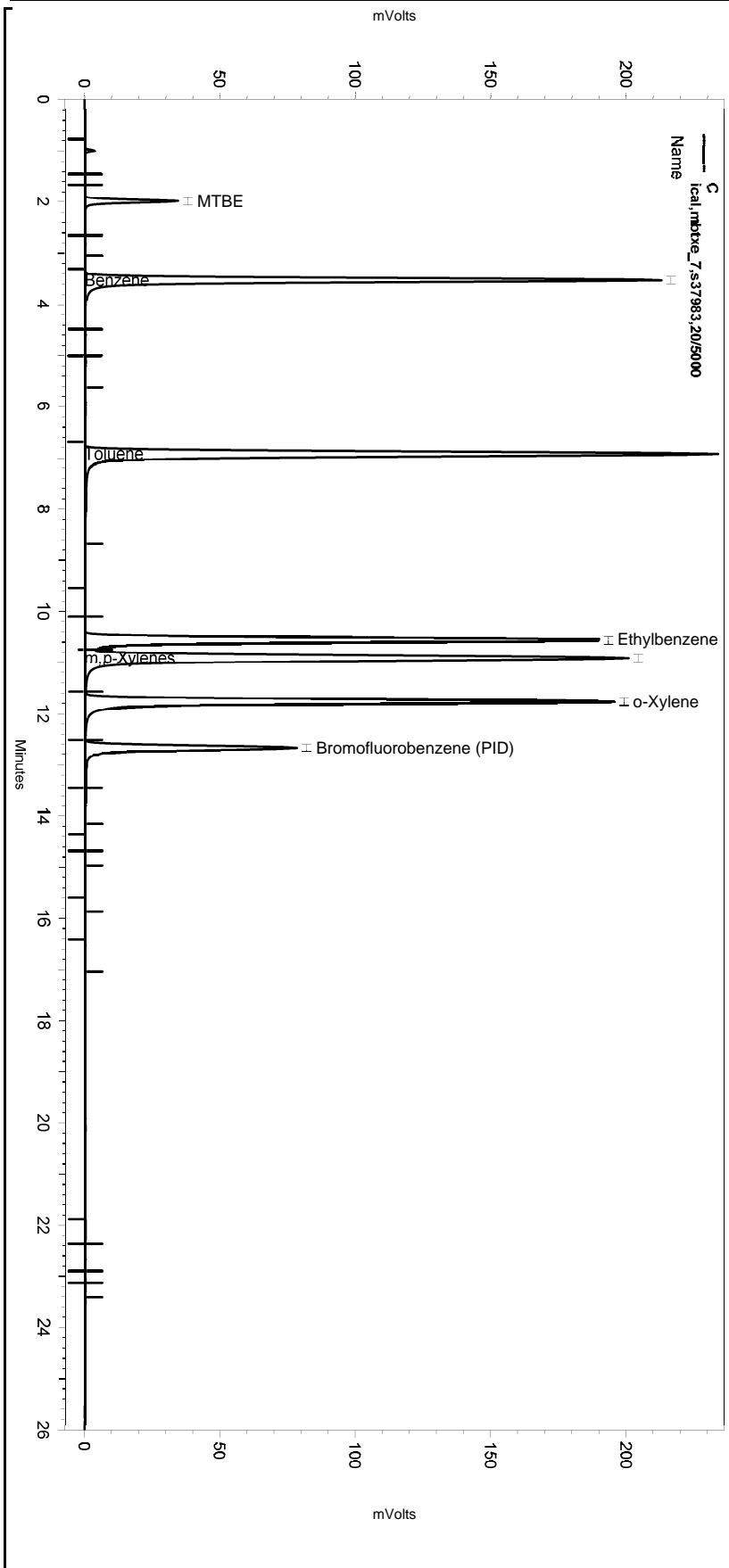
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: ical,mbtXe_7,s37983,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-032
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 7:27:23 AM
 Analysis Date: 10/5/2018 12:01:08 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

---< General Method Parameters >---

No items selected for this section

---< C >---

No items selected for this section

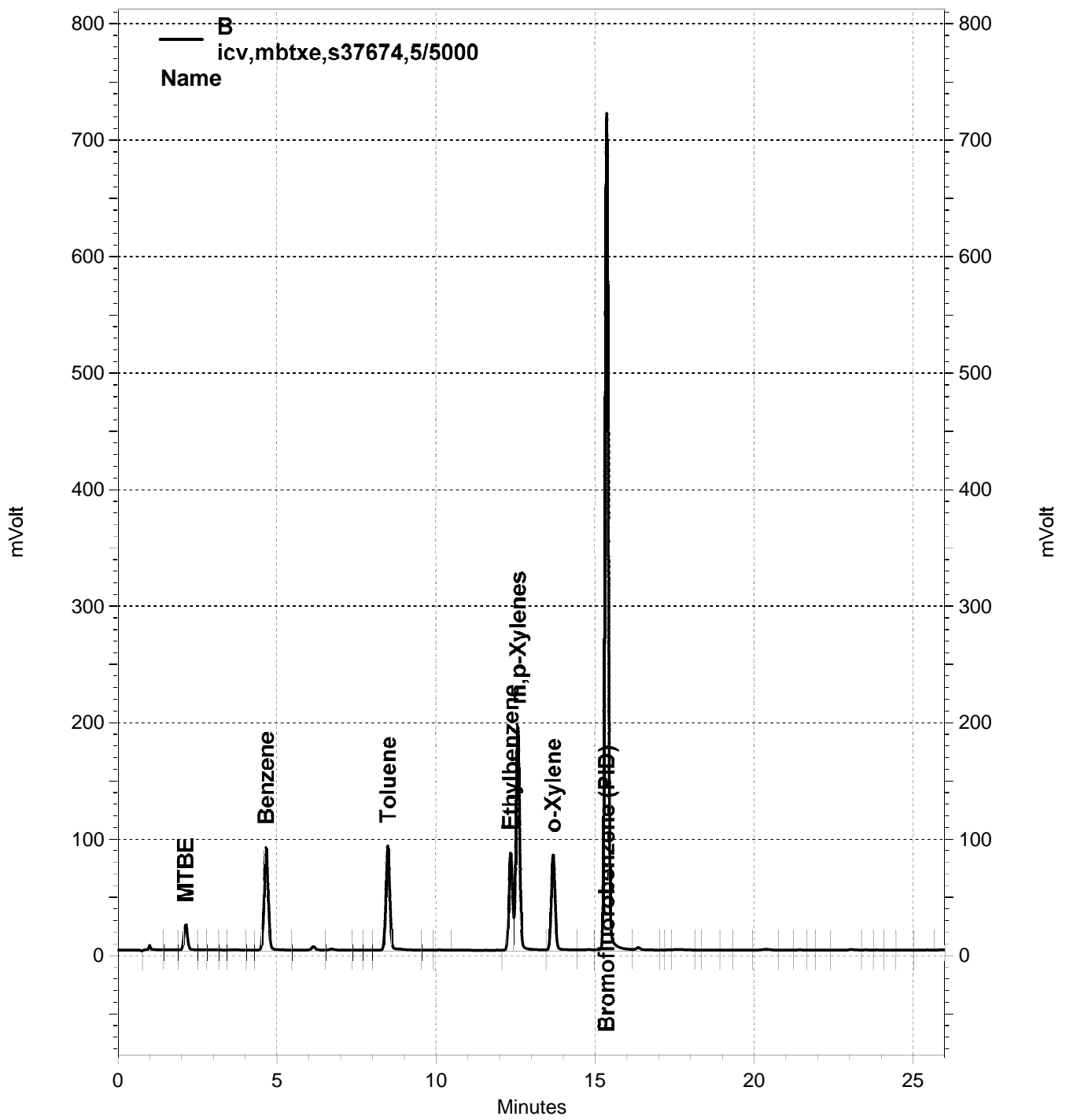
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

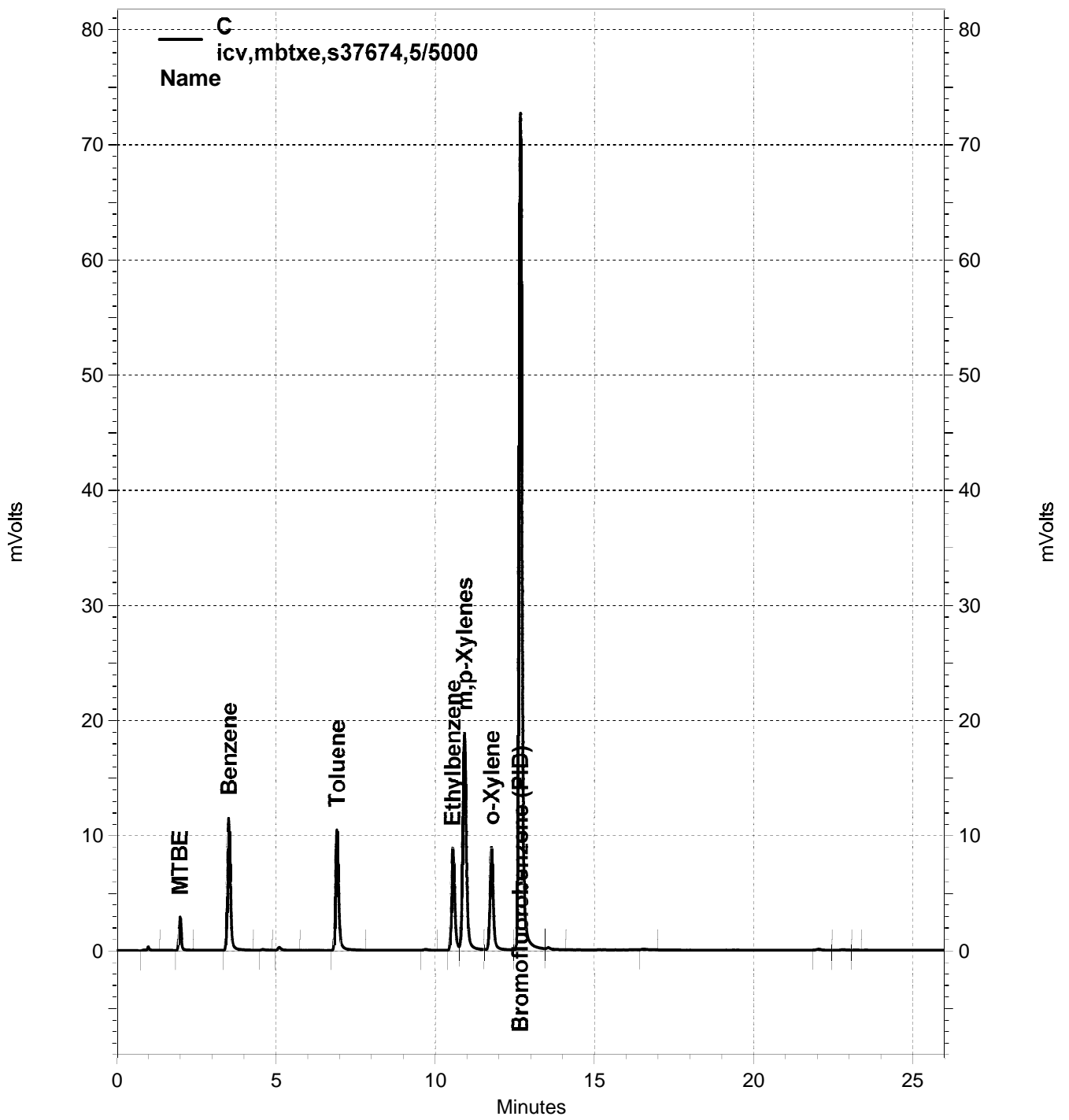
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-034, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\277-034, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
Sample Name: icv,mbtxe,s37674,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-034
Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 8:43:50 AM
Analysis Date: 10/5/2018 2:20:03 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1684973	849.530
GAS:6-10			3009080	1253.452
GAS:6-12			3090739	1102.212
GAS:7-12			3071086	1373.376
JP4:7-12			3071086	819.131

BTX Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.150	2.133	190018	147.917
Benzene	4.667	4.667	841499	106.722
Toluene	8.500	8.483	823276	106.147
Ethylbenzene	12.350	12.350	660431	110.046
m,p-Xylenes	12.583	12.567	1603471	210.070
o-Xylene	13.683	13.683	711067	101.756
Bromofluorobenzene (PID)	15.367	15.350	5224569	822.672

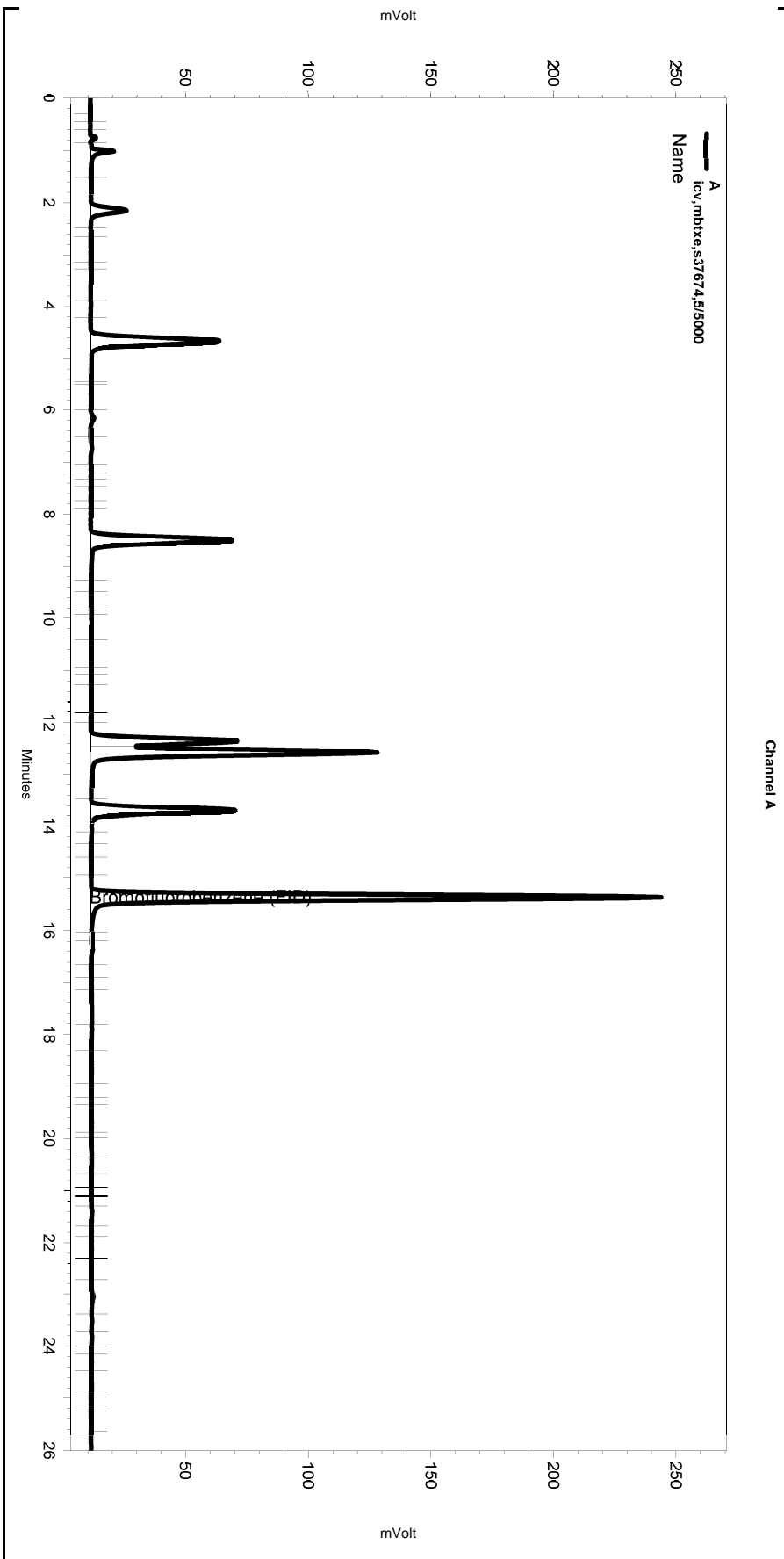
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	15122	131.665
Benzene	3.516	3.533	76182	111.106
Toluene	6.916	6.916	73201	98.142
Ethylbenzene	10.549	10.566	61948	100.976
m,p-Xylenes	10.916	10.916	151723	190.917
o-Xylene	11.766	11.766	66982	99.971
Bromofluorobenzene (PID)	12.666	12.666	504068	827.200

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: icv,mbtxe,s37674,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-034
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 8:43:50 AM
 Analysis Date: 10/5/2018 2:20:03 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled Event Type		Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

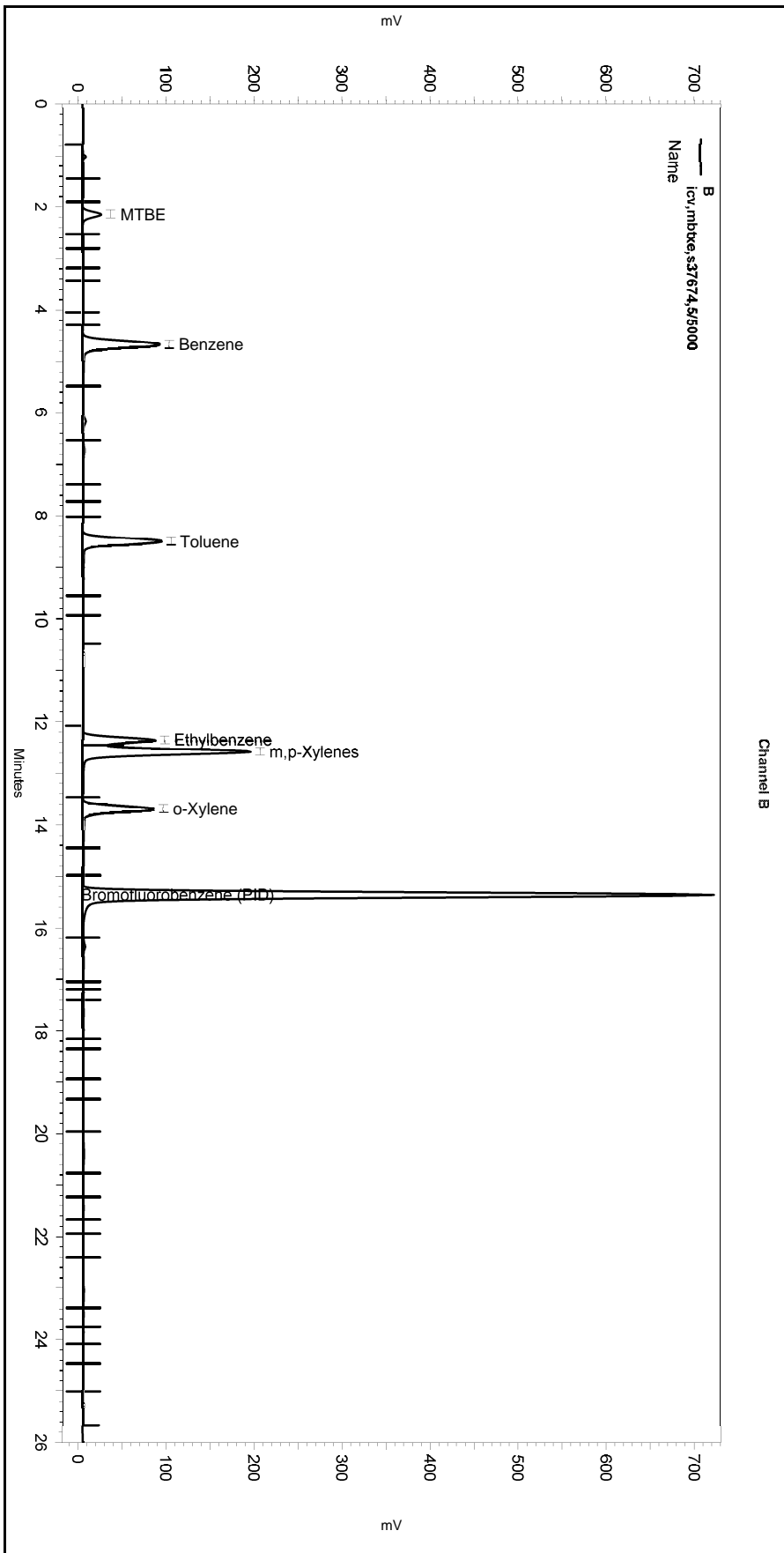
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-034

Enabled Event Type		Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: icv,mbtxe,s37674,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-034
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 8:43:50 AM
 Analysis Date: 10/5/2018 2:20:03 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

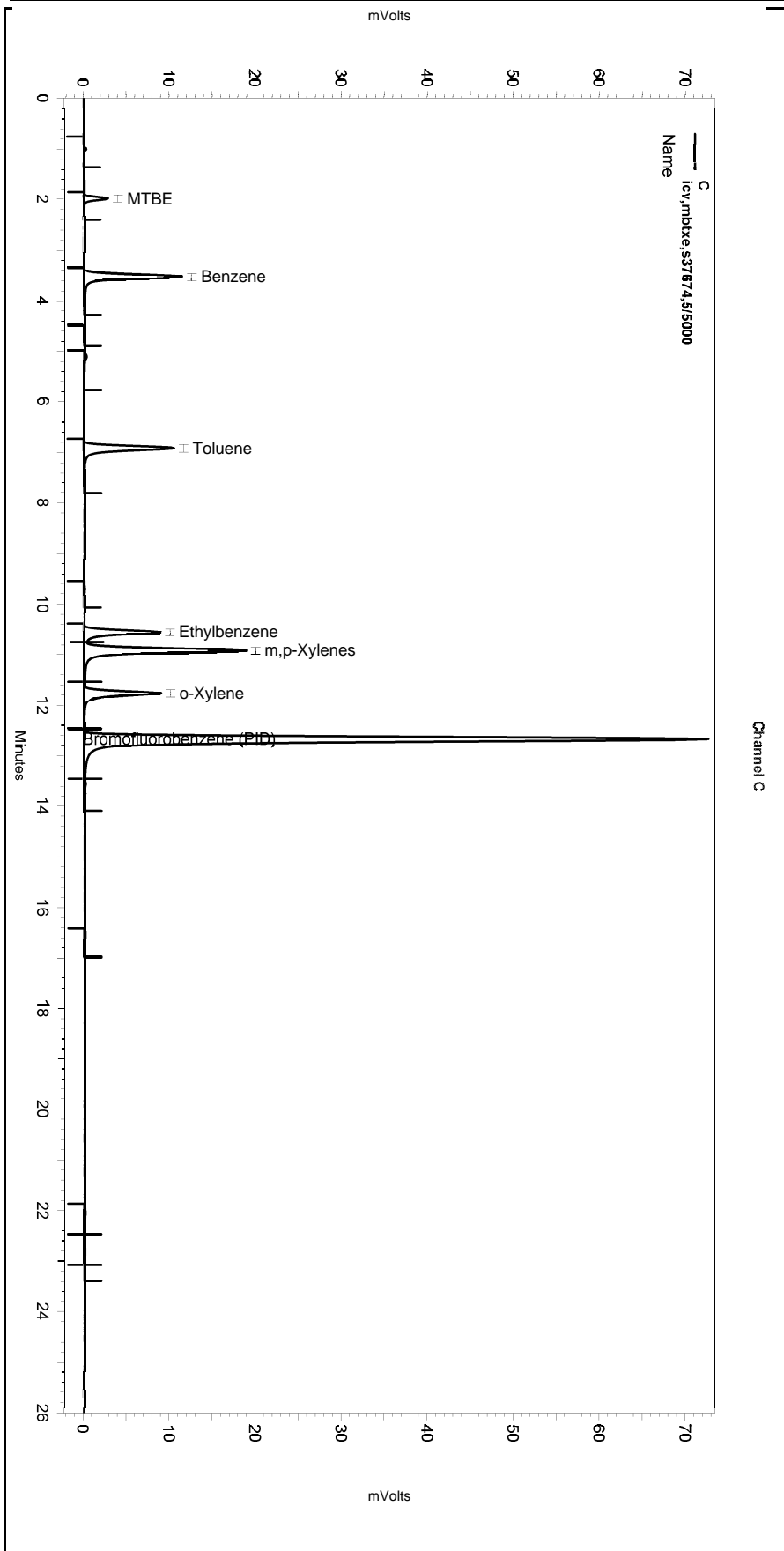
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-034

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\277.seq
 Sample Name: icv,mbtxe,s37674,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-034
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 8:43:50 AM
 Analysis Date: 10/5/2018 2:20:03 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\277-034

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Carbon Marker Run

Inst : GC07
 Seqnum : 328359254028
 Standards: S36859 (1000X), S37840 (5000X)

File : 249_028

IDF : 1.0
 Time : 07-SEP-2018 09:26

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C6 - n-Hexane	A	2.317	+/- 6s (0.100m)	2.217 - 2.417
C7 - n-Heptane	A	4.633	+/- 6s (0.100m)	4.533 - 4.733
C8 - n-Octane	A	8.333	+/- 6s (0.100m)	8.233 - 8.433
C10 - n-Decane	A	16.15	+/- 6s (0.100m)	16.050 - 16.250
C12 - n-Dodecane	A	23.1	+/- 6s (0.100m)	23.000 - 23.200

Carbon Range	Channel	Range Start	Range Stop
Gasoline C6-C10	A	2.217	16.250
Gasoline C6-C12	A	2.217	23.200
Gasoline C7-C12	A	4.533	23.200
JP-4 C7-C12	A	4.533	23.200

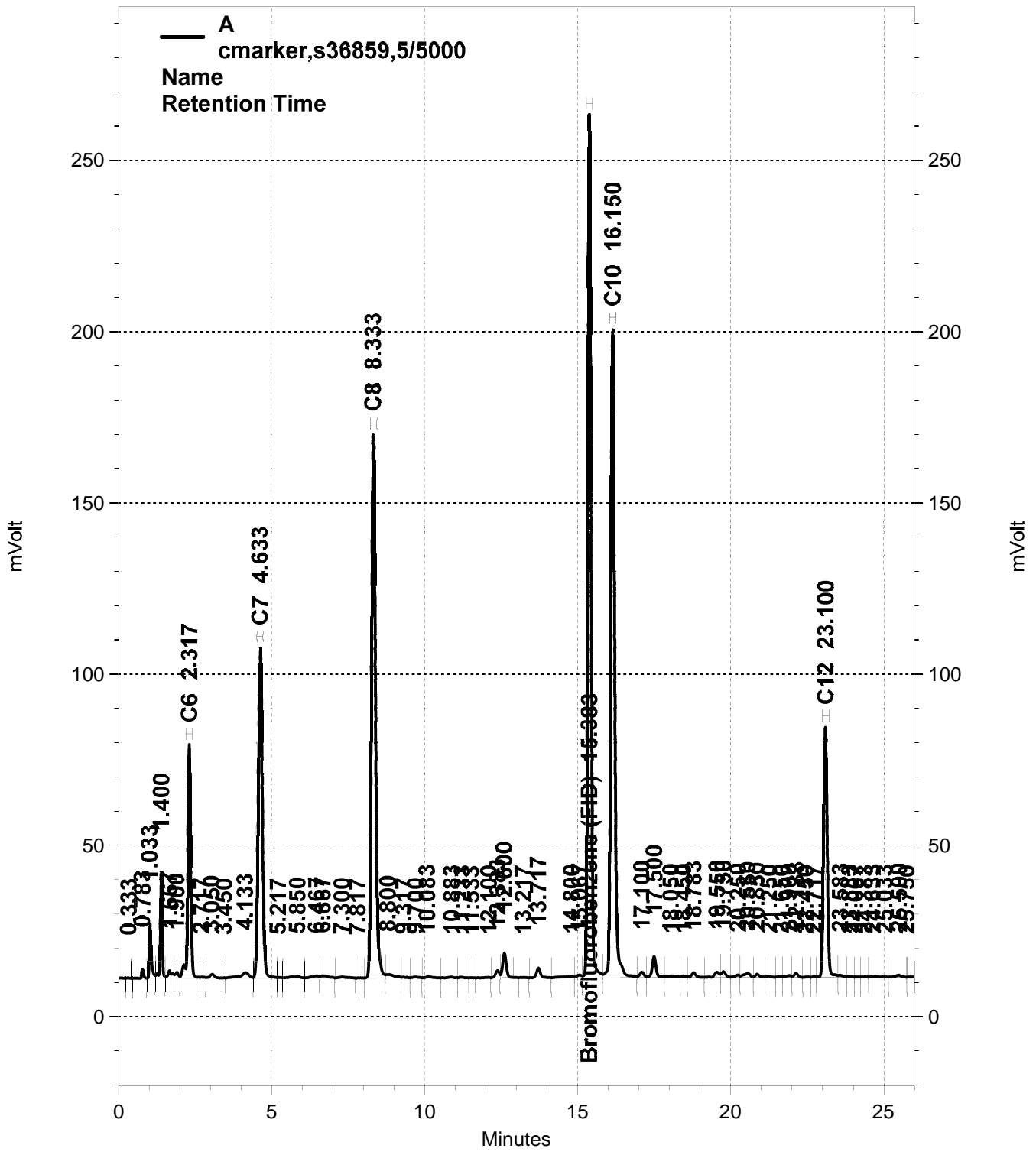
EZChrom method retention times successfully validated.

Analyst: KSM

Date: 09/07/18

Reviewer: TKM

Date: 09/07/18



\\Lims\gdrive\ezchrom\Projects\GC07\Data\249-028, A

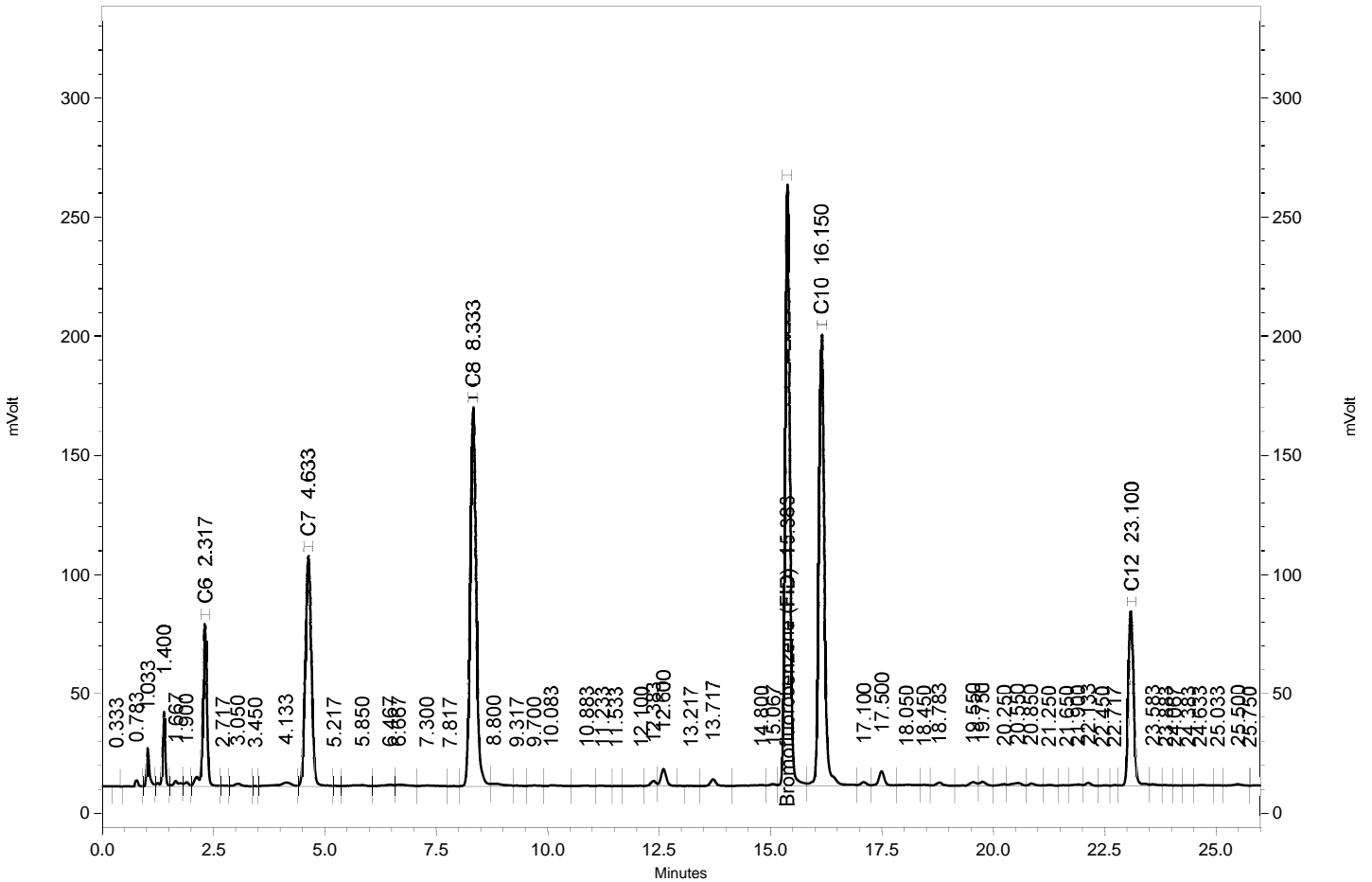
GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
C6	2.317	2.317	452294	0.000
C7	4.633	4.633	924306	0.000
C8	8.333	8.333	1490524	0.000
Bromofluorobenzene (FID)	15.383	15.383	1823456	0.000
C10	16.150	16.150	1626148	0.000
C12	23.100	23.100	592036	0.000



Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
Sample Name: cmarker,s36859,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-028
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
Run Date: 9/7/2018 9:26:54 AM
Analysis Date: 9/7/2018 12:30:15 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.383	1823456	919.350
GAS:6-10			4768672	1986.422
GAS:6-12			5566296	1985.038
GAS:7-12			5060118	2262.862
JP4:7-12			5060118	1349.653

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.150	2.150	92561	9.563
Benzene	4.633	4.650	380684	14.507
Toluene	8.500	8.500	94112	3.878
Ethylbenzene	12.383	12.367	62807	3.131
m,p-Xylenes	12.600	12.583	270952	10.680
o-Xylene	13.717	13.700	93389	4.458
Bromofluorobenzene (PID)	15.383	15.367	16392912	923.403

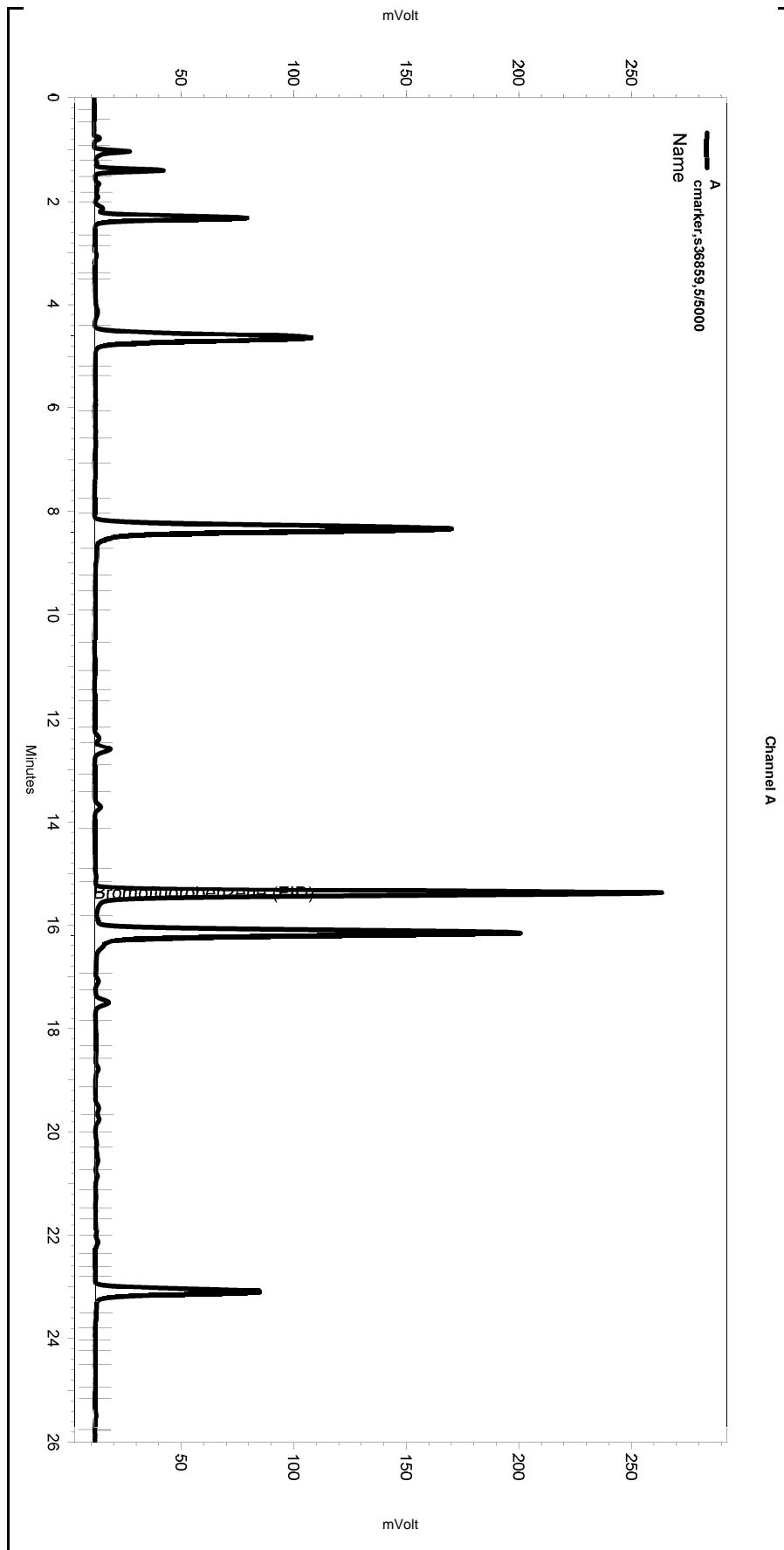
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	4898	8.692
Benzene	3.500	3.500	805	0.512
Toluene	6.933	6.916	8706	6.140
Ethylbenzene	10.599	10.566	2966	2.530
m,p-Xylenes	10.933	10.916	14758	9.555
o-Xylene	11.799	11.766	5147	4.066
Bromofluorobenzene (PID)	12.683	12.666	1060332	920.219

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: cmarker,s36859,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-028
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 9:26:54 AM
 Analysis Date: 9/7/2018 12:30:15 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

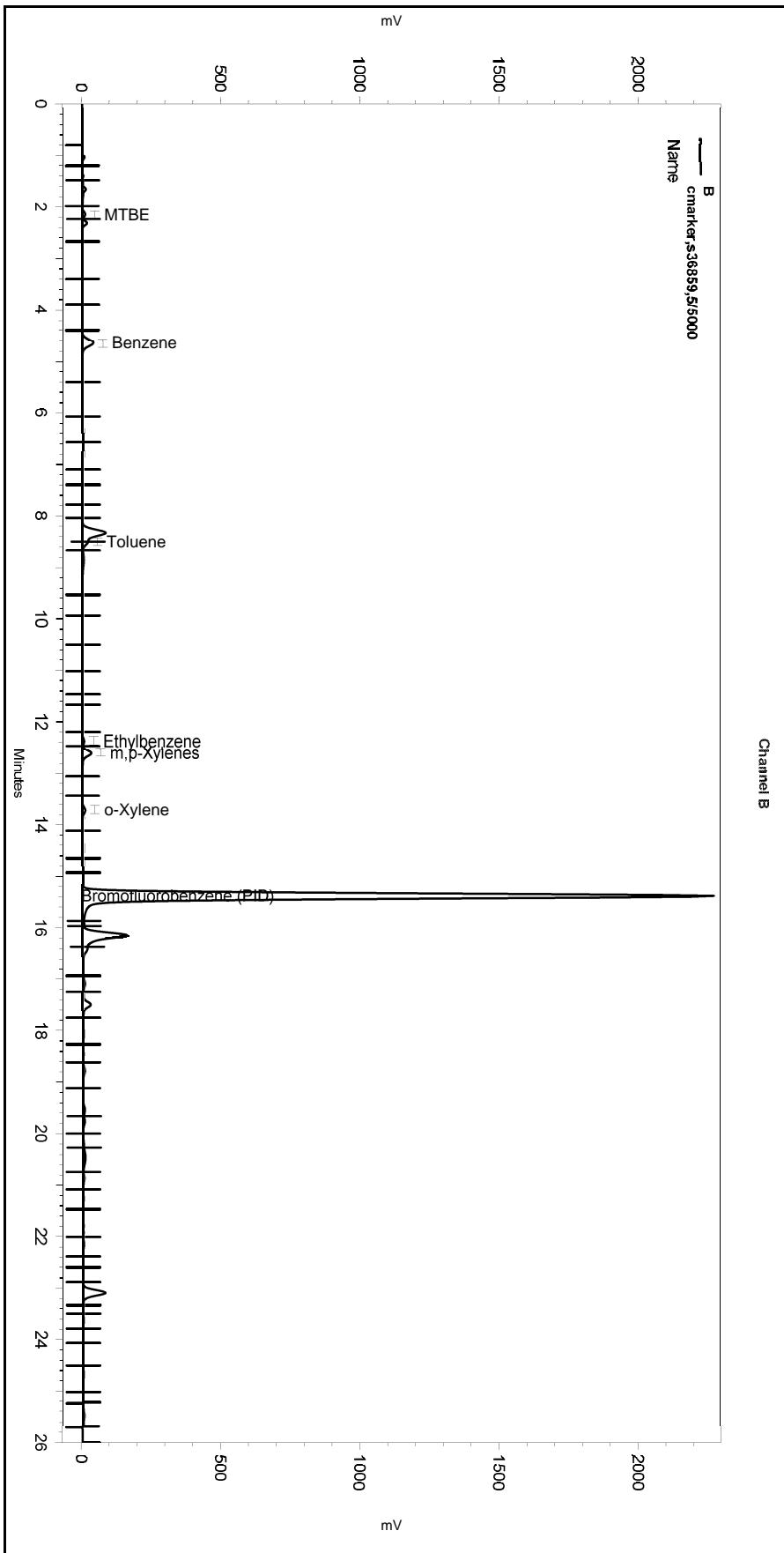
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: cmarker,s36859,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-028
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe249.met

Software Version 3.1.7
 Run Date: 9/7/2018 9:26:54 AM
 Analysis Date: 9/7/2018 12:30:15 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100

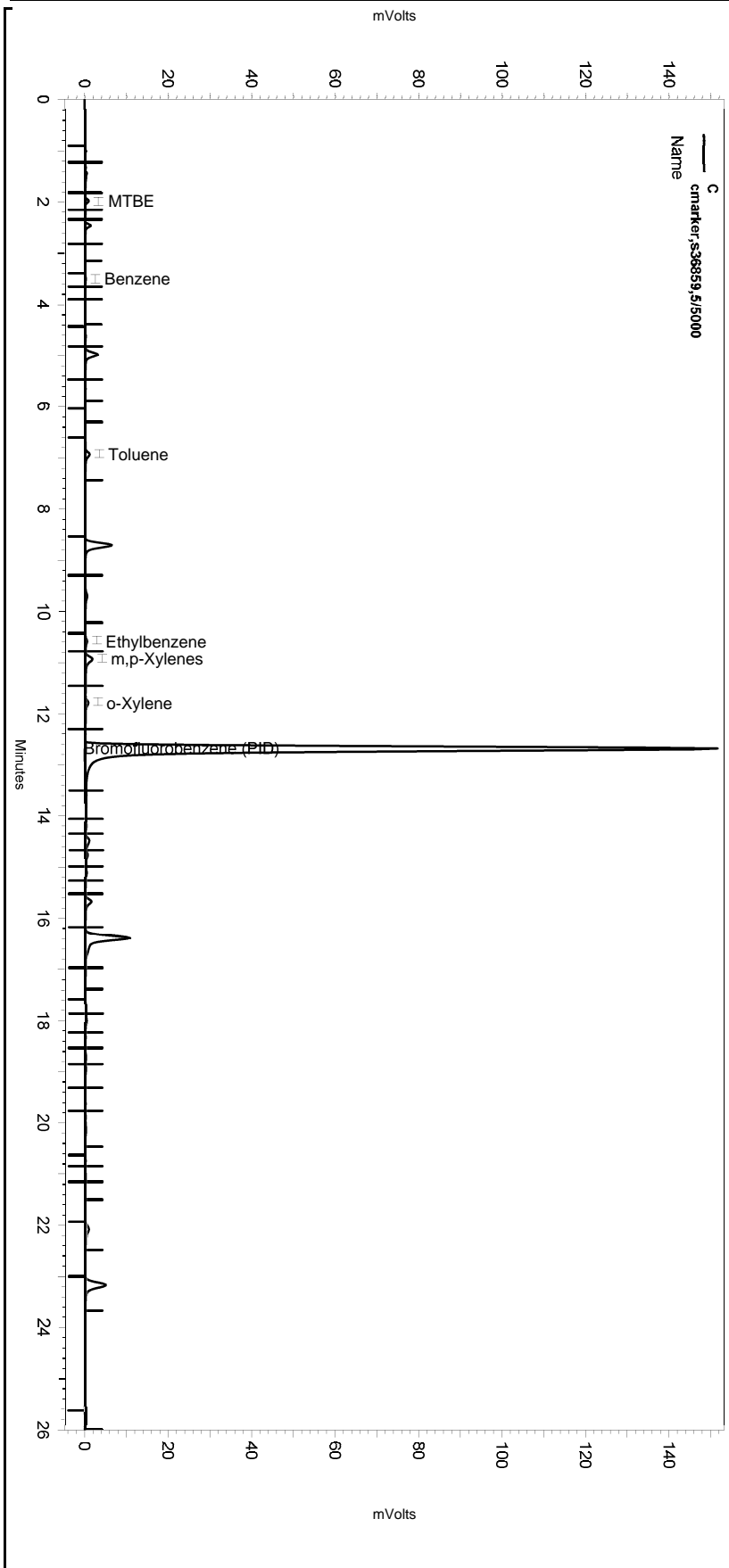
=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\249.seq
 Sample Name: cmarker,s36859,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-028
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE249.MET

Software Version 3.1.7
 Run Date: 9/7/2018 9:26:54 AM
 Analysis Date: 9/7/2018 12:30:15 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity		0 26	100

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\249-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Continuing Calibration Verification Raw Data

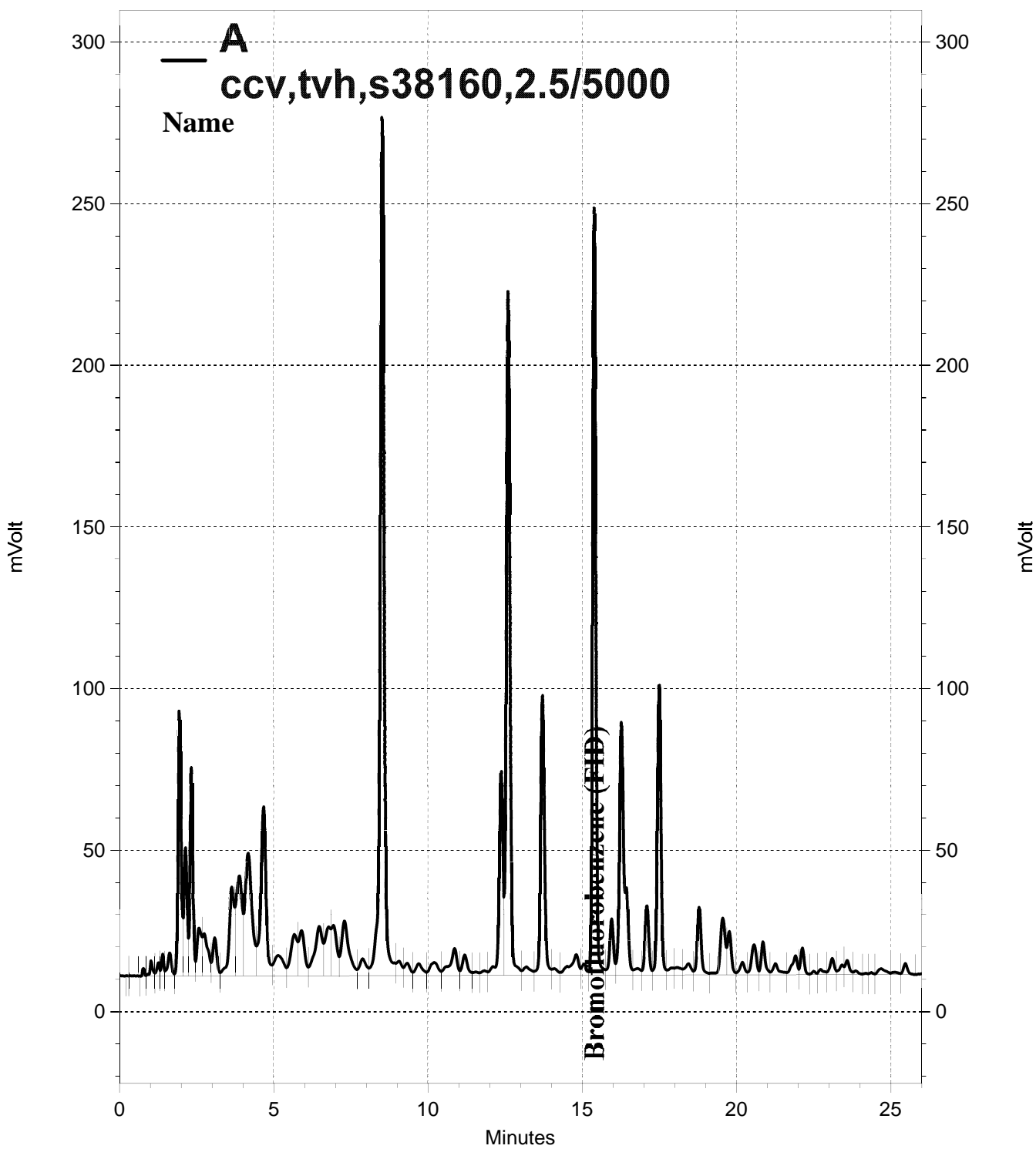
ENTHALPY SPIKE USER REPORT FOR 303845 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC950586 IDF : 1.0
 Seqnum : 328401045003.2 File : 278_003 Time : 05-OCT-2018 13:22
 Cal : 328359254001 Caldate : 07-SEP-2018
 Standards: S38160 (2000X), S37840 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2236.2	2301.0	5000	5145	ng	3	15	u
Bromofluorobenzene (FID)	A	1983.4	1929.5	900.0	875.6	ng	-3	15	u

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-003, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: ccv,tvh,s38160,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-003
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 1:22:19 PM
Analysis Date: 10/5/2018 1:51:02 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.383	1736593	875.556
GAS:6-10			10756439	4480.665
GAS:6-12			13701419	4886.166
GAS:7-12			11505067	5145.015
JP4:7-12			11505067	3068.673

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	48822	29.425
Benzene	4.700	4.667	558750	65.588
Toluene	8.517	8.483	3684616	454.080
Ethylbenzene	12.383	12.350	605876	93.437
m,p-Xylenes	12.600	12.567	2537161	311.633
o-Xylene	13.717	13.683	911303	126.537
Bromofluorobenzene (PID)	15.383	15.350	4775252	750.548

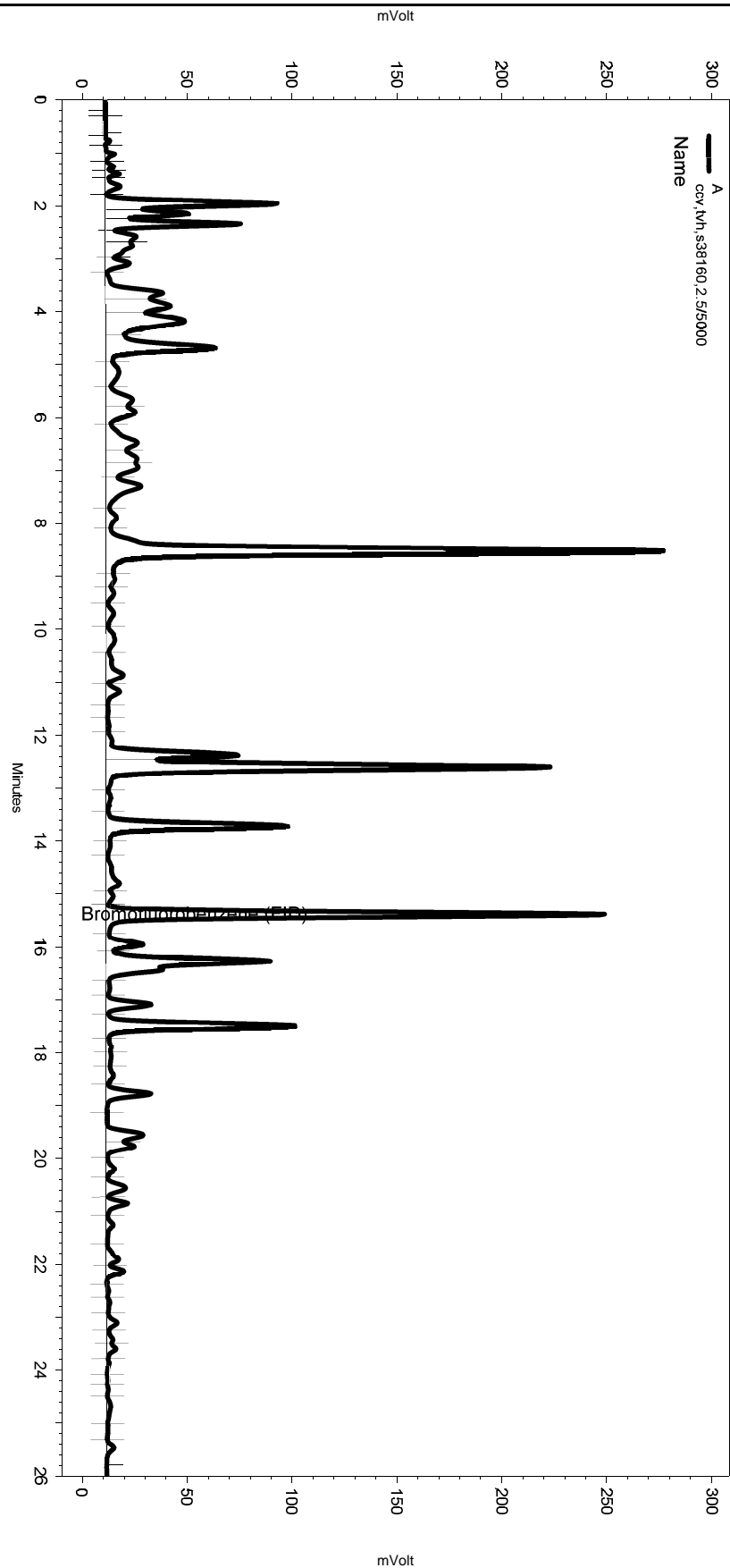
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene	3.533	3.533	45640	66.563
Toluene	6.933	6.916	373704	501.034
Ethylbenzene	10.566	10.566	55064	89.755
m,p-Xylenes	10.916	10.916	245711	309.185
o-Xylene	11.783	11.766	88622	132.269
Bromofluorobenzene (PID)	12.683	12.666	451888	741.570

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,tvh,s38160,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-003
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 1:22:19 PM
 Analysis Date: 10/5/2018 1:51:02 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

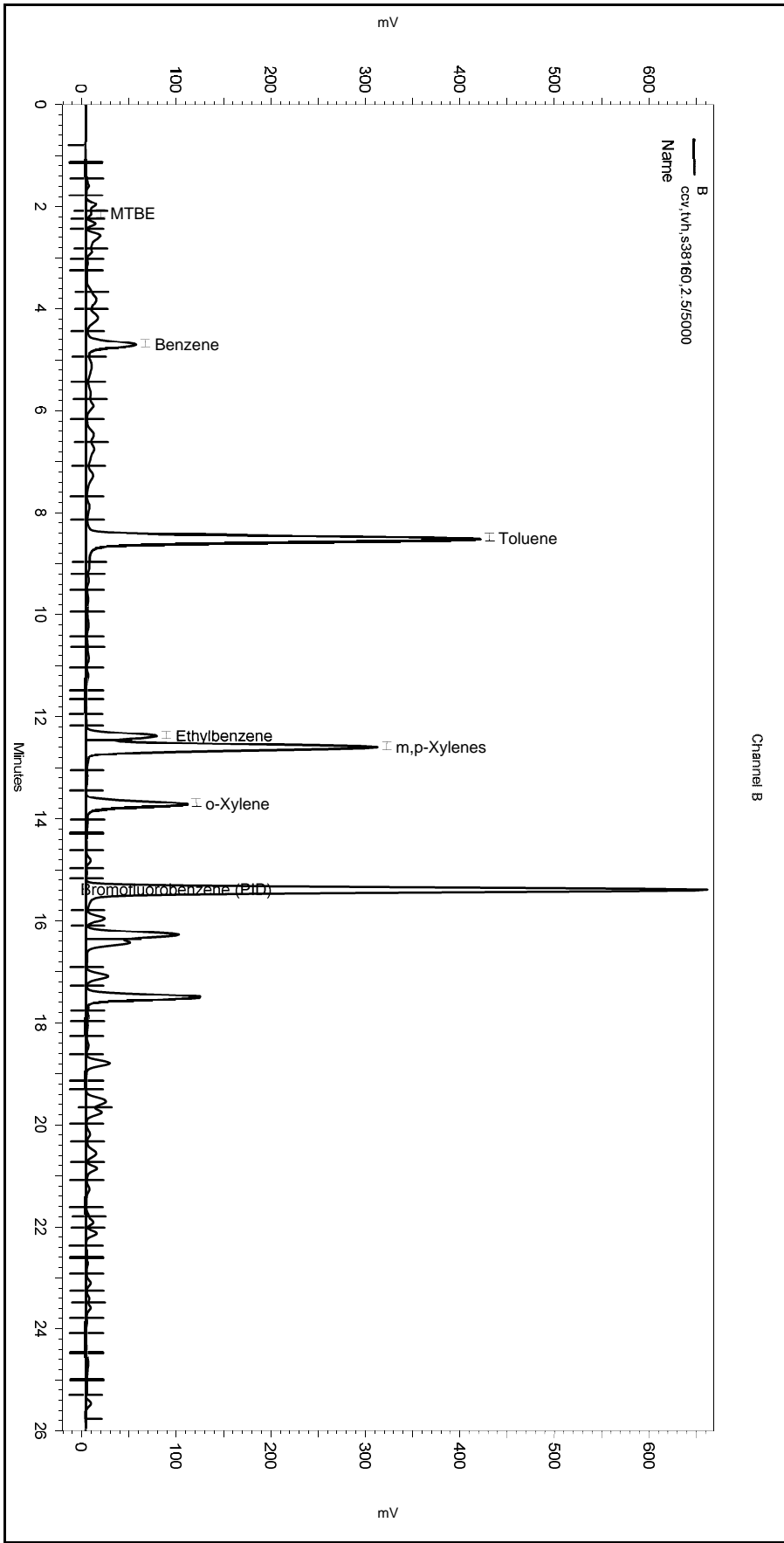
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-003_7D0E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence12018\278.seq
 Sample Name: ccv,tvh,s38160,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-003
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 1:22:19 PM
 Analysis Date: 10/5/2018 1:51:02 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

=====
 Manual Integration Fixes

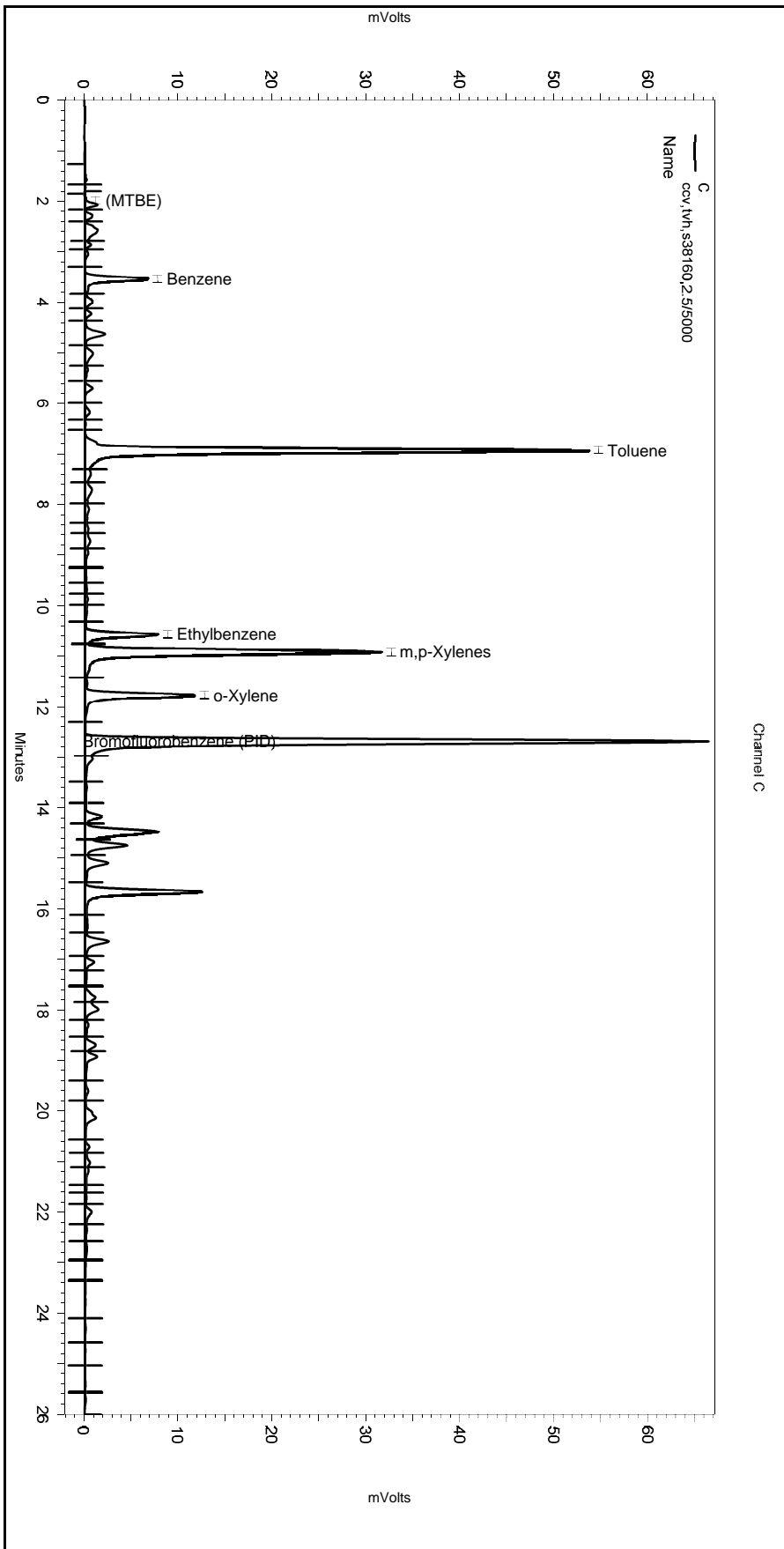
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-003_7D0E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,tvh,s38160,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-003
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 1:22:19 PM
 Analysis Date: 10/5/2018 1:51:02 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-003_7D0E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SPIKE USER REPORT FOR 303845 GCVOA Water
EPA 8021B

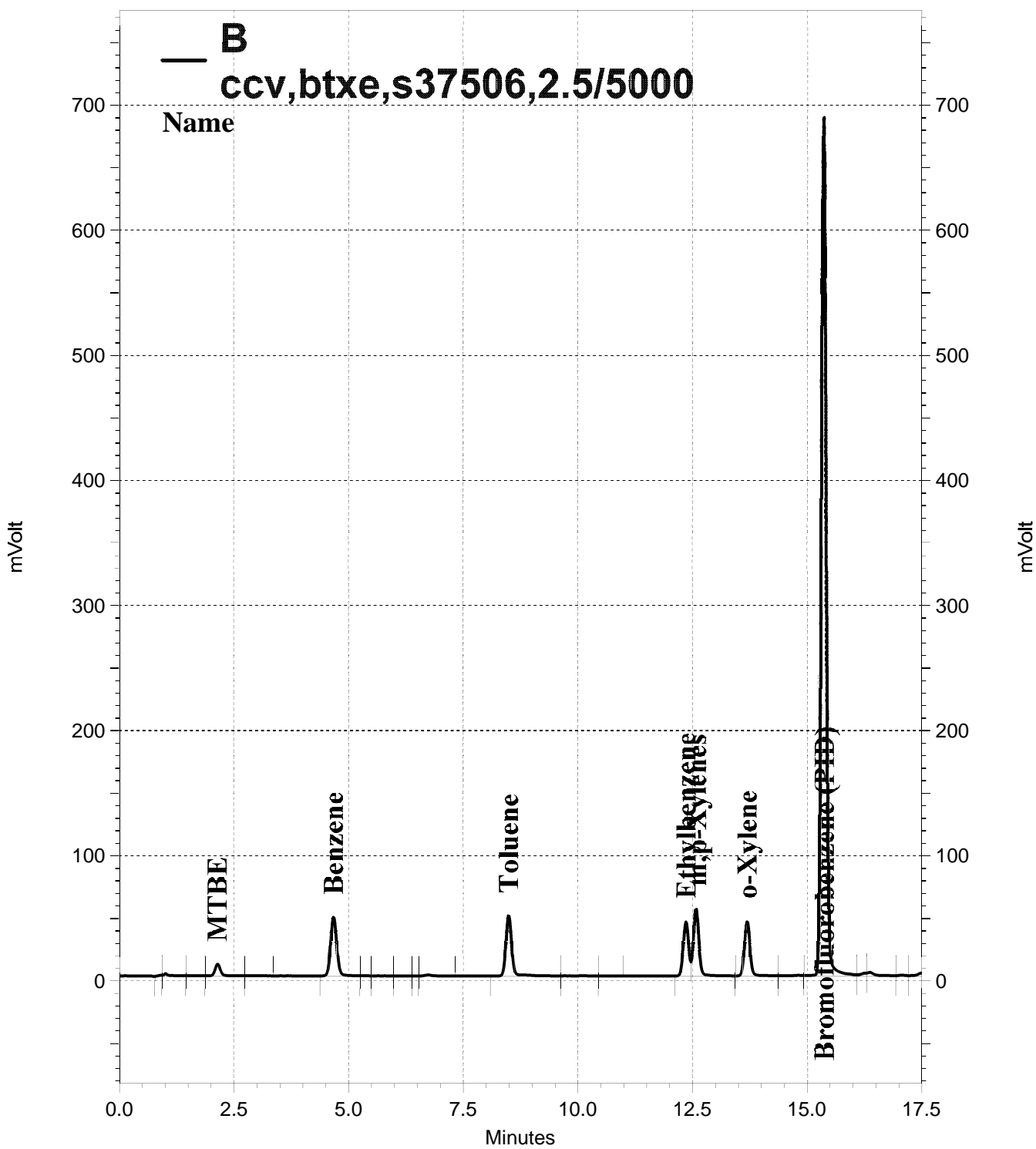
Inst : GC07 Run Name : QC950606 IDF : 1.0
 Seqnum : 328401045004.3 File : 278_004 Time : 05-OCT-2018 14:00
 Cal : 328399506001 Caldate : 05-OCT-2018
 Standards: S37506 (2000X), S37840 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	C	685.67	791.36	50.00	57.71	ng	15	15	u
Benzene	B	7884.9	9109.3	50.00	57.76	ng	16	15	c+ ***
Toluene	C	745.87	760.74	50.00	51.00	ng	2	15	u
Toluene	B	7756.0	9047.0	50.00	58.32	ng	17	15	c+ ***
Ethylbenzene	C	613.49	634.50	50.00	51.71	ng	3	15	u
Ethylbenzene	B	6001.4	7079.4	50.00	58.98	ng	18	15	c+ ***
m,p-Xylenes	C	794.70	807.46	50.00	50.80	ng	2	15	u
m,p-Xylenes	B	7633.0	9205.3	50.00	60.30	ng	21	15	c+ ***
o-Xylene	C	670.01	684.04	50.00	51.05	ng	2	15	u
o-Xylene	B	6988.0	7677.6	50.00	54.93	ng	10	15	
Bromofluorobenzene (PID)	C	609.37	531.14	900.0	784.5	ng	-13	15	u
Bromofluorobenzene (PID)	B	6350.7	5547.7	900.0	786.2	ng	-13	15	

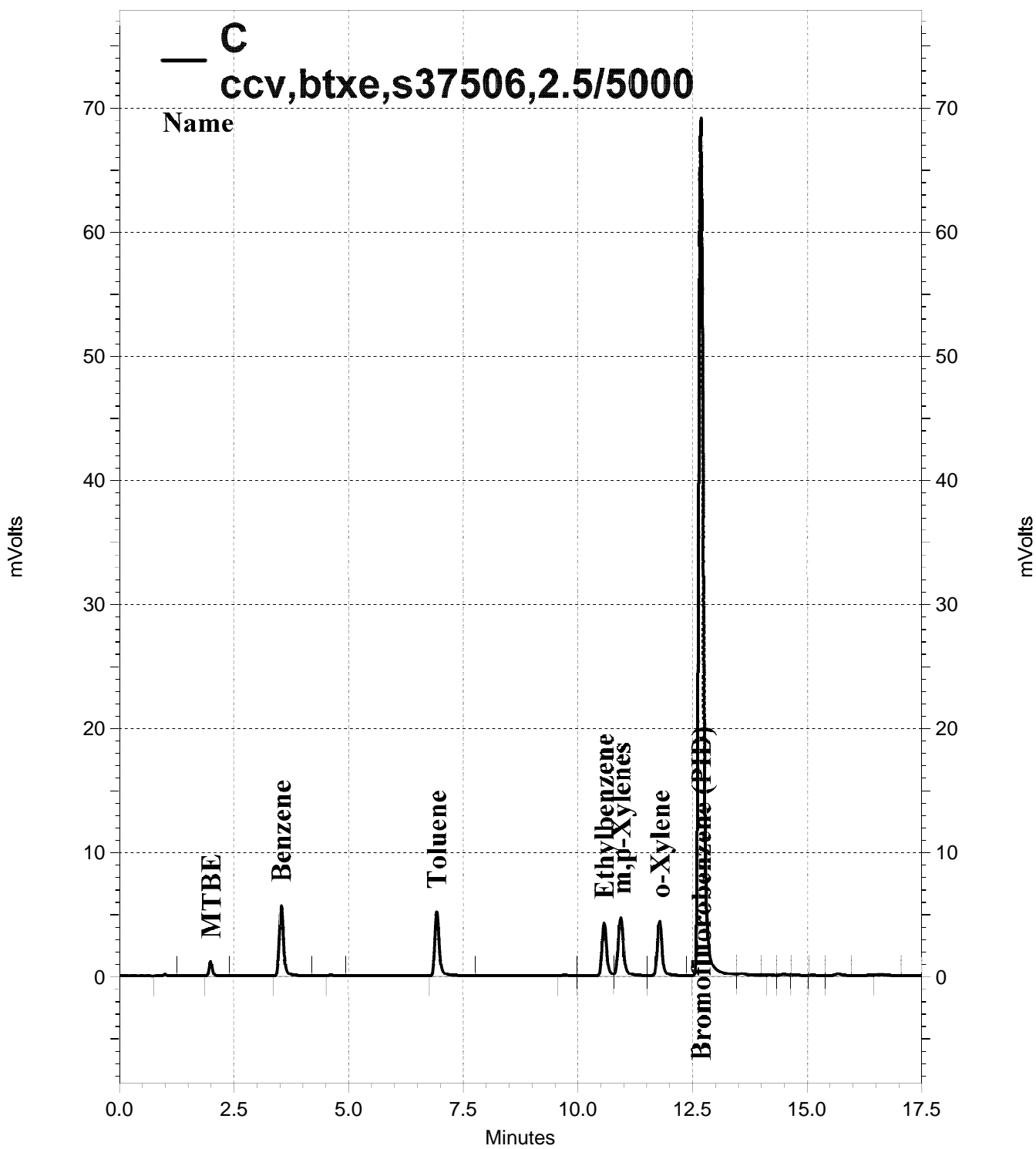
JM2 10/05/18 : Reporting from Channel C for all BTXE analytes using Channel B as confirmation. [general version]

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

+ = high bias c = CCV u = use



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: ccv,btxe,s37506,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 2:00:34 PM
Analysis Date: 10/5/2018 2:31:54 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1797216	906.121
GAS:6-10			1553728	647.216
GAS:6-12			1687028	601.624
GAS:7-12			1664842	744.510
JP4:7-12			1664842	444.053

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	94494	73.558
Benzene	4.667	4.667	455464	57.764
Toluene	8.483	8.483	452348	58.322
Ethylbenzene	12.350	12.350	353971	58.981
m,p-Xylenes	12.583	12.567	460263	60.299
o-Xylene	13.683	13.683	383881	54.934
Bromofluorobenzene (PID)	15.367	15.350	4992958	786.202

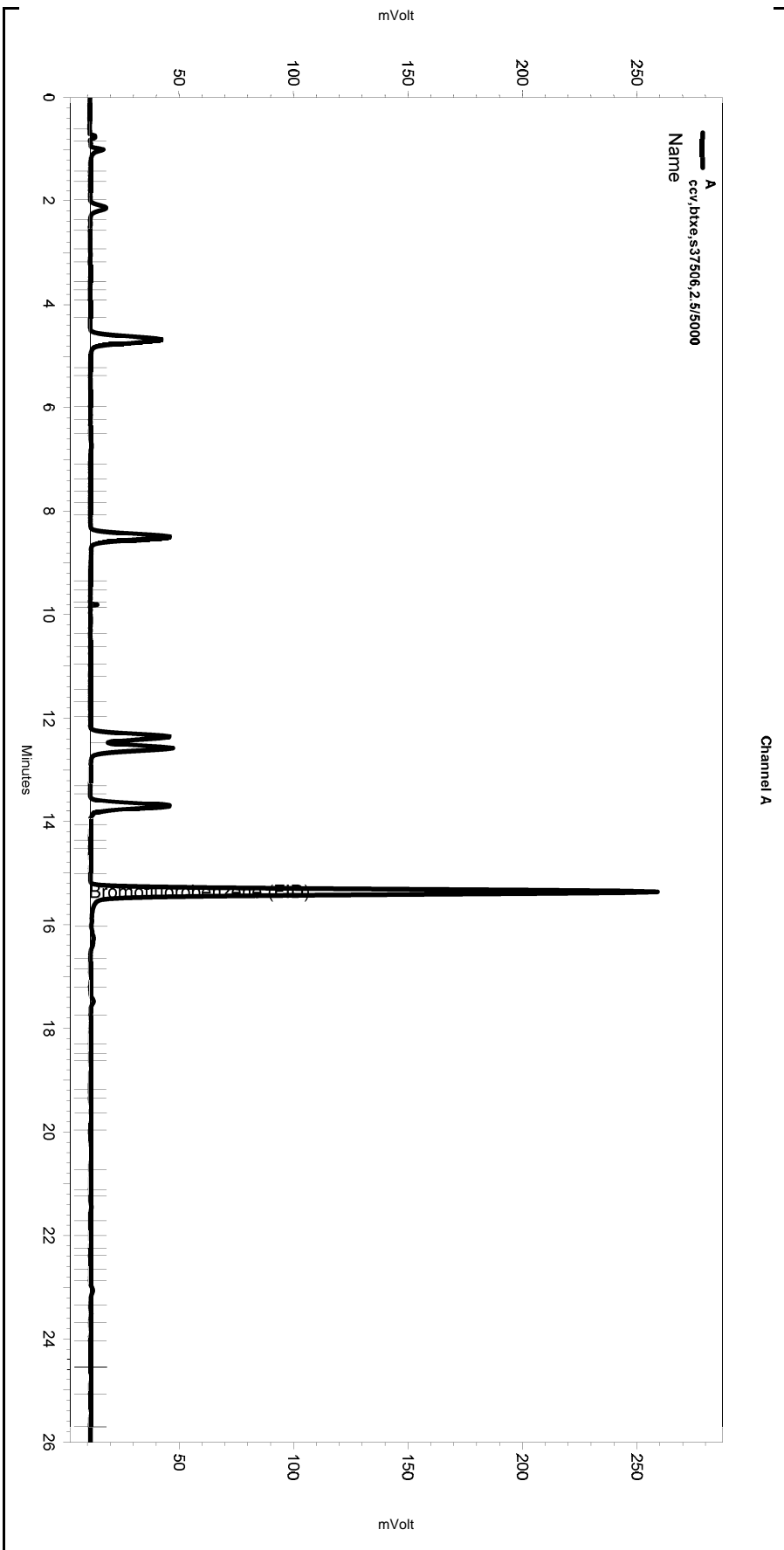
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.000	1.983	6688	58.231
Benzene	3.533	3.533	39568	57.707
Toluene	6.916	6.916	38037	50.997
Ethylbenzene	10.566	10.566	31725	51.712
m,p-Xylenes	10.933	10.916	40373	50.803
o-Xylene	11.783	11.766	34202	51.047
Bromofluorobenzene (PID)	12.683	12.666	478022	784.457

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 2:00:34 PM
 Analysis Date: 10/5/2018 2:31:54 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

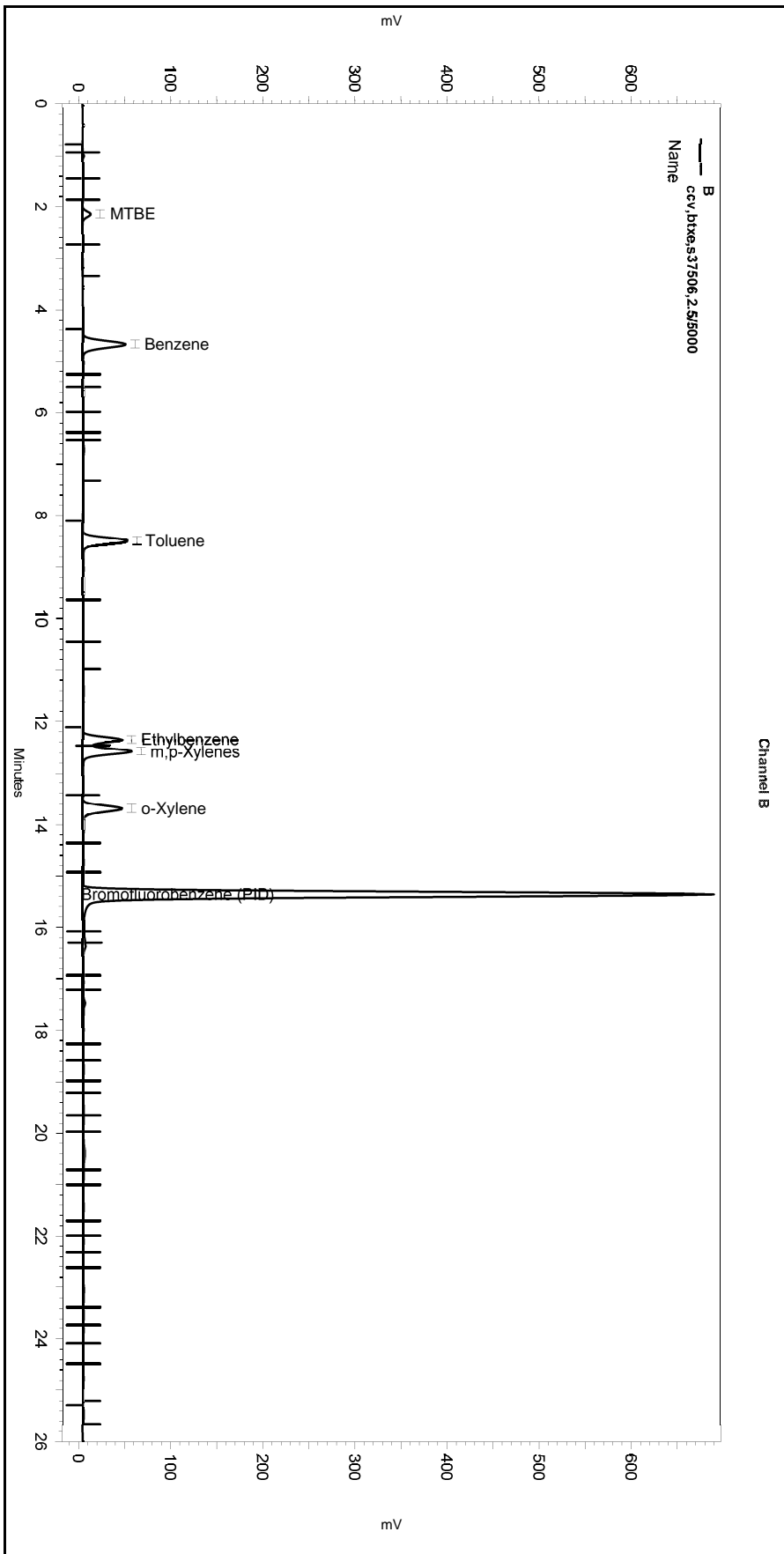
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE277.met

Software Version 3.1.7
 Run Date: 10/5/2018 2:00:34 PM
 Analysis Date: 10/5/2018 2:31:54 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

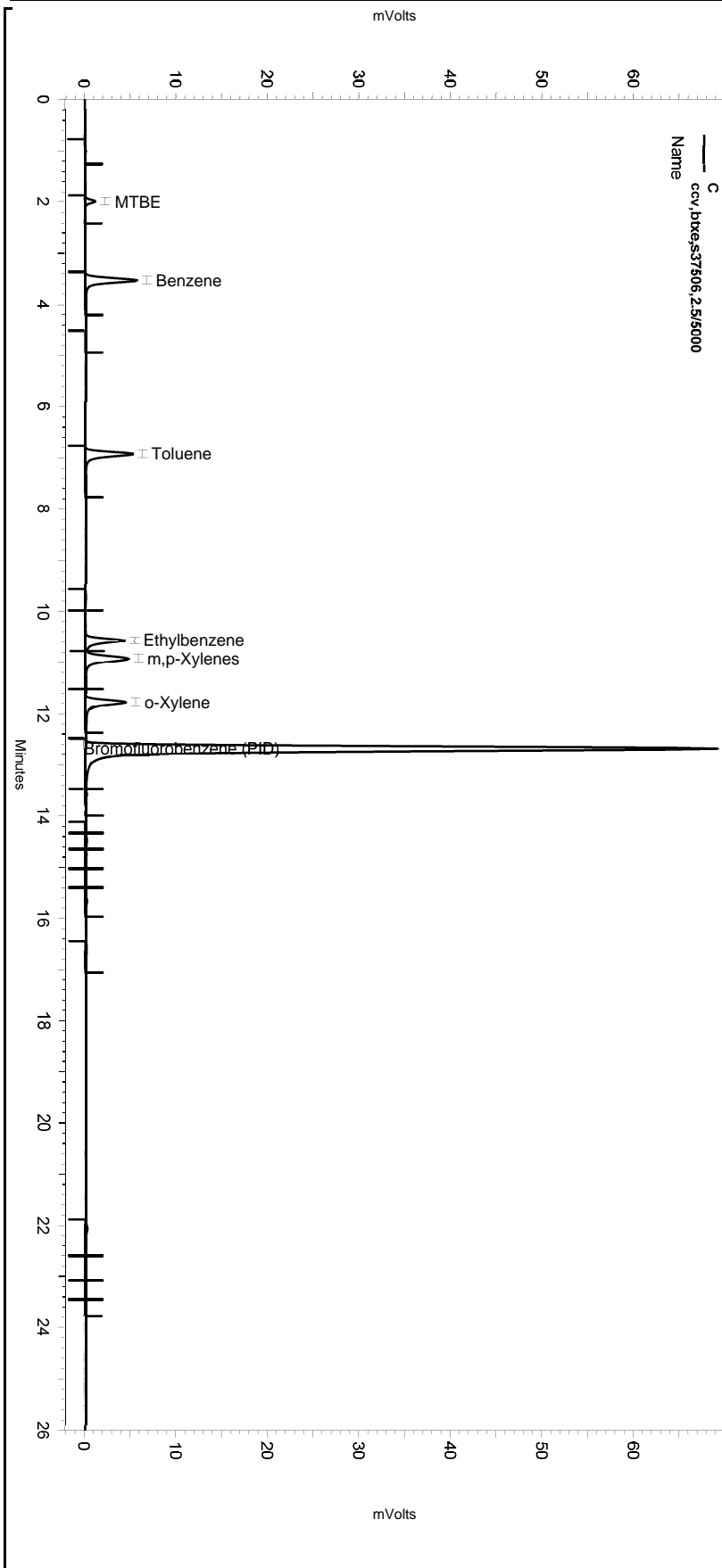
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
 Sample Name: ccv,btxe,s37506,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 2:00:34 PM
 Analysis Date: 10/5/2018 2:31:54 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

---< General Method Parameters >---

No items selected for this section

---< C >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

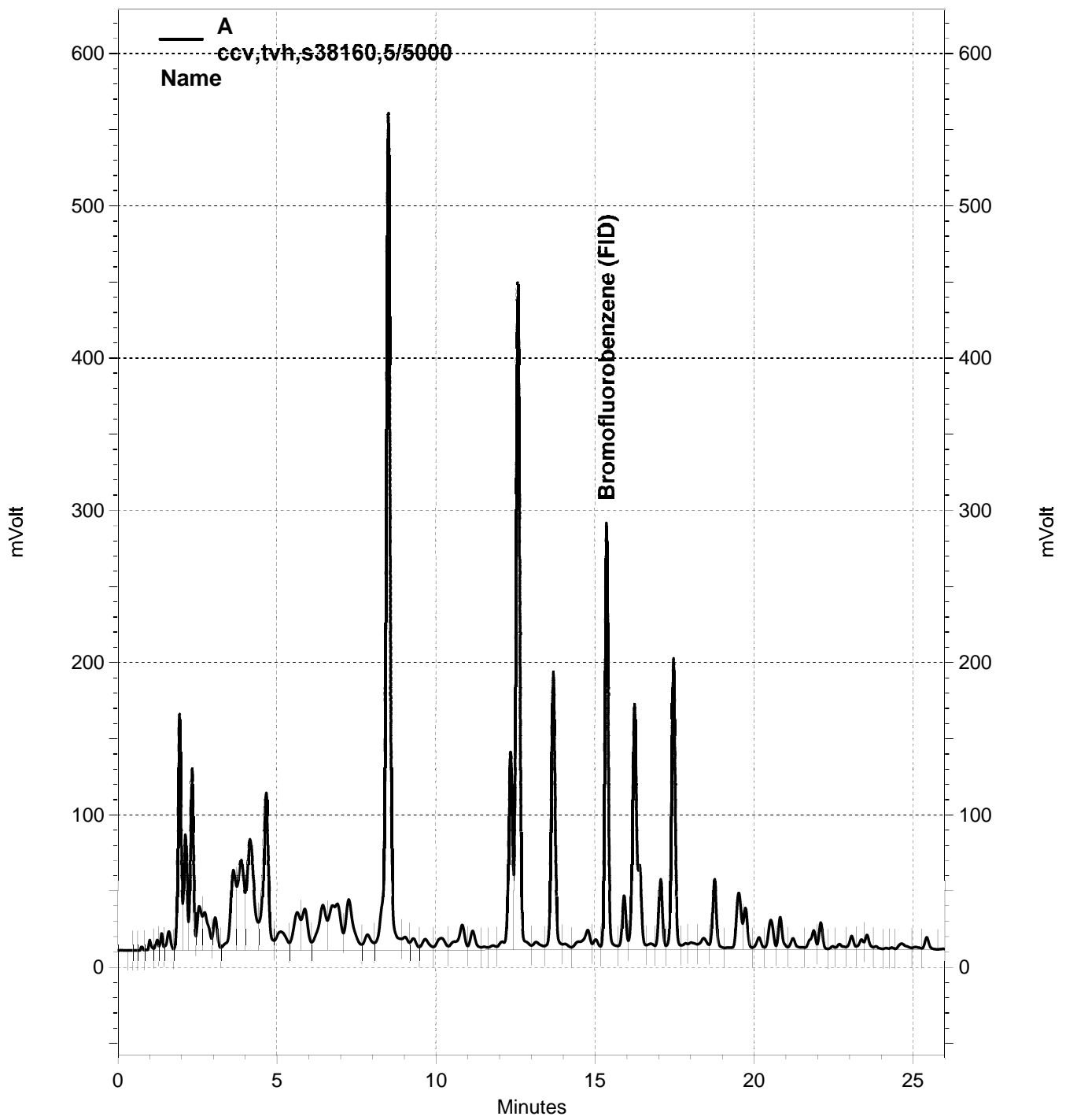
ENTHALPY SPIKE USER REPORT FOR 303845 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC950811 IDF : 1.0
 Seqnum : 328401045018.5 File : 278_018 Time : 05-OCT-2018 23:05
 Cal : 328359254001 Caldate : 07-SEP-2018
 Standards: S38160 (1000X), S37840 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2236.2	2336.7	10000	10450	ng	4	15	u
Bromofluorobenzene (FID)	A	1983.4	2258.1	900.0	1025	ng	14	15	u

Analyst: JM2 Date: 10/08/18 Reviewer: EAH Date: 10/08/18

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-018, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: ccv,tvh,s38160,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-018
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/5/2018 11:05:44 PM
Analysis Date: 10/5/2018 11:34:28 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	2032252	1024.621
GAS:6-10			23253740	9686.499
GAS:6-12			27543448	9822.477
GAS:7-12			23367416	10449.807
JP4:7-12			23367416	6232.642

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	64522	50.226
Benzene	4.683	4.667	928138	117.710
Toluene	8.500	8.483	6576324	847.903
Ethylbenzene	12.350	12.350	1267404	211.185
m,p-Xylenes	12.583	12.567	5156198	675.511
o-Xylene	13.683	13.683	1912384	273.668
Bromofluorobenzene (PID)	15.367	15.350	5516904	868.704

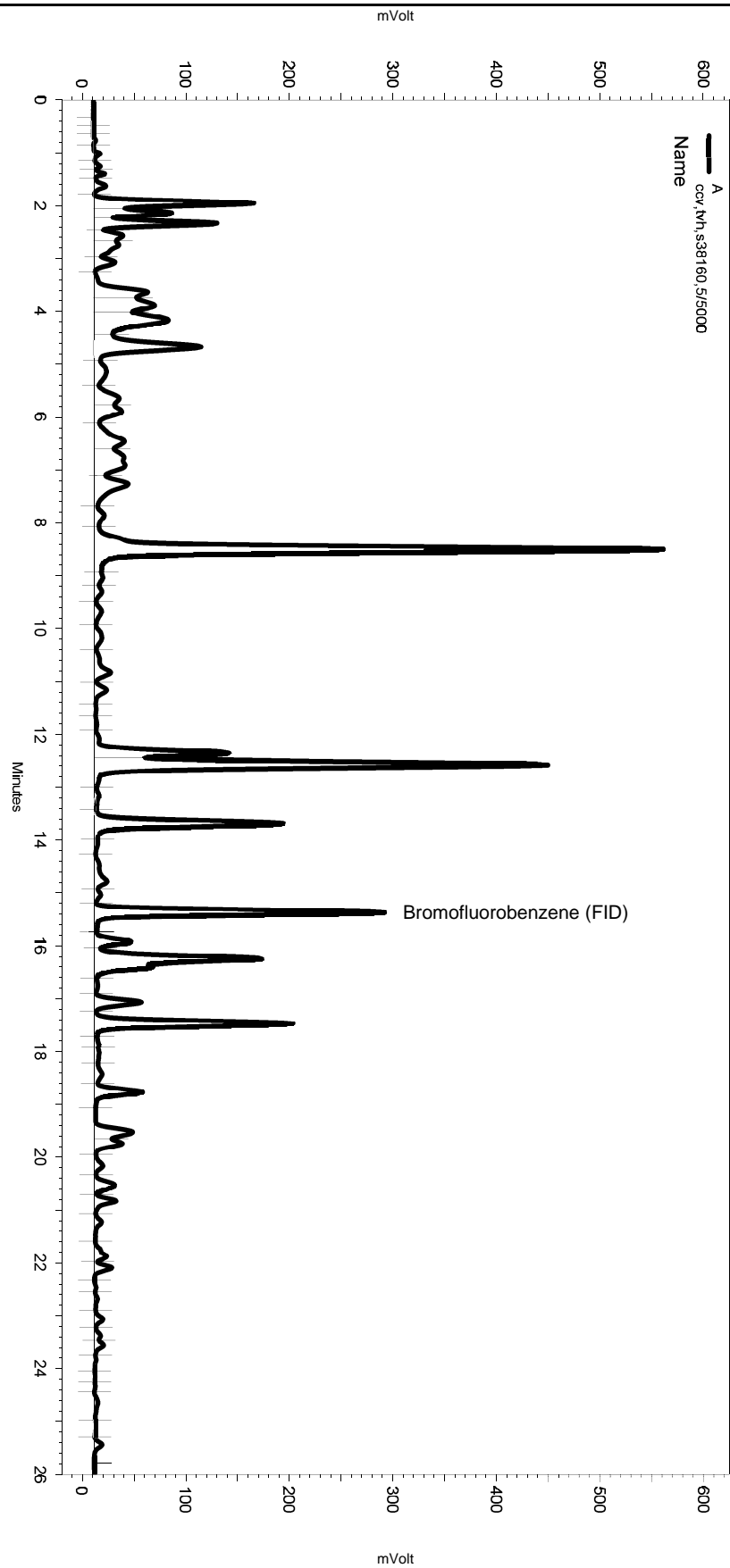
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		1.983		0.000 BDL
Benzene	3.533	3.533	82457	120.258
Toluene	6.916	6.916	687508	921.759
Ethylbenzene	10.549	10.566	120787	196.884
m,p-Xylenes	10.899	10.916	522905	657.987
o-Xylene	11.766	11.766	195984	292.508
Bromofluorobenzene (PID)	12.666	12.666	529369	868.720

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,tvh,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 11:05:44 PM
 Analysis Date: 10/5/2018 11:34:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

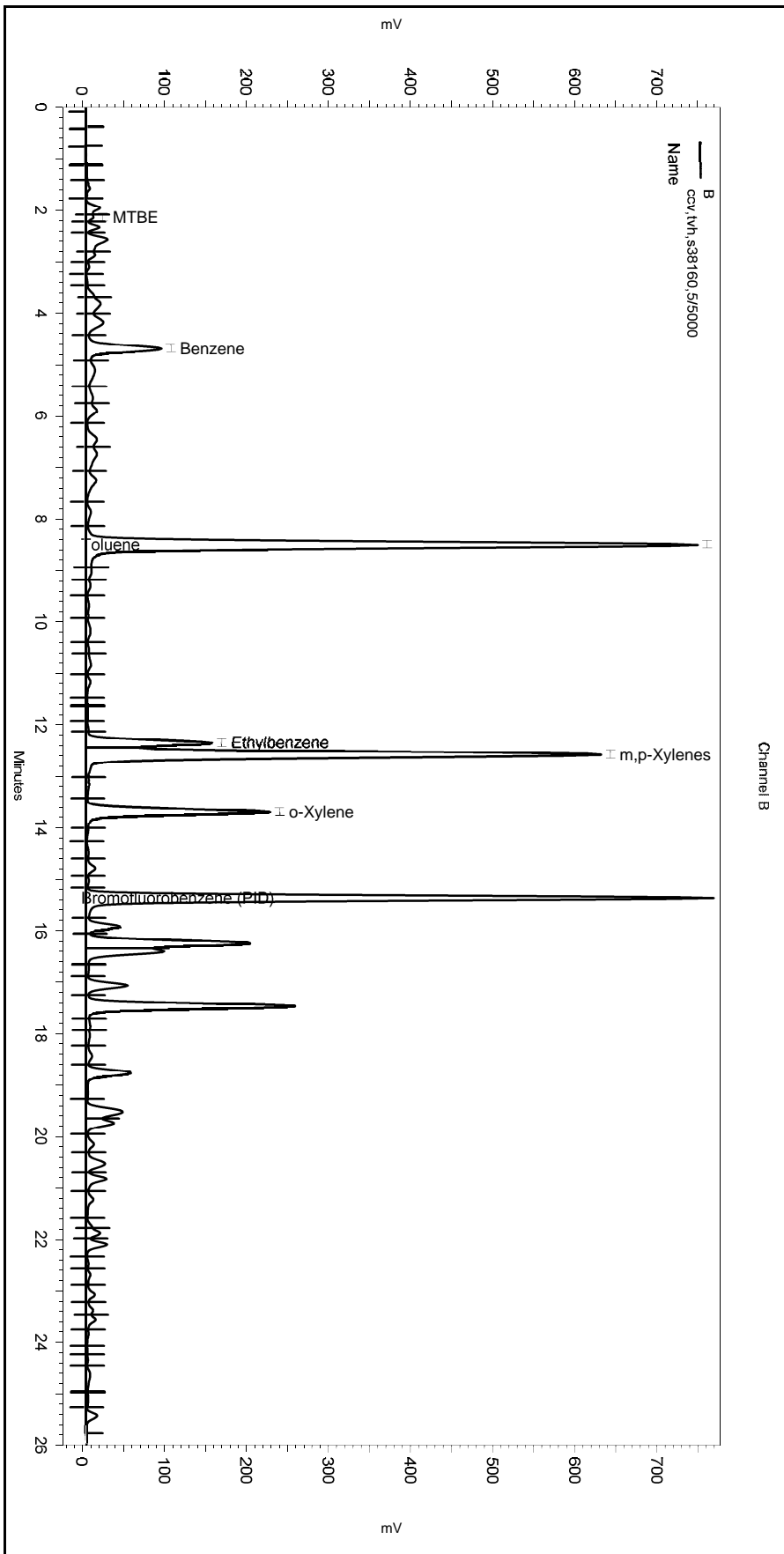
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-018_7D1D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,tvh,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 11:05:44 PM
 Analysis Date: 10/5/2018 11:34:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

=====
 Manual Integration Fixes

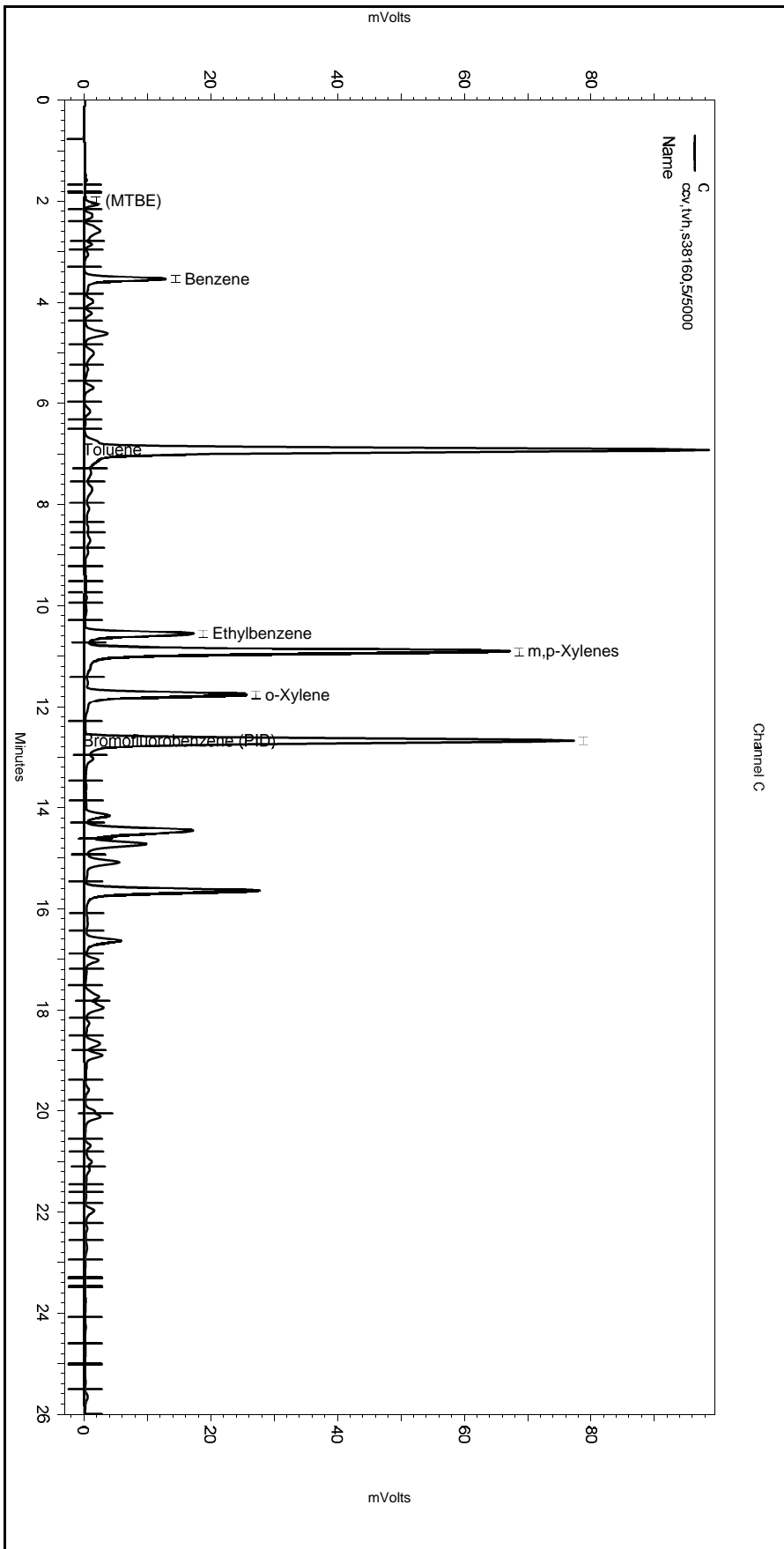
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-018_7D1D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,tvh,s38160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/5/2018 11:05:44 PM
 Analysis Date: 10/5/2018 11:34:28 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-018_7D1D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCVOA Water
EPA 8021B

Inst : GC07 Run Name : BTXE IDF : 1.0
 Seqnum : 328401045021 File : 278_021 Time : 06-OCT-2018 00:59
 Cal : 328399506001 Caldate : 05-OCT-2018
 Standards: S37506 (1000X), S37840 (5000X)

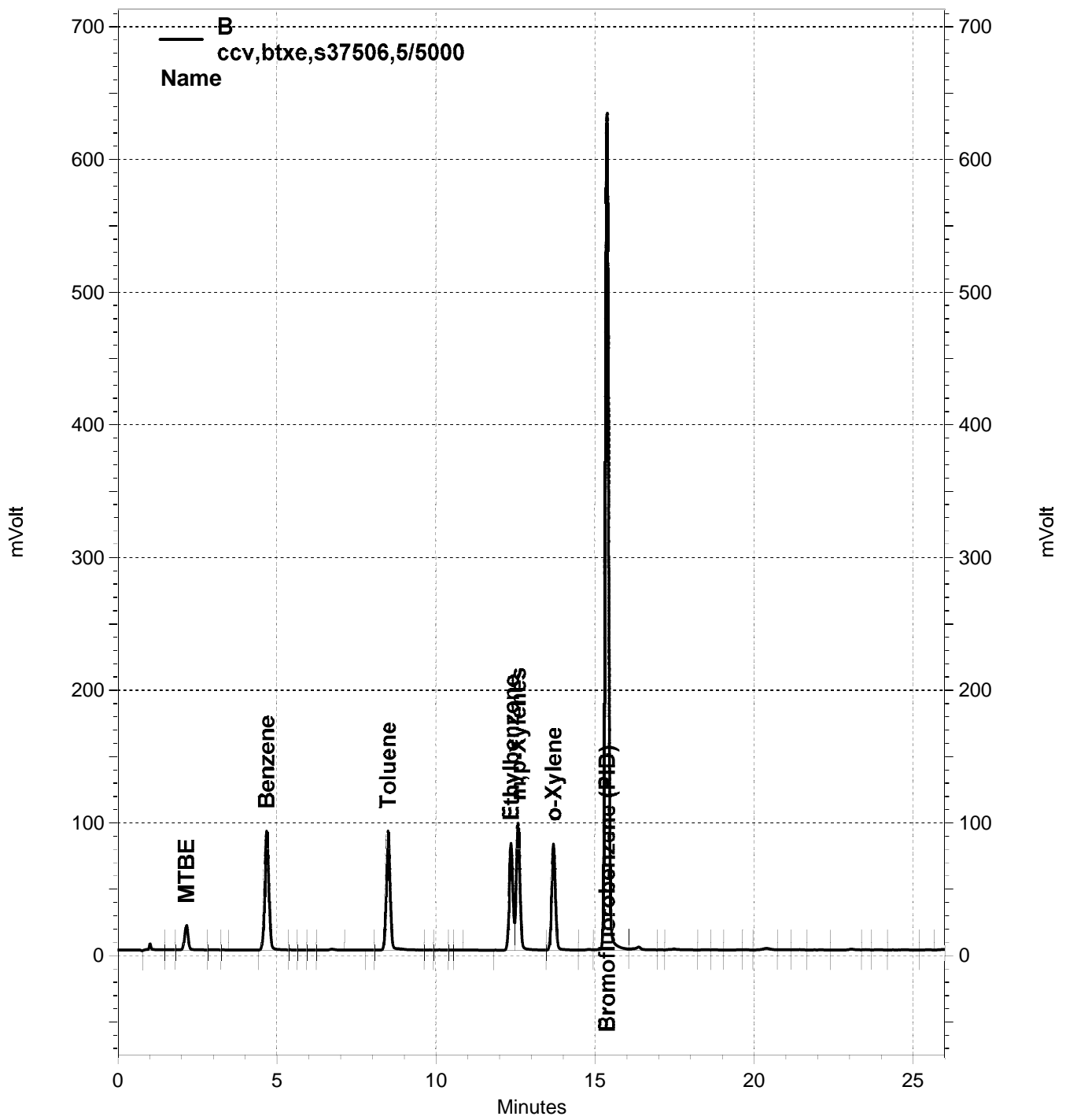
Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	B	7884.9	8506.2	100.0	107.9	ng	8	15	
Toluene	B	7756.0	8126.9	100.0	104.8	ng	5	15	
Ethylbenzene	B	6001.4	6611.9	100.0	110.2	ng	10	15	
m,p-Xylenes	B	7633.0	7940.1	100.0	104.0	ng	4	15	
o-Xylene	B	6988.0	6808.9	100.0	97.44	ng	-3	15	
Bromofluorobenzene (PID)	B	6350.7	5150.2	900.0	729.9	ng	-19	15	c-
Benzene	C	685.67	777.70	100.0	113.4	ng	13	15	
Toluene	C	745.87	719.48	100.0	96.46	ng	-4	15	
Ethylbenzene	C	613.49	594.41	100.0	96.89	ng	-3	15	
m,p-Xylenes	C	794.70	743.65	100.0	93.58	ng	-6	15	
o-Xylene	C	670.01	636.41	100.0	94.98	ng	-5	15	
Bromofluorobenzene (PID)	C	609.37	495.97	900.0	732.5	ng	-19	15	c-

ALE 10/08/18 [Bromofluorobenzene (PID) B]: Passes control limits.

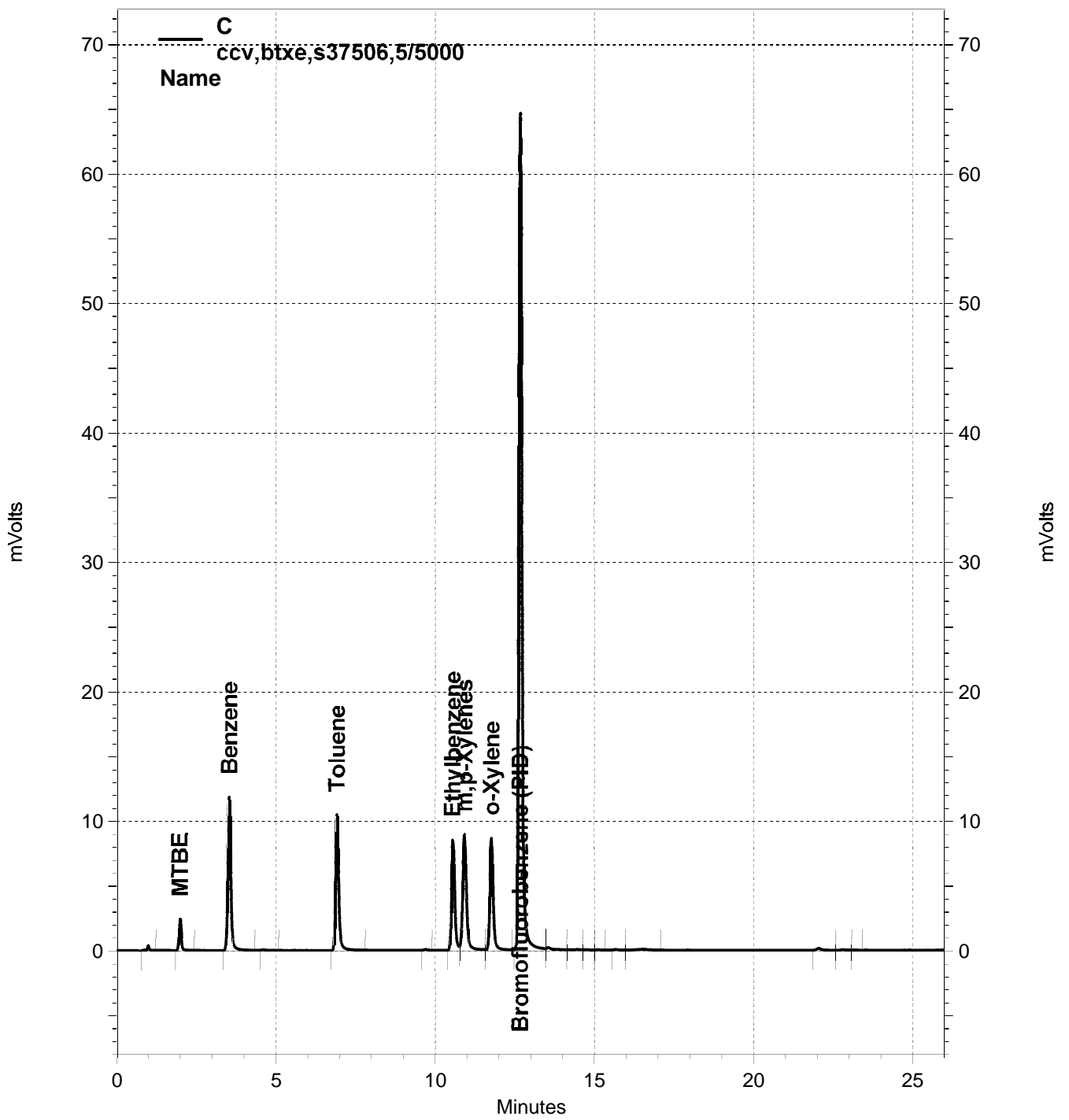
ALE 10/08/18 [Bromofluorobenzene (PID) C]: Passes control limits.

Analyst: ALE Date: 10/08/18 Reviewer: EAH Date: 10/08/18

--low bias c=CCV



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-021, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\278-021, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2018\278.seq
Sample Name: ccv,btxe,s37506,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-021
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
Run Date: 10/6/2018 12:59:58 AM
Analysis Date: 10/6/2018 1:28:41 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	1691071	852.605
GAS:6-10			2800617	1166.615
GAS:6-12			2888648	1030.142
GAS:7-12			2876027	1286.147
JP4:7-12			2876027	767.104

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.167	2.133	171213	133.278
Benzene	4.683	4.667	850623	107.880
Toluene	8.500	8.483	812687	104.782
Ethylbenzene	12.367	12.350	661194	110.173
m,p-Xylenes	12.583	12.567	794012	104.023
o-Xylene	13.700	13.683	680894	97.438
Bromofluorobenzene (PID)	15.383	15.350	4635169	729.864

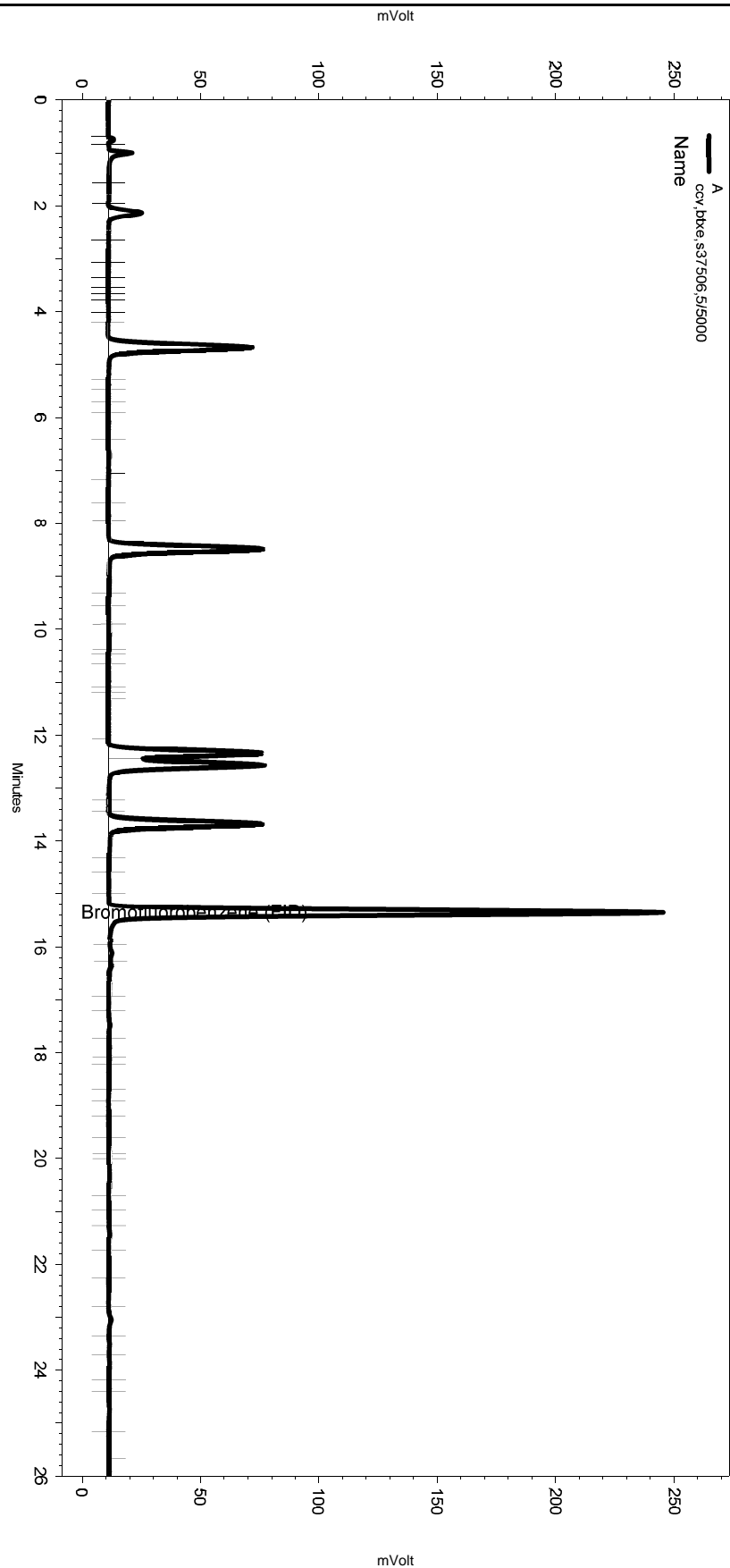
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	1.983	12483	108.687
Benzene	3.533	3.533	77770	113.422
Toluene	6.916	6.916	71948	96.462
Ethylbenzene	10.549	10.566	59441	96.889
m,p-Xylenes	10.916	10.916	74365	93.576
o-Xylene	11.766	11.766	63641	94.985
Bromofluorobenzene (PID)	12.666	12.666	446372	732.518

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,btxe,s37506,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-021
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/6/2018 12:59:58 AM
 Analysis Date: 10/6/2018 1:28:41 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

=====
 Manual Integration Fixes

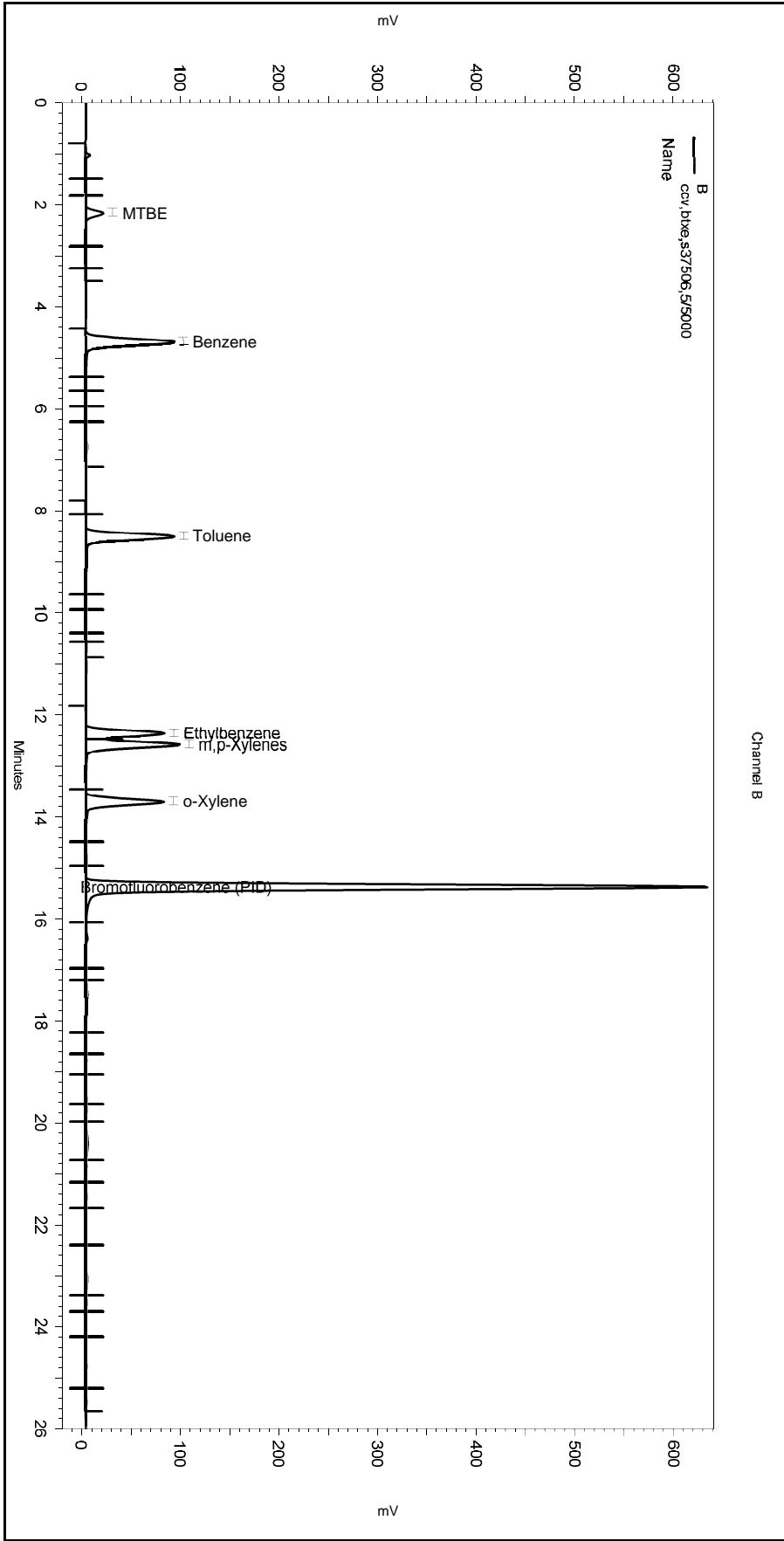
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-021_7D20.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,btxe,s37506,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-021
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe277.met

Software Version 3.1.7
 Run Date: 10/6/2018 12:59:58 AM
 Analysis Date: 10/6/2018 1:28:41 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0
Yes	Horizontal Baseline	0.646	26.017	0

=====
 Manual Integration Fixes

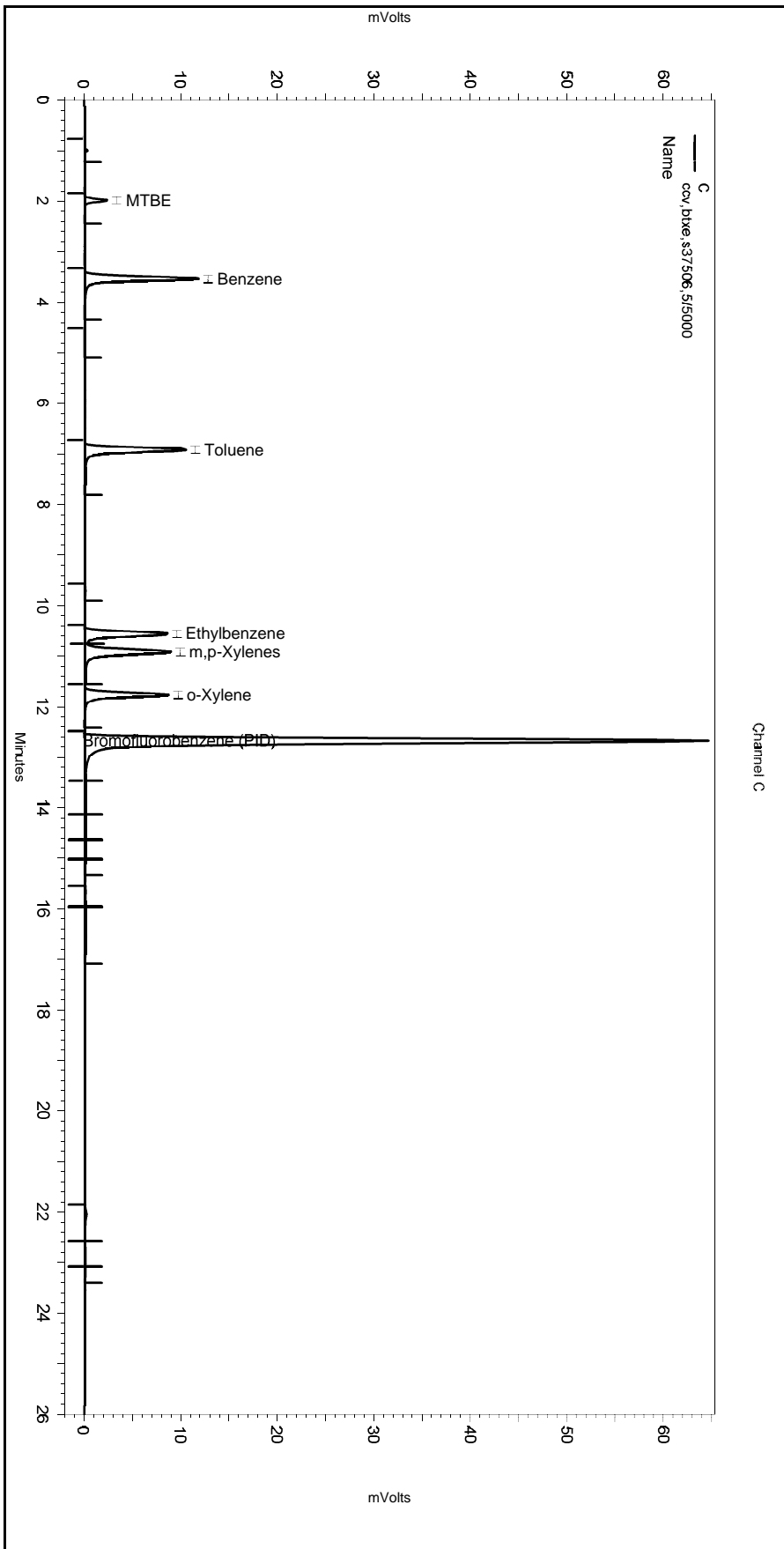
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-021_7D20.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2018\278.seq
 Sample Name: ccv,btxe,s37506,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\278-021
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe277.met

Software Version 3.1.7
 Run Date: 10/6/2018 12:59:58 AM
 Analysis Date: 10/6/2018 1:28:41 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\278-021_7D20.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 303845

ANALYTICAL REPORT

TPH-Extractables by GC

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02A.01
Location : Riley Avenue
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	303845-001
BR11-1GW02	303845-002
BR11-1GW03	303845-003
DUP10032018-01	303845-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 10/19/2018

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE
TPH-EXTRACTABLES BY GC (EPA 8015B)

Laboratory number: **303845**
Client: **TRC Solutions**
Project: **285830.02A.01**
Location: **Riley Avenue**
Request Date: **10/03/18**
Samples Received: **10/03/18**

This data package contains sample and QC results for four water samples, requested for the above referenced project on 10/03/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 203045
 Date Received: 10/3/18

Client: TRE solutions
 Project: _____



Section 2: Samples received in a cooler? Yes, how many? 1 No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # A, or B

Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 10/3/18 By (print) AC (sign) [Signature]

Shipping info (if applicable) _____

Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package

Date: _____ How many _____ Signature, Initials, None

Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important : Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

Samples received on ice directly from the field. Cooling process had begun

Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No

Temperature measured using Thermometer ID: _____, or IR Gun # A B

Cooler Temp (°C): #1: 2.1, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?		<input checked="" type="checkbox"/>	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for preserved terracores?			<input checked="" type="checkbox"/>
Are bubbles > 6mm absent in VOA samples?	<input checked="" type="checkbox"/>		
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			<input checked="" type="checkbox"/>
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

- H2SO4 lot# _____ added to samples _____ on/at _____
- HCL lot# _____ added to samples _____ on/at _____
- HNO3 lot# _____ added to samples _____ on/at _____
- NaOH lot# _____ added to samples _____ on/at _____

Section 6:
 Explanations/Comments: _____

Date Logged in 10/3/18 By (print) AC (sign) [Signature]
 Date Labeled 10/4/18 By (print) DO (sign) [Signature]

Results & QC Summary

Total Extractable Hydrocarbons			
Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	10/03/18
Units:	ug/L	Received:	10/03/18
Diln Fac:	1.000	Prepared:	10/09/18
Batch#:	264364		

Field ID: DUP10032018-01
 Type: SAMPLE

Lab ID: 303845-004
 Cleanup Method: EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C10-C24	55 Y Z	49	10/15/18
Diesel C10-C24 (SGCU)	ND	49	10/10/18
Motor Oil C24-C36	ND	290	10/15/18
Motor Oil C24-C36 (SGCU)	ND	290	10/10/18

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	103	58-123	10/15/18
o-Terphenyl (SGCU)	87	58-123	10/10/18

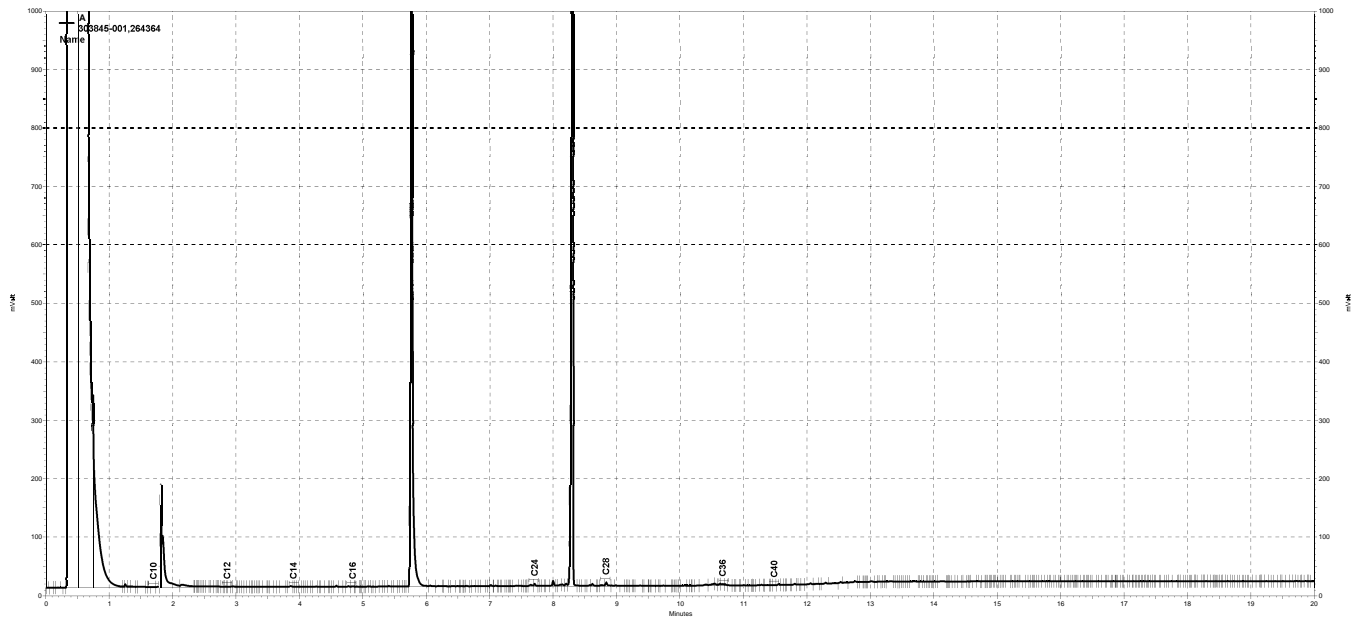
Type: BLANK
 Lab ID: QC951074

Analyzed: 10/10/18
 Cleanup Method: EPA 3630C

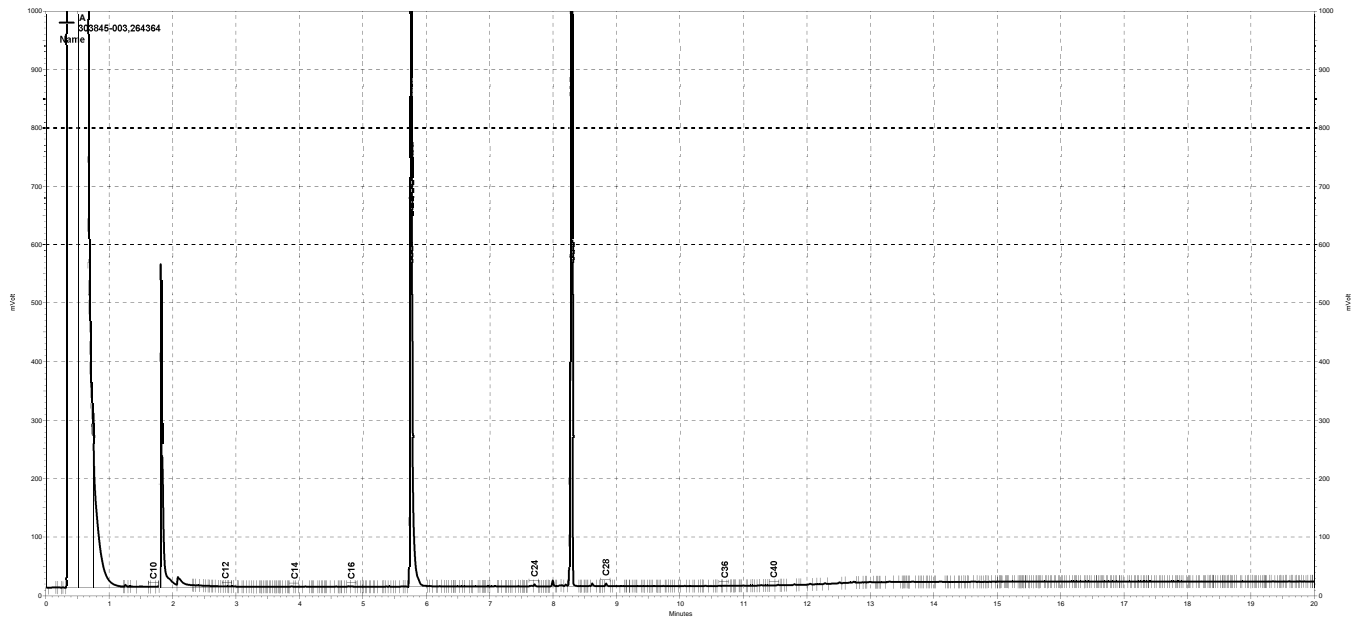
Analyte	Result	RL
Diesel C10-C24	ND	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	ND	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
o-Terphenyl	95	58-123
o-Terphenyl (SGCU)	109	58-123

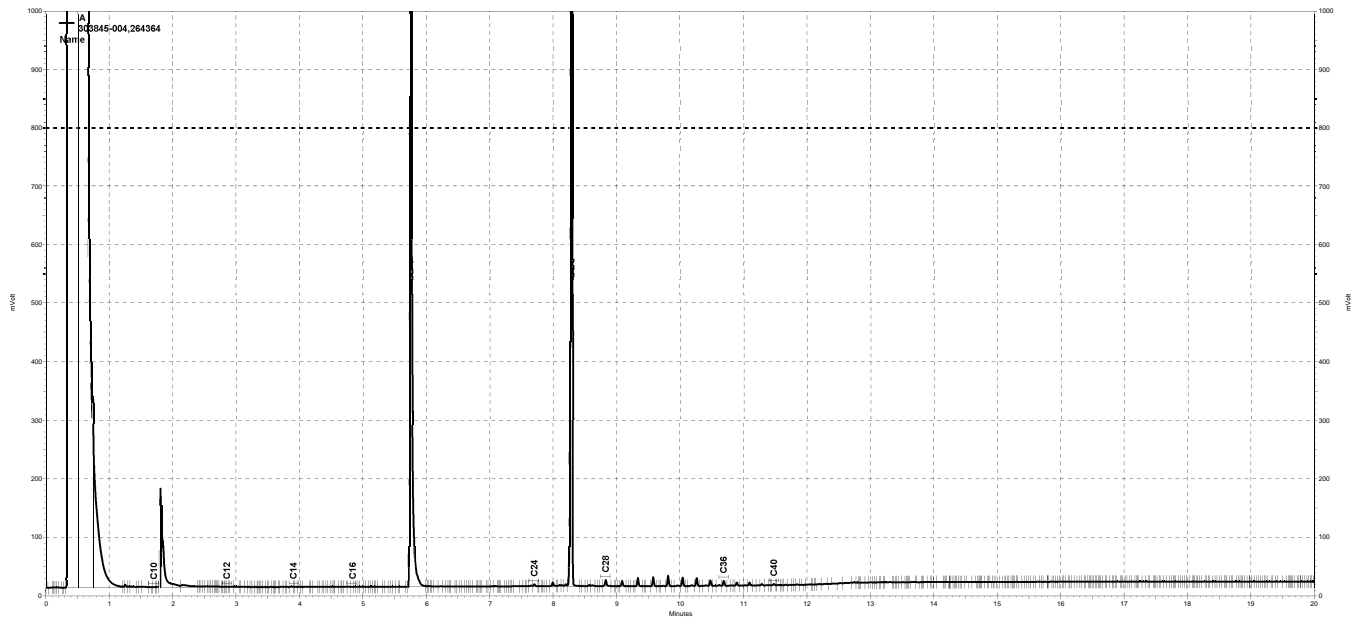
Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup



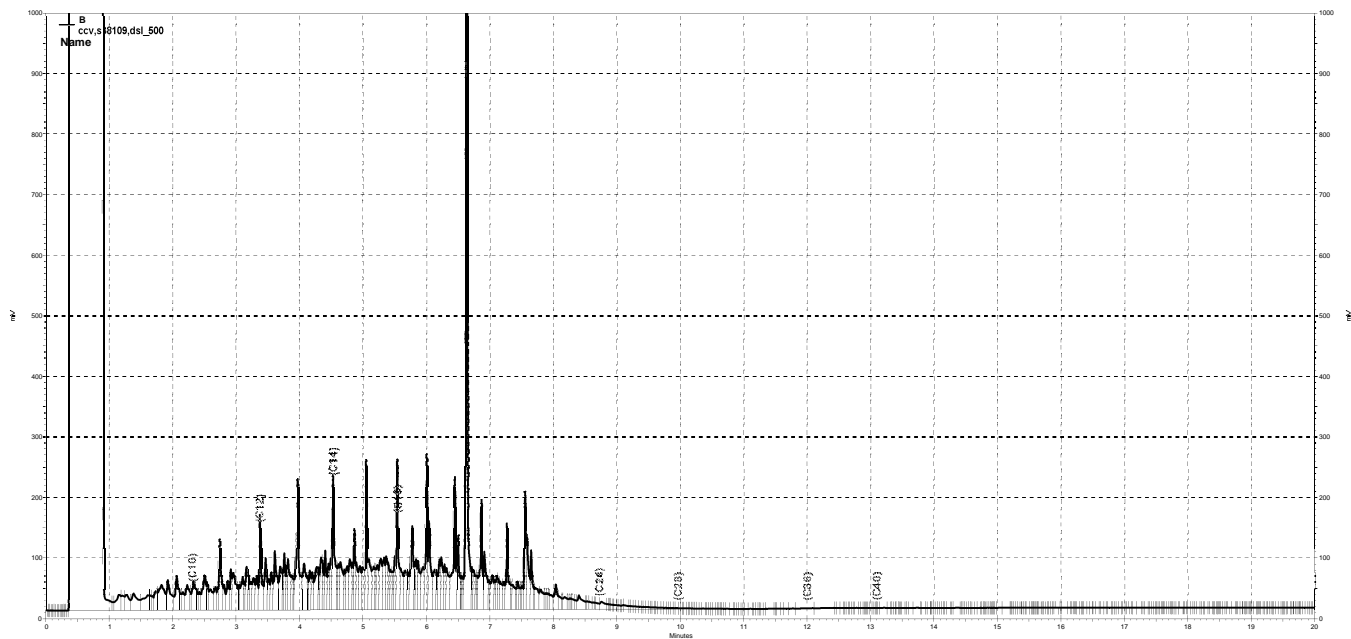
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a017, A



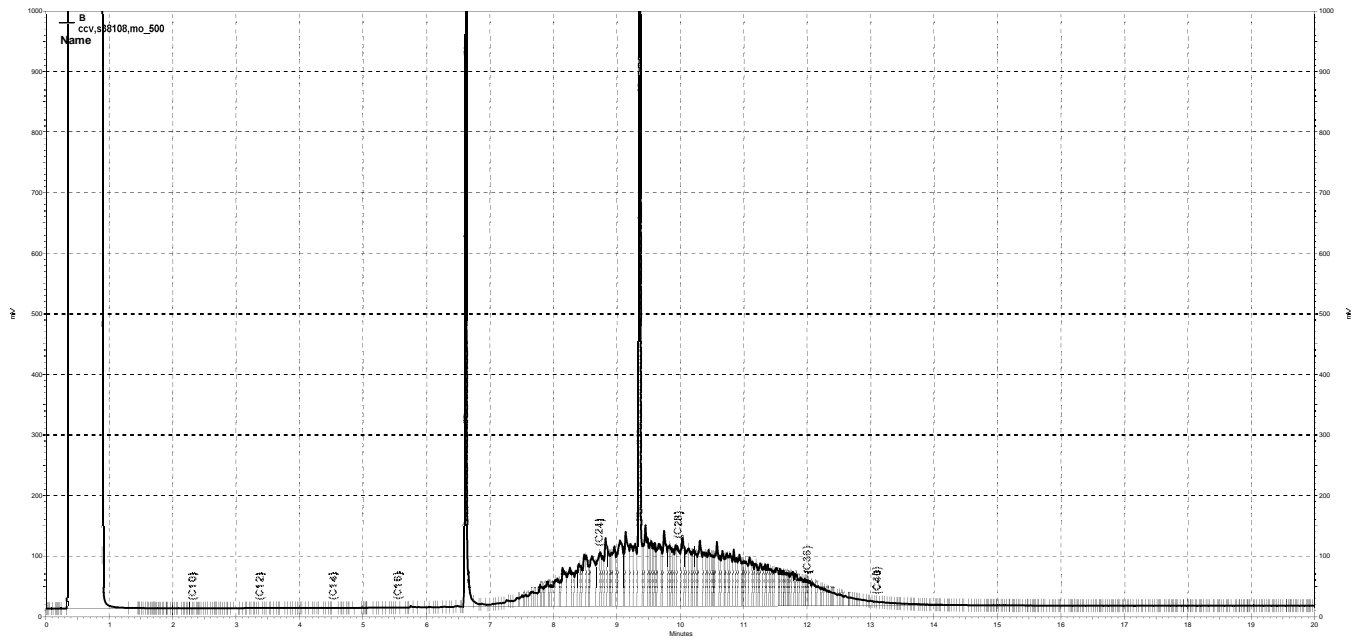
— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a019, A



\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a020, A



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b003, B



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004, B

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1 Date: 04/25/18 Reviewer: EAH Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228263897001
 Units : mg/L

Name : HEXOTP_183
 Date : 03-JUL-2018 00:37
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	183_033	228263897033	HEX OTP_2.5	03-JUL-2018 00:37	S36499 (2X)
L2	183_034	228263897034	HEX OTP_5	03-JUL-2018 01:06	S36499
L3	183_035	228263897035	HEX OTP_10	03-JUL-2018 01:34	S36500
L4	183_036	228263897036	HEX OTP_25	03-JUL-2018 02:03	S36501
L5	183_037	228263897037	HEX OTP_50	03-JUL-2018 02:31	S36502
L6	183_038	228263897038	HEX OTP_100	03-JUL-2018 03:00	S36503

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	56266	54969	58095	56045	53979	52579	AVRG		1.81E-5		55322	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	2	5.0000	-1	10.000	5	25.000	1	50.000	-2	100.00	-5

WA1 07/03/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 07/03/18

Reviewer: TKM

Date: 07/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC26A
 Calnum : 868380491001
 Units : mg/L

Name : DSL_264
 Date : 21-SEP-2018 08:49
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	264a008	868380491008	DSL_10	21-SEP-2018 08:49	S38234
L2	264a009	868380491009	DSL_100	21-SEP-2018 09:18	S38235
L3	264a010	868380491010	DSL_500	21-SEP-2018 09:47	S38236
L4	264a011	868380491011	DSL_1000	21-SEP-2018 10:16	S38237
L5	264a012	868380491012	DSL_5000	21-SEP-2018 10:45	S38233

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	49825	56833	59201	59168	59441	AVRG		1.76E-5		56893	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-12	100.00	0	500.00	4	1000.0	4	5000.0	4

CB1 09/24/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 09/24/18

Reviewer: EAH

Date: 09/24/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCSV Water
EPA 8015B

Inst : GC26A
Calnum : 868380491001

Name : DSL_264
Cal Date : 21-SEP-2018

ICV 868380491014 (264a014 21-SEP-2018) stds: S38109

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	492.7	mg/L	-1	15	

WA1: 09/21/18 * CB1: 09/24/18 EAH: 09/24/18

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC26A
 Calnum : 868397771001
 Units : mg/L

Name : Hexotp_276
 Date : 03-OCT-2018 08:28
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	276a006	868397771006	HEX OTP_2.5	03-OCT-2018 08:28	S38295 (2X)
L2	276a007	868397771007	HEX OTP_5	03-OCT-2018 08:56	S38295
L3	276a008	868397771008	HEX OTP_10	03-OCT-2018 09:23	S38296
L4	276a009	868397771009	HEX OTP_25	03-OCT-2018 09:51	S38297
L5	276a010	868397771010	HEX OTP_50	03-OCT-2018 10:19	S38299 (2X)
L6	276a011	868397771011	HEX OTP_100	03-OCT-2018 10:46	S38299

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	64460	65925	67498	68082	72483	67987	AVRG		1.48E-5		67739	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	-5	5.0000	-3	10.000	0	25.000	1	50.000	7	100.00	0

WA1 10/03/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: WA1

Date: 10/03/18

Reviewer: TKM

Date: 10/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC26A
 Calnum : 868409292001
 Units : mg/L

Name : MO_284
 Date : 11-OCT-2018 06:56
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	284a004	868409292004	MO_50	11-OCT-2018 06:56	S36946
L2	284a005	868409292005	MO_250	11-OCT-2018 07:24	S36948
L3	284a006	868409292006	MO_500	11-OCT-2018 07:52	S36949
L4	284a007	868409292007	MO_1000	11-OCT-2018 08:20	S36951
L5	284a008	868409292008	MO_2500	11-OCT-2018 08:49	S36926 (2X)
L6	284a009	868409292009	MO_5000	11-OCT-2018 09:17	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	37418	41939	44375	45287	44635	47347	AVRG		2.30E-5		43500	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-14	250.00	-4	500.00	2	1000.0	4	2500.0	3	5000.0	9

CB1 10/12/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 10/12/18

Reviewer: EAH

Date: 10/12/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCSV Water
EPA 8015B

Inst : GC26A
Calnum : 868409292001

Name : MO_284
Cal Date : 11-OCT-2018

ICV 868409292011 (284a011 11-OCT-2018) stds: S38108

Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	510.1	mg/L	2	15	

Analyst: CB1

Date: 10/12/18

Reviewer: EAH

Date: 10/12/18

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 978335887001
 Units : mg/L

Name : DSL_233
 Date : 21-AUG-2018 17:26
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	233a015	978335887015	DSL_10	21-AUG-2018 17:26	S36610
L2	233a016	978335887016	DSL_100	21-AUG-2018 17:51	S36611
L3	233a017	978335887017	DSL_500	21-AUG-2018 18:16	S36613
L4	233a018	978335887018	DSL_1000	21-AUG-2018 18:41	S36615
L5	233a019	978335887019	DSL_5000	21-AUG-2018 19:06	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	402979	449458	508144	494644	471794	AVRG		2.15E-6		465404	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-13	100.00	-3	500.00	9	1000.0	6	5000.0	1

CB1 08/22/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 08/22/18

Reviewer: EAH

Date: 08/23/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A
Calnum : 978335887001

Name : DSL_233
Cal Date : 21-AUG-2018

ICV 978335887021 (233a021 21-AUG-2018) stds: S37561

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	489.0	mg/L	-2	15	

Analyst: CB1

Date: 08/22/18

Reviewer: AMP

Date: 08/22/18

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 978335887002
 Units : mg/L

Name : MO_233
 Date : 21-AUG-2018 20:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	233a023	978335887023	MO_50	21-AUG-2018 20:46	S36946
L2	233a024	978335887024	MO_250	21-AUG-2018 21:12	S36948
L3	233a025	978335887025	MO_500	21-AUG-2018 21:37	S36949
L4	233a026	978335887026	MO_1000	21-AUG-2018 22:02	S36951
L5	233a027	978335887027	MO_2500	21-AUG-2018 22:27	S36926 (2X)
L6	233a028	978335887028	MO_5000	21-AUG-2018 22:52	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Motor Oil C24-C36	300221	326649	328636	333767	329981	321620	AVRG		3.09E-6		323479	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-7	250.00	1	500.00	2	1000.0	3	2500.0	2	5000.0	-1

CB1 08/22/18 : Corrected automatically drawn baseline in all levels.

CB1: 08/22/18 AMP: 08/22/18 EAH: 08/22/18

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A
Calnum : 978335887002

Name : MO_233
Cal Date : 21-AUG-2018

ICV 978335887030 (233a030 21-AUG-2018) stds: S37711

Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	490.5	mg/L	-2	15	

Analyst: CB1

Date: 08/22/18

Reviewer: AMP

Date: 08/22/18

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 978348840001
 Units : mg/L

Name : HEXOTP_242
 Date : 30-AUG-2018 13:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	242a010	978348840010	HEX OTP_2.5	30-AUG-2018 13:46	S36499 (2X)
L2	242a011	978348840011	HEX OTP_5	30-AUG-2018 14:11	S36499
L3	242a012	978348840012	HEX OTP_10	30-AUG-2018 14:36	S36500
L4	242a013	978348840013	HEX OTP_25	30-AUG-2018 15:02	S36501
L5	242a014	978348840014	HEX OTP_50	30-AUG-2018 15:27	S36503 (2X)
L6	242a015	978348840015	HEX OTP_100	30-AUG-2018 15:52	S36503

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	548536	551187	559001	552245	551309	551953	AVRG		1.81E-6		552372	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	-1	5.0000	0	10.000	1	25.000	0	50.000	0	100.00	0

WA1 08/30/18 : Corrected automatically drawn baseline in all levels.

Analyst: WA1

Date: 08/30/18

Reviewer: TKM

Date: 08/30/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

Carbon Marker Run

Inst : GC14B
 Seqnum : 228394938012
 Standards: S37406

Run Name : C8-C40
 File : 274_012

IDF : 1.0
 Time : 01-OCT-2018 16:54

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	2.037	+/- 4.5s (0.075m)	1.962 - 2.112
C12 - n-Dodecane	B	3.37	+/- 4.5s (0.075m)	3.295 - 3.445
C14 - n-Tetradecane	B	4.528	+/- 4.5s (0.075m)	4.453 - 4.603
C16 - n-Hexadecane	B	5.547	+/- 4.5s (0.075m)	5.472 - 5.622
C18 - n-Octadecane	B	6.452	+/- 4.5s (0.075m)	6.377 - 6.527
C20 - n-Eicosane	B	7.277	+/- 4.5s (0.075m)	7.202 - 7.352
C22 - n-Docosane	B	8.03	+/- 4.5s (0.075m)	7.955 - 8.105
C24 - n-Tetracosane	B	8.723	+/- 4.5s (0.075m)	8.648 - 8.798
C28 - n-Octacosane	B	9.96	+/- 4.5s (0.075m)	9.885 - 10.035
C30 - n-Triacontane	B	10.52	+/- 4.5s (0.075m)	10.445 - 10.595
C32 - n-Dotriacontane	B	11.042	+/- 4.5s (0.075m)	10.967 - 11.117
C34 - n-Tetracontane	B	11.535	+/- 4.5s (0.075m)	11.460 - 11.610
C36 - n-Hexatriacontane	B	11.998	+/- 4.5s (0.075m)	11.923 - 12.073
C40 - n-Tetracontane	B	13.092	+/- 4.5s (0.075m)	13.017 - 13.167

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	1.962	5.622
Diesel C10-C22	B	1.962	8.105
Diesel C10-C24	B	1.962	8.798
Diesel C10-C28	B	1.962	10.035
Diesel C12-C24	B	3.295	8.798
Diesel C12-C28	B	3.295	10.035
Diesel C16-C24	B	5.472	8.798
Motor Oil C22-C32	B	7.955	11.117
Motor Oil C24-C36	B	8.648	12.073
Motor Oil C28-C40	B	9.885	13.167
Bunker C C10-C40	B	1.962	13.167
Bunker C C12-C40	B	3.295	13.167
Diesel C10-C14	B	1.962	4.603
Diesel C14-C24	B	4.453	8.798

EZChrom method retention times successfully validated.

Analyst: WA1

Date: 10/01/18 *

Reviewer: EAH

Date: 10/01/18 *

Carbon Marker Run

Inst : GC26A
 Seqnum : 868415085016
 Standards: S38220

Run Name : C8-C40
 File : 288a016

IDF : 1.0
 Time : 15-OCT-2018 14:41

Analyte	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	1.702	+/- 4.5s (0.075m)	1.627 - 1.777
C12 - n-Dodecane	2.858	+/- 4.5s (0.075m)	2.783 - 2.933
C14 - n-Tetradecane	3.915	+/- 4.5s (0.075m)	3.840 - 3.990
C16 - n-Hexadecane	4.82	+/- 4.5s (0.075m)	4.745 - 4.895
C18 - n-Octadecane	5.633	+/- 4.5s (0.075m)	5.558 - 5.708
C20 - n-Eicosane	6.382	+/- 4.5s (0.075m)	6.307 - 6.457
C22 - n-Docosane	7.062	+/- 4.5s (0.075m)	6.987 - 7.137
C24 - n-Tetracosane	7.693	+/- 4.5s (0.075m)	7.618 - 7.768
C28 - n-Octacosane	8.823	+/- 4.5s (0.075m)	8.748 - 8.898
C30 - n-Triacontane	9.332	+/- 4.5s (0.075m)	9.257 - 9.407
C32 - n-Dotriacontane	9.812	+/- 4.5s (0.075m)	9.737 - 9.887
C34 - n-Tetratriacontane	10.265	+/- 4.5s (0.075m)	10.190 - 10.340
C36 - n-Hexatriacontane	10.69	+/- 4.5s (0.075m)	10.615 - 10.765
C40 - n-Tetracontane	11.482	+/- 4.5s (0.075m)	11.407 - 11.557

Carbon Range	Range Start	Range Stop
JP-5 C10-C16	1.627	4.895
Diesel C10-C22	1.627	7.137
Diesel C10-C24	1.627	7.768
Diesel C10-C28	1.627	8.898
Diesel C12-C24	2.783	7.768
Diesel C12-C28	2.783	8.898
Diesel C16-C24	4.745	7.768
Motor Oil C22-C32	6.987	9.887
Motor Oil C24-C36	7.618	10.765
Motor Oil C28-C40	8.748	11.557
Bunker C C10-C40	1.627	11.557
Bunker C C12-C40	2.783	11.557
Diesel C10-C14	1.627	3.990
Diesel C14-C24	3.840	7.768

EZChrom method retention times successfully validated.

Analyst: WA1

Date: 10/15/18

Reviewer: EAH

Date: 10/15/18

Carbon Marker Run

Inst : GC27A
 Seqnum : 978405005007
 Standards: S37406

Run Name : C8-C40
 File : 281a007

IDF : 1.0
 Time : 08-OCT-2018 12:22

Analyte	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	2.39	+/- 4.5s (0.075m)	2.315 - 2.465
C12 - n-Dodecane	3.537	+/- 4.5s (0.075m)	3.462 - 3.612
C14 - n-Tetradecane	4.593	+/- 4.5s (0.075m)	4.518 - 4.668
C16 - n-Hexadecane	5.527	+/- 4.5s (0.075m)	5.452 - 5.602
C18 - n-Octadecane	6.365	+/- 4.5s (0.075m)	6.290 - 6.440
C20 - n-Eicosane	7.132	+/- 4.5s (0.075m)	7.057 - 7.207
C22 - n-Docosane	7.837	+/- 4.5s (0.075m)	7.762 - 7.912
C24 - n-Tetracosane	8.483	+/- 4.5s (0.075m)	8.408 - 8.558
C28 - n-Octacosane	9.647	+/- 4.5s (0.075m)	9.572 - 9.722
C30 - n-Triacontane	10.173	+/- 4.5s (0.075m)	10.098 - 10.248
C32 - n-Dotriacontane	10.667	+/- 4.5s (0.075m)	10.592 - 10.742
C34 - n-Tetratriacontane	11.132	+/- 4.5s (0.075m)	11.057 - 11.207
C36 - n-Hexatriacontane	11.572	+/- 4.5s (0.075m)	11.497 - 11.647
C40 - n-Tetracontane	12.398	+/- 4.5s (0.075m)	12.323 - 12.473

Carbon Range	Range Start	Range Stop
JP-5 C10-C16	2.315	5.602
Diesel C10-C22	2.315	7.912
Diesel C10-C24	2.315	8.558
Diesel C10-C28	2.315	9.722
Diesel C12-C24	3.462	8.558
Diesel C12-C28	3.462	9.722
Diesel C16-C24	5.452	8.558
Motor Oil C22-C32	7.762	10.742
Motor Oil C24-C36	8.408	11.647
Motor Oil C28-C40	9.572	12.473
Bunker C C10-C40	2.315	12.473
Bunker C C12-C40	3.462	12.473
Diesel C10-C14	2.315	4.668
Diesel C14-C24	4.518	8.558

EZChrom method retention times successfully validated.

Analyst: WA1

Date: 10/08/18

Reviewer: EAH

Date: 10/08/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228407852003 File : 283_003 Time : 10-OCT-2018 06:28
 Standards: S38109

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	45189	500.0	502.1	mg/L	0	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	54941	50.00	49.66	mg/L	-1	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228407852004 File : 283_004 Time : 10-OCT-2018 06:56
 Standards: S38108

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	32556	500.0	547.8	mg/L	10	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	52834	50.00	47.75	mg/L	-4	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
 Seqnum : 228407852012 File : 283_012 Time : 10-OCT-2018 12:59
 Standards: S37057

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	45375	250.0	252.1	mg/L	1	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	52108	50.00	47.09	mg/L	-6	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228407852013 File : 283_013 Time : 10-OCT-2018 13:27
 Standards: S38108

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	32294	500.0	543.4	mg/L	9	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	52339	50.00	47.30	mg/L	-5	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 868415085014 File : 288a014 Time : 15-OCT-2018 13:45
 Standards: S37058

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868380491001	21-SEP-2018	56893	58981	1000	1037	mg/L	4	15	
o-Terphenyl	868397771001	03-OCT-2018	67739	72447	50.00	53.47	mg/L	7	15	

WA1 10/15/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 10/15/18 Reviewer: EAH Date: 10/15/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
 Seqnum : 868415085015.3 File : 288a015 Time : 15-OCT-2018 14:13
 Standards: S38108

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	868409292001	11-OCT-2018	43500	41785	500.0	480.3	mg/L	-4	15	
o-Terphenyl	868397771001	03-OCT-2018	67739	69899	50.00	51.59	mg/L	3	15	

WA1 10/15/18 : Corrected automatically drawn baseline.

EAH: 10/15/18 * WA1: 10/15/18 * CB1: 10/17/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 868415085030 File : 288a030 Time : 15-OCT-2018 21:42
 Standards: S37058

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	868380491001	21-SEP-2018	56893	62457	1000	1098	mg/L	10	15	
o-Terphenyl	868397771001	03-OCT-2018	67739	76455	50.00	56.43	mg/L	13	15	

CB1 10/16/18 : ccv,s37058,dsl_1000

CB1 10/16/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/16/18 Reviewer: EAH Date: 10/16/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
 Seqnum : 868415085031 File : 288a031 Time : 15-OCT-2018 22:10
 Standards: S38108

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	868409292001	11-OCT-2018	43500	42075	500.0	483.6	mg/L	-3	15	
o-Terphenyl	868397771001	03-OCT-2018	67739	73646	50.00	54.36	mg/L	9	15	

CB1 10/16/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/16/18 Reviewer: EAH Date: 10/16/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : DSL_500 IDF : 1.0
 Seqnum : 978407882003 File : 283a003 Time : 10-OCT-2018 06:53
 Standards: S38109

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978335887001	21-AUG-2018	465404	461729	500.0	496.1	mg/L	-1	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	589135	50.00	53.33	mg/L	7	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978407882004 File : 283a004 Time : 10-OCT-2018 07:18
 Standards: S38108

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978335887002	21-AUG-2018	323479	332383	500.0	513.8	mg/L	3	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	570009	50.00	51.60	mg/L	3	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : BUNK_500 IDF : 1.0
 Seqnum : 978407882013 File : 283a013 Time : 10-OCT-2018 13:41
 Cal : 978348840001 Caldate : 30-AUG-2018
 Standards: S38190

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	552372	607845	50.00	55.02	mg/L	10	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : DSL_250 IDF : 1.0
 Seqnum : 978407882017 File : 283a017 Time : 10-OCT-2018 15:22
 Standards: S37057

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978335887001	21-AUG-2018	465404	462879	250.0	248.6	mg/L	-1	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	576332	50.00	52.17	mg/L	4	15	

WA1 10/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978407882018 File : 283a018 Time : 10-OCT-2018 15:47
 Standards: S38108

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978335887002	21-AUG-2018	323479	324642	500.0	501.8	mg/L	0	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	569687	50.00	51.57	mg/L	3	15	

WA1 10/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 978407882029 File : 283a029 Time : 10-OCT-2018 20:24
 Standards: S37058

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978335887001	21-AUG-2018	465404	476961	1000	1025	mg/L	2	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	604455	50.00	54.71	mg/L	9	15	

CB1 10/11/18 : Corrected automatically drawn baseline.

CB1 10/11/18 : ccv,s37058,dsl_1000

Analyst: CB1 Date: 10/11/18 Reviewer: EAH Date: 10/11/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978407882030 File : 283a030 Time : 10-OCT-2018 20:49
 Standards: S38108

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978335887002	21-AUG-2018	323479	309070	500.0	477.7	mg/L	-4	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	565062	50.00	51.15	mg/L	2	15	

CB1 10/11/18 : Corrected automatically drawn baseline.

CB1 10/11/18 : ccv,s38108,mo_500

Analyst: CB1 Date: 10/11/18 Reviewer: EAH Date: 10/11/18

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/18 06:10
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	113_001	IB					04/23/18 06:10	1.0	
002	113_002	IB					04/23/18 06:38	1.0	
003	113_003	X	CMARKER				04/23/18 07:06	1.0	1
004	113_004	CCV	DSL_500				04/23/18 07:34	1.0	2
005	113_005	CCV	MO_500				04/23/18 08:35	1.0	3
006	113_006	CCV	DSL_500				04/23/18 09:02	1.0	2
007	113_007	IB					04/23/18 12:40	1.0	
008	113_008	X	CMARKER				04/23/18 13:07	1.0	1
009	113_009	CCV	DSL_500				04/23/18 13:35	1.0	2
010	113_010	CCV	MO_500				04/23/18 14:03	1.0	3
012	113_012	IB					04/23/18 15:27	1.0	
013	113_013	SAMPLE	299115-001		Soil	258772	04/23/18 16:57	1.0	
014	113_014	SAMPLE	299115-002		Soil	258772	04/23/18 17:25	1.0	
015	113_015	SAMPLE	299115-003		Soil	258772	04/23/18 17:53	1.0	
016	113_016	SAMPLE	299115-004		Soil	258772	04/23/18 18:20	1.0	
017	113_017	SAMPLE	299056-001		Soil	258772	04/23/18 18:48	2.0	
018	113_018	IB					04/23/18 19:16	1.0	
019	113_019	SAMPLE	299117-001		Soil	258772	04/23/18 19:44	1.0	
020	113_020	SAMPLE	299117-002		Soil	258772	04/23/18 20:11	1.0	
021	113_021	MS	QC929007	S	Soil	258726	04/23/18 20:39	1.0	
022	113_022	MSD	QC929008	S	Soil	258726	04/23/18 21:07	1.0	
023	113_023	IB					04/23/18 21:35	1.0	
024	113_024	CCV	DSL_250				04/23/18 22:03	1.0	4
025	113_025	CCV	MO_500				04/23/18 22:31	1.0	3
026	113_026	X	CMARKER				04/23/18 22:59	1.0	1
027	113_027	BLANK	QC929171		Soil	258772	04/23/18 23:27	1.0	
028	113_028	LCS	QC929172		Soil	258772	04/23/18 23:55	1.0	
029	113_029	MSS	299056-002		Soil	258772	04/24/18 00:23	1.0	
030	113_030	MS	QC929173		Soil	258772	04/24/18 00:51	1.0	
031	113_031	MSD	QC929174		Soil	258772	04/24/18 01:19	1.0	
032	113_032	SAMPLE	299118-001		Soil	258772	04/24/18 01:47	1.0	
033	113_033	SAMPLE	299119-001		Soil	258772	04/24/18 02:14	1.0	
034	113_034	IB					04/24/18 02:42	1.0	
035	113_035	SAMPLE	299126-001		Soil	258772	04/24/18 03:10	1.0	
036	113_036	SAMPLE	299126-002		Soil	258772	04/24/18 03:38	1.0	
037	113_037	SAMPLE	299116-001		Soil	258772	04/24/18 04:06	1.0	
038	113_038	SAMPLE	299116-002		Soil	258772	04/24/18 04:34	1.0	
039	113_039	IB					04/24/18 05:02	1.0	
040	113_040	CCV	DSL_500				04/24/18 05:30	1.0	2
041	113_041	CCV	MO_500				04/24/18 05:58	1.0	3
042	113_042	X	CMARKER				04/24/18 06:26	1.0	1
043	113_043	SAMPLE	299056-005		Soil	258786	04/24/18 07:10	1.0	
044	113_044	SAMPLE	299056-006		Soil	258786	04/24/18 07:38	1.0	
045	113_045	SAMPLE	299055-001		Soil	258786	04/24/18 08:10	1.0	
046	113_046	SAMPLE	299055-002		Soil	258786	04/24/18 08:38	1.0	
047	113_047	SAMPLE	299055-004		Soil	258786	04/24/18 09:06	1.0	
048	113_048	SAMPLE	299055-005		Soil	258786	04/24/18 09:34	1.0	
049	113_049	SAMPLE	299055-006		Soil	258786	04/24/18 10:02	1.0	
050	113_050	SAMPLE	299055-007		Soil	258786	04/24/18 10:30	1.0	
051	113_051	CCV	DSL_1000				04/24/18 10:58	1.0	5
052	113_052	CCV	MO_500				04/24/18 11:26	1.0	3
053	113_053	X	CMARKER				04/24/18 11:54	1.0	1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228163090

Instrument : GC14B Begun : 04/23/18 06:10
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
054	113_054	CCV	DSL_1000				04/24/18 12:22	1.0	5
055	113_055	CCV	DSL_1000				04/24/18 12:50	1.0	5
056	113_056	IB					04/24/18 16:52	1.0	
057	113_057	IB	CALIB				04/24/18 17:20	1.0	
058	113_058	ICAL	HEX OTP_5				04/24/18 17:47	1.0	6
059	113_059	ICAL	HEX OTP_10				04/24/18 18:15	1.0	7
060	113_060	ICAL	HEX OTP_25				04/24/18 18:43	1.0	8
061	113_061	ICAL	HEX OTP_50				04/24/18 19:10	1.0	9
062	113_062	ICAL	HEX OTP_100				04/24/18 19:38	1.0	10
063	113_063	ICAL	HEX OTP_200				04/24/18 20:06	1.0	11
064	113_064	IB	CALIB				04/24/18 20:33	1.0	
065	113_065	ICAL	DSL_10				04/24/18 21:01	1.0	12
066	113_066	ICAL	DSL_100				04/24/18 21:29	1.0	13
067	113_067	ICAL	DSL_500				04/24/18 21:57	1.0	14
068	113_068	ICAL	DSL_1000				04/24/18 22:25	1.0	15
069	113_069	ICAL	DSL_5000				04/24/18 22:53	1.0	16
070	113_070	IB	CALIB				04/24/18 23:21	1.0	
071	113_071	ICV	DSL_500				04/24/18 23:49	1.0	17
072	113_072	IB	CALIB				04/25/18 00:17	1.0	
073	113_073	ICAL	MO_50				04/25/18 00:45	1.0	18
074	113_074	ICAL	MO_250				04/25/18 01:13	1.0	19
075	113_075	ICAL	MO_500				04/25/18 01:41	1.0	20
076	113_076	ICAL	MO_1000				04/25/18 02:09	1.0	21
077	113_077	ICAL	MO_2500				04/25/18 02:37	1.0	22
078	113_078	ICAL	MO_5000				04/25/18 03:05	1.0	22
079	113_079	IB	CALIB				04/25/18 03:33	1.0	
080	113_080	CMARKER	C8-C50				04/25/18 04:01	1.0	23
081	113_081	IB	CALIB				04/25/18 04:29	1.0	

CB1 04/25/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 81.

CB1 04/23/18 : Hardware failure (bent syringe) for run at position 4, RR DSL opening CCV.

WA1 04/23/18 : Position 11 was mis-injected.

Standards used: 1=S36439 2=S36226 3=S36621 4=S36285 5=S35149 6=S36499 7=S36500 8=S36501 9=S36502 10=S36503 11=S36504
 12=S36610 13=S36611 14=S36613 15=S36615 16=S36609 17=S35164 18=S34924 19=S34925 20=S34926 21=S34927 22=S34923
 23=S35483

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228223554

Instrument : GC14B
 Method : EPA 8015B

Begun : 06/04/18 05:54
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	155_001	IB				06/04/18 05:54	1.0	
002	155_002	CCV	DSL_500			06/04/18 06:22	1.0	1
003	155_003	CCV	MO_500			06/04/18 06:51	1.0	2
004	155_004	X	CMARKER			06/04/18 07:19	1.0	3
005	155_005	CCV	JET_250			06/04/18 08:37	1.0	4
006	155_006	BLANK	QC934363	Water	260120	06/04/18 11:26	1.0	
007	155_007	BS	QC934364	Water	260120	06/04/18 11:54	1.0	
008	155_008	BSD	QC934365	Water	260120	06/04/18 12:23	1.0	
009	155_009	SAMPLE	300258-001	Water	260120	06/04/18 12:51	1.0	
010	155_010	CCV	DSL_1000			06/04/18 13:19	1.0	5
011	155_011	CCV	MO_500			06/04/18 14:54	1.0	2
012	155_012	CCV	JET_250			06/04/18 15:23	1.0	4
013	155_013	X	CMARKER			06/04/18 15:51	1.0	3
014	155_014	IB				06/04/18 16:20	1.0	
015	155_015	IB	CALIB			06/04/18 16:48	1.0	
016	155_016	ICAL	MO_50			06/04/18 17:17	1.0	6
017	155_017	ICAL	MO_250			06/04/18 17:45	1.0	7
018	155_018	ICAL	MO_500			06/04/18 18:14	1.0	8
019	155_019	ICAL	MO_1000			06/04/18 18:43	1.0	9
020	155_020	ICAL	MO_2500			06/04/18 19:11	1.0	10
021	155_021	ICAL	MO_5000			06/04/18 19:39	1.0	10
022	155_022	IB	CALIB			06/04/18 20:08	1.0	
023	155_023	CMARKER	C8-C40			06/04/18 20:36	1.0	3
024	155_024	IB	CALIB			06/04/18 21:04	1.0	

CB1 06/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	183_001	IB					07/02/18 06:17	1.0	
002	183_002	IB					07/02/18 06:46	1.0	
003	183_003	X	CMARKER				07/02/18 07:14	1.0	1
004	183_004	CCV	DSL_500				07/02/18 07:43	1.0	2
005	183_005	CCV	MO_500				07/02/18 08:11	1.0	3
006	183_006	BLANK	QC937860		Water	260995	07/02/18 10:57	1.0	
007	183_007	LCS	QC937861		Water	260995	07/02/18 11:26	1.0	
008	183_008	MSS	301108-001		Water	260995	07/02/18 11:54	1.0	
009	183_009	MS	QC937862		Water	260995	07/02/18 12:23	1.0	
010	183_010	MSD	QC937863		Water	260995	07/02/18 12:51	1.0	
011	183_011	SAMPLE	301135-001		Water	260995	07/02/18 13:20	1.0	
012	183_012	CCV	DSL_1000				07/02/18 13:54	1.0	4
013	183_013	CCV	MO_500				07/02/18 14:22	1.0	3
014	183_014	X	CMARKER				07/02/18 14:51	1.0	1
015	183_015	SAMPLE	301076-001		Soil	261040	07/02/18 16:07	1.0	
016	183_016	SAMPLE	301076-002		Soil	261040	07/02/18 16:36	1.0	
017	183_017	SAMPLE	301076-003		Soil	261040	07/02/18 17:04	1.0	
018	183_018	SAMPLE	301076-004		Soil	261040	07/02/18 17:32	1.0	
019	183_019	SAMPLE	301076-005		Soil	261040	07/02/18 18:00	1.0	
020	183_020	SAMPLE	301106-002		Soil	261040	07/02/18 18:29	2.0	
021	183_021	IB					07/02/18 18:57	1.0	
022	183_022	BLANK	QC938133		Soil	261063	07/02/18 19:25	1.0	
023	183_023	LCS	QC938134		Soil	261063	07/02/18 19:53	1.0	
024	183_024	MSS	301193-001		Soil	261063	07/02/18 20:21	3.0	
025	183_025	MS	QC938135		Soil	261063	07/02/18 20:49	3.0	
026	183_026	MSD	QC938136		Soil	261063	07/02/18 21:18	3.0	
027	183_027	IB					07/02/18 21:46	1.0	
028	183_028	SAMPLE	301106-001		Soil	261040	07/02/18 22:15	1.0	
029	183_029	CCV	DSL_500				07/02/18 22:43	1.0	2
030	183_030	CCV	MO_500				07/02/18 23:12	1.0	3
031	183_031	X	CMARKER				07/02/18 23:41	1.0	1
032	183_032	IB	CALIB				07/03/18 00:09	1.0	
033	183_033	ICAL	HEX OTP_2.5				07/03/18 00:37	1.0	5
034	183_034	ICAL	HEX OTP_5				07/03/18 01:06	1.0	5
035	183_035	ICAL	HEX OTP_10				07/03/18 01:34	1.0	6
036	183_036	ICAL	HEX OTP_25				07/03/18 02:03	1.0	7
037	183_037	ICAL	HEX OTP_50				07/03/18 02:31	1.0	8
038	183_038	ICAL	HEX OTP_100				07/03/18 03:00	1.0	9
039	183_039	IB	CALIB				07/03/18 03:28	1.0	
040	183_040	CMARKER	C8-C40				07/03/18 03:57	1.0	1
041	183_041	IB	CALIB				07/03/18 04:25	1.0	
042	183_042	IB					07/03/18 07:02	1.0	
043	183_043	X	CMARKER				07/03/18 07:30	1.0	1
044	183_044	CCV	DSL_500				07/03/18 07:59	1.0	2
045	183_045	CCV	MO_500				07/03/18 08:27	1.0	3
046	183_046	BLANK	QC938045		Soil	261040	07/03/18 11:14	1.0	
047	183_047	LCS	QC938046		Soil	261040	07/03/18 11:42	1.0	
048	183_048	LCS	QC938165		Soil	261072	07/03/18 12:10	1.0	
049	183_049	BLANK	QC938164		Soil	261072	07/03/18 12:38	1.0	
050	183_050	SAMPLE	301076-015		Soil	261063	07/03/18 13:07	1.0	
051	183_051	SAMPLE	301076-016		Soil	261063	07/03/18 13:35	1.0	
052	183_052	SAMPLE	301076-017		Soil	261063	07/03/18 14:03	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B
 Method : EPA 8015B

Begun : 07/02/18 06:17
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	183_053	SAMPLE	301076-014		Soil	261063	07/03/18 14:32	1.0		
054	183_054	SAMPLE	301070-001		Soil	261040	07/03/18 15:00	3.0		
055	183_055	SAMPLE	301124-001		Soil	261072	07/03/18 15:29	10.0		
056	183_056	IB					07/03/18 15:57	1.0		
057	183_057	MSS	301170-003		Soil	261072	07/03/18 16:25	1.0		
058	183_058	MS	QC938166		Soil	261072	07/03/18 16:54	1.0		
059	183_059	MSD	QC938167		Soil	261072	07/03/18 17:22	1.0		
060	183_060	CCV	DSL_250				07/03/18 18:15	1.0	10	
061	183_061	XCCV	MO_500				07/03/18 18:44	1.0	3	
062	183_062	X	CMARKER				07/03/18 19:12	1.0	1	
063	183_063	CCV	BUNK_500				07/03/18 19:40	1.0	11	
064	183_064	CCV	MO_500				07/03/18 20:09	1.0	3	
065	183_065	CCV	MO_500				07/03/18 20:37	1.0	3	
066	183_066	BLANK	QC938088		Water	261052	07/03/18 21:05	1.0		
067	183_067	BLANK	QC938045	S	Soil	261040	07/03/18 21:34	1.0		
068	183_068	LCS	QC938046	S	Soil	261040	07/03/18 22:02	1.0		
069	183_069	SAMPLE	301143-001	S	Soil	261040	07/03/18 22:31	1.0		
070	183_070	IB					07/03/18 22:59	1.0		
071	183_071	SAMPLE	301076-025		Water	261052	07/03/18 23:28	1.0		
072	183_072	SAMPLE	301189-001		Water	261052	07/03/18 23:57	1.0		
073	183_073	SAMPLE	301189-002		Water	261052	07/04/18 00:26	1.0		
074	183_074	SAMPLE	301189-003		Water	261052	07/04/18 00:54	1.0		
075	183_075	SAMPLE	301170-001		Soil	261072	07/04/18 01:23	1.0		
076	183_076	SAMPLE	301170-002		Soil	261072	07/04/18 01:52	1.0		
077	183_077	SAMPLE	301213-001		Soil	261040	07/04/18 02:20	1.0		
078	183_078	SAMPLE	301111-001		Water	261052	07/04/18 02:49	2.0		
079	183_079	CCV	DSL_500				07/04/18 03:18	1.0	2	
080	183_080	CCV	MO_500				07/04/18 03:46	1.0	3	
081	183_081	CCV	BUNK_500				07/04/18 04:15	1.0	11	
082	183_082	X	CMARKER				07/04/18 04:44	1.0	1	
083	183_083	SAMPLE	301104-001		Soil	261072	07/04/18 05:12	1.0		
084	183_084	SAMPLE	301104-002		Soil	261072	07/04/18 05:41	1.0		
085	183_085	SAMPLE	301104-003		Soil	261072	07/04/18 06:10	1.0		
086	183_086	SAMPLE	301104-004		Soil	261072	07/04/18 06:38	1.0		
087	183_087	SAMPLE	301176-001		Soil	261040	07/04/18 07:07	10.0		
088	183_088	IB					07/04/18 07:35	1.0		
089	183_089	SAMPLE	301076-006		Soil	261063	07/04/18 08:04	1.0		
090	183_090	SAMPLE	301076-007		Soil	261063	07/04/18 08:32	1.0		
091	183_091	SAMPLE	301076-008		Soil	261063	07/04/18 09:01	1.0		
092	183_092	SAMPLE	301076-009		Soil	261063	07/04/18 09:29	1.0		
093	183_093	SAMPLE	301076-010		Soil	261063	07/04/18 09:58	1.0		
094	183_094	SAMPLE	301076-011		Soil	261063	07/04/18 10:26	1.0		
095	183_095	SAMPLE	301076-012		Soil	261063	07/04/18 10:55	1.0		
096	183_096	SAMPLE	301076-013		Soil	261063	07/04/18 11:24	1.0		
097	183_097	CCV	DSL_1000				07/04/18 11:52	1.0	4	
098	183_098	CCV	MO_500				07/04/18 12:21	1.0	3	
099	183_099	X	CMARKER				07/04/18 12:49	1.0	1	
100	183_100	BLANK	QC938316		Soil	261112	07/04/18 13:17	1.0		
101	183_101	LCS	QC938317		Soil	261112	07/04/18 13:45	1.0		
102	183_102	MSS	301147-003		Soil	261112	07/04/18 14:13	3.0		11:BUNKC:12-40=27000
103	183_103	MS	QC938318		Soil	261112	07/04/18 14:42	3.0		8:BUNKC:12-40=19000
104	183_104	MSD	QC938319		Soil	261112	07/04/18 15:10	3.0		11:BUNKC:12-40=22000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228263897

Instrument : GC14B Begun : 07/02/18 06:17
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	183_105	SAMPLE	301147-004		Soil	261112	07/04/18 15:38	3.0		11:BUNKC:12-40=20000
106	183_106	IB					07/04/18 16:06	1.0		
107	183_107	SAMPLE	301147-005		Soil	261112	07/04/18 16:34	1.0		
108	183_108	SAMPLE	301147-006		Soil	261112	07/04/18 17:02	1.0		
109	183_109	SAMPLE	301147-007		Soil	261112	07/04/18 17:30	1.0		
110	183_110	SAMPLE	301148-001		Soil	261112	07/04/18 17:59	1.0		
111	183_111	MSS	301148-002		Soil	261112	07/04/18 18:27	1.0		
112	183_112	SAMPLE	301148-003		Soil	261112	07/04/18 18:55	1.0		
113	183_113	CCV	DSL_500				07/04/18 19:23	1.0	2	
114	183_114	CCV	MO_500				07/04/18 19:51	1.0	3	
115	183_115	X	CMARKER				07/04/18 20:19	1.0	1	
116	183_116	SAMPLE	301076-018		Soil	261063	07/04/18 20:48	1.0		
117	183_117	SAMPLE	301076-019		Soil	261063	07/04/18 21:16	1.0		
118	183_118	SAMPLE	301076-020		Soil	261063	07/04/18 21:45	1.0		
119	183_119	SAMPLE	301076-021		Soil	261063	07/04/18 22:13	1.0		
120	183_120	SAMPLE	301176-015		Soil	261040	07/04/18 22:42	10.0		2:BUNKC:12-40=5500
121	183_121	IB					07/04/18 23:10	1.0		
122	183_122	SAMPLE	301076-022		Soil	261063	07/04/18 23:38	1.0		
123	183_123	SAMPLE	301076-023		Soil	261063	07/05/18 00:07	1.0		
124	183_124	SAMPLE	301176-006		Soil	261040	07/05/18 00:35	100.0		
125	183_125	IB					07/05/18 01:04	1.0		
126	183_126	IB					07/05/18 01:32	1.0		
127	183_127	SAMPLE	301176-014		Soil	261040	07/05/18 02:00	10.0		2:BUNKC:12-40=6200
128	183_128	IB					07/05/18 02:29	1.0		
129	183_129	SAMPLE	301229-001		Soil	261112	07/05/18 02:57	1.0		
130	183_130	CCV	DSL_1000				07/05/18 03:26	1.0	4	
131	183_131	CCV	MO_500				07/05/18 03:54	1.0	3	
132	183_132	X	CMARKER				07/05/18 04:23	1.0	1	

CB1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 5.

WA1 07/02/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 6 through 14.

WA1 07/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 15 through 62.

CB1 07/05/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 63 through 132.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228407852

Instrument : GC14B
 Method : EPA 8015B

Begun : 10/10/18 05:32
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	283_001	IB					10/10/18 05:32	1.0	
002	283_002	X	CMARKER				10/10/18 06:00	1.0	1
003	283_003	CCV	DSL_500				10/10/18 06:28	1.0	2
004	283_004	CCV	MO_500				10/10/18 06:56	1.0	3
005	283_005	BLANK	QC950931	S	Soil	264333	10/10/18 08:05	1.0	
006	283_006	LCS	QC950932	S	Soil	264333	10/10/18 08:33	1.0	
007	283_007	SAMPLE	303866-008	S	Soil	264333	10/10/18 09:01	1.0	
008	283_008	BLANK	QC951074		Water	264364	10/10/18 11:04	1.0	
009	283_009	BS	QC951075		Water	264364	10/10/18 11:31	1.0	
010	283_010	BSD	QC951076		Water	264364	10/10/18 12:00	1.0	
011	283_011	SAMPLE	304020-001		Water	264364	10/10/18 12:28	1.0	
012	283_012	CCV	DSL_250				10/10/18 12:59	1.0	4
013	283_013	CCV	MO_500				10/10/18 13:27	1.0	3
014	283_014	X	CMARKER				10/10/18 13:55	1.0	1
015	283_015	LOQ	303744-001		Water	264364	10/10/18 14:40	1.0	
016	283_016	LOQ	303744-002		Water	264364	10/10/18 15:08	1.0	
017	283_017	BLANK	QC951220		Soil	264399	10/10/18 16:10	1.0	
018	283_018	BS	QC951221		Soil	264399	10/10/18 16:38	1.0	
019	283_019	BSD	QC951222		Soil	264399	10/10/18 17:06	1.0	
020	283_020	SAMPLE	301863-038		Soil	264399	10/10/18 17:34	1.0	
021	283_021	SAMPLE	301863-048		Soil	264399	10/10/18 18:03	1.0	
022	283_022	SAMPLE	301863-040		Soil	264399	10/10/18 18:31	3.0	2:BUNKC:12-40=6000
023	283_023	IB					10/10/18 18:59	1.0	
024	283_024	SAMPLE	301869-053		Soil	264399	10/10/18 19:27	1.0	
025	283_025	SAMPLE	301869-054		Soil	264399	10/10/18 19:56	1.0	1:HXCS=100
026	283_026	SAMPLE	301869-055		Soil	264399	10/10/18 20:24	1.0	
027	283_027	SAMPLE	301869-056		Soil	264399	10/10/18 20:52	1.0	
028	283_028	SAMPLE	301869-057		Soil	264399	10/10/18 21:21	1.0	
029	283_029	SAMPLE	301869-058		Soil	264399	10/10/18 21:49	1.0	
030	283_030	SAMPLE	301869-059		Soil	264399	10/10/18 22:17	1.0	
031	283_031	CCV	DSL_1000				10/10/18 22:45	1.0	5
032	283_032	CCV	MO_500				10/10/18 23:13	1.0	3
033	283_033	X	CMARKER				10/10/18 23:41	1.0	1
034	283_034	SAMPLE	304008-014		Soil	264389	10/11/18 00:09	1.0	
035	283_035	SAMPLE	304008-007		Soil	264389	10/11/18 00:37	1.0	
036	283_036	SAMPLE	304008-017		Soil	264389	10/11/18 01:05	1.0	
037	283_037	SAMPLE	304008-018		Soil	264389	10/11/18 01:33	1.0	
038	283_038	SAMPLE	304008-008		Soil	264389	10/11/18 02:01	1.0	
039	283_039	SAMPLE	304008-009		Soil	264389	10/11/18 02:29	1.0	
040	283_040	IB					10/11/18 02:58	1.0	
041	283_041	SAMPLE	304008-013		Soil	264389	10/11/18 03:26	1.0	
042	283_042	SAMPLE	304008-015		Soil	264389	10/11/18 03:54	1.0	
043	283_043	SAMPLE	304008-016		Soil	264389	10/11/18 04:22	2.0	
044	283_044	SAMPLE	304008-012		Soil	264389	10/11/18 04:50	3.0	
045	283_045	CCV	DSL_500				10/11/18 05:18	1.0	2
046	283_046	CCV	MO_500				10/11/18 05:46	1.0	3
047	283_047	X	CMARKER				10/11/18 06:14	1.0	1
048	283_048	BLANK	QC951226		Water	264402	10/11/18 10:28	1.0	
049	283_049	BS	QC951227		Water	264402	10/11/18 10:56	1.0	
050	283_050	BSD	QC951228		Water	264402	10/11/18 11:25	1.0	
051	283_051	SAMPLE	304042-002		Water	264402	10/11/18 11:53	1.0	
052	283_052	SAMPLE	304042-003		Water	264402	10/11/18 12:21	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228407852

Instrument : GC14B
 Method : EPA 8015B

Begun : 10/10/18 05:32
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	283_053	SAMPLE	304042-004		Water	264402	10/11/18 12:49	1.0	
054	283_054	SAMPLE	304042-005		Water	264402	10/11/18 13:18	1.0	
055	283_055	SAMPLE	303719-007		Water	264195	10/11/18 14:06	1.0	
056	283_056	CCV	DSL_250				10/11/18 14:34	1.0	4
057	283_057	CCV	MO_500				10/11/18 15:03	1.0	3
058	283_058	X	CMARKER				10/11/18 15:31	1.0	1
059	283_059	SAMPLE	303661-001	S	Water	264364	10/11/18 15:59	1.0	
060	283_060	SAMPLE	303661-003	S	Water	264364	10/11/18 16:28	1.0	
061	283_061	SAMPLE	303661-004	S	Water	264364	10/11/18 16:56	1.0	
062	283_062	SAMPLE	303661-005	S	Water	264364	10/11/18 17:25	1.0	
063	283_063	SAMPLE	303661-006	S	Water	264364	10/11/18 17:53	1.0	
064	283_064	SAMPLE	303661-007	S	Water	264364	10/11/18 18:21	1.0	
065	283_065	SAMPLE	303661-008	S	Water	264364	10/11/18 18:49	1.0	
066	283_066	SAMPLE	303661-009	S	Water	264364	10/11/18 19:17	1.0	
067	283_067	SAMPLE	303661-010	S	Water	264364	10/11/18 19:46	1.0	
068	283_068	SAMPLE	303712-001	S	Water	264364	10/11/18 20:14	1.0	
069	283_069	CCV	DSL_1000				10/11/18 20:42	1.0	5
070	283_070	CCV	MO_500				10/11/18 21:11	1.0	3
071	283_071	X	CMARKER				10/11/18 21:39	1.0	1
072	283_072	SAMPLE	303712-002	S	Water	264364	10/11/18 22:07	1.0	
073	283_073	SAMPLE	303712-003	S	Water	264364	10/11/18 22:36	1.0	
074	283_074	SAMPLE	303712-004	S	Water	264364	10/11/18 23:04	1.0	
075	283_075	SAMPLE	303837-005		Water	264402	10/11/18 23:32	1.0	
076	283_076	SAMPLE	303837-010		Water	264402	10/12/18 00:00	1.0	
077	283_077	SAMPLE	303837-015		Water	264402	10/12/18 00:29	1.0	
078	283_078	SAMPLE	303778-001		Water	264402	10/12/18 00:57	1.0	
079	283_079	CCV	DSL_500				10/12/18 01:25	1.0	2
080	283_080	CCV	MO_500				10/12/18 01:54	1.0	3
081	283_081	X	CMARKER				10/12/18 02:22	1.0	1
082	283_082	CCV	JET_250				10/12/18 02:50	1.0	6
083	283_083	BLANK	QC951380		Soil	264439	10/12/18 03:18	1.0	
084	283_084	LCS	QC951381		Soil	264439	10/12/18 03:47	1.0	
085	283_085	MSS	303931-003		Soil	264439	10/12/18 04:15	5.0	
086	283_086	MS	QC951382		Soil	264439	10/12/18 04:43	5.0	
087	283_087	MSD	QC951383		Soil	264439	10/12/18 05:11	5.0	
088	283_088	SAMPLE	304073-001		Soil	264439	10/12/18 05:39	10.0	
089	283_089	SAMPLE	303864-001		Soil	264439	10/12/18 06:07	1.0	
090	283_090	SAMPLE	304078-001		Soil	264439	10/12/18 06:35	1.0	
091	283_091	SAMPLE	303931-001		Soil	264439	10/12/18 07:04	5.0	
092	283_092	SAMPLE	303931-002		Soil	264439	10/12/18 07:32	5.0	
093	283_093	SAMPLE	303931-004		Soil	264439	10/12/18 08:00	5.0	
094	283_094	SAMPLE	303931-005		Soil	264439	10/12/18 08:28	5.0	
095	283_095	CCV	DSL_250				10/12/18 08:57	1.0	4
096	283_096	CCV	MO_500				10/12/18 09:25	1.0	3
097	283_097	CCV	JET_250				10/12/18 09:53	1.0	6
098	283_098	X	CMARKER				10/12/18 10:22	1.0	1
099	283_099	BLANK	QC951421		Water	264447	10/12/18 10:50	1.0	
100	283_100	XBS	QC951422		Water	264447	10/12/18 11:19	1.0	
101	283_101	BSD	QC951423		Water	264447	10/12/18 11:47	1.0	
102	283_102	BS	QC951422		Water	264447	10/12/18 12:26	1.0	
103	283_103	CCV	DSL_500				10/12/18 13:15	1.0	2
104	283_104	CCV	MO_500				10/12/18 13:43	1.0	3

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 228407852

Instrument : GC14B Begun : 10/10/18 05:32
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
105	283_105	X	CMARKER				10/12/18 14:11	1.0	1
106	283_106	SAMPLE	303931-006		Soil	264439	10/12/18 14:42	5.0	
107	283_107	SAMPLE	303931-007		Soil	264439	10/12/18 15:10	10.0	
108	283_108	SAMPLE	303931-008		Soil	264439	10/12/18 15:38	5.0	
109	283_109	SAMPLE	303931-009		Soil	264439	10/12/18 16:07	5.0	
110	283_110	SAMPLE	303931-010		Soil	264439	10/12/18 16:35	5.0	
111	283_111	SAMPLE	303931-011		Soil	264439	10/12/18 17:04	5.0	3:BUNKC:12-40=9700
112	283_112	SAMPLE	303931-012		Soil	264439	10/12/18 17:32	5.0	2:BUNKC:12-40=6500
113	283_113	SAMPLE	303931-013		Soil	264439	10/12/18 18:01	5.0	
114	283_114	SAMPLE	304076-001		Soil	264439	10/12/18 18:29	10.0	
115	283_115	CCV	DSL_250				10/12/18 18:57	1.0	4
116	283_116	CCV	MO_500				10/12/18 19:25	1.0	3
117	283_117	X	CMARKER				10/12/18 19:53	1.0	1

CB1 10/15/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 117.

CB1 10/10/18 : DCM: EM58145

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868397771

Instrument : GC26A
 Method : EPA 8015B

Begun : 10/03/18 05:31
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	276a001	IB					10/03/18 05:31	1.0	
002	276a002	X	CMARKER				10/03/18 05:59	1.0	1
003	276a003	CCV	DSL_500				10/03/18 06:27	1.0	2
004	276a004	CCV	MO_500				10/03/18 06:55	1.0	3
005	276a005	IB	CALIB				10/03/18 07:44	1.0	
006	276a006	ICAL	HEX OTP_2.5				10/03/18 08:28	1.0	4
007	276a007	ICAL	HEX OTP_5				10/03/18 08:56	1.0	4
008	276a008	ICAL	HEX OTP_10				10/03/18 09:23	1.0	5
009	276a009	ICAL	HEX OTP_25				10/03/18 09:51	1.0	6
010	276a010	ICAL	HEX OTP_50				10/03/18 10:19	1.0	7
011	276a011	ICAL	HEX OTP_100				10/03/18 10:46	1.0	7
012	276a012	IB	CALIB				10/03/18 11:14	1.0	
013	276a013	CMARKER	C8-C50				10/03/18 11:42	1.0	1
014	276a014	IB	CALIB				10/03/18 12:09	1.0	
015	276a015	CCV	DSL_500				10/03/18 13:38	1.0	2
016	276a016	CCV	MO_500				10/03/18 14:05	1.0	3
017	276a017	SAMPLE	303766-001		Water	264137	10/03/18 15:22	1.0	
018	276a018	SAMPLE	303766-002		Water	264137	10/03/18 15:49	1.0	
019	276a019	SAMPLE	303766-003		Water	264137	10/03/18 16:17	1.0	
020	276a020	SAMPLE	303766-004		Water	264137	10/03/18 16:45	1.0	
021	276a021	SAMPLE	303766-005		Water	264137	10/03/18 17:13	1.0	
022	276a022	SAMPLE	303767-001		Water	264137	10/03/18 17:41	1.0	
023	276a023	SAMPLE	303767-002		Water	264137	10/03/18 18:09	1.0	
024	276a024	SAMPLE	303767-003		Water	264137	10/03/18 18:37	1.0	
025	276a025	SAMPLE	303767-004		Water	264137	10/03/18 19:05	1.0	
026	276a026	SAMPLE	303767-005		Water	264137	10/03/18 19:32	1.0	
027	276a027	CCV	DSL_250				10/03/18 20:00	1.0	8
028	276a028	CCV	MO_500				10/03/18 20:28	1.0	3
029	276a029	X	CMARKER				10/03/18 20:56	1.0	1
030	276a030	BLANK	QC950227	S	Soil	264155	10/03/18 21:23	1.0	
031	276a031	LCS	QC950228	S	Soil	264155	10/03/18 21:51	1.0	
032	276a032	SAMPLE	303741-011	S	Soil	264155	10/03/18 22:19	1.0	
033	276a033	SAMPLE	303680-001		Soil	264155	10/03/18 22:46	1.0	
034	276a034	SAMPLE	304163-001		Soil	264155	10/03/18 23:14	1.0	
035	276a035	SAMPLE	303729-002		Soil	264155	10/03/18 23:42	5.0	
036	276a036	SAMPLE	303729-001		Soil	264155	10/04/18 00:09	10.0	
037	276a037	CCV	DSL_1000				10/04/18 00:37	1.0	9
038	276a038	CCV	MO_500				10/04/18 01:05	1.0	3
039	276a039	X	CMARKER				10/04/18 01:32	1.0	1

CB1 10/03/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 14.

CB1 10/04/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 15 through 39.

CB1 10/04/18 : DCM: EM58145

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868415085

Instrument : GC26A Begun : 10/15/18 06:05
 Method : EPA 8015B SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	288a001	IB				10/15/18 06:05	1.0		
002	288a002	IB				10/15/18 06:32	1.0		
003	288a003	X	CMARKER			10/15/18 07:00	1.0	1	
004	288a004	CCV	DSL_500			10/15/18 07:28	1.0	2	
005	288a005	CCV	MO_500			10/15/18 07:56	1.0	3	
006	288a006	SAMPLE	303935-010	Soil	264499	10/15/18 08:35	20.0		1:BUNKC:12-40=5000
007	288a007	SAMPLE	303935-001	Soil	264499	10/15/18 09:03	5.0		2:BUNKC:12-40=5600
008	288a008	SAMPLE	303935-014	Soil	264499	10/15/18 09:31	5.0		
009	288a009	SAMPLE	304076-001	Soil	264439	10/15/18 09:59	1.0		
010	288a010	SAMPLE	304106-001	Water	264495	10/15/18 11:53	1.0		
011	288a011	SAMPLE	304106-002	Water	264495	10/15/18 12:20	1.0		
012	288a012	SAMPLE	304106-003	Water	264495	10/15/18 12:48	1.0		
013	288a013	SAMPLE	304106-004	Water	264495	10/15/18 13:16	1.0		
014	288a014	CCV	DSL_1000			10/15/18 13:45	1.0	4	
015	288a015	CCV	MO_500			10/15/18 14:13	1.0	3	
016	288a016	CMARKER	C8-C40			10/15/18 14:41	1.0	1	
017	288a017	SAMPLE	303845-001	Water	264364	10/15/18 15:40	1.0		
018	288a018	SAMPLE	303845-002	Water	264364	10/15/18 16:08	1.0		
019	288a019	SAMPLE	303845-003	Water	264364	10/15/18 16:36	1.0		
020	288a020	SAMPLE	303845-004	Water	264364	10/15/18 17:03	1.0		
021	288a021	IB				10/15/18 17:31	1.0		
022	288a022	BLANK	QC951754	Soil	264527	10/15/18 17:59	1.0		
023	288a023	LCS	QC951755	Soil	264527	10/15/18 18:27	1.0		
024	288a024	SAMPLE	304118-002	Soil	264527	10/15/18 18:55	1.0		
025	288a025	SAMPLE	304118-003	Soil	264527	10/15/18 19:23	1.0		
026	288a026	SAMPLE	304118-005	Soil	264527	10/15/18 19:51	1.0		2:BUNKC:12-40=6500
027	288a027	SAMPLE	304118-006	Soil	264527	10/15/18 20:18	1.0		
028	288a028	SAMPLE	304118-007	Soil	264527	10/15/18 20:46	1.0		
029	288a029	SAMPLE	304118-004	Soil	264527	10/15/18 21:14	1.0		2:BUNKC:10-40=6400
030	288a030	CCV	DSL_1000			10/15/18 21:42	1.0	4	
031	288a031	CCV	MO_500			10/15/18 22:10	1.0	3	
032	288a032	X	CMARKER			10/15/18 22:39	1.0	1	

CB1 10/15/18 : DCM: EM58145

CB1 10/15/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 12.

WA1 10/15/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 13 through 20.

CB1 10/16/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 21 through 32.

Standards used: 1=S38220 2=S38109 3=S38108 4=S37058

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978335887

Instrument : GC27A
 Method : EPA 8015B

Begun : 08/21/18 06:07
 SOP Version : TEH_rv20

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	233a001	IB				08/21/18 06:07	1.0	
002	233a002	IB	CALIB			08/21/18 06:33	1.0	
003	233a003	ICAL	HEX OTP_2.5			08/21/18 09:29	1.0	1
004	233a004	IB				08/21/18 10:47	1.0	
005	233a005	X	CMARKER			08/21/18 11:12	1.0	2
006	233a006	IB	CALIB			08/21/18 11:32	1.0	
007	233a007	X	CMARKER			08/21/18 13:58	1.0	2
008	233a008	ICAL	HEX OTP_2.5			08/21/18 14:30	1.0	1
009	233a009	ICAL	HEX OTP_5			08/21/18 14:55	1.0	1
010	233a010	ICAL	HEX OTP_10			08/21/18 15:21	1.0	3
011	233a011	ICAL	HEX OTP_25			08/21/18 15:46	1.0	4
012	233a012	ICAL	HEX OTP_50			08/21/18 16:11	1.0	5
013	233a013	ICAL	HEX OTP_100			08/21/18 16:36	1.0	5
014	233a014	IB	CALIB			08/21/18 17:01	1.0	
015	233a015	ICAL	DSL_10			08/21/18 17:26	1.0	6
016	233a016	ICAL	DSL_100			08/21/18 17:51	1.0	7
017	233a017	ICAL	DSL_500			08/21/18 18:16	1.0	8
018	233a018	ICAL	DSL_1000			08/21/18 18:41	1.0	9
019	233a019	ICAL	DSL_5000			08/21/18 19:06	1.0	10
020	233a020	IB	CALIB			08/21/18 19:31	1.0	
021	233a021	ICV	DSL_500			08/21/18 19:56	1.0	11
022	233a022	IB	CALIB			08/21/18 20:21	1.0	
023	233a023	ICAL	MO_50			08/21/18 20:46	1.0	12
024	233a024	ICAL	MO_250			08/21/18 21:12	1.0	13
025	233a025	ICAL	MO_500			08/21/18 21:37	1.0	14
026	233a026	ICAL	MO_1000			08/21/18 22:02	1.0	15
027	233a027	ICAL	MO_2500			08/21/18 22:27	1.0	16
028	233a028	ICAL	MO_5000			08/21/18 22:52	1.0	16
029	233a029	IB	CALIB			08/21/18 23:17	1.0	
030	233a030	ICV	MO_500			08/21/18 23:43	1.0	17
031	233a031	IB	CALIB			08/22/18 00:08	1.0	
032	233a032	CMARKER	C8-C50			08/22/18 00:33	1.0	2
033	233a033	IB	CALIB			08/22/18 00:58	1.0	

CB1 08/22/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 33.

CB1 08/21/18 : Position 3 misinjected.

Standards used: 1=S36499 2=S37406 3=S36500 4=S36501 5=S36503 6=S36610 7=S36611 8=S36613 9=S36615 10=S36609 11=S37561
 12=S36946 13=S36948 14=S36949 15=S36951 16=S36926 17=S37711

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 978407882

Instrument : GC27A
 Method : EPA 8015B

Begun : 10/10/18 06:02
 SOP Version : TEH_rv20

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	283a001	IB					10/10/18 06:02	1.0	
002	283a002	X	CMARKER				10/10/18 06:27	1.0	1
003	283a003	CCV	DSL_500				10/10/18 06:53	1.0	2
004	283a004	CCV	MO_500				10/10/18 07:18	1.0	3
005	283a005	SAMPLE	303866-007	S	Soil	264333	10/10/18 08:20	1.0	
006	283a006	SAMPLE	303866-005	S	Soil	264333	10/10/18 08:46	1.0	
007	283a007	SAMPLE	303866-006	S	Soil	264333	10/10/18 09:11	1.0	
008	283a008	SAMPLE	303843-009		Water	264364	10/10/18 11:35	1.0	
009	283a009	SAMPLE	303712-001		Water	264364	10/10/18 12:00	1.0	
010	283a010	SAMPLE	303712-002		Water	264364	10/10/18 12:25	1.0	
011	283a011	SAMPLE	303712-003		Water	264364	10/10/18 12:50	1.0	
012	283a012	SAMPLE	303712-004		Water	264364	10/10/18 13:15	1.0	
013	283a013	CCV	BUNK_500				10/10/18 13:41	1.0	4
014	283a014	BLANK	QC951074	S	Water	264364	10/10/18 14:06	1.0	
015	283a015	BS	QC951075	S	Water	264364	10/10/18 14:31	1.0	
016	283a016	BSD	QC951076	S	Water	264364	10/10/18 14:56	1.0	
017	283a017	CCV	DSL_250				10/10/18 15:22	1.0	5
018	283a018	CCV	MO_500				10/10/18 15:47	1.0	3
019	283a019	X	CMARKER				10/10/18 16:12	1.0	1
020	283a020	CCV	BUNK_500				10/10/18 16:37	1.0	4
021	283a021	SAMPLE	303845-001	S	Water	264364	10/10/18 17:02	1.0	
022	283a022	SAMPLE	303845-002	S	Water	264364	10/10/18 17:27	1.0	
023	283a023	SAMPLE	303845-003	S	Water	264364	10/10/18 17:52	1.0	
024	283a024	SAMPLE	303845-004	S	Water	264364	10/10/18 18:17	1.0	
025	283a025	SAMPLE	303876-001	S	Soil	264389	10/10/18 18:42	1.0	
026	283a026	SAMPLE	303876-002	S	Soil	264389	10/10/18 19:08	1.0	
027	283a027	SAMPLE	301869-060		Soil	264399	10/10/18 19:33	1.0	
028	283a028	SAMPLE	301869-063		Soil	264399	10/10/18 19:58	1.0	
029	283a029	CCV	DSL_1000				10/10/18 20:24	1.0	6
030	283a030	CCV	MO_500				10/10/18 20:49	1.0	3
031	283a031	CCV	BUNK_500				10/10/18 21:14	1.0	4
032	283a032	X	CMARKER				10/10/18 21:40	1.0	1
033	283a033	BLANK	QC951178		Soil	264389	10/10/18 22:05	1.0	
034	283a034	LCS	QC951179		Soil	264389	10/10/18 22:30	1.0	
035	283a035	LCS	QC951179	S	Soil	264389	10/10/18 22:55	1.0	
036	283a036	BLANK	QC951178	S	Soil	264389	10/10/18 23:20	1.0	
037	283a037	MSS	304008-011		Soil	264389	10/10/18 23:46	1.0	
038	283a038	MS	QC951180		Soil	264389	10/11/18 00:11	1.0	
039	283a039	MSD	QC951181		Soil	264389	10/11/18 00:36	1.0	
040	283a040	SAMPLE	304008-010		Soil	264389	10/11/18 01:01	5.0	
041	283a041	IB					10/11/18 01:27	1.0	
042	283a042	SAMPLE	304008-004		Soil	264389	10/11/18 01:52	1.0	
043	283a043	SAMPLE	304008-001		Soil	264389	10/11/18 02:17	1.0	
044	283a044	SAMPLE	304008-002		Soil	264389	10/11/18 02:42	1.0	
045	283a045	SAMPLE	304008-003		Soil	264389	10/11/18 03:07	1.0	
046	283a046	SAMPLE	304008-005		Soil	264389	10/11/18 03:32	1.0	
047	283a047	SAMPLE	304008-006		Soil	264389	10/11/18 03:58	1.0	
048	283a048	CCV	DSL_500				10/11/18 04:23	1.0	2
049	283a049	CCV	MO_500				10/11/18 04:48	1.0	3
050	283a050	X	CMARKER				10/11/18 05:13	1.0	1
051	283a051	CHECK	CCV				10/11/18 05:38	1.0	7
052	283a052	CHECK	CCV				10/11/18 06:03	1.0	7

SAMPLE PREPARATION SUMMARY

Batch # : 264364
 Started By : ECI
 Method : 3520C
 Spike #1 ID : S37998

Prep Date : 09-OCT-2018 14:53
 SOP Version : TEH_3520_rv16
 Spike #2 ID : S38110

Analysis : TEH
 Finished By : JCT
 Units : mL
 Spike #3 ID : S38236

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
303661-001		Water	510	2.5	1	0.004902	7	.5			3630C	TEHM	
303661-002		Water	510	2.5	1	0.004902	7	.5				TEHM	
303661-003		Water	510	2.5	1	0.004902	7	.5			3630C	TEHM	
303661-004		Water	510	2.5	1	0.004902	7	.5			3630C	TEHM	
303661-005		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
303661-006		Water	510	2.5	1	0.004902	7	.5			3630C	TEHM	
303661-007		Water	510	2.5	1	0.004902	7	.5			3630C	TEHM	
303661-008		Water	510	2.5	1	0.004902	7	.5			3630C	TEHM	
303661-009		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
303661-010		Water	500	2.5	1	0.005	6	.5			3630C	TEHM	
303712-001		Water	510	2.5	1	0.004902	7	.5			3630C	TEHM	
303712-002		Water	510	2.5	1	0.004902	7	.5			3630C	TEHM	
303712-003		Water	510	2.5	1	0.004902	6	.5			3630C	TEHM	
303712-004		Water	500	2.5	1	0.005	6	.5			3630C	TEHM	
303744-001		Water	1000	5	1	0.005		1		.1		TEH	
303744-002		Water	1000	5	1	0.005		1				TEHM	+ .06 mL S36926A
303843-009		Water	500	2.5	1	0.005	7	.5				TEH	
303845-001		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
303845-002		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
303845-003		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
303845-004		Water	510	2.5	1	0.004902	7	.5			3630C	TEHM	
304020-001		Water	1000	5	1	0.005	8	1				TEHM	
QC951074	BLANK	Water	500	2.5	1	0.005		.5			3630C		
QC951075	BS	Water	500	2.5	1	0.005		.5	.5		3630C		
QC951076	BSD	Water	500	2.5	1	0.005		.5	.5		3630C		

CB1 10/10/18 : Please review batch paperwork and QC for RUSH 304020 due TODAY, 10/10/18.

CB1 10/10/18 : Matrix spikes were not performed for this analysis in batch 264364 due to insufficient sample amount.

EAH 10/10/18 : Checked batch documents and review SG jobs.

EAH 10/11/18 : Reviewed all jobs except for 303744.

Analyst: CB1 Date: 10/11/18 Reviewer: _____ Date: _____

LIMS Batch No: 264364
 LIMS Analysis: _____
 Date Extracted: _____

Extraction Method:
 EPA 3520c cont. L/L

Page 98 BK 4262

Cleanup Method (if needed):
 EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
309026-001	C	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input type="checkbox"/> 7 <input checked="" type="checkbox"/> 8	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0	*	
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
5		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
10		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
15		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
20		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		
		<input type="checkbox"/> 500 <input type="checkbox"/>	<input type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 2.5 <input type="checkbox"/>		

BS/BSD only (MS/MSD not included) due to: insufficient volume, or other (reason)

Mfg & Lot# / LIMS # / Tin Date/ Initials

Checked pH with pH strips - lot # _____
 _____ mL of TEH_SURR was added to all samples
 _____ mL of TEH_SP was added to all spikes

3520c: Samples were continually extracted about 450 mL of CH₂Cl₂
 Extraction Start Time: _____
 Extraction End Time: _____

3510c: Samples were extracted 3 times with 60 mL of CH₂Cl₂
 Extracts filtered through baked, CH₂Cl₂-rinsed granular Na₂SO₄
 Concentrated to final volume in boiling water bath
 Relinquished to TEH Department

<p>see page 97</p>	

W. Ding 10/9/18
Extraction Chemist **Date**

Continued from Page 97
 Continued on Page 1

W. Ding 10/10/18
Reviewed by **Date**

Prep Chemist: JCT
 Cleanup Date: 10/10/13

Benchbook # **BK 4299**
 Page 30

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
303845-001	264364	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
2		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
3		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
4		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
5 MB Qc951074		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
BS	5	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
BSD	6	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
10		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
15		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
20		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
25		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
30		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	

Extracts were cleaned up using C&T assembled 1.0 g columns
 Extracts were cleaned up using g cartridges
 Extracts were eluted with 4.0 mL CH₂Cl₂
 Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
V04D040	JCT 10/10/13
EM58145	JCT

JCT 10/10/13
 Extraction Chemist / Date

Continued from page
 Continued on page

Wey 10/10/13
 Reviewed by / Date

TEH (8015) Water Prep Log

version 201801

Enthlapy Analytical LLC - Berkeley

LIMS Batch No: 261364
 LIMS Analysis: TEHM
 Date Extracted: 10/9/18

Extraction Method:
 EPA 3520c cont. L/L

Page 97 BK 4262
 Cleanup Method (if needed):
 EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
303661-001	C	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 500	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	2 C	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 500	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>		
	3 C	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 500	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	4 B	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 500	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	5 B	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	6 C	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 500	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	7 C	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 500	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	8 C	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 500	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	9 C	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	10 C	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 6	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
303712-001	F	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 500	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	2 E	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 500	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	3 F	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 500	<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 6	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	4 R	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 6	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
303744-001	MA	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> NA	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		LOQ 0.1 ml S37236A*
	2 MA	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 1000	<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> NA	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5.0		L 0.06 ml S36926A*
303843-001	E	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>		
303845-001	E	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	2 E	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	3 E	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
	4 E	<input type="checkbox"/> 500 <input checked="" type="checkbox"/> 500	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
MB QC951074	MA	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> NA	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
BS	S	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> NA	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	
BSD	S	<input checked="" type="checkbox"/> 500 <input type="checkbox"/>	<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> NA	<input checked="" type="checkbox"/> 2.5 <input type="checkbox"/>	X	MA 10/10/18

BS/BSO only (MS/MSD not included) due to: insufficient volume, or other (reason)

Mfg & Lot# / LIMS # / Tin Date/ Initials

10* / 0.5 mL of TEH_SURR was added to all samples
 0.5 mL of TEH_SP was added to all spikes

3520c: Samples were continually extracted about 450 mL of CH₂Cl₂

Extraction Start Time: 1453
 Extraction End Time: 8:53

3510c: Samples were extracted 3 times with 60 mL of CH₂Cl₂
 Extracts filtered through baked, CH₂Cl₂-rinsed granular-Na₂SO₄
 Concentrated to final volume in boiling water bath
 Relinquished to TEH Department

10BD44951
 S37998D
 S38110D
 PM 58145
 1453
 8:53
 EM58145
 EM1801956536

10/9/18
 JCT 10/10/18

Elycia
 Extraction Chemist
 Date: 10/9/18

Continued from Page 96
 Continued on Page 98

Wang
 Reviewed by
 Date: 10/10/18

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC27A Lab ID : 303845-001 (S) Client ID : BR11-1GW01
 Seqnum : 978407882021.3 Matrix : Water Acct : TRC-SF (MJD)
 File : 283a021 Batch : 264364 Time : 10-OCT-2018 17:02
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

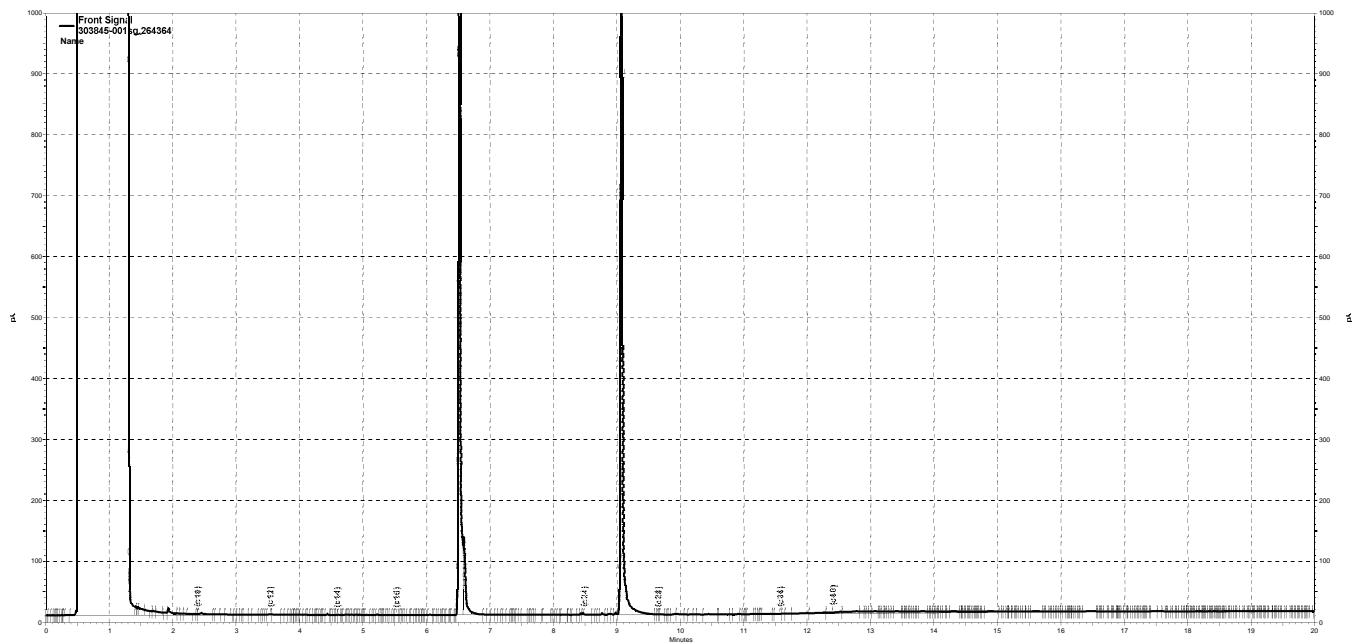
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	978335887001	2.268	ND	50		u
Motor Oil C24-C36	978335887002	1.341	ND	300		u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	978348840001	56.84	250.0	284.2	114	58-123	u

WA1 10/12/18 : Corrected automatically drawn baseline.

WA1: 10/12/18 * EAH: 10/12/18 * CB1: 10/16/18

u=use



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a021.dat, Front Signal

Sample Name: 303845-001sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a021.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version: 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 5:02:33 PM
 Analysis Date: 10/12/2018 5:15:17 PM
 Instrument: GC27 (Offline)A Vial: 21 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		750286	1.584
DSL:10-14		687295	3.866
DSL:10-22		32371812	71.448
DSL:10-24		32449902	69.724
DSL:10-28		55373172	117.364
DSL:12-24		31953199	81.600
DSL:12-28		54876469	137.885
DSL:14-24		31775114	104.818
DSL:16-24		31704440	151.746
MO:22-32		23139207	72.336
MO:24-36		23188891	71.686
MO:28-40		494279	2.530
BUNKC:10-40		55835646	276.318
BUNKC:12-40		55338943	282.488
?		0	0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

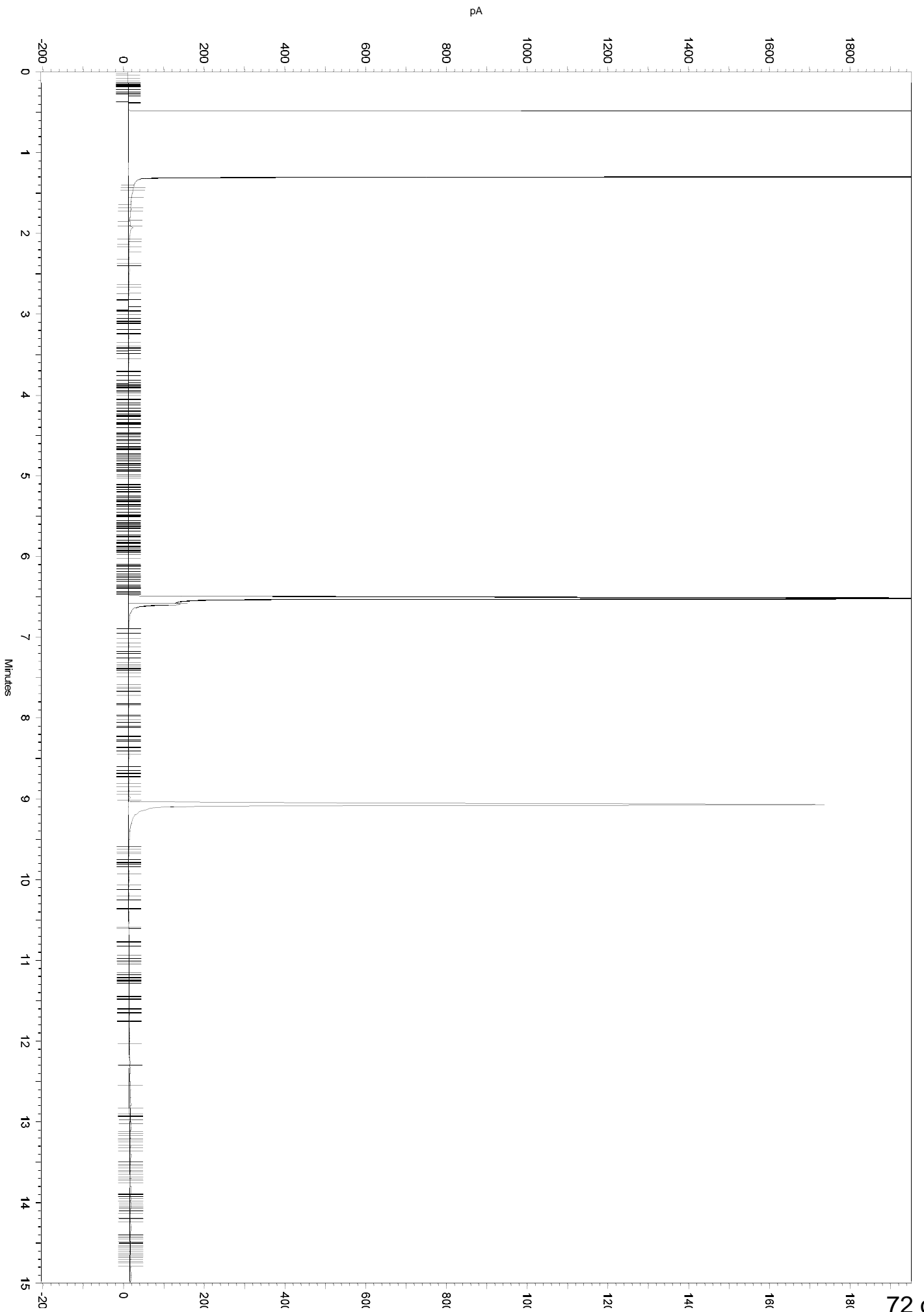
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a021.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.465	6.831	0
No	Manual Baseline	8.703	9.784	0
Yes	Move BL Start	4.053	0.265	0



Sample Name: 303845-001sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a021.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 5:02:33 PM
 Analysis Date: 10/12/2018 5:15:01 PM
 Instrument: GC27 (Offline)A Vial: 21 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		127907	0.270
DSL:10-14		102976	0.579
DSL:10-22		31747990	70.071
DSL:10-24		31826080	68.384
DSL:10-28		54749350	116.042
DSL:12-24		31774093	81.142
DSL:12-28		54697363	137.435
DSL:14-24		31724991	104.653
DSL:16-24		31700420	151.726
MO:22-32		23139207	72.336
MO:24-36		23188891	71.686
MO:28-40		494279	2.530
BUNKC:10-40		55211824	273.231
BUNKC:12-40		55159837	281.574

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

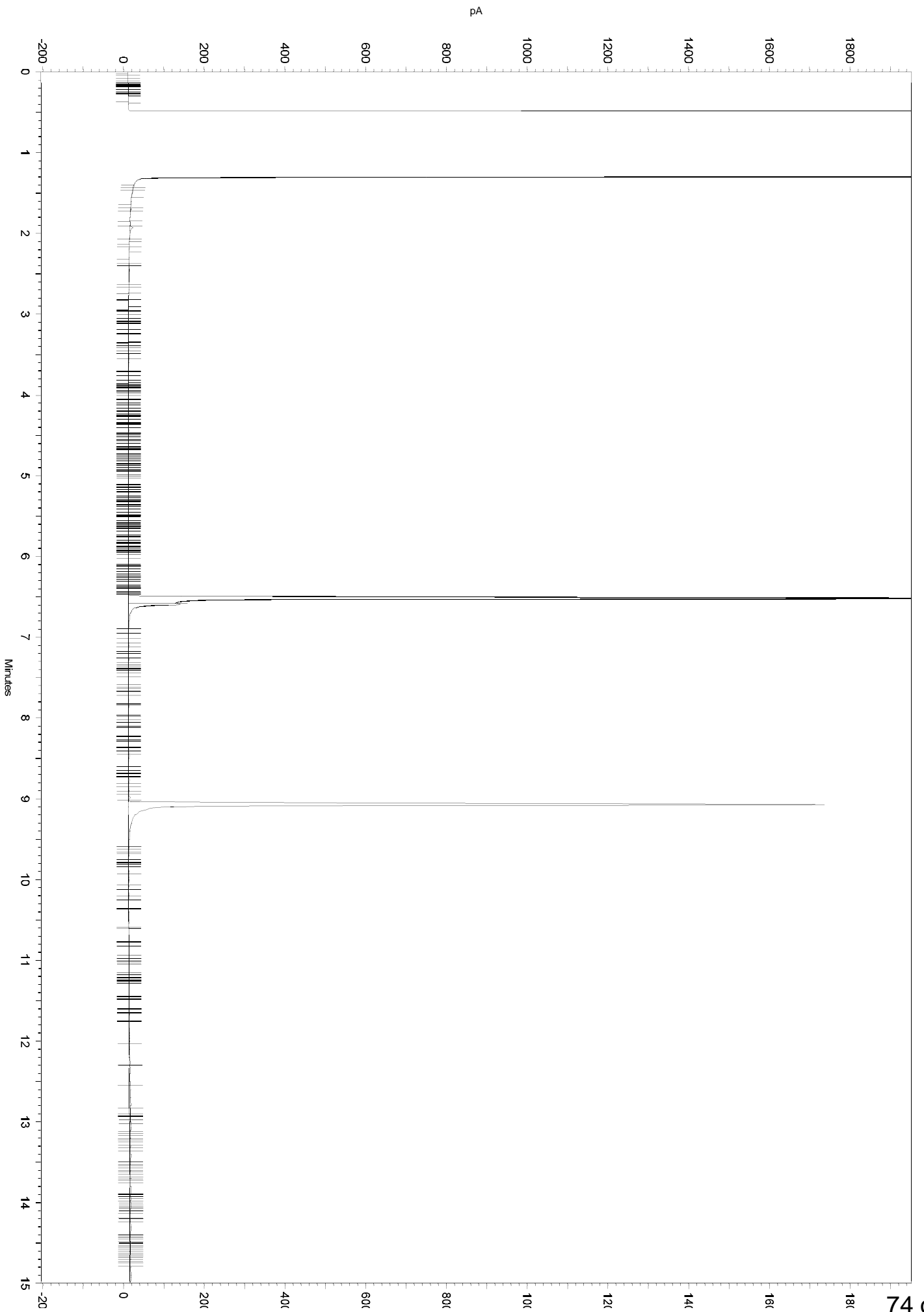
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a021.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.465	6.831	0
No	Manual Baseline	8.703	9.784	0



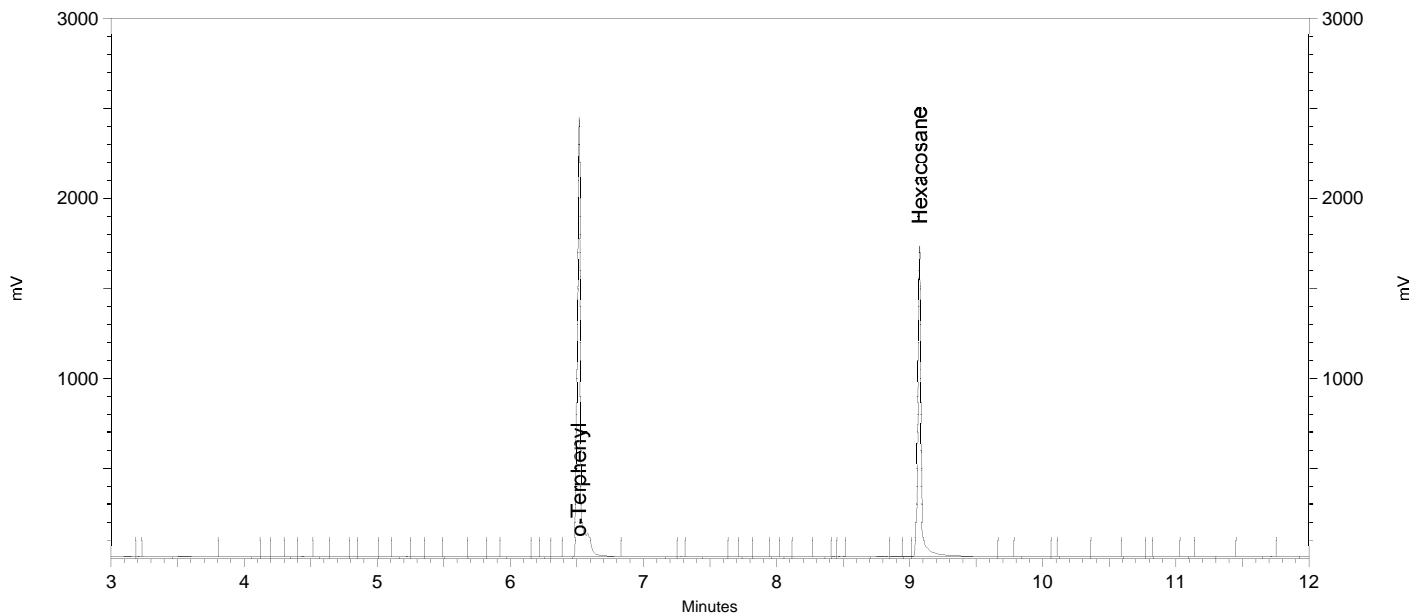
Sample Name: 303845-001sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a021.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 5:02:33 PM
 Analysis Date: 10/12/2018 5:14:33 PM
 Instrument: GC27 (Offline)A Vial: 21 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.520	31394223	56.835
Hexacosane	9.072	22755071	49.405



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a021.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.465  6.831   0
Yes Manual Baseline    8.703  9.784   0
  
```

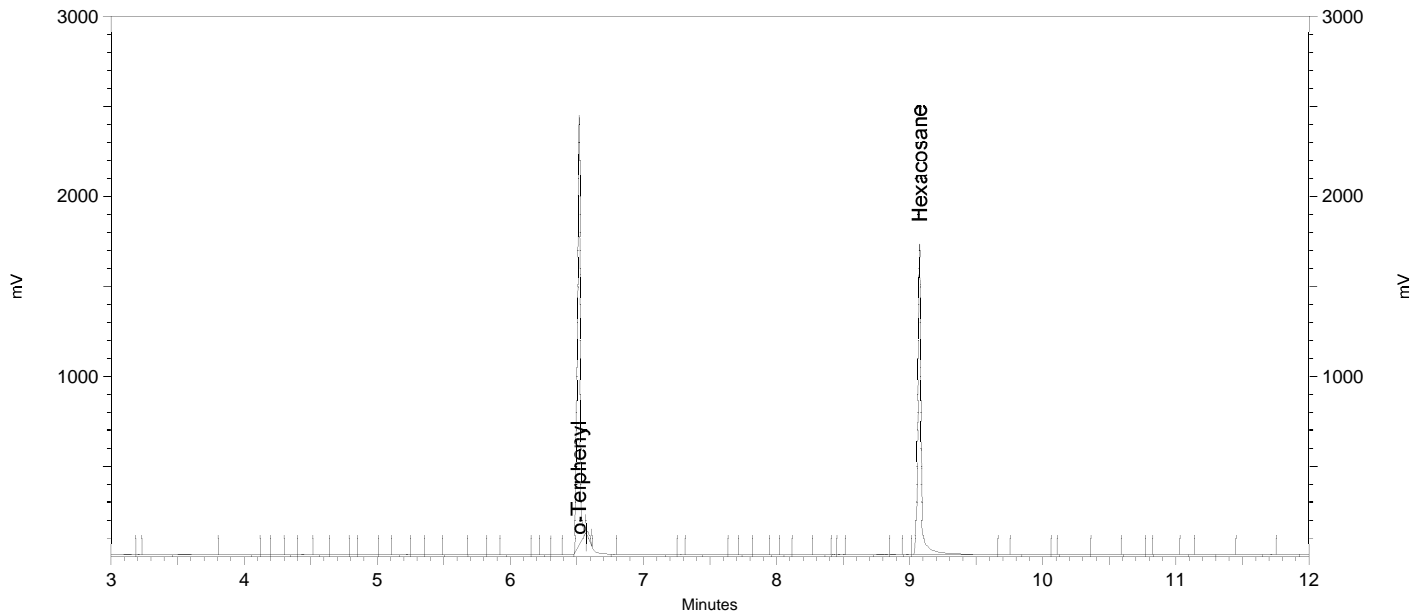

Sample Name: 303845-001sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a021.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 5:02:33 PM
 Analysis Date: 10/12/2018 5:14:15 PM
 Instrument: GC27 (Offline)A Vial: 21 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.520	26094012	47.240
Hexacosane	9.072	22532506	48.922



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a021.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC26A Lab ID : 303845-001 Client ID : BR11-1GW01
 Seqnum : 868415085017 Matrix : Water Acct : TRC-SF (MJD)
 File : 288a017 Batch : 264364 Time : 15-OCT-2018 15:40
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

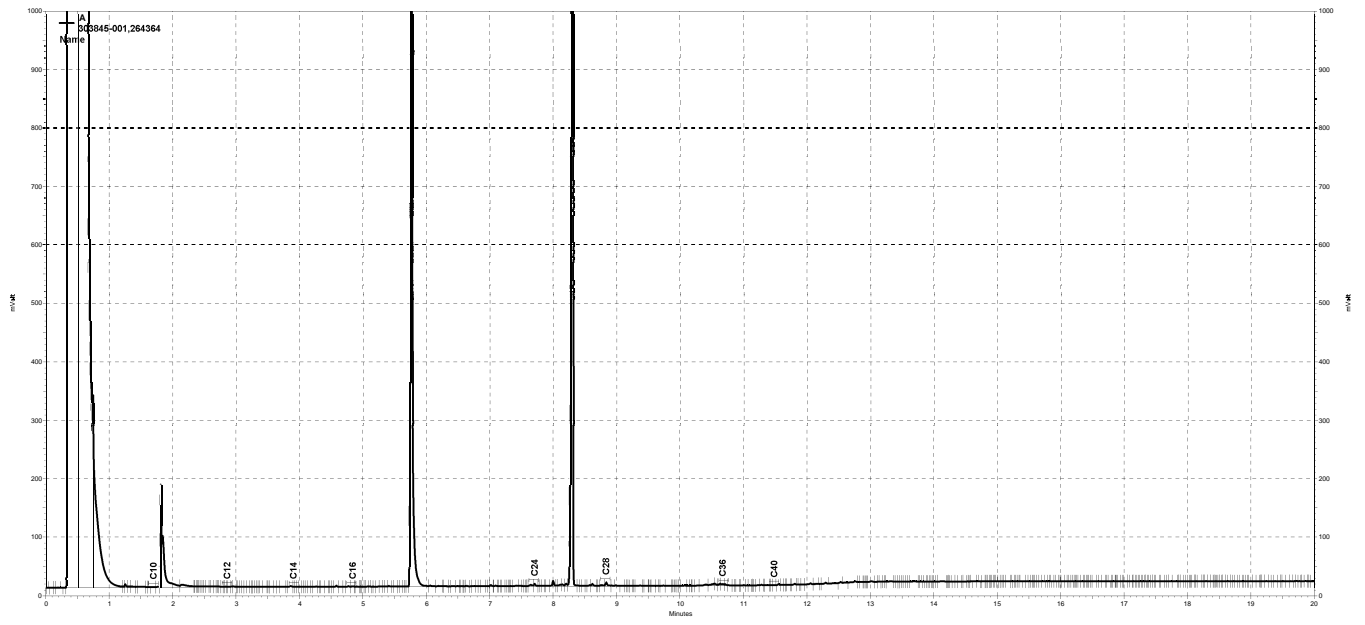
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	868380491001	13.16	66	50		Y Z u
Motor Oil C24-C36	868409292001	4.402	ND	300		u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	868397771001	56.11	250.0	280.5	112	58-123	u

WA1 10/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/16/18 Reviewer: EAH Date: 10/16/18

Y=does not resemble standard Z=single peak u=use



\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a017, A

Sample Name: 303845-001,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a017
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
 Run Date: 10/15/2018 3:40:43 PM
 Analysis Date: 10/15/2018 6:06:38 PM
 Instrument: GC26A Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	637358	13.704
DSL:10-14	611781	28.120
DSL:10-22	4514339	81.645
DSL:10-24	4549463	79.965
DSL:10-28	8043236	139.559
DSL:12-24	3982994	82.182
DSL:12-28	7476767	151.950
DSL:14-24	3944976	107.046
DSL:16-24	3916697	149.444
MO:22-32	3555185	81.564
MO:24-36	3581609	82.335
MO:28-40	100082	3.800
BUNKC:10-40	8122633	259.040
BUNKC:12-40	7556164	247.436

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

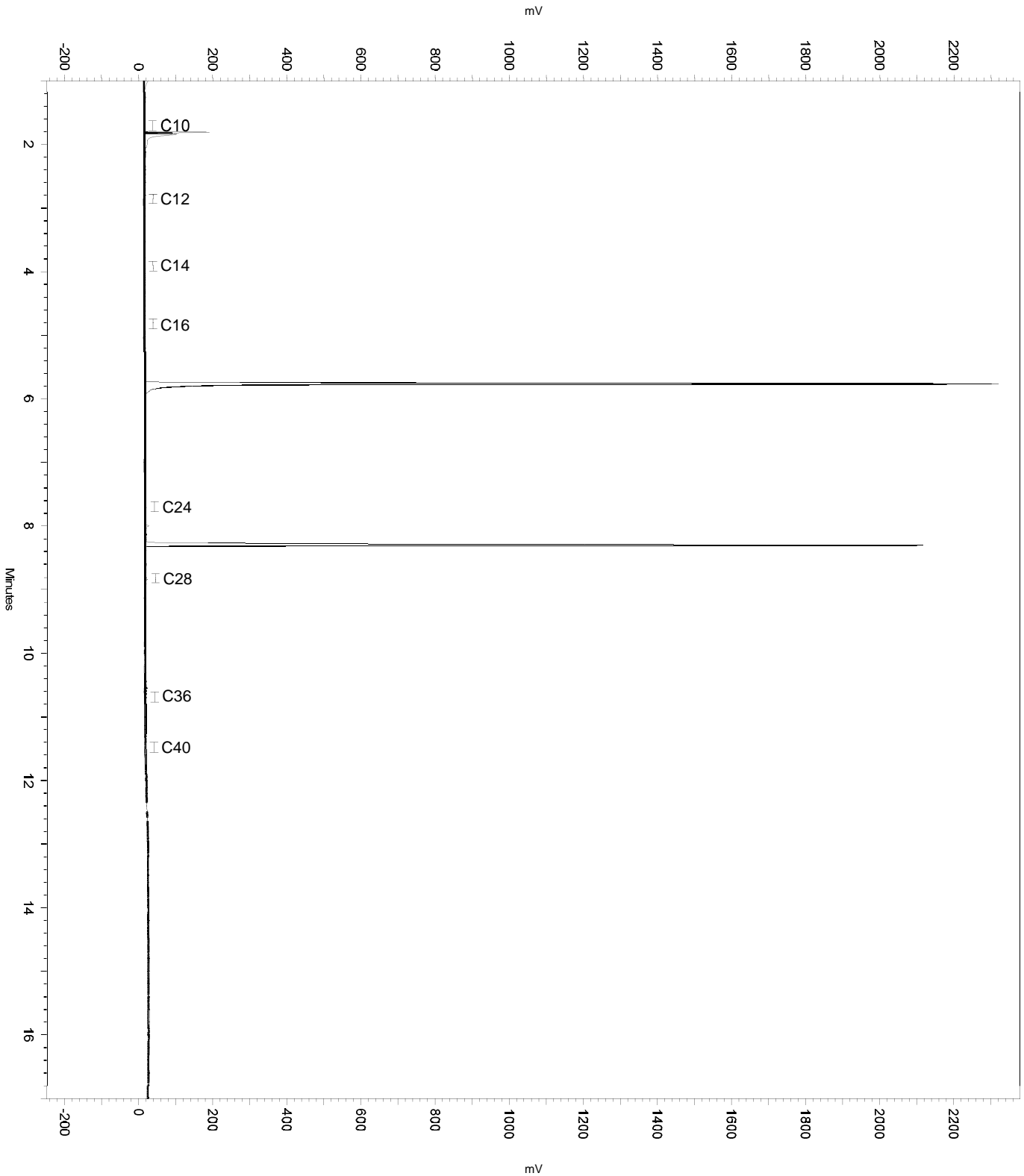
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	7.94	8.4	0
Yes	Move BL Start	9.683	0.274	0

Sample Name: 303845-001,264364
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a017
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
Run Date: 10/15/2018 3:40:43 PM
Analysis Date: 10/15/2018 6:06:38 PM
Instrument: GC26A Vial: 17 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 303845-001,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a017
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
 Run Date: 10/15/2018 3:40:43 PM
 Analysis Date: 10/15/2018 6:06:23 PM
 Instrument: GC26A Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	609391	13.103
DSL:10-14	596250	27.406
DSL:10-22	4447040	80.428
DSL:10-24	4466836	78.513
DSL:10-28	7925986	137.524
DSL:12-24	3904945	80.572
DSL:12-28	7364095	149.660
DSL:14-24	3875912	105.172
DSL:16-24	3859667	147.268
MO:22-32	3494025	80.161
MO:24-36	3535012	81.264
MO:28-40	86108	3.269
BUNKC:10-40	7997498	255.049
BUNKC:12-40	7435607	243.488

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

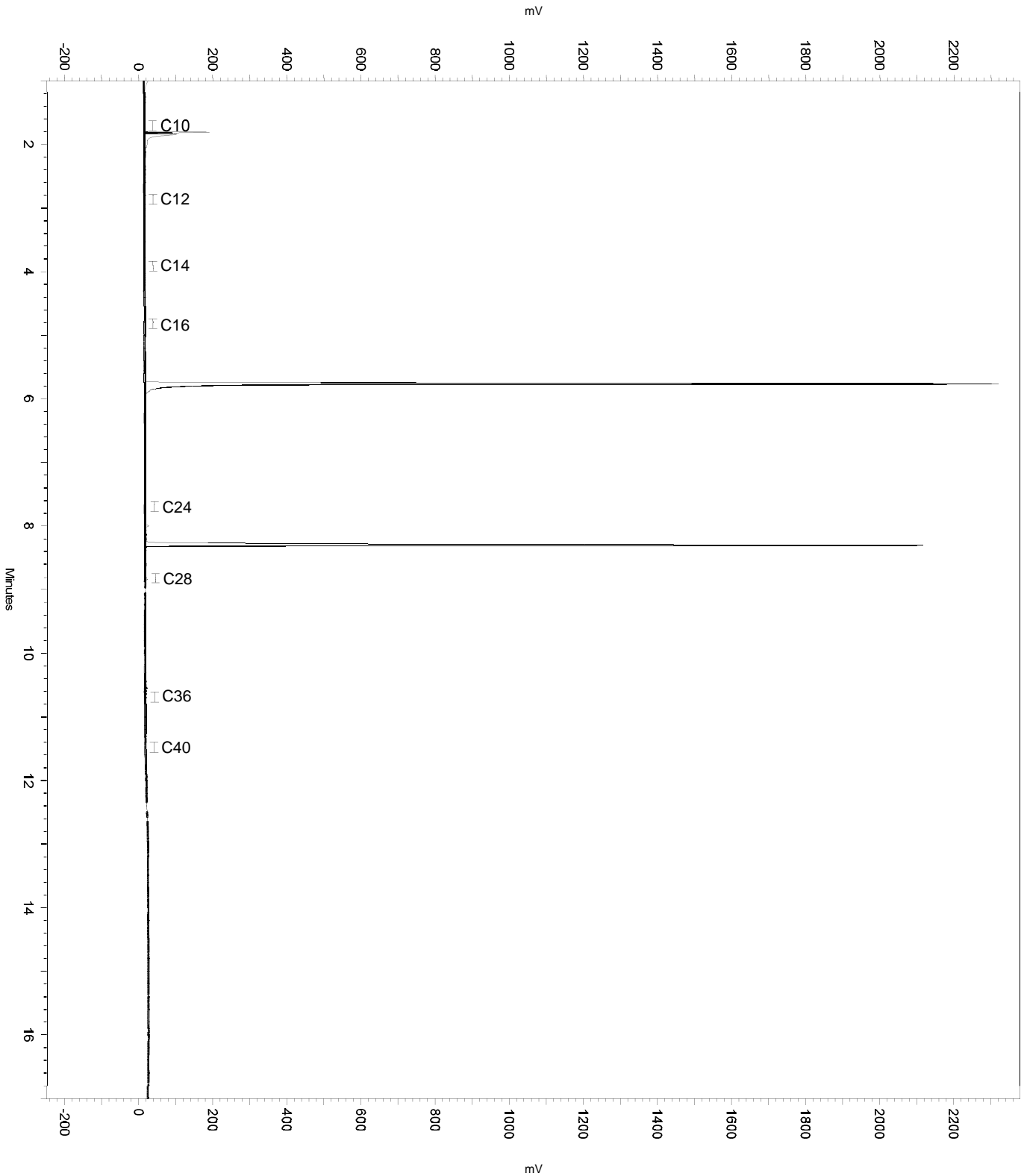
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a017				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	7.94	8.4	0

Sample Name: 303845-001,264364
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a017
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
Run Date: 10/15/2018 3:40:43 PM
Analysis Date: 10/15/2018 6:06:23 PM
Instrument: GC26A Vial: 17 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

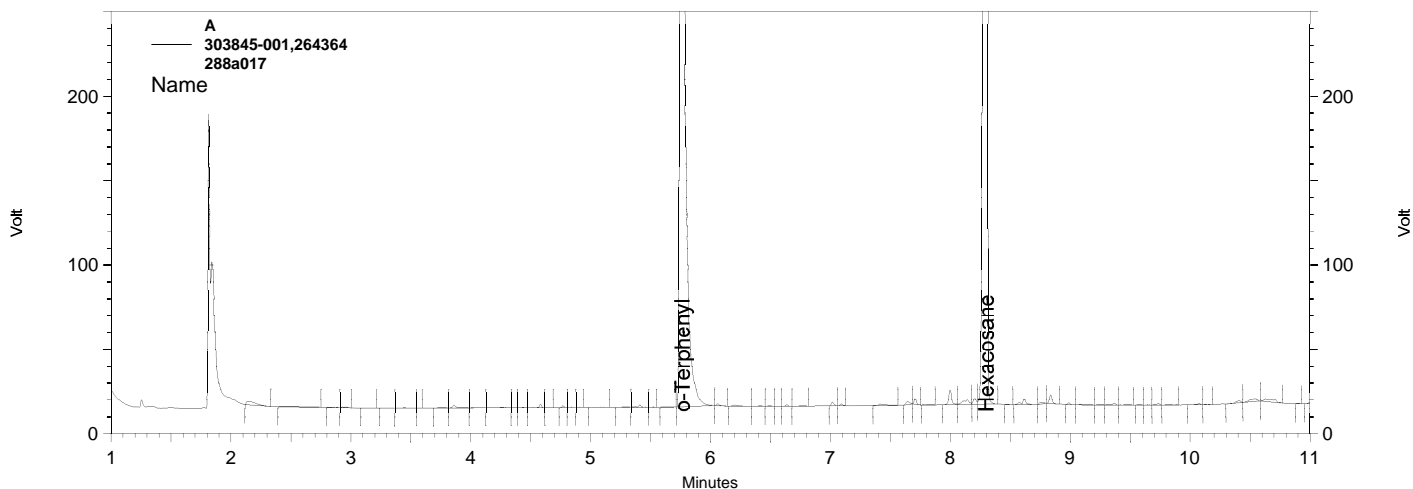


Sample Name: 303845-001,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a017
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 3:40:43 PM
 Analysis Date: 10/15/2018 6:04:51 PM
 Instrument: GC26A Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.767	3800596	56.106
Hexacosane	8.303	3390118	61.817



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283\2018\288a01,264364

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

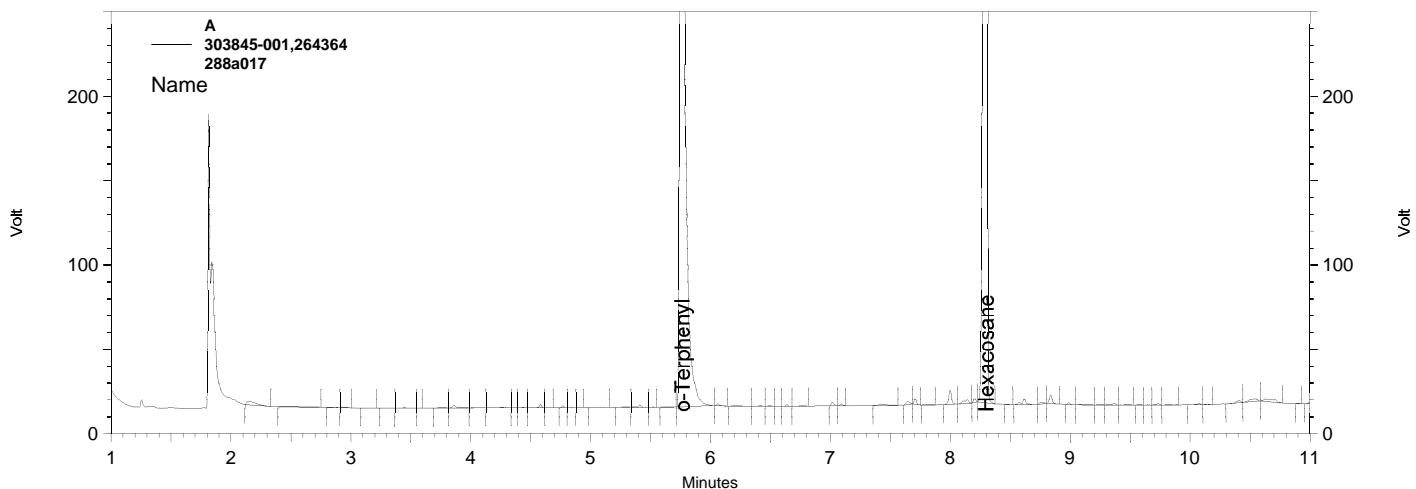
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a017				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	7.94	8.4	0

Sample Name: 303845-001,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a017
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 3:40:43 PM
 Analysis Date: 10/15/2018 6:04:39 PM
 Instrument: GC26A Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.767	3800596	56.106
Hexacosane	8.303	3384342	61.712



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283\2018\288a017, 264364

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a017				
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC27A Lab ID : 303845-002 (S) Client ID : BR11-1GW02
 Seqnum : 978407882022.1 Matrix : Water Acct : TRC-SF (MJD)
 File : 283a022 Batch : 264364 Time : 10-OCT-2018 17:27
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

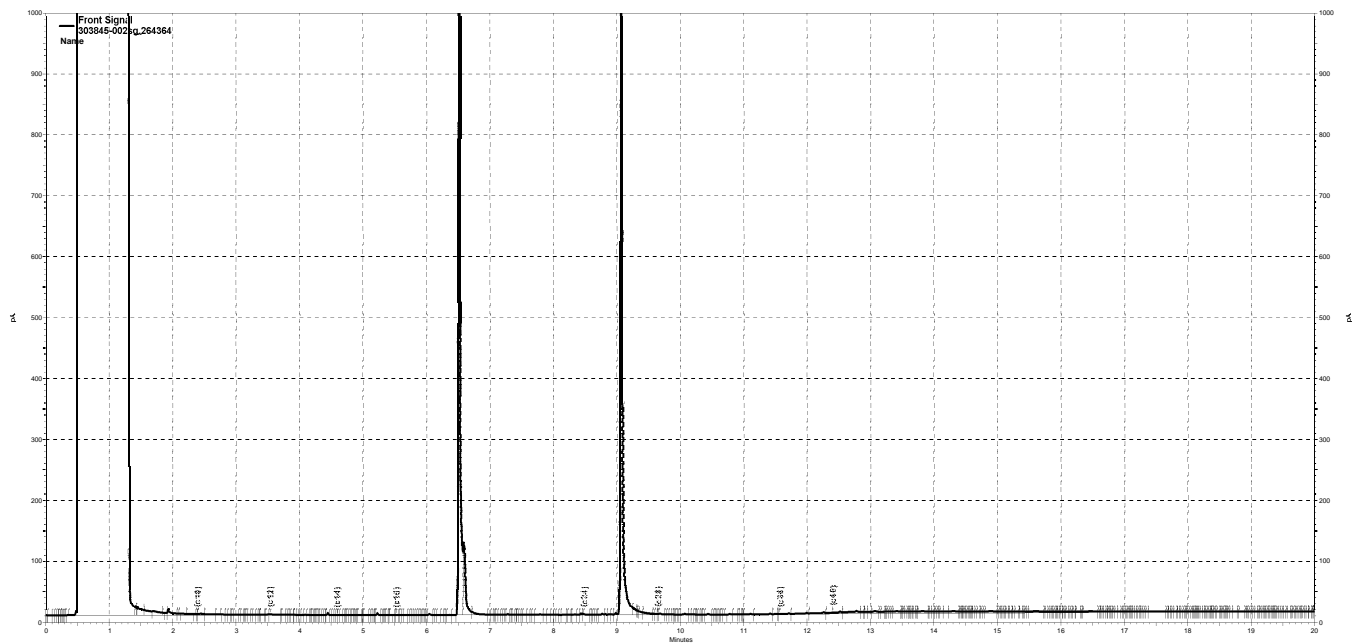
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	978335887001	2.074	ND	50		u
Motor Oil C24-C36	978335887002	1.641	ND	300		u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	978348840001	42.21	250.0	211.0	84	58-123	u

WA1 10/12/18 : Corrected automatically drawn baseline.

WA1: 10/12/18 * EAH: 10/12/18 * CB1: 10/16/18

u=use



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a022.dat, Front Signal

Sample Name: 303845-002sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a022.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 5:27:40 PM
 Analysis Date: 10/12/2018 10:46:31 AM
 Instrument: GC27 (Offline)A Vial: 22 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		599402	1.265
DSL:10-14		570285	3.208
DSL:10-22		24211433	53.437
DSL:10-24		24279382	52.168
DSL:10-28		40297486	85.411
DSL:12-24		23851388	60.910
DSL:12-28		39869492	100.178
DSL:14-24		23713553	78.225
DSL:16-24		23680493	113.341
MO:22-32		16194705	50.627
MO:24-36		16214219	50.125
MO:28-40		543239	2.781
BUNKC:10-40		40751748	201.671
BUNKC:12-40		40323754	205.840

? 0 0.000

 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

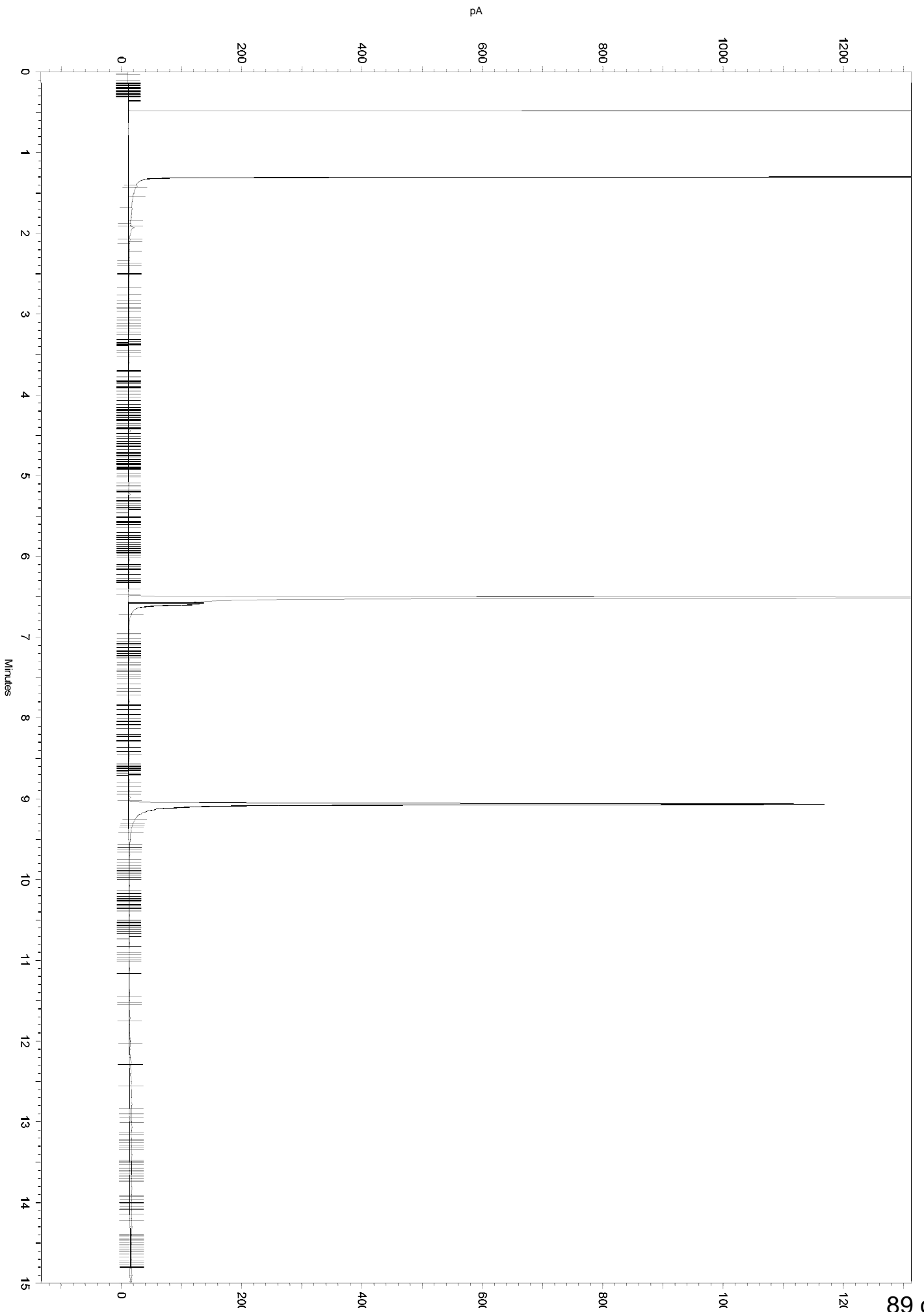
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a022.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.467	8.123	0
No	Split Peak	6.716	0	0
No	Manual Peak	8.721	10.623	0
No	Split Peak	9.021	0	0
No	Split Peak	9.43	0	0
Yes	Move BL Start	4.178	0.279	0



Sample Name: 303845-002sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a022.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 5:27:40 PM
 Analysis Date: 10/12/2018 10:46:20 AM
 Instrument: GC27 (Offline)A Vial: 22 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		111507	0.235
DSL:10-14		83835	0.472
DSL:10-22		23723538	52.360
DSL:10-24		23791487	51.120
DSL:10-28		39809591	84.377
DSL:12-24		23764029	60.687
DSL:12-28		39782133	99.959
DSL:14-24		23708726	78.209
DSL:16-24		23680493	113.341
MO:22-32		16194705	50.627
MO:24-36		16214219	50.125
MO:28-40		543239	2.781
BUNKC:10-40		40263853	199.256
BUNKC:12-40		40236395	205.394

? 0 0.000

 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

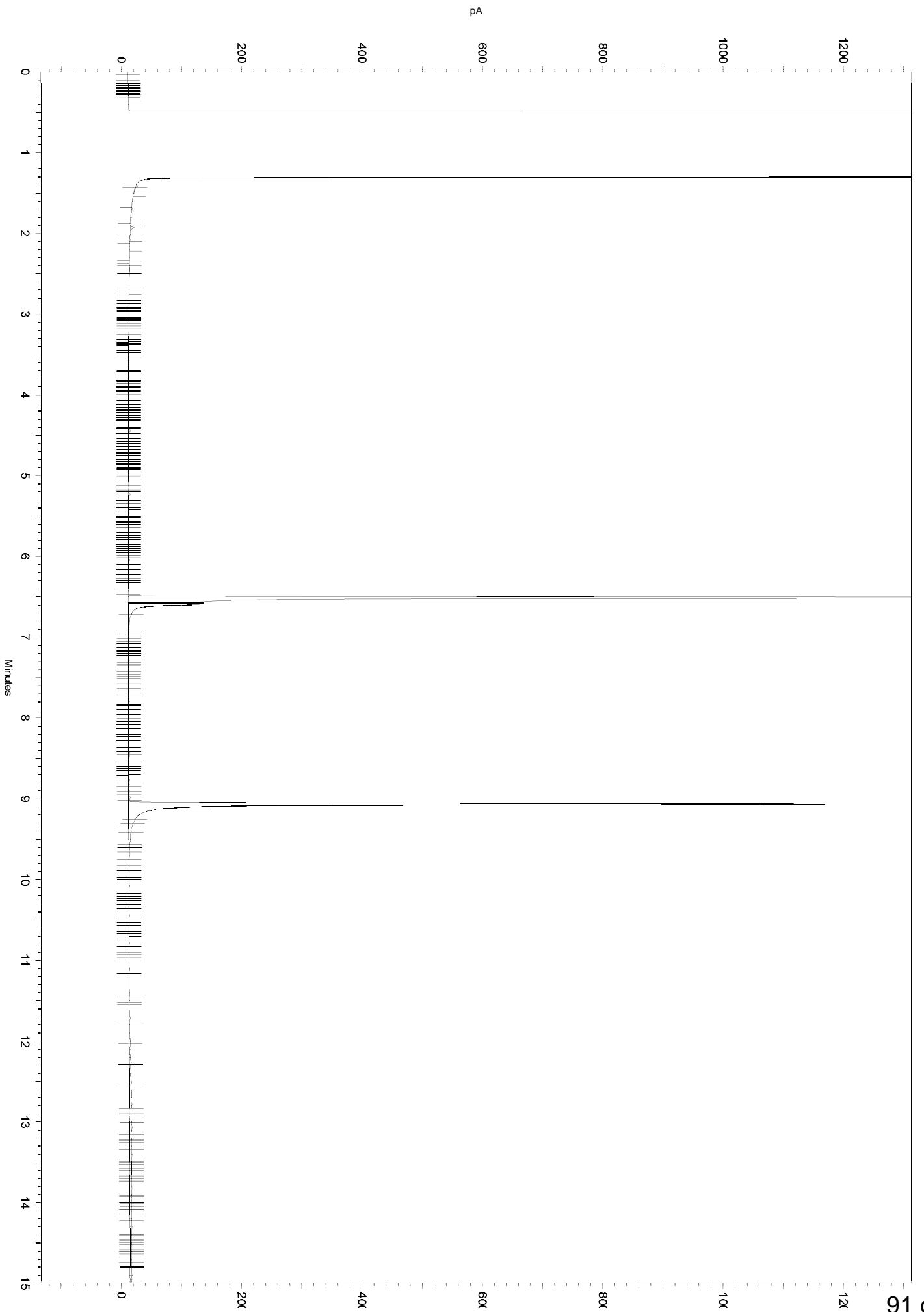
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a022.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.467	8.123	0
No	Split Peak	6.716	0	0
No	Manual Peak	8.721	10.623	0
No	Split Peak	9.021	0	0
No	Split Peak	9.43	0	0



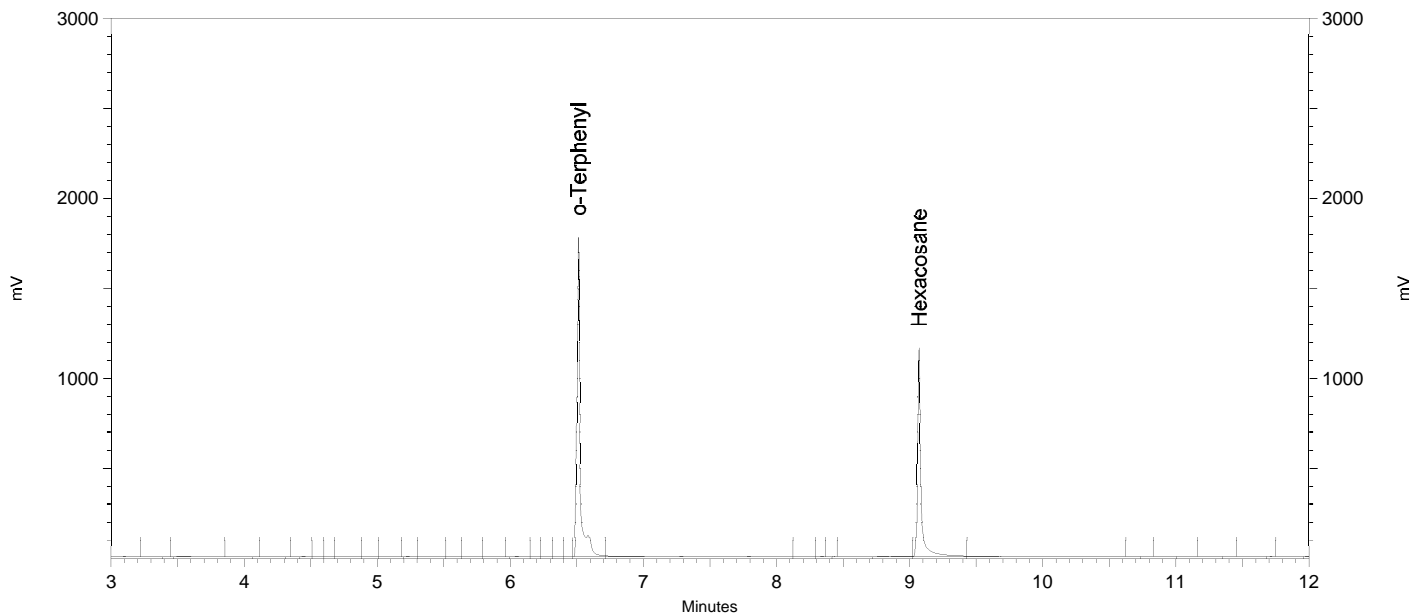
Sample Name: 303845-002sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a022.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 5:27:40 PM
 Analysis Date: 10/11/2018 12:47:24 PM
 Instrument: GC27 (Offline)A Vial: 22 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.515	23314155	42.207
Hexacosane	9.068	15683358	34.051



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a022.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak        6.467  8.123   0
Yes Split Peak         6.716   0     0
Yes Manual Peak        8.721 10.623  0
Yes Split Peak         9.021   0     0
  
```

Yes Split Peak

9.43 0 0

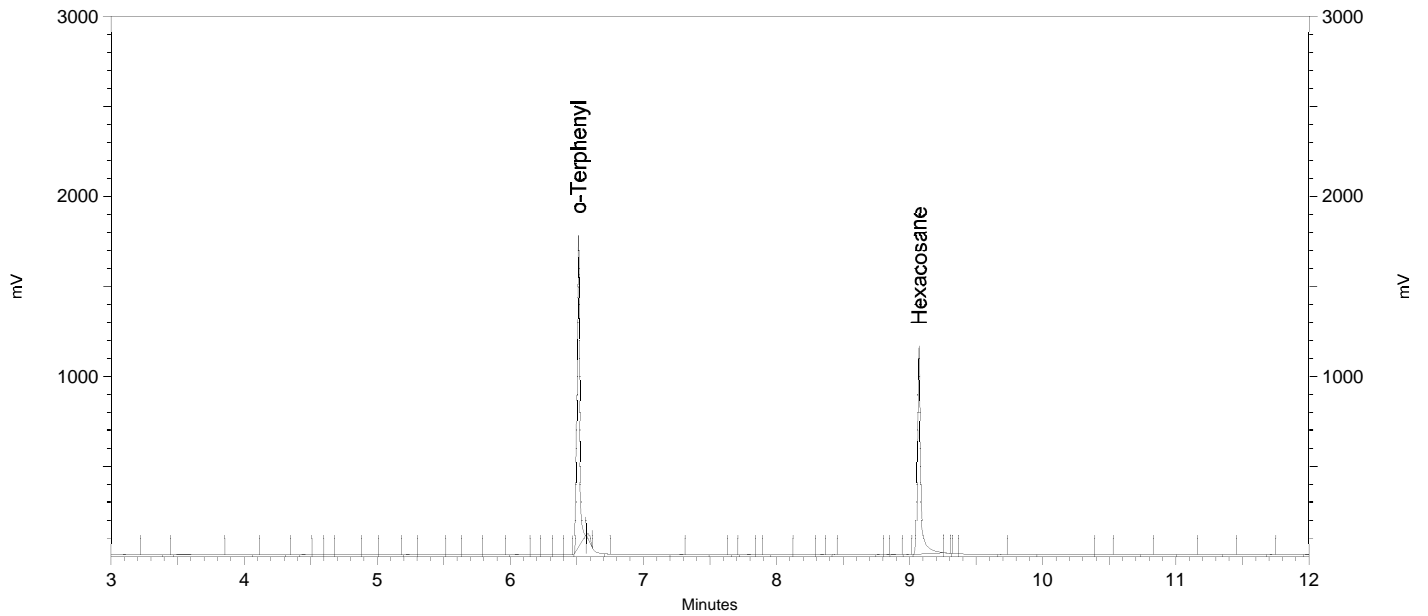
Sample Name: 303845-002sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a022.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 5:27:40 PM
 Analysis Date: 10/11/2018 12:46:45 PM
 Instrument: GC27 (Offline)A Vial: 22 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.515	18439144	33.382
Hexacosane	9.068	14591147	31.680



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a022.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC26A Lab ID : 303845-002 Client ID : BR11-1GW02
 Seqnum : 868415085018 Matrix : Water Acct : TRC-SF (MJD)
 File : 288a018 Batch : 264364 Time : 15-OCT-2018 16:08
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

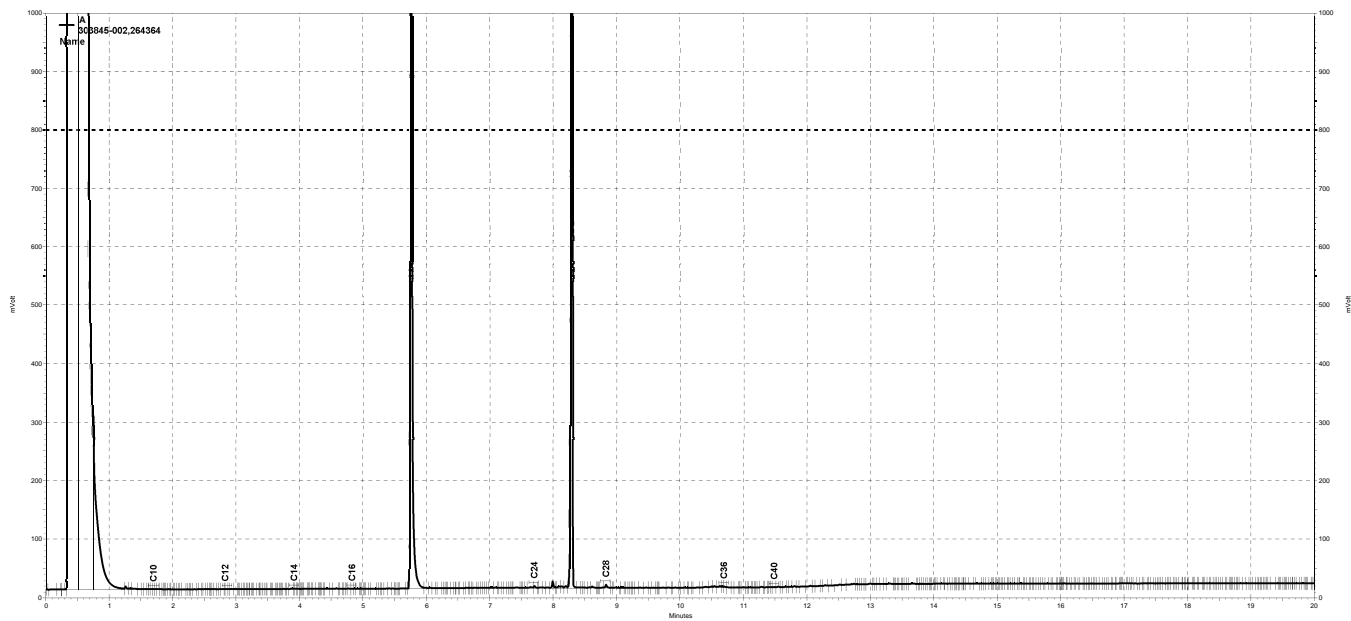
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	868380491001	2.753	ND	50		u
Motor Oil C24-C36	868409292001	4.120	ND	300		u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	868397771001	48.43	250.0	242.2	97	58-123	u

WA1 10/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/16/18 Reviewer: EAH Date: 10/16/18

u=use



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a018, A

Sample Name: 303845-002,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a018
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
 Run Date: 10/15/2018 4:08:14 PM
 Analysis Date: 10/15/2018 6:07:41 PM
 Instrument: GC26A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	34430	0.740
DSL:10-14	24186	1.112
DSL:10-22	3394363	61.390
DSL:10-24	3437421	60.419
DSL:10-28	6449995	111.914
DSL:12-24	3426328	70.697
DSL:12-28	6438902	130.858
DSL:14-24	3416755	92.713
DSL:16-24	3404678	129.908
MO:22-32	3080254	70.668
MO:24-36	3089399	71.020
MO:28-40	83597	3.174
BUNKC:10-40	6518648	207.887
BUNKC:12-40	6507555	213.098

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

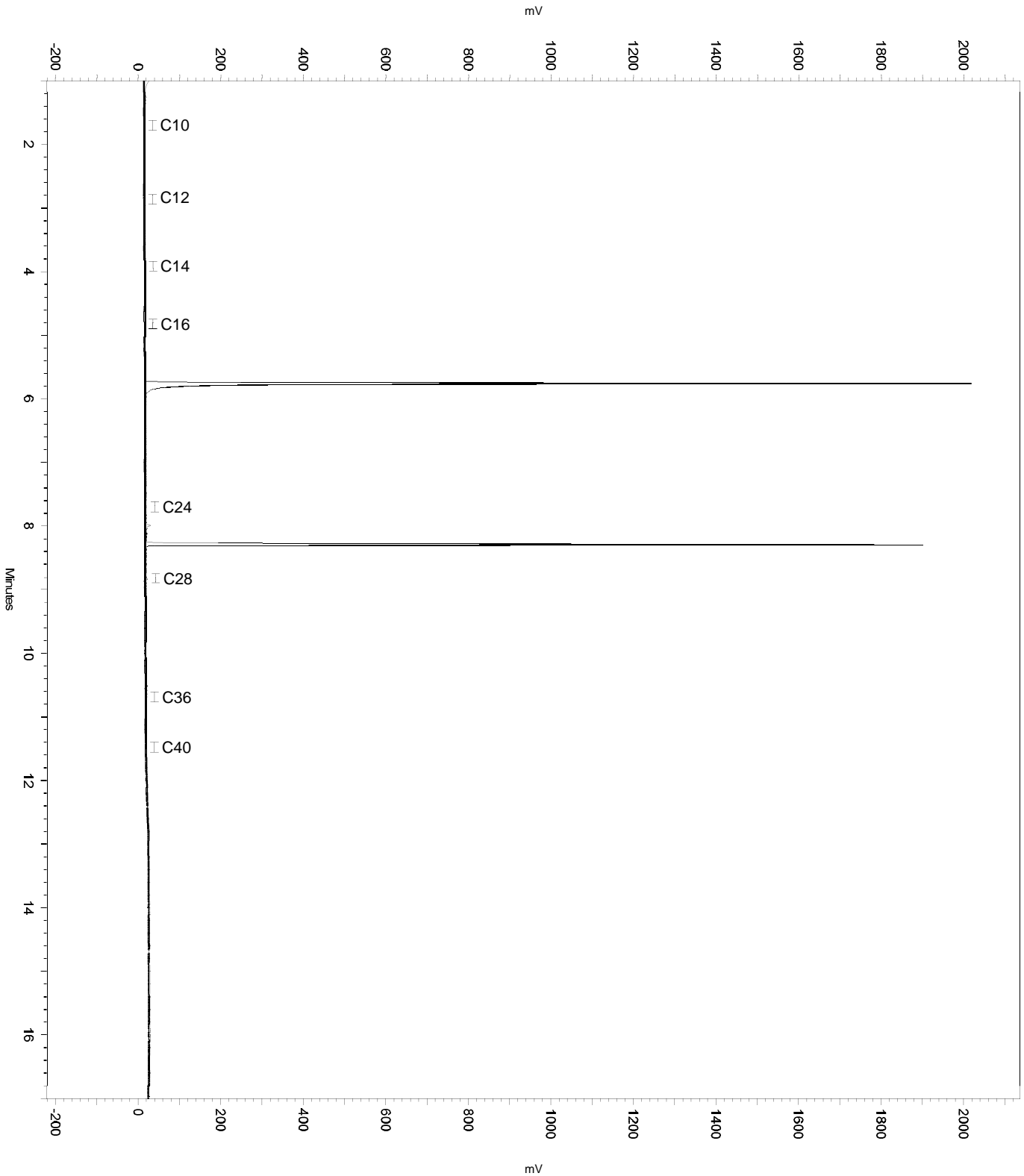
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a018				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	7.943	8.429	0
Yes	Move BL Stop	8.96	9.548	0

Sample Name: 303845-002,264364
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a018
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
Run Date: 10/15/2018 4:08:14 PM
Analysis Date: 10/15/2018 6:07:41 PM
Instrument: GC26A Vial: 18 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 303845-002,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a018
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
 Run Date: 10/15/2018 4:08:14 PM
 Analysis Date: 10/15/2018 6:06:51 PM
 Instrument: GC26A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	34430	0.740
DSL:10-14	24186	1.112
DSL:10-22	3379457	61.120
DSL:10-24	3411332	59.960
DSL:10-28	6395504	110.969
DSL:12-24	3400239	70.158
DSL:12-28	6384411	129.750
DSL:14-24	3390666	92.005
DSL:16-24	3378589	128.912
MO:22-32	3034324	69.615
MO:24-36	3053567	70.197
MO:28-40	74809	2.840
BUNKC:10-40	6460275	206.026
BUNKC:12-40	6449182	211.187

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

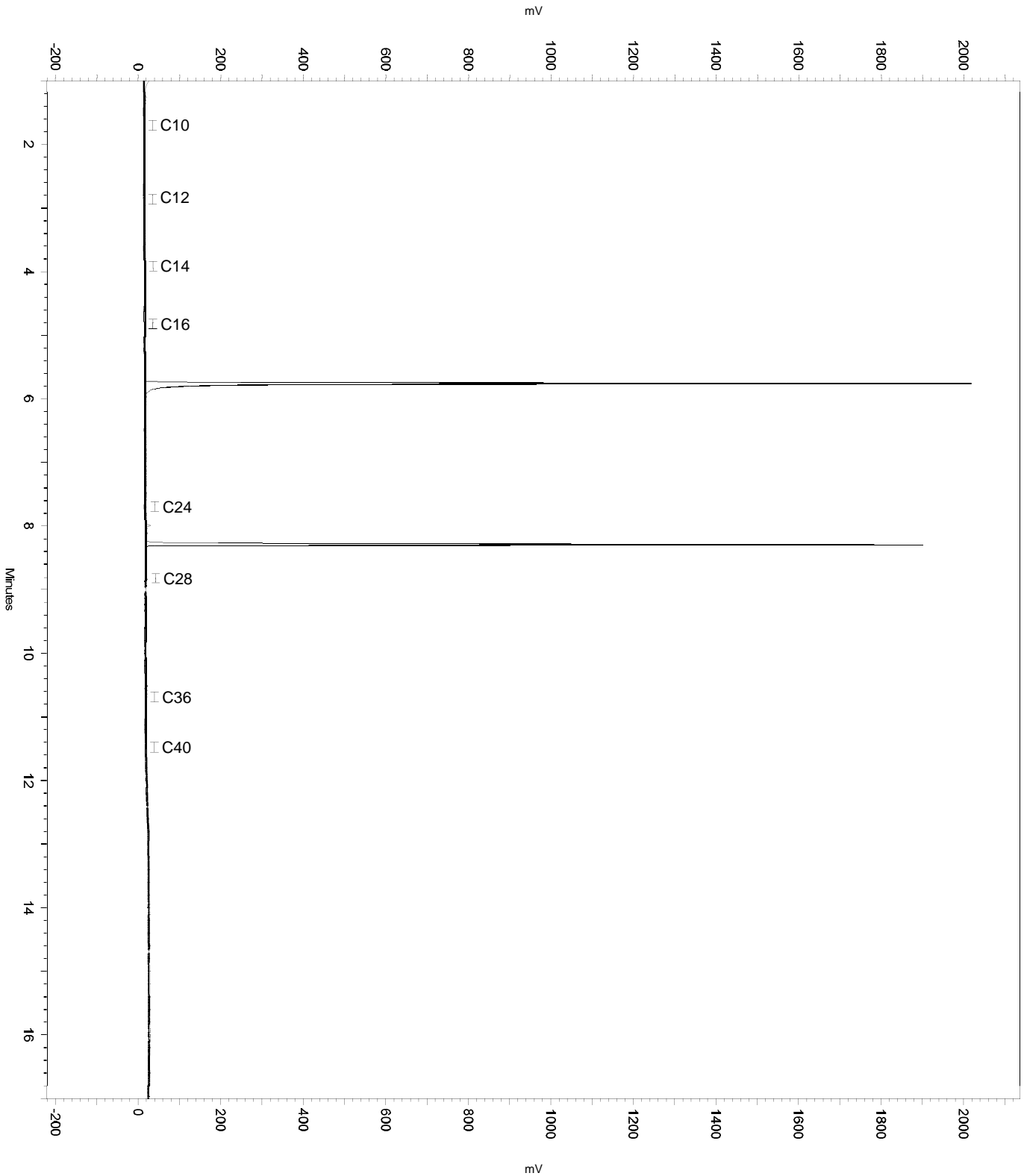
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a018				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	7.943	8.429	0

Sample Name: 303845-002,264364
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a018
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
Run Date: 10/15/2018 4:08:14 PM
Analysis Date: 10/15/2018 6:06:51 PM
Instrument: GC26A Vial: 18 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

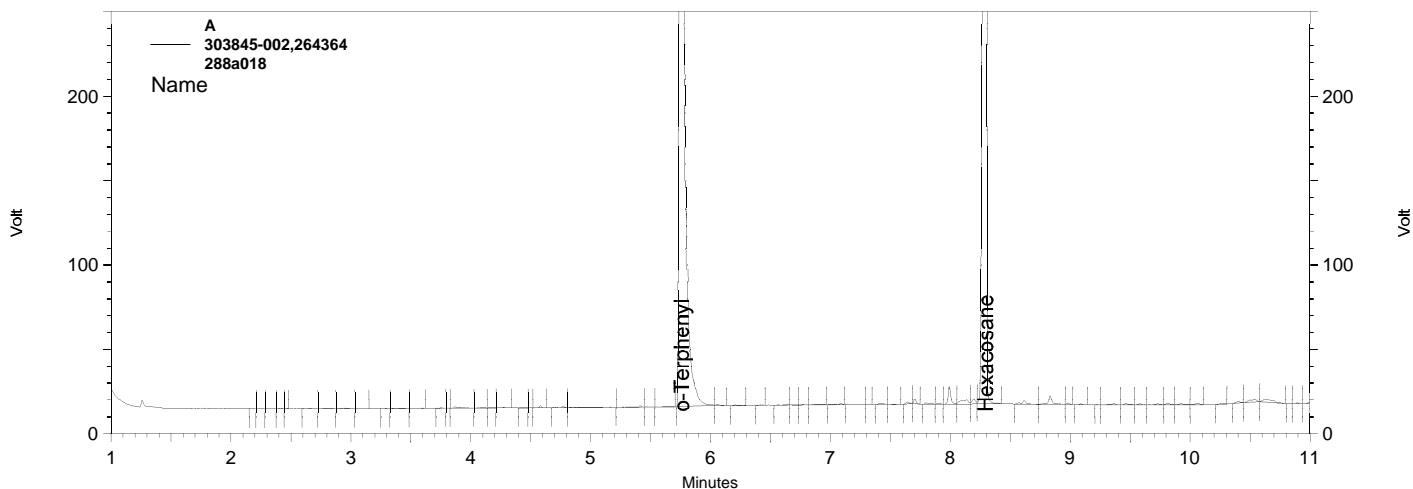


Sample Name: 303845-002,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a018
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 4:08:14 PM
 Analysis Date: 10/15/2018 6:05:10 PM
 Instrument: GC26A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.762	3280806	48.433
Hexacosane	8.297	2910193	53.066



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283\2018\288a018\303845-002,264364

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

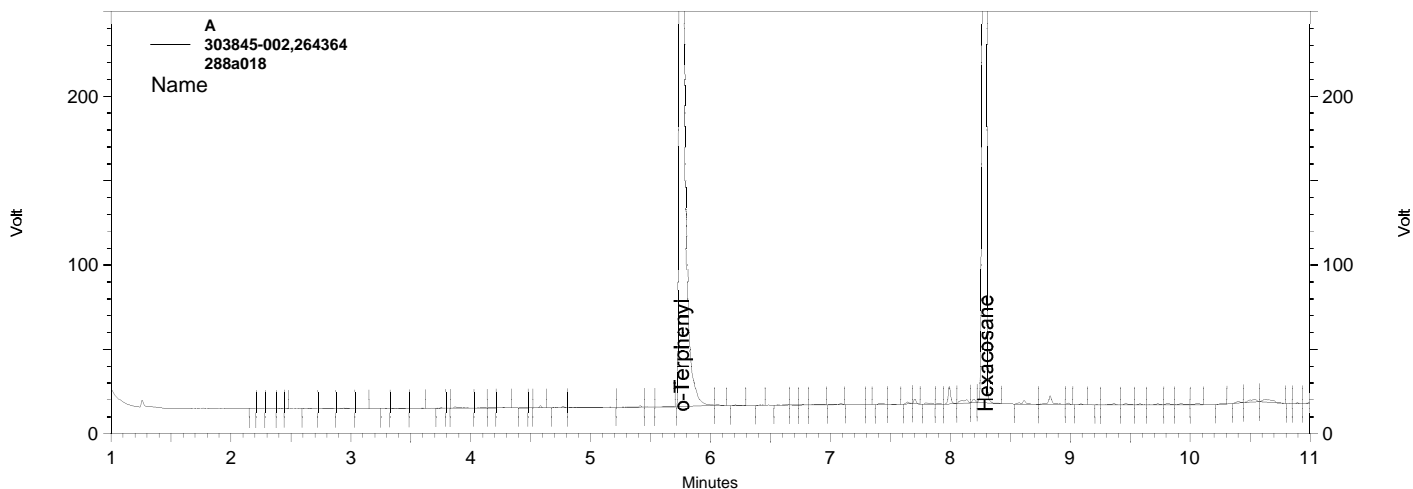
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a018				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	7.943	8.429	0

Sample Name: 303845-002,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a018
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 4:08:14 PM
 Analysis Date: 10/15/2018 6:04:59 PM
 Instrument: GC26A Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.762	3280806	48.433
Hexacosane	8.297	2904744	52.967



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283\303845m002,264364

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a018				
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC27A Lab ID : 303845-003 (S) Client ID : BR11-1GW03
 Seqnum : 978407882023.1 Matrix : Water Acct : TRC-SF (MJD)
 File : 283a023 Batch : 264364 Time : 10-OCT-2018 17:52
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

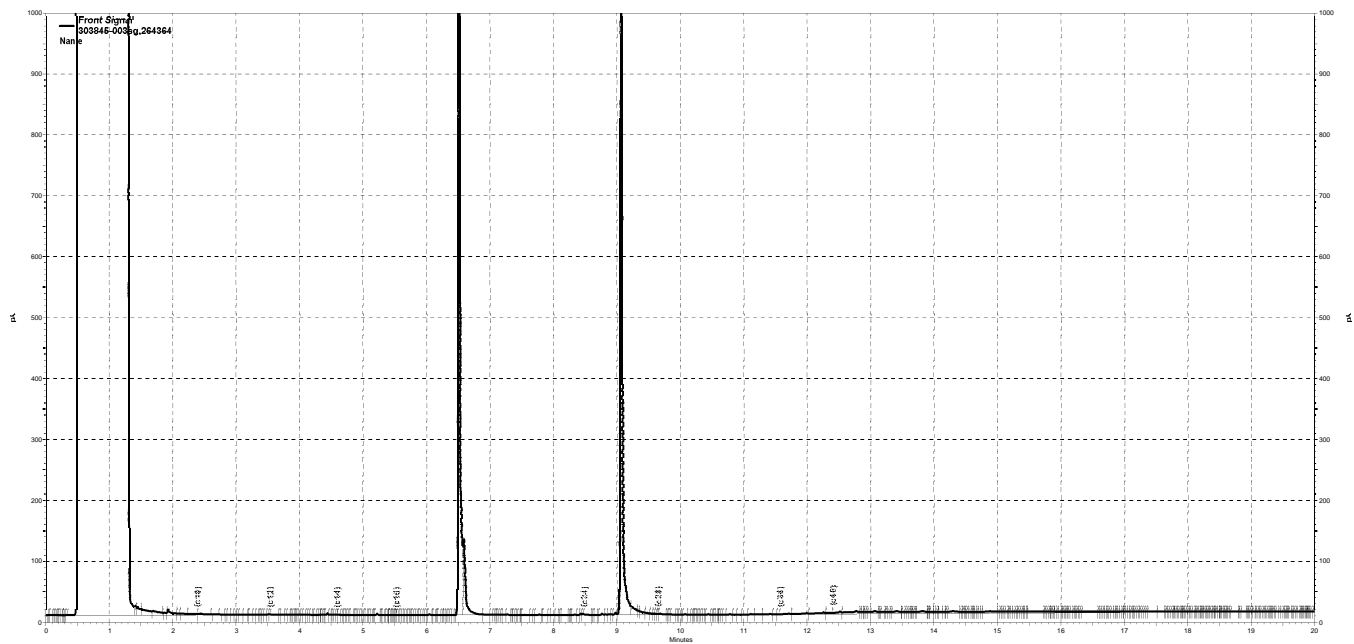
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	978335887001	1.739	ND	50		u
Motor Oil C24-C36	978335887002	1.733	ND	300		u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	978348840001	49.56	250.0	247.8	99	58-123	u

WA1 10/12/18 : Corrected automatically drawn baseline.

WA1: 10/12/18 * EAH: 10/12/18 * CB1: 10/16/18

u=use



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a023.dat, Front Signal

Sample Name: 303845-003sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a023.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 5:52:45 PM
 Analysis Date: 10/12/2018 10:46:55 AM
 Instrument: GC27 (Offline)A Vial: 23 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		428439	0.905
DSL:10-14		398825	2.244
DSL:10-22		28113896	62.050
DSL:10-24		28183185	60.556
DSL:10-28		47282679	100.216
DSL:12-24		27870980	71.175
DSL:12-28		46970474	118.020
DSL:14-24		27788167	91.666
DSL:16-24		27755855	132.847
MO:22-32		19271648	60.245
MO:24-36		19290321	59.634
MO:28-40		563185	2.883
BUNKC:10-40		47726243	236.186
BUNKC:12-40		47414038	242.034

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

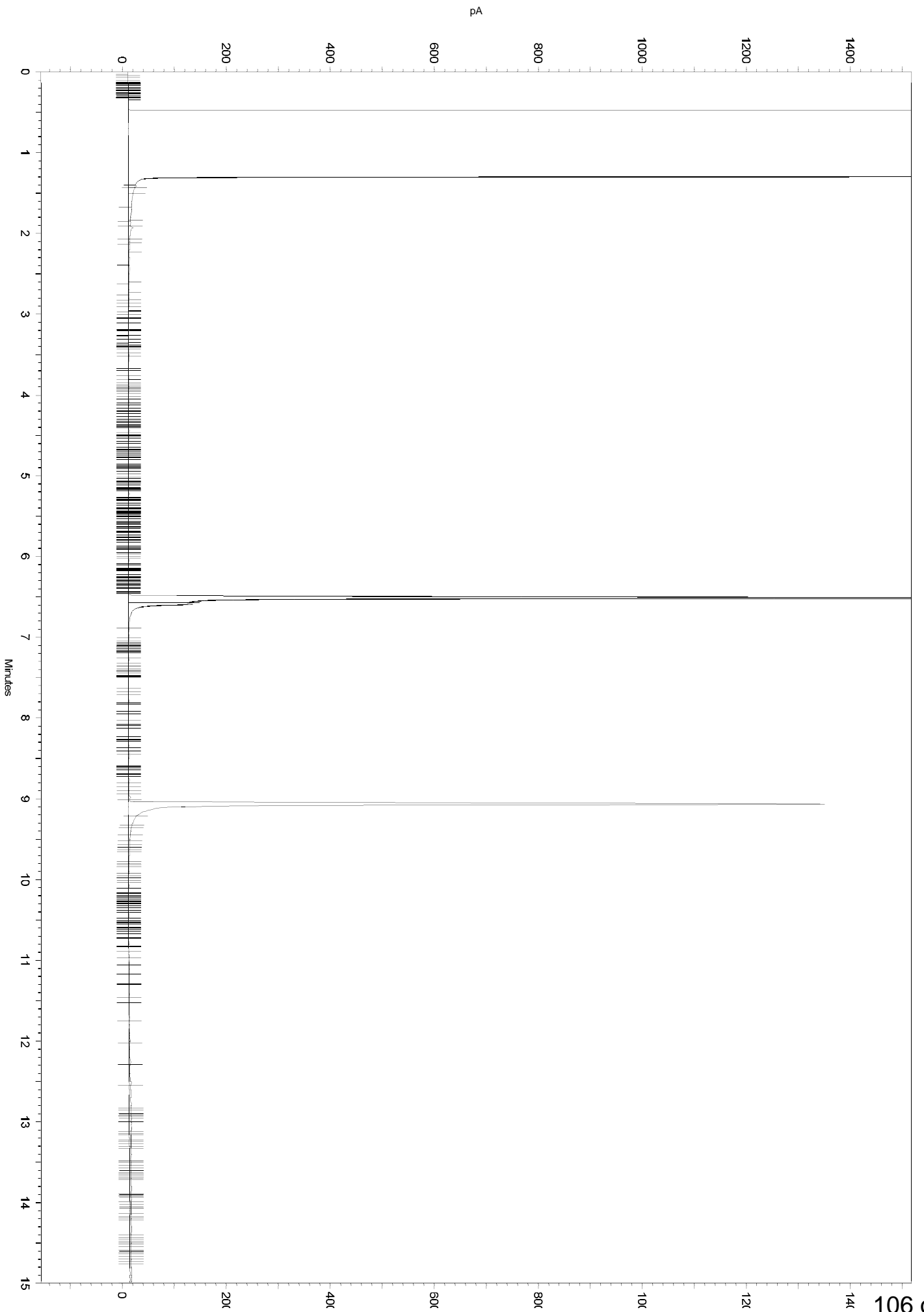
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width              0         0     0
Yes Threshold          0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a023.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Peak         6.458     8.128     0
No Split Peak          6.708     0         0
No Manual Peak         8.721    10.636     0
No Split Peak          9.021     0         0
No Split Peak          9.455     0         0
Yes Move BL Start      4.018     0.281     0
  
```



Sample Name: 303845-003sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a023.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 5:52:45 PM
 Analysis Date: 10/12/2018 10:46:40 AM
 Instrument: GC27 (Offline)A Vial: 23 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		107200	0.226
DSL:10-14		77586	0.436
DSL:10-22		27792657	61.341
DSL:10-24		27861946	59.866
DSL:10-28		46961440	99.536
DSL:12-24		27836357	71.087
DSL:12-28		46935851	117.933
DSL:14-24		27788167	91.666
DSL:16-24		27755855	132.847
MO:22-32		19271648	60.245
MO:24-36		19290321	59.634
MO:28-40		563185	2.883
BUNKC:10-40		47405004	234.596
BUNKC:12-40		47379415	241.857

? 0 0.000

 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

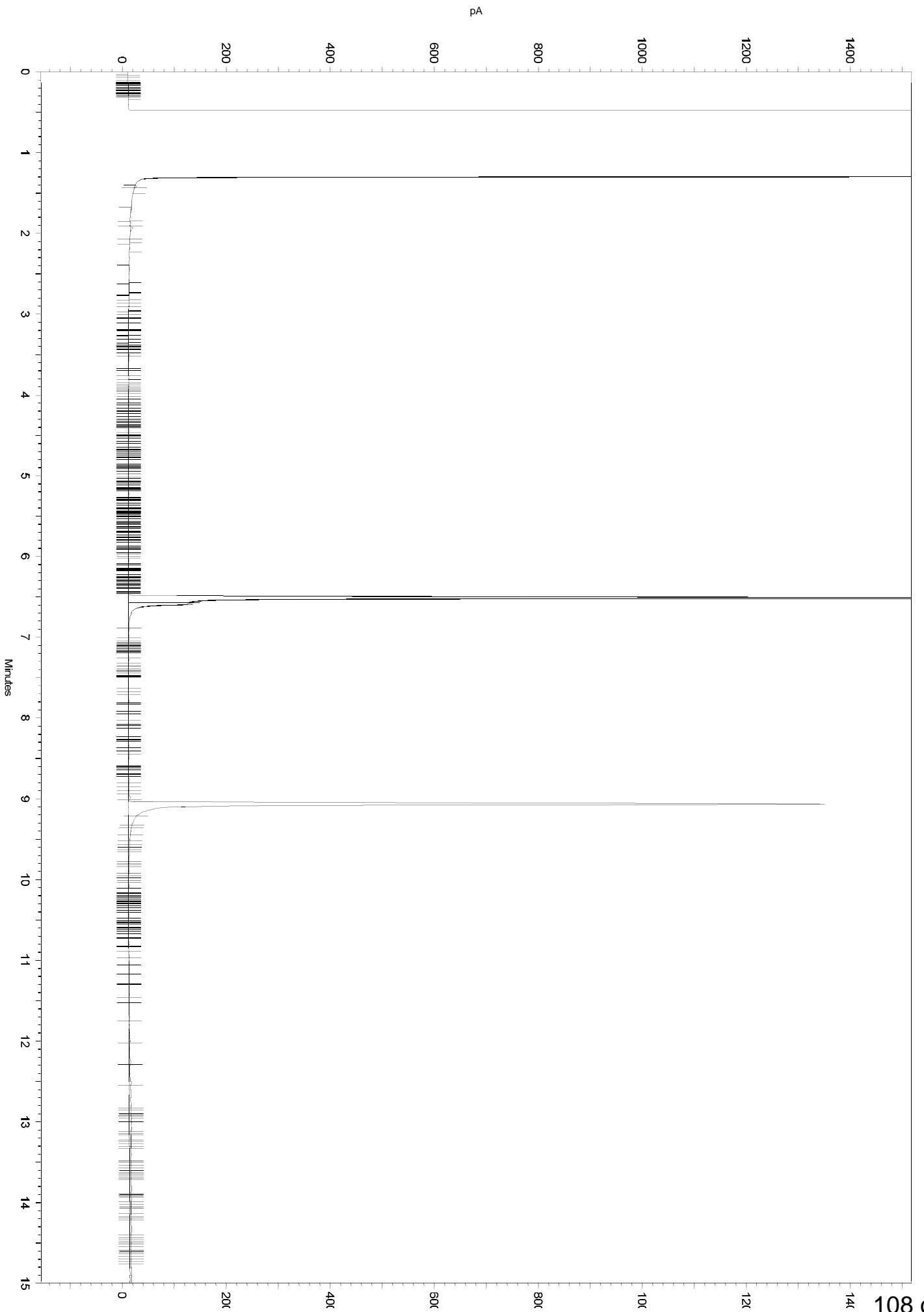
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a023.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.458	8.128	0
No	Split Peak	6.708	0	0
No	Manual Peak	8.721	10.636	0
No	Split Peak	9.021	0	0
No	Split Peak	9.455	0	0

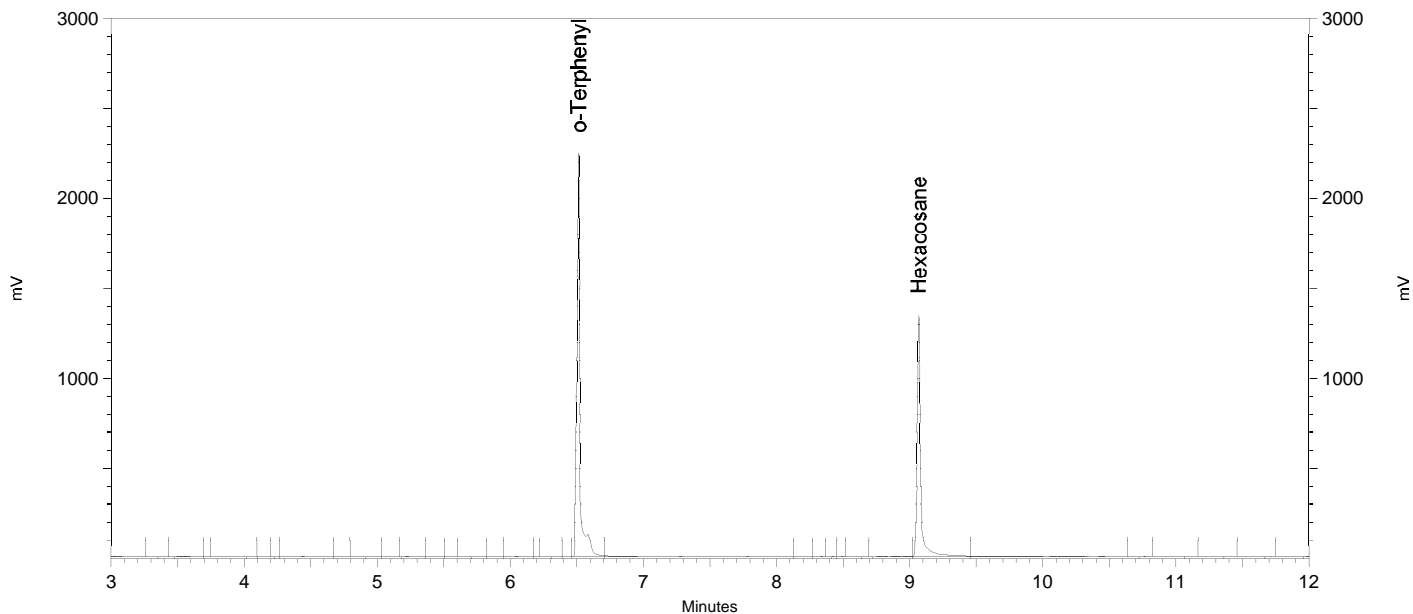


Sample Name: 303845-003sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a023.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 5:52:45 PM
 Analysis Date: 10/11/2018 12:48:34 PM
 Instrument: GC27 (Offline)A Vial: 23 Operator: teh
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.515	27373959	49.557
Hexacosane	9.067	18729829	40.665



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a023.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.458  8.128  0
Yes Split Peak          6.708  0      0
Yes Manual Peak         8.721  10.636 0
Yes Split Peak          9.021  0      0
  
```

Yes Split Peak

9.455 0 0

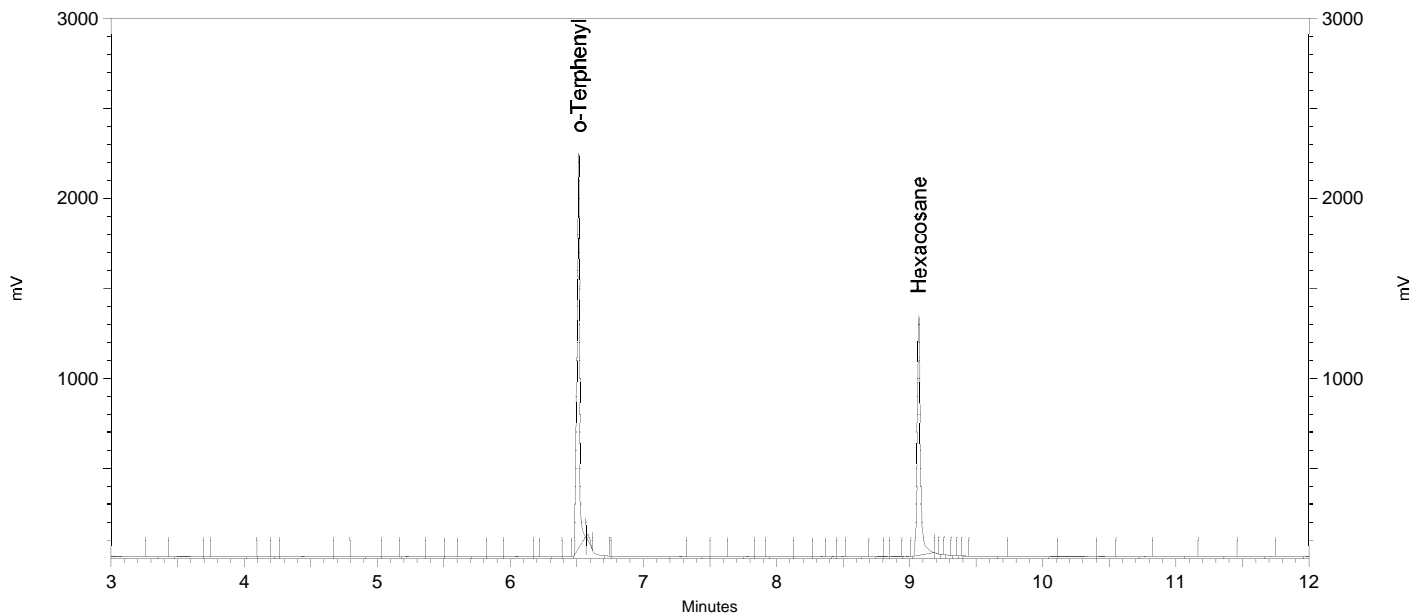
Sample Name: 303845-003sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a023.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 5:52:45 PM
 Analysis Date: 10/11/2018 12:47:30 PM
 Instrument: GC27 (Offline)A Vial: 23 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.515	22315412	40.399
Hexacosane	9.067	16778467	36.429



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a023.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC26A Lab ID : 303845-003 Client ID : BR11-1GW03
 Seqnum : 868415085019 Matrix : Water Acct : TRC-SF (MJD)
 File : 288a019 Batch : 264364 Time : 15-OCT-2018 16:36
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

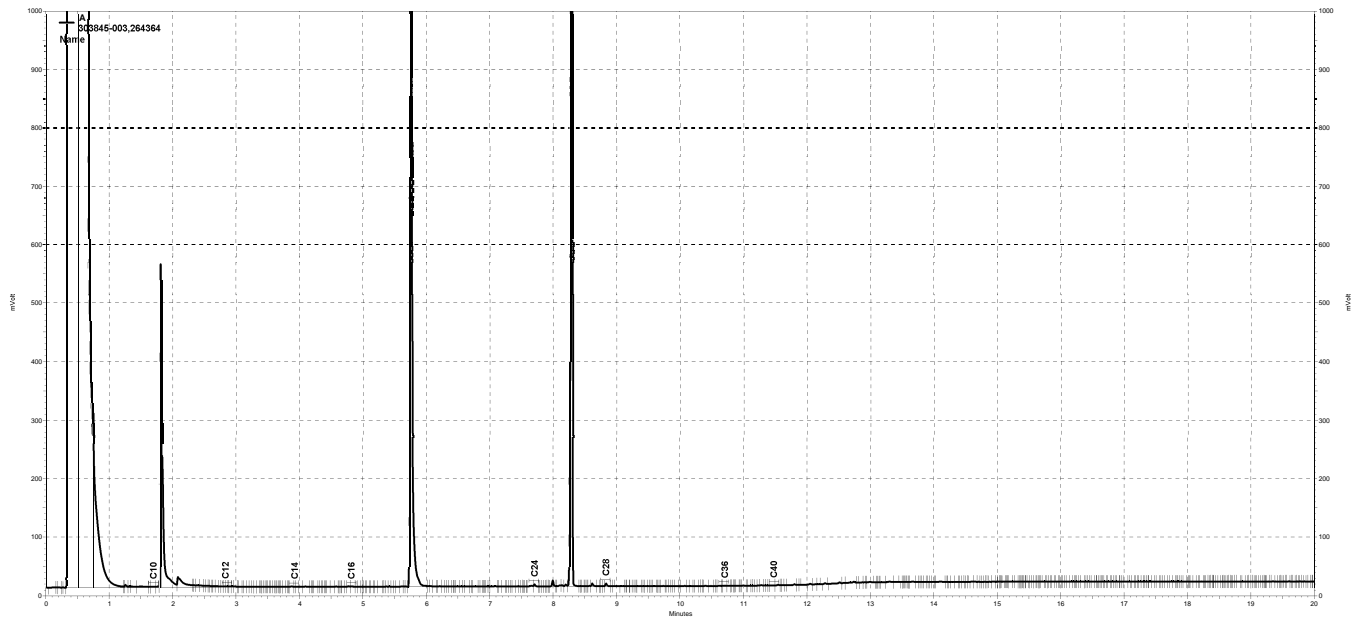
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	868380491001	25.76	130	50		Y Z u
Motor Oil C24-C36	868409292001	1.776	ND	300		u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	868397771001	51.65	250.0	258.3	103	58-123	u

WA1 10/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/16/18 Reviewer: EAH Date: 10/16/18

Y=does not resemble standard Z=single peak u=use



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a019, A

Sample Name: 303845-003,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
 Run Date: 10/15/2018 4:36:02 PM
 Analysis Date: 10/15/2018 6:07:53 PM
 Instrument: GC26A Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	1408673	30.288
DSL:10-14	1382764	63.558
DSL:10-22	4952047	89.562
DSL:10-24	4964803	87.265
DSL:10-28	8132606	141.109
DSL:12-24	3637342	75.051
DSL:12-28	6805145	138.301
DSL:14-24	3588316	97.368
DSL:16-24	3561622	135.896
MO:22-32	3192483	73.243
MO:24-36	3193397	73.411
MO:28-40	32559	1.236
BUNKC:10-40	8157102	260.139
BUNKC:12-40	6829641	223.645

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

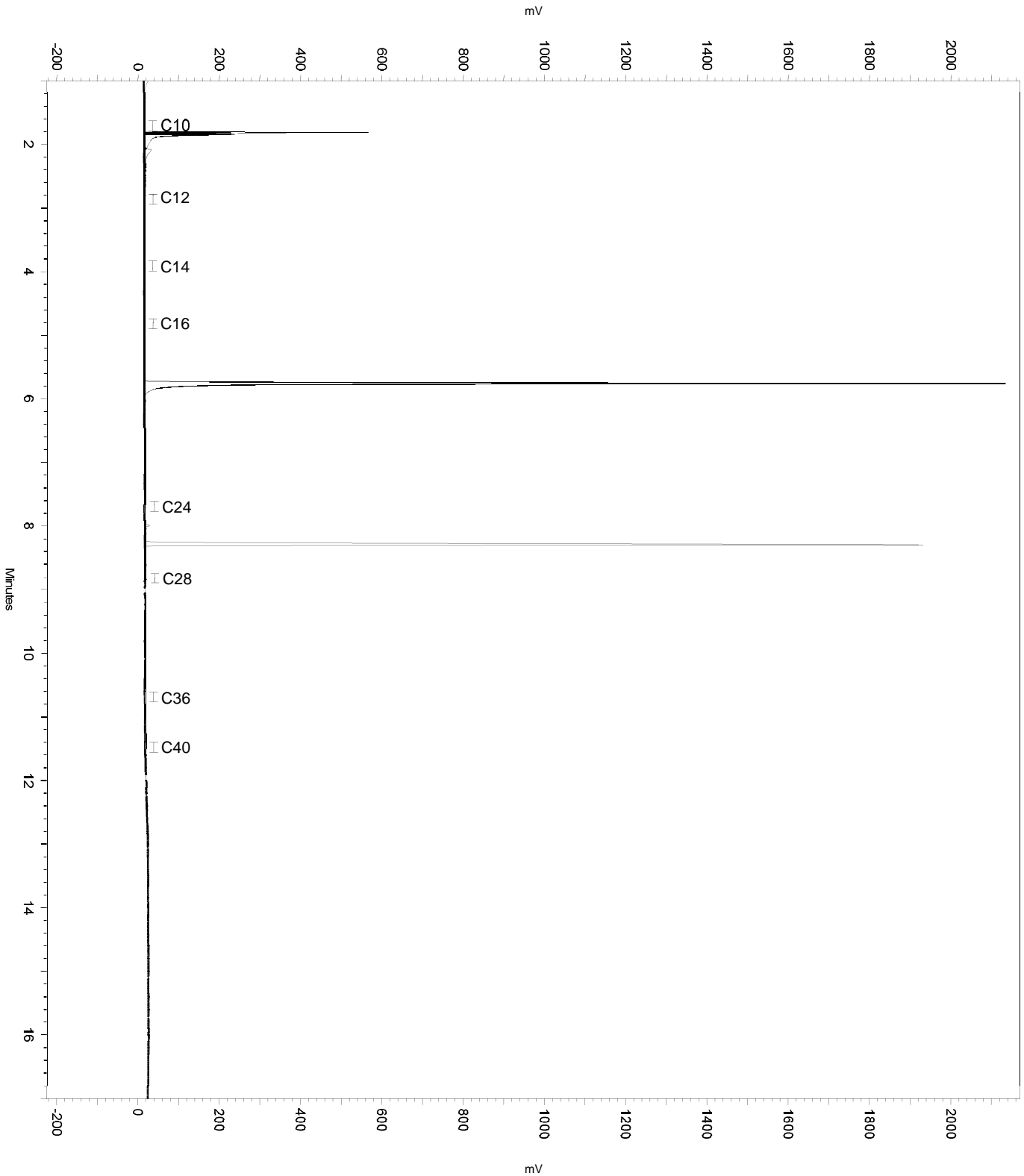
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a019				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	8.057	8.44	0

Sample Name: 303845-003,264364
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a019
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
Run Date: 10/15/2018 4:36:02 PM
Analysis Date: 10/15/2018 6:07:53 PM
Instrument: GC26A Vial: 19 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

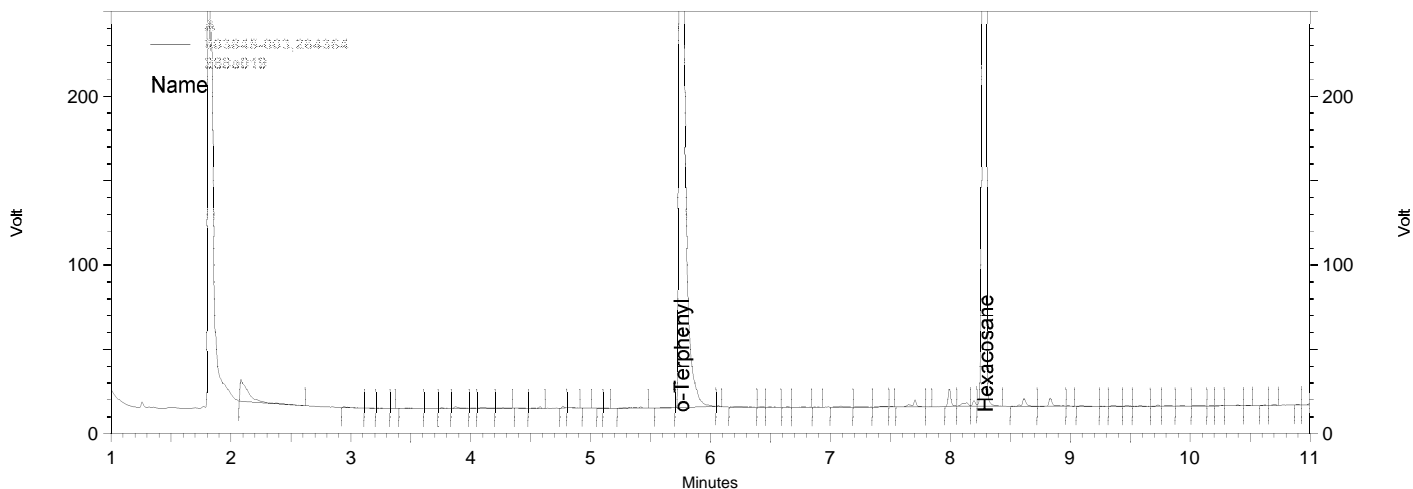


Sample Name: 303845-003,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 4:36:02 PM
 Analysis Date: 10/15/2018 6:05:28 PM
 Instrument: GC26A Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.762	3499066	51.655
Hexacosane	8.297	3116147	56.821



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283\20181015m03,264364

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

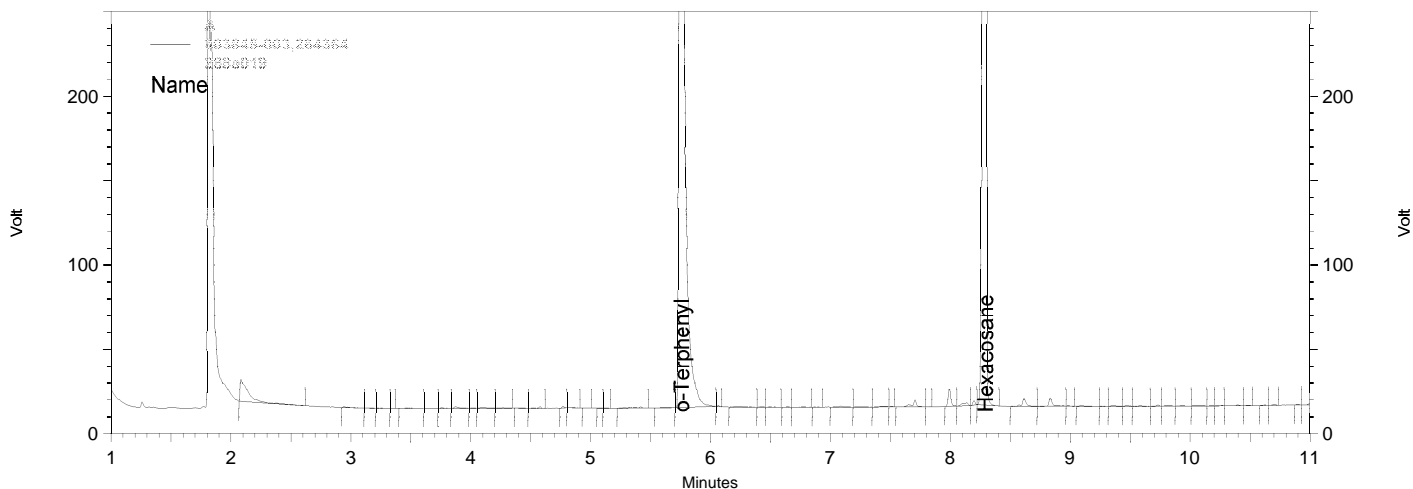
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a019				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	8.057	8.44	0

Sample Name: 303845-003,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 4:36:02 PM
 Analysis Date: 10/15/2018 6:05:17 PM
 Instrument: GC26A Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.762	3499066	51.655
Hexacosane	8.297	3111304	56.733



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283\2018\288a019\303845-003,264364

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a019				
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC27A Lab ID : 303845-004 (S) Client ID : DUP10032018-01
 Seqnum : 978407882024.1 Matrix : Water Acct : TRC-SF (MJD)
 File : 283a024 Batch : 264364 Time : 10-OCT-2018 18:17
 IDF : 1.0 Raw Units : mg/L Units : ug/L

510.00 mL --> 2.5 ml = 0.004902 ml/ml PDF

Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	978335887001	1.366	ND	49		u
Motor Oil C24-C36	978335887002	1.647	ND	290		u

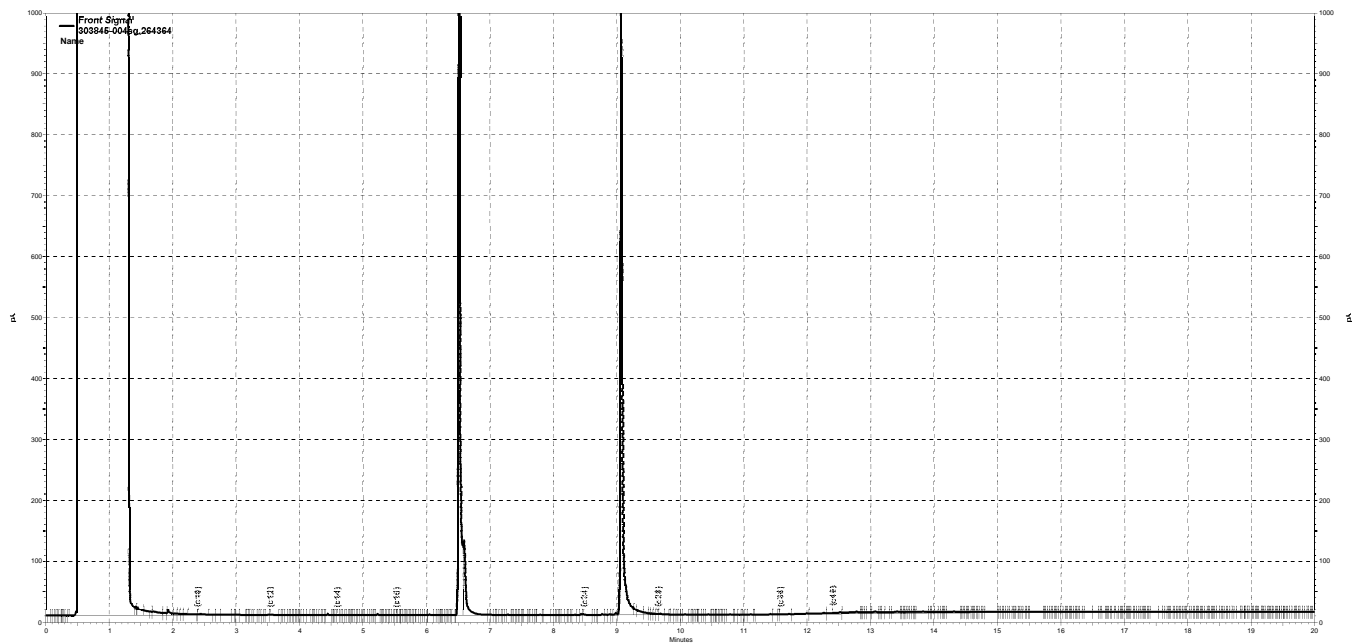
Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	978348840001	43.57	245.1	213.6	87	58-123	u

CB1 10/11/18 : 303845-004sg,264364

WA1 10/12/18 : Corrected automatically drawn baseline.

WA1: 10/12/18 * EAH: 10/12/18 * CB1: 10/16/18

u=use



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a024.dat, Front Signal

Sample Name: 303845-004sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a024.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 6:17:45 PM
 Analysis Date: 10/12/2018 10:47:17 AM
 Instrument: GC27 (Offline)A Vial: 24 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		277674	0.586
DSL:10-14		245877	1.383
DSL:10-22		24638566	54.380
DSL:10-24		24701882	53.076
DSL:10-28		40650432	86.159
DSL:12-24		24500163	62.567
DSL:12-28		40448713	101.633
DSL:14-24		24457468	80.679
DSL:16-24		24426392	116.911
MO:22-32		16143152	50.465
MO:24-36		16148841	49.922
MO:28-40		474263	2.428
BUNKC:10-40		41005494	202.927
BUNKC:12-40		40803775	208.290
?		0	0.000

 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events

=====

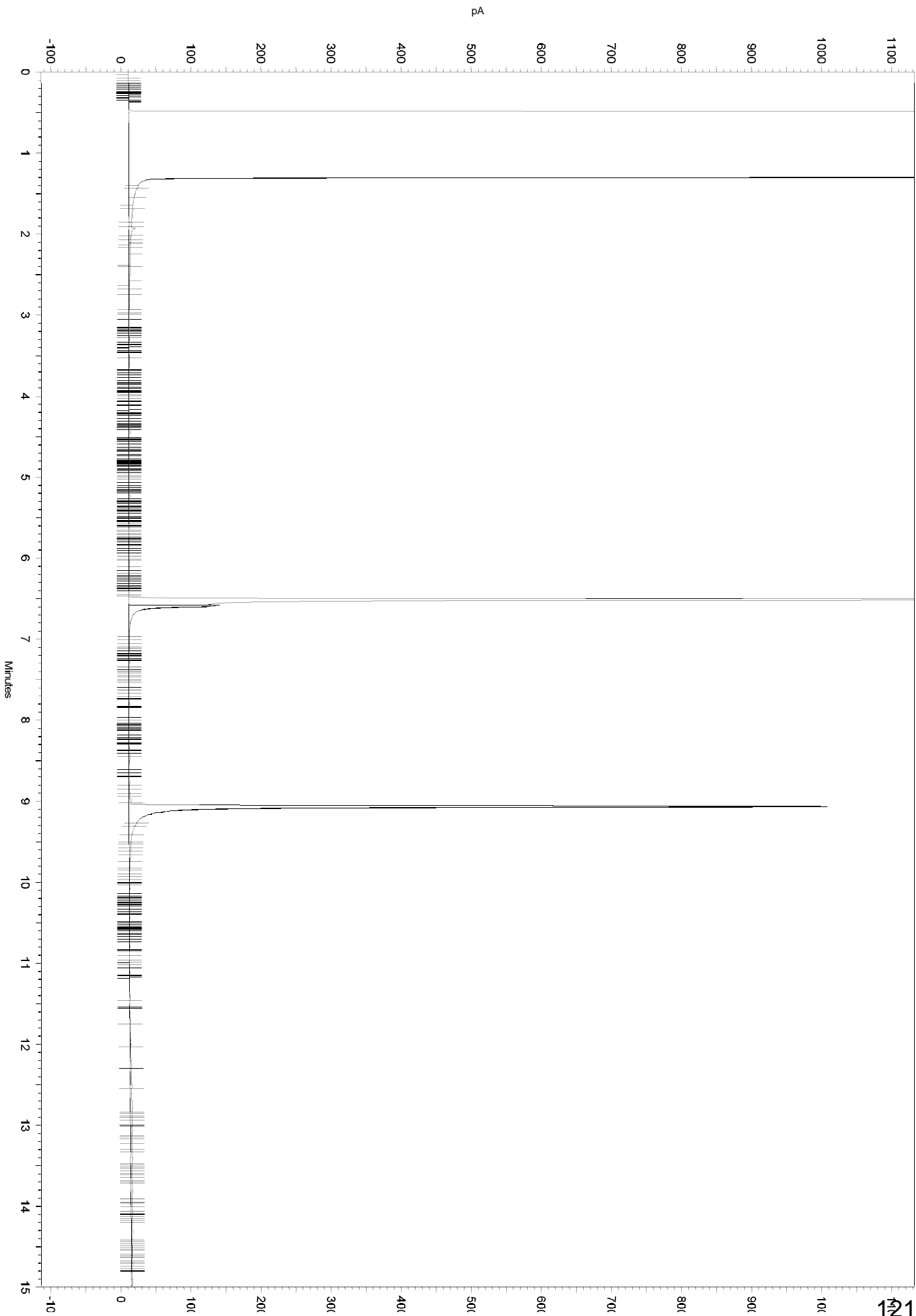
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a024.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.462	8.123	0
No	Split Peak	6.721	0	0
No	Manual Peak	8.724	10.705	0
No	Split Peak	9.014	0	0
No	Split Peak	9.481	0	0
Yes	Move BL Start	3.332	0.29	0



Sample Name: 303845-004sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a024.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 6:17:45 PM
 Analysis Date: 10/12/2018 10:47:05 AM
 Instrument: GC27 (Offline)A Vial: 24 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		98287	0.208
DSL:10-14		66490	0.374
DSL:10-22		24459179	53.984
DSL:10-24		24522495	52.691
DSL:10-28		40471045	85.779
DSL:12-24		24500163	62.567
DSL:12-28		40448713	101.633
DSL:14-24		24457468	80.679
DSL:16-24		24426392	116.911
MO:22-32		16143152	50.465
MO:24-36		16148841	49.922
MO:28-40		474263	2.428
BUNKC:10-40		40826107	202.039
BUNKC:12-40		40803775	208.290

? 0 0.000

 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events

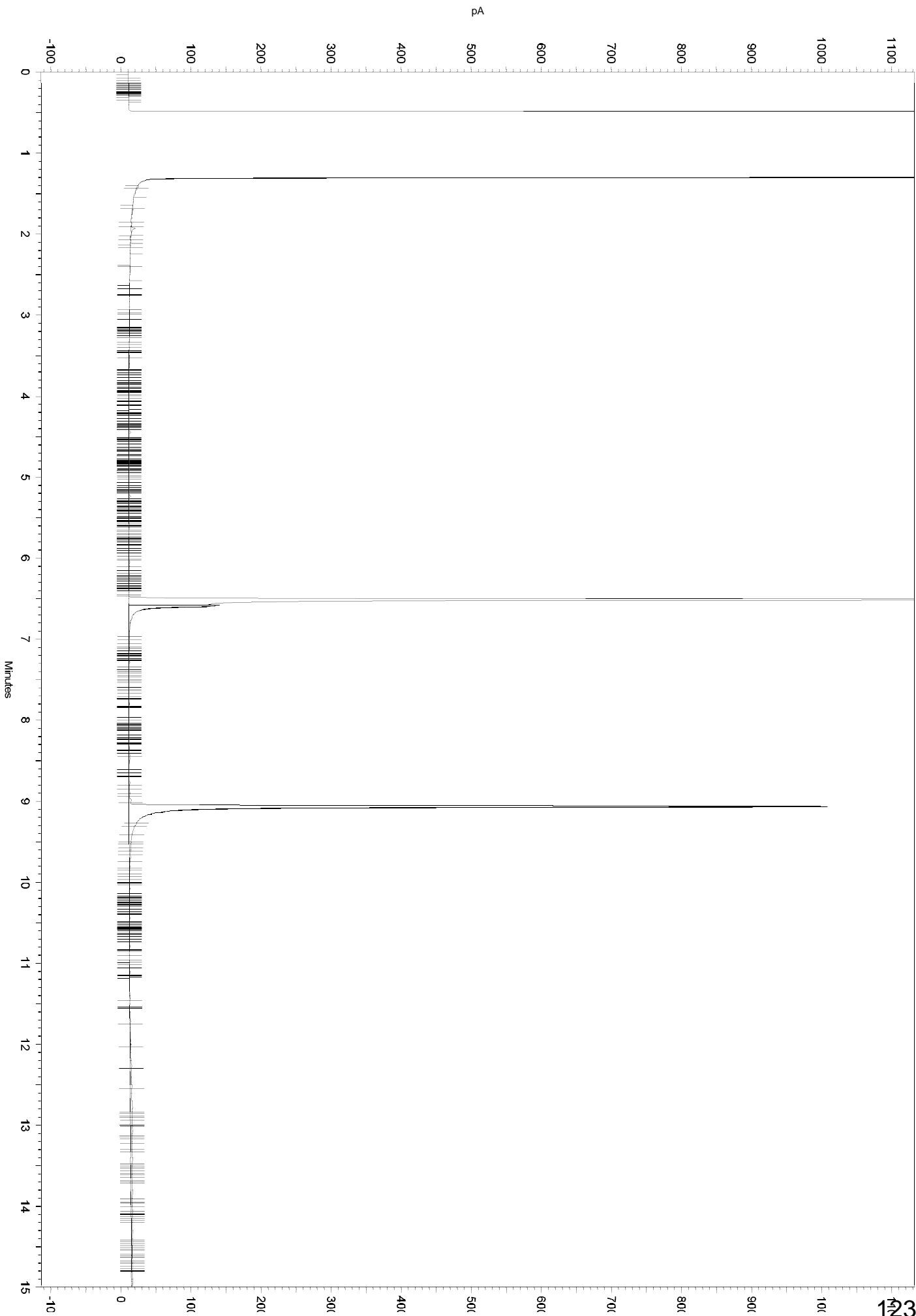
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a024.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Peak          6.462     8.123     0
No Split Peak           6.721     0          0
No Manual Peak          8.724    10.705     0
No Split Peak           9.014     0          0
No Split Peak           9.481     0          0
  
```

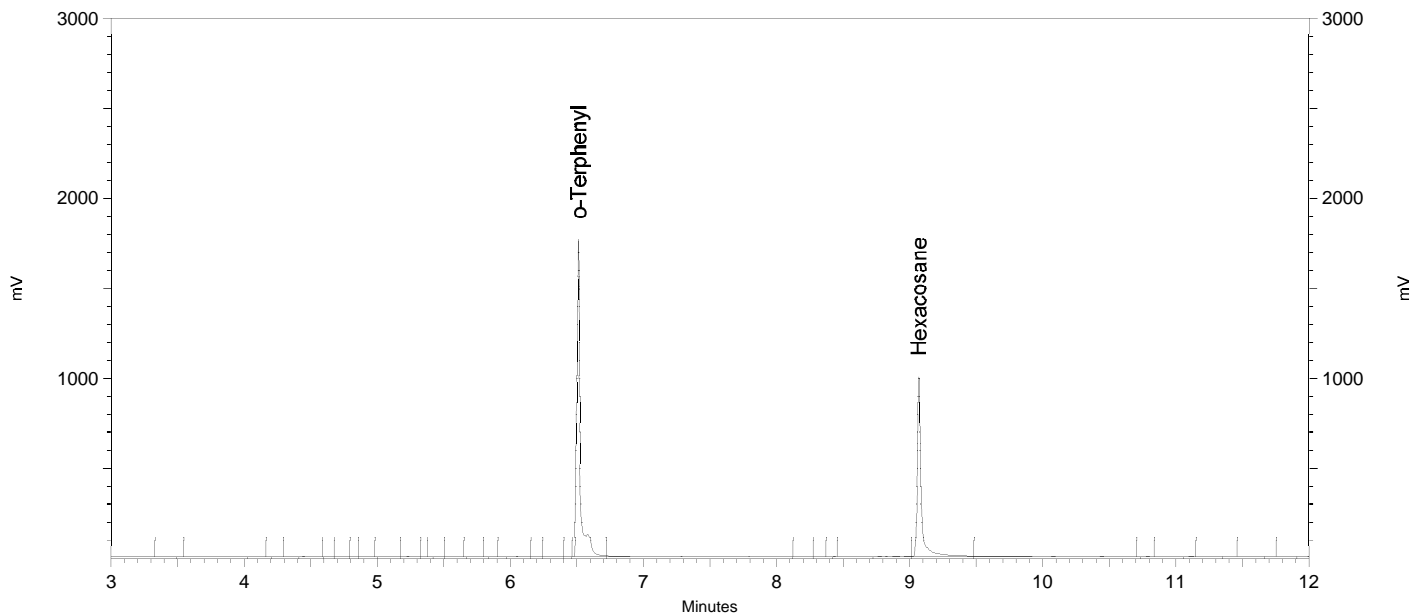
Sample Name: 303845-004sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a024.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 6:17:45 PM
 Analysis Date: 10/11/2018 12:50:11 PM
 Instrument: GC27 (Offline)A Vial: 24 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.515	24066067	43.569
Hexacosane	9.067	15615996	33.905



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a024.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.462  8.123  0
Yes Split Peak          6.721  0      0
Yes Manual Peak         8.724  10.705 0
Yes Split Peak          9.014  0      0
  
```

Yes Split Peak

9.481 0 0

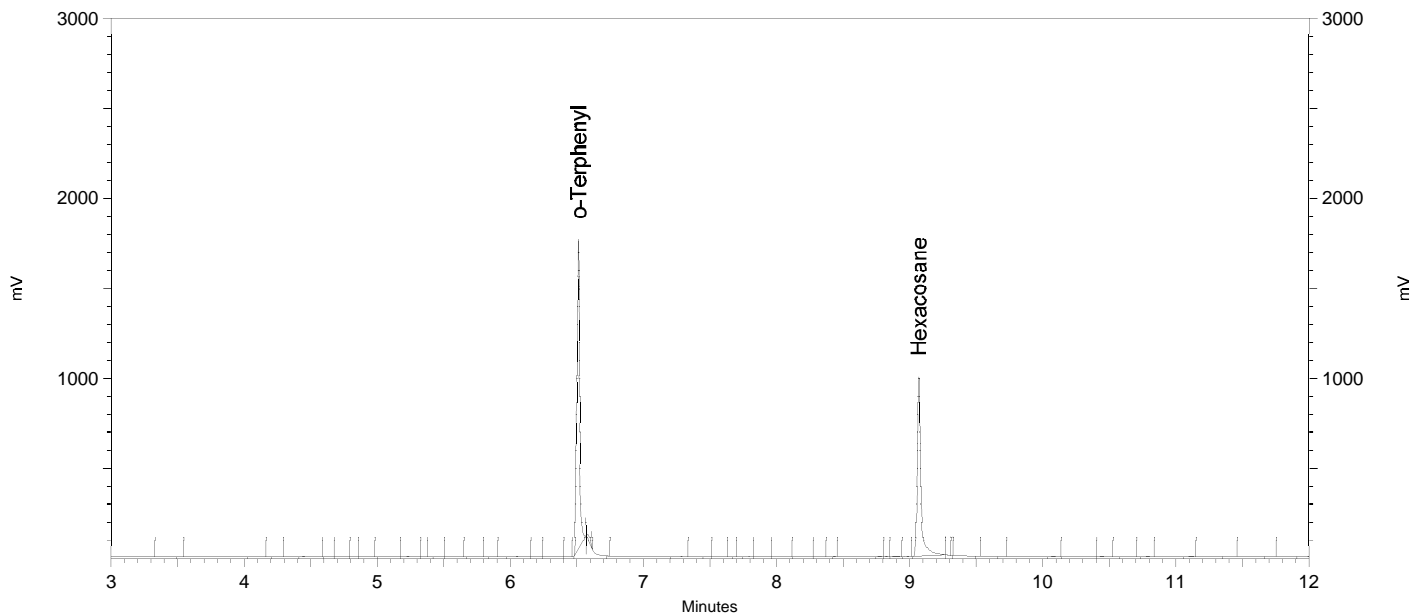
Sample Name: 303845-004sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a024.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 6:17:45 PM
 Analysis Date: 10/11/2018 12:48:38 PM
 Instrument: GC27 (Offline)A Vial: 24 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.515	18851453	34.128
Hexacosane	9.067	14355111	31.167



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a024.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC26A Lab ID : 303845-004 Client ID : DUP10032018-01
 Seqnum : 868415085020 Matrix : Water Acct : TRC-SF (MJD)
 File : 288a020 Batch : 264364 Time : 15-OCT-2018 17:03
 IDF : 1.0 Raw Units : mg/L Units : ug/L

510.00 mL --> 2.5 ml = 0.004902 ml/ml PDF

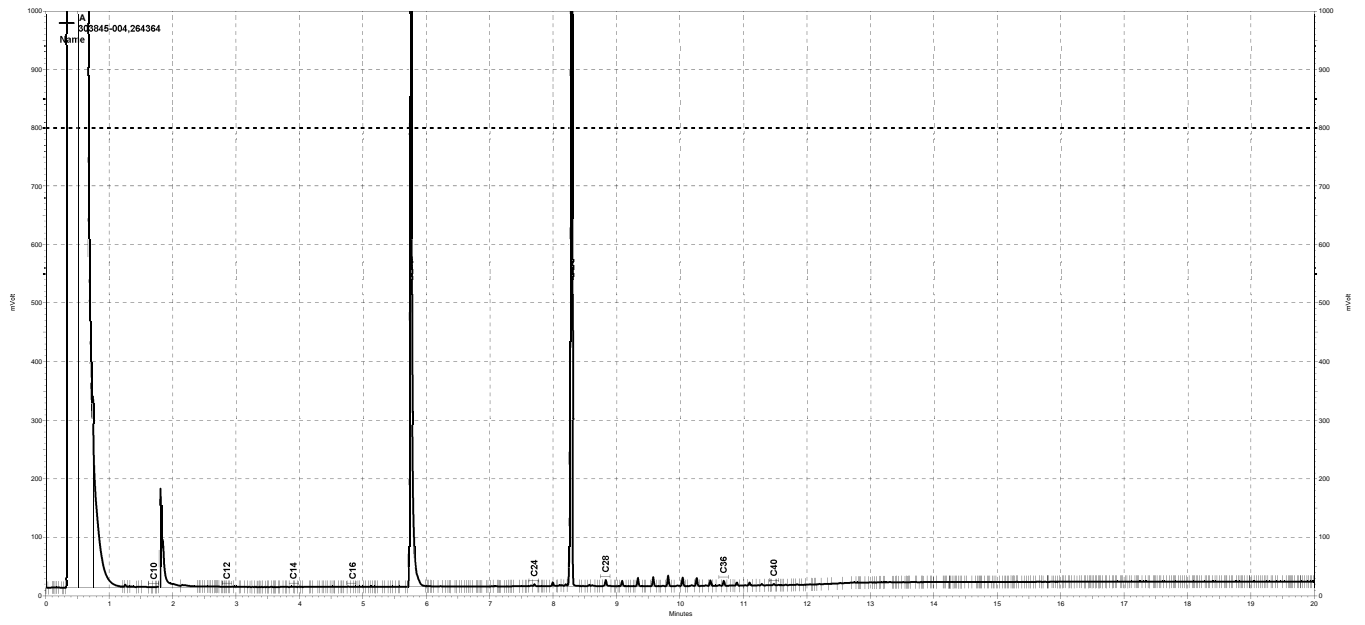
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	868380491001	11.23	55	49		Y Z u
Motor Oil C24-C36	868409292001	5.667	ND	290		u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	868397771001	51.68	245.1	253.3	103	58-123	u

WA1 10/15/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/16/18 Reviewer: EAH Date: 10/16/18

Y=does not resemble standard Z=single peak u=use



\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a020, A

Sample Name: 303845-004,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
 Run Date: 10/15/2018 5:03:51 PM
 Analysis Date: 10/15/2018 6:08:11 PM
 Instrument: GC26A Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	595286	12.799
DSL:10-14	582763	26.786
DSL:10-22	4122657	74.561
DSL:10-24	4139692	72.762
DSL:10-28	7301004	126.680
DSL:12-24	3591501	74.105
DSL:12-28	6752813	137.237
DSL:14-24	3560111	96.603
DSL:16-24	3546390	135.315
MO:22-32	3267958	74.975
MO:24-36	3341882	76.824
MO:28-40	225387	8.557
BUNKC:10-40	7507584	239.426
BUNKC:12-40	6959393	227.894

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

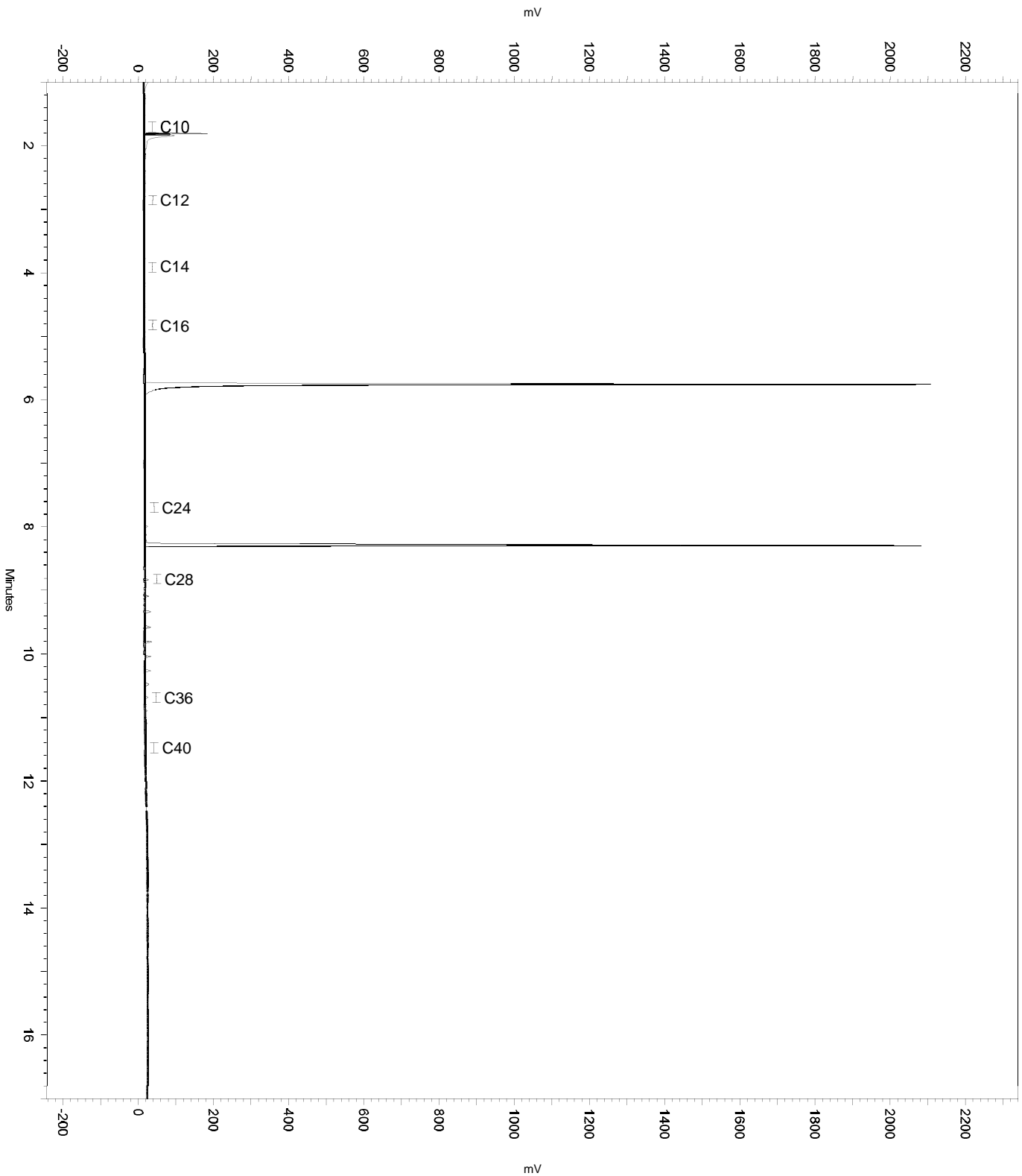
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	8.063	8.422	0

Sample Name: 303845-004,264364
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a020
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
Run Date: 10/15/2018 5:03:51 PM
Analysis Date: 10/15/2018 6:08:11 PM
Instrument: GC26A Vial: 20 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

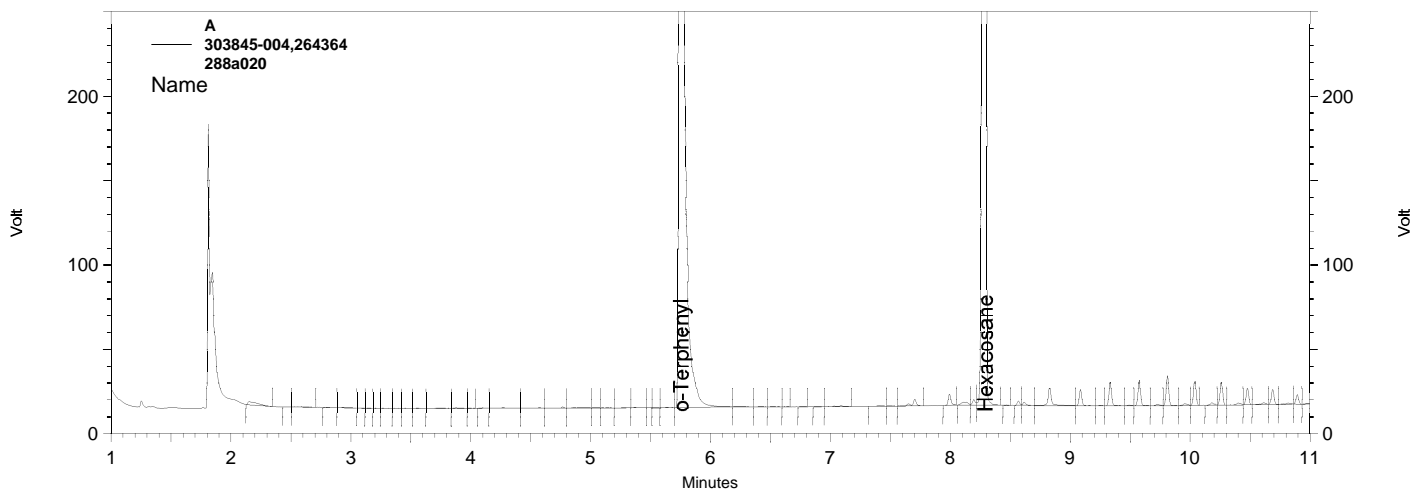


Sample Name: 303845-004,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 5:03:51 PM
 Analysis Date: 10/15/2018 6:05:49 PM
 Instrument: GC26A Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.758	3500499	51.676
Hexacosane	8.295	3095370	56.443



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283\2018\288a020, 264364

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

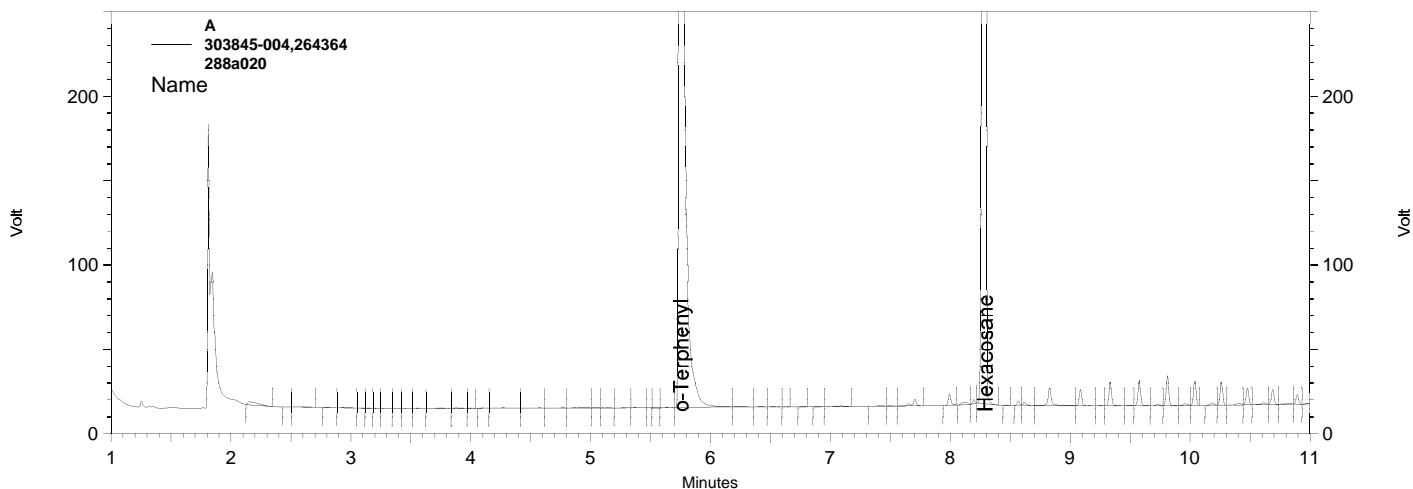
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a020				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	8.063	8.422	0

Sample Name: 303845-004,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 5:03:51 PM
 Analysis Date: 10/15/2018 6:05:36 PM
 Instrument: GC26A Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.758	3500499	51.676
Hexacosane	8.295	3089115	56.328



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283\2018\288a020\303845-004,264364

 << General Method Parameters >>-----

No items selected for this section

 << A >>-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a020				
None				

QC Raw Data

ENTHALPY BLANK USER REPORT FOR 303845 GCSV Water
EPA 8015B

Inst : GC14B Lab ID : QC951074
 Seqnum : 228407852008.4 Matrix : Water
 File : 283_008 Batch : 264364 Time : 10-OCT-2018 11:04
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

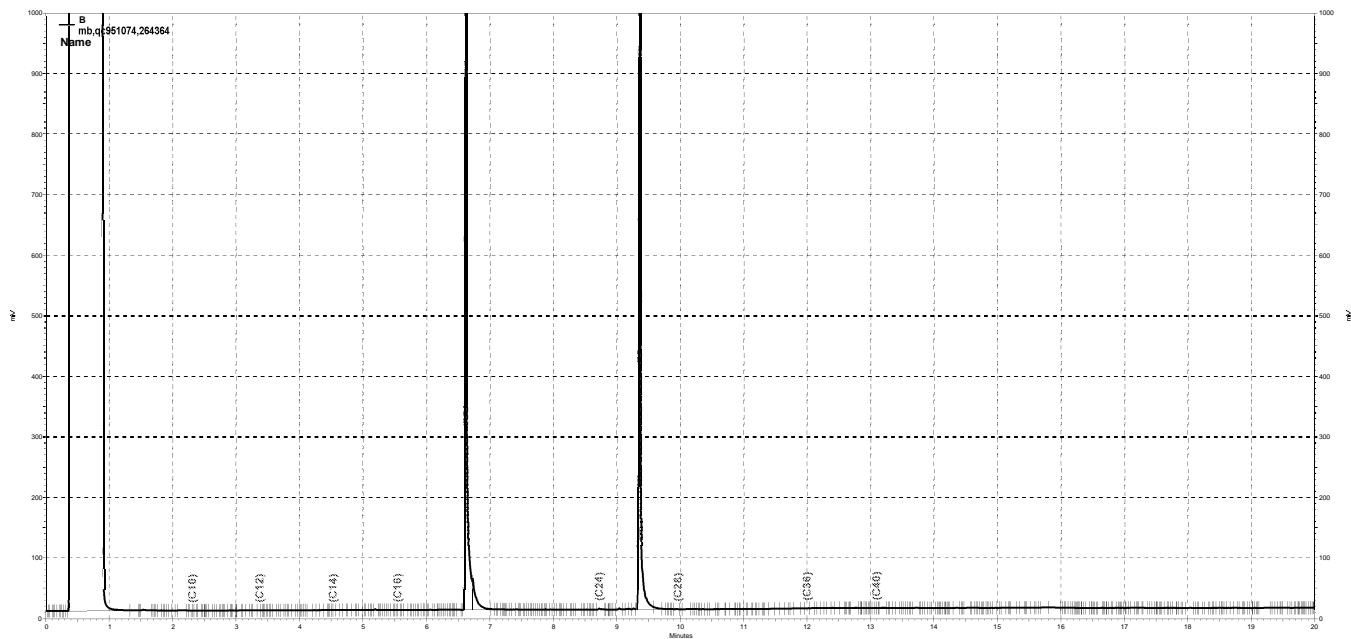
Analyte	Ch	Cal	Raw	Result	RL	Flags
Diesel C10-C24	B	228163090002	2.994	ND	50	u
Motor Oil C24-C36	B	228223554001	3.304	ND	300	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	228263897001	47.52	250.0	237.6	95	58-123	u

CB1 10/10/18 : Corrected automatically drawn baseline. [general version]

Analyst: CB1 Date: 10/16/18 Reviewer: EAH Date: 10/16/18

u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b008, B

Sample Name: mb,qc951074,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
 Run Date: 10/10/2018 11:04:00 AM
 Analysis Date: 10/10/2018 12:29:34 PM
 Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	63046	1.392
DSL:10-14	37228	0.000
DSL:10-22	2754927	62.705
DSL:10-24	2763766	61.417
DSL:10-28	5052327	110.953
DSL:12-24	2744928	70.920
DSL:12-28	5033489	128.273
DSL:14-24	2728850	0.000
DSL:16-24	2703525	132.171
MO:22-32	2315690	80.152
MO:24-36	2340948	78.783
MO:28-40	142746	7.526
BUNKC:10-40	5192335	253.042
BUNKC:12-40	5173497	259.579

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

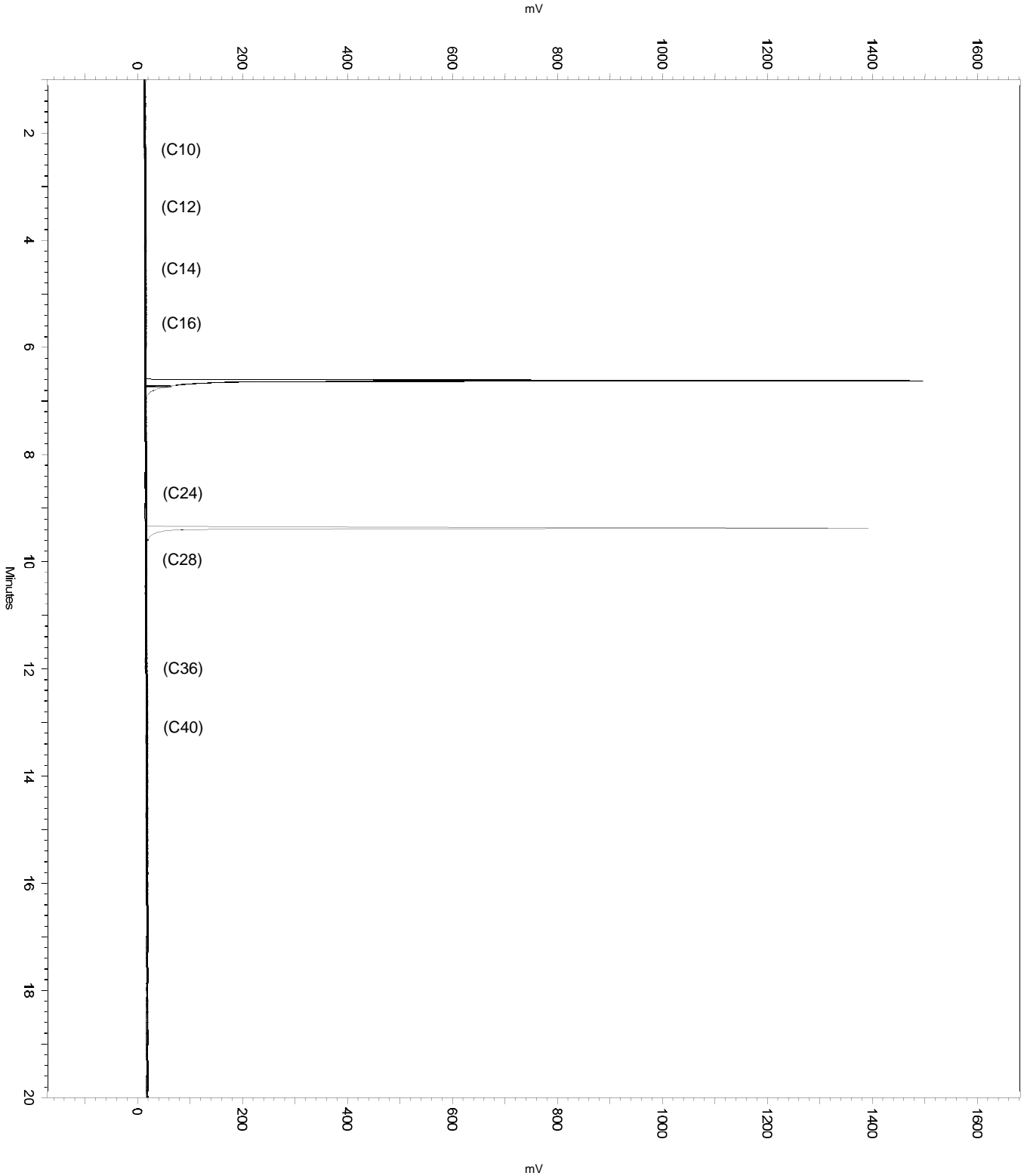
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.579	8.493	0
No	Split Peak	6.948	0	0
No	Manual Peak	8.997	10.381	0
No	Split Peak	9.31	0	0
No	Split Peak	9.563	0	0

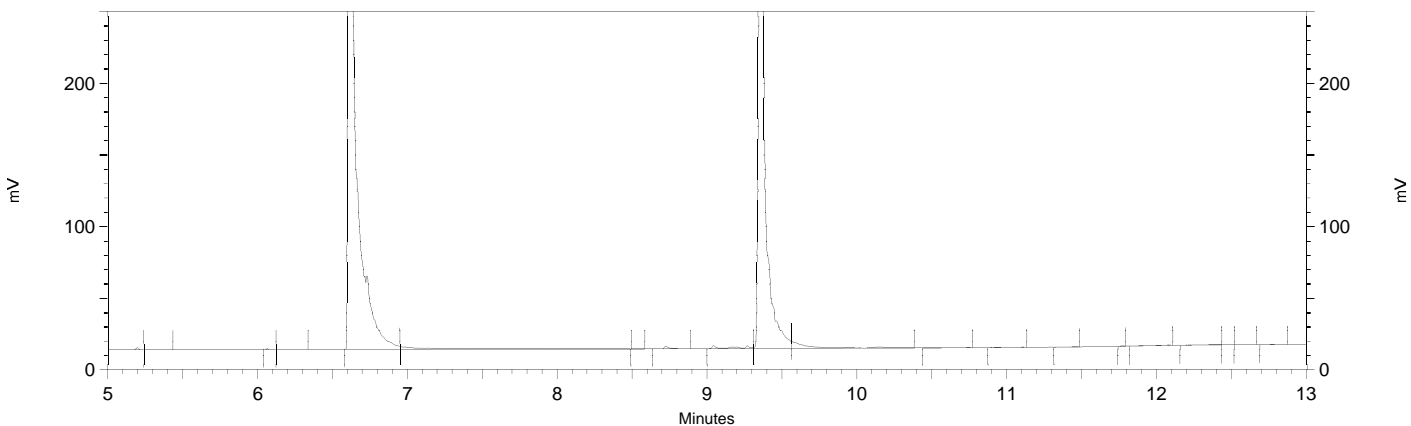
Sample Name: mb,qc951074,264364
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b008
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
Run Date: 10/10/2018 11:04:00 AM
Analysis Date: 10/10/2018 12:29:34 PM
Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **mb,qc951074,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 11:04:00 AM
 Analysis Date: 10/10/2018 12:27:16 PM
 Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.625	2629049	47.522
Hexacosane	9.365	2242775	44.914



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

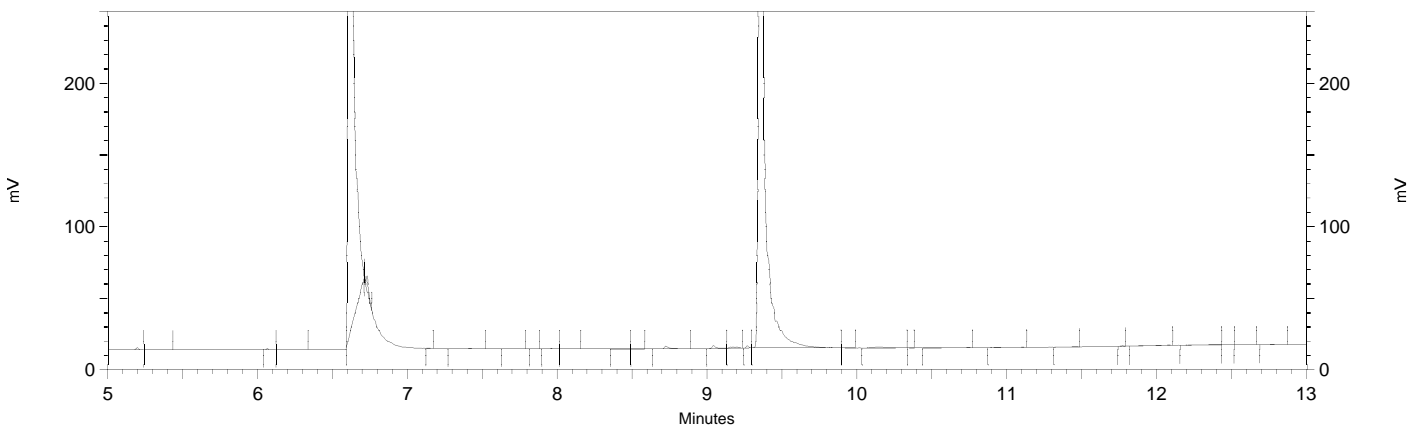
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.579	8.493	0
Yes	Split Peak	6.948	0	0
Yes	Manual Peak	8.997	10.381	0
Yes	Split Peak	9.31	0	0
Yes	Split Peak	9.563	0	0

Sample Name: **mb,qc951074,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 11:04:00 AM
 Analysis Date: 10/10/2018 12:26:15 PM
 Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.625	2217605	40.085
Hexacosane	9.365	2256992	45.198



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b008
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY BLANK USER REPORT FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Lab ID : QC951074 (S)
 Seqnum : 978407882014.6 Matrix : Water
 File : 283a014 Batch : 264364 Time : 10-OCT-2018 14:06
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

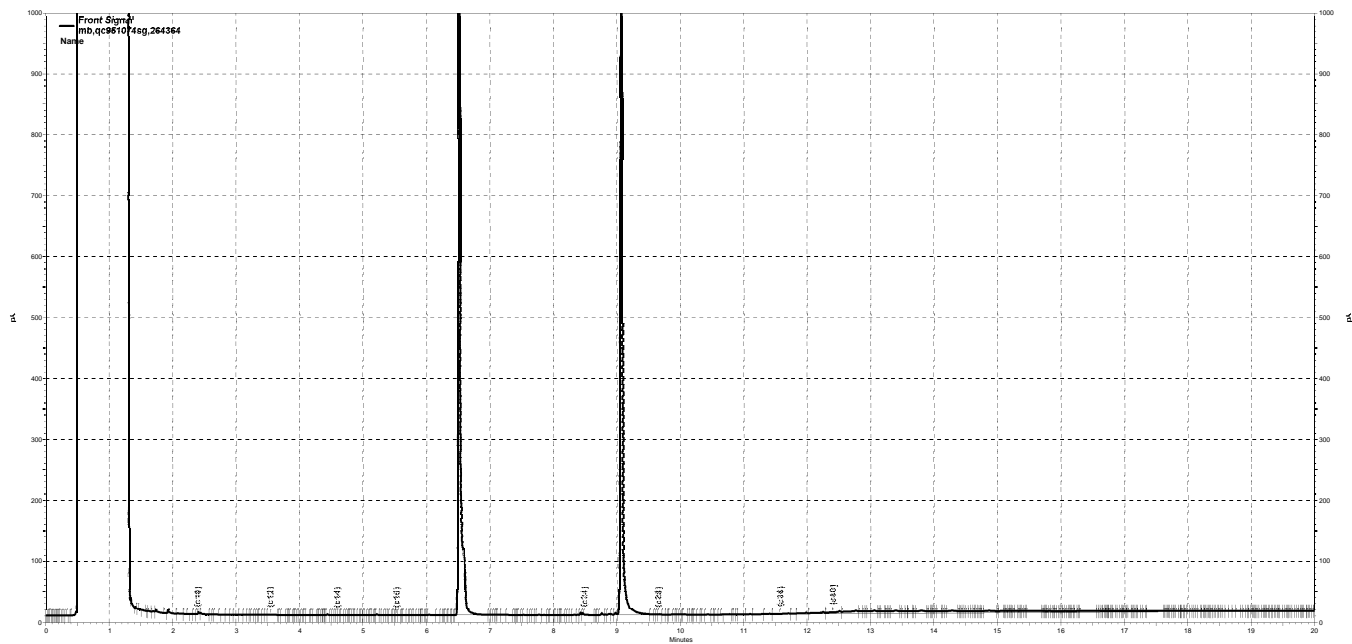
Analyte	Cal	Raw	Result	RL	Flags
Diesel C10-C24	978335887001	0.9216	ND	50	u
Motor Oil C24-C36	978335887002	1.367	ND	300	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	978348840001	54.56	250.0	272.8	109	58-123	u

CB1 10/11/18 : Corrected automatically drawn baseline. [general version]

WA1: 10/12/18 * EAH: 10/12/18 * CB1: 10/16/18

u=use



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a014.dat, Front Signal

Sample Name: mb,qc951074sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a014.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 2:06:16 PM
 Analysis Date: 10/10/2018 3:02:15 PM
 Instrument: GC27 (Offline)A Vial: 14 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		138217	0.292
DSL:10-14		106681	0.600
DSL:10-22		30482541	67.278
DSL:10-24		30567723	65.680
DSL:10-28		53171298	112.697
DSL:12-24		30491939	77.868
DSL:12-28		53095514	133.410
DSL:14-24		30463119	100.491
DSL:16-24		30431012	145.651
MO:22-32		22777954	71.207
MO:24-36		22803144	70.493
MO:28-40		574816	2.943
BUNKC:10-40		53714398	265.820
BUNKC:12-40		53638614	273.808
?		0	0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

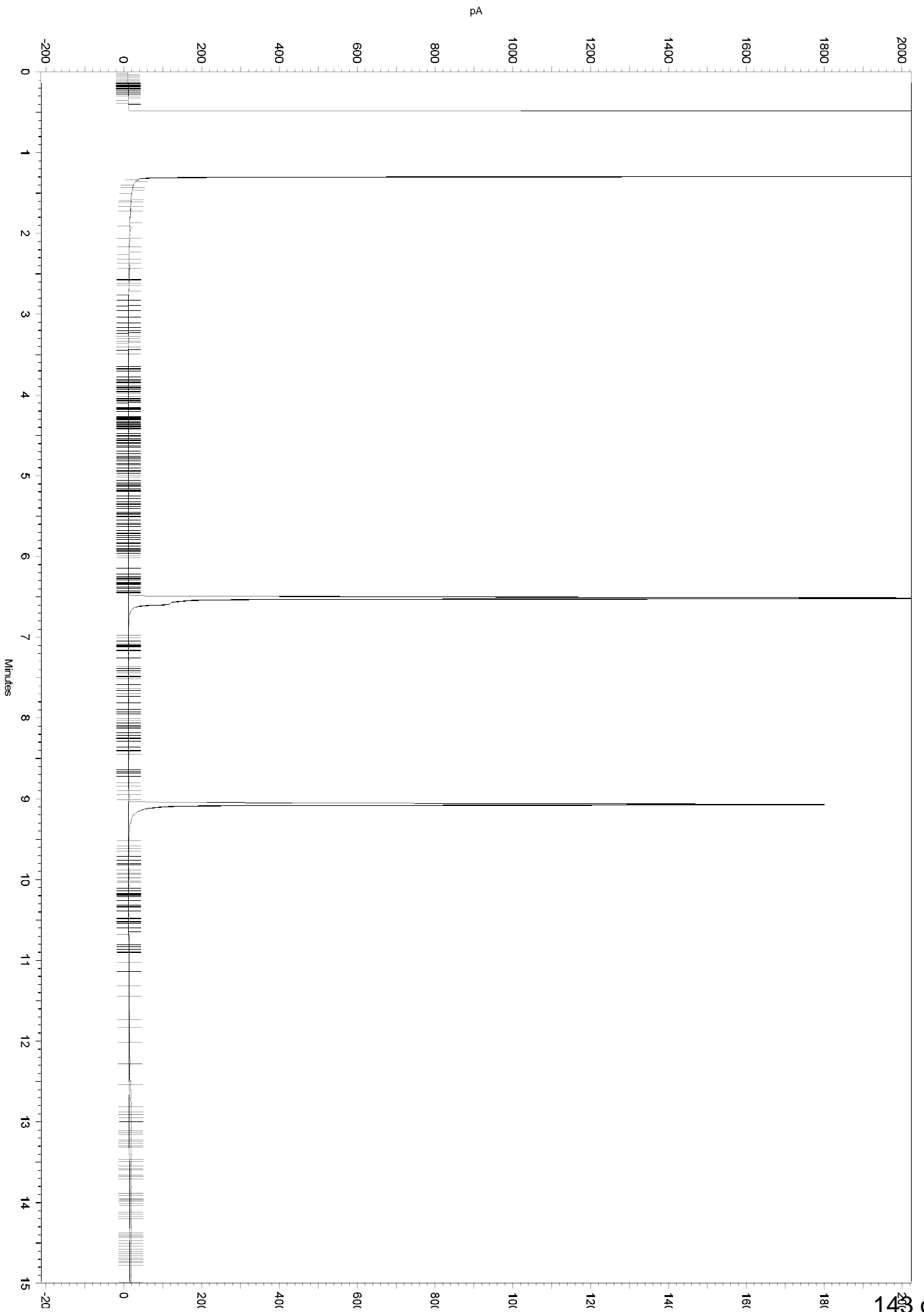
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0     0
Yes Threshold            0       0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a014.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
No Manual Peak          6.454  6.832   0
No Manual Baseline      8.717  9.627   0
  
```



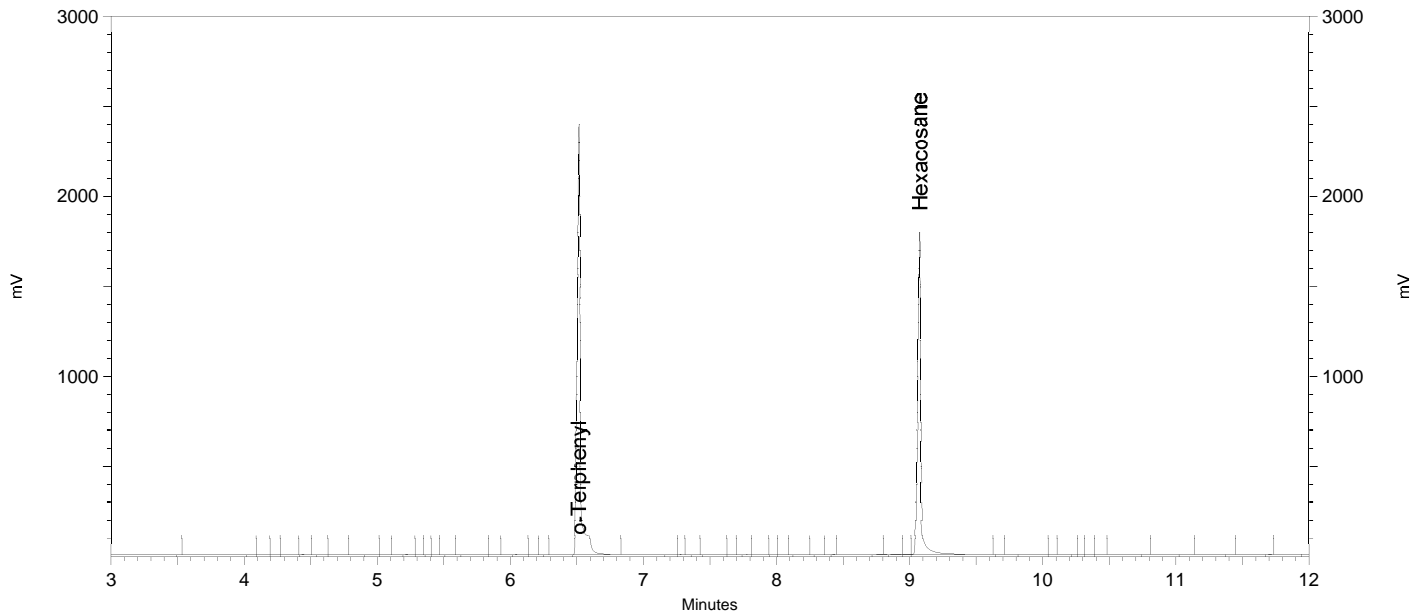
Sample Name: mb,qc951074sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a014.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 2:06:16 PM
 Analysis Date: 10/10/2018 3:01:04 PM
 Instrument: GC27 (Offline)A Vial: 14 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.518	30138787	54.562
Hexacosane	9.073	22360874	48.549



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a014.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.454  6.832   0
Yes Manual Baseline     8.717  9.627   0
  
```

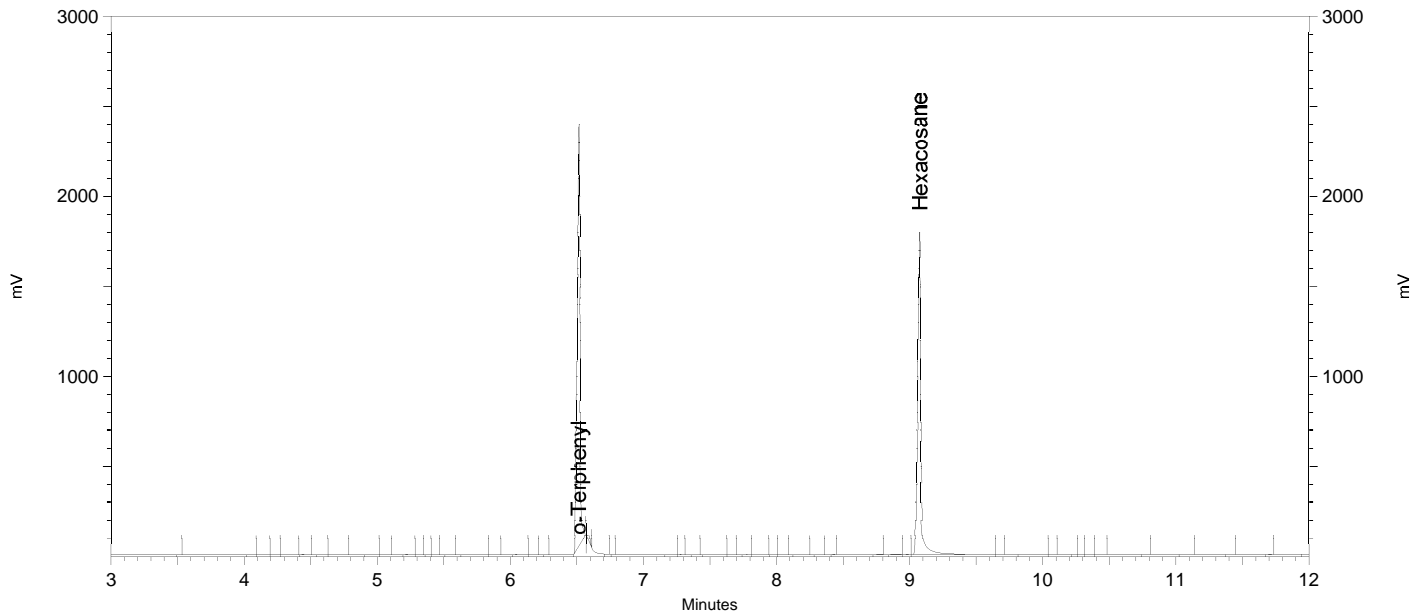

Sample Name: mb,qc951074sg,264364
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a014.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 2:06:16 PM
 Analysis Date: 10/10/2018 3:00:50 PM
 Instrument: GC27 (Offline)A Vial: 14 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.518	25428262	46.035
Hexacosane	9.073	22228585	48.262



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a014.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```


ENTHALPY SPIKE USER REPORT FOR 303845 GCSV Water
EPA 8015B

Type : BS
 Inst : GC14B
 Seqnum : 228407852009.4
 File : 283_009
 IDF : 1.0
 Lab ID : QC951075
 Matrix : Water
 Batch : 264364
 Time : 10-OCT-2018 11:31
 Cal : 228163090002
 Cal : 228263897001
 Units : ug/L

Type : BSD
 Inst : GC14B
 Seqnum : 228407852010.4
 File : 283_010
 IDF : 1.0
 Lab ID : QC951076
 Matrix : Water
 Batch : 264364
 Time : 10-OCT-2018 12:00
 Cal : 228163090002
 Cal : 228263897001

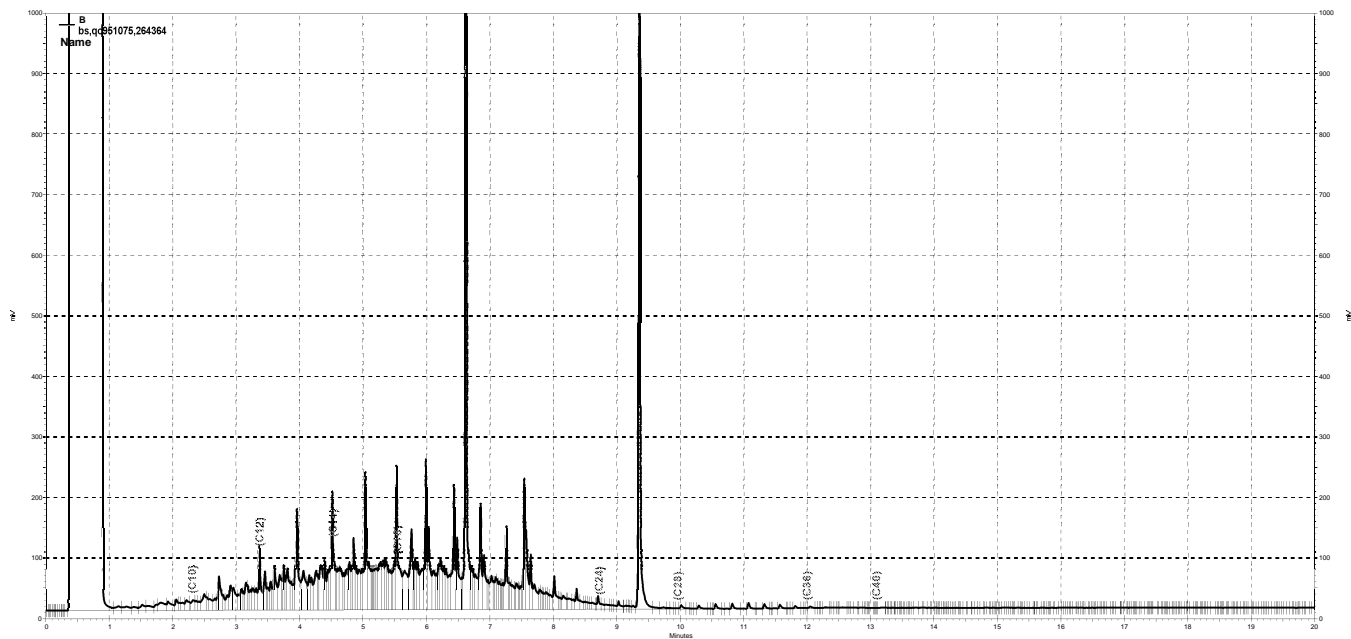
BS: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF
 BSD: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

Analyte	Spiked	BS		Ch	%Rec	BSD		Ch	%Rec	Limits	RPD	Lim	Flags
		Raw	Result			Raw	Result						
Diesel C10-C24	2500	438.6	2193	B	88	414.7	2073	B	83	56-120	6	28	u
o-Terphenyl	250.0	46.64	233.2	B	93	43.54	217.7	B	87	58-123			u

CB1 10/10/18 : Corrected automatically drawn baseline for spike & dup. [general version]

Analyst: CB1 Date: 10/16/18 Reviewer: EAH Date: 10/16/18

u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b009, B

Sample Name: **bs,qc951075,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
 Run Date: 10/10/2018 11:31:53 AM
 Analysis Date: 10/10/2018 12:29:56 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	10524003	232.441
DSL:10-14	5989146	0.000
DSL:10-22	21746224	494.967
DSL:10-24	22317964	495.958
DSL:10-28	24814982	544.957
DSL:12-24	20651136	533.558
DSL:12-28	23148154	589.905
DSL:14-24	17011236	0.000
DSL:16-24	12574466	614.743
MO:22-32	3339535	115.590
MO:24-36	2741303	92.257
MO:28-40	257164	13.559
BUNKC:10-40	25047896	1220.676
BUNKC:12-40	23381068	1173.140

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

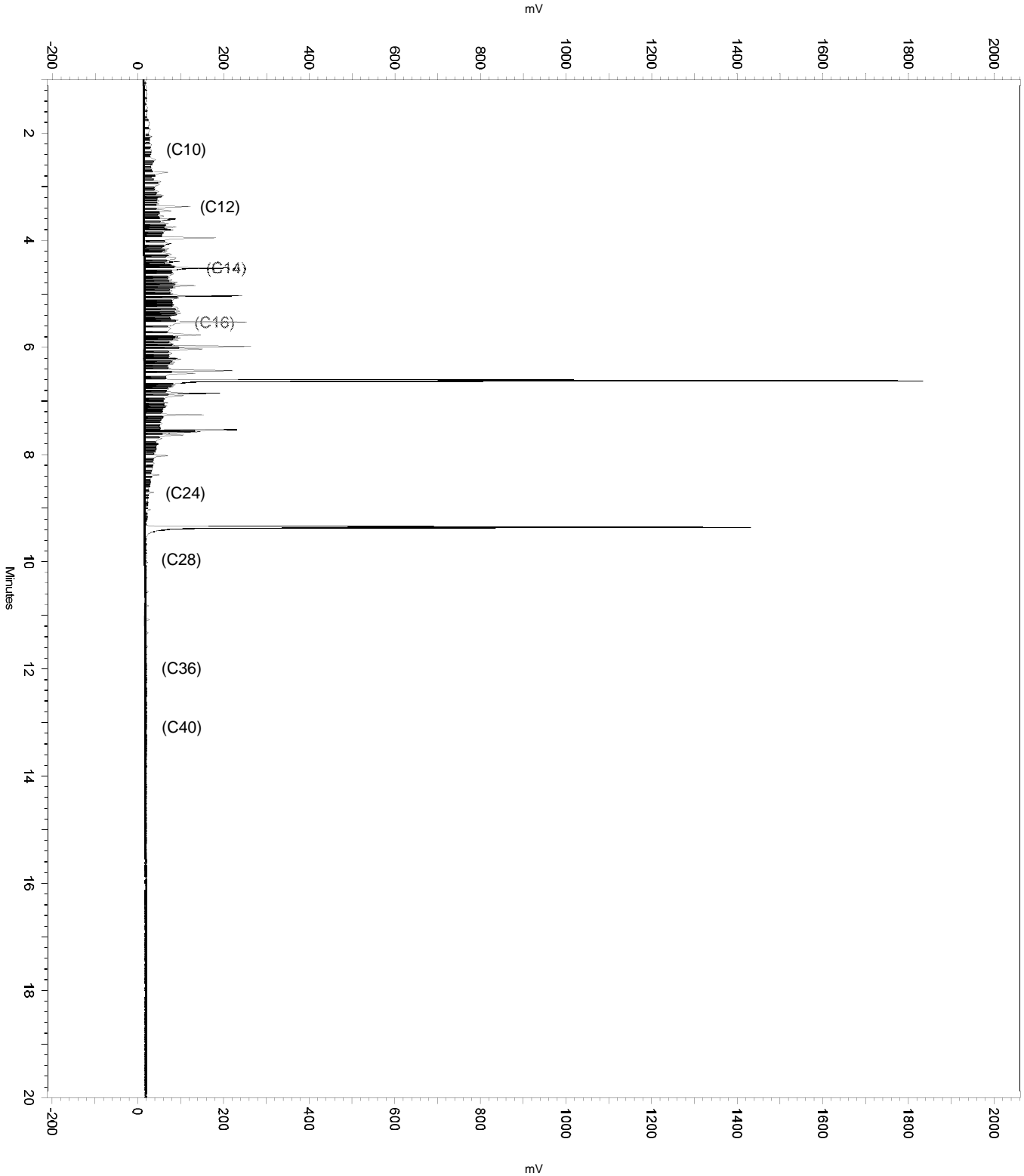
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.546	6.984	0
No	Split Peak	6.579	0	0
No	Split Peak	6.686	0	0
No	Split Peak	9.568	0	0

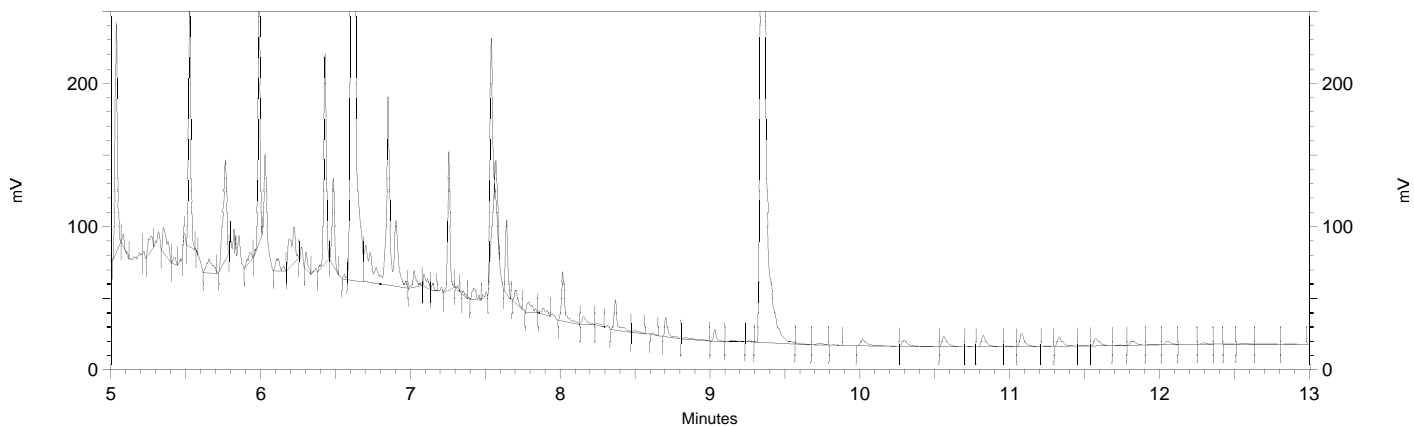
Sample Name: **bs,qc951075,264364**
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b009
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
Run Date: 10/10/2018 11:31:53 AM
Analysis Date: 10/10/2018 12:29:56 PM
Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **bs,qc951075,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 11:31:53 AM
 Analysis Date: 10/10/2018 12:28:07 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.625	2580178	46.639
Hexacosane	9.360	2219589	44.449



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

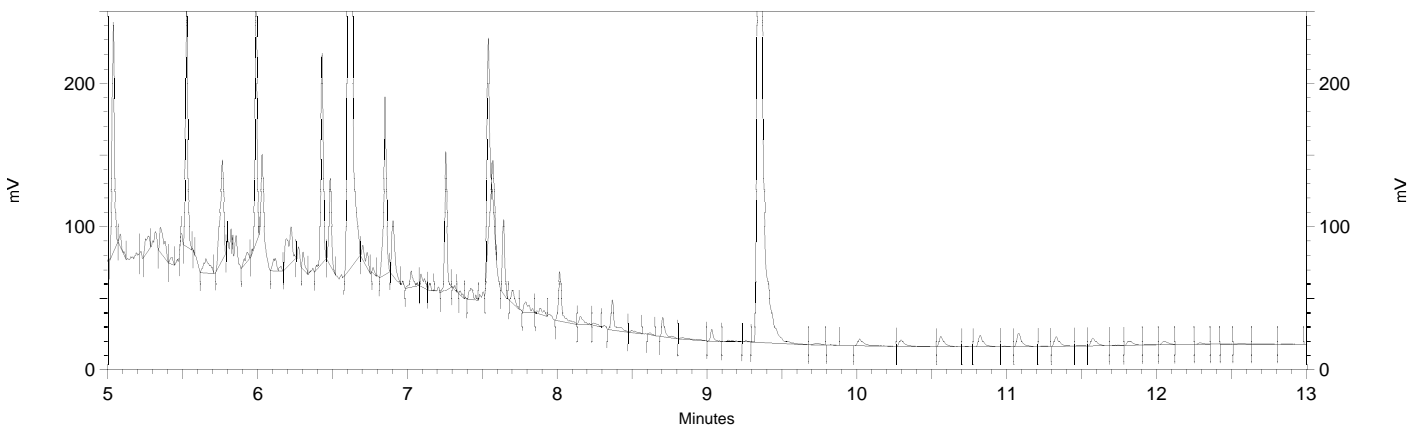
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.546	6.984	0
Yes	Split Peak	6.579	0	0
Yes	Split Peak	6.686	0	0
Yes	Split Peak	9.568	0	0

Sample Name: **bs,qc951075,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 11:31:53 AM
 Analysis Date: 10/10/2018 12:27:23 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.625	2514199	45.446
Hexacosane	9.360	2221641	44.490



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

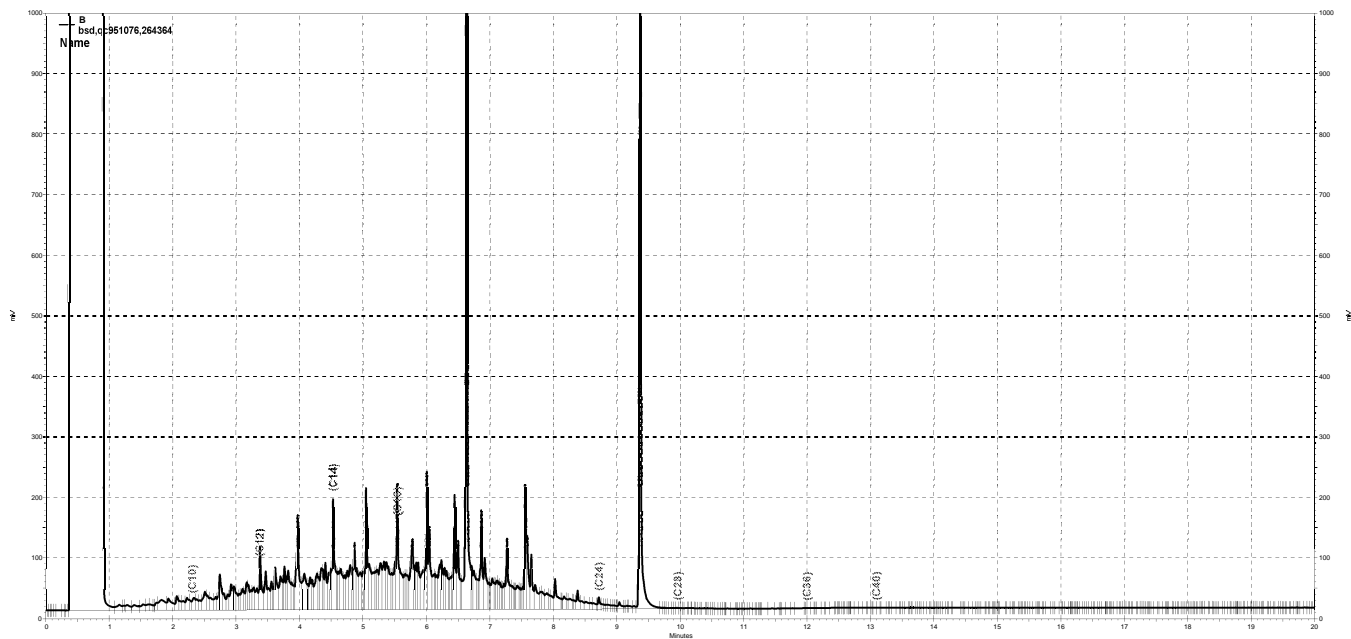
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0   0.2
Yes Threshold            0       0  100
Yes Integration Off      0       2    0
Yes Valley to Valley     0      20    0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b009
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b010, B

Sample Name: **bsd,qc951076,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
 Run Date: 10/10/2018 12:00:05 PM
 Analysis Date: 10/10/2018 12:30:29 PM
 Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	10139544	223.950
DSL:10-14	5897684	0.000
DSL:10-22	20550520	467.751
DSL:10-24	21069466	468.213
DSL:10-28	23389024	513.642
DSL:12-24	19290954	498.416
DSL:12-28	21610512	550.720
DSL:14-24	15930419	0.000
DSL:16-24	11713565	572.655
MO:22-32	3103732	107.428
MO:24-36	2423413	81.558
MO:28-40	75247	3.967
BUNKC:10-40	23454816	1143.040
BUNKC:12-40	21676304	1087.604

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

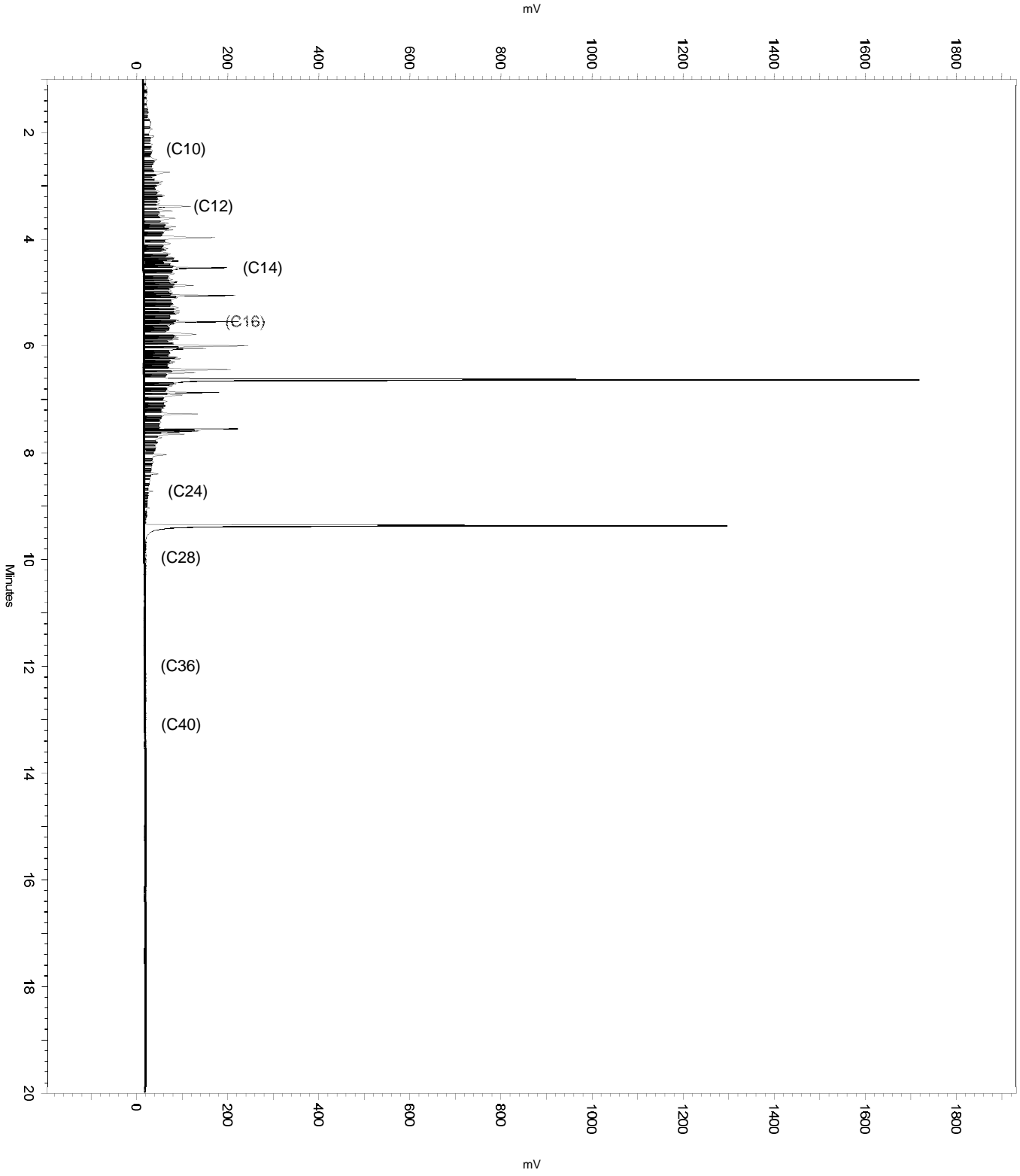
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	1.083	10.875	0
No	Manual Peak	6.56	6.998	0
No	Split Peak	6.596	0	0
No	Split Peak	6.694	0	0
No	Split Peak	9.317	0	0
No	Split Peak	9.623	0	0
No	Move BL Stop	9.902	9.721	0

Sample Name: bsd,qc951076,264364
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b010
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
Run Date: 10/10/2018 12:00:05 PM
Analysis Date: 10/10/2018 12:30:29 PM
Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **bsd,qc951076,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
 Run Date: 10/10/2018 12:00:05 PM
 Analysis Date: 10/10/2018 12:30:17 PM
 Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	4943112	109.177
DSL:10-14	2815026	0.000
DSL:10-22	10046085	228.659
DSL:10-24	10130999	225.135
DSL:10-28	12219303	268.346
DSL:12-24	9468050	244.624
DSL:12-28	11556354	294.501
DSL:14-24	7776055	0.000
DSL:16-24	5606213	274.078
MO:22-32	2236387	77.407
MO:24-36	2123436	71.463
MO:28-40	47948	2.528
BUNKC:10-40	12266103	597.773
BUNKC:12-40	11603154	582.186

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

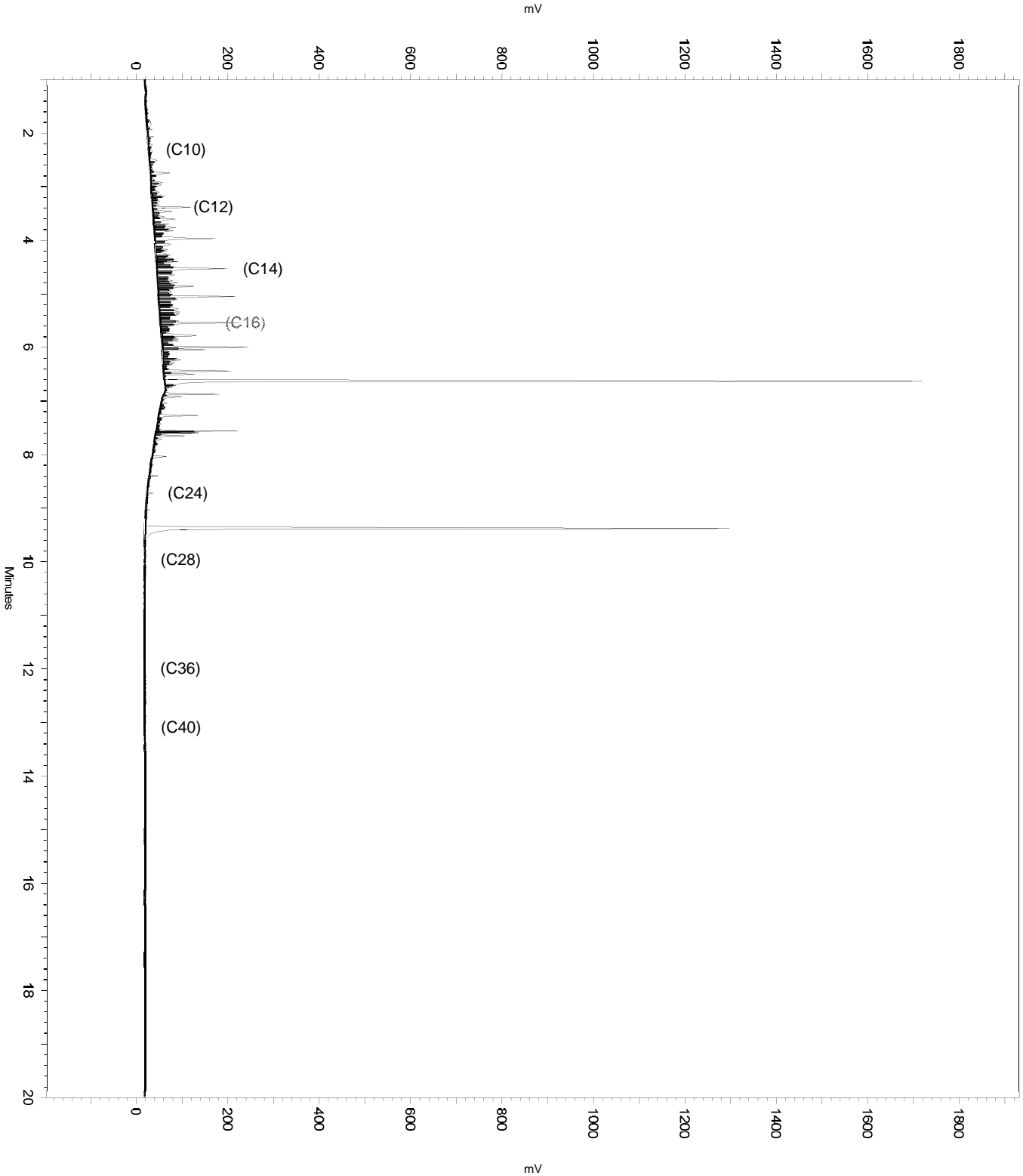
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.56	6.998	0
No	Split Peak	6.596	0	0
No	Split Peak	6.694	0	0
No	Split Peak	9.317	0	0
No	Split Peak	9.623	0	0
No	Move BL Stop	9.902	9.721	0

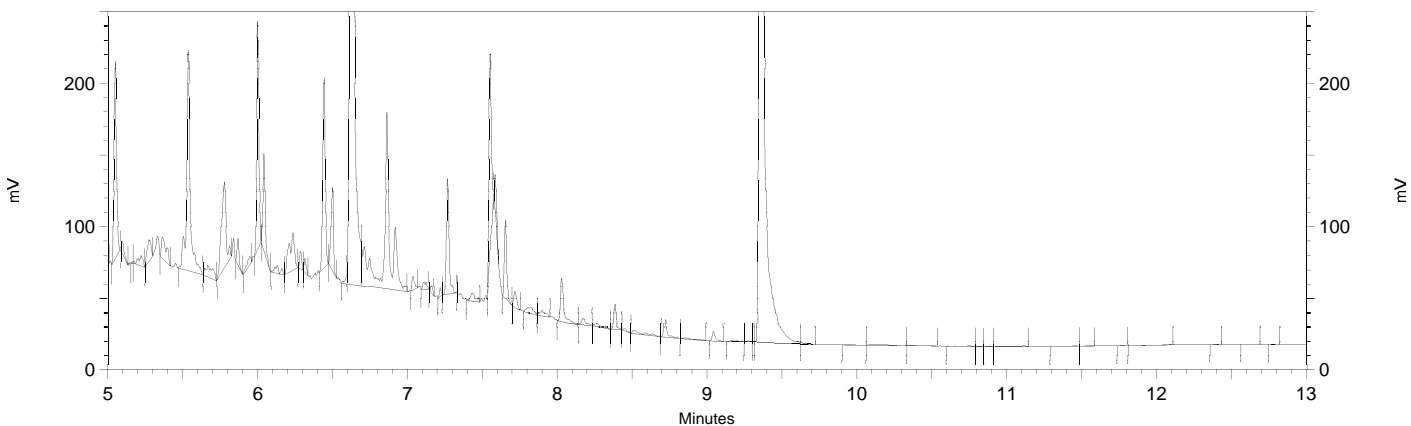
Sample Name: bsd,qc951076,264364
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b010
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
Run Date: 10/10/2018 12:00:05 PM
Analysis Date: 10/10/2018 12:30:17 PM
Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **bsd,qc951076,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 12:00:05 PM
 Analysis Date: 10/10/2018 12:29:05 PM
 Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.637	2408621	43.538
Hexacosane	9.370	2060907	41.272



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

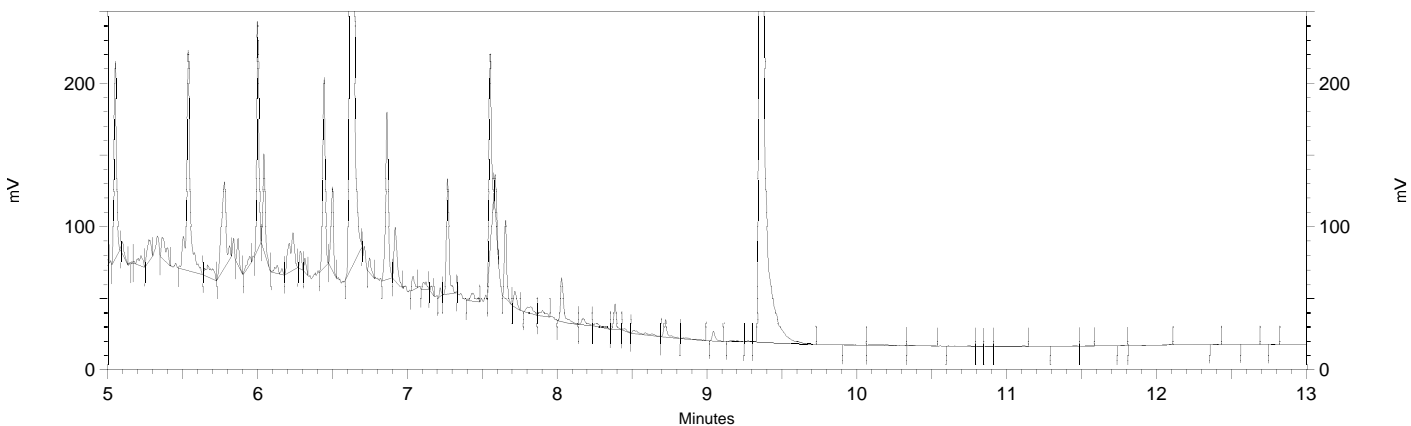
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.56	6.998	0
Yes	Split Peak	6.596	0	0
Yes	Split Peak	6.694	0	0
Yes	Split Peak	9.317	0	0
Yes	Split Peak	9.623	0	0
Yes	Move BL Stop	9.902	9.721	0

Sample Name: **bsd,qc951076,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 12:00:05 PM
 Analysis Date: 10/10/2018 12:28:14 PM
 Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.637	2321154	41.957
Hexacosane	9.370	2063652	41.327



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SPIKE USER REPORT FOR 303845 GCSV Water
EPA 8015B

Type : BS	Type : BSD
Inst : GC27A	Inst : GC27A
Seqnum : 978407882015.5	Seqnum : 978407882016.5
File : 283a015	File : 283a016
IDF : 1.0	IDF : 1.0
Lab ID : QC951075 (S)	Lab ID : QC951076 (S)
Matrix : Water	Matrix : Water
Batch : 264364	Batch : 264364
Time : 10-OCT-2018 14:31	Time : 10-OCT-2018 14:56
Cal : 978335887001	Cal : 978335887001
Cal : 978348840001	Cal : 978348840001
Units : ug/L	

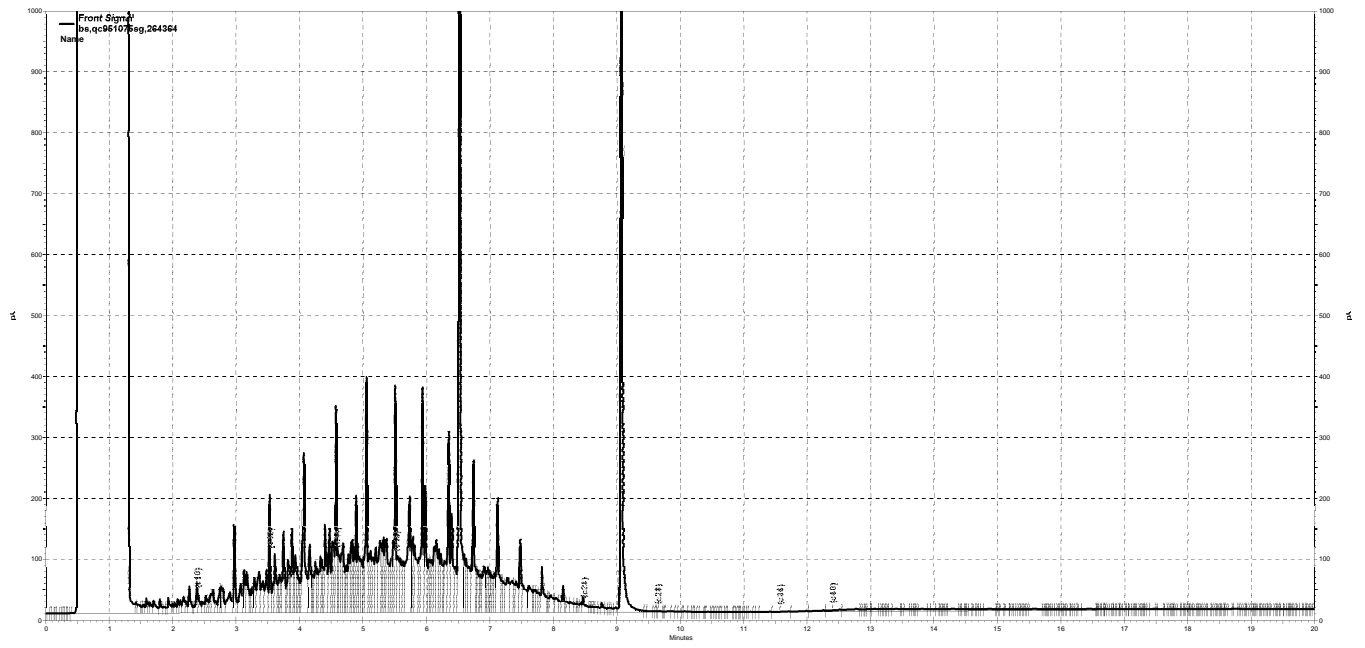
BS: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF
 BSD: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

Analyte	Spiked	BS Raw	BS Result	%Rec	BSD Raw	BSD Result	%Rec	Limits	RPD	Lim	Flags
Diesel C10-C24	2500	423.1	2116	85	361.5	1808	72	56-120	16	28	u
o-Terphenyl	250.0	50.29	251.4	101	41.96	209.8	84	58-123			u

CB1 10/11/18 : Corrected automatically drawn baseline for spike & dup. [general version]

WA1: 10/12/18 * EAH: 10/12/18 * CB1: 10/16/18

u=use



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a015.dat, Front Signal

Sample Name: **bs,qc951075sg,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a015.dat
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2018\283.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\TEH_281.met**
 Run Date: **10/10/2018 2:31:36 PM**
 Analysis Date: **10/10/2018 3:02:39 PM**
 Instrument: **GC27 (Offline)A** Vial: 15 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		109836216	231.883
DSL:10-14		63076632	354.826
DSL:10-22		219218037	483.836
DSL:10-24		224702278	482.811
DSL:10-28		246664883	522.810
DSL:12-24		207330090	529.465
DSL:12-28		229292695	576.132
DSL:14-24		168751829	556.672
DSL:16-24		123749203	592.296
MO:22-32		30143700	94.233
MO:24-36		23192423	71.697
MO:28-40		639354	3.273
BUNKC:10-40		247214214	1223.406
BUNKC:12-40		229842026	1173.271

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

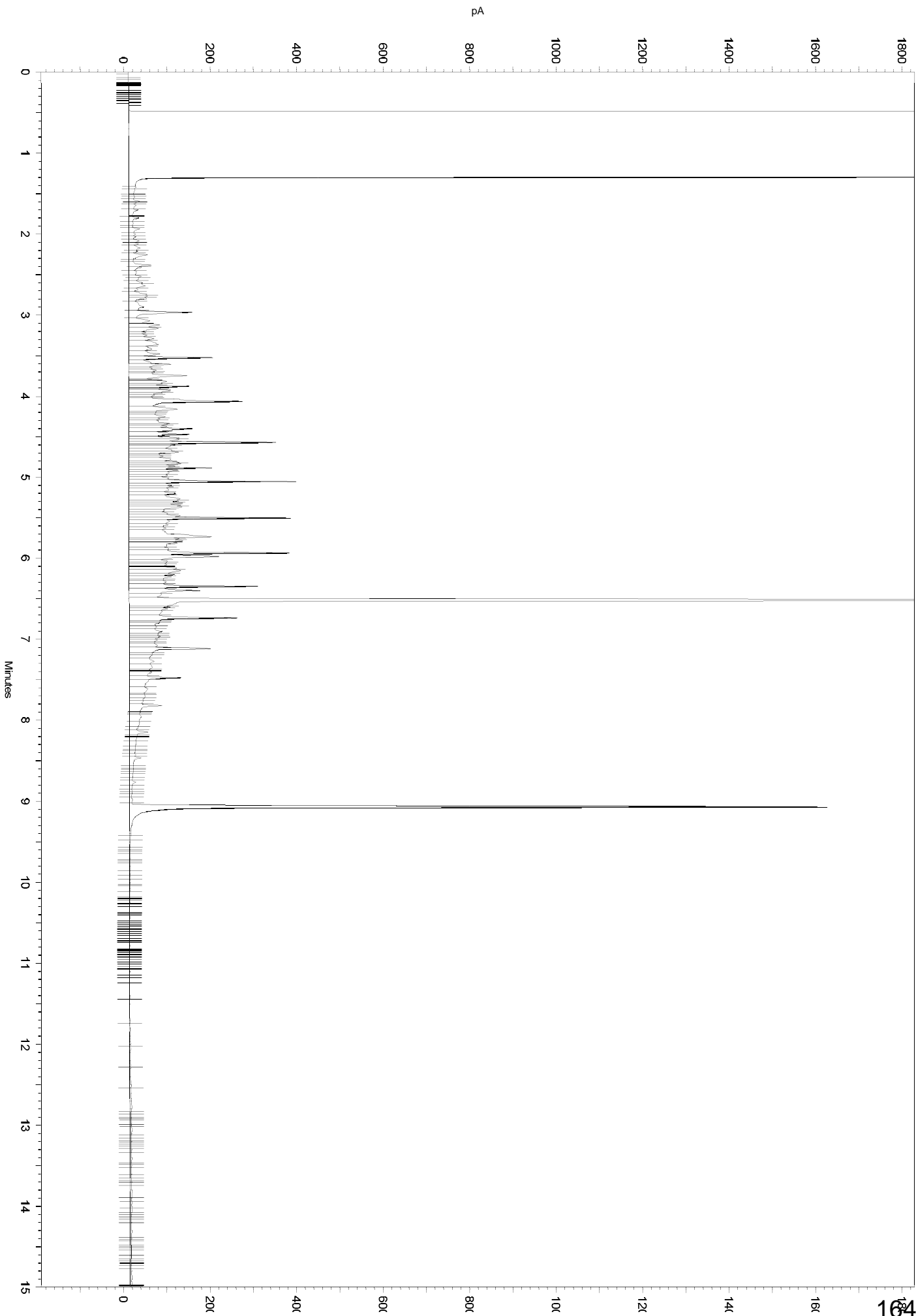
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a015.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.477	6.815	0
No	Split Peak	6.543	0	0
No	Reassign Peak	6.554	6.526	0
No	Manual Baseline	8.85	9.491	0
Yes	Move BL Start	1.778	0.348	0



Sample Name: **bs,qc951075sg,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a015.dat
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2018\283.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\TEH_281.met**
 Run Date: **10/10/2018 2:31:36 PM**
 Analysis Date: **10/10/2018 3:02:25 PM**
 Instrument: **GC27 (Offline)A** Vial: 15 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		101385816	214.043
DSL:10-14		56667888	318.775
DSL:10-22		207391257	457.733
DSL:10-24		212290764	456.143
DSL:10-28		233620283	495.162
DSL:12-24		198281826	506.358
DSL:12-28		219611345	551.807
DSL:14-24		162471069	535.953
DSL:16-24		119476500	571.846
MO:22-32		28629524	89.499
MO:24-36		22301268	68.942
MO:28-40		452754	2.318
BUNKC:10-40		234038439	1158.202
BUNKC:12-40		220029501	1123.181

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

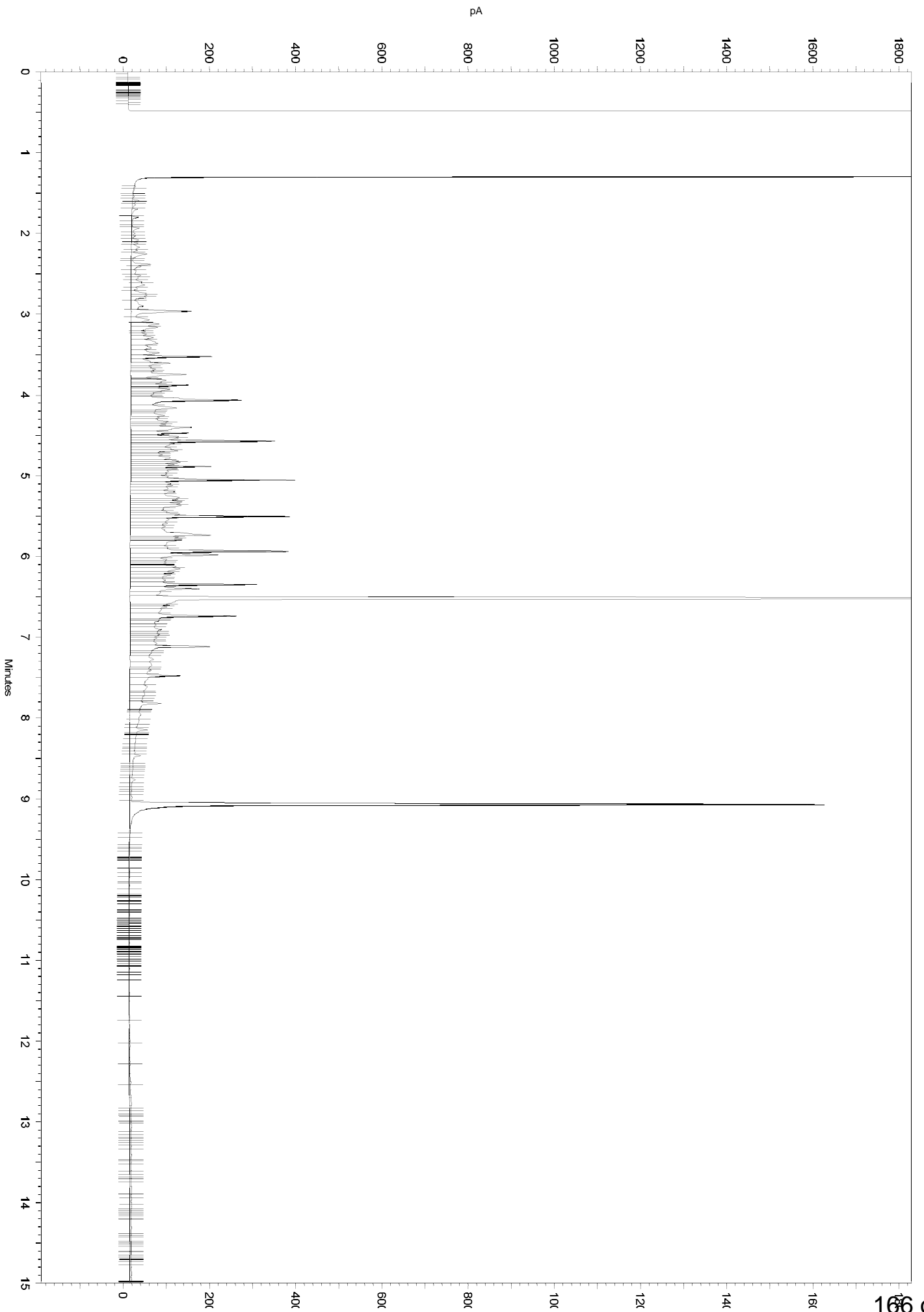
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a015.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      6.477  6.815  0
No Split Peak           6.543  0     0
No Reassign Peak        6.554  6.526  0
No Manual Baseline      8.85   9.491  0
  
```



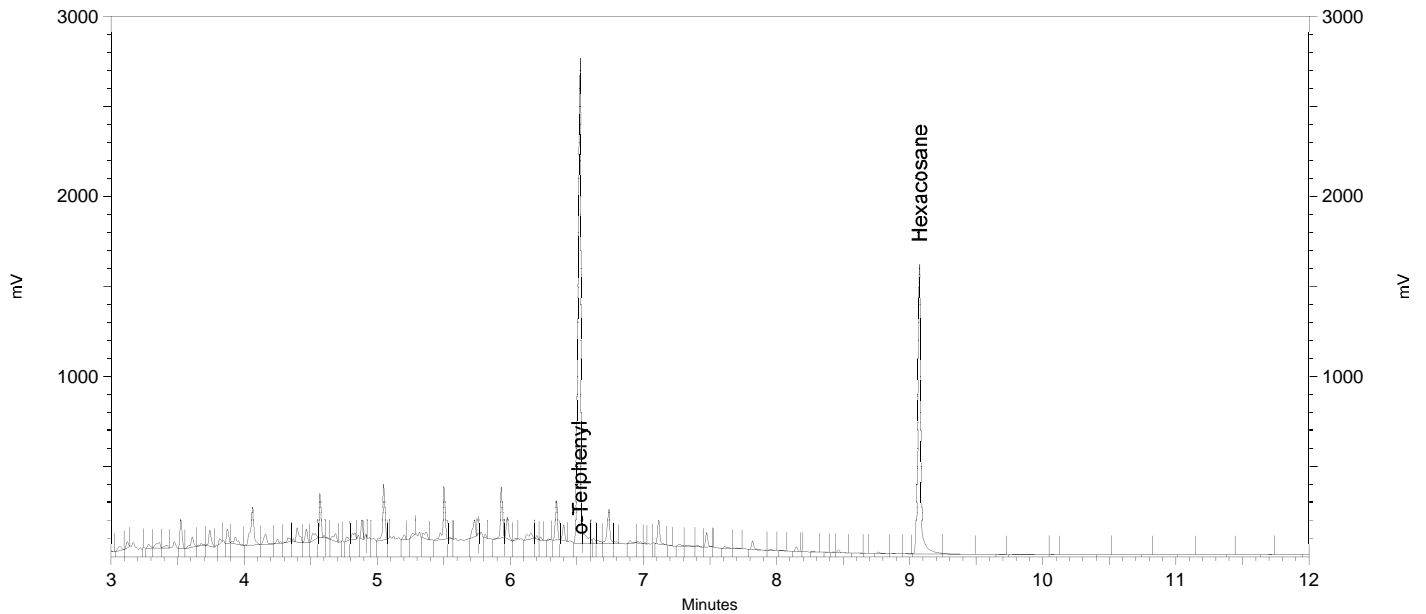
Sample Name: **bs,qc951075sg,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 2:31:36 PM
 Analysis Date: 10/10/2018 3:01:51 PM
 Instrument: GC27 (Offline)A Vial: 15 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.525	27777623	50.288
Hexacosane	9.072	19463169	42.258



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

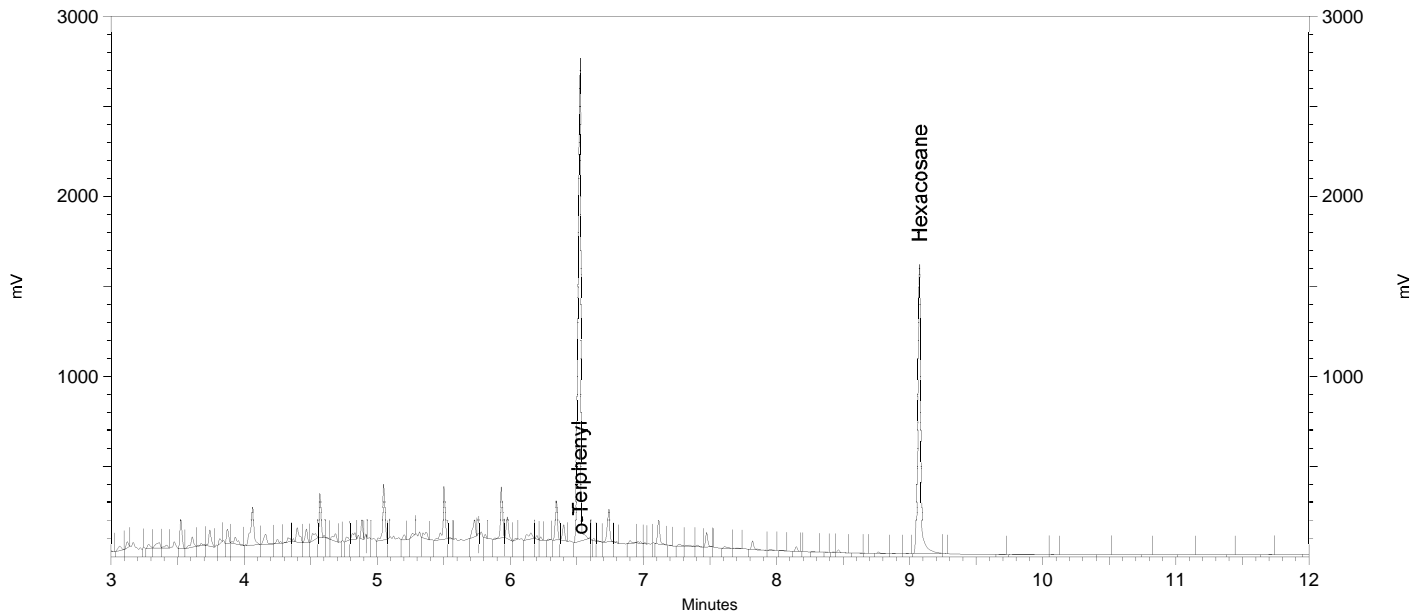
=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a015.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Baseline    6.477  6.815  0
Yes Split Peak         6.543  0       0
Yes Reassign Peak     6.554  6.526  0
Yes Manual Baseline    8.85   9.491  0
  
```


Sample Name: **bs,qc951075sg,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 2:31:36 PM
 Analysis Date: 10/10/2018 3:01:11 PM
 Instrument: GC27 (Offline)A Vial: 15 Operator: teh
 Sample Amount: 1

GC27a
TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.525	27987838	50.668
Hexacosane	9.072	19186402	41.657



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

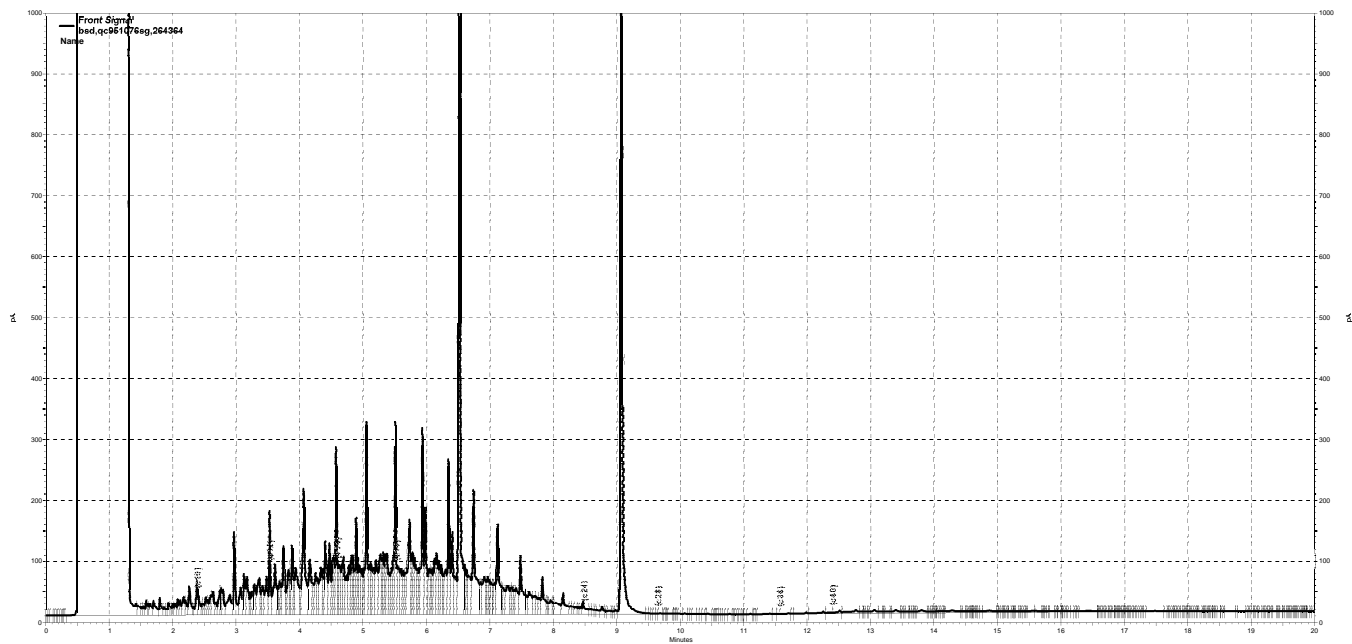
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a015.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a016.dat, Front Signal

Sample Name: **bsd,qc951076sg,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a016.dat
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2018\283.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\TEH_281.met**
 Run Date: **10/10/2018 2:56:52 PM**
 Analysis Date: **10/10/2018 4:34:39 PM**
 Instrument: **GC27 (Offline)A** Vial: 16 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		94893985	200.338
DSL:10-14		56787149	319.446
DSL:10-22		187003348	412.735
DSL:10-24		191434165	411.329
DSL:10-28		209345272	443.711
DSL:12-24		174504046	445.636
DSL:12-28		192415153	483.472
DSL:14-24		142719377	470.797
DSL:16-24		103872282	497.160
MO:22-32		24598569	76.898
MO:24-36		18844248	58.255
MO:28-40		484827	2.482
BUNKC:10-40		209767211	1038.089
BUNKC:12-40		192837092	984.373

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

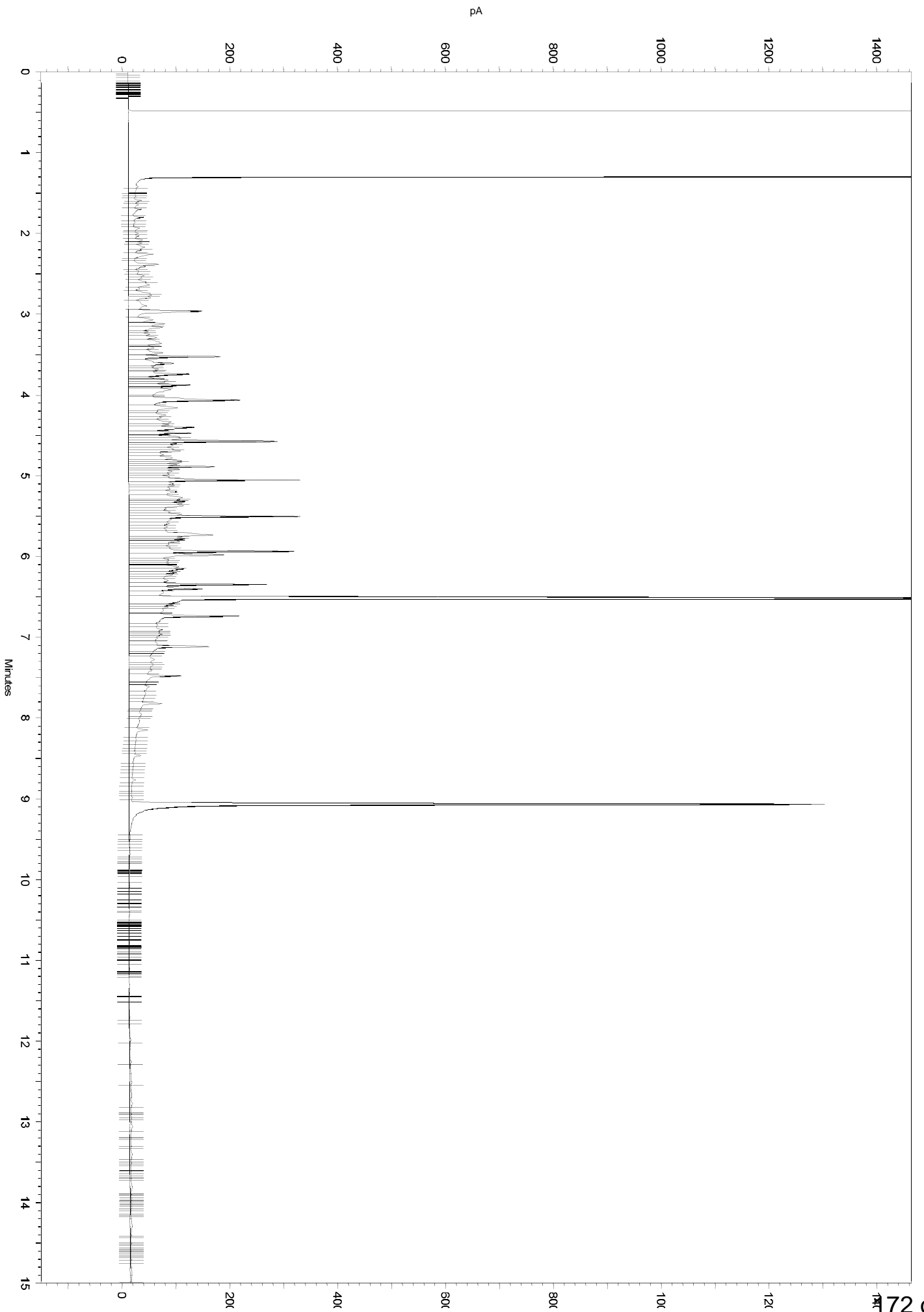
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a016.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.477	6.702	0
No	Split Peak	6.546	0	0
No	Reassign Peak	6.555	6.528	0
No	Manual Baseline	8.937	9.5	0
Yes	Move BL Start	1.777	0.325	0



Sample Name: **bsd,qc951076sg,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a016.dat
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2018\283.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\TEH_281.met**
 Run Date: **10/10/2018 2:56:52 PM**
 Analysis Date: **10/10/2018 4:34:27 PM**
 Instrument: **GC27 (Offline)A** Vial: 16 Operator: teh
 Sample Amount: 1

GC27a
TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		85081854	179.623
DSL:10-14		49244981	277.019
DSL:10-22		173363948	382.631
DSL:10-24		177178826	380.699
DSL:10-28		194460634	412.163
DSL:12-24		164178710	419.268
DSL:12-28		181460518	455.947
DSL:14-24		135528059	447.074
DSL:16-24		99082600	474.235
MO:22-32		23084517	72.165
MO:24-36		18005951	55.663
MO:28-40		359192	1.839
BUNKC:10-40		194804077	964.040
BUNKC:12-40		181803961	928.052

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

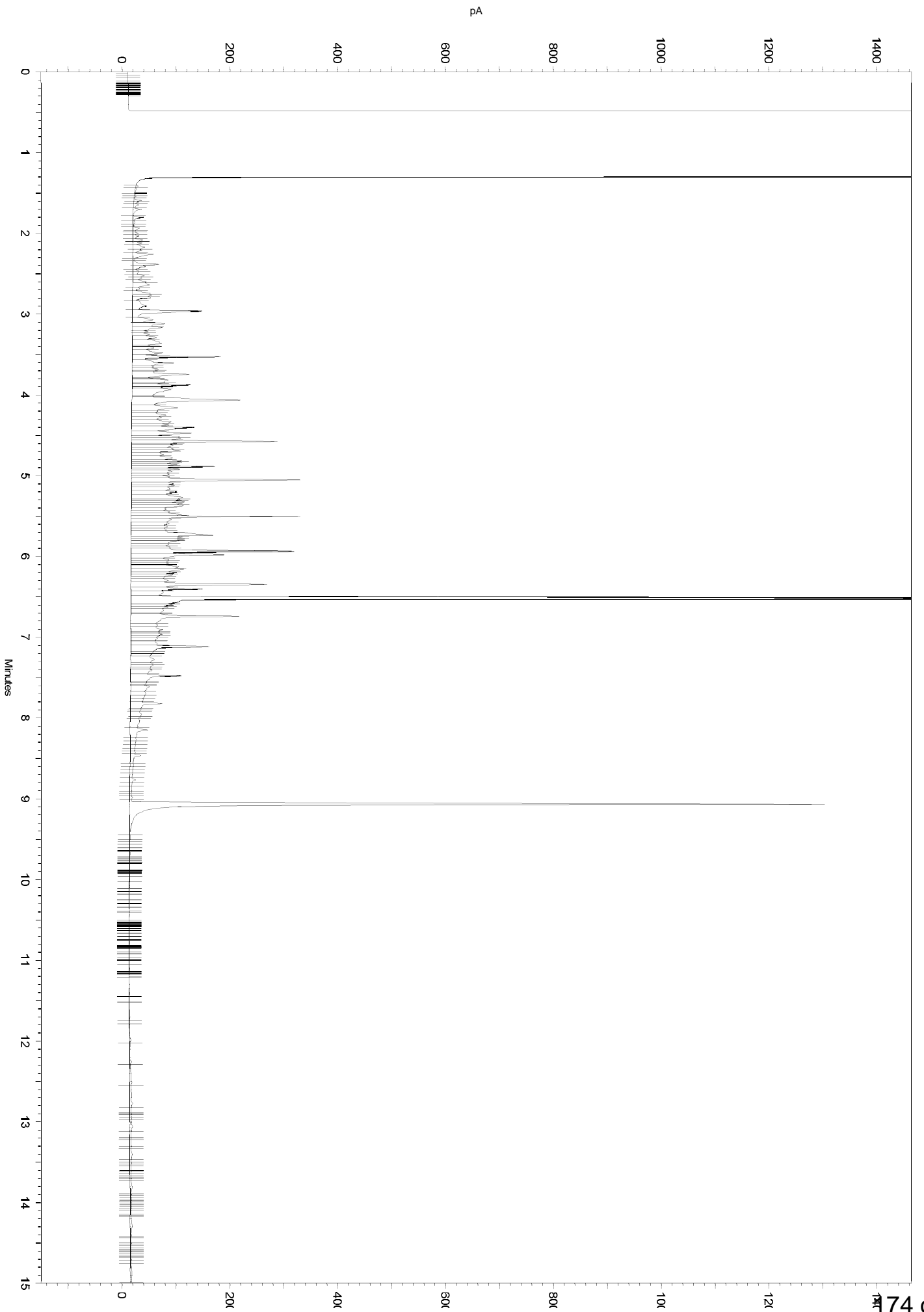
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a016.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.477	6.702	0
No	Split Peak	6.546	0	0
No	Reassign Peak	6.555	6.528	0
No	Manual Baseline	8.937	9.5	0

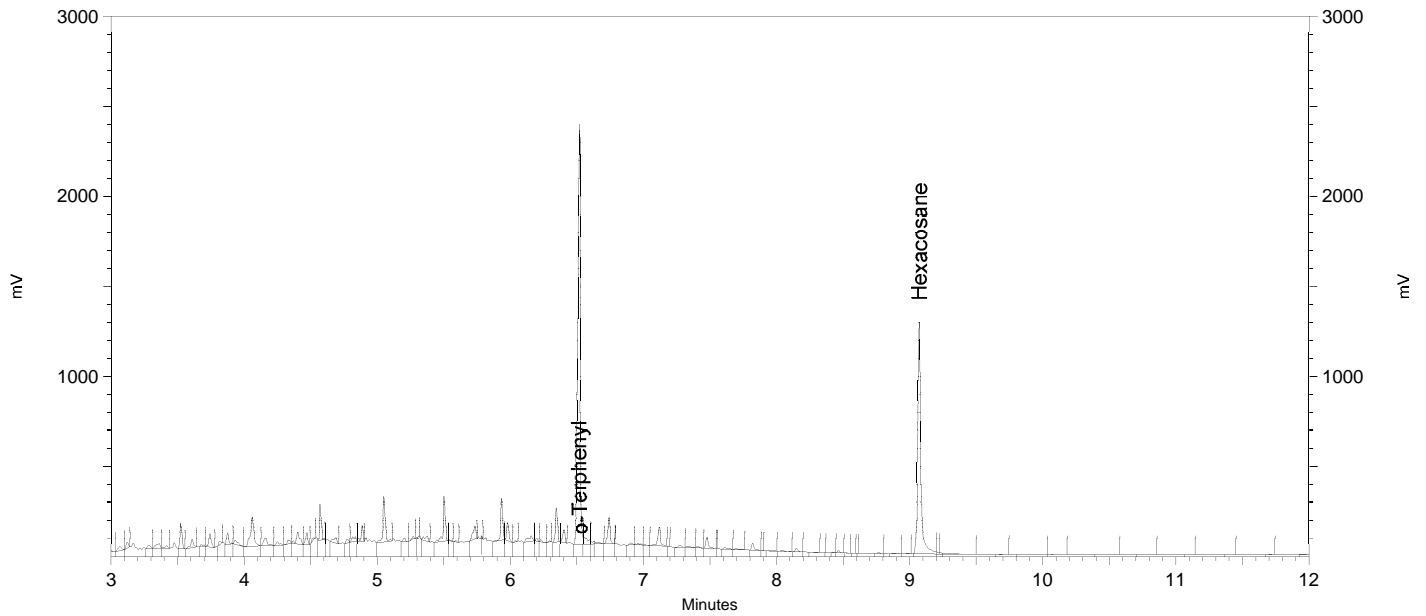


Sample Name: **bsd,qc951076sg,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a016.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 2:56:52 PM
 Analysis Date: 10/10/2018 4:32:49 PM
 Instrument: GC27 (Offline)A Vial: 16 Operator: teh
 Sample Amount: 1

GC27a
TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	23177801	41.960
Hexacosane	9.070	15667539	34.017



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

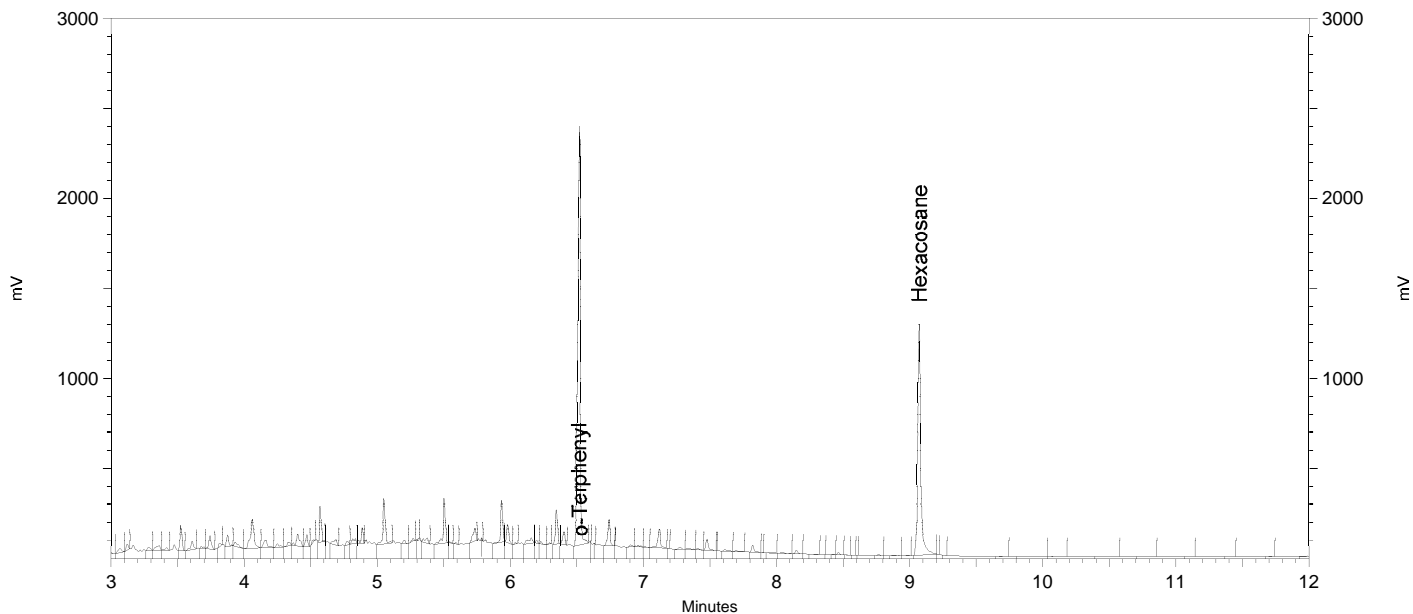
=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a016.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Baseline    6.477  6.702  0
Yes Split Peak         6.546  0       0
Yes Reassign Peak      6.555  6.528  0
Yes Manual Baseline    8.937  9.5    0
  
```


Sample Name: **bsd,qc951076sg,264364**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a016.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 2:56:52 PM
 Analysis Date: 10/10/2018 4:32:18 PM
 Instrument: GC27 (Offline)A Vial: 16 Operator: teh
 Sample Amount: 1

GC27a
TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	23334918	42.245
Hexacosane	9.070	15192714	32.986



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a016.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228163090002
 Units : mg/L

Name : DSL_113
 Date : 24-APR-2018 21:01
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_065	228163090065	DSL_10	24-APR-2018 21:01	S36610
L2	113_066	228163090066	DSL_100	24-APR-2018 21:29	S36611
L3	113_067	228163090067	DSL_500	24-APR-2018 21:57	S36613
L4	113_068	228163090068	DSL_1000	24-APR-2018 22:25	S36615
L5	113_069	228163090069	DSL_5000	24-APR-2018 22:53	S36609

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	44839	44731	45061	44966	45402	AVRG		2.22E-5		45000	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	0	100.00	-1	500.00	0	1000.0	0	5000.0	1

CB1 04/25/18 : Corrected automatically drawn baseline in multiple levels.

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 228163090002

Name : DSL_113
Cal Date : 24-APR-2018

ICV 228163090071 (113_071 24-APR-2018) stds: S35164

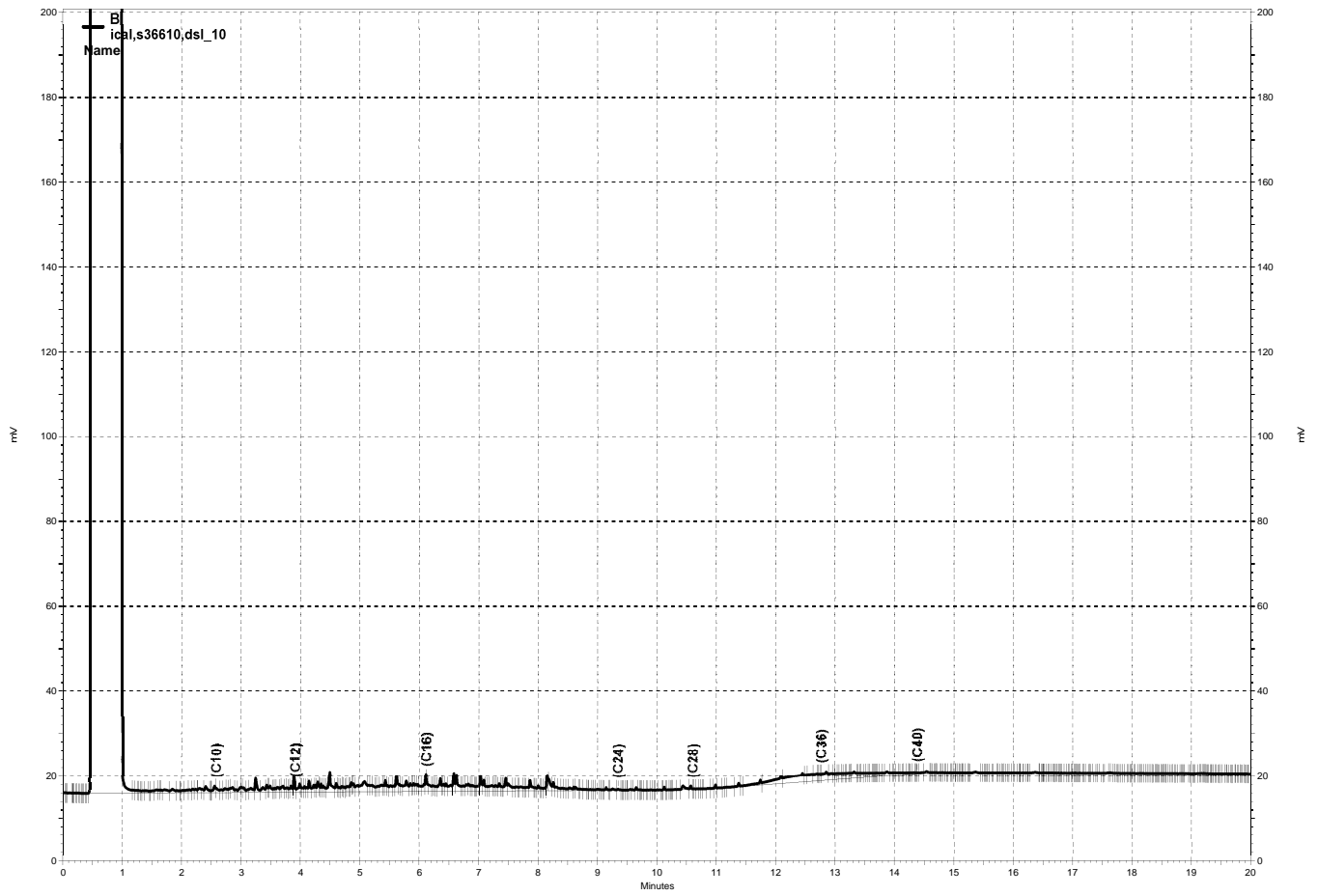
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	485.1	mg/L	-3	15	

Analyst: CB1

Date: 04/25/18

Reviewer: EAH

Date: 04/25/18



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065, B

Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 9:01:41 PM
 Analysis Date: 4/25/2018 8:35:38 AM
 Instrument: GC14B Vial: 65 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	270227	0.000 CAL
DSL:10-22	440685	10.000 CAL
DSL:10-24	448390	10.000 CAL
DSL:10-28	456528	10.000 CAL
DSL:12-24	378685	10.000 CAL
DSL:12-28	386823	10.000 CAL
DSL:16-24	195798	10.000 CAL
MO:22-32	29414	0.000 CAL
MO:24-36	98226	0.000 CAL
MO:28-40	193177	0.000 CAL
BUNKC:10-40	648378	0.000 CAL
BUNKC:12-40	578673	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

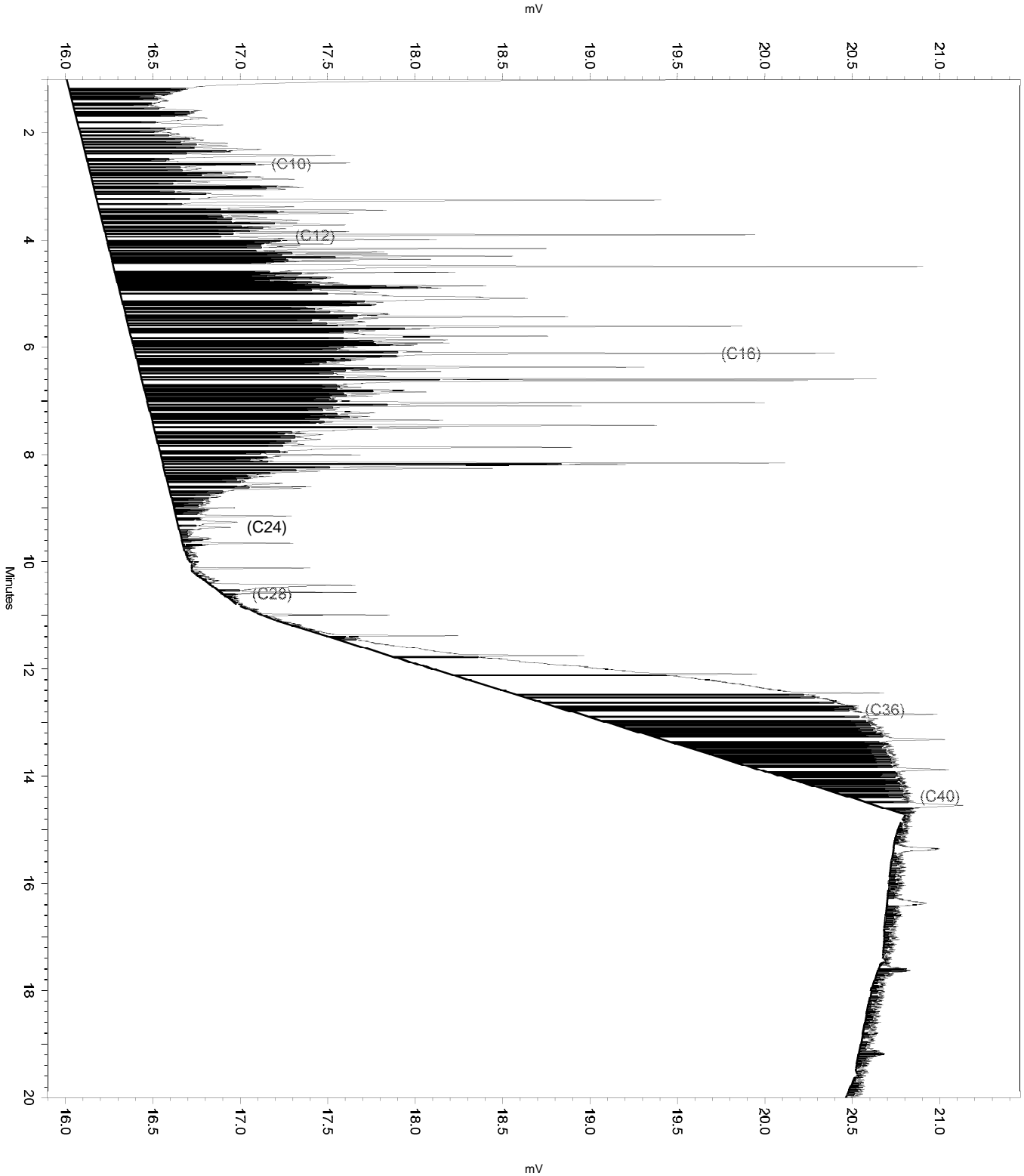
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        1.445     9.775    0
  
```

Sample Name: ical,s36610,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 9:01:41 PM
Analysis Date: 4/25/2018 8:35:38 AM
Instrument: GC14B Vial: 65 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 9:01:41 PM
 Analysis Date: 4/25/2018 8:30:41 AM
 Instrument: GC14B Vial: 65 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	198940	0.000 CAL
DSL:10-22	340579	10.000 CAL
DSL:10-24	344007	10.000 CAL
DSL:10-28	351455	10.000 CAL
DSL:12-24	303581	10.000 CAL
DSL:12-28	311029	10.000 CAL
DSL:16-24	160067	10.000 CAL
MO:22-32	23068	0.000 CAL
MO:24-36	97227	0.000 CAL
MO:28-40	193177	0.000 CAL
BUNKC:10-40	543305	0.000 CAL
BUNKC:12-40	502879	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

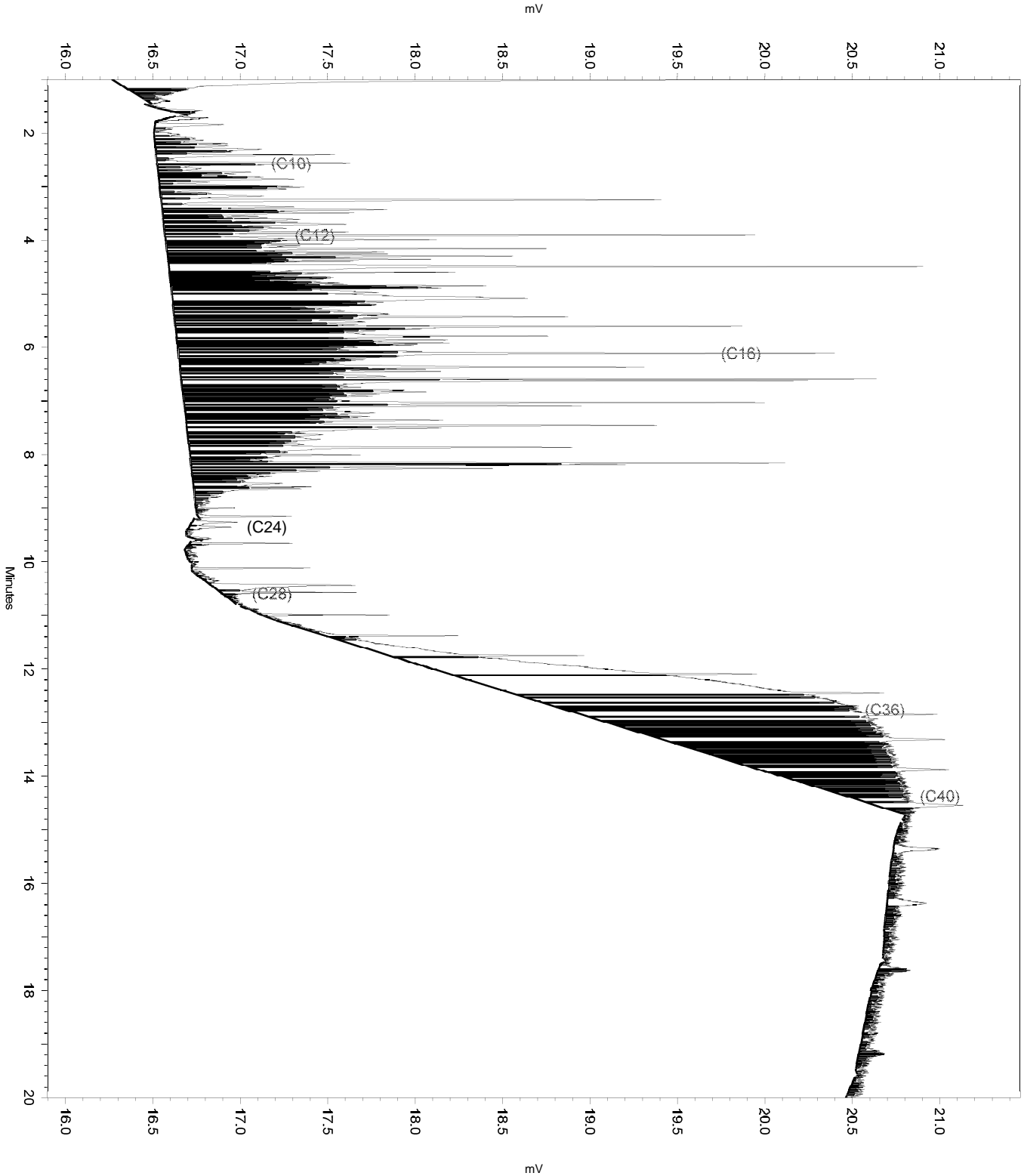
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold           0          0     10
Yes Force Peak Stop    2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

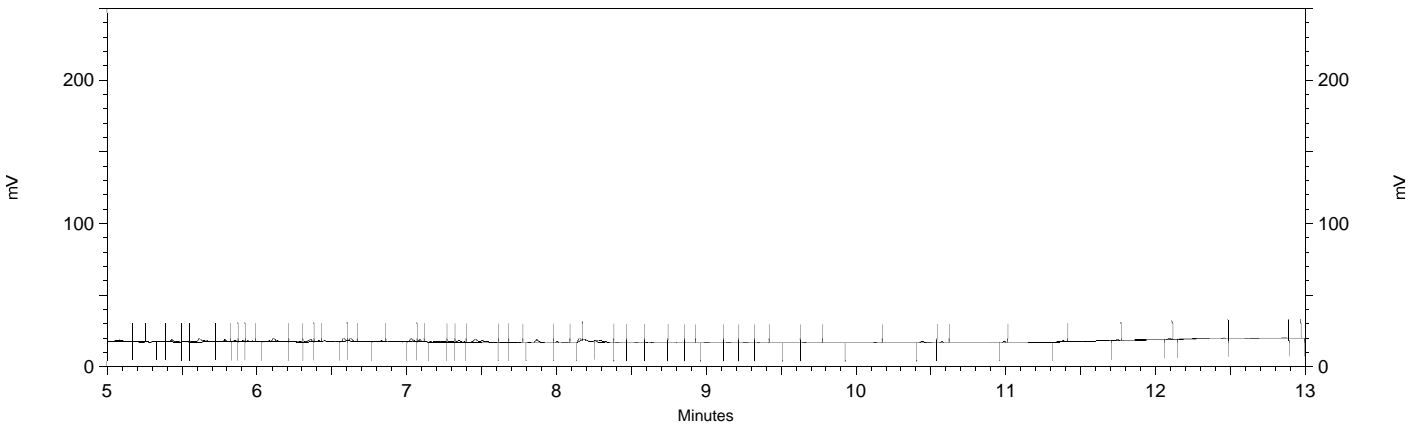
Sample Name: ical,s36610,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 9:01:41 PM
Analysis Date: 4/25/2018 8:30:41 AM
Instrument: GC14B Vial: 65 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b065
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 9:01:41 PM
 Analysis Date: 4/24/2018 9:21:51 PM
 Instrument: GC14B Vial: 65 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.285	452	0.010
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

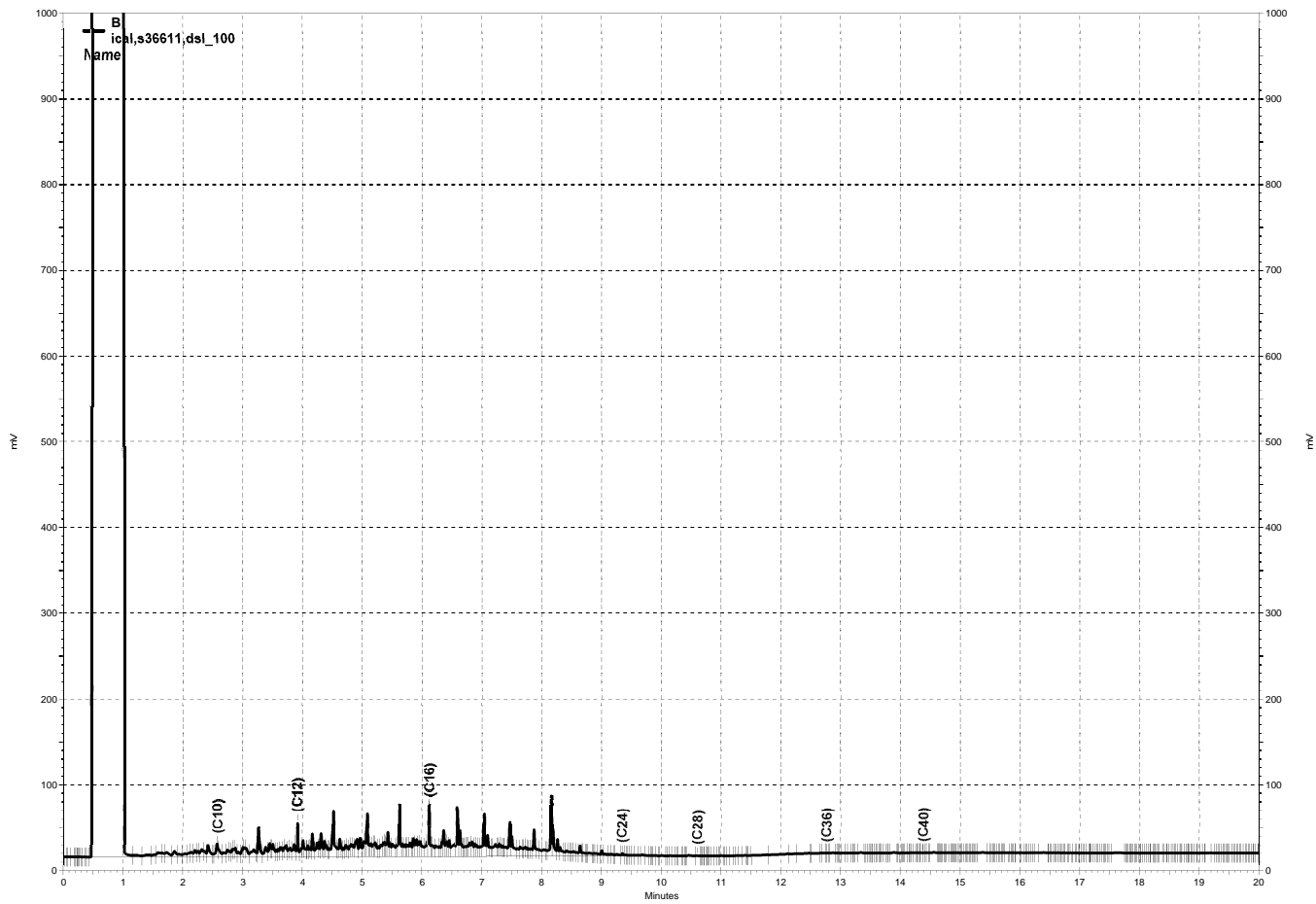
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b065_A6DB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b066, B

Sample Name: ical,s36611,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b066
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 9:29:37 PM
 Analysis Date: 4/25/2018 8:35:45 AM
 Instrument: GC14B Vial: 66 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2608056	0.000 CAL
DSL:10-22	4372380	100.000 CAL
DSL:10-24	4473107	100.000 CAL
DSL:10-28	4508527	100.000 CAL
DSL:12-24	3861945	100.000 CAL
DSL:12-28	3897365	100.000 CAL
DSL:16-24	2045249	100.000 CAL
MO:22-32	190459	0.000 CAL
MO:24-36	94851	0.000 CAL
MO:28-40	70076	0.000 CAL
BUNKC:10-40	4577544	0.000 CAL
BUNKC:12-40	3966382	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

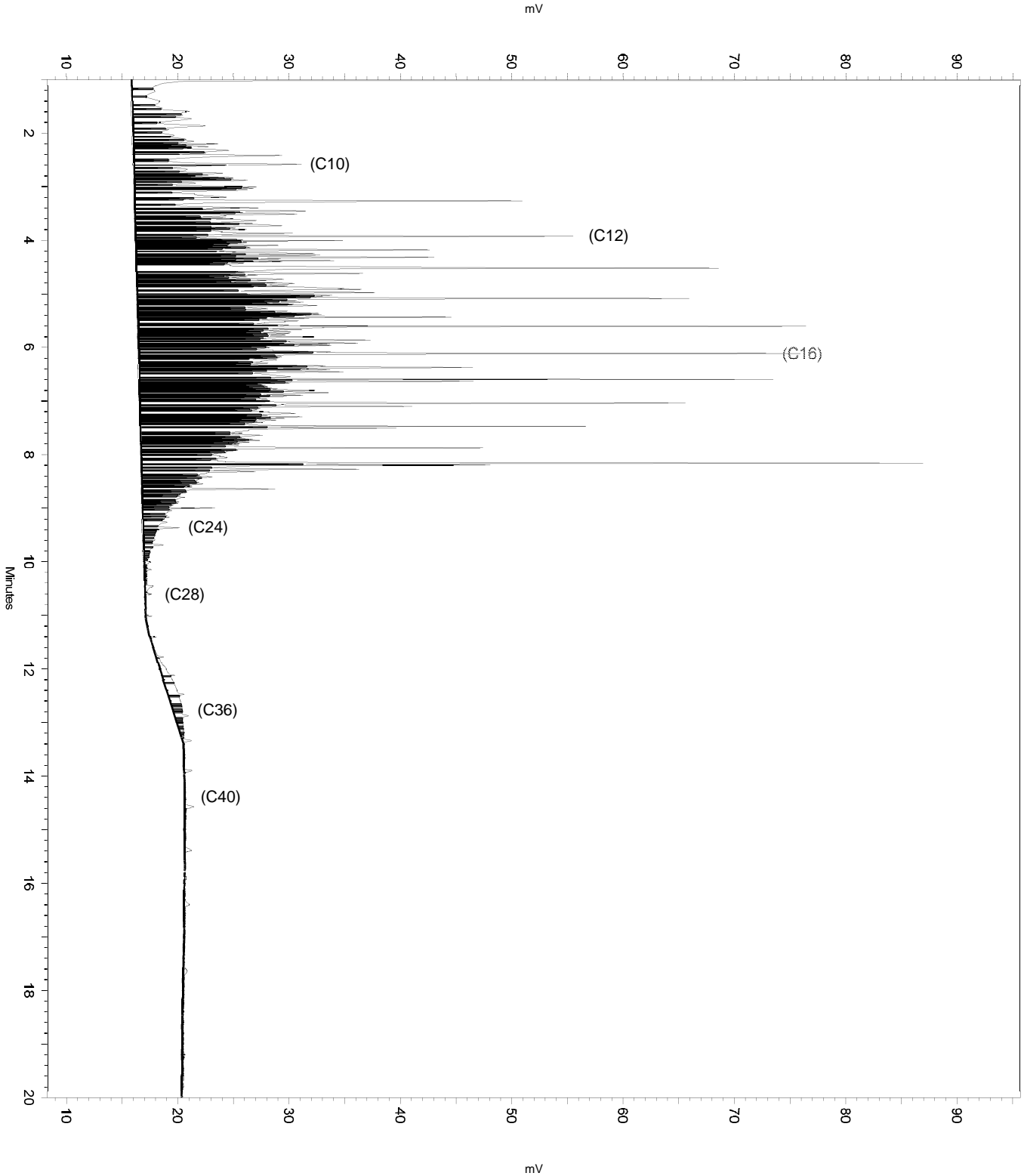
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b066
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

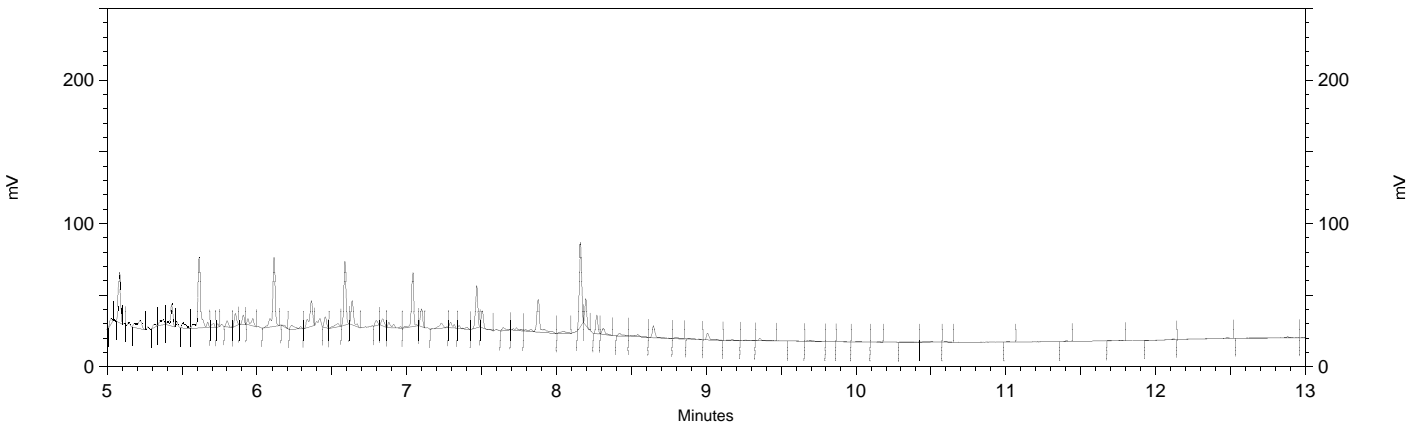
Sample Name: ical,s36611,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b066
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 9:29:37 PM
Analysis Date: 4/25/2018 8:35:45 AM
Instrument: GC14B Vial: 66 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36611,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b066
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 9:29:37 PM
 Analysis Date: 4/24/2018 9:49:47 PM
 Instrument: GC14B Vial: 66 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.293	5939	0.134
Hexacosane	10.010	893	0.023



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

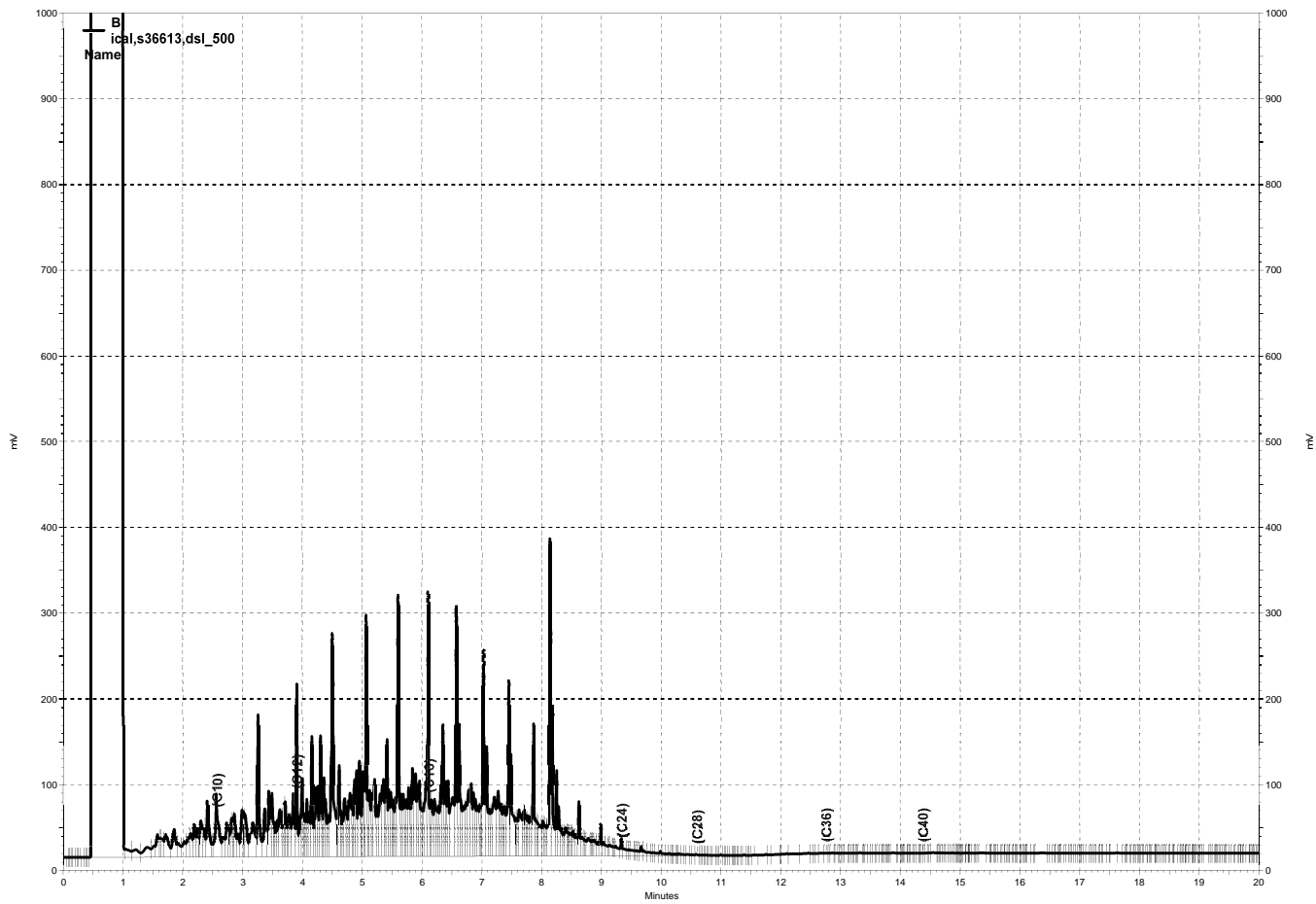
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b066_A6DC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b067, B

Sample Name: ical,s36613,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b067
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 9:57:41 PM
 Analysis Date: 4/25/2018 8:35:52 AM
 Instrument: GC14B Vial: 67 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	13051890	0.000 CAL
DSL:10-22	21953688	500.000 CAL
DSL:10-24	22530604	500.000 CAL
DSL:10-28	22746636	500.000 CAL
DSL:12-24	19491664	500.000 CAL
DSL:12-28	19707696	500.000 CAL
DSL:16-24	10328998	500.000 CAL
MO:22-32	1056879	0.000 CAL
MO:24-36	328923	0.000 CAL
MO:28-40	52763	0.000 CAL
BUNKC:10-40	22793680	0.000 CAL
BUNKC:12-40	19754740	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

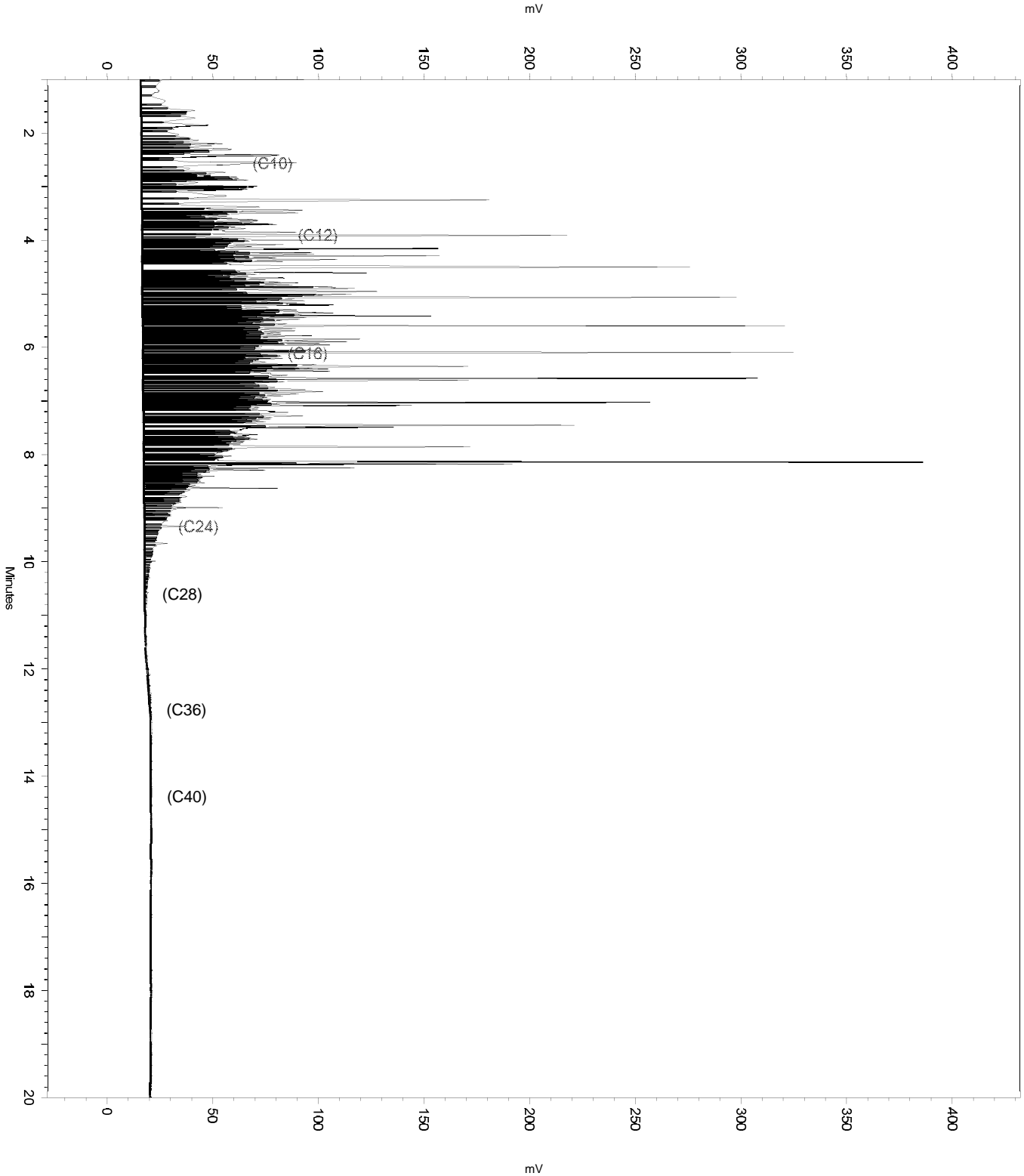
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0    0
Yes Threshold            0          0   10
Yes Force Peak Stop     2.27       0    0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b067
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

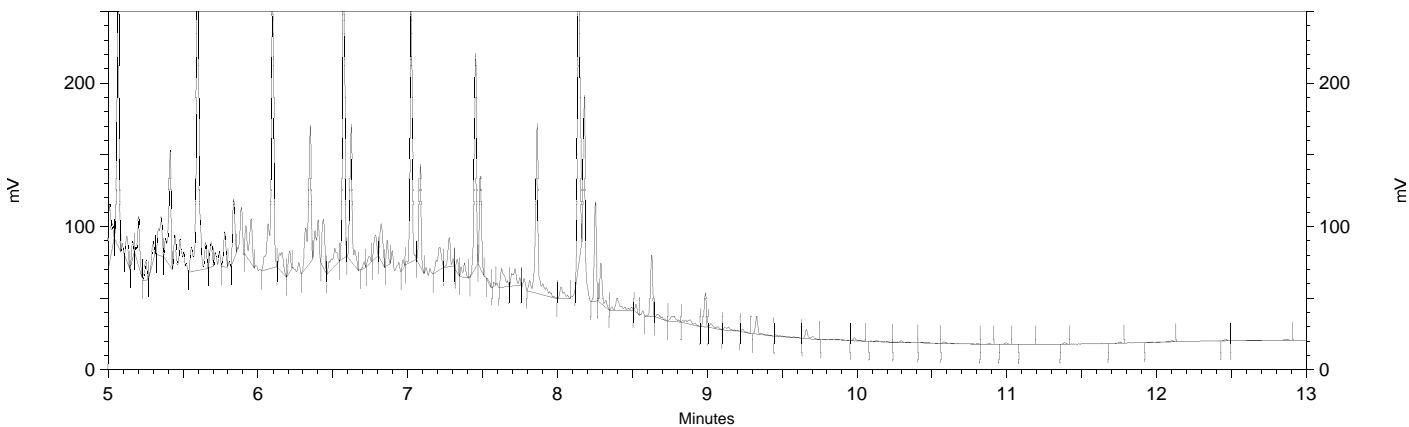
Sample Name: ical,s36613,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b067
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 9:57:41 PM
Analysis Date: 4/25/2018 8:35:52 AM
Instrument: GC14B Vial: 67 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36613,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b067
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 9:57:41 PM
 Analysis Date: 4/24/2018 10:17:50 PM
 Instrument: GC14B Vial: 67 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.277	26333	0.594
Hexacosane	9.985	3896	0.099



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

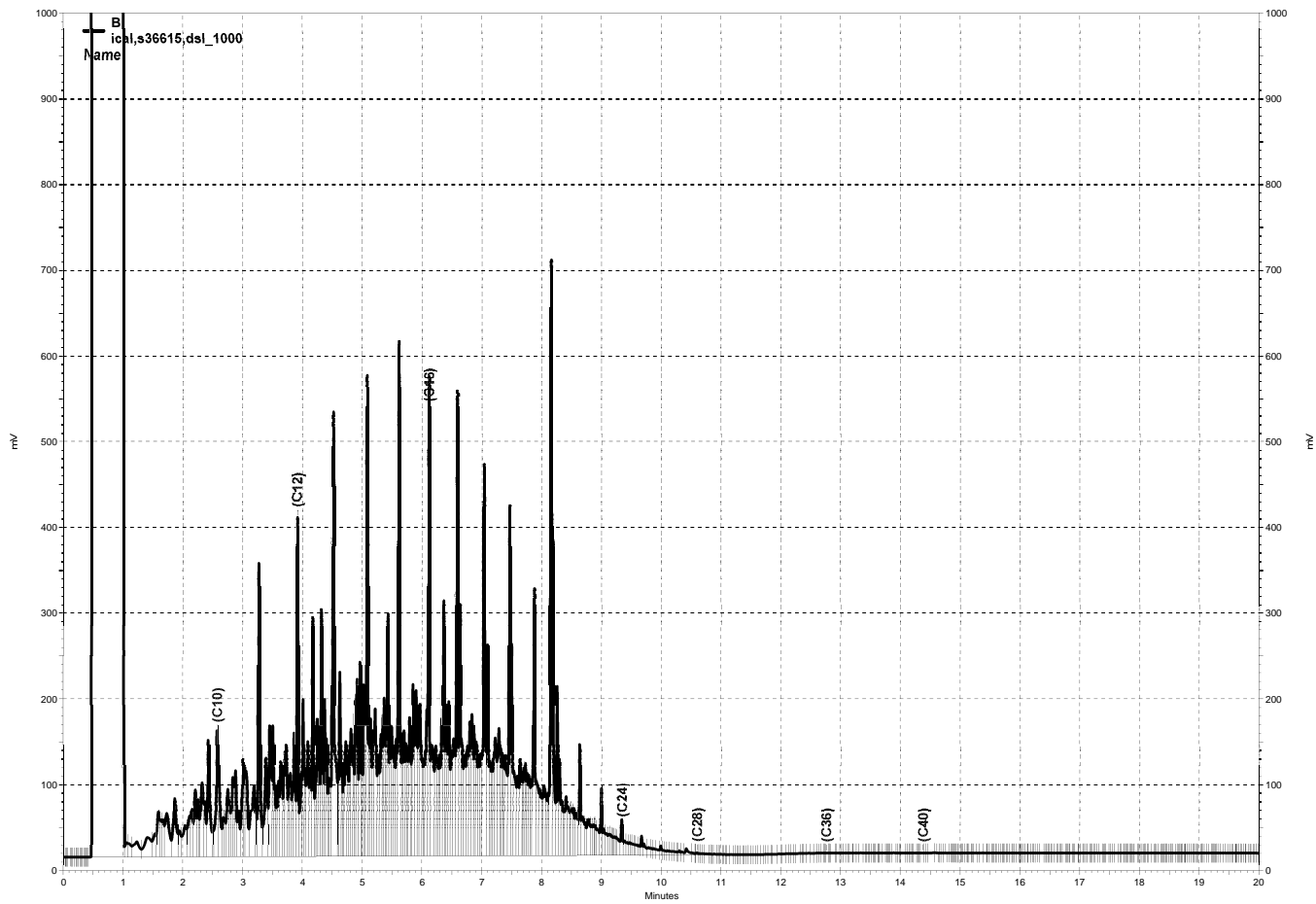
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b067_A6DD.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b068, B

Sample Name: ical,s36615,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b068
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 10:25:39 PM
 Analysis Date: 4/25/2018 8:35:58 AM
 Instrument: GC14B Vial: 68 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	26063924	0.000 CAL
DSL:10-22	43820132	1000.000 CAL
DSL:10-24	44965744	1000.000 CAL
DSL:10-28	45482216	1000.000 CAL
DSL:12-24	38763944	1000.000 CAL
DSL:12-28	39280416	1000.000 CAL
DSL:16-24	20560352	1000.000 CAL
MO:22-32	2195363	0.000 CAL
MO:24-36	719017	0.000 CAL
MO:28-40	151305	0.000 CAL
BUNKC:10-40	45619836	0.000 CAL
BUNKC:12-40	39418036	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

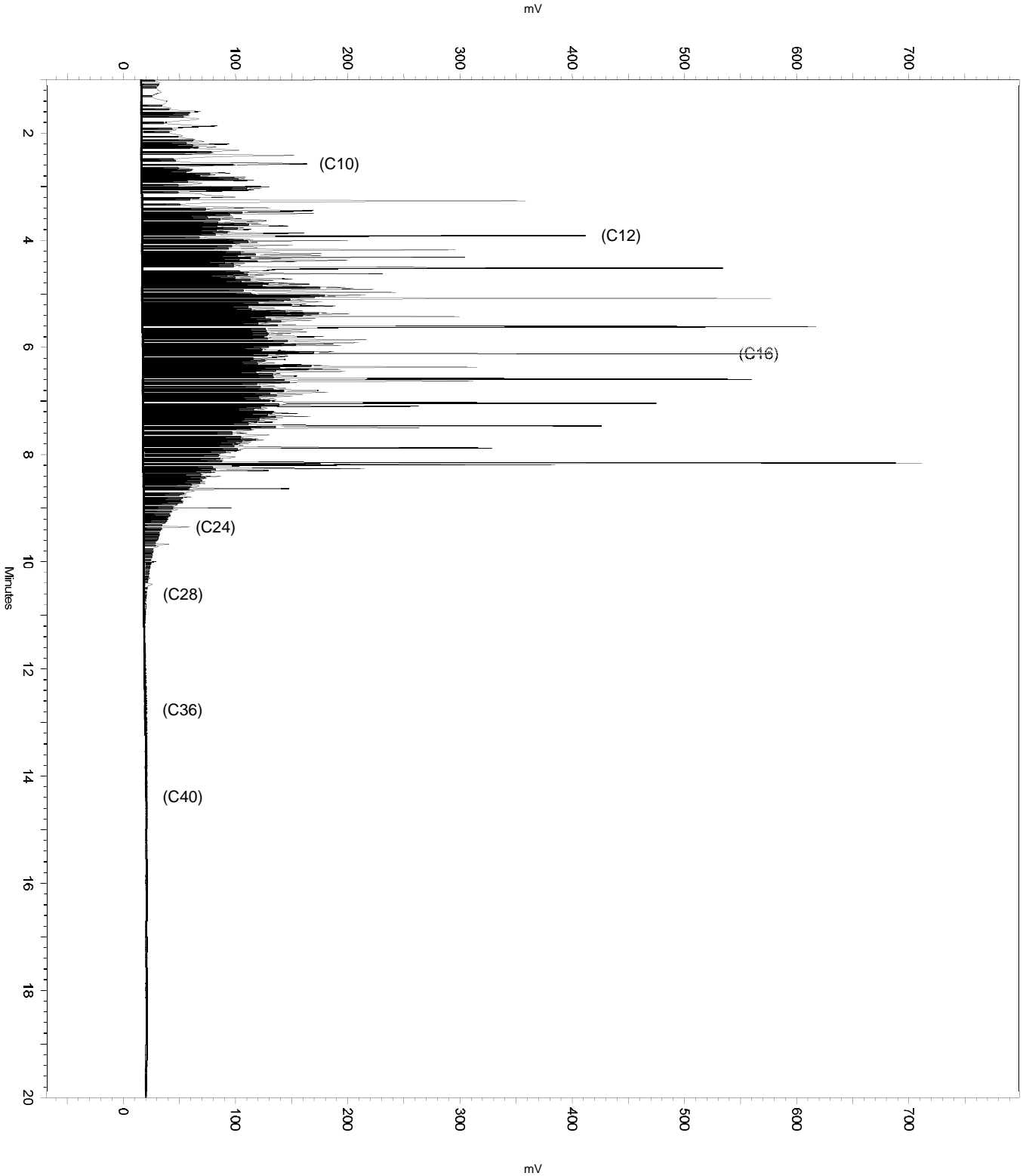
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0    0
Yes Threshold            0          0   10
Yes Force Peak Stop     2.27       0    0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b068
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

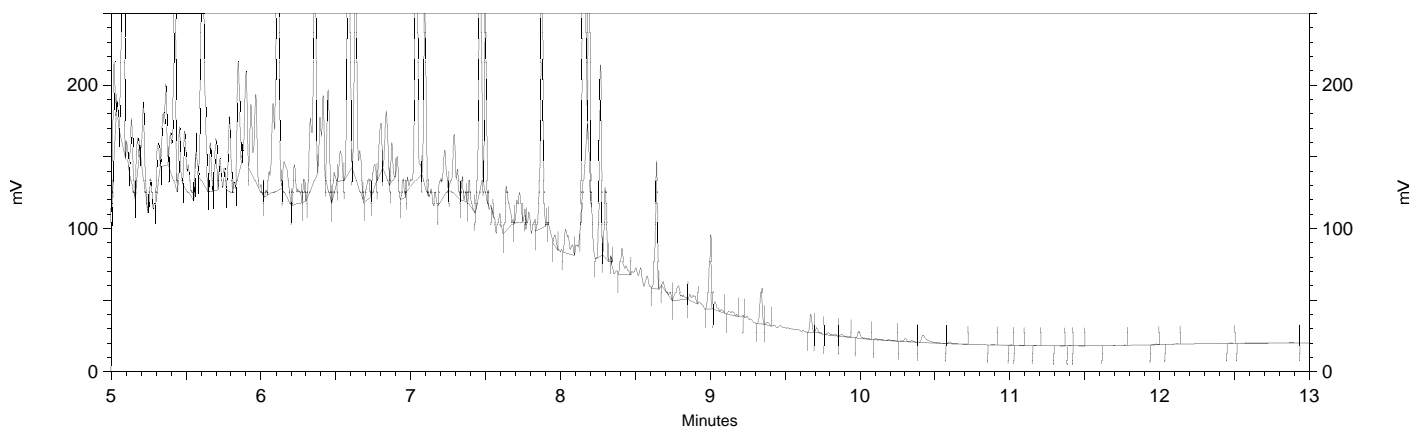
Sample Name: ical,s36615,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b068
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 10:25:39 PM
Analysis Date: 4/25/2018 8:35:58 AM
Instrument: GC14B Vial: 68 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36615,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b068
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 10:25:39 PM
 Analysis Date: 4/24/2018 10:45:48 PM
 Instrument: GC14B Vial: 68 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.290	71882	1.621
Hexacosane	9.997	7117	0.180



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

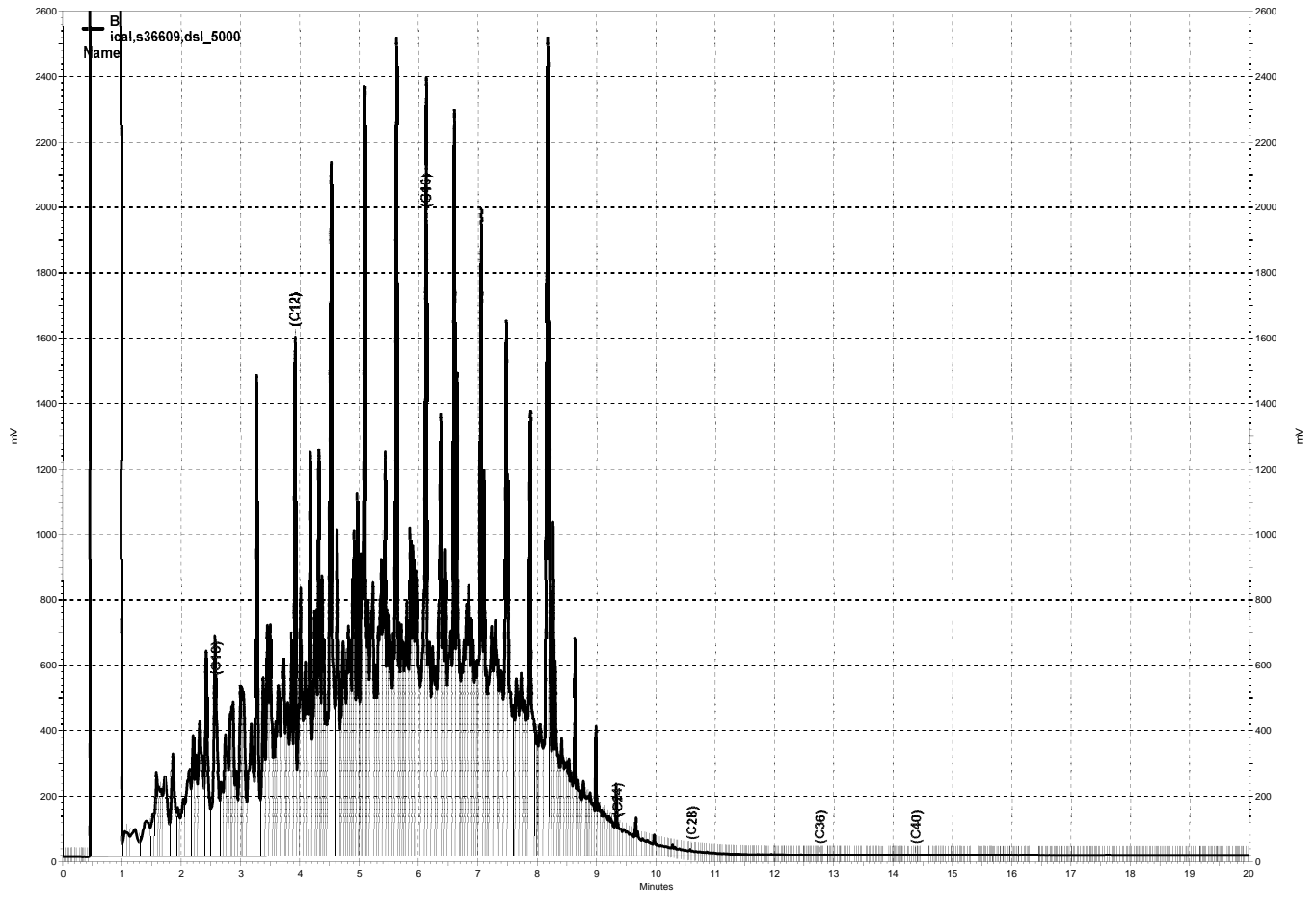
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b068_A6DE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069, B

Sample Name: ical,s36609,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 10:53:36 PM
 Analysis Date: 4/25/2018 8:36:06 AM
 Instrument: GC14B Vial: 69 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	131019048	0.000 CAL
DSL:10-22	220768528	5000.000 CAL
DSL:10-24	227007888	5000.000 CAL
DSL:10-28	229823200	5000.000 CAL
DSL:12-24	196437424	5000.000 CAL
DSL:12-28	199252736	5000.000 CAL
DSL:16-24	105117352	5000.000 CAL
MO:22-32	12001087	0.000 CAL
MO:24-36	4098456	0.000 CAL
MO:28-40	636985	0.000 CAL
BUNKC:10-40	230344496	0.000 CAL
BUNKC:12-40	199774032	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

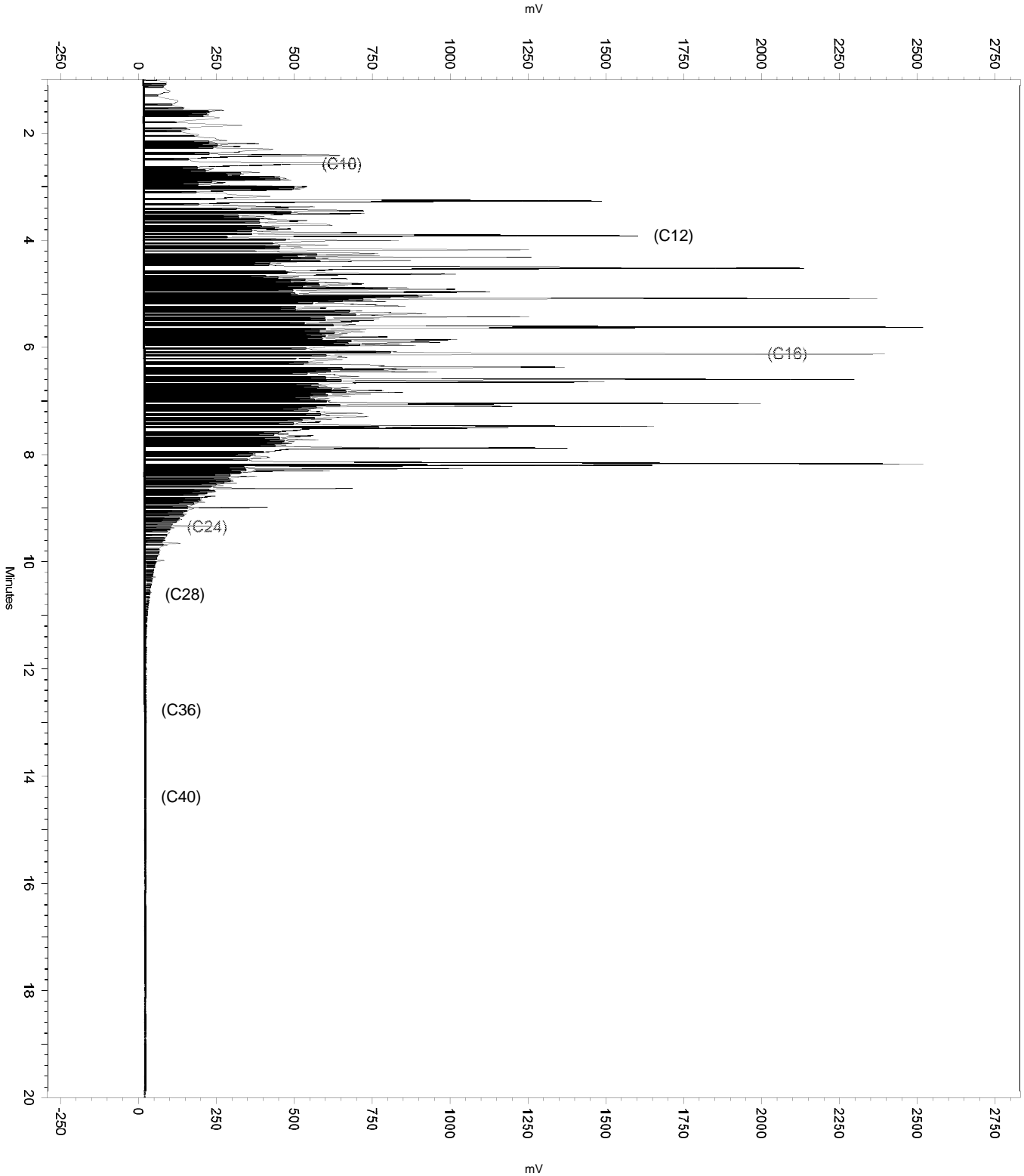
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop       14.258    14.458    0
  
```

Sample Name: ical,s36609,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 10:53:36 PM
Analysis Date: 4/25/2018 8:36:06 AM
Instrument: GC14B Vial: 69 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36609,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 10:53:36 PM
 Analysis Date: 4/25/2018 8:34:12 AM
 Instrument: GC14B Vial: 69 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	131013664	0.000 CAL
DSL:10-22	220756672	5000.000 CAL
DSL:10-24	226993712	5000.000 CAL
DSL:10-28	229804592	5000.000 CAL
DSL:12-24	196424528	5000.000 CAL
DSL:12-28	199235408	5000.000 CAL
DSL:16-24	105108112	5000.000 CAL
MO:22-32	11989438	0.000 CAL
MO:24-36	4084573	0.000 CAL
MO:28-40	620110	0.000 CAL
BUNKC:10-40	230309584	0.000 CAL
BUNKC:12-40	199740400	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

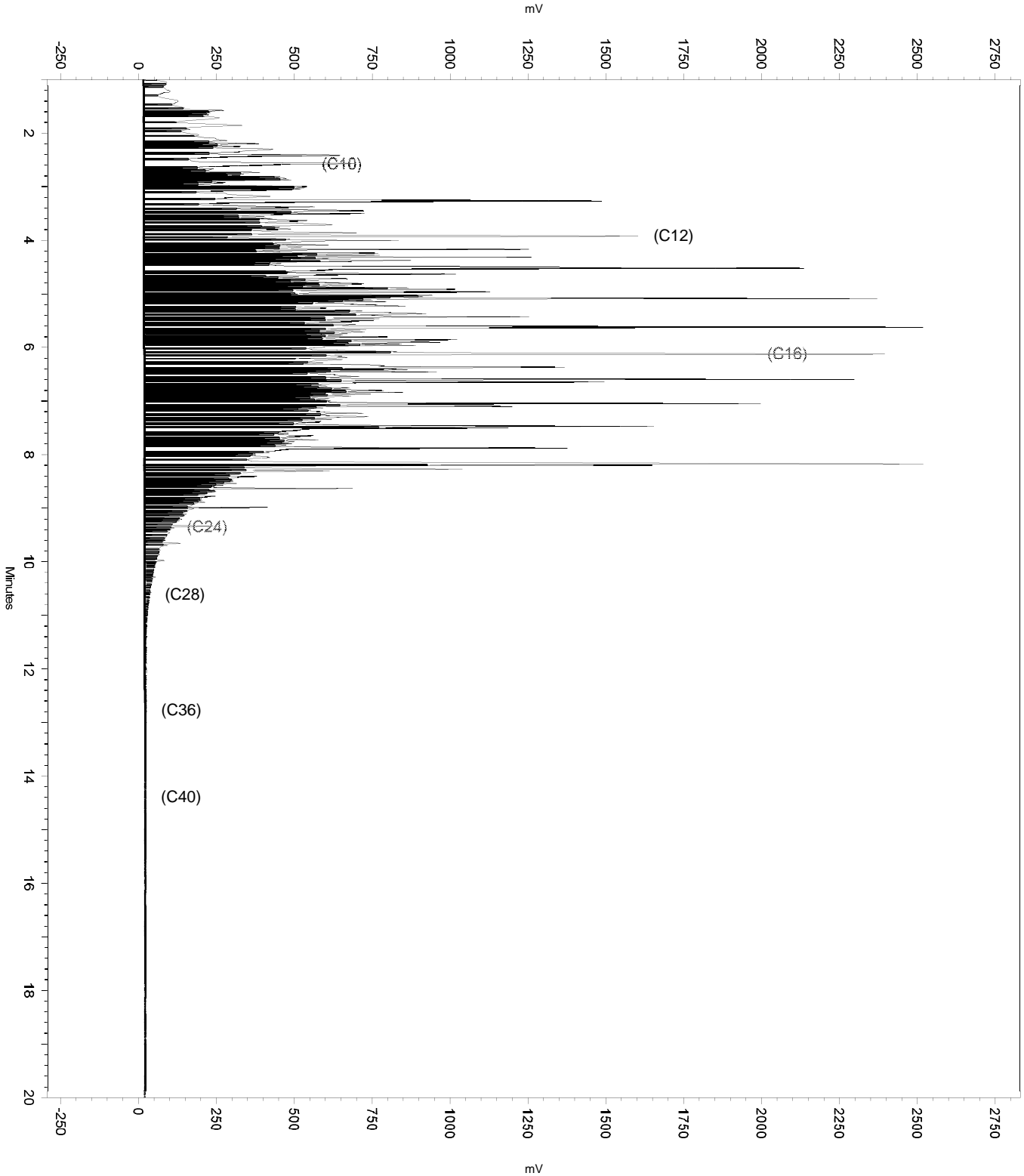
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0    0
Yes Threshold           0          0   10
Yes Force Peak Stop    2.27        0    0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

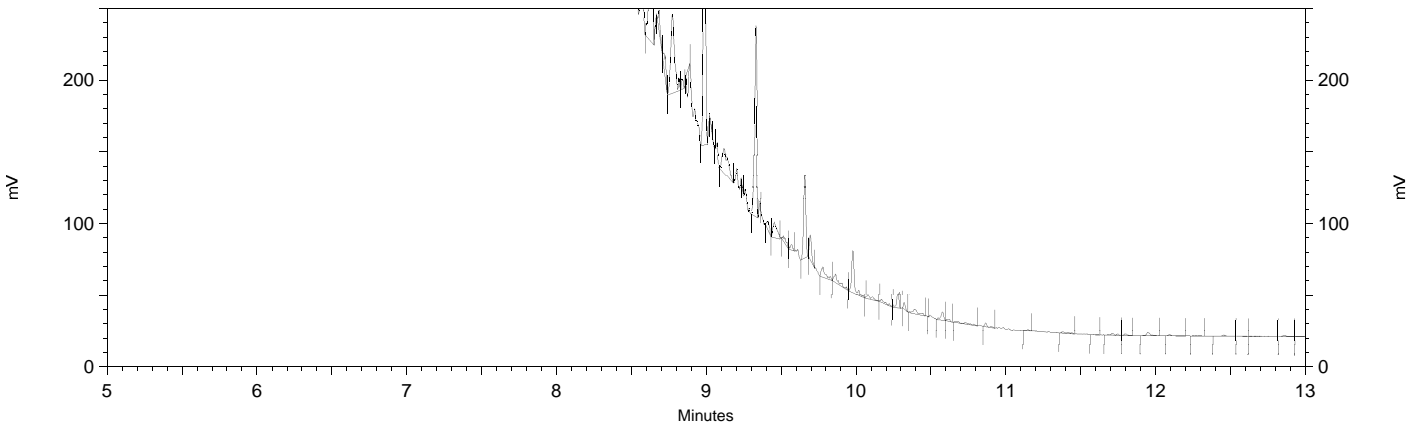

Sample Name: ical,s36609,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 10:53:36 PM
Analysis Date: 4/25/2018 8:34:12 AM
Instrument: GC14B Vial: 69 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36609,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b069
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 10:53:36 PM
 Analysis Date: 4/24/2018 11:13:45 PM
 Instrument: GC14B Vial: 69 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.292	308652	6.961
Hexacosane	9.977	37424	0.947



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

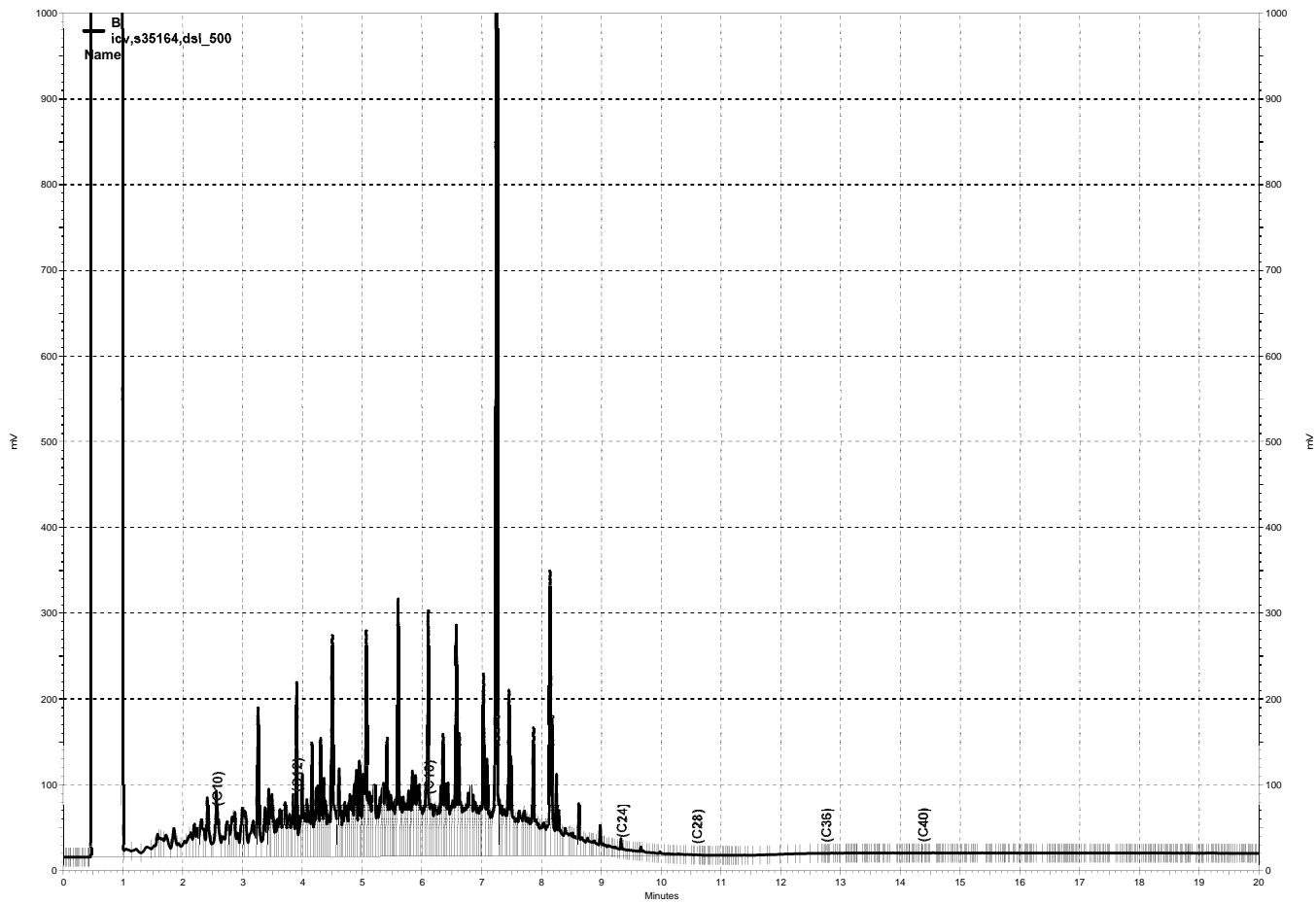
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b069_A6DF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071, B

Sample Name: icv,s35164,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 11:49:35 PM
 Analysis Date: 4/25/2018 9:09:27 AM
 Instrument: GC14B Vial: 71 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12829230	316.302
DSL:10-22	23951324	545.157
DSL:10-24	24481440	544.035
DSL:10-28	24689348	542.198
DSL:12-24	21366524	552.042
DSL:12-28	21574432	549.801
DSL:16-24	12383006	605.383
MO:22-32	949819	29.399
MO:24-36	349657	10.433
MO:28-40	92901	4.202
BUNKC:10-40	24776552	1207.453
BUNKC:12-40	21661636	1086.868

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

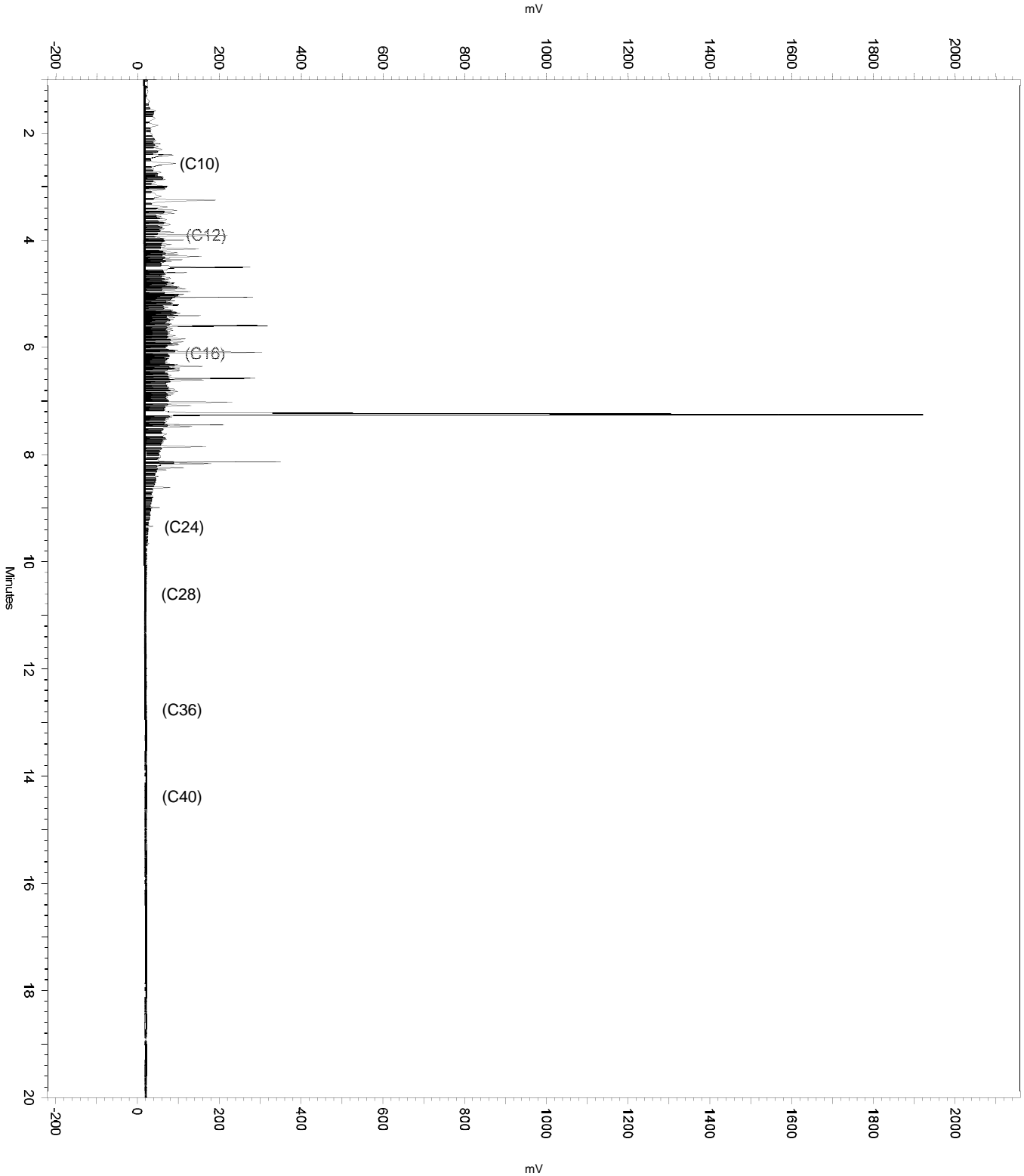
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold           0          0     10
Yes Force Peak Stop    2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      7.168     7.397    0
No Split Peak           7.201     0         0
No Split Peak           7.269     0         0
Yes Move BL Stop        10.06     11.138   0
  
```

Sample Name: icv,s35164,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 11:49:35 PM
Analysis Date: 4/25/2018 9:09:27 AM
Instrument: GC14B Vial: 71 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: **icv,s35164,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
 Run Date: 4/24/2018 11:49:35 PM
 Analysis Date: 4/25/2018 9:09:03 AM
 Instrument: GC14B Vial: 71 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12641231	311.667
DSL:10-22	23529840	535.564
DSL:10-24	23980948	532.913
DSL:10-28	24076026	528.729
DSL:12-24	20913076	540.326
DSL:12-28	21008154	535.370
DSL:16-24	12060129	589.598
MO:22-32	739047	22.875
MO:24-36	213908	6.383
MO:28-40	84810	3.836
BUNKC:10-40	24159520	1177.383
BUNKC:12-40	21091648	1058.269

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

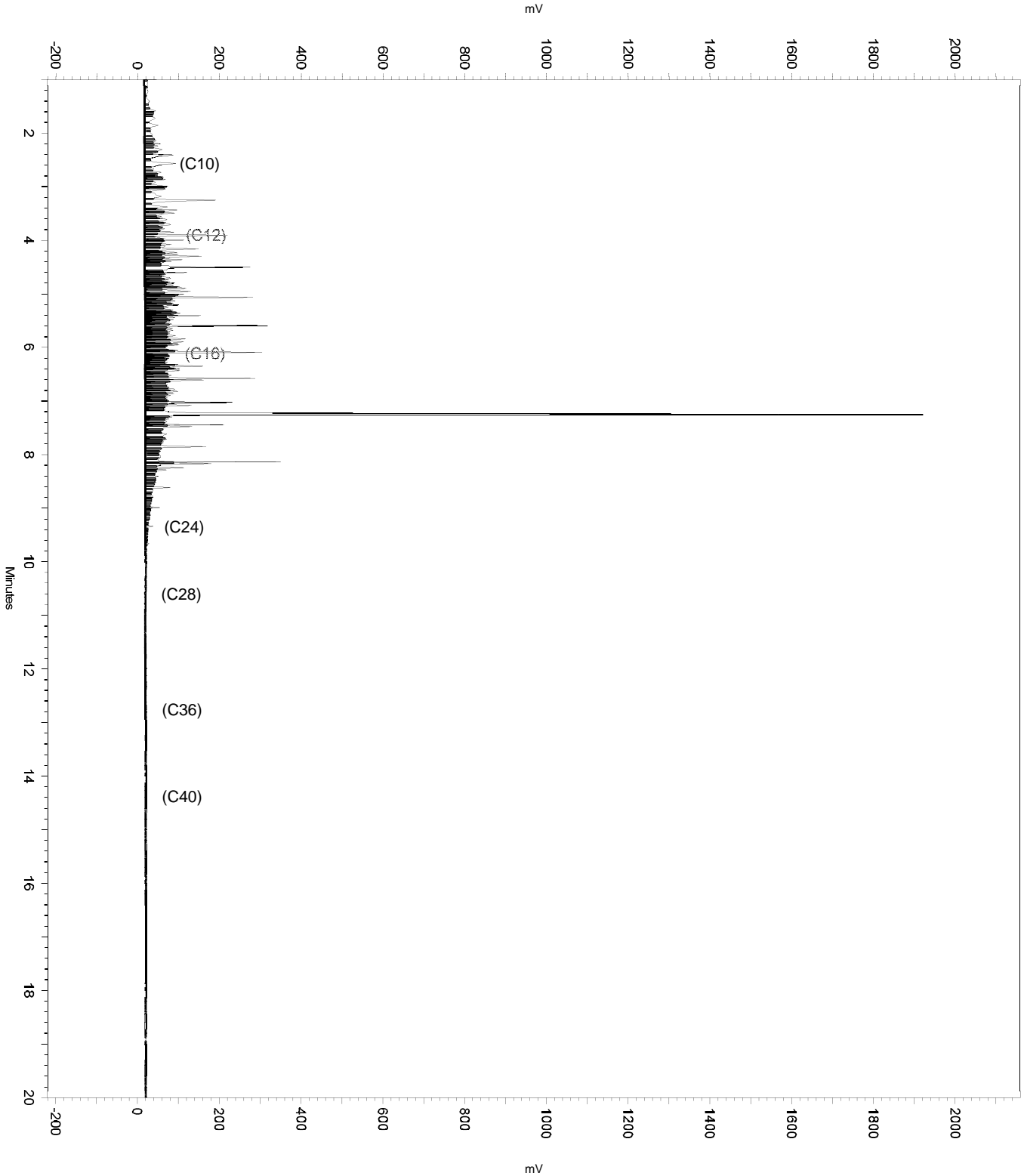
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Force Peak Stop     2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Baseline      7.168     7.397     0
No Split Peak           7.201     0          0
No Split Peak           7.269     0          0
  
```

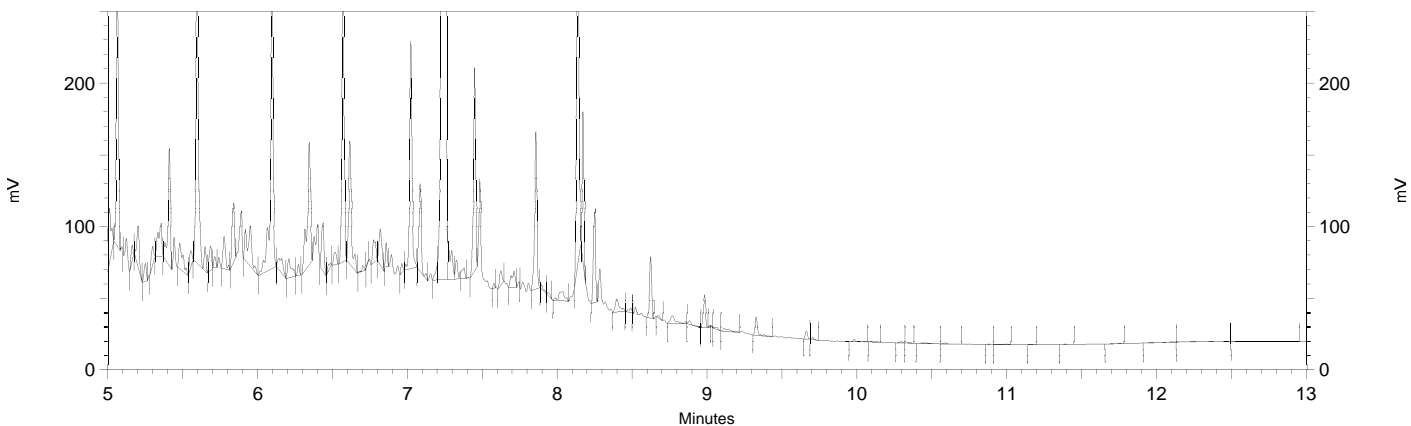
Sample Name: icv,s35164,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH113b.met
Run Date: 4/24/2018 11:49:35 PM
Analysis Date: 4/25/2018 9:09:03 AM
Instrument: GC14B Vial: 71 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: icv,s35164,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 11:49:35 PM
 Analysis Date: 4/25/2018 9:07:45 AM
 Instrument: GC14B Vial: 71 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.253	2651730	49.891
Hexacosane	9.985	3489	0.073



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

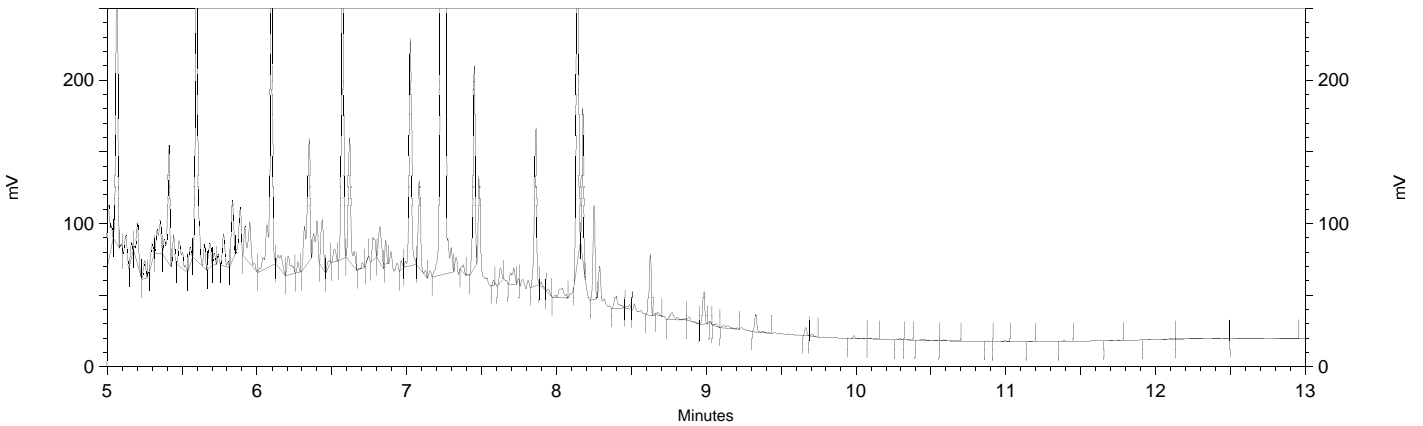
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	7.168	7.397	0
Yes	Split Peak	7.201	0	0
Yes	Split Peak	7.269	0	0

Sample Name: icv,s35164,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\113b071
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\113.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr113.met
 Run Date: 4/24/2018 11:49:35 PM
 Analysis Date: 4/25/2018 12:09:44 AM
 Instrument: GC14B Vial: 71 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.253	2692489	60.728
Hexacosane	9.985	3489	0.088



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\113b071_A6E1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228223554001
 Units : mg/L

Name : MO_155
 Date : 04-JUN-2018 17:17
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	155_016	228223554016	MO_50	04-JUN-2018 17:17	S36946
L2	155_017	228223554017	MO_250	04-JUN-2018 17:45	S36948
L3	155_018	228223554018	MO_500	04-JUN-2018 18:14	S36949
L4	155_019	228223554019	MO_1000	04-JUN-2018 18:43	S36951
L5	155_020	228223554020	MO_2500	04-JUN-2018 19:11	S36926 (2X)
L6	155_021	228223554021	MO_5000	04-JUN-2018 19:39	S36926

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30602	29577	29573	29772	29932	28826	AVRG		3.37E-5		29714	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	3	250.00	0	500.00	0	1000.0	0	2500.0	1	5000.0	-3

CB1 06/05/18 : Corrected automatically drawn baseline in multiple levels.

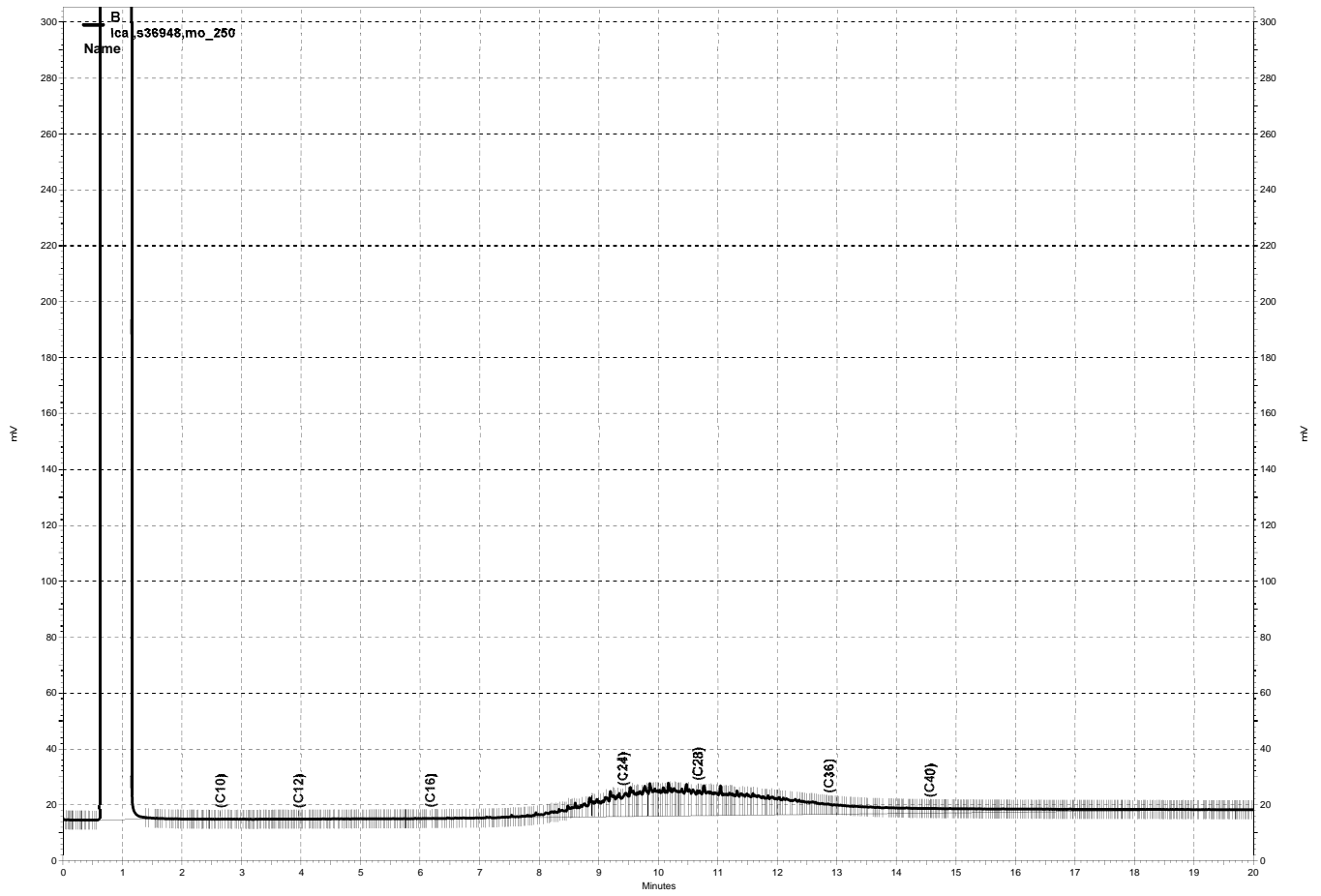
Analyst: CB1

Date: 06/05/18

Reviewer: EAH

Date: 06/05/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016, B

Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 5:17:21 PM
 Analysis Date: 6/5/2018 12:15:41 PM
 Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	9232	0.000 CAL
DSL:10-22	155952	0.000 CAL
DSL:10-24	422233	0.000 CAL
DSL:10-28	1076758	0.000 CAL
DSL:12-24	419621	0.000 CAL
DSL:12-28	1074146	0.000 CAL
DSL:16-24	413587	0.000 CAL
MO:22-32	1442034	50.000 CAL
MO:24-36	1530091	50.000 CAL
MO:28-40	1081117	50.000 CAL
BUNKC:10-40	2109403	0.000 CAL
BUNKC:12-40	2106791	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

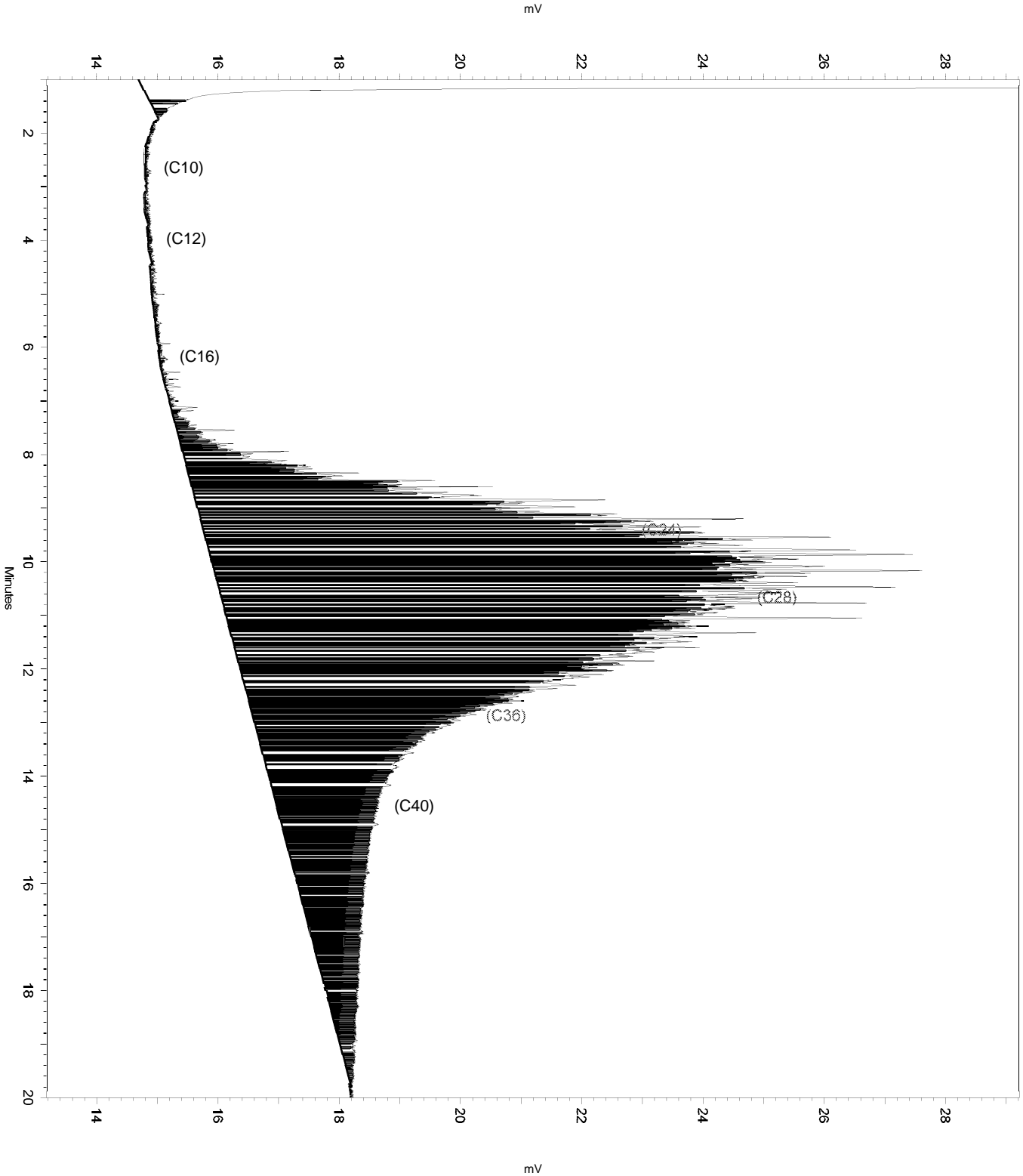
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        7.027     19.782   0
  
```

Sample Name: ical,s36946,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 5:17:21 PM
Analysis Date: 6/5/2018 12:15:41 PM
Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 5:17:21 PM
 Analysis Date: 6/5/2018 11:08:57 AM
 Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	9232	0.000 CAL
DSL:10-22	142580	0.000 CAL
DSL:10-24	396436	0.000 CAL
DSL:10-28	1019522	0.000 CAL
DSL:12-24	393824	0.000 CAL
DSL:12-28	1016910	0.000 CAL
DSL:16-24	387790	0.000 CAL
MO:22-32	1357836	50.000 CAL
MO:24-36	1408897	50.000 CAL
MO:28-40	896760	50.000 CAL
BUNKC:10-40	1870767	0.000 CAL
BUNKC:12-40	1868155	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

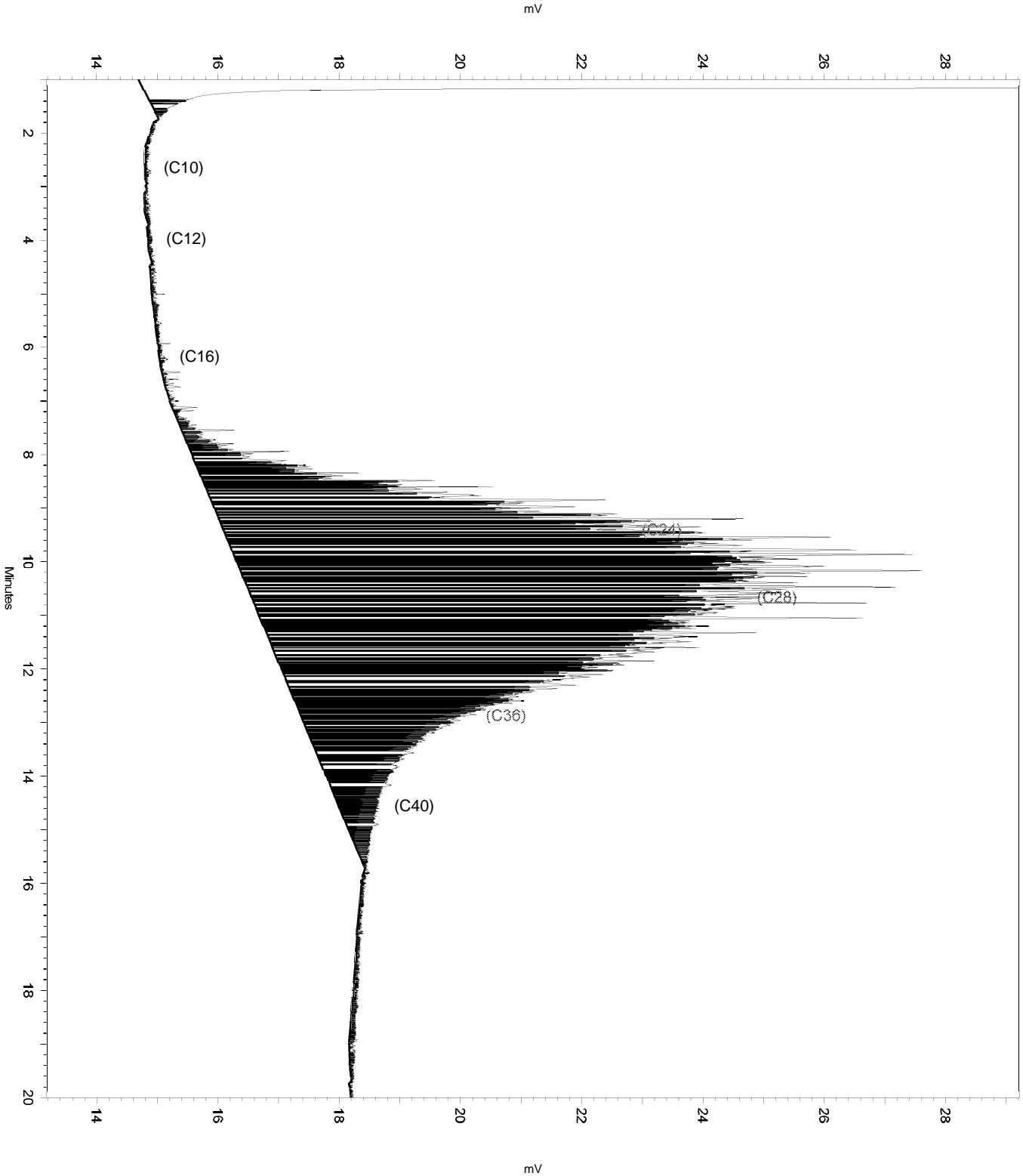
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

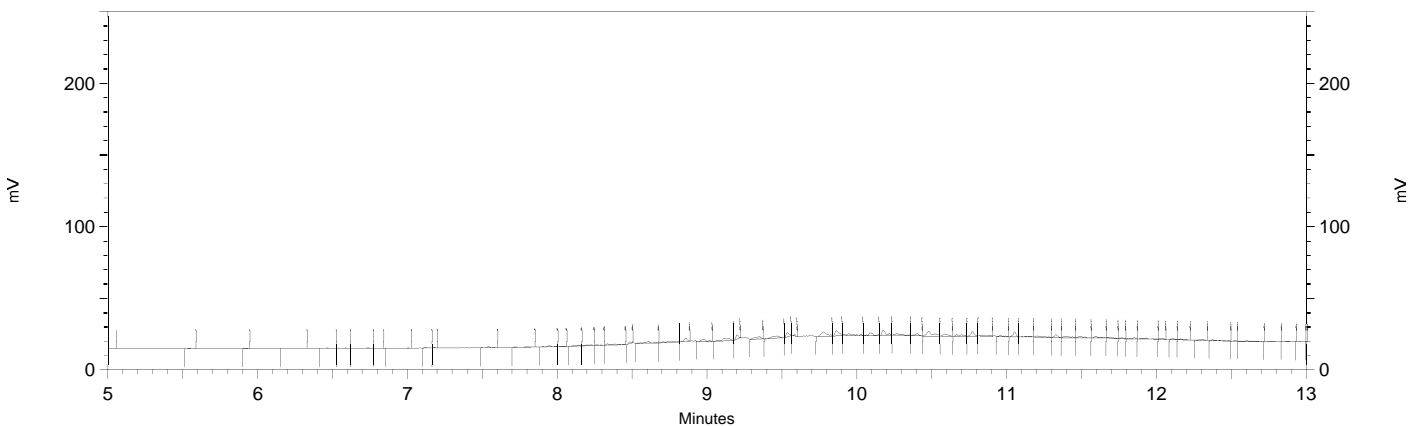
Sample Name: ical,s36946,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 5:17:21 PM
Analysis Date: 6/5/2018 11:08:57 AM
Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 5:17:21 PM
 Analysis Date: 6/5/2018 6:18:53 AM
 Instrument: GC14B Vial: 16 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	10.087	4415	0.093



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

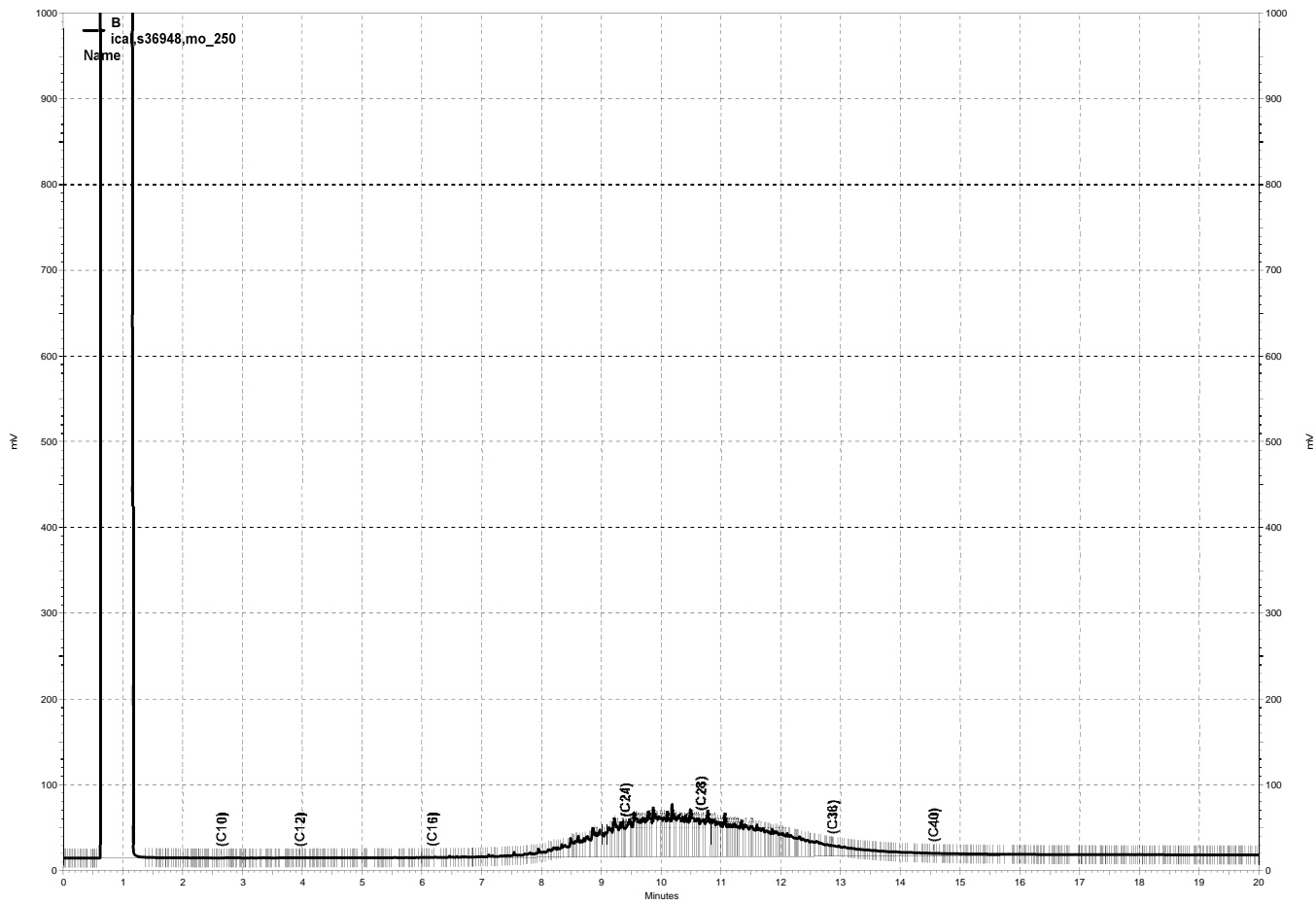
```

=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off      0          2     0
Yes Valley to Valley     0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b016
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
None
  
```

\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017, B

Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 5:45:55 PM
 Analysis Date: 6/5/2018 12:15:49 PM
 Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	18165	0.000 CAL
DSL:10-22	841680	0.000 CAL
DSL:10-24	2135428	0.000 CAL
DSL:10-28	5447867	0.000 CAL
DSL:12-24	2130312	0.000 CAL
DSL:12-28	5442751	0.000 CAL
DSL:16-24	2120562	0.000 CAL
MO:22-32	7159874	250.000 CAL
MO:24-36	7394310	250.000 CAL
MO:28-40	4629297	250.000 CAL
BUNKC:10-40	9705492	0.000 CAL
BUNKC:12-40	9700376	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

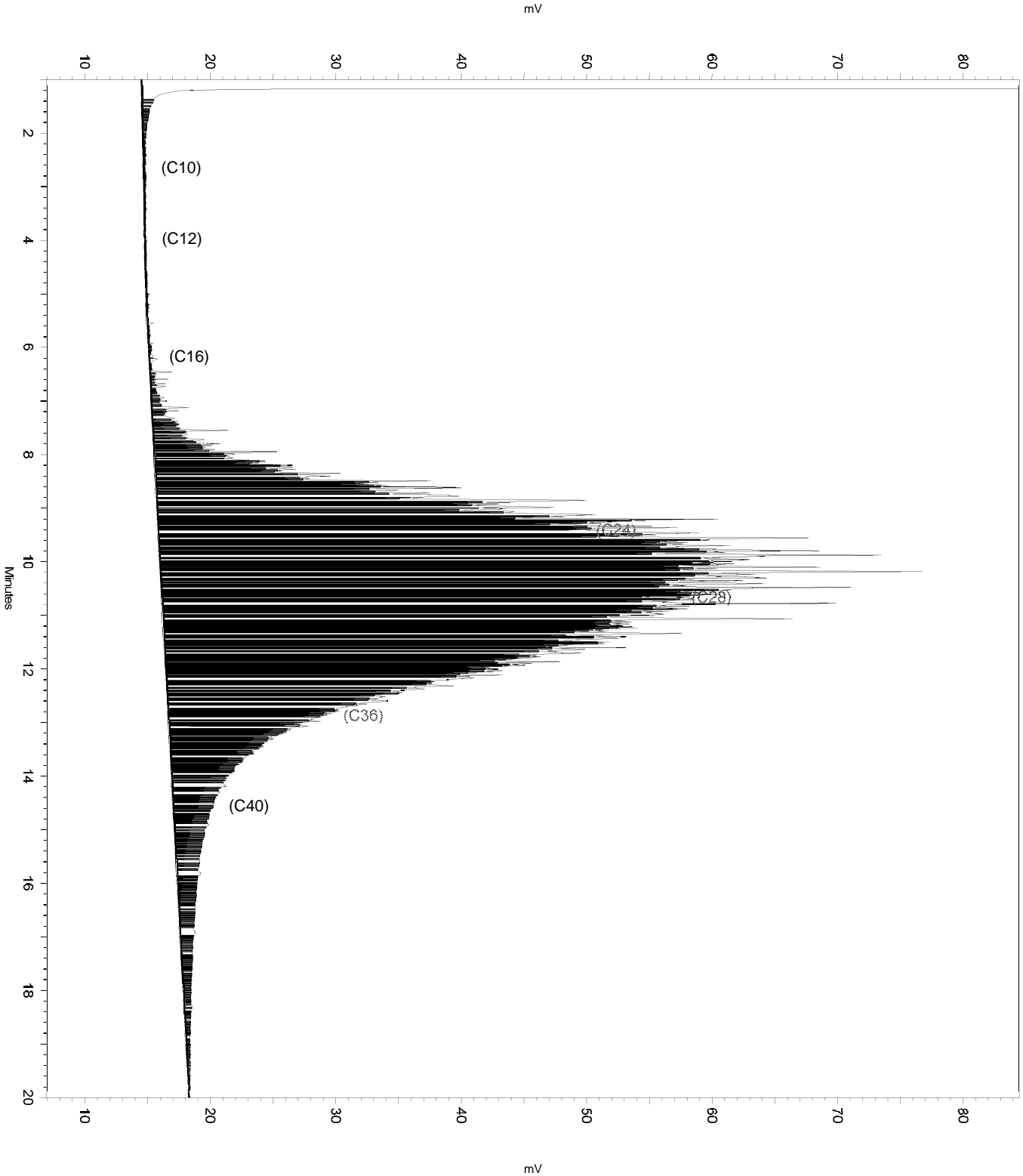
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop       5.94     19.727    0
  
```

Sample Name: ical,s36948,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 5:45:55 PM
Analysis Date: 6/5/2018 12:15:49 PM
Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 5:45:55 PM
 Analysis Date: 6/5/2018 11:20:46 AM
 Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	15837	0.000 CAL
DSL:10-22	768173	0.000 CAL
DSL:10-24	2020849	0.000 CAL
DSL:10-28	5233592	0.000 CAL
DSL:12-24	2015733	0.000 CAL
DSL:12-28	5228476	0.000 CAL
DSL:16-24	2007146	0.000 CAL
MO:22-32	6897216	250.000 CAL
MO:24-36	7028516	250.000 CAL
MO:28-40	4102788	250.000 CAL
BUNKC:10-40	8978290	0.000 CAL
BUNKC:12-40	8973174	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

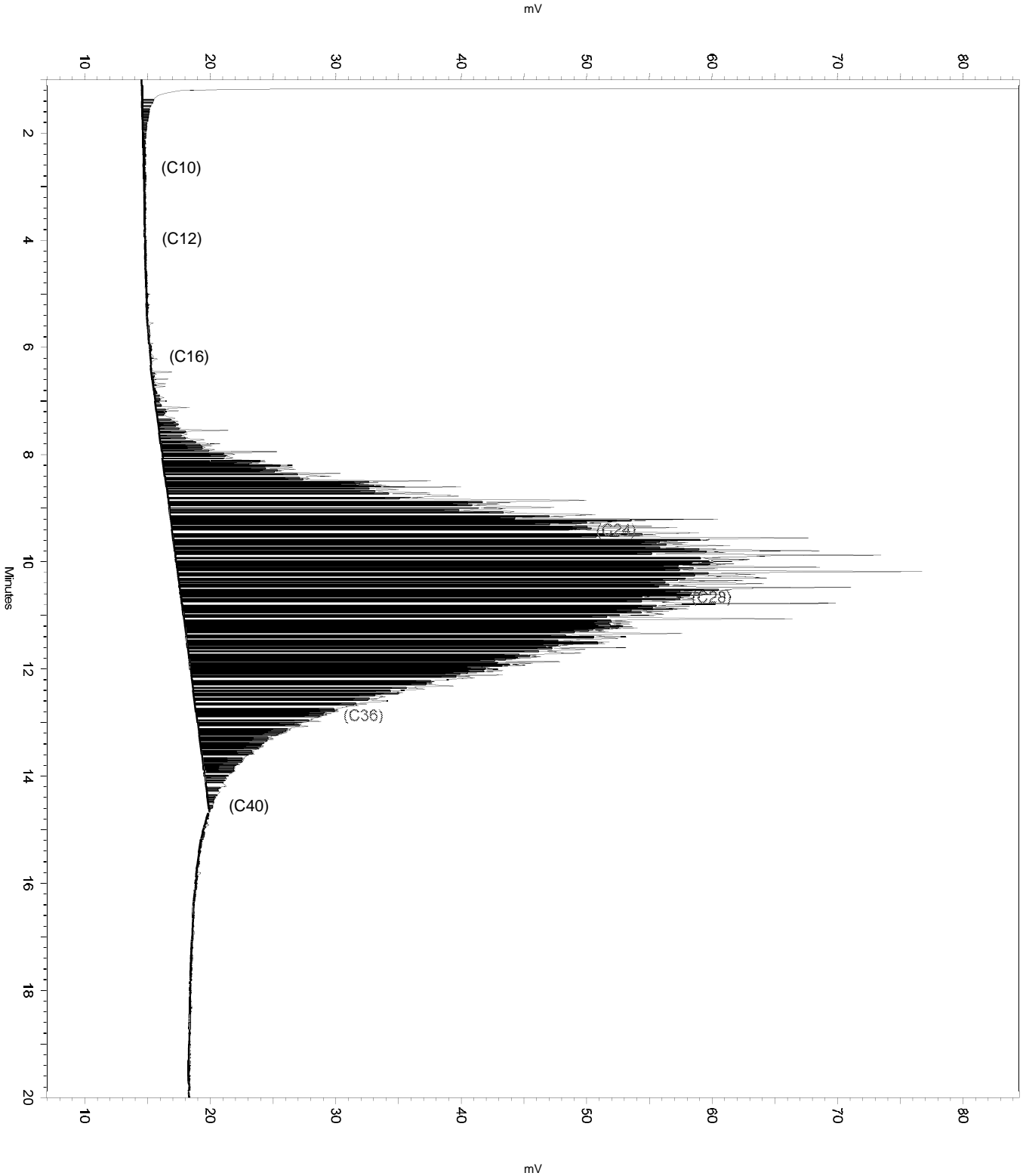
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

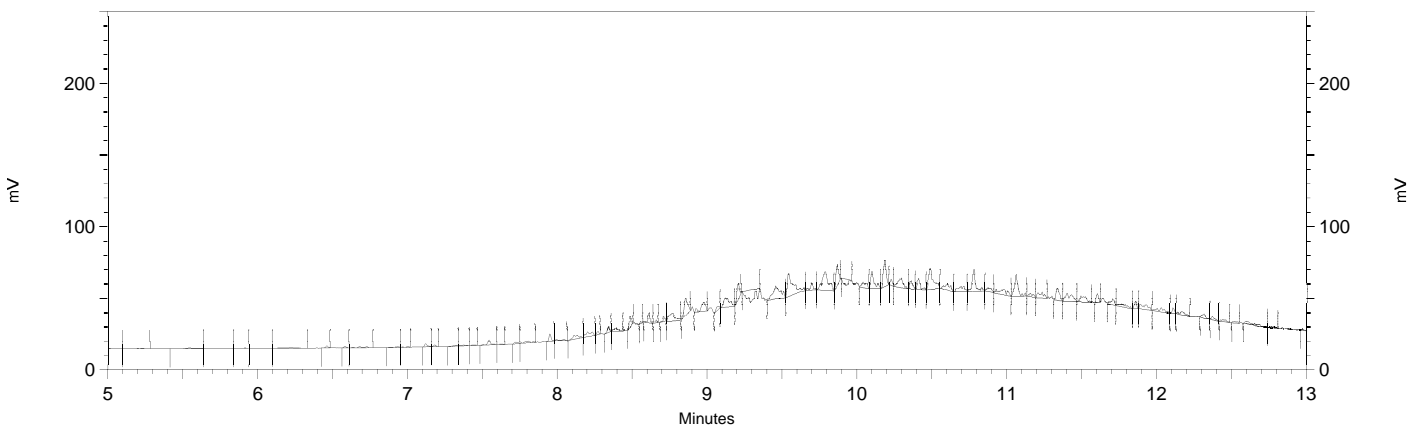
Sample Name: ical,s36948,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 5:45:55 PM
Analysis Date: 6/5/2018 11:20:46 AM
Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 5:45:55 PM
 Analysis Date: 6/5/2018 6:18:59 AM
 Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst: (lms2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.320	1104	0.021
Hexacosane	10.102	18014	0.378



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

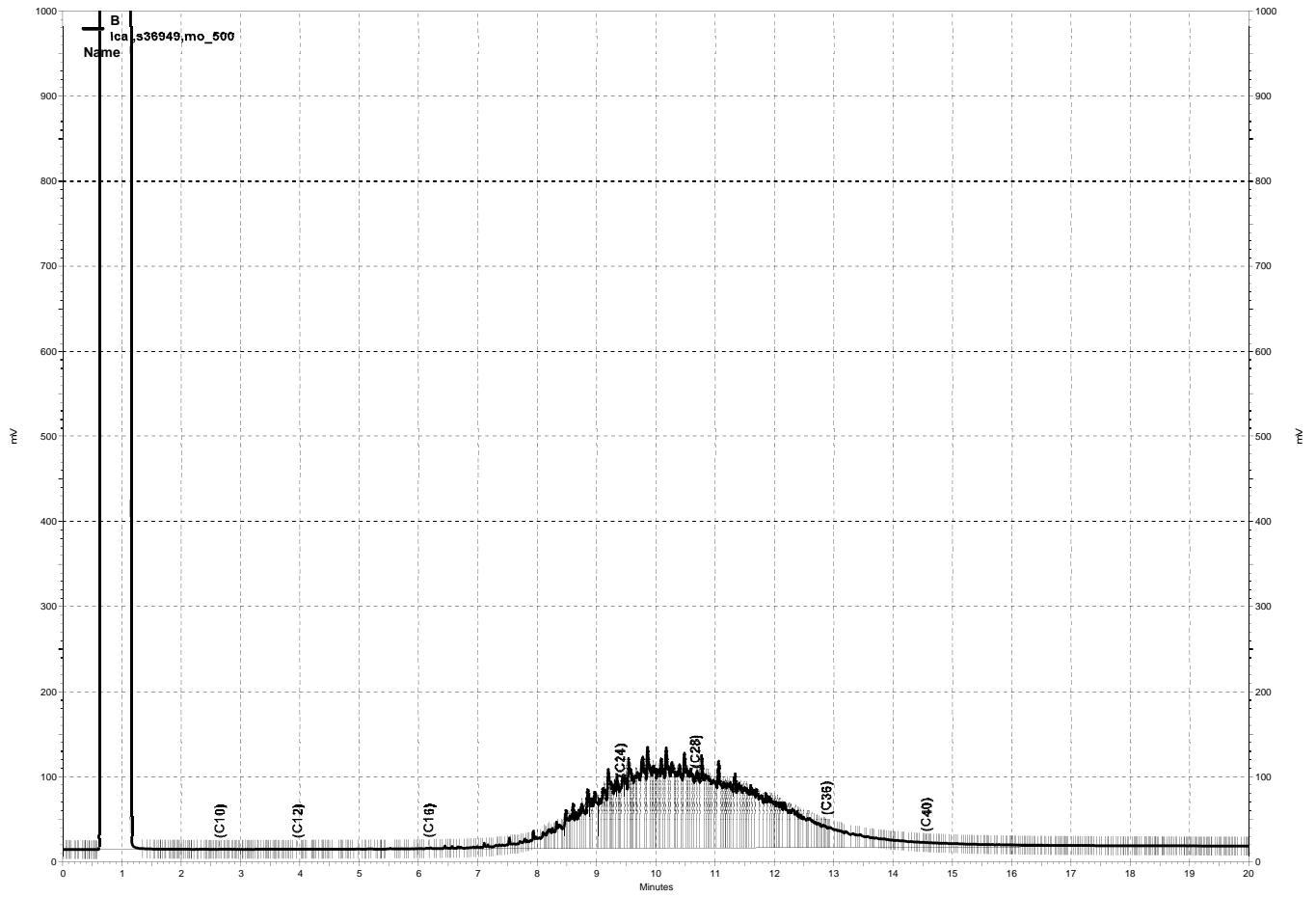
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold           0       0   100
Yes Integration Off     0       2     0
Yes Valley to Valley    0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b017
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018, B

Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 6:14:23 PM
 Analysis Date: 6/5/2018 12:15:56 PM
 Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	24157	0.000 CAL
DSL:10-22	1741563	0.000 CAL
DSL:10-24	4358947	0.000 CAL
DSL:10-28	11148433	0.000 CAL
DSL:12-24	4355960	0.000 CAL
DSL:12-28	11145446	0.000 CAL
DSL:16-24	4341868	0.000 CAL
MO:22-32	14487602	500.000 CAL
MO:24-36	14786579	500.000 CAL
MO:28-40	9354536	500.000 CAL
BUNKC:10-40	19664700	0.000 CAL
BUNKC:12-40	19661716	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

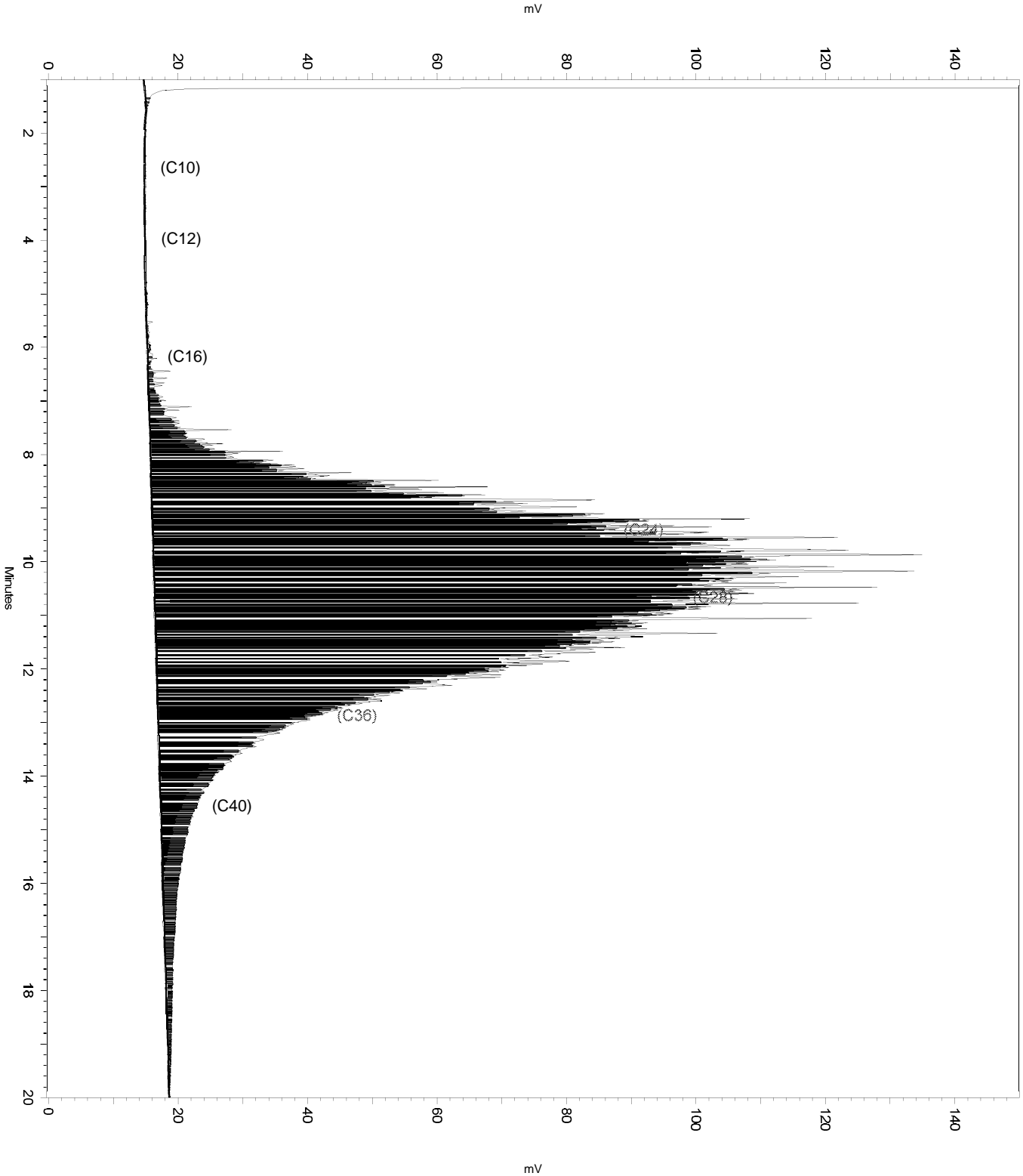
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop      2.27       0      0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

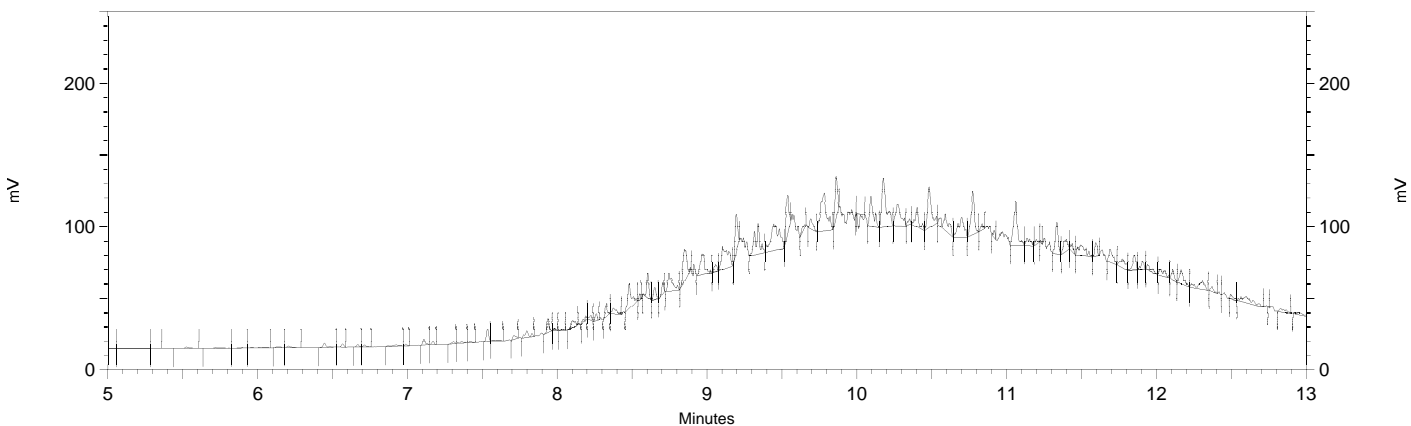

Sample Name: ical,s36949,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 6:14:23 PM
Analysis Date: 6/5/2018 12:15:56 PM
Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 6:14:23 PM
 Analysis Date: 6/5/2018 6:19:05 AM
 Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.362	2035	0.038
Hexacosane	10.093	37124	0.780



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

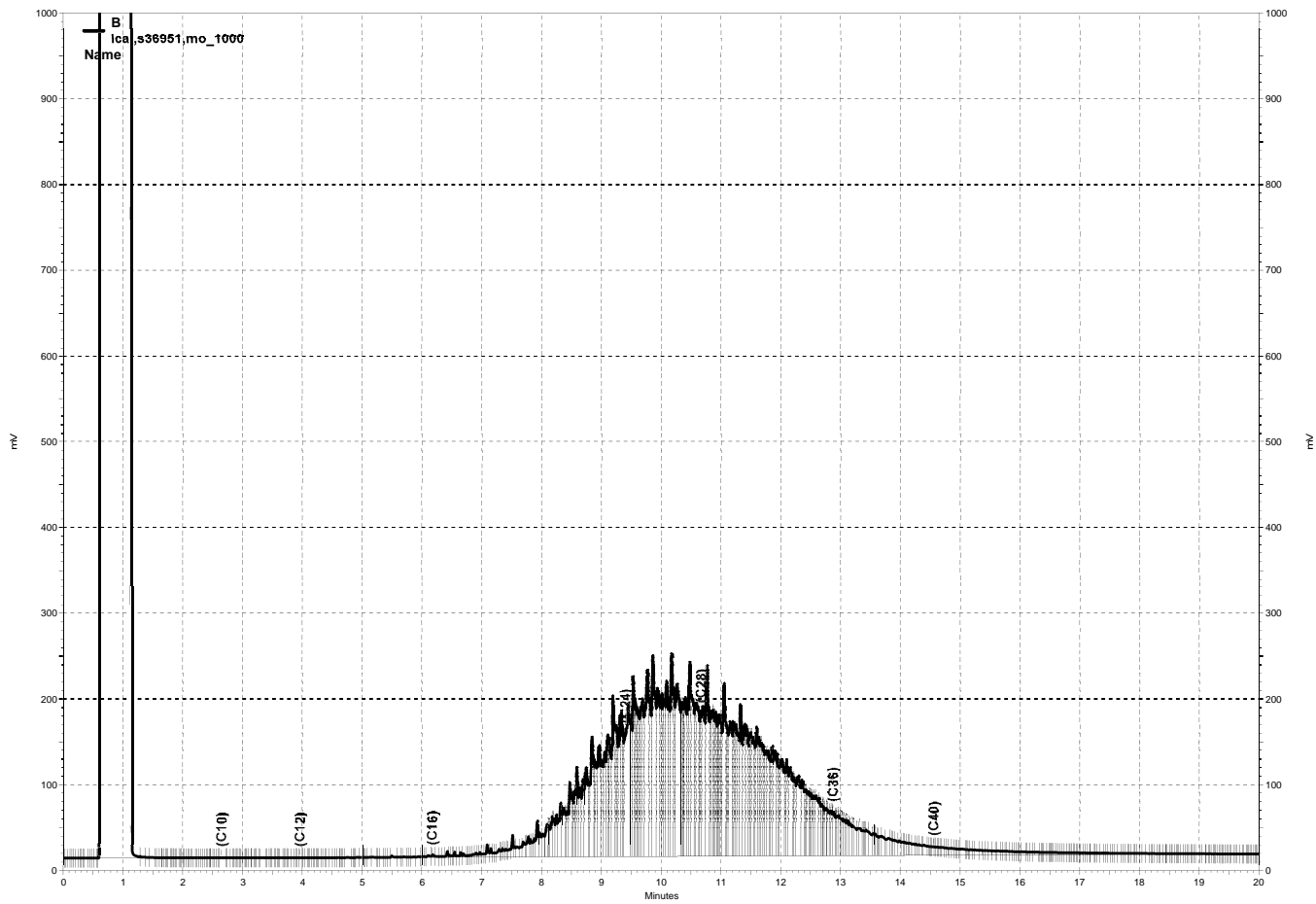
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b018
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019, B

Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 6:43:03 PM
 Analysis Date: 6/5/2018 12:16:03 PM
 Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	53946	0.000 CAL
DSL:10-22	3534533	0.000 CAL
DSL:10-24	9078625	0.000 CAL
DSL:10-28	22422824	0.000 CAL
DSL:12-24	9075008	0.000 CAL
DSL:12-28	22419208	0.000 CAL
DSL:16-24	9043366	0.000 CAL
MO:22-32	29370576	1000.000 CAL
MO:24-36	29772452	1000.000 CAL
MO:28-40	18770784	1000.000 CAL
BUNKC:10-40	39608420	0.000 CAL
BUNKC:12-40	39604804	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

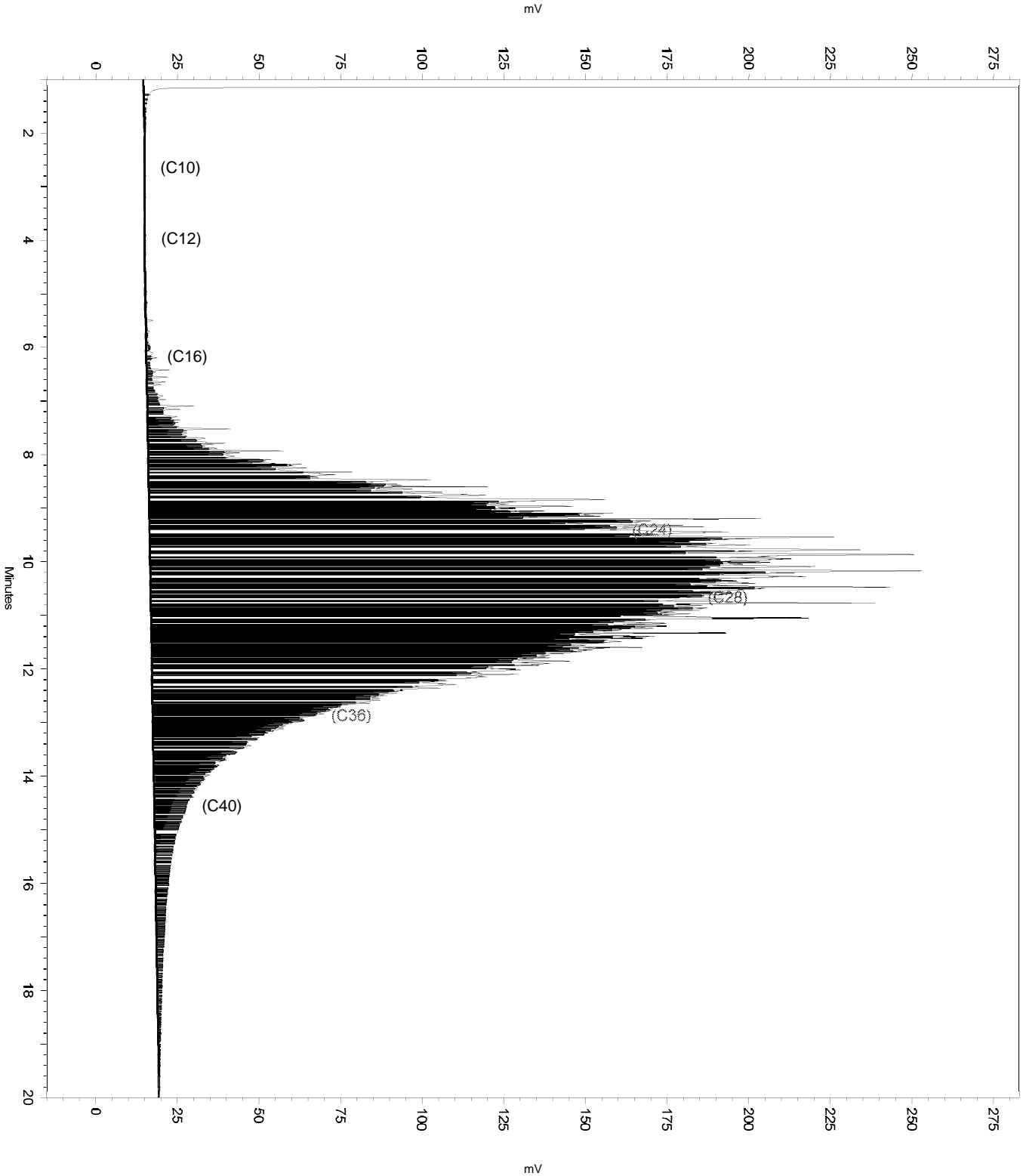
=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Move BL Stop        5.385     19.866   0
  
```

Sample Name: ical,s36951,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 6:43:03 PM
Analysis Date: 6/5/2018 12:16:03 PM
Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 6:43:03 PM
 Analysis Date: 6/5/2018 11:26:28 AM
 Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	35326	0.000 CAL
DSL:10-22	674215	0.000 CAL
DSL:10-24	1513475	0.000 CAL
DSL:10-28	4364998	0.000 CAL
DSL:12-24	1509858	0.000 CAL
DSL:12-28	4361381	0.000 CAL
DSL:16-24	1488976	0.000 CAL
MO:22-32	6786916	1000.000 CAL
MO:24-36	7205556	1000.000 CAL
MO:28-40	4754780	1000.000 CAL
BUNKC:10-40	8700792	0.000 CAL
BUNKC:12-40	8697175	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

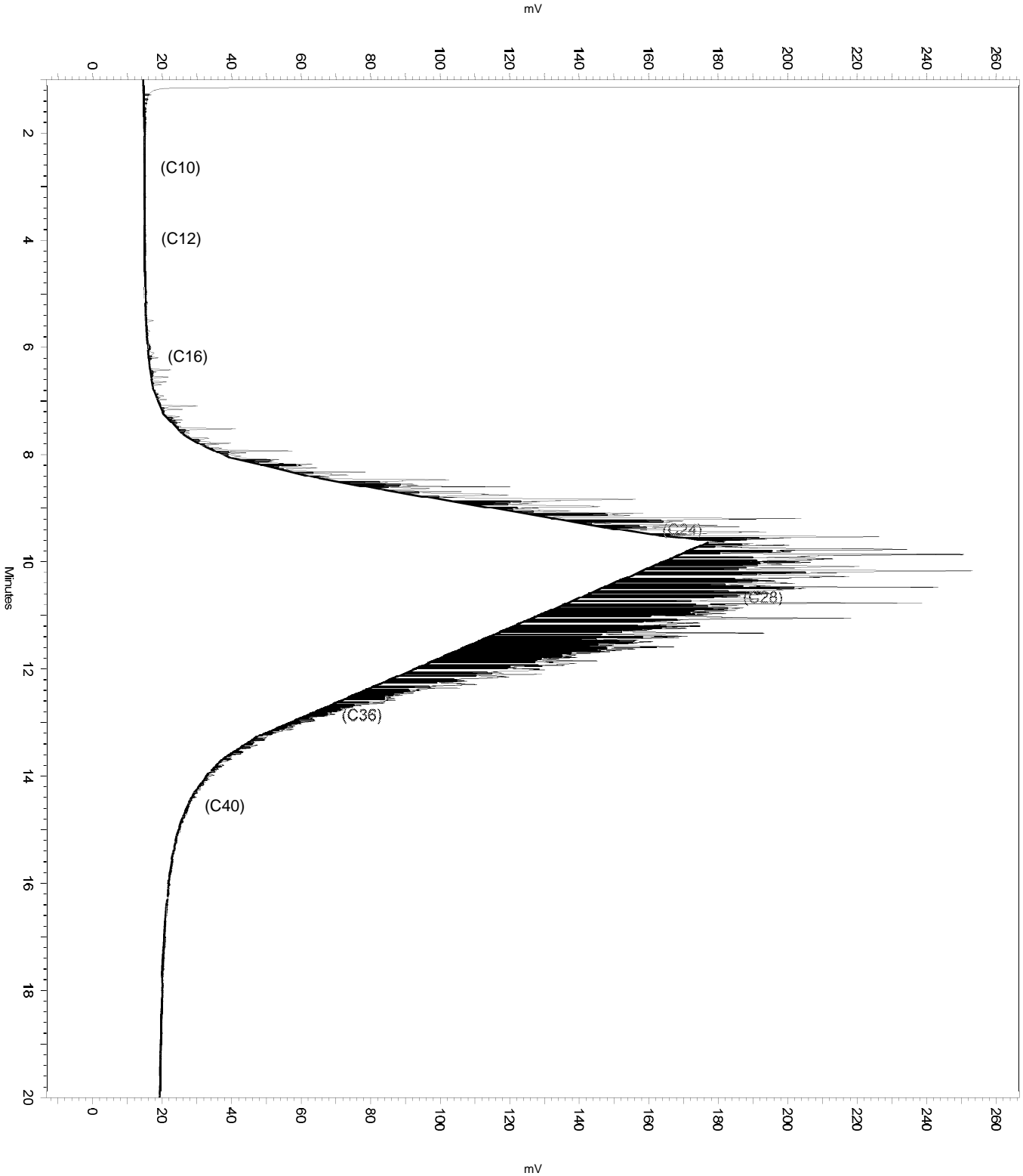
=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0     0
Yes Threshold            0       0    10
Yes Force Peak Stop     2.27    0     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

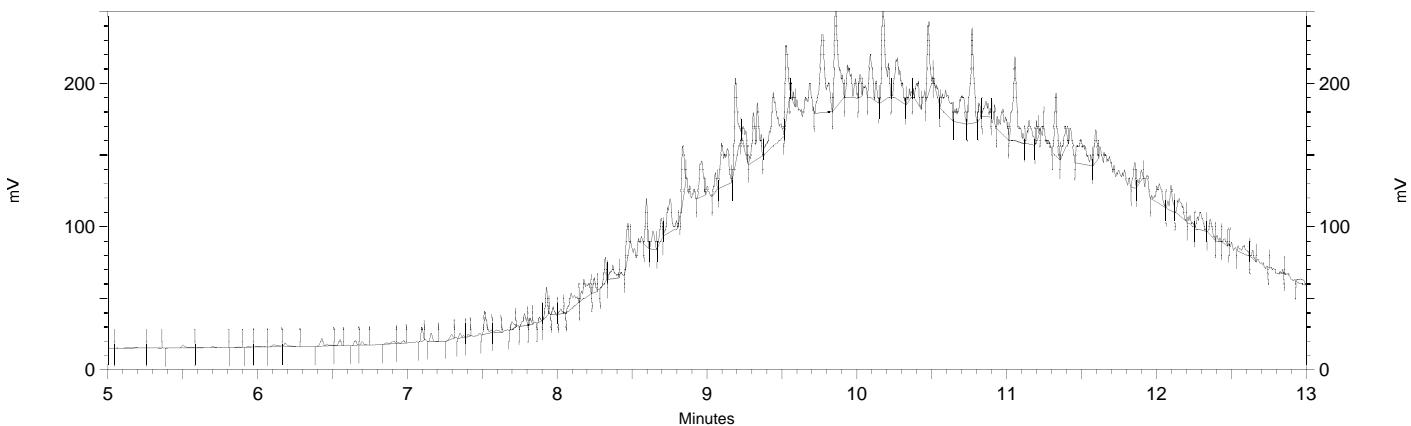
Sample Name: ical,s36951,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 6:43:03 PM
Analysis Date: 6/5/2018 11:26:28 AM
Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 6:43:03 PM
 Analysis Date: 6/5/2018 6:19:11 AM
 Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.347	4060	0.076
Hexacosane	10.092	60577	1.272



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

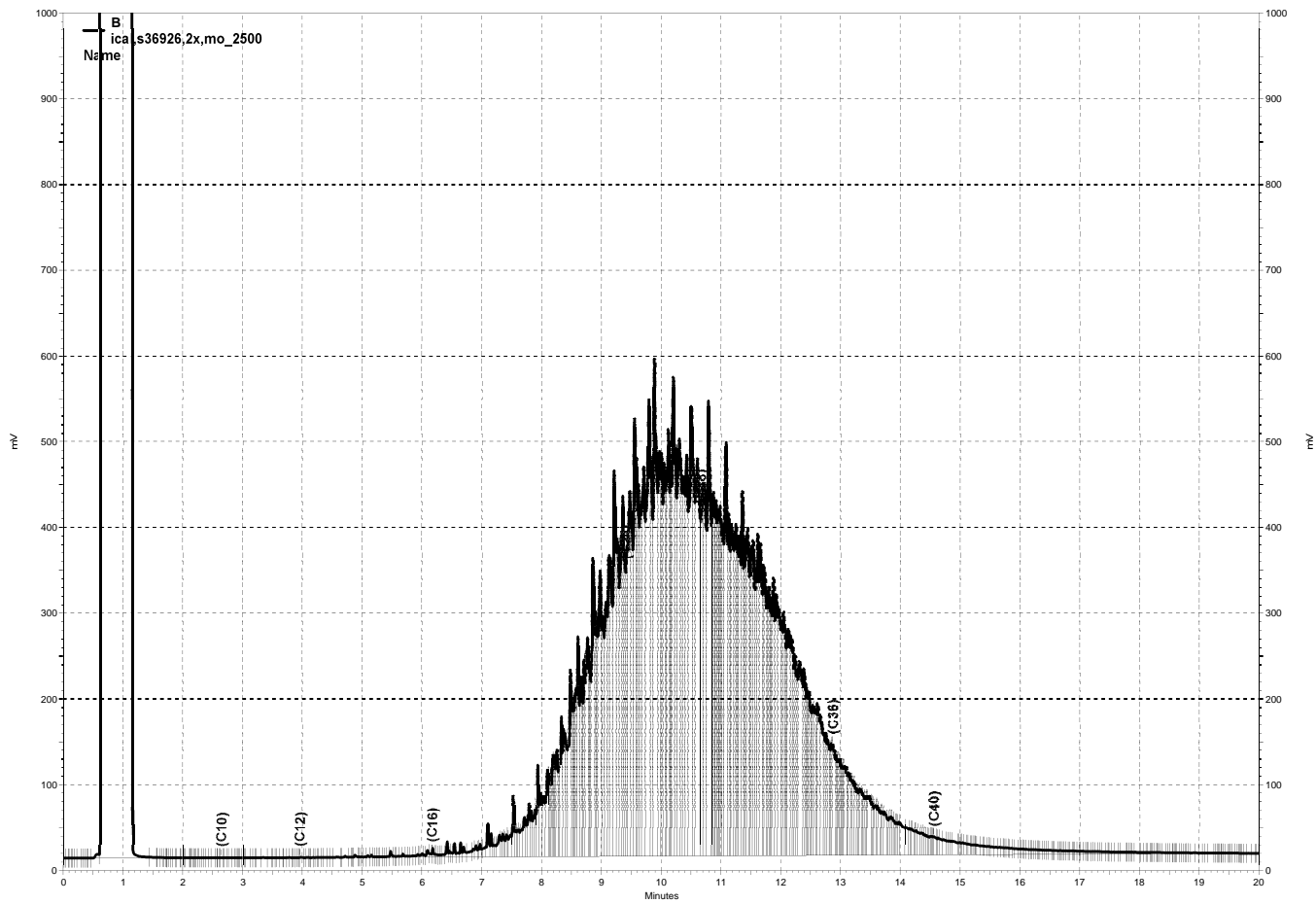
```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020, B

Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 7:11:29 PM
 Analysis Date: 6/5/2018 12:16:09 PM
 Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	167307	0.000 CAL
DSL:10-22	9140323	0.000 CAL
DSL:10-24	22657598	0.000 CAL
DSL:10-28	55946296	0.000 CAL
DSL:12-24	22651702	0.000 CAL
DSL:12-28	55940400	0.000 CAL
DSL:16-24	22526546	0.000 CAL
MO:22-32	72824568	2500.000 CAL
MO:24-36	74829808	2500.000 CAL
MO:28-40	47259760	2500.000 CAL
BUNKC:10-40	98508376	0.000 CAL
BUNKC:12-40	98502488	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

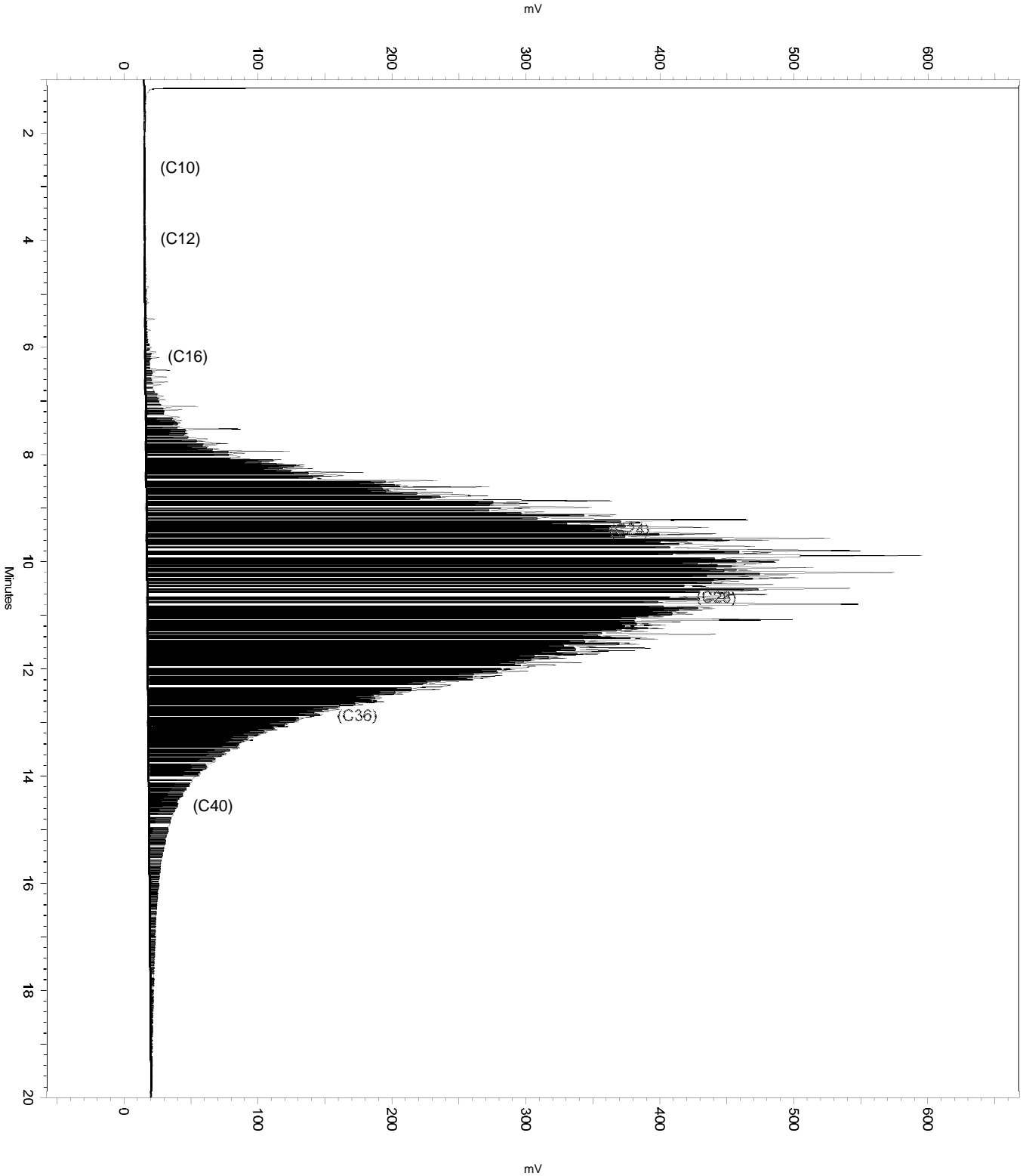
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

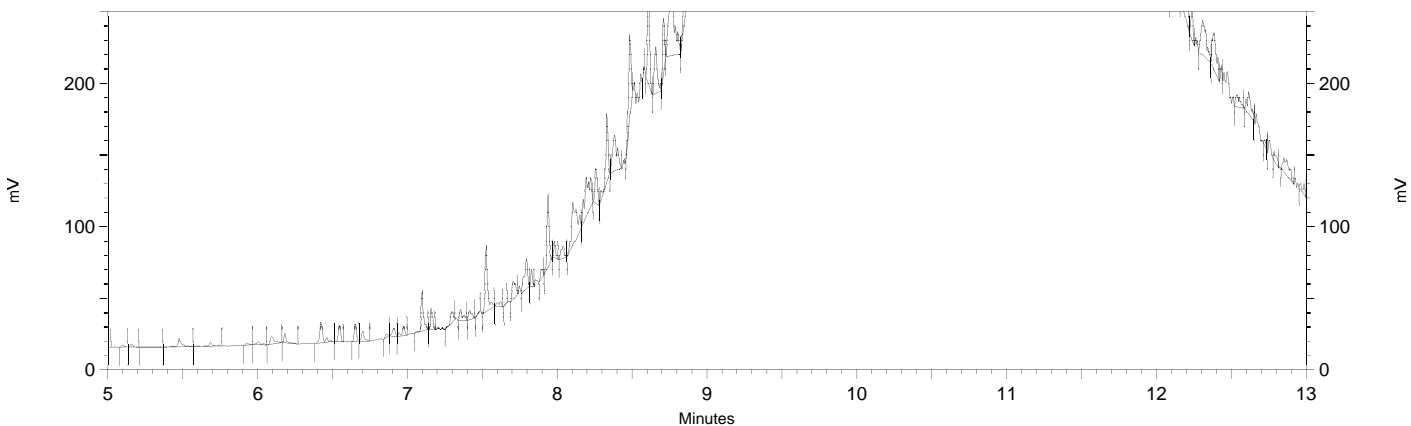
Sample Name: ical,s36926,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 7:11:29 PM
Analysis Date: 6/5/2018 12:16:09 PM
Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 7:11:29 PM
 Analysis Date: 6/5/2018 6:19:17 AM
 Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst: (lms2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.355	12214	0.230
Hexacosane	10.117	121690	2.556



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

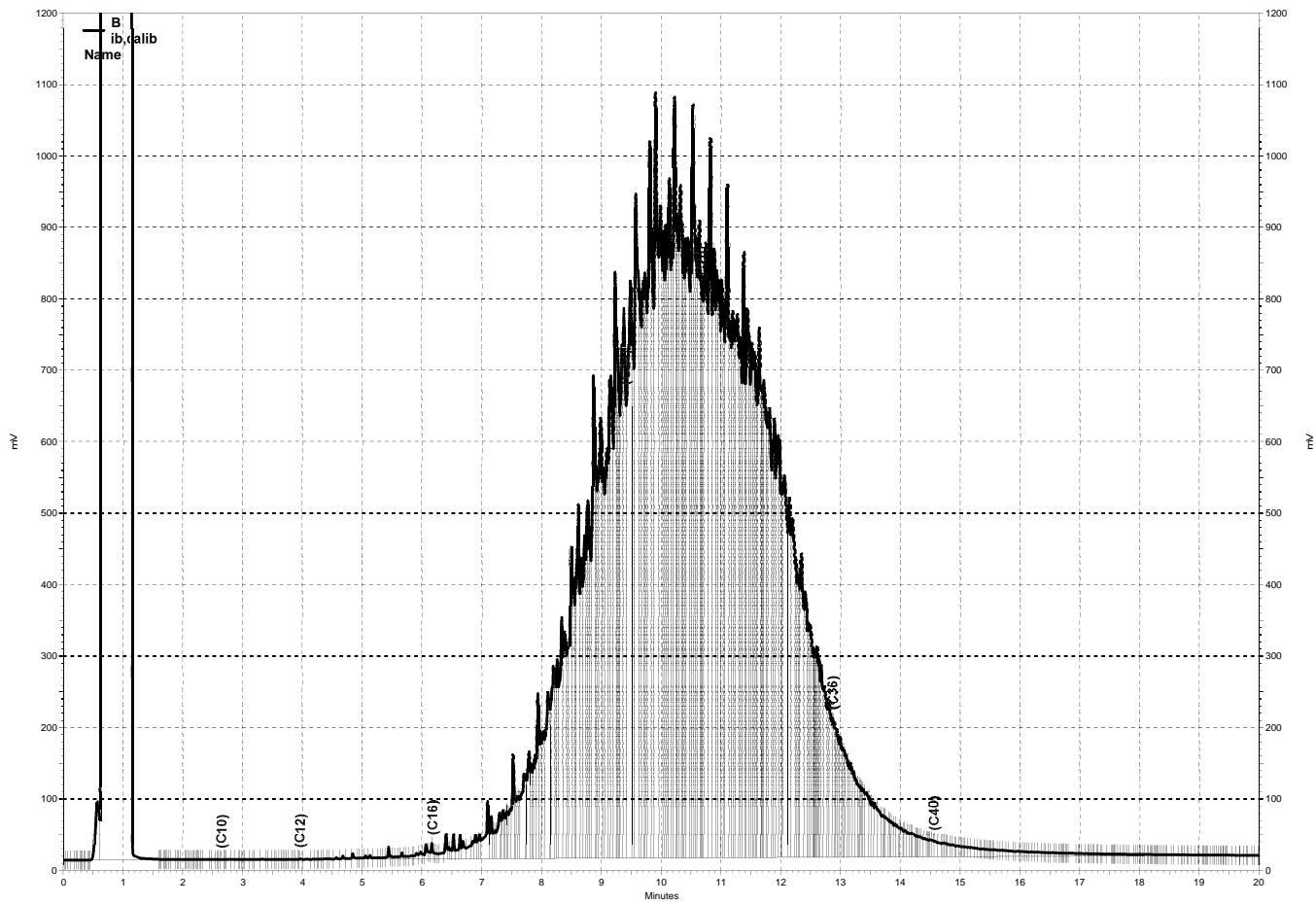
```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b020				
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021, B

Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 7:39:45 PM
 Analysis Date: 6/5/2018 12:16:16 PM
 Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	451077	0.000 CAL
DSL:10-22	20712352	0.000 CAL
DSL:10-24	43849408	0.000 CAL
DSL:10-28	112698432	0.000 CAL
DSL:12-24	43838096	0.000 CAL
DSL:12-28	112687120	0.000 CAL
DSL:16-24	43489680	0.000 CAL
MO:22-32	141955904	5000.000 CAL
MO:24-36	144132336	5000.000 CAL
MO:28-40	86378872	5000.000 CAL
BUNKC:10-40	190243840	0.000 CAL
BUNKC:12-40	190232544	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

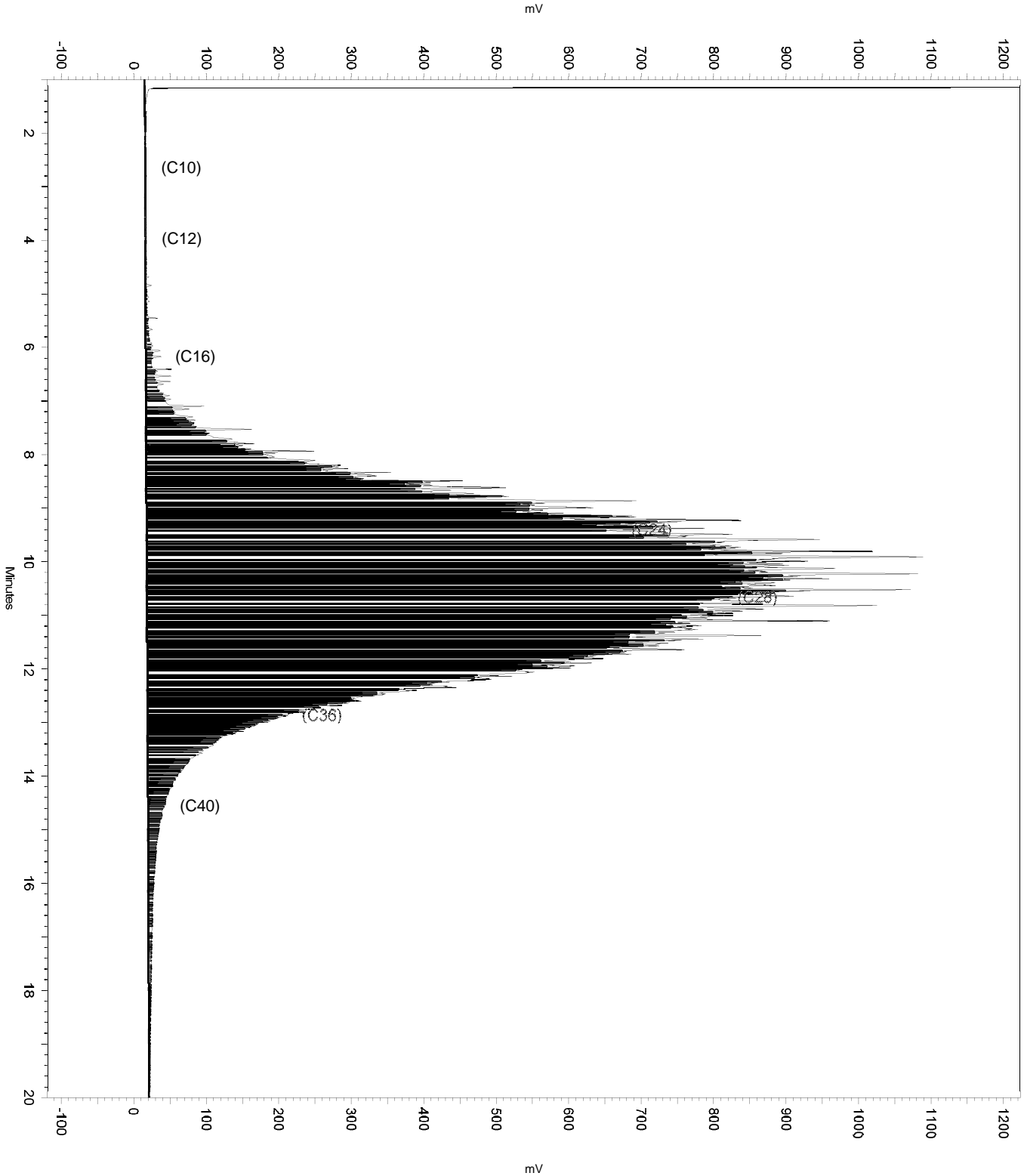
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop       19.47     19.92    0
  
```

Sample Name: ical,s36926,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 7:39:45 PM
Analysis Date: 6/5/2018 12:16:16 PM
Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
 Run Date: 6/4/2018 7:39:45 PM
 Analysis Date: 6/5/2018 12:13:11 PM
 Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	447092	0.000 CAL
DSL:10-22	20694438	0.000 CAL
DSL:10-24	43826324	0.000 CAL
DSL:10-28	112662240	0.000 CAL
DSL:12-24	43815012	0.000 CAL
DSL:12-28	112650928	0.000 CAL
DSL:16-24	43470052	0.000 CAL
MO:22-32	141924400	5000.000 CAL
MO:24-36	144091504	5000.000 CAL
MO:28-40	86324216	5000.000 CAL
BUNKC:10-40	190154928	0.000 CAL
BUNKC:12-40	190143632	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

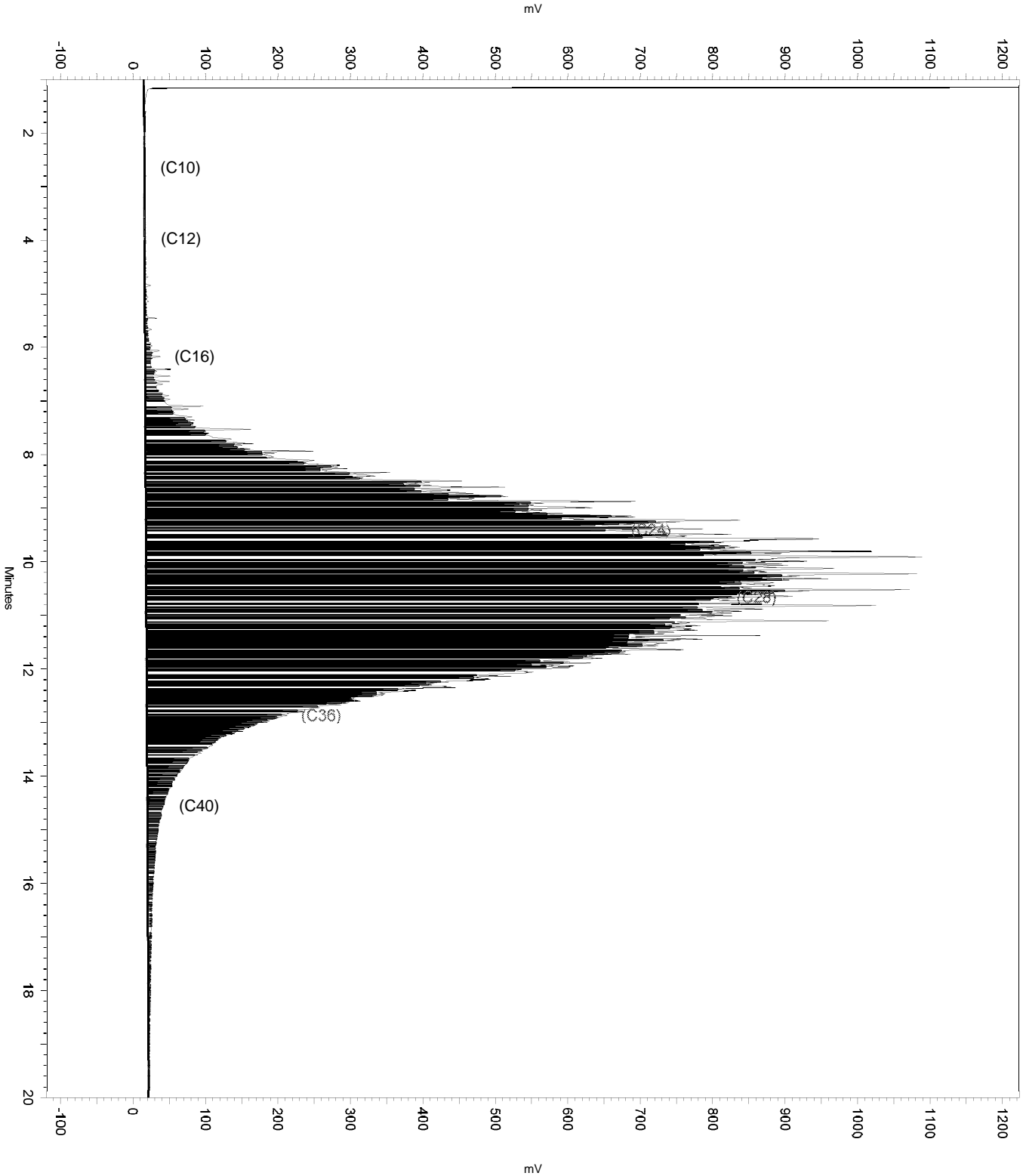
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold           0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

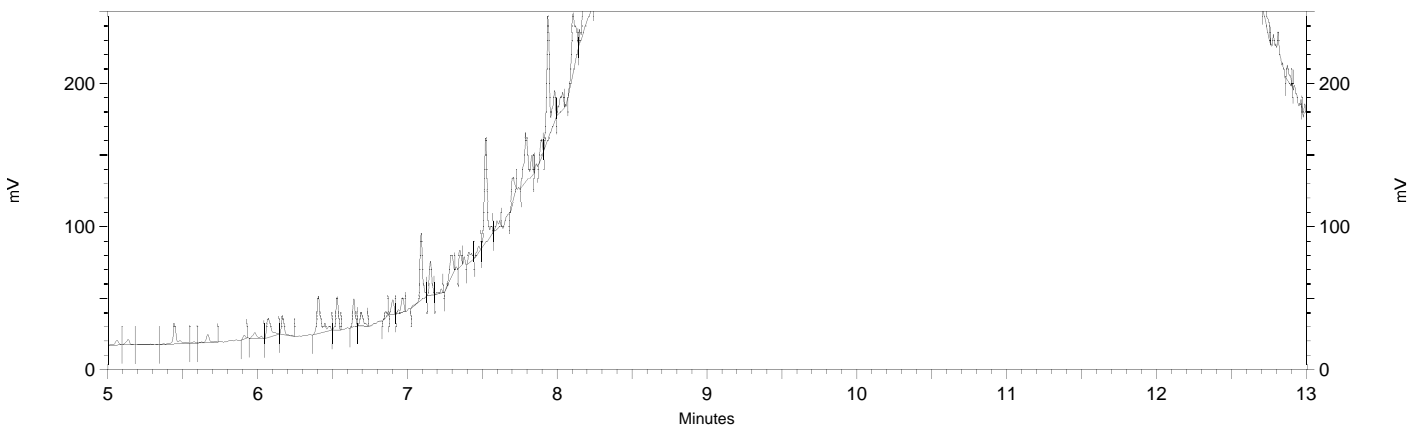

Sample Name: ical,s36926,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bTEH155.met
Run Date: 6/4/2018 7:39:45 PM
Analysis Date: 6/5/2018 12:13:11 PM
Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\155.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr149.met
 Run Date: 6/4/2018 7:39:45 PM
 Analysis Date: 6/5/2018 6:19:23 AM
 Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.348	11902	0.224
Hexacosane	10.073	59233	1.244



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\155b021
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 228263897001
 Units : mg/L

Name : HEXOTP_183
 Date : 03-JUL-2018 00:37
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	183_033	228263897033	HEX OTP_2.5	03-JUL-2018 00:37	S36499 (2X)
L2	183_034	228263897034	HEX OTP_5	03-JUL-2018 01:06	S36499
L3	183_035	228263897035	HEX OTP_10	03-JUL-2018 01:34	S36500
L4	183_036	228263897036	HEX OTP_25	03-JUL-2018 02:03	S36501
L5	183_037	228263897037	HEX OTP_50	03-JUL-2018 02:31	S36502
L6	183_038	228263897038	HEX OTP_100	03-JUL-2018 03:00	S36503

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	56266	54969	58095	56045	53979	52579	AVRG		1.81E-5		55322	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	2	5.0000	-1	10.000	5	25.000	1	50.000	-2	100.00	-5

WA1 07/03/18 : Corrected automatically drawn baseline in all levels.

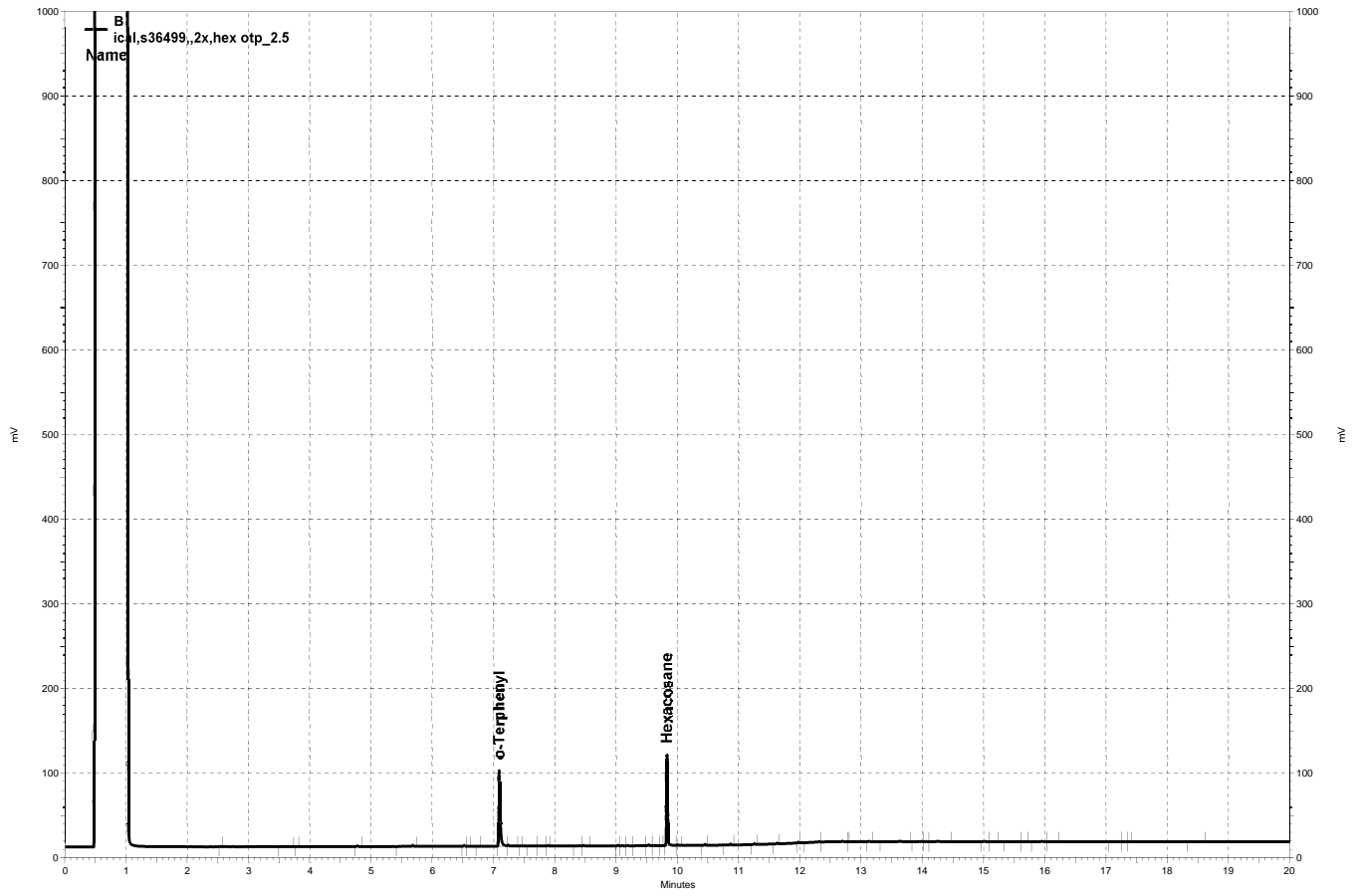
Analyst: WA1

Date: 07/03/18

Reviewer: TKM

Date: 07/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

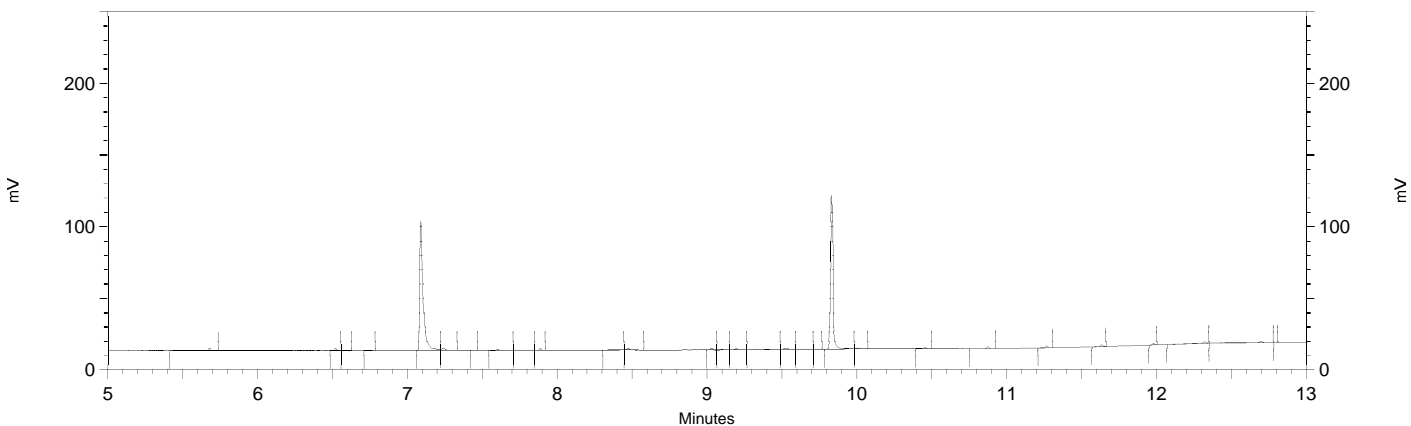


\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b033, B

Sample Name: ical,s36499,,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b033
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 12:37:59 AM
 Analysis Date: 7/3/2018 10:57:43 AM
 Instrument: GC14B Vial: 33 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.092	140665	2.547
Hexacosane	9.830	127194	2.546



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

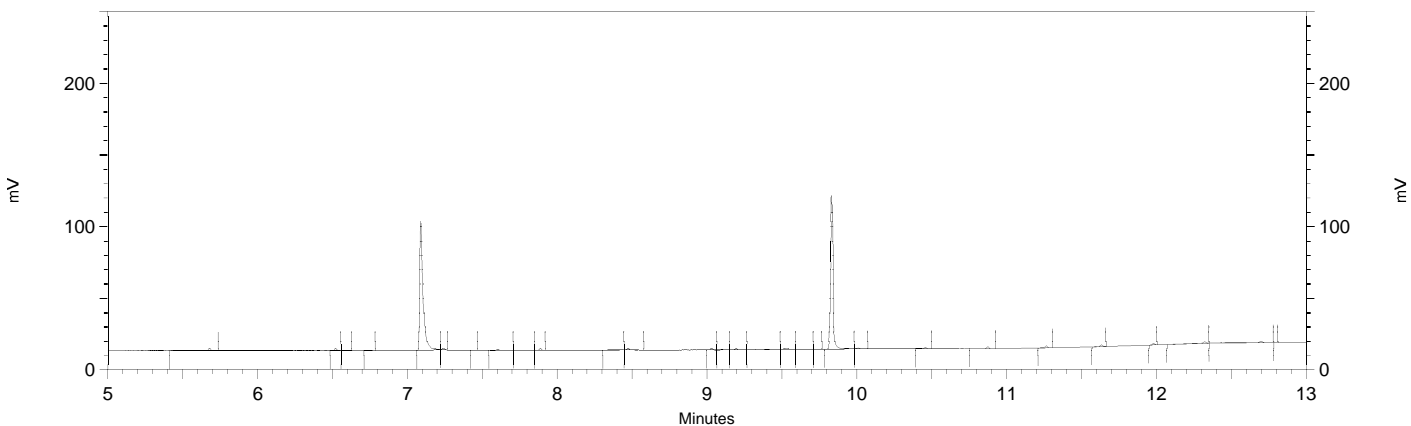
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b033
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Manual Baseline     7.06      7.332     0
  
```

Sample Name: ical,s36499,,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b033
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 12:37:59 AM
 Analysis Date: 7/3/2018 10:57:33 AM
 Instrument: GC14B Vial: 33 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.092	138988	2.500 CAL
Hexacosane	9.830	127194	2.500 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

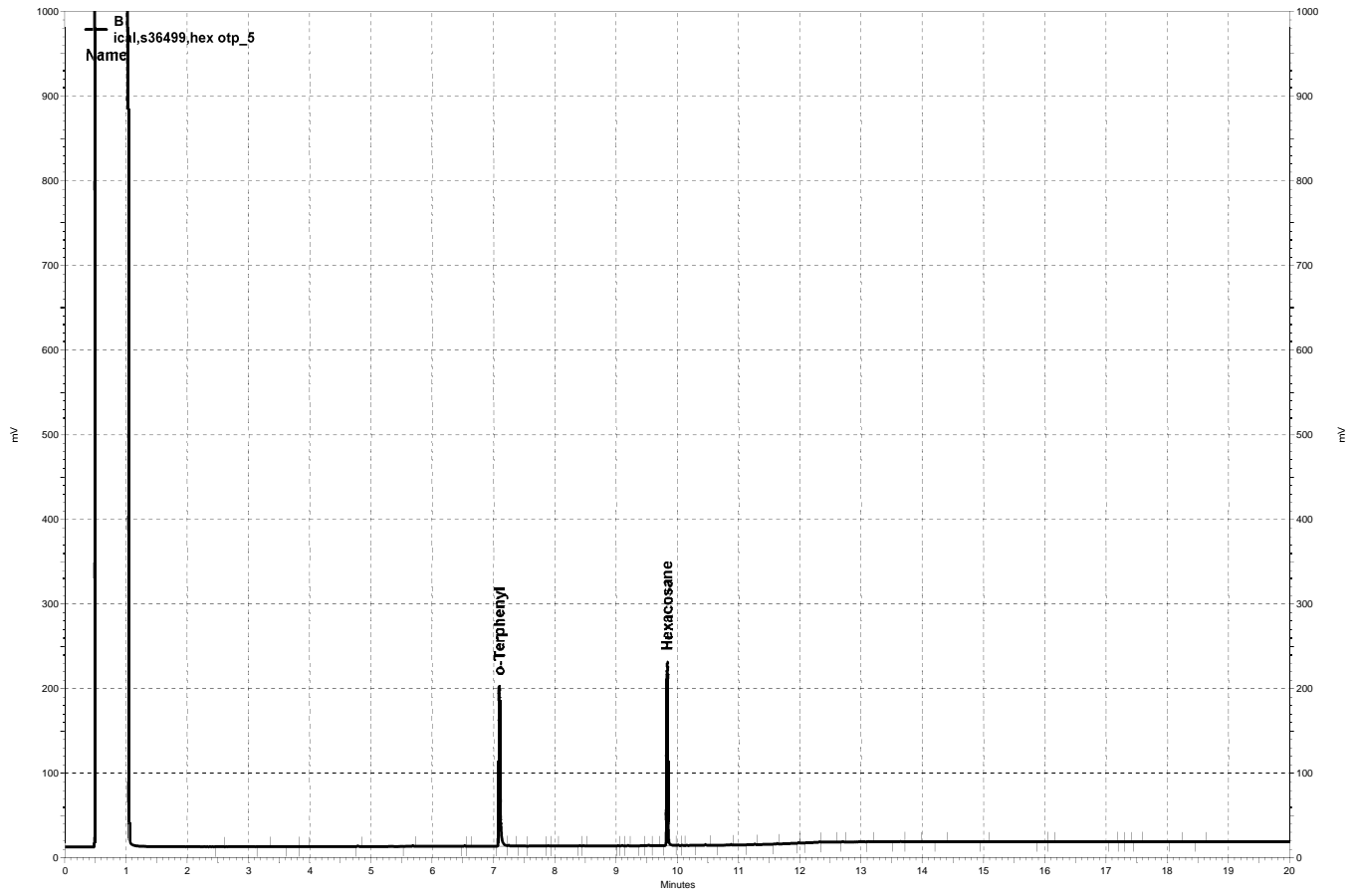
```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

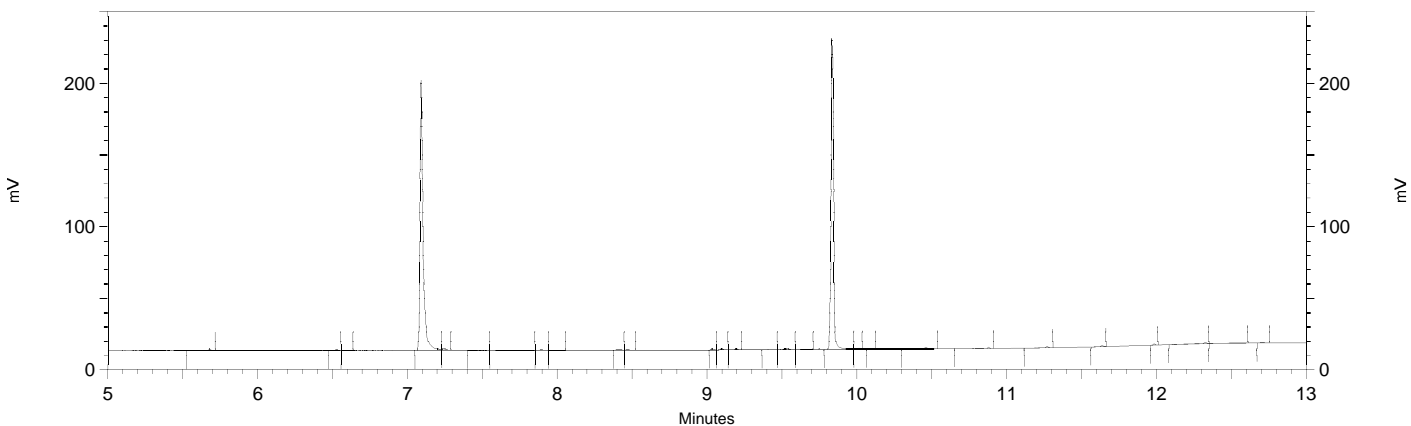


\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b034, B

Sample Name: ical,s36499,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b034
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 1:06:31 AM
 Analysis Date: 7/3/2018 10:58:19 AM
 Instrument: GC14B Vial: 34 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.093	274847	4.976
Hexacosane	9.835	249057	4.986



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

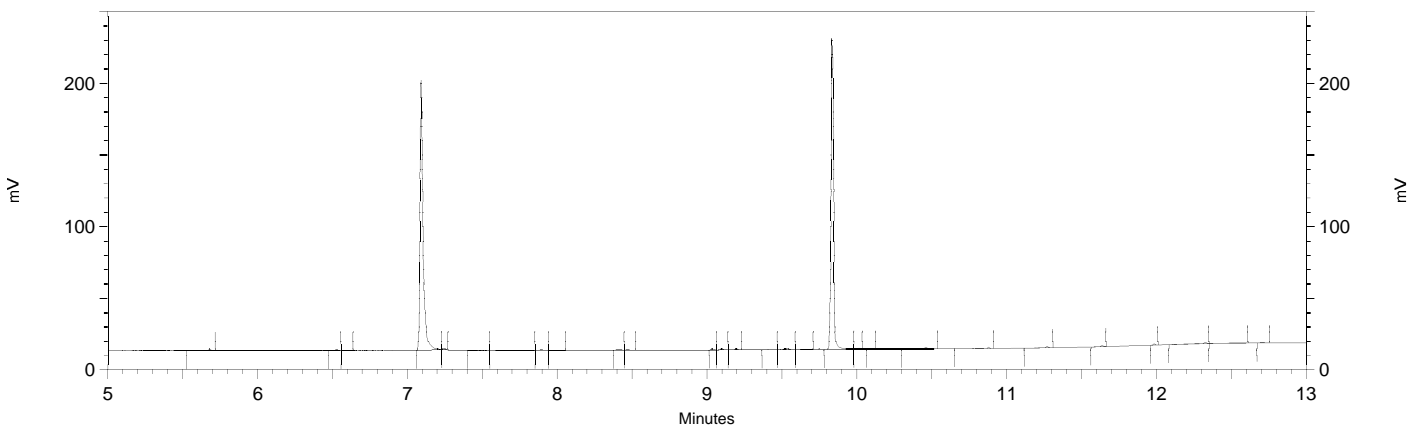
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b034

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	7.05	7.291	0

Sample Name: ical,s36499,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b034
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 1:06:31 AM
 Analysis Date: 7/3/2018 10:58:10 AM
 Instrument: GC14B Vial: 34 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.093	273051	4.943
Hexacosane	9.835	249057	4.986



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

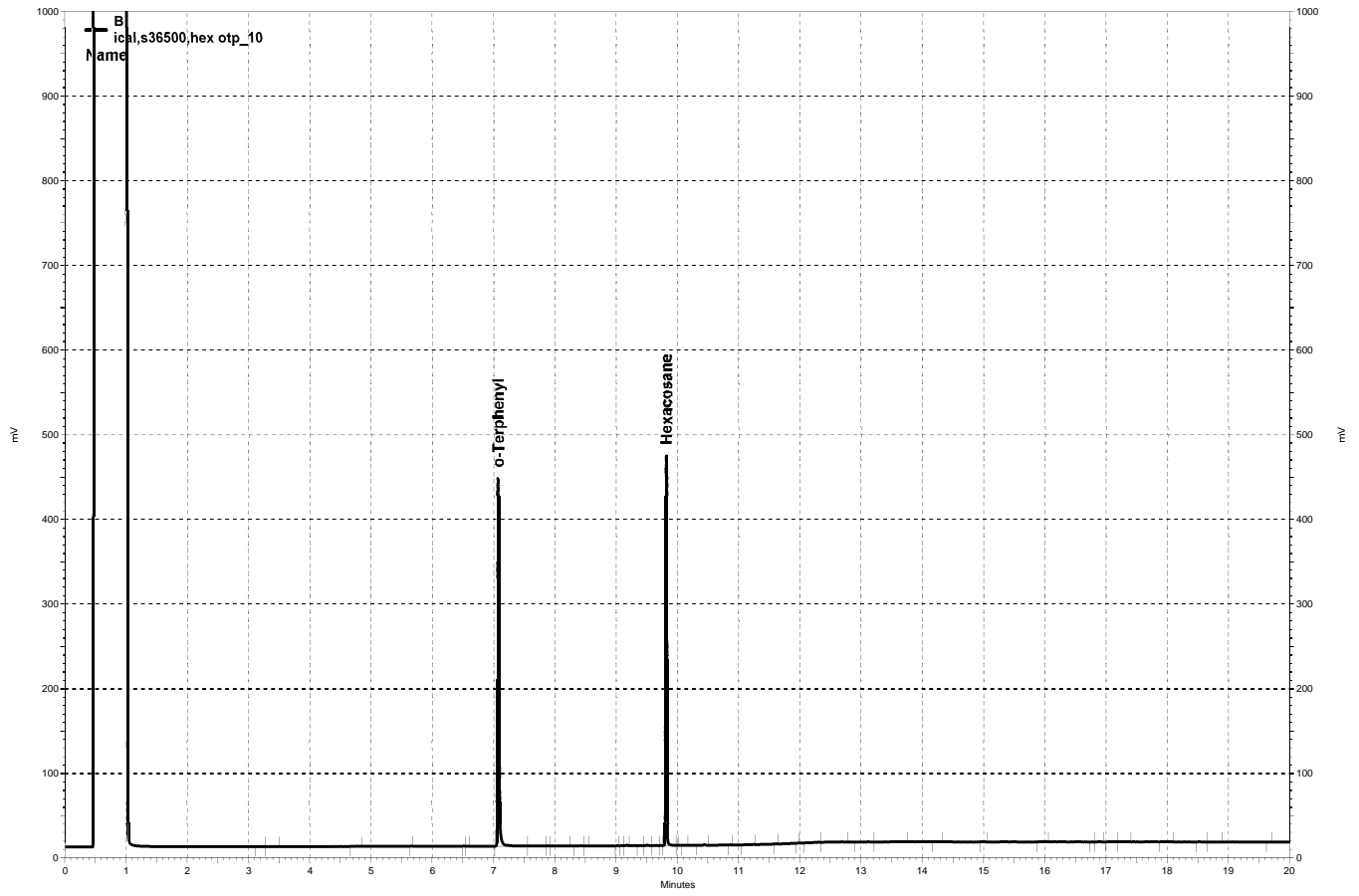
```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

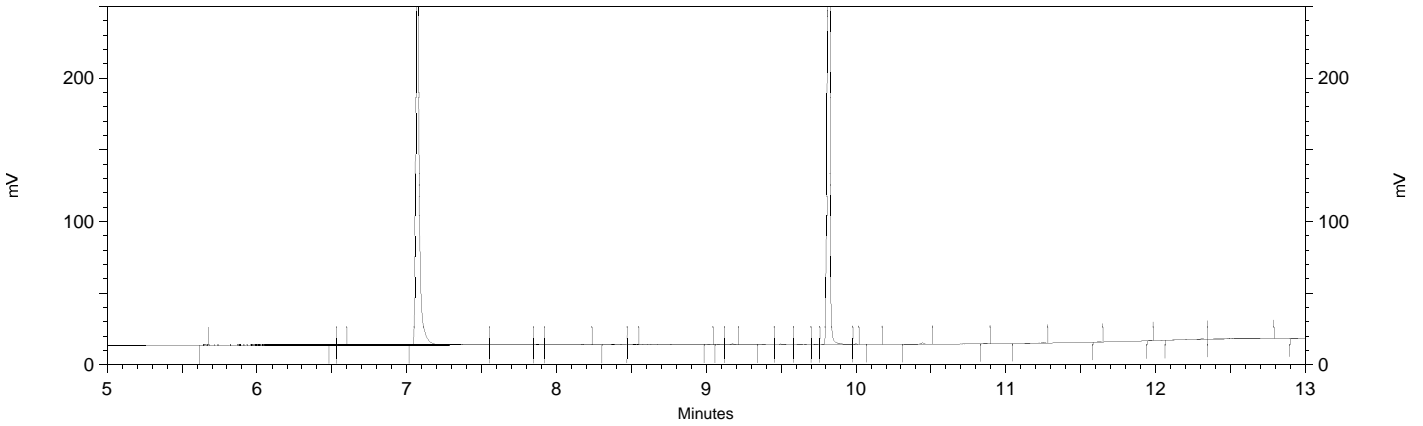


\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b035, B

Sample Name: ical,s36500,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b035
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr180.met
 Run Date: 7/3/2018 1:34:56 AM
 Analysis Date: 7/3/2018 1:55:04 AM
 Instrument: GC14B Vial: 35 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.073	580954	10.930
Hexacosane	9.820	514655	10.808



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

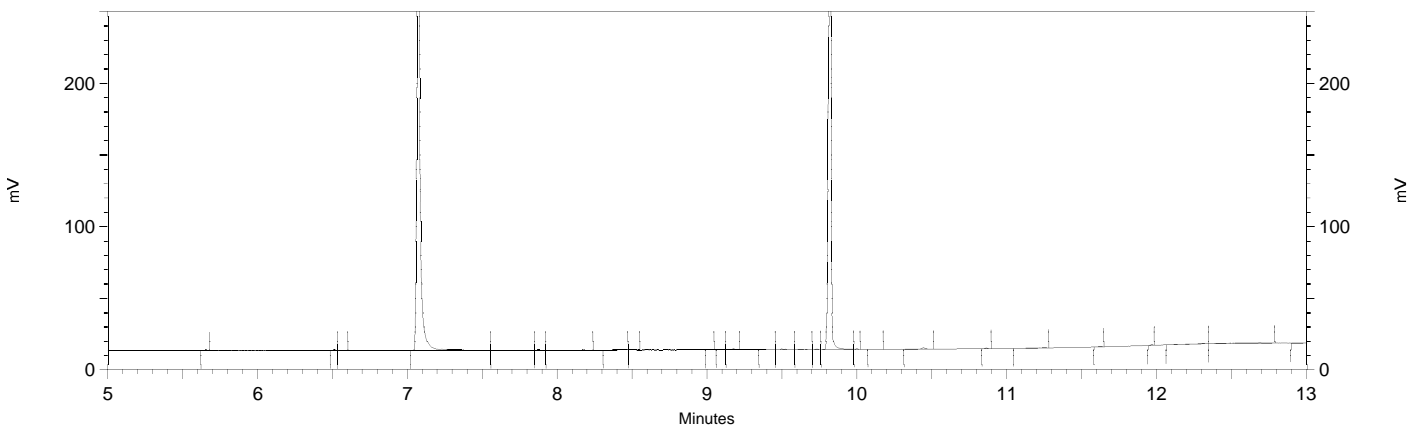
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\183b035_5A2E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36500,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b035
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 1:34:56 AM
 Analysis Date: 7/3/2018 10:46:50 AM
 Instrument: GC14B Vial: 35 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.073	580954	10.536
Hexacosane	9.820	515319	10.320



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

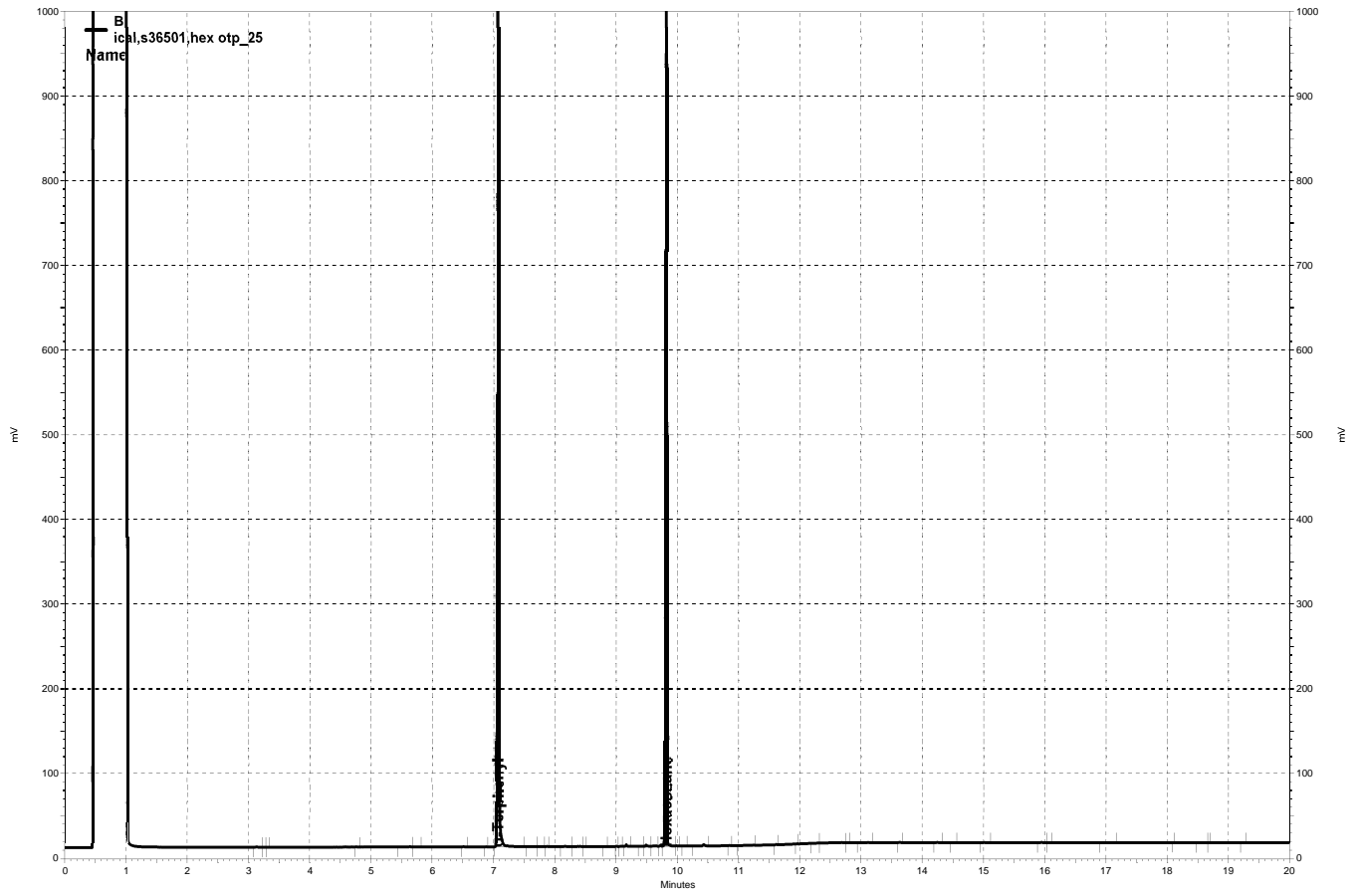
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b035
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Baseline     9.758  10.021  0
  
```

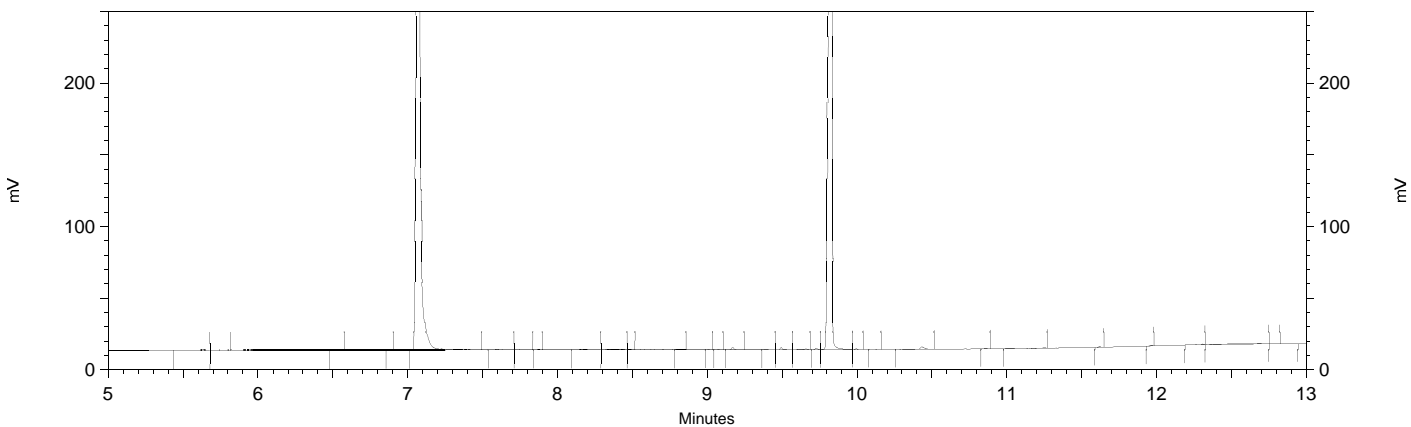


\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b036, B

Sample Name: ical,s36501,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b036
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr180.met
 Run Date: 7/3/2018 2:03:26 AM
 Analysis Date: 7/3/2018 2:23:35 AM
 Instrument: GC14B Vial: 36 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.075	1401114	26.362
Hexacosane	9.823	1243722	26.119



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

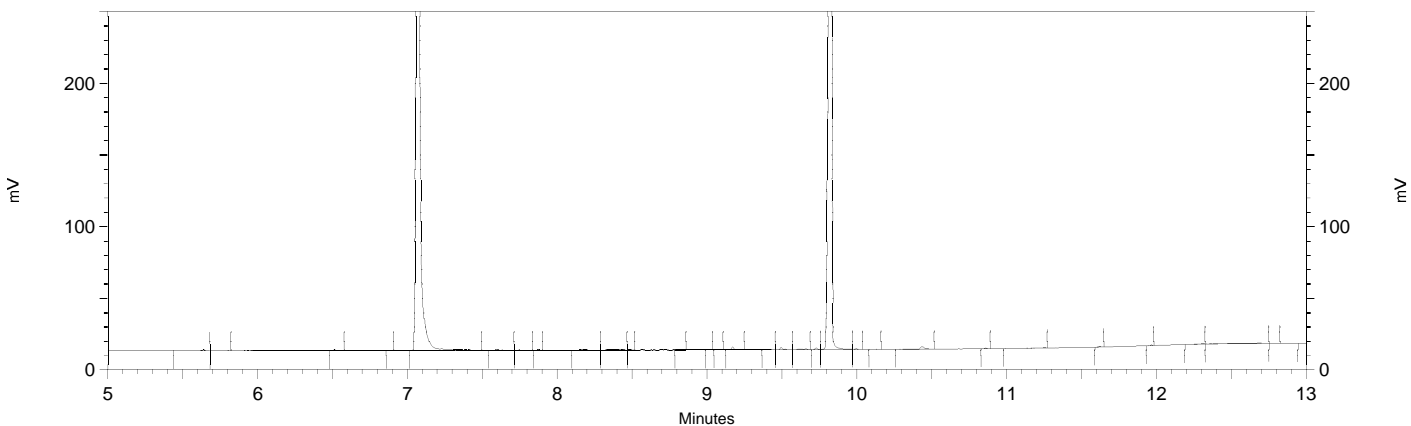
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\183b036_5A2F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36501,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b036
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 2:03:26 AM
 Analysis Date: 7/3/2018 10:47:05 AM
 Instrument: GC14B Vial: 36 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.075	1401114	25.430
Hexacosane	9.823	1244564	24.922



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

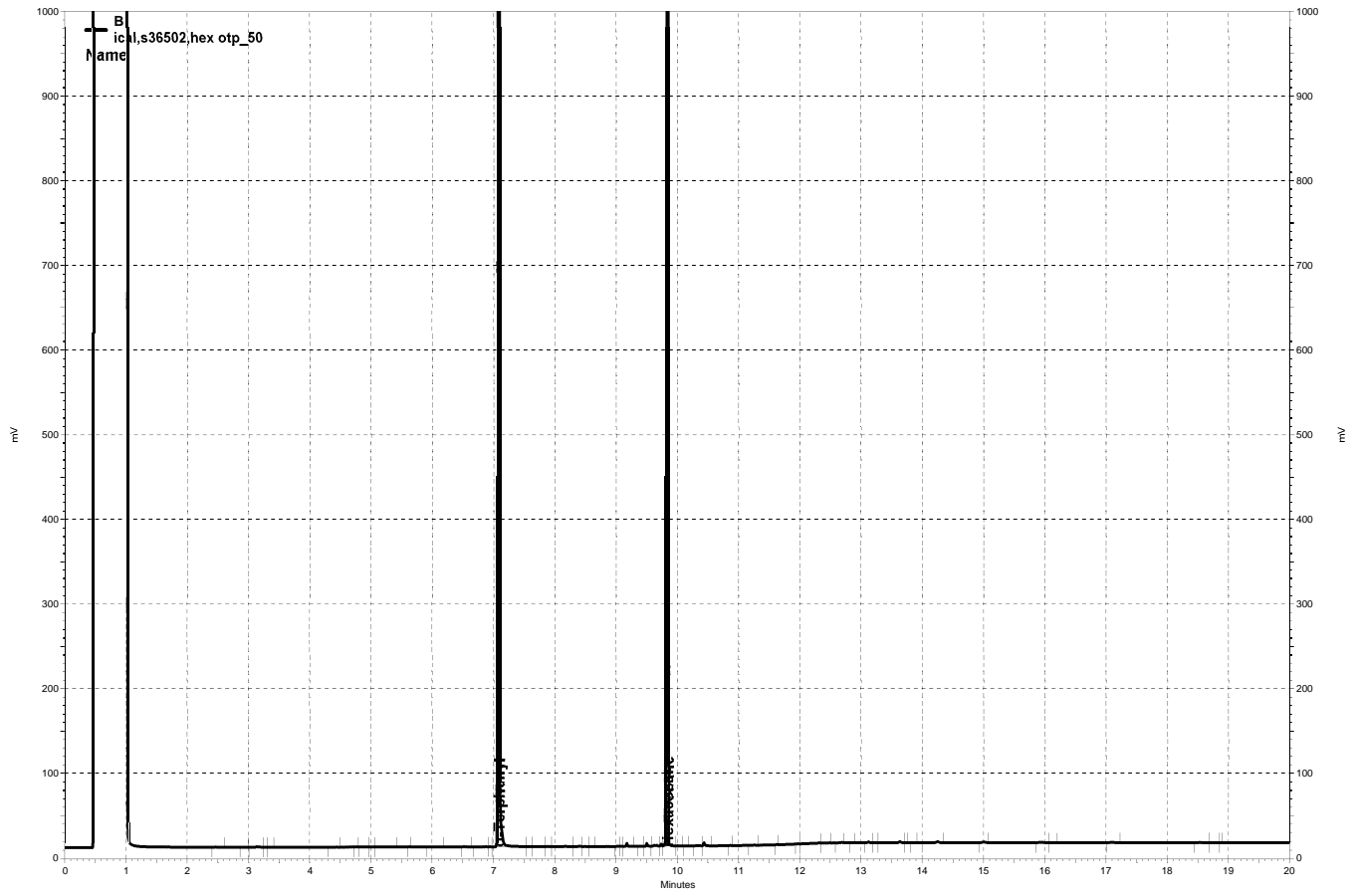
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	9.697	10.037	0

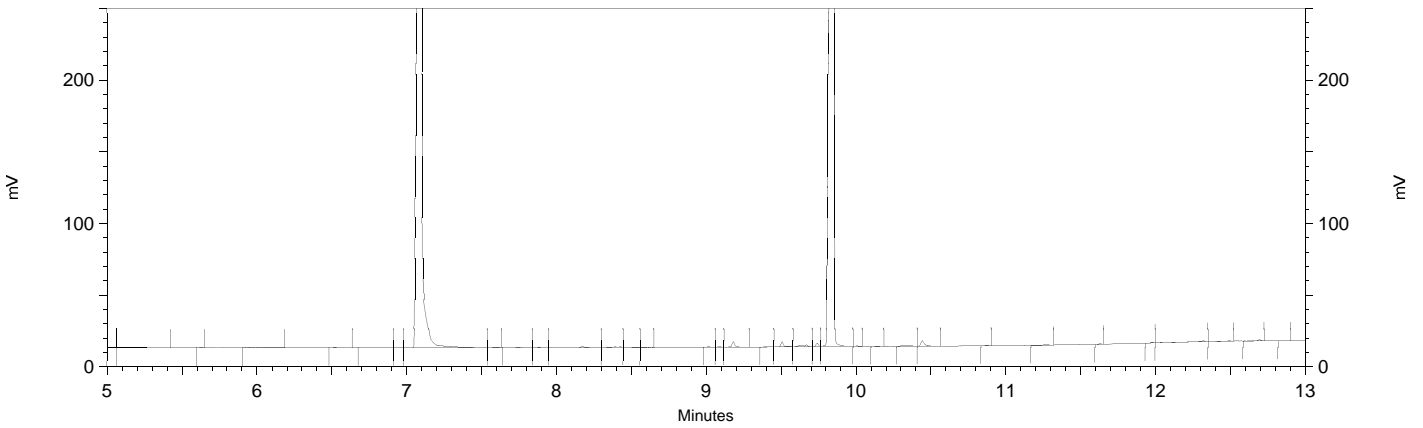


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b037, B

Sample Name: ical,s36502,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b037
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr180.met
 Run Date: 7/3/2018 2:31:55 AM
 Analysis Date: 7/3/2018 2:52:04 AM
 Instrument: GC14B Vial: 37 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.093	2698967	50.780
Hexacosane	9.848	2460298	51.669



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

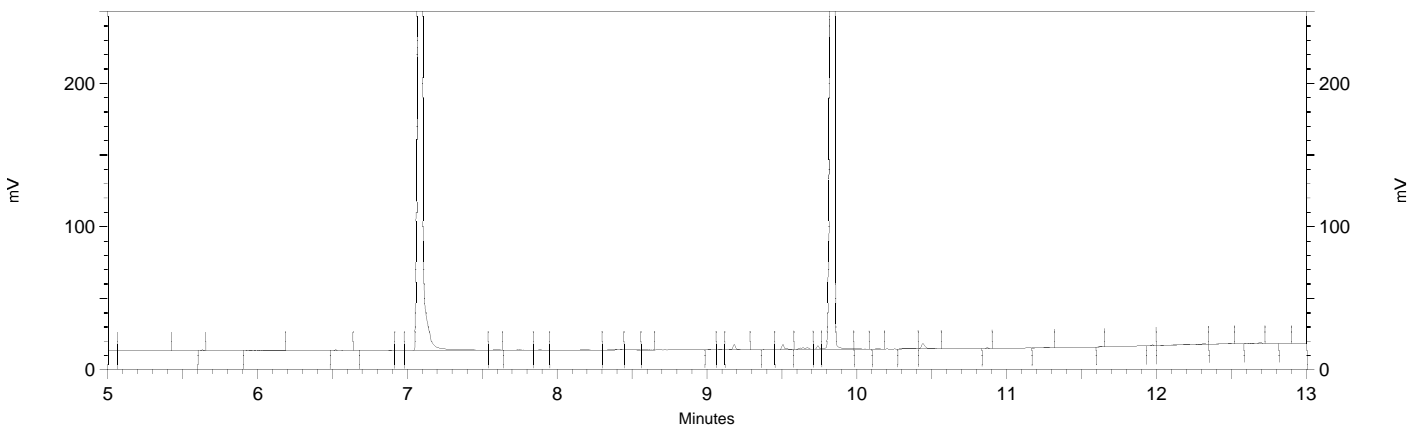
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\183b037_5A30.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36502,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b037
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 2:31:55 AM
 Analysis Date: 7/3/2018 10:45:49 AM
 Instrument: GC14B Vial: 37 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.093	2698967	41.919
Hexacosane	9.848	2461909	42.351



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

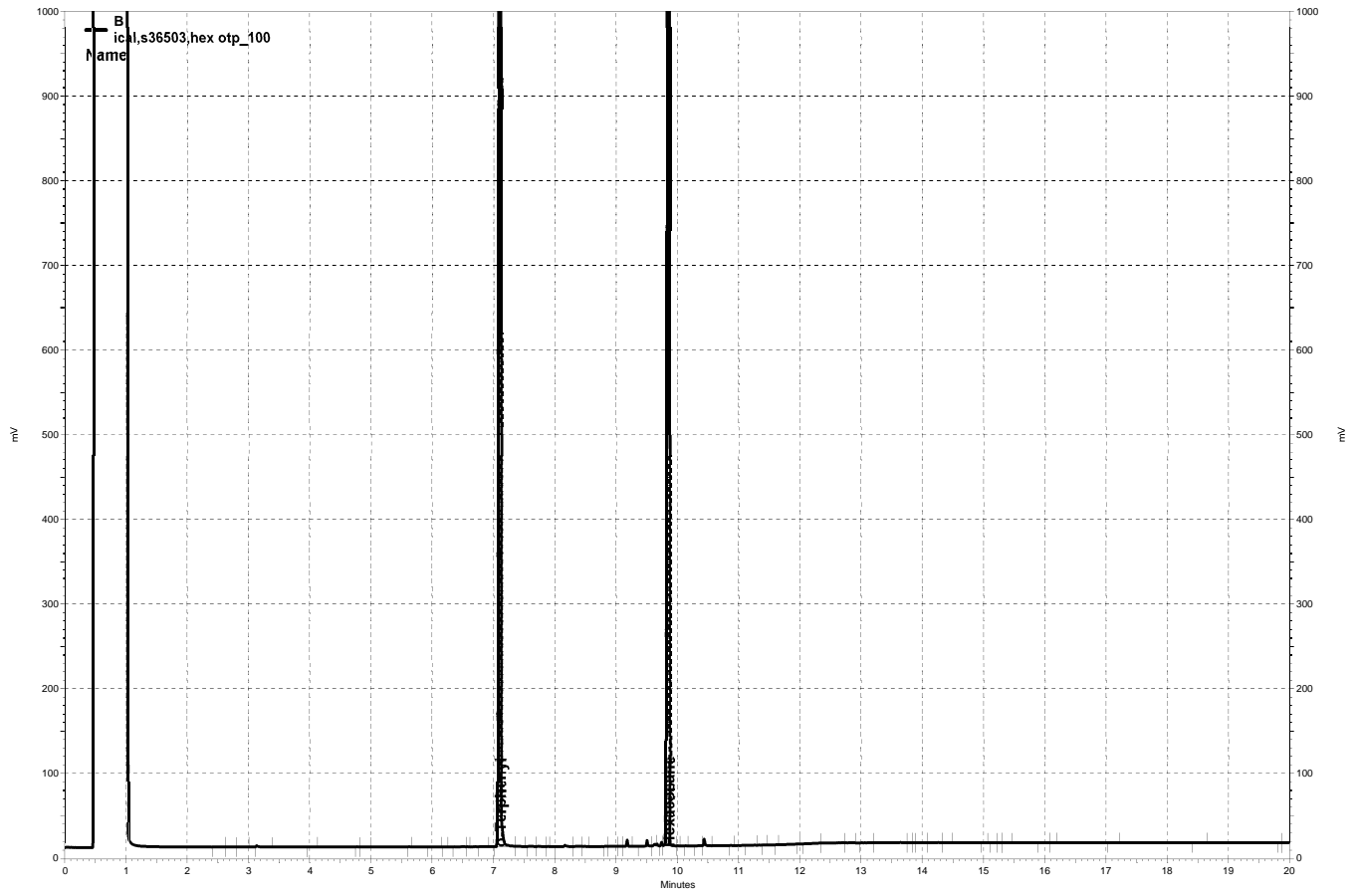
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b037

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	9.575	10.081	0

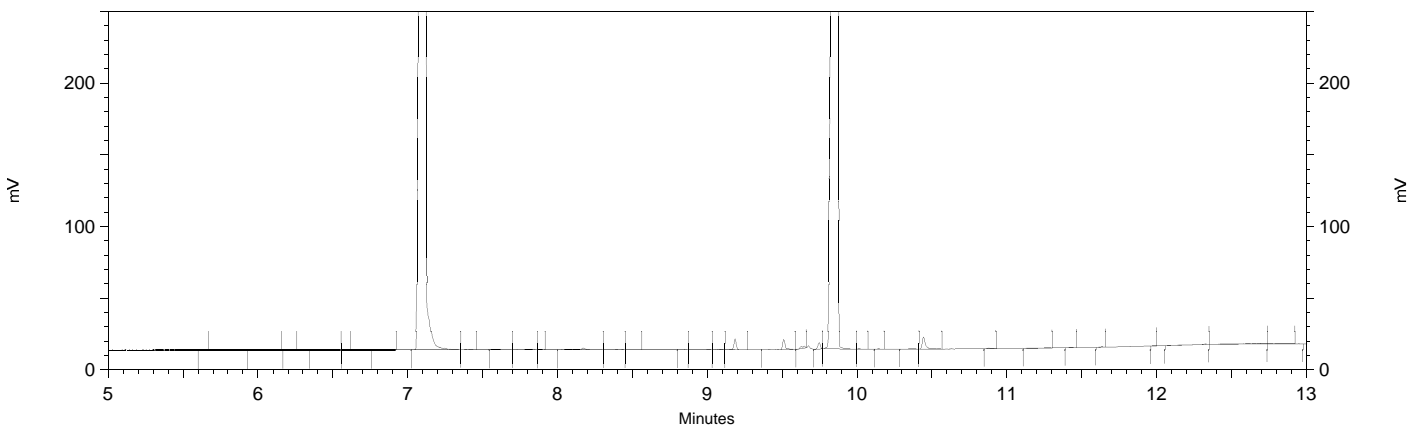


\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b038, B

Sample Name: ical,s36503,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b038
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr180.met
 Run Date: 7/3/2018 3:00:20 AM
 Analysis Date: 7/3/2018 3:20:30 AM
 Instrument: GC14B Vial: 38 Operator: lims2k3\alcohol1
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.117	5254690	98.865
Hexacosane	9.868	4834020	101.519



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

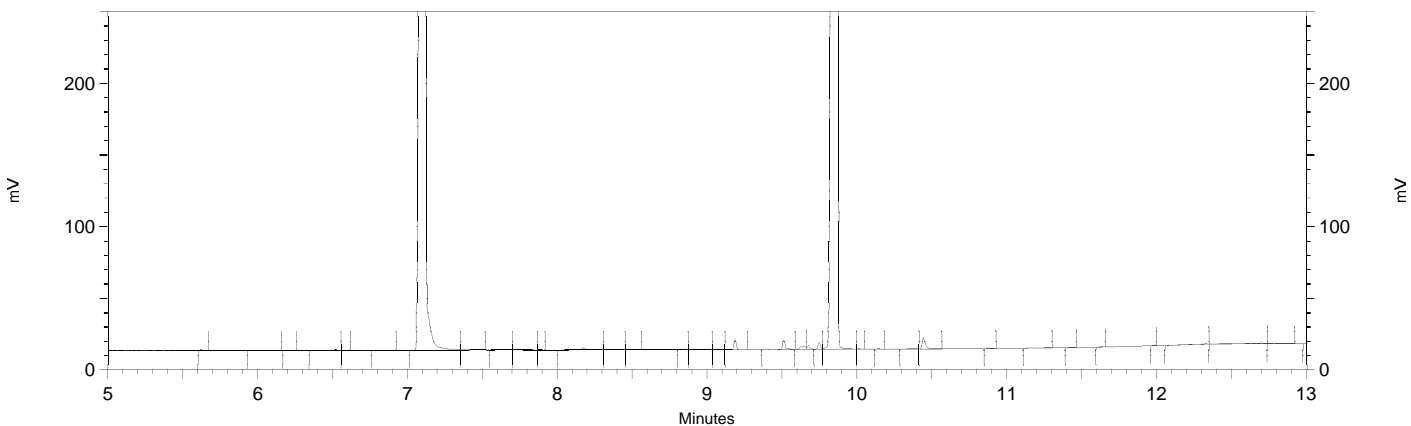
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\183b038_5A31.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36503,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b038
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\183.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\bothsurr183.met
 Run Date: 7/3/2018 3:00:20 AM
 Analysis Date: 7/3/2018 10:46:10 AM
 Instrument: GC14B Vial: 38 Operator: Alcohol 1. Analyst (lms2k3\alcohol1)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.117	5257892	95.346
Hexacosane	9.868	4837000	96.918



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\183b038
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Manual Baseline     7.013     7.516     0
Yes Manual Baseline     9.582    10.046     0
  
```

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC26A
 Calnum : 868380491001
 Units : mg/L

Name : DSL_264
 Date : 21-SEP-2018 08:49
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	264a008	868380491008	DSL_10	21-SEP-2018 08:49	S38234
L2	264a009	868380491009	DSL_100	21-SEP-2018 09:18	S38235
L3	264a010	868380491010	DSL_500	21-SEP-2018 09:47	S38236
L4	264a011	868380491011	DSL_1000	21-SEP-2018 10:16	S38237
L5	264a012	868380491012	DSL_5000	21-SEP-2018 10:45	S38233

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	49825	56833	59201	59168	59441	AVRG		1.76E-5		56893	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-12	100.00	0	500.00	4	1000.0	4	5000.0	4

CB1 09/24/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 09/24/18

Reviewer: EAH

Date: 09/24/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCSV Water
EPA 8015B

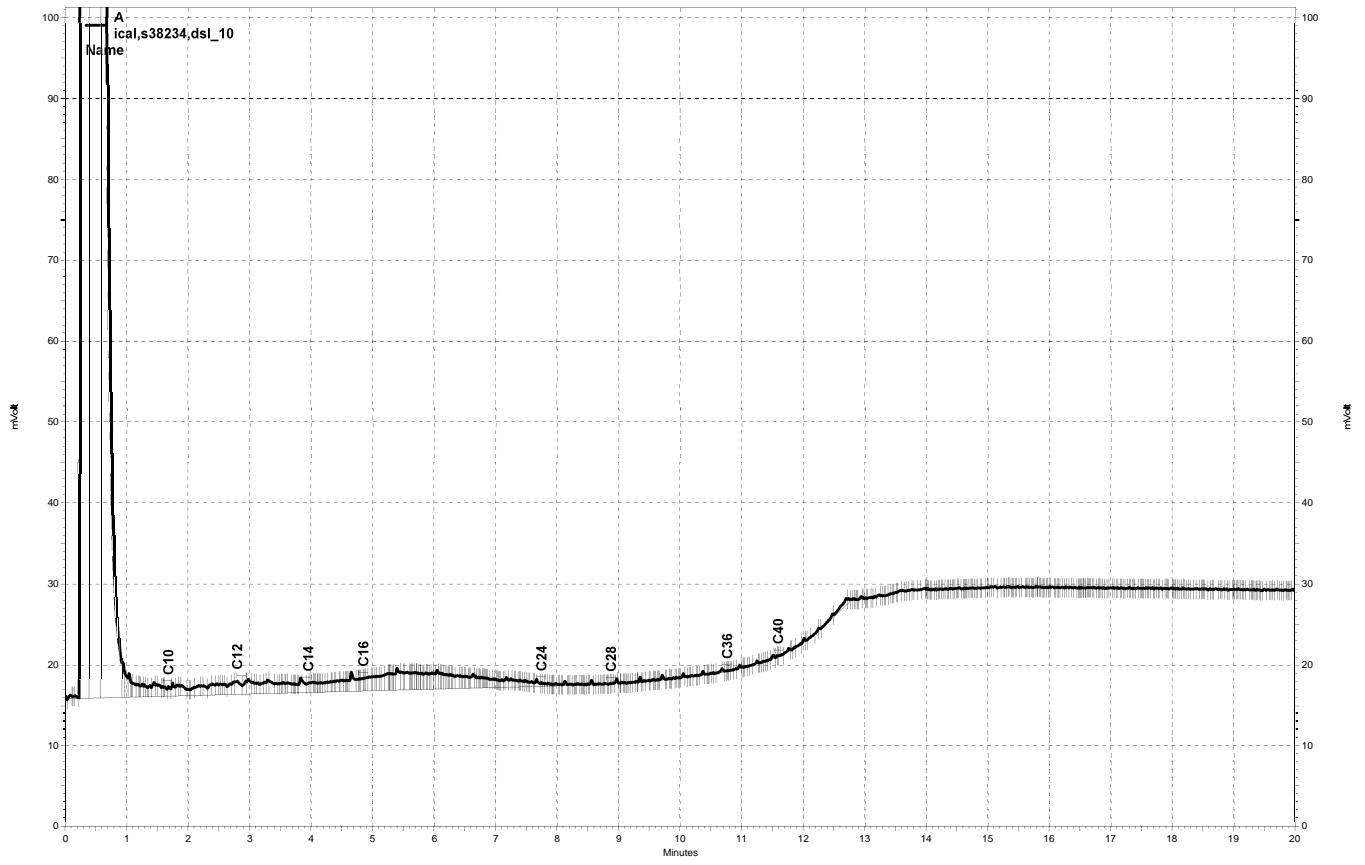
Inst : GC26A
Calnum : 868380491001

Name : DSL_264
Cal Date : 21-SEP-2018

ICV 868380491014 (264a014 21-SEP-2018) stds: S38109

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	492.7	mg/L	-1	15	

WA1: 09/21/18 * CB1: 09/24/18 EAH: 09/24/18



\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008, A

Sample Name: ical,s38234,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
 Run Date: 9/21/2018 8:49:26 AM
 Analysis Date: 9/21/2018 5:25:55 PM
 Instrument: GC26A Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	246857	0.000 CAL
DSL:10-14	171509	10.000 CAL
DSL:10-22	474902	10.000 CAL
DSL:10-24	498245	10.000 CAL
DSL:10-28	507724	10.000 CAL
DSL:12-24	423373	10.000 CAL
DSL:12-28	432852	10.000 CAL
DSL:14-24	332124	10.000 CAL
DSL:16-24	266157	10.000 CAL
MO:22-32	49506	0.000 CAL
MO:24-36	27587	0.000 CAL
MO:28-40	17487	0.000 CAL
BUNKC:10-40	524966	0.000 CAL
BUNKC:12-40	450094	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

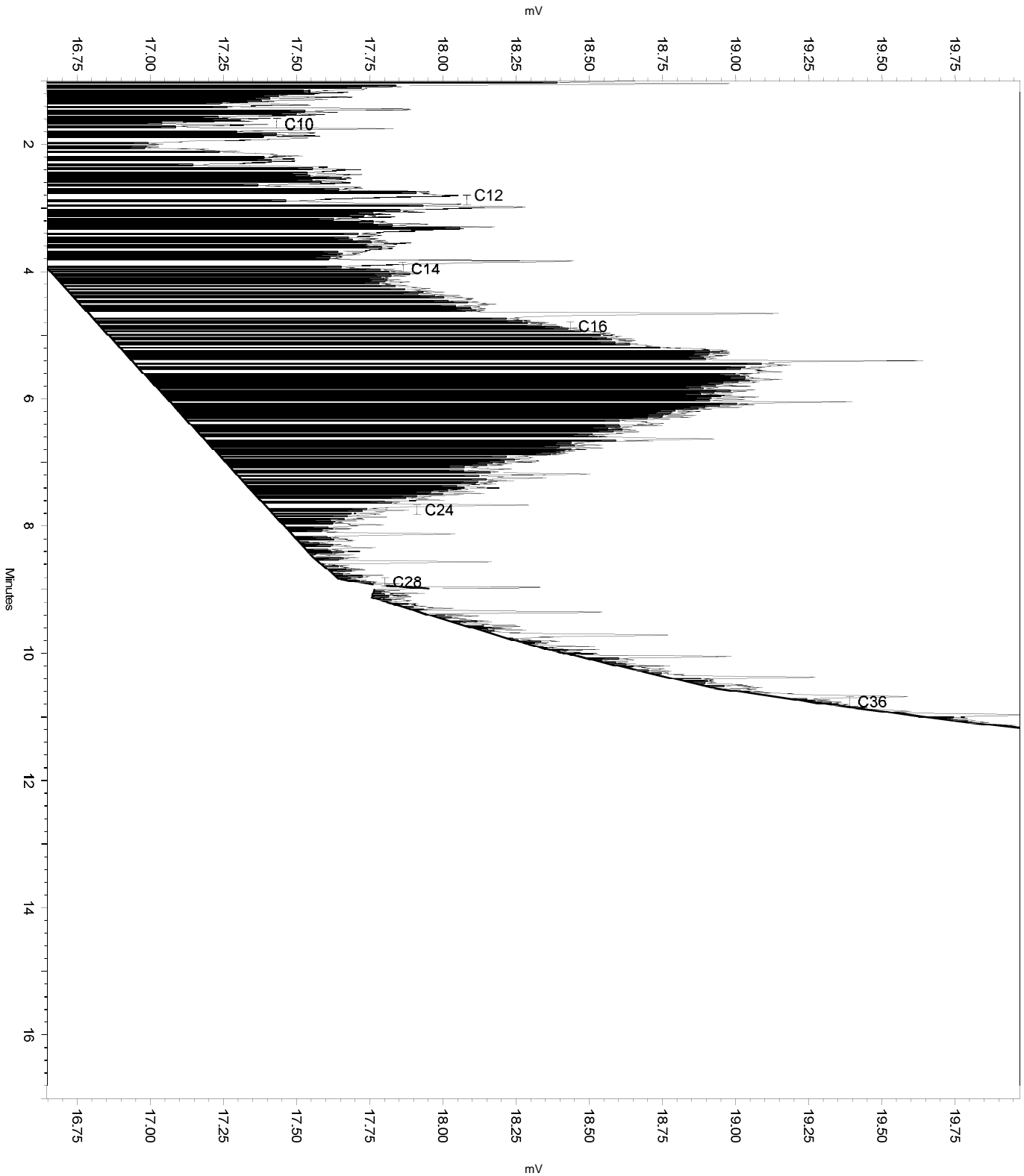
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	2.048	0.051	0

Sample Name: ical,s38234,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
Run Date: 9/21/2018 8:49:26 AM
Analysis Date: 9/21/2018 5:25:55 PM
Instrument: GC26A Vial: 8 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38234,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
 Run Date: 9/21/2018 8:49:26 AM
 Analysis Date: 9/21/2018 5:23:31 PM
 Instrument: GC26A Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	132965	2.859
DSL:10-14	82269	10.000
DSL:10-22	324429	6.770
DSL:10-24	343837	6.978
DSL:10-28	351977	7.057
DSL:12-24	315994	7.399
DSL:12-28	324134	7.484
DSL:14-24	264557	10.000
DSL:16-24	221824	9.495
MO:22-32	42572	1.207
MO:24-36	25215	0.719
MO:28-40	17487	0.830
BUNKC:10-40	369219	17.783
BUNKC:12-40	341376	16.992

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

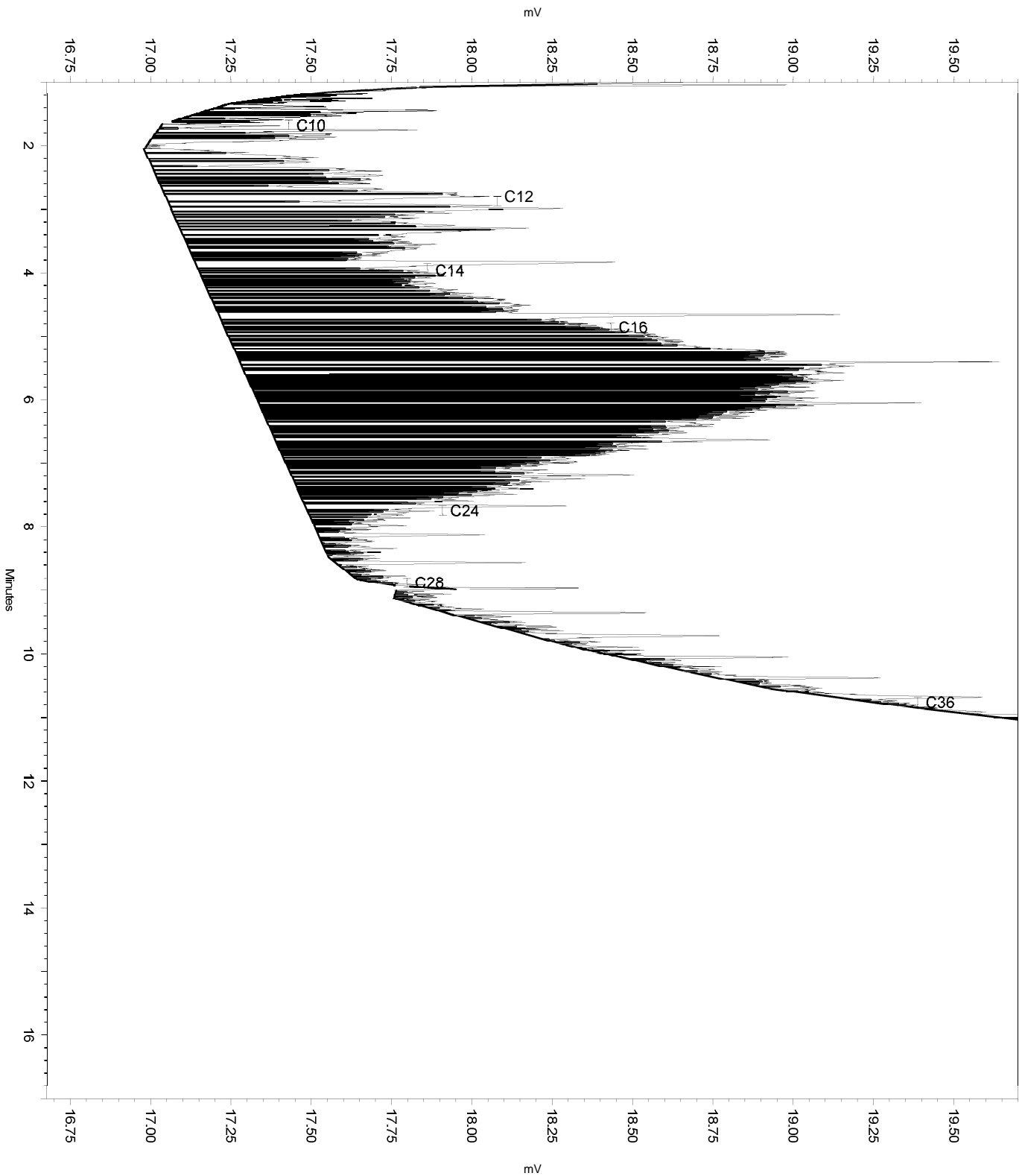
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s38234,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
Run Date: 9/21/2018 8:49:26 AM
Analysis Date: 9/21/2018 5:23:31 PM
Instrument: GC26A Vial: 8 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38234,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 8:49:26 AM
 Analysis Date: 9/24/2018 12:22:12 PM
 Instrument: GC26A Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	246857	0.000 CAL
DSL:10-14	171509	10.000 CAL
DSL:10-22	474902	10.000 CAL
DSL:10-24	498245	10.000 CAL
DSL:10-28	507724	10.000 CAL
DSL:12-24	423373	10.000 CAL
DSL:12-28	432852	10.000 CAL
DSL:14-24	332124	10.000 CAL
DSL:16-24	266157	10.000 CAL
MO:22-32	49506	0.000 CAL
MO:24-36	27587	0.000 CAL
MO:28-40	17487	0.000 CAL
BUNKC:10-40	524966	0.000 CAL
BUNKC:12-40	450094	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

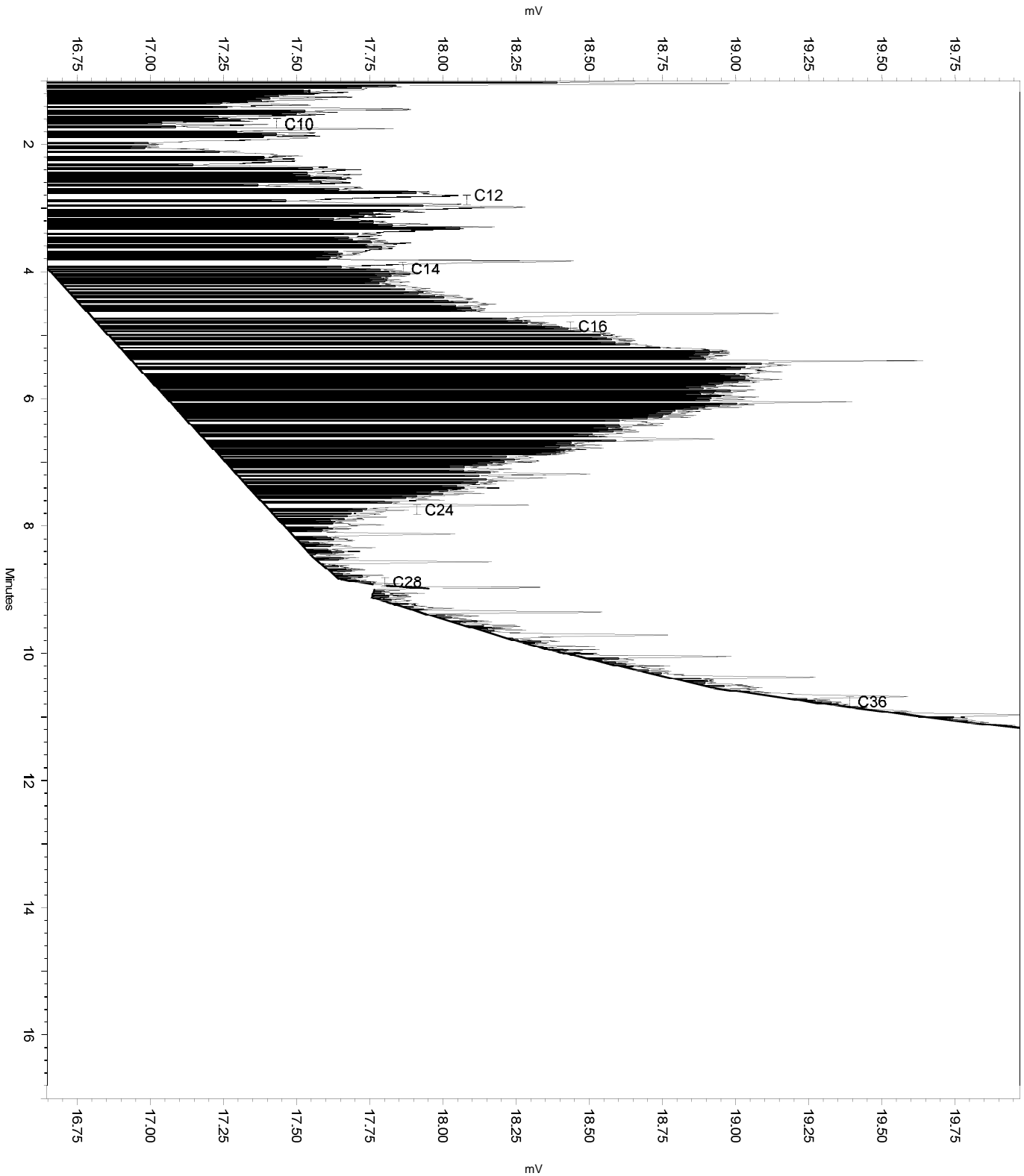
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	2.048	0.051	0

Sample Name: ical,s38234,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 8:49:26 AM
Analysis Date: 9/24/2018 12:22:12 PM
Instrument: GC26A Vial: 8 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38234,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 8:49:26 AM
 Analysis Date: 9/24/2018 12:20:18 PM
 Instrument: GC26A Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	132965	0.000 CAL
DSL:10-14	82269	10.000 CAL
DSL:10-22	324429	10.000 CAL
DSL:10-24	343837	10.000 CAL
DSL:10-28	351977	10.000 CAL
DSL:12-24	315994	10.000 CAL
DSL:12-28	324134	10.000 CAL
DSL:14-24	264557	10.000 CAL
DSL:16-24	221824	10.000 CAL
MO:22-32	42572	0.000 CAL
MO:24-36	25215	0.000 CAL
MO:28-40	17487	0.000 CAL
BUNKC:10-40	369219	0.000 CAL
BUNKC:12-40	341376	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

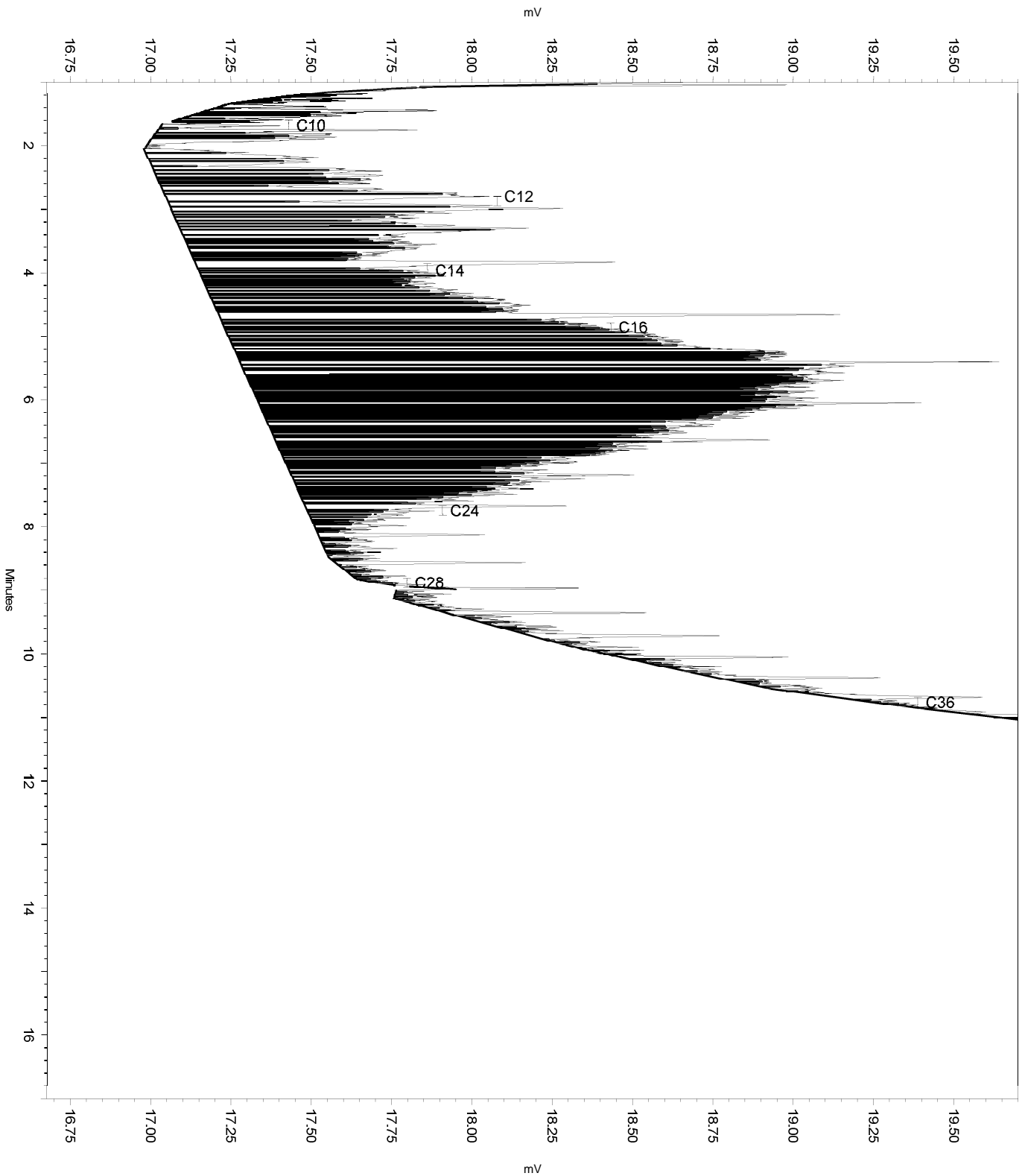
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	2.048	0.051	0

Sample Name: ical,s38234,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 8:49:26 AM
Analysis Date: 9/24/2018 12:20:18 PM
Instrument: GC26A Vial: 8 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1

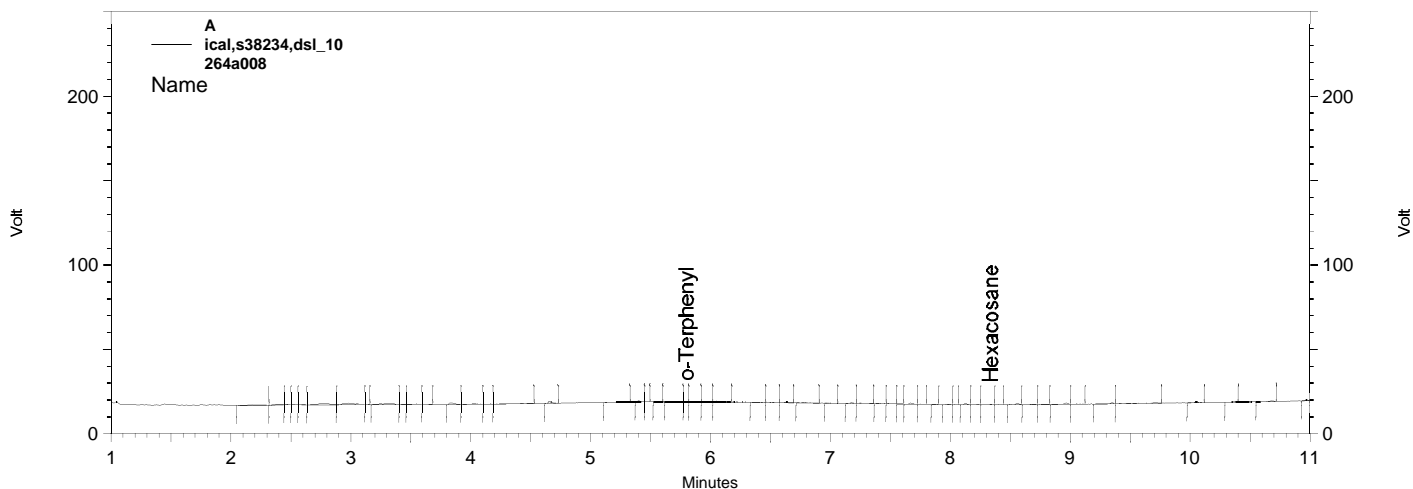


Sample Name: ical,s38234,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264a008.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met
 Run Date: 9/21/2018 8:49:26 AM
 Analysis Date: 9/21/2018 9:09:33 AM
 Instrument: GC26A Vial: 8 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.802	187	0.003
Hexacosane	8.340	493	0.012



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met ical,s38234,dsl_10

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

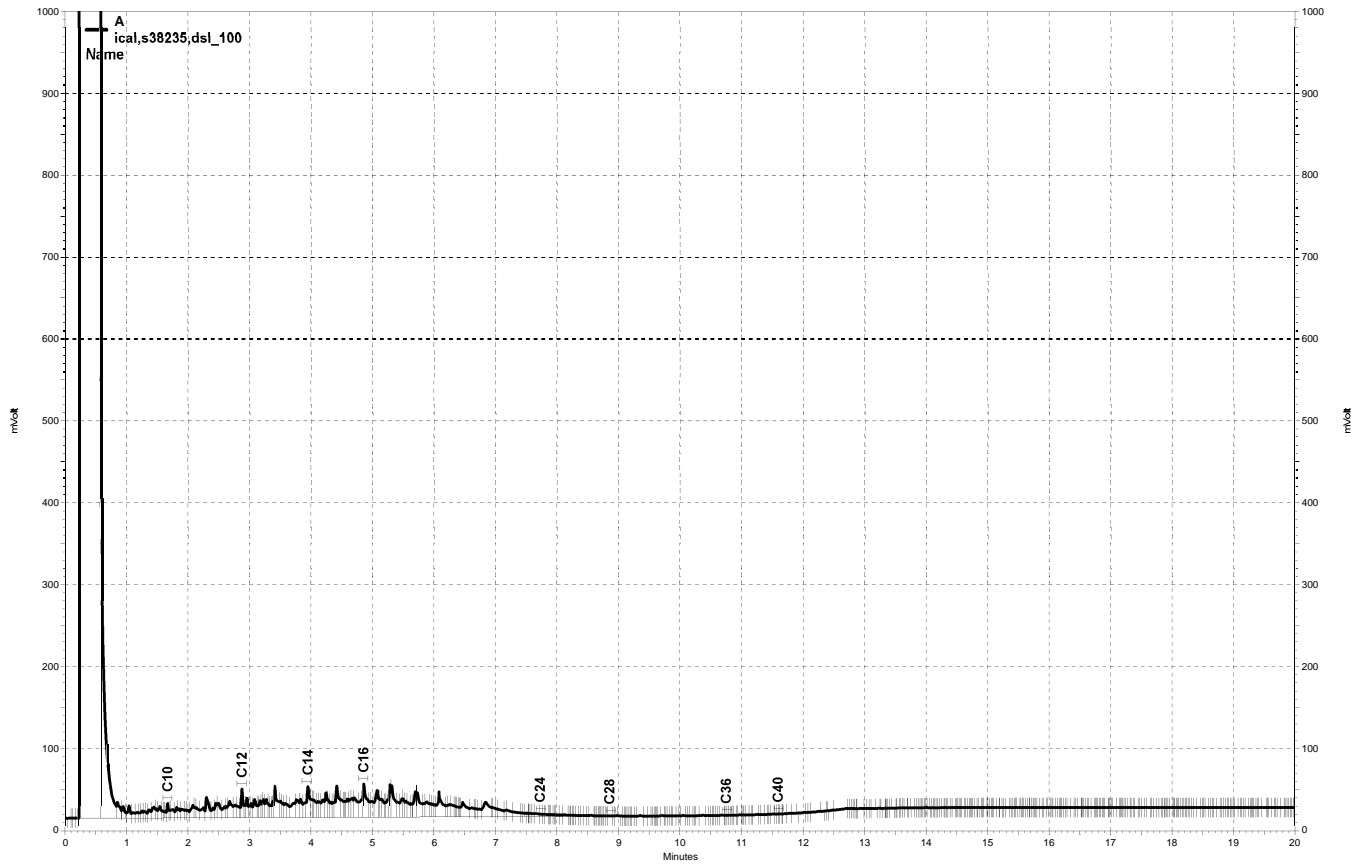
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\264a008_47F8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009, A

Sample Name: ical,s38235,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
 Run Date: 9/21/2018 9:18:14 AM
 Analysis Date: 9/21/2018 5:25:58 PM
 Instrument: GC26A Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	3360493	0.000 CAL
DSL:10-14	2182244	100.000 CAL
DSL:10-22	5516770	100.000 CAL
DSL:10-24	5683286	100.000 CAL
DSL:10-28	5759258	100.000 CAL
DSL:12-24	4814294	100.000 CAL
DSL:12-28	4890266	100.000 CAL
DSL:14-24	3711492	100.000 CAL
DSL:16-24	2563566	100.000 CAL
MO:22-32	326977	0.000 CAL
MO:24-36	115841	0.000 CAL
MO:28-40	27659	0.000 CAL
BUNKC:10-40	5783475	0.000 CAL
BUNKC:12-40	4914483	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

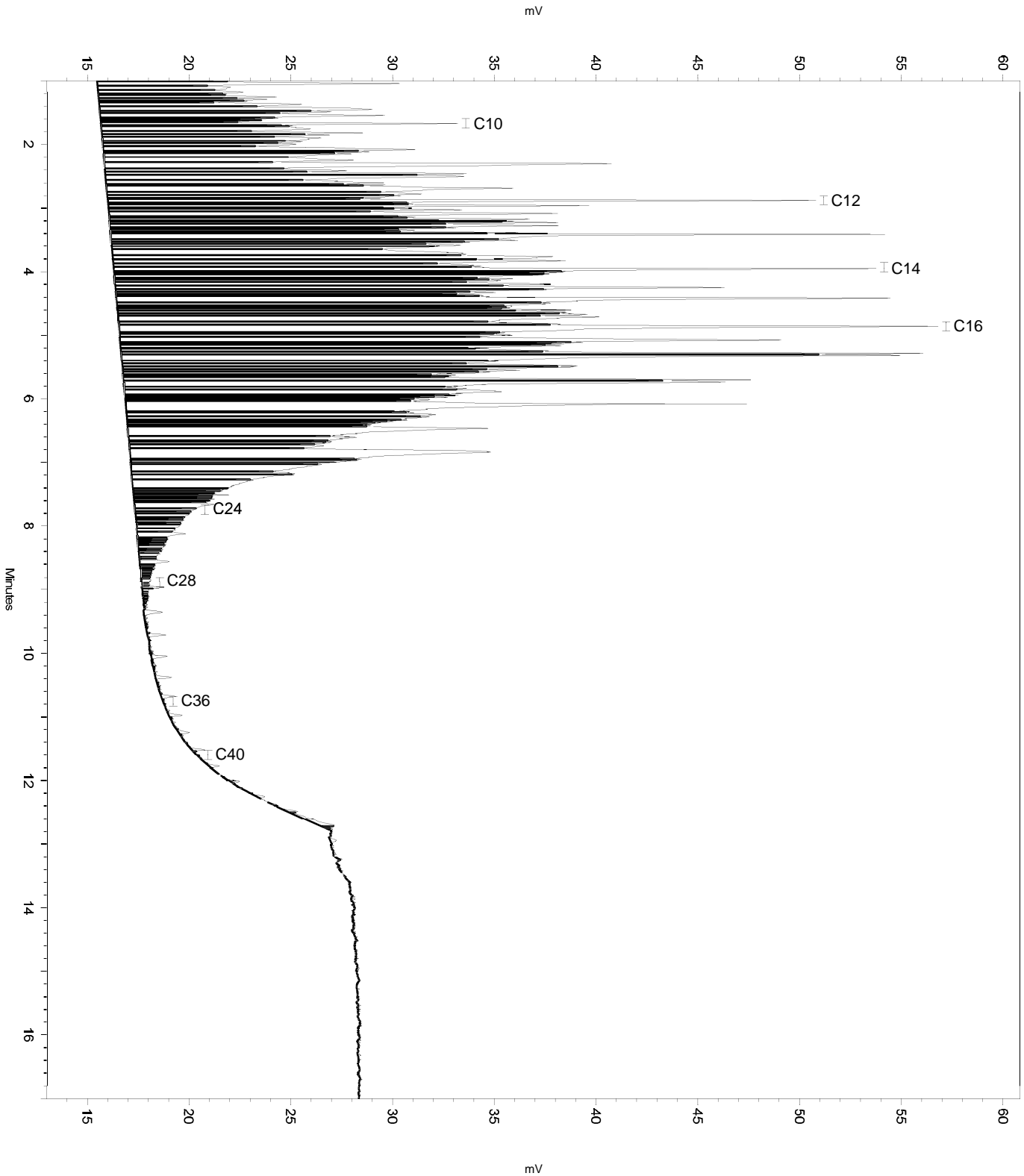
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	9.293	0.21	0

Sample Name: ical,s38235,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
Run Date: 9/21/2018 9:18:14 AM
Analysis Date: 9/21/2018 5:25:58 PM
Instrument: GC26A Vial: 9 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38235,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
 Run Date: 9/21/2018 9:18:14 AM
 Analysis Date: 9/21/2018 5:24:14 PM
 Instrument: GC26A Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	1384180	0.000 CAL
DSL:10-14	902158	100.000 CAL
DSL:10-22	1937807	100.000 CAL
DSL:10-24	1952607	100.000 CAL
DSL:10-28	1959416	100.000 CAL
DSL:12-24	1631597	100.000 CAL
DSL:12-28	1638406	100.000 CAL
DSL:14-24	1154719	100.000 CAL
DSL:16-24	673367	100.000 CAL
MO:22-32	44195	0.000 CAL
MO:24-36	22123	0.000 CAL
MO:28-40	21425	0.000 CAL
BUNKC:10-40	1980249	0.000 CAL
BUNKC:12-40	1659239	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

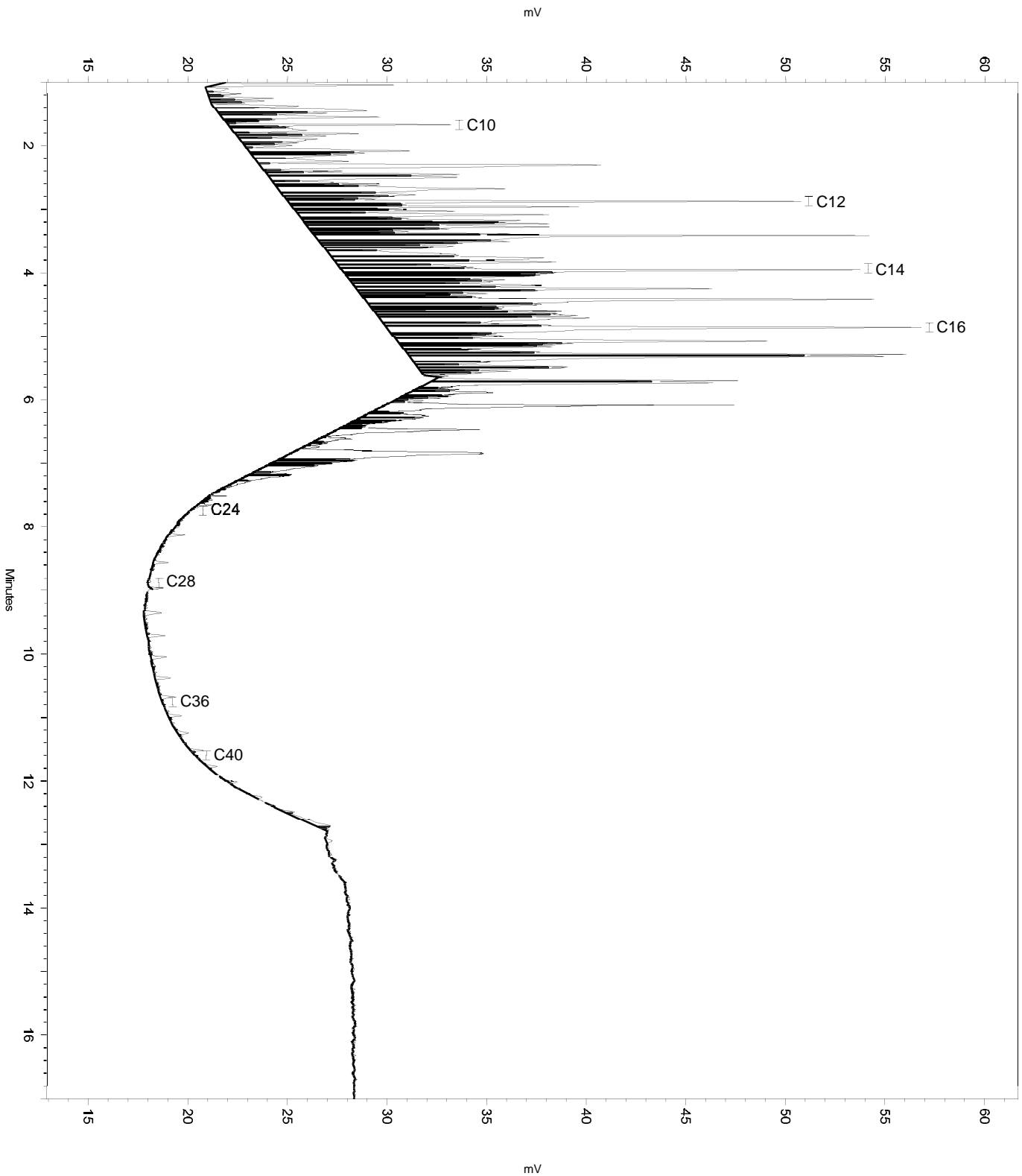
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	9.293	0.21	0

Sample Name: ical,s38235,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
Run Date: 9/21/2018 9:18:14 AM
Analysis Date: 9/21/2018 5:24:14 PM
Instrument: GC26A Vial: 9 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38235,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 9:18:14 AM
 Analysis Date: 9/24/2018 12:22:15 PM
 Instrument: GC26A Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	3360493	0.000 CAL
DSL:10-14	2182244	100.000 CAL
DSL:10-22	5516770	100.000 CAL
DSL:10-24	5683286	100.000 CAL
DSL:10-28	5759258	100.000 CAL
DSL:12-24	4814294	100.000 CAL
DSL:12-28	4890266	100.000 CAL
DSL:14-24	3711492	100.000 CAL
DSL:16-24	2563566	100.000 CAL
MO:22-32	326977	0.000 CAL
MO:24-36	115841	0.000 CAL
MO:28-40	27659	0.000 CAL
BUNKC:10-40	5783475	0.000 CAL
BUNKC:12-40	4914483	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

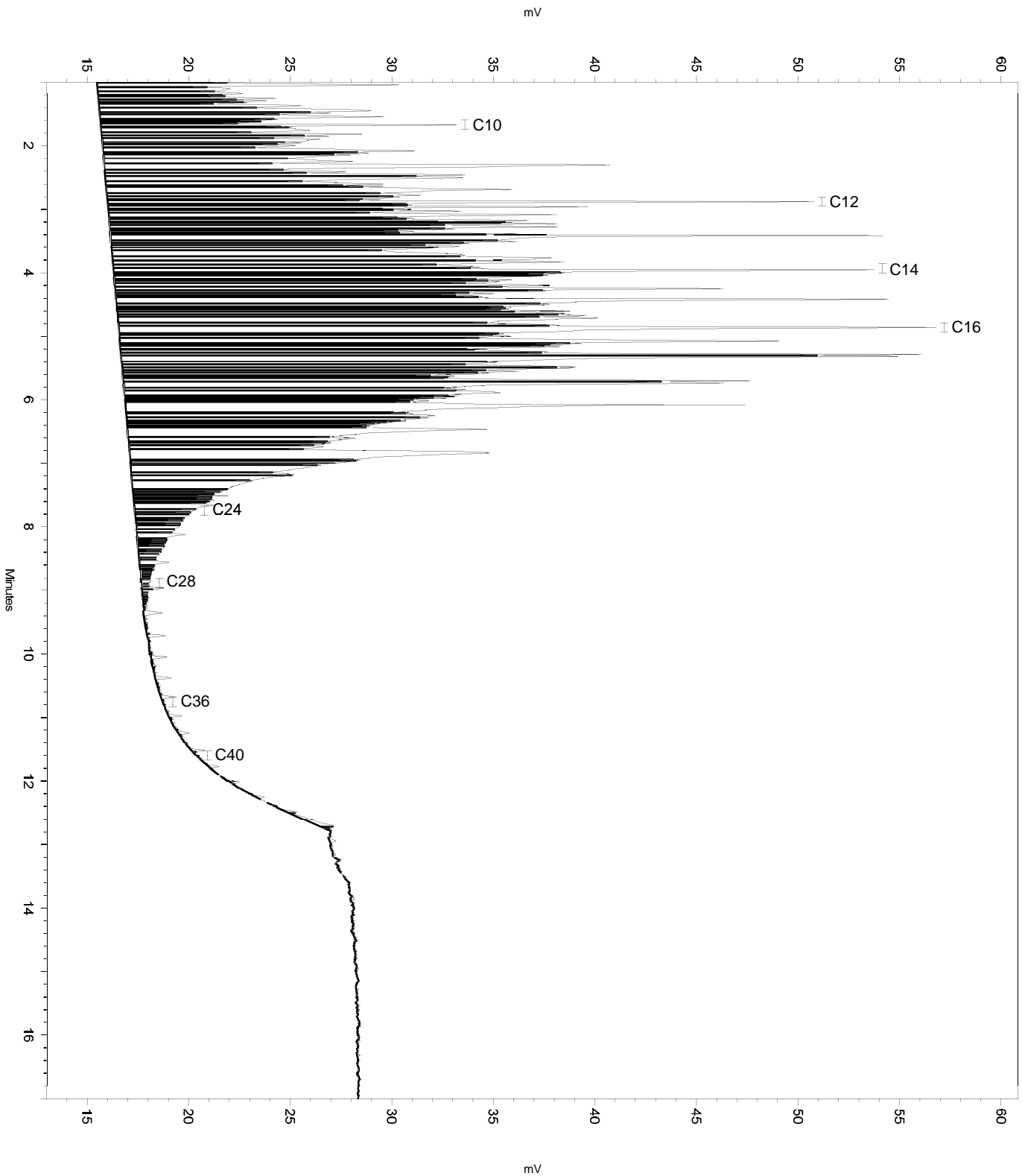
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	9.293	0.21	0

Sample Name: ical,s38235,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 9:18:14 AM
Analysis Date: 9/24/2018 12:22:15 PM
Instrument: GC26A Vial: 9 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38235,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 9:18:14 AM
 Analysis Date: 9/24/2018 12:20:28 PM
 Instrument: GC26A Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	1384180	0.000 CAL
DSL:10-14	902158	100.000 CAL
DSL:10-22	1937807	100.000 CAL
DSL:10-24	1952607	100.000 CAL
DSL:10-28	1959416	100.000 CAL
DSL:12-24	1631597	100.000 CAL
DSL:12-28	1638406	100.000 CAL
DSL:14-24	1154719	100.000 CAL
DSL:16-24	673367	100.000 CAL
MO:22-32	44195	0.000 CAL
MO:24-36	22123	0.000 CAL
MO:28-40	21425	0.000 CAL
BUNKC:10-40	1980249	0.000 CAL
BUNKC:12-40	1659239	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

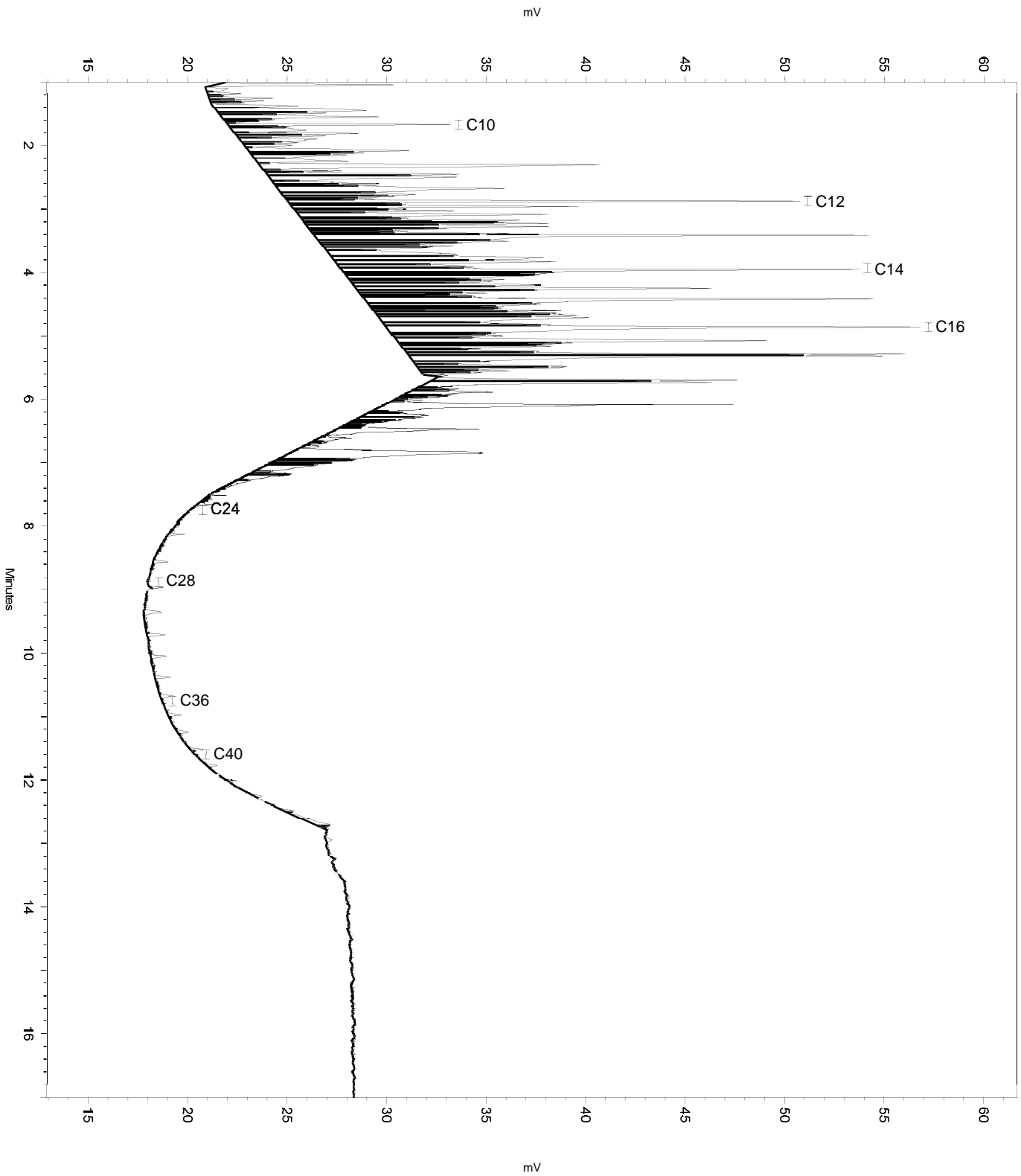
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	9.293	0.21	0

Sample Name: ical,s38235,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 9:18:14 AM
Analysis Date: 9/24/2018 12:20:28 PM
Instrument: GC26A Vial: 9 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1

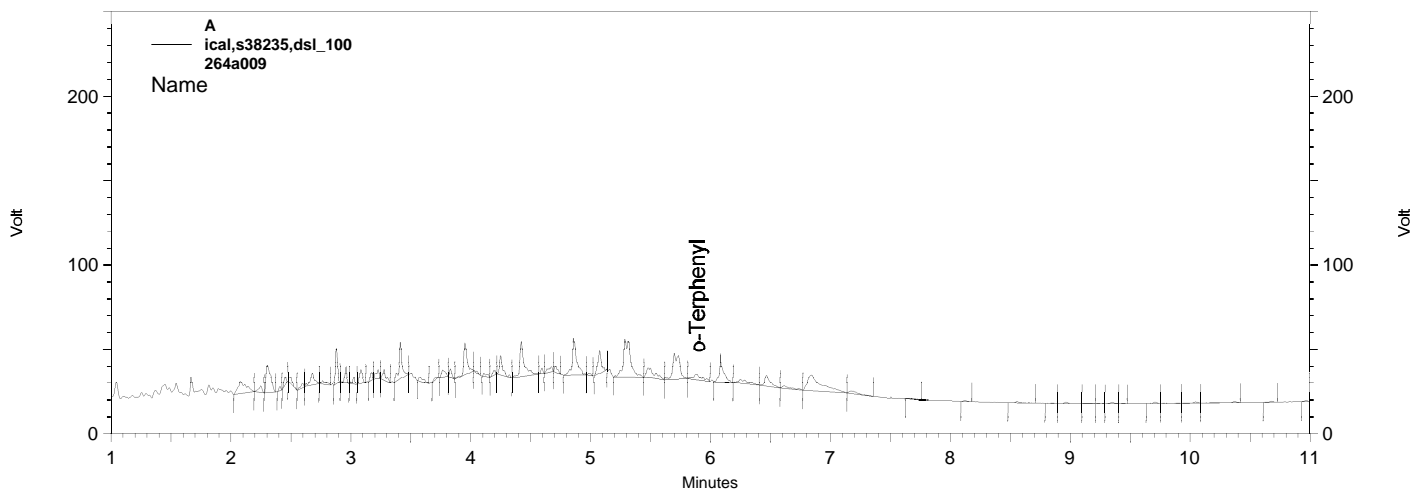


Sample Name: ical,s38235,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264a009.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met
 Run Date: 9/21/2018 9:18:14 AM
 Analysis Date: 9/21/2018 9:38:21 AM
 Instrument: GC26A Vial: 9 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.890	15667	0.263
Hexacosane			0.000 BDL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met ical,s38235,dsl_100

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

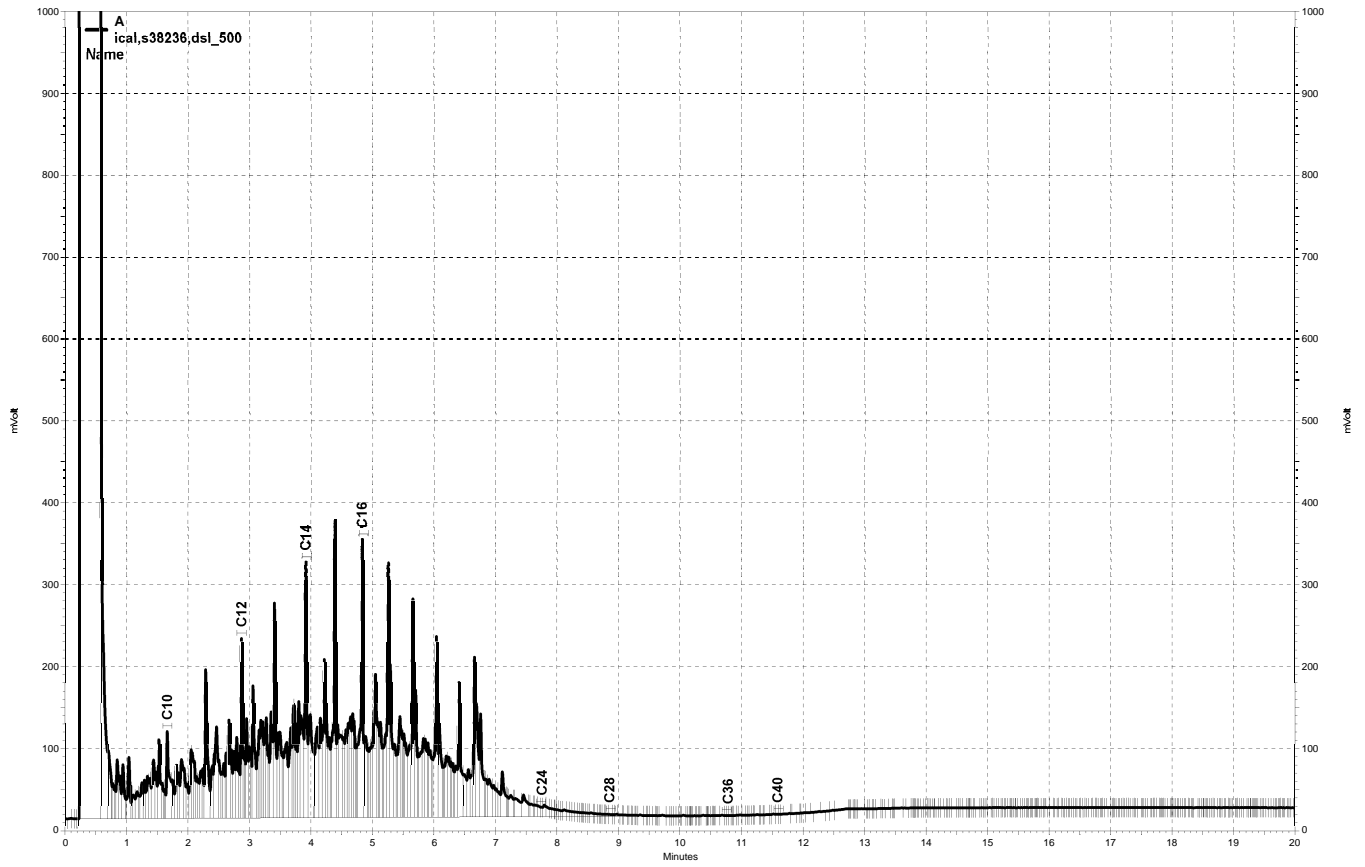
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\264a009_47F9.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010, A

Sample Name: ical,s38236,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
 Run Date: 9/21/2018 9:47:24 AM
 Analysis Date: 9/21/2018 5:26:02 PM
 Instrument: GC26A Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	17844420	0.000 CAL
DSL:10-14	11840937	500.000 CAL
DSL:10-22	28945236	500.000 CAL
DSL:10-24	29600328	500.000 CAL
DSL:10-28	29956354	500.000 CAL
DSL:12-24	25162588	500.000 CAL
DSL:12-28	25518614	500.000 CAL
DSL:14-24	18935860	500.000 CAL
DSL:16-24	13024442	500.000 CAL
MO:22-32	1364599	0.000 CAL
MO:24-36	513938	0.000 CAL
MO:28-40	76372	0.000 CAL
BUNKC:10-40	30022000	0.000 CAL
BUNKC:12-40	25584260	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

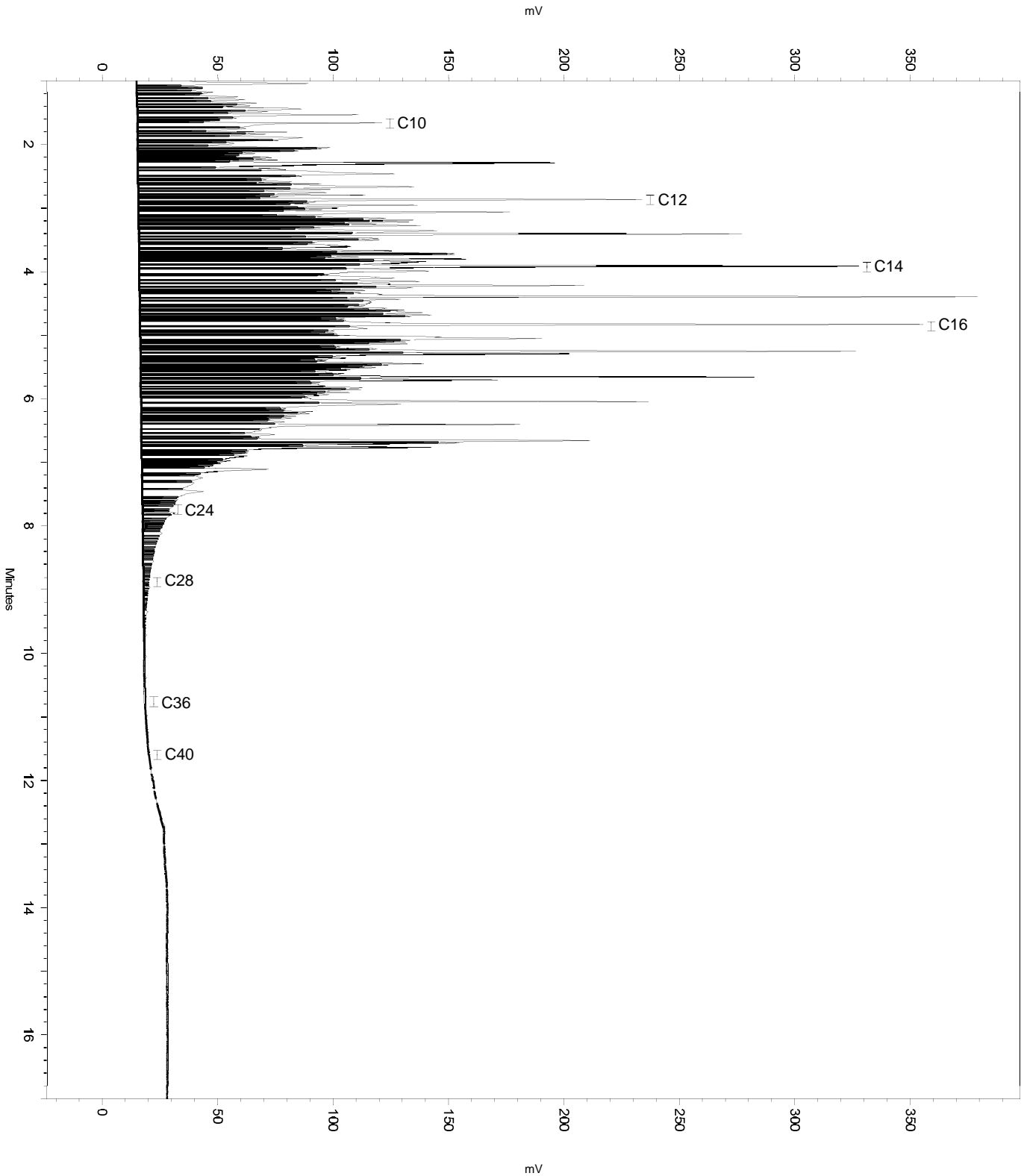
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	9.777	0.213	0

Sample Name: ical,s38236,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
Run Date: 9/21/2018 9:47:24 AM
Analysis Date: 9/21/2018 5:26:02 PM
Instrument: GC26A Vial: 10 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38236,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
 Run Date: 9/21/2018 9:47:24 AM
 Analysis Date: 9/21/2018 5:24:29 PM
 Instrument: GC26A Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	15002426	0.000 CAL
DSL:10-14	9629442	500.000 CAL
DSL:10-22	24996788	500.000 CAL
DSL:10-24	25465464	500.000 CAL
DSL:10-28	25615990	500.000 CAL
DSL:12-24	22214872	500.000 CAL
DSL:12-28	22365398	500.000 CAL
DSL:14-24	16895876	500.000 CAL
DSL:16-24	11615412	500.000 CAL
MO:22-32	877555	0.000 CAL
MO:24-36	231744	0.000 CAL
MO:28-40	25596	0.000 CAL
BUNKC:10-40	25641064	0.000 CAL
BUNKC:12-40	22390472	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

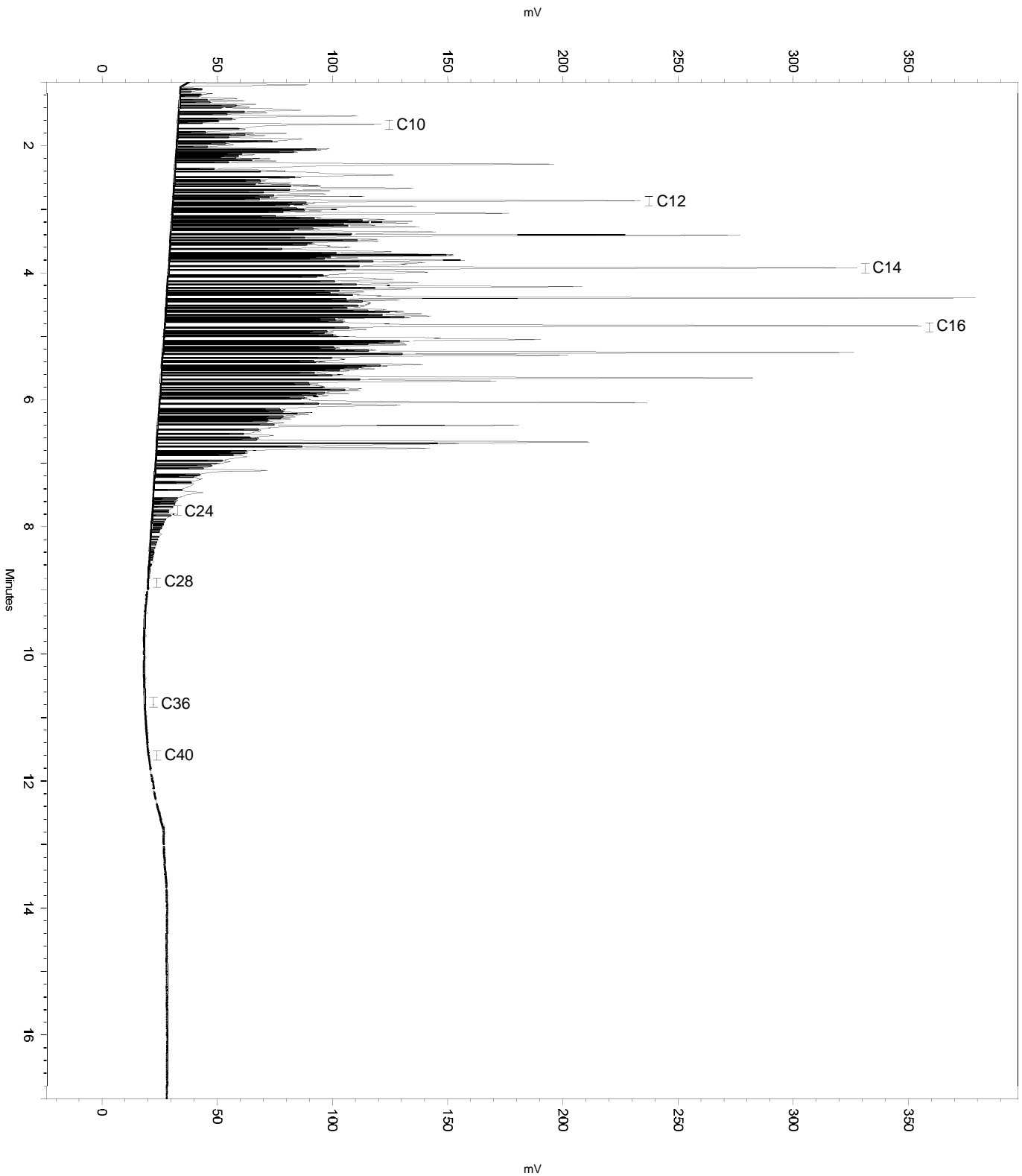
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	9.777	0.213	0

Sample Name: ical,s38236,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
Run Date: 9/21/2018 9:47:24 AM
Analysis Date: 9/21/2018 5:24:29 PM
Instrument: GC26A Vial: 10 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38236,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 9:47:24 AM
 Analysis Date: 9/24/2018 12:22:18 PM
 Instrument: GC26A Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	17844420	0.000 CAL
DSL:10-14	11840937	500.000 CAL
DSL:10-22	28945236	500.000 CAL
DSL:10-24	29600328	500.000 CAL
DSL:10-28	29956354	500.000 CAL
DSL:12-24	25162588	500.000 CAL
DSL:12-28	25518614	500.000 CAL
DSL:14-24	18935860	500.000 CAL
DSL:16-24	13024442	500.000 CAL
MO:22-32	1364599	0.000 CAL
MO:24-36	513938	0.000 CAL
MO:28-40	76372	0.000 CAL
BUNKC:10-40	30022000	0.000 CAL
BUNKC:12-40	25584260	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

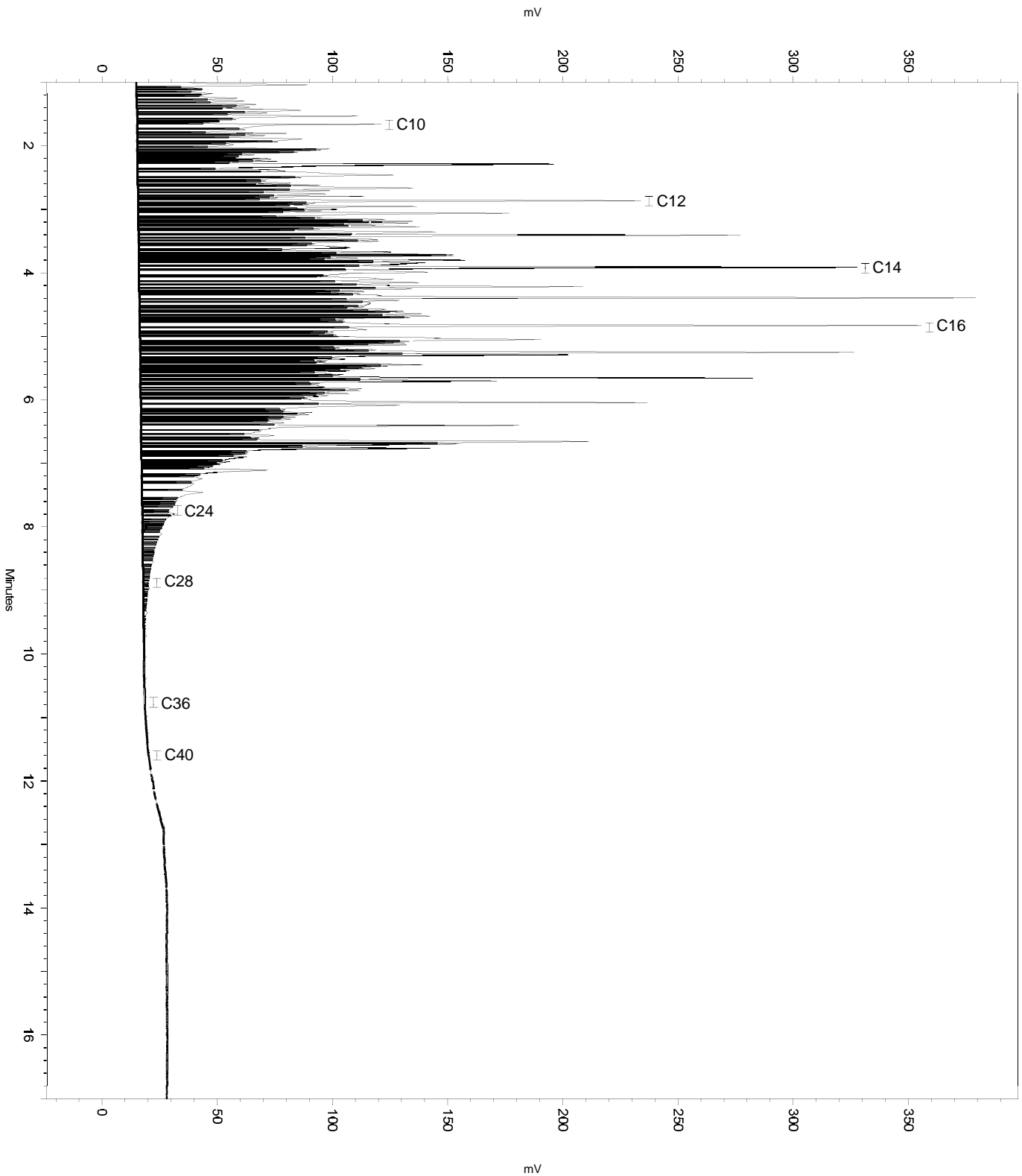
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	9.777	0.213	0

Sample Name: ical,s38236,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 9:47:24 AM
Analysis Date: 9/24/2018 12:22:18 PM
Instrument: GC26A Vial: 10 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38236,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 9:47:24 AM
 Analysis Date: 9/24/2018 12:20:39 PM
 Instrument: GC26A Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	15002426	0.000 CAL
DSL:10-14	9629442	500.000 CAL
DSL:10-22	24996788	500.000 CAL
DSL:10-24	25465464	500.000 CAL
DSL:10-28	25615990	500.000 CAL
DSL:12-24	22214872	500.000 CAL
DSL:12-28	22365398	500.000 CAL
DSL:14-24	16895876	500.000 CAL
DSL:16-24	11615412	500.000 CAL
MO:22-32	877555	0.000 CAL
MO:24-36	231744	0.000 CAL
MO:28-40	25596	0.000 CAL
BUNKC:10-40	25641064	0.000 CAL
BUNKC:12-40	22390472	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

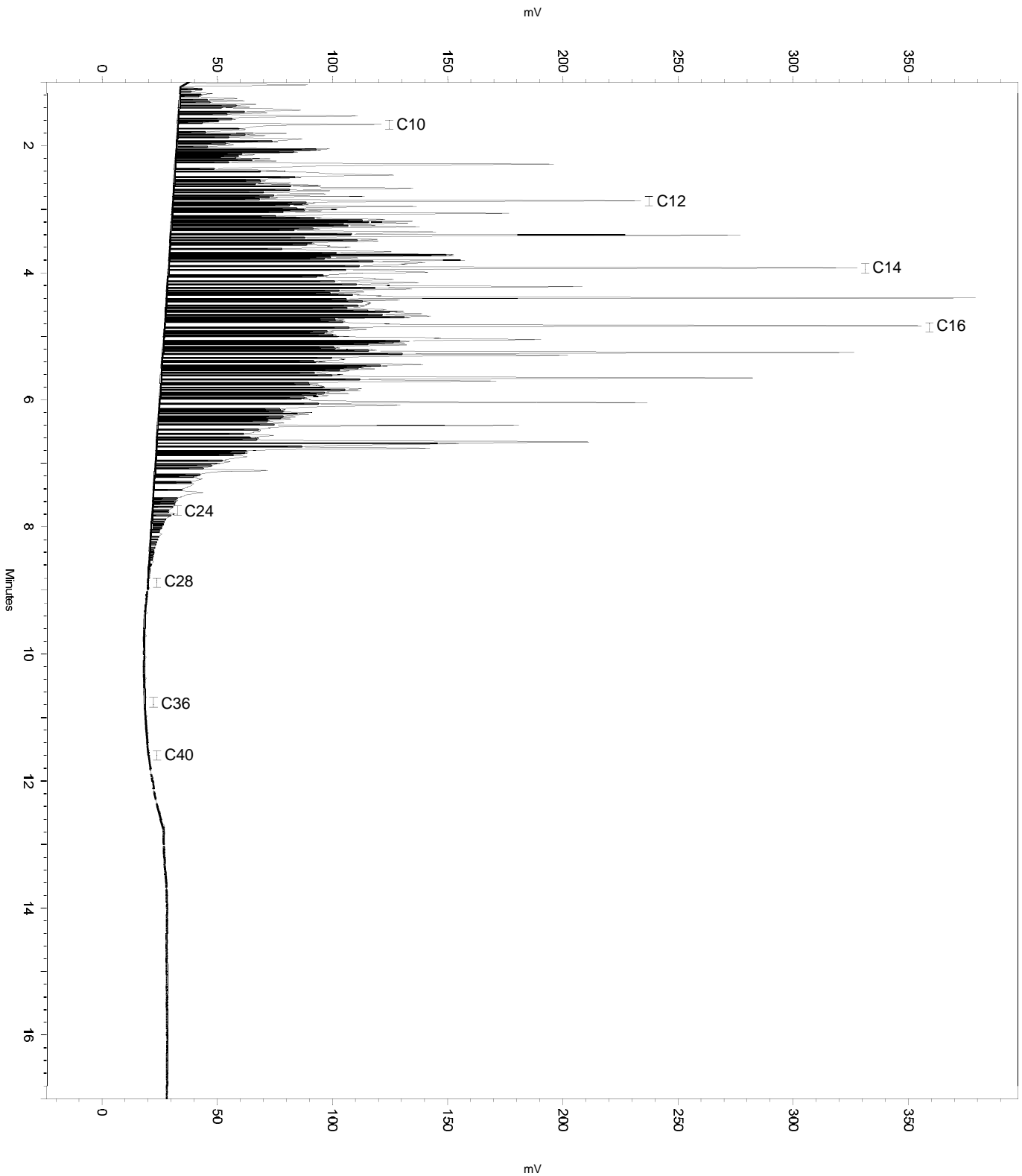
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	9.777	0.213	0

Sample Name: ical,s38236,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 9:47:24 AM
Analysis Date: 9/24/2018 12:20:39 PM
Instrument: GC26A Vial: 10 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

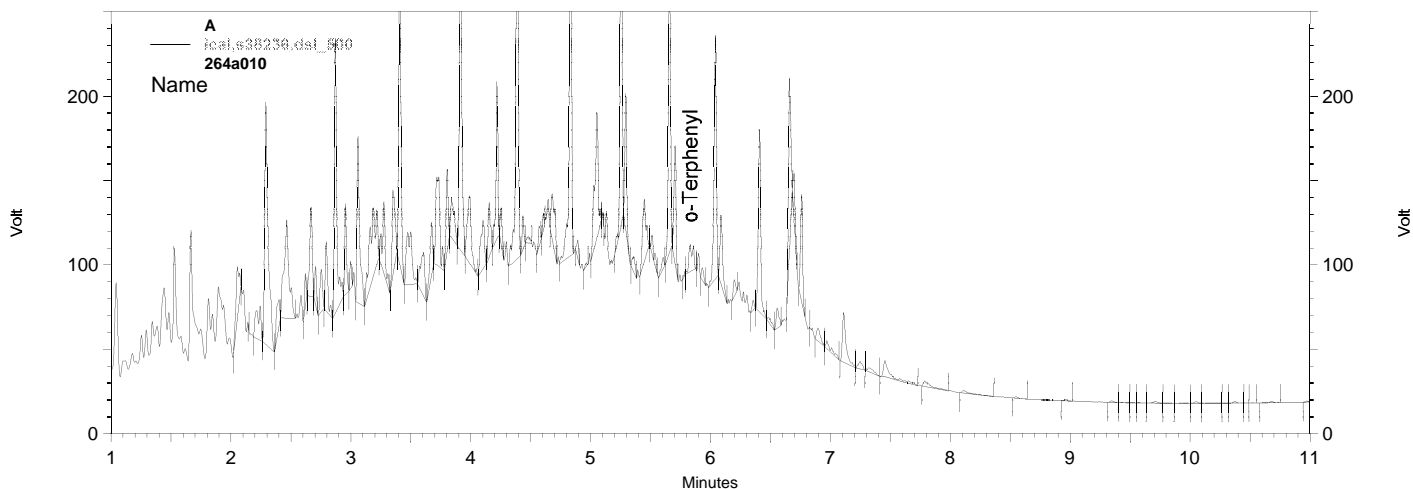


Sample Name: ical,s38236,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met
 Run Date: 9/21/2018 9:47:24 AM
 Analysis Date: 9/21/2018 10:07:33 AM
 Instrument: GC26A Vial: 10 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.830	39782	0.667
Hexacosane			0.000 BDL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met ical,s38236,dsl_500

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

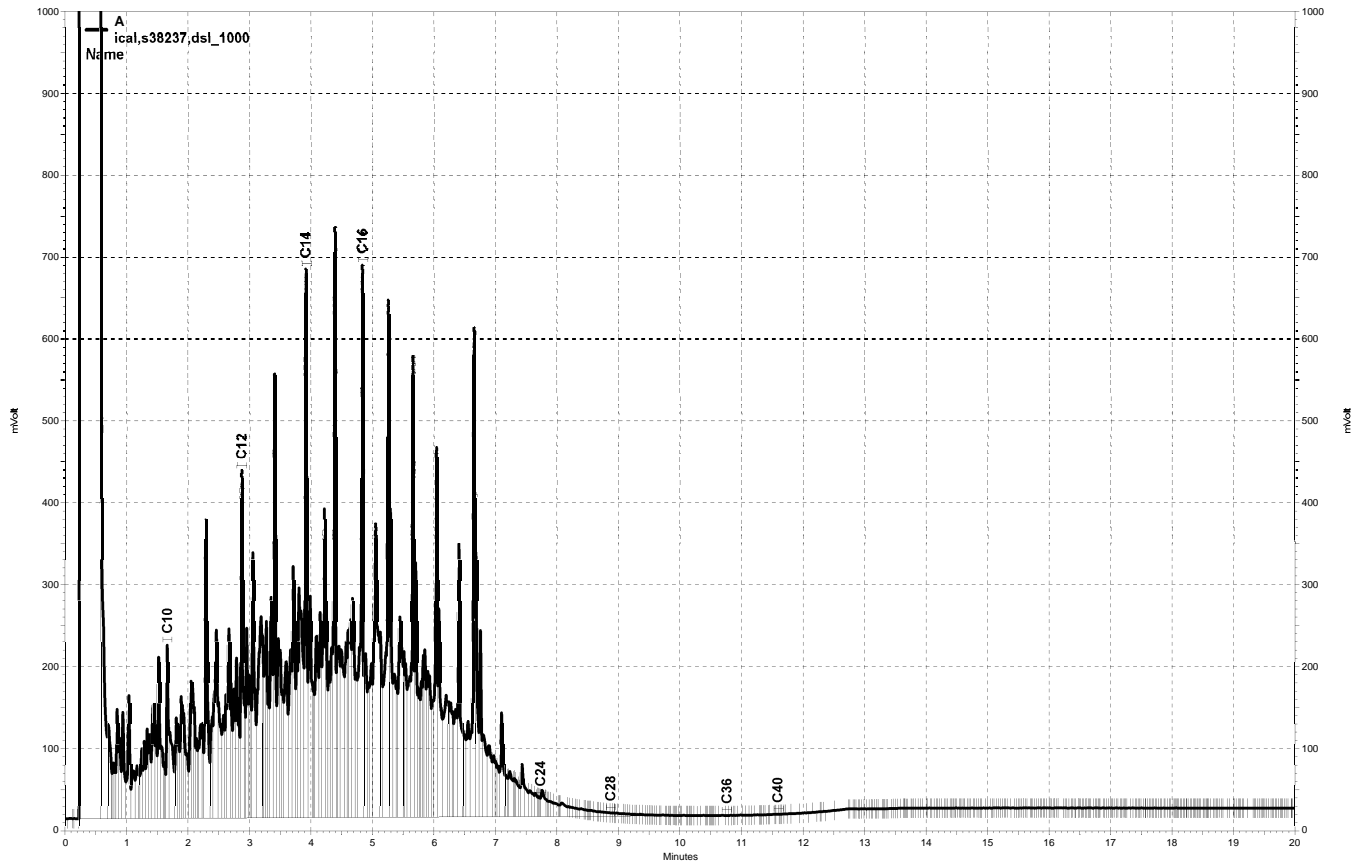
No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\264a010_47FA.tmp				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011, A

Sample Name: ical,s38237,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
 Run Date: 9/21/2018 10:16:47 AM
 Analysis Date: 9/21/2018 5:26:05 PM
 Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	35288420	0.000 CAL
DSL:10-14	23446488	1000.000 CAL
DSL:10-22	57830708	1000.000 CAL
DSL:10-24	59167512	1000.000 CAL
DSL:10-28	59825448	1000.000 CAL
DSL:12-24	50365880	1000.000 CAL
DSL:12-28	51023816	1000.000 CAL
DSL:14-24	37881064	1000.000 CAL
DSL:16-24	26244052	1000.000 CAL
MO:22-32	2599939	0.000 CAL
MO:24-36	960130	0.000 CAL
MO:28-40	135799	0.000 CAL
BUNKC:10-40	59927648	0.000 CAL
BUNKC:12-40	51126016	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

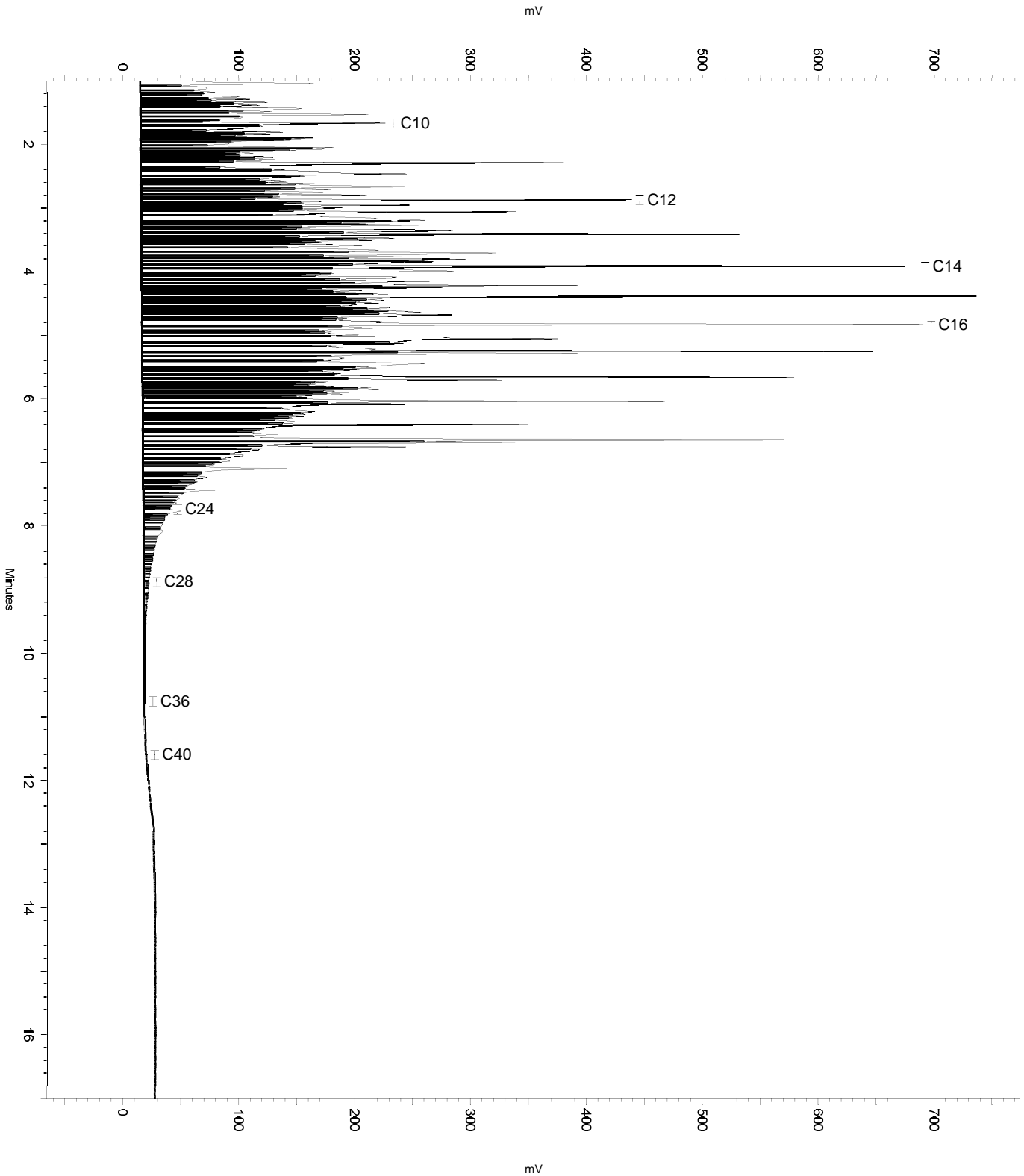
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	10.167	0.229	0

Sample Name: ical,s38237,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
Run Date: 9/21/2018 10:16:47 AM
Analysis Date: 9/21/2018 5:26:05 PM
Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38237,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
 Run Date: 9/21/2018 10:16:47 AM
 Analysis Date: 9/21/2018 5:25:12 PM
 Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	30069328	0.000 CAL
DSL:10-14	19388552	1000.000 CAL
DSL:10-22	50536200	1000.000 CAL
DSL:10-24	51520608	1000.000 CAL
DSL:10-28	51789824	1000.000 CAL
DSL:12-24	44908968	1000.000 CAL
DSL:12-28	45178184	1000.000 CAL
DSL:14-24	34102452	1000.000 CAL
DSL:16-24	23618860	1000.000 CAL
MO:22-32	1696812	0.000 CAL
MO:24-36	419757	0.000 CAL
MO:28-40	21434	0.000 CAL
BUNKC:10-40	51809488	0.000 CAL
BUNKC:12-40	45197848	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

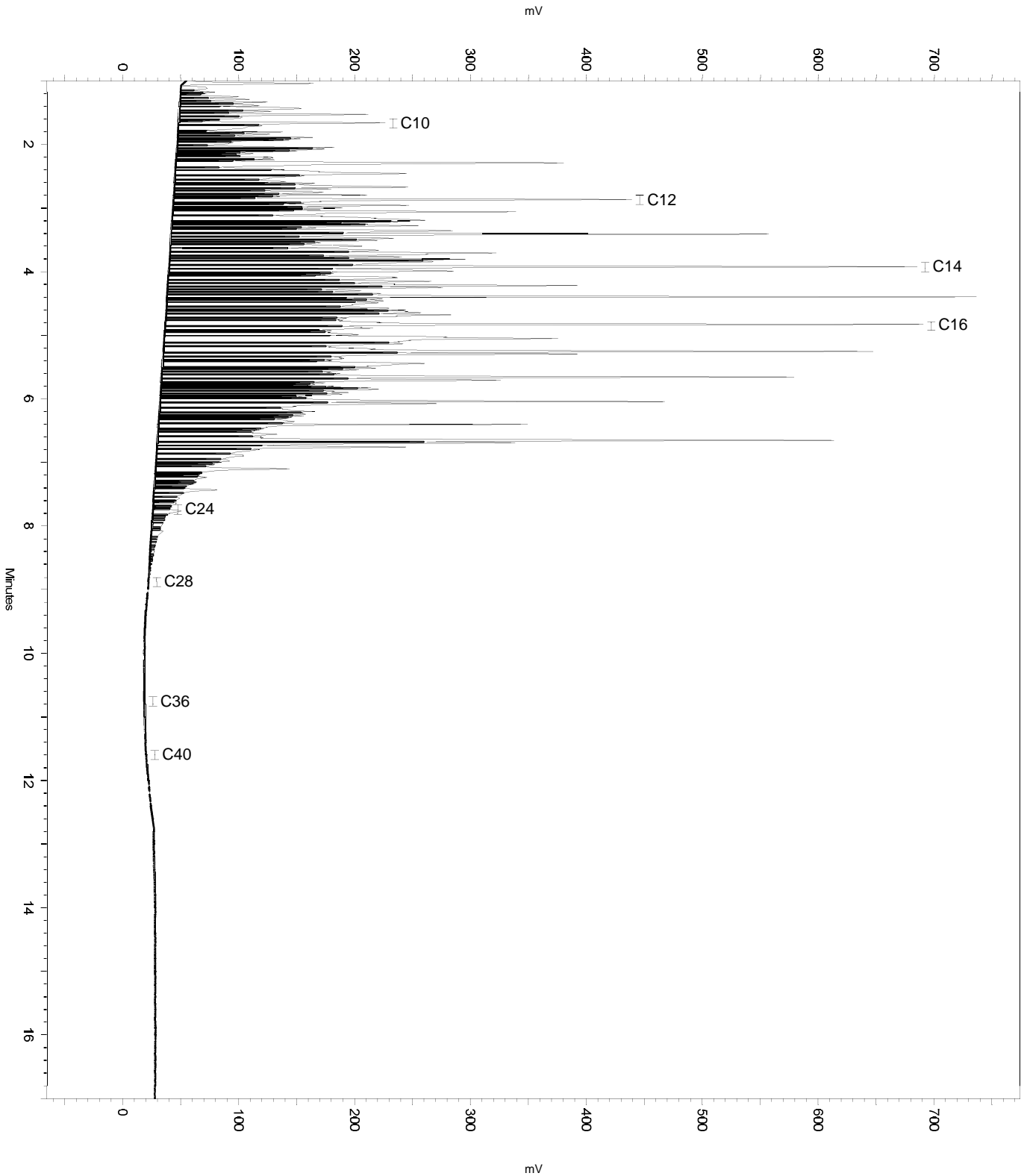
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	10.167	0.229	0

Sample Name: ical,s38237,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
Run Date: 9/21/2018 10:16:47 AM
Analysis Date: 9/21/2018 5:25:12 PM
Instrument: GC26A Vial: 11 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38237,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 10:16:47 AM
 Analysis Date: 9/24/2018 12:22:21 PM
 Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	35288420	0.000 CAL
DSL:10-14	23446488	1000.000 CAL
DSL:10-22	57830708	1000.000 CAL
DSL:10-24	59167512	1000.000 CAL
DSL:10-28	59825448	1000.000 CAL
DSL:12-24	50365880	1000.000 CAL
DSL:12-28	51023816	1000.000 CAL
DSL:14-24	37881064	1000.000 CAL
DSL:16-24	26244052	1000.000 CAL
MO:22-32	2599939	0.000 CAL
MO:24-36	960130	0.000 CAL
MO:28-40	135799	0.000 CAL
BUNKC:10-40	59927648	0.000 CAL
BUNKC:12-40	51126016	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

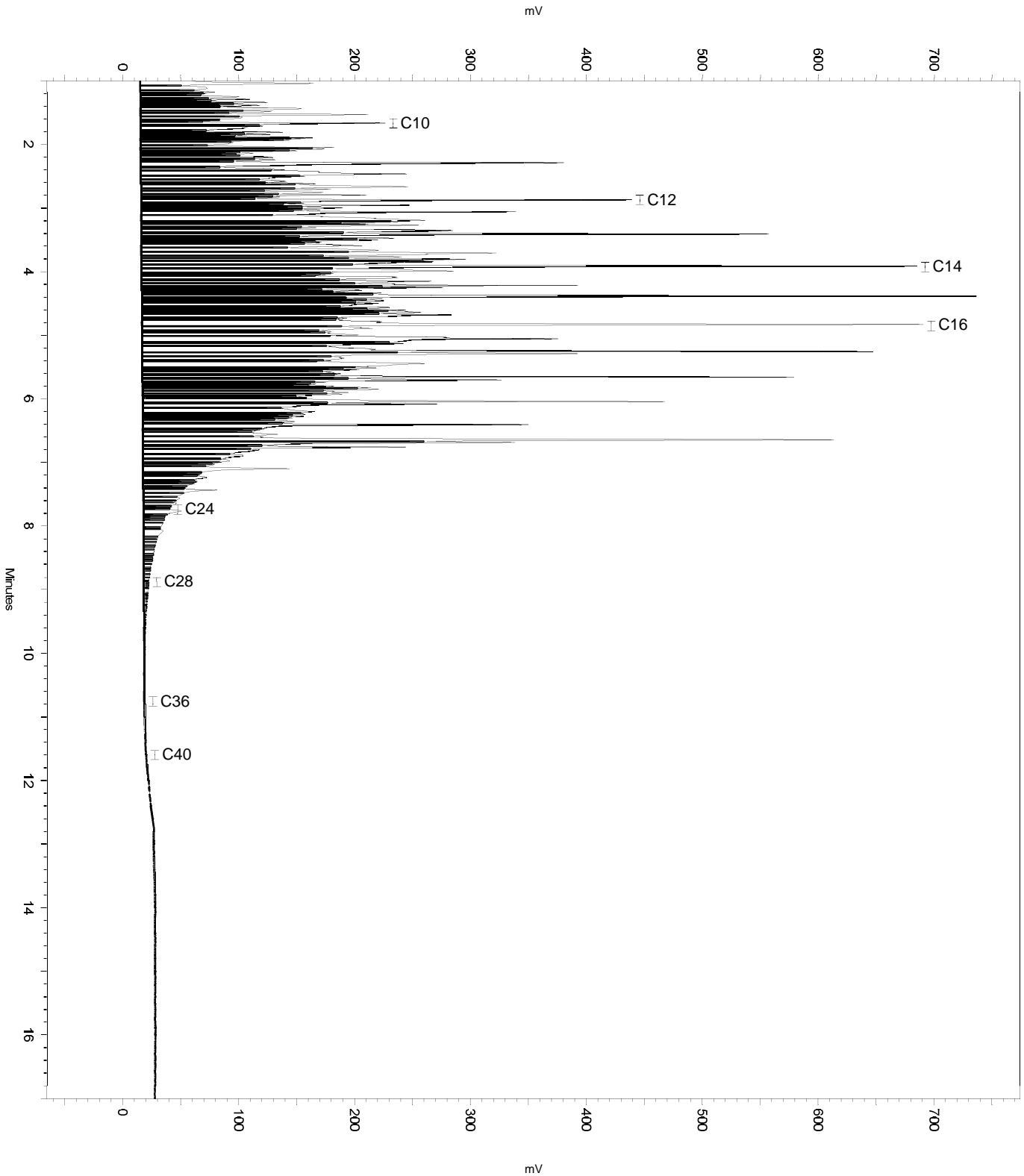
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	10.167	0.229	0

Sample Name: ical,s38237,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 10:16:47 AM
Analysis Date: 9/24/2018 12:22:21 PM
Instrument: GC26A Vial: 11 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38237,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 10:16:47 AM
 Analysis Date: 9/24/2018 12:20:48 PM
 Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	30069328	0.000 CAL
DSL:10-14	19388552	1000.000 CAL
DSL:10-22	50536200	1000.000 CAL
DSL:10-24	51520608	1000.000 CAL
DSL:10-28	51789824	1000.000 CAL
DSL:12-24	44908968	1000.000 CAL
DSL:12-28	45178184	1000.000 CAL
DSL:14-24	34102452	1000.000 CAL
DSL:16-24	23618860	1000.000 CAL
MO:22-32	1696812	0.000 CAL
MO:24-36	419757	0.000 CAL
MO:28-40	21434	0.000 CAL
BUNKC:10-40	51809488	0.000 CAL
BUNKC:12-40	45197848	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

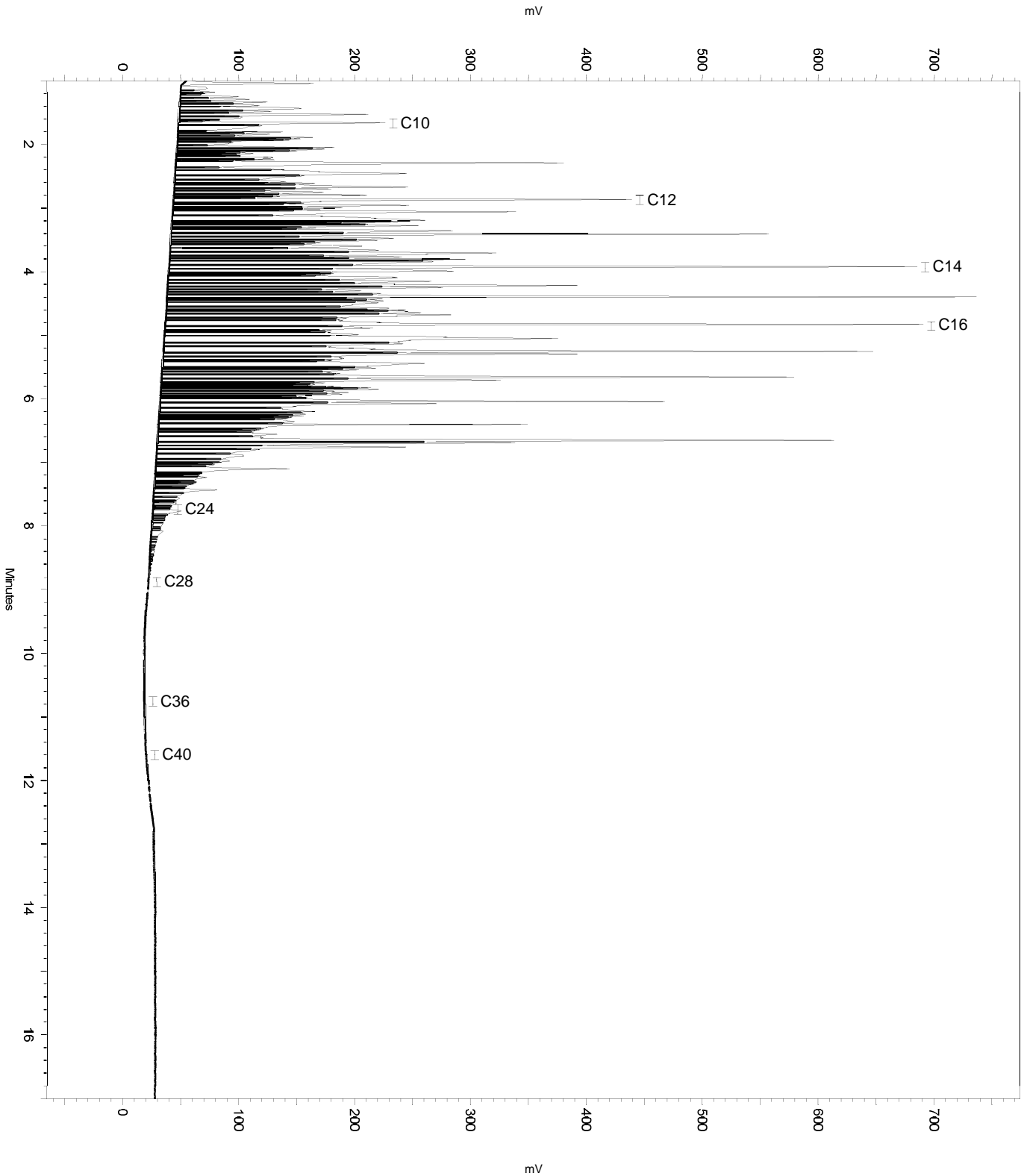
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	10.167	0.229	0

Sample Name: ical,s38237,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264a011.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 10:16:47 AM
Analysis Date: 9/24/2018 12:20:48 PM
Instrument: GC26A Vial: 11 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1

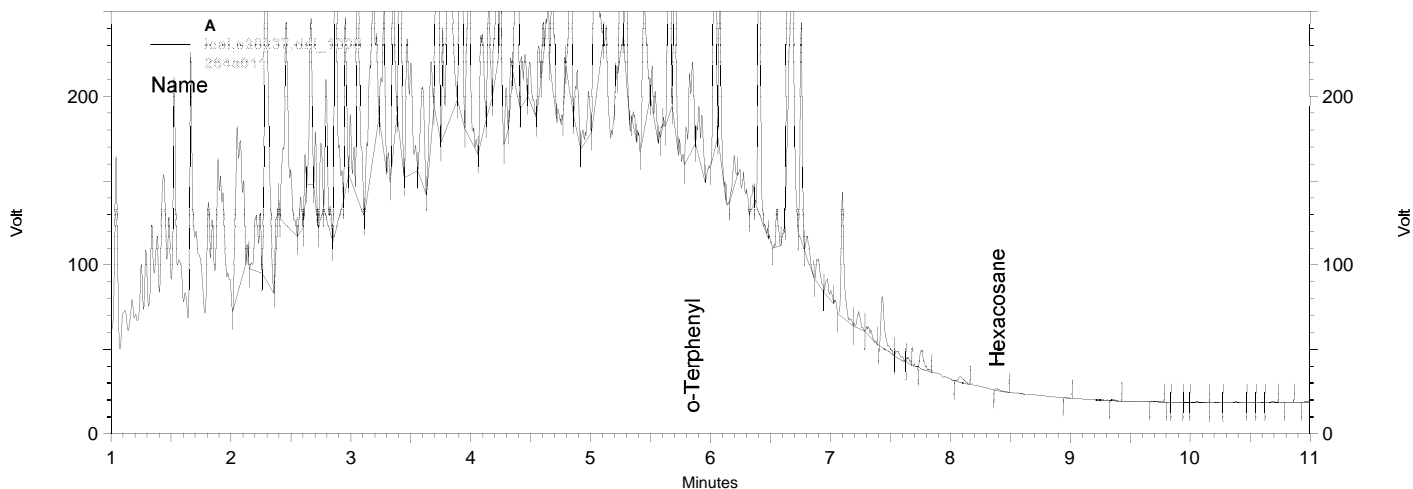


Sample Name: ical,s38237,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264a011.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met
 Run Date: 9/21/2018 10:16:47 AM
 Analysis Date: 9/21/2018 10:36:57 AM
 Instrument: GC26A Vial: 11 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.852	151059	2.531
Hexacosane	8.393	3772	0.090



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met ical,s38237,dsl_1000

 << General Method Parameters >>-----

No items selected for this section

 << A >>-----

No items selected for this section

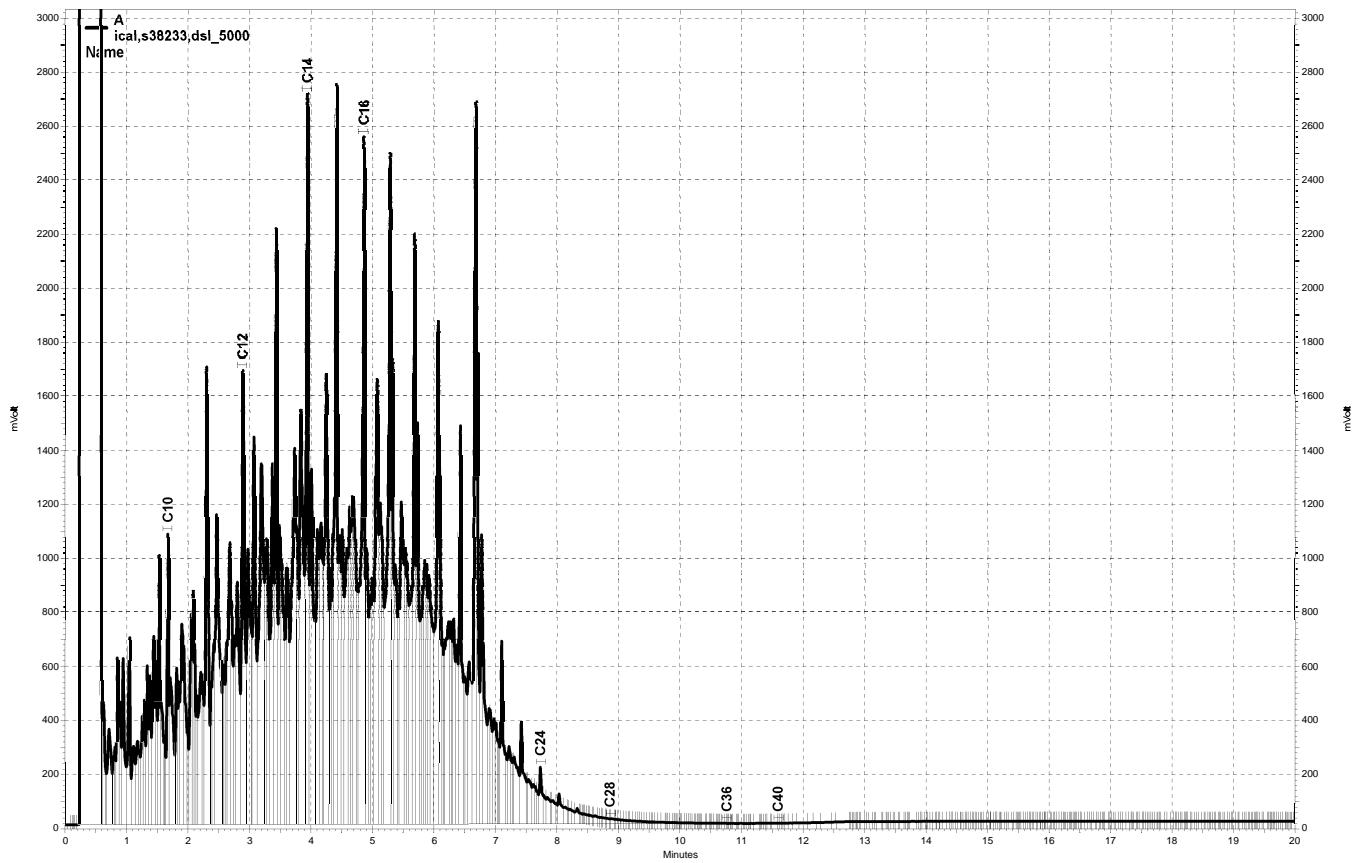
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\264a011_47FB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a012, A

Sample Name: ical,s38233,ds1_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
 Run Date: 9/21/2018 10:45:54 AM
 Analysis Date: 9/21/2018 5:26:08 PM
 Instrument: GC26A Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	176652624	0.000 CAL
DSL:10-14	113392168	5000.000 CAL
DSL:10-22	290406848	5000.000 CAL
DSL:10-24	297204032	5000.000 CAL
DSL:10-28	300320064	5000.000 CAL
DSL:12-24	255775168	5000.000 CAL
DSL:12-28	258891264	5000.000 CAL
DSL:14-24	190927584	5000.000 CAL
DSL:16-24	132489608	5000.000 CAL
MO:22-32	13478606	0.000 CAL
MO:24-36	4751676	0.000 CAL
MO:28-40	673615	0.000 CAL
BUNKC:10-40	300840288	0.000 CAL
BUNKC:12-40	259411328	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

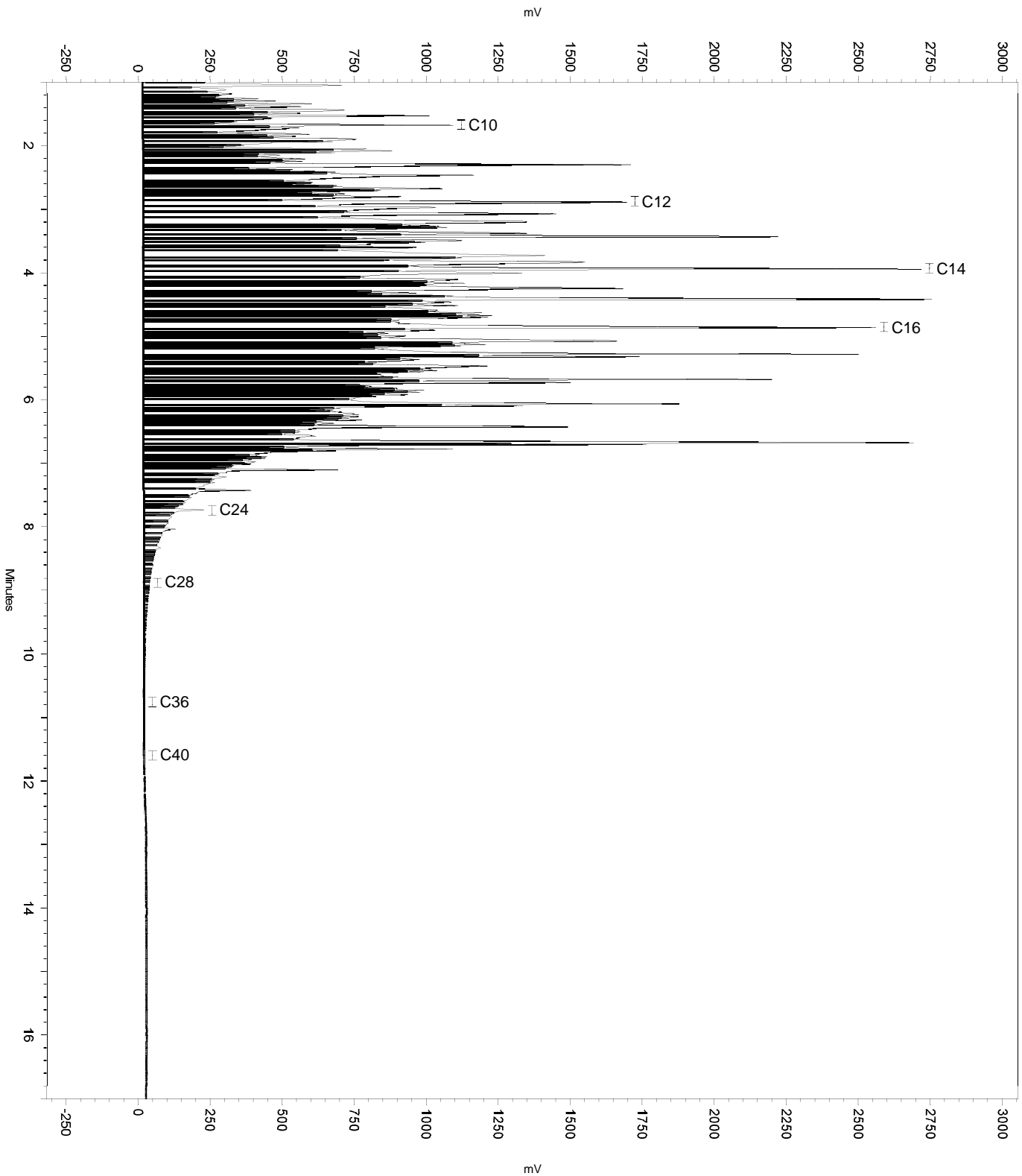
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	10.913	0.188	0

Sample Name: ical,s38233,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a012
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
Run Date: 9/21/2018 10:45:54 AM
Analysis Date: 9/21/2018 5:26:08 PM
Instrument: GC26A Vial: 12 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38233,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
 Run Date: 9/21/2018 10:45:54 AM
 Analysis Date: 9/21/2018 5:25:28 PM
 Instrument: GC26A Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	151650080	0.000 CAL
DSL:10-14	94378880	5000.000 CAL
DSL:10-22	255630912	5000.000 CAL
DSL:10-24	260765024	5000.000 CAL
DSL:10-28	262060000	5000.000 CAL
DSL:12-24	229408864	5000.000 CAL
DSL:12-28	230703840	5000.000 CAL
DSL:14-24	172978432	5000.000 CAL
DSL:16-24	120084928	5000.000 CAL
MO:22-32	9085755	0.000 CAL
MO:24-36	2078690	0.000 CAL
MO:28-40	35303	0.000 CAL
BUNKC:10-40	262088928	0.000 CAL
BUNKC:12-40	230732768	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

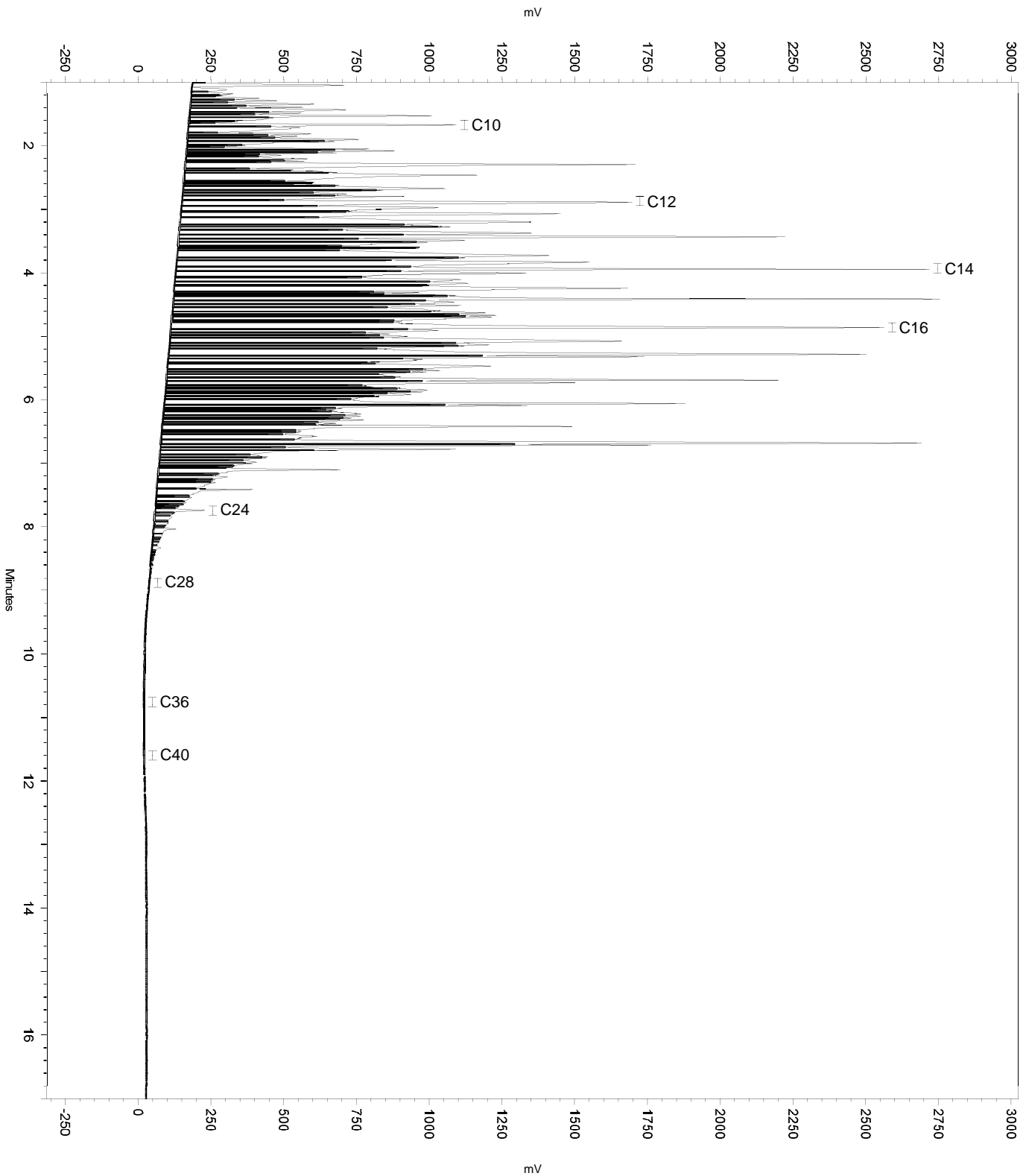
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a012				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	10.913	0.188	0

Sample Name: ical,s38233,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a012
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH256d.met
Run Date: 9/21/2018 10:45:54 AM
Analysis Date: 9/21/2018 5:25:28 PM
Instrument: GC26A Vial: 12 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38233,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 10:45:54 AM
 Analysis Date: 9/24/2018 12:22:23 PM
 Instrument: GC26A Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	176652624	0.000 CAL
DSL:10-14	113392168	5000.000 CAL
DSL:10-22	290406848	5000.000 CAL
DSL:10-24	297204032	5000.000 CAL
DSL:10-28	300320064	5000.000 CAL
DSL:12-24	255775168	5000.000 CAL
DSL:12-28	258891264	5000.000 CAL
DSL:14-24	190927584	5000.000 CAL
DSL:16-24	132489608	5000.000 CAL
MO:22-32	13478606	0.000 CAL
MO:24-36	4751676	0.000 CAL
MO:28-40	673615	0.000 CAL
BUNKC:10-40	300840288	0.000 CAL
BUNKC:12-40	259411328	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

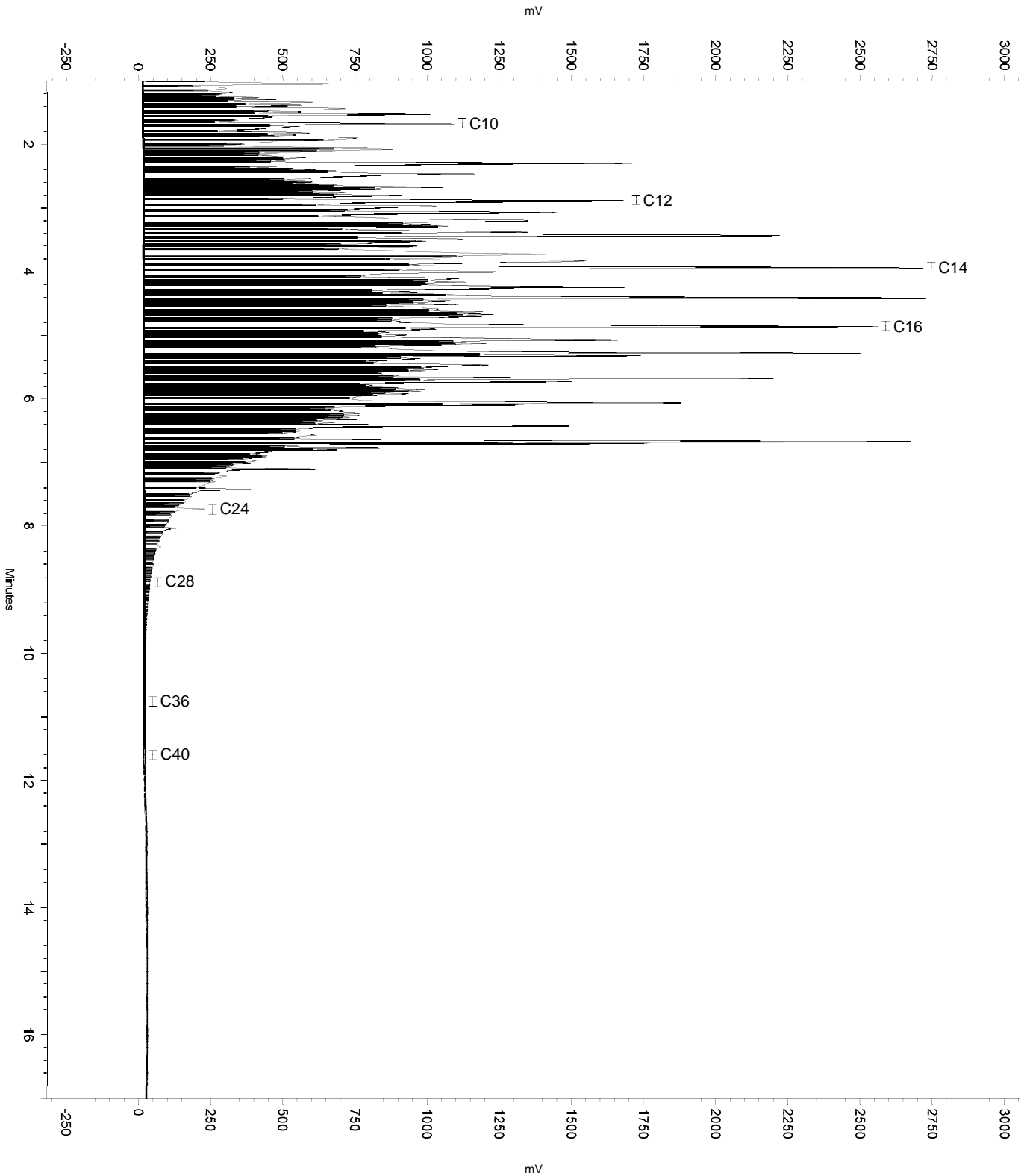
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	10.913	0.188	0

Sample Name: ical,s38233,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a012
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 10:45:54 AM
Analysis Date: 9/24/2018 12:22:23 PM
Instrument: GC26A Vial: 12 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1



Sample Name: ical,s38233,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 10:45:54 AM
 Analysis Date: 9/24/2018 12:20:57 PM
 Instrument: GC26A Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	151650080	0.000 CAL
DSL:10-14	94378880	5000.000 CAL
DSL:10-22	255630912	5000.000 CAL
DSL:10-24	260765024	5000.000 CAL
DSL:10-28	262060000	5000.000 CAL
DSL:12-24	229408864	5000.000 CAL
DSL:12-28	230703840	5000.000 CAL
DSL:14-24	172978432	5000.000 CAL
DSL:16-24	120084928	5000.000 CAL
MO:22-32	9085755	0.000 CAL
MO:24-36	2078690	0.000 CAL
MO:28-40	35303	0.000 CAL
BUNKC:10-40	262088928	0.000 CAL
BUNKC:12-40	230732768	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

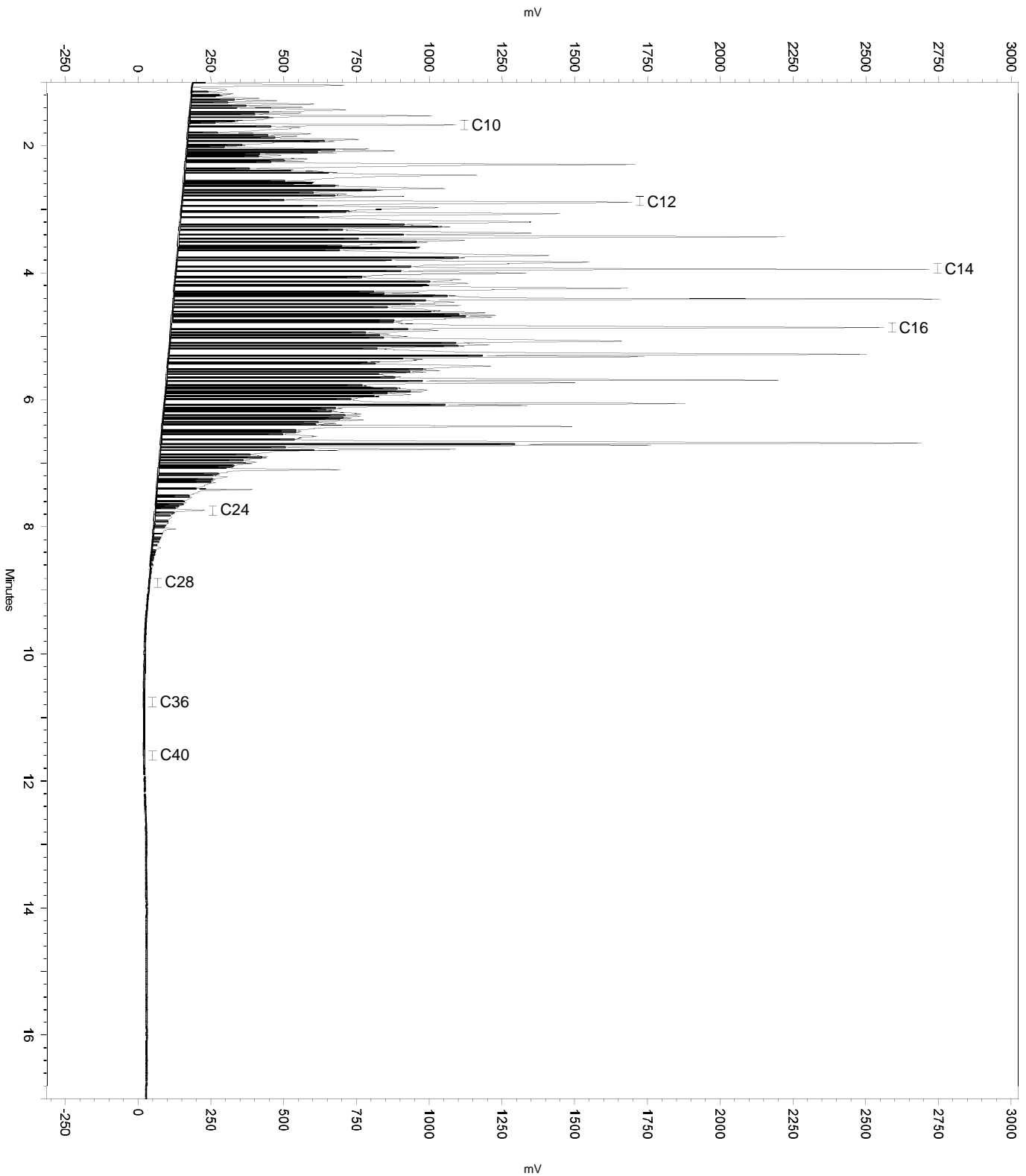
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	10.913	0.188	0

Sample Name: ical,s38233,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a012
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 10:45:54 AM
Analysis Date: 9/24/2018 12:20:57 PM
Instrument: GC26A Vial: 12 Operator: teh analyst (lms2k3\teh)
Sample Amount: 1

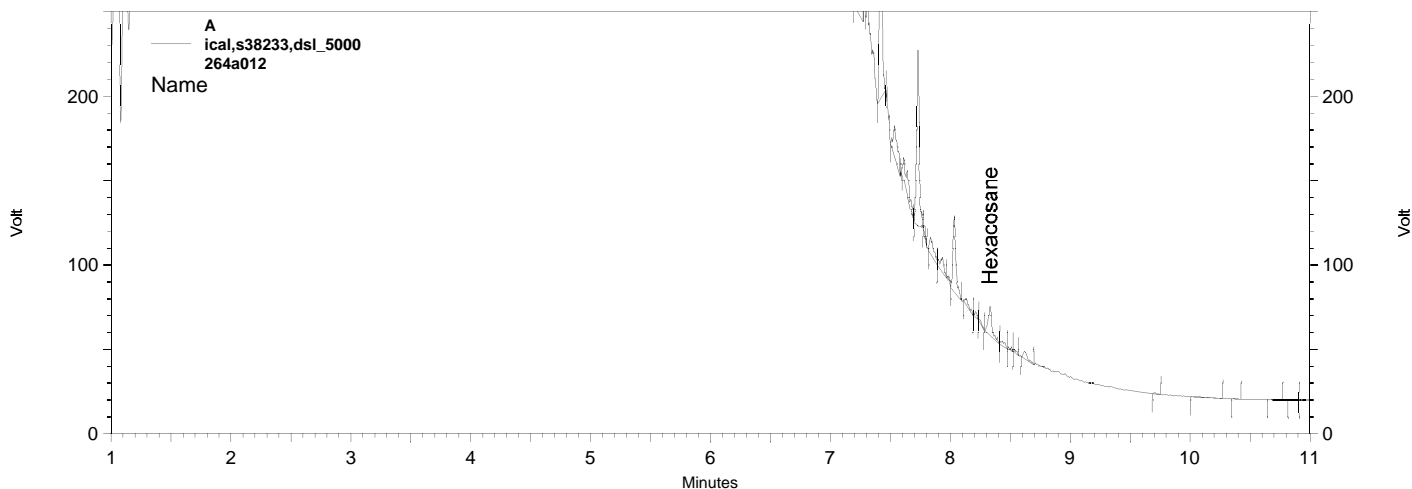


Sample Name: ical,s38233,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264a012.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met
 Run Date: 9/21/2018 10:45:54 AM
 Analysis Date: 9/21/2018 11:06:03 AM
 Instrument: GC26A Vial: 12 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.848	578681	9.697
Hexacosane	8.330	37865	0.905



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met ical,s38233,dsl_5000

 << General Method Parameters >-----

No items selected for this section

 << A >-----

No items selected for this section

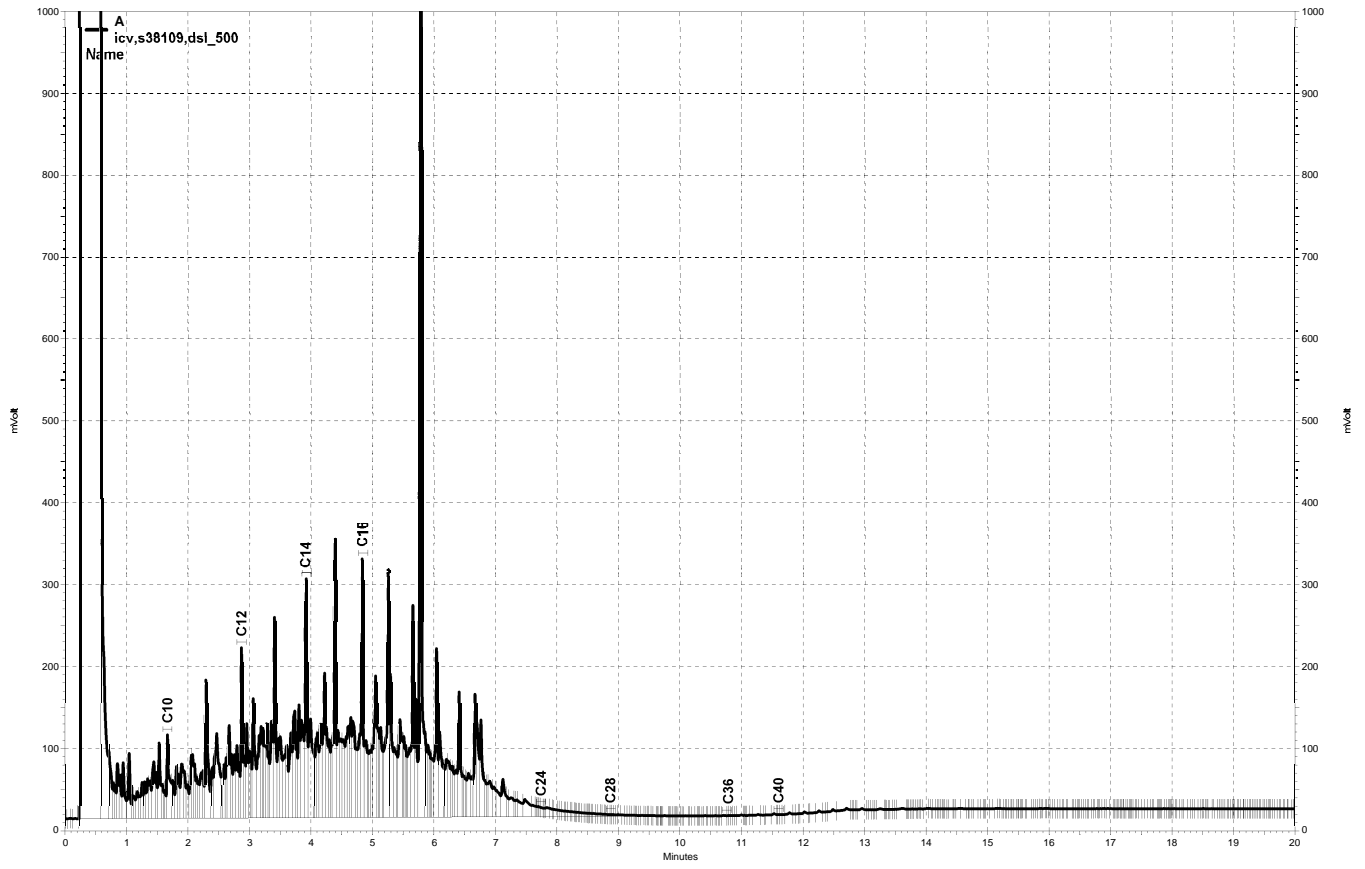
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\264a012_47FC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a014, A

Sample Name: icv,s38109,dsi_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a014
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 11:43:12 AM
 Analysis Date: 9/24/2018 12:35:04 PM
 Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	16830302	361.869
DSL:10-14	11212251	515.363
DSL:10-22	30867604	558.264
DSL:10-24	31437040	552.562
DSL:10-28	31785600	551.513
DSL:12-24	27411108	565.583
DSL:12-28	27759668	564.159
DSL:14-24	21342020	579.110
DSL:16-24	15772400	601.806
MO:22-32	1199137	34.007
MO:24-36	488719	13.929
MO:28-40	74197	3.523
BUNKC:10-40	31843822	1533.754
BUNKC:12-40	27817890	1384.629

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

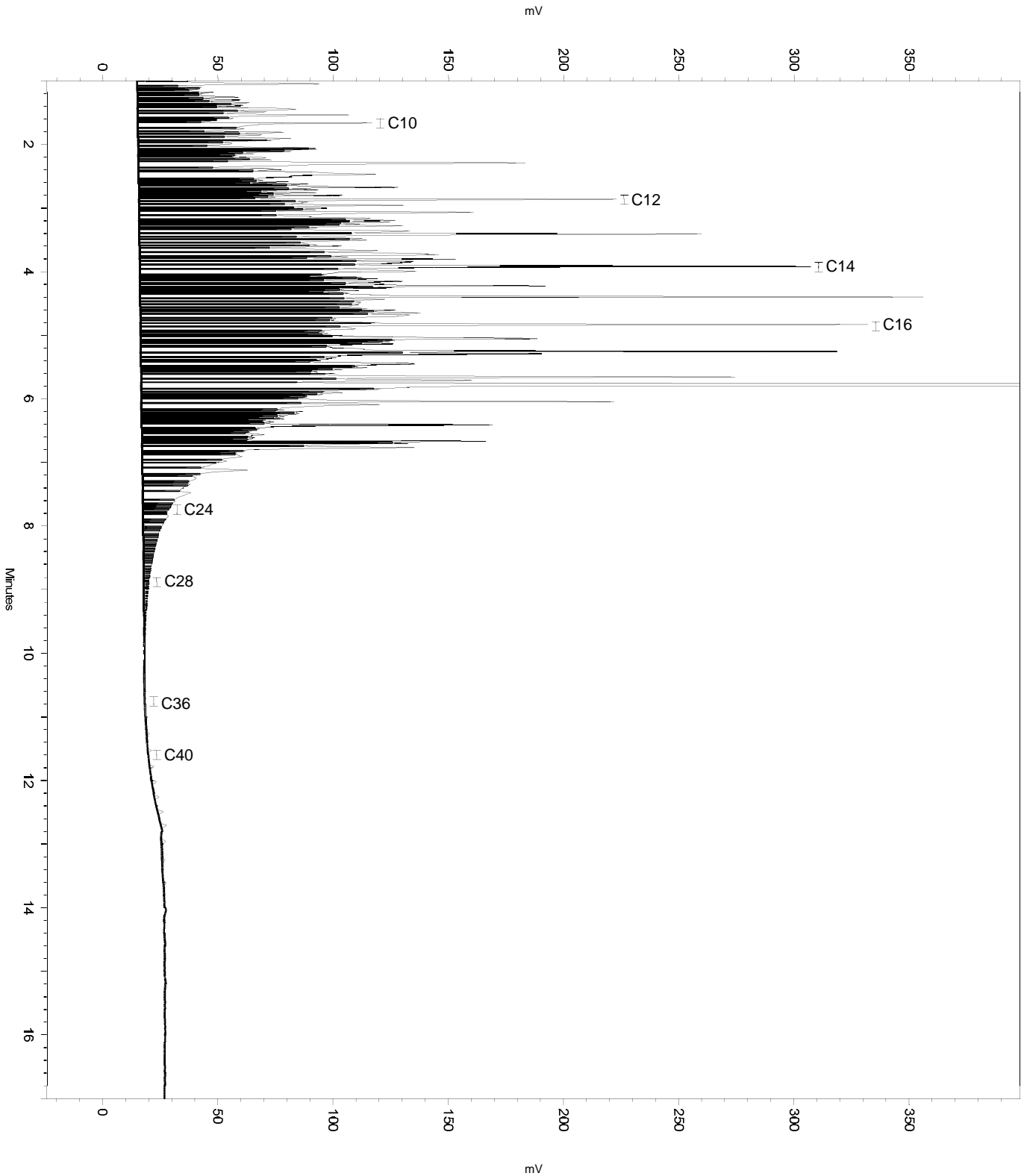
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	5.741	6.163	0
No	Split Peak	5.747	0	0
No	Split Peak	5.821	0	0
Yes	Move BL Start	9.815	0.223	0

Sample Name: icv,s38109,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a014
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 11:43:12 AM
Analysis Date: 9/24/2018 12:35:04 PM
Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: icv,s38109,dsi_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a014
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
 Run Date: 9/21/2018 11:43:12 AM
 Analysis Date: 9/24/2018 12:34:43 PM
 Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	14244578	306.273
DSL:10-14	9192448	422.524
DSL:10-22	27247332	492.789
DSL:10-24	27653572	486.061
DSL:10-28	27805426	482.453
DSL:12-24	24673344	509.094
DSL:12-28	24825198	504.522
DSL:14-24	19471572	528.356
DSL:16-24	14473855	552.259
MO:22-32	760161	21.558
MO:24-36	221239	6.306
MO:28-40	23481	1.115
BUNKC:10-40	27827802	1340.323
BUNKC:12-40	24847574	1236.783

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

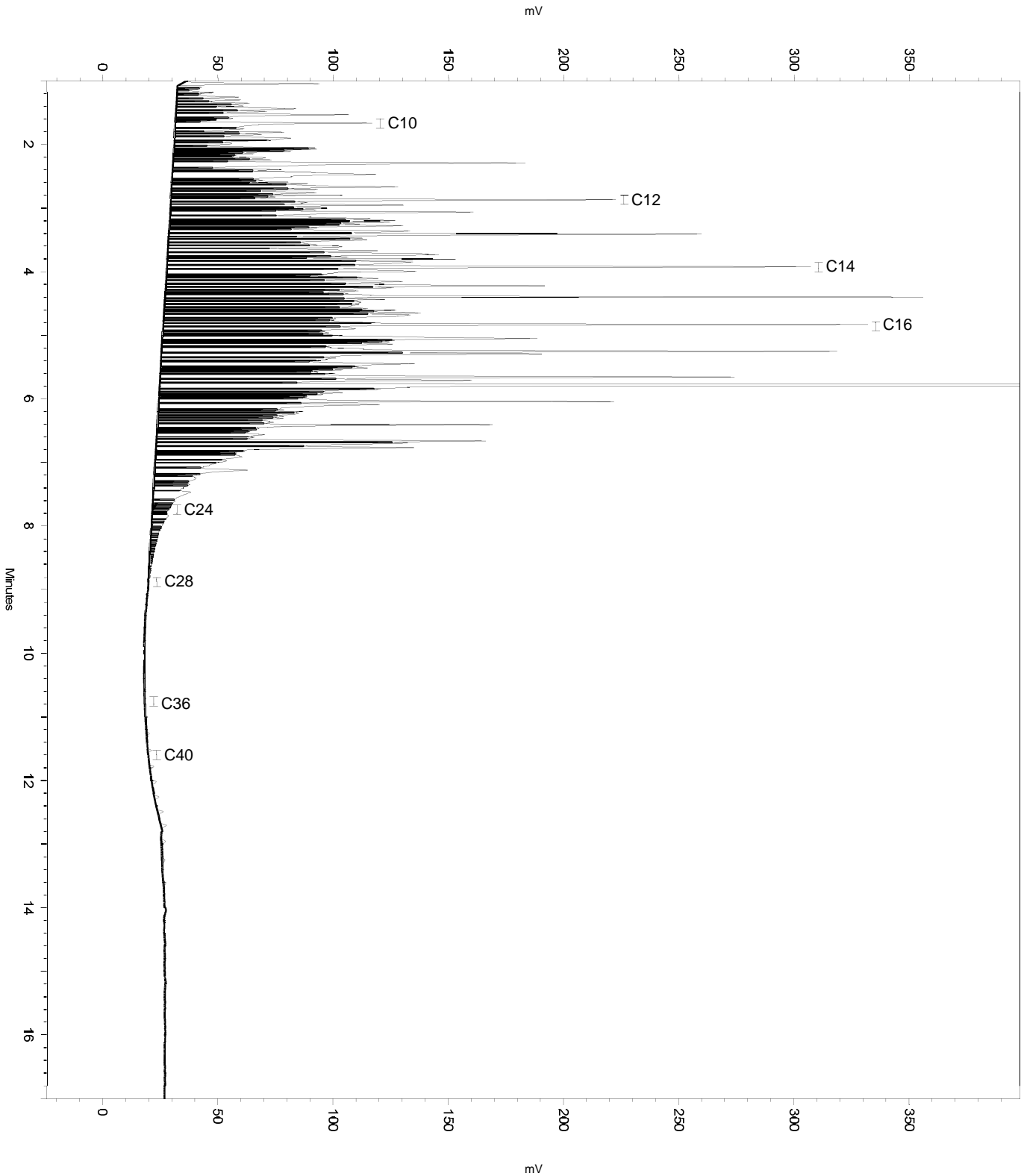
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	5.741	6.163	0
No	Split Peak	5.747	0	0
No	Split Peak	5.821	0	0

Sample Name: icv,s38109,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a014
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\TEH264.met
Run Date: 9/21/2018 11:43:12 AM
Analysis Date: 9/24/2018 12:34:43 PM
Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

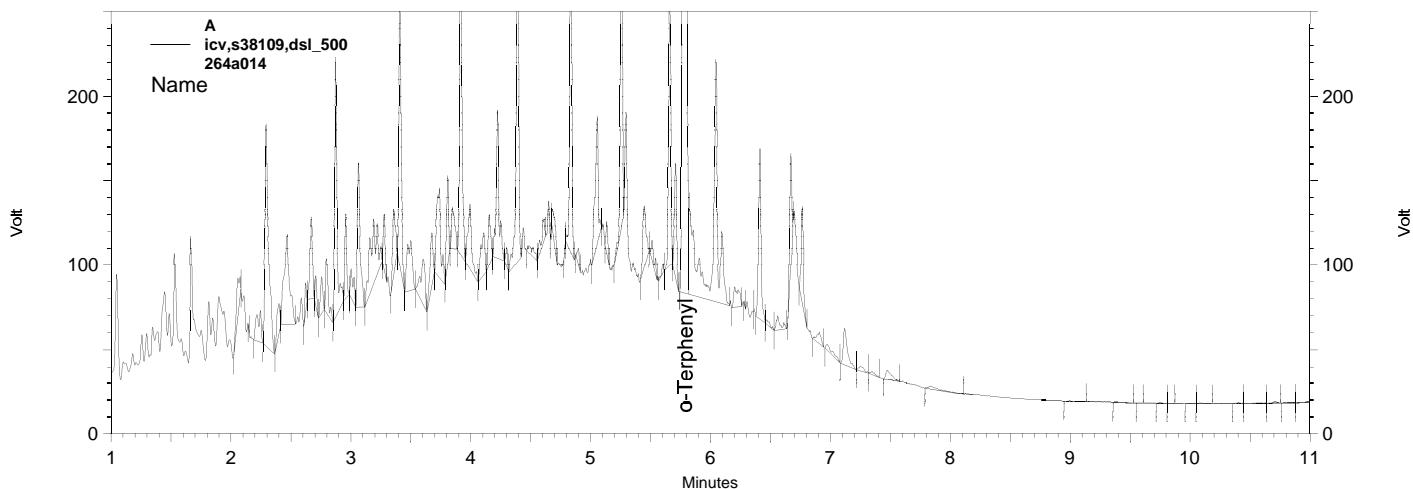


Sample Name: icv,s38109,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a014
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264a014.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met
 Run Date: 9/21/2018 11:43:12 AM
 Analysis Date: 9/24/2018 12:34:32 PM
 Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.792	3403731	57.037
Hexacosane			0.000 BDL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256\icv,s38109,dsl_500

 << General Method Parameters >>-----

No items selected for this section

 << A >>-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

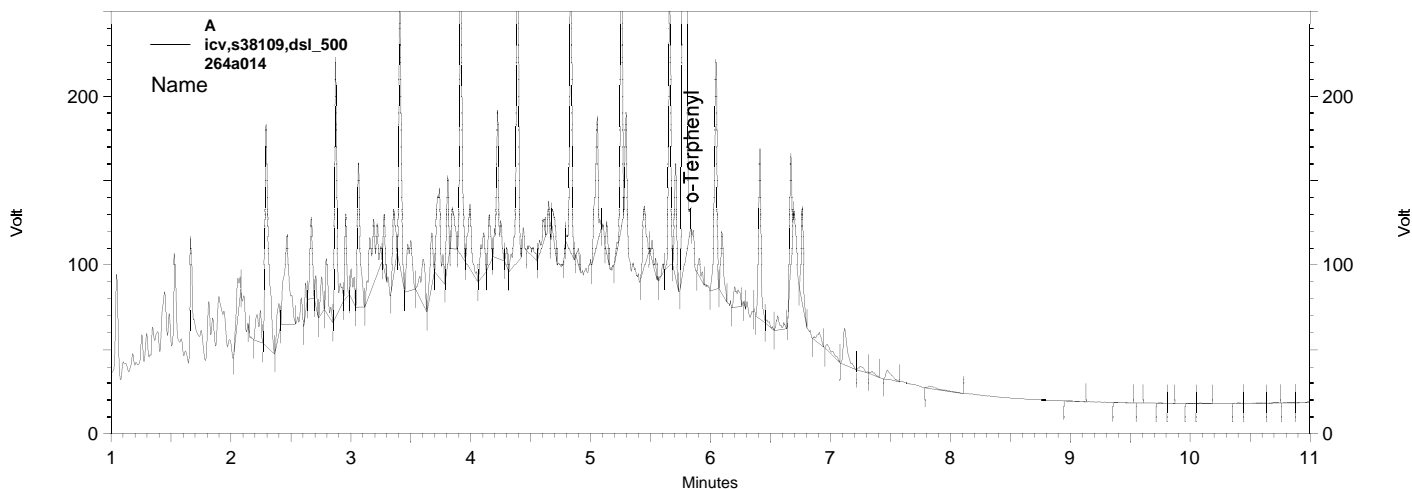
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a014				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	5.741	6.163	0
Yes	Split Peak	5.747	0	0
Yes	Split Peak	5.821	0	0

Sample Name: icv,s38109,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a014
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\264.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256.met
 Run Date: 9/21/2018 11:43:12 AM
 Analysis Date: 9/24/2018 12:34:16 PM
 Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.837	0	0.000
Hexacosane			0.000 BDL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr256\icv,s38109,dsl_500

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\264a014				
None				

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC26A
 Calnum : 868397771001
 Units : mg/L

Name : Hexotp_276
 Date : 03-OCT-2018 08:28
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	276a006	868397771006	HEX OTP_2.5	03-OCT-2018 08:28	S38295 (2X)
L2	276a007	868397771007	HEX OTP_5	03-OCT-2018 08:56	S38295
L3	276a008	868397771008	HEX OTP_10	03-OCT-2018 09:23	S38296
L4	276a009	868397771009	HEX OTP_25	03-OCT-2018 09:51	S38297
L5	276a010	868397771010	HEX OTP_50	03-OCT-2018 10:19	S38299 (2X)
L6	276a011	868397771011	HEX OTP_100	03-OCT-2018 10:46	S38299

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	64460	65925	67498	68082	72483	67987	AVRG		1.48E-5		67739	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	-5	5.0000	-3	10.000	0	25.000	1	50.000	7	100.00	0

WA1 10/03/18 : Corrected automatically drawn baseline in multiple levels.

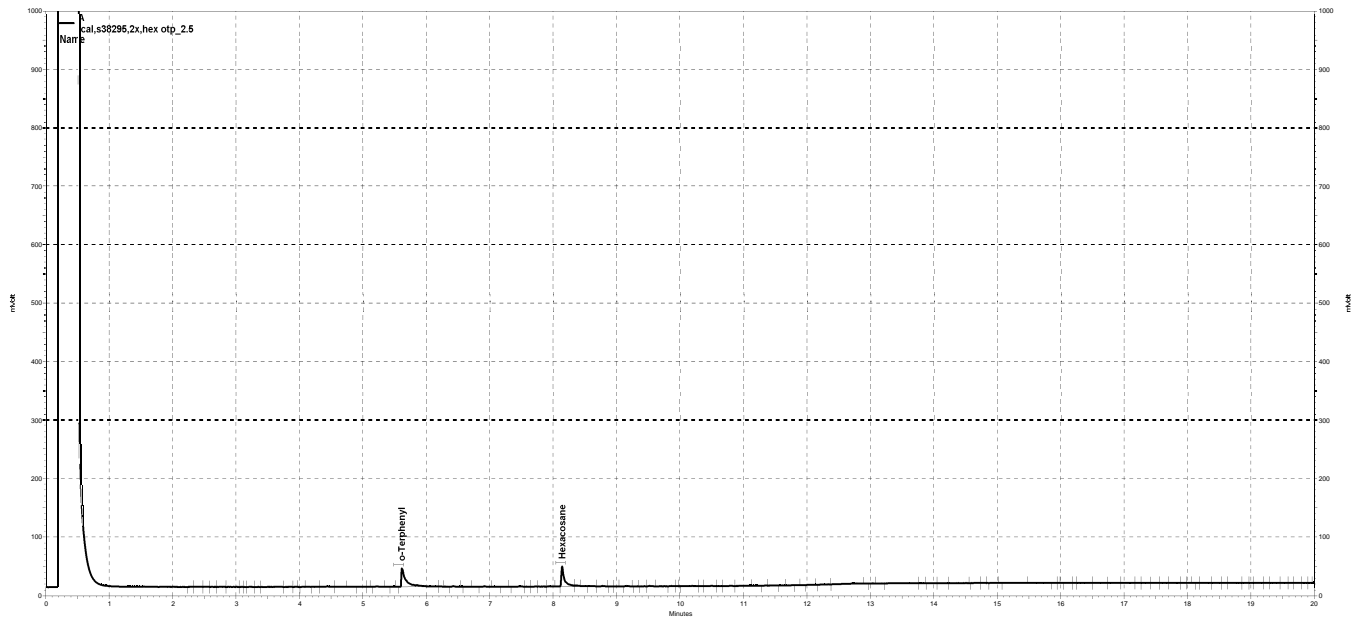
Analyst: WA1

Date: 10/03/18

Reviewer: TKM

Date: 10/03/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



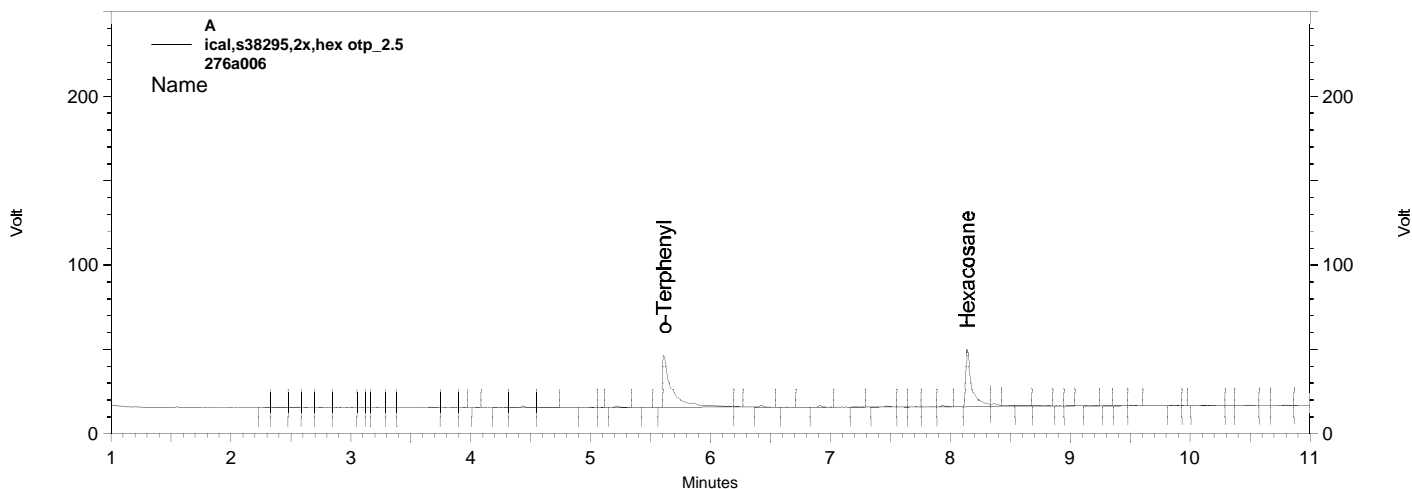
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a006, A

Sample Name: ical,s38295,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a006
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276a006
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothisurr276.met
 Run Date: 10/3/2018 8:28:25 AM
 Analysis Date: 10/3/2018 12:19:03 PM
 Instrument: GC26A Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.615	161151	2.500 CAL
Hexacosane	8.143	116036	2.500 CAL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothisurr276\2018\276a006\ical,s38295,2x,hex otp_2.5

 < General Method Parameters >-----

No items selected for this section

 < A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a006

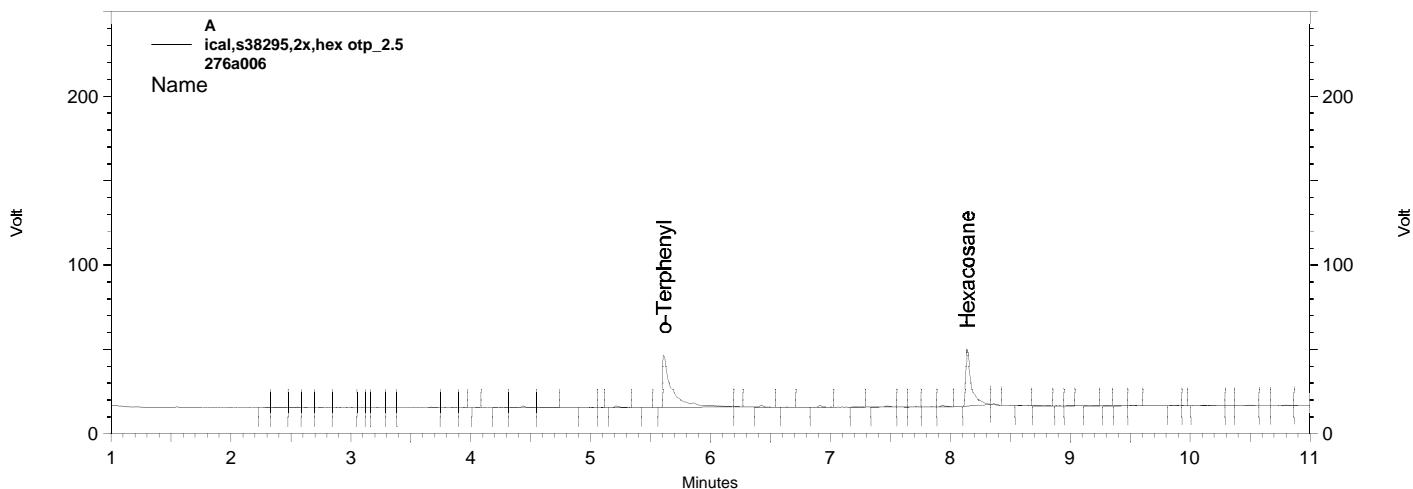
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	8.109	8.681	0

Sample Name: ical,s38295,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a006
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276a006.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothisurr276.met
 Run Date: 10/3/2018 8:28:25 AM
 Analysis Date: 10/3/2018 12:16:09 PM
 Instrument: GC26A Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.615	161151	2.500 CAL
Hexacosane	8.143	105659	2.500 CAL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothisurr276.met ical,s38295,2x,hex otp_2.5

 < General Method Parameters >-----

No items selected for this section

 < A >-----

No items selected for this section

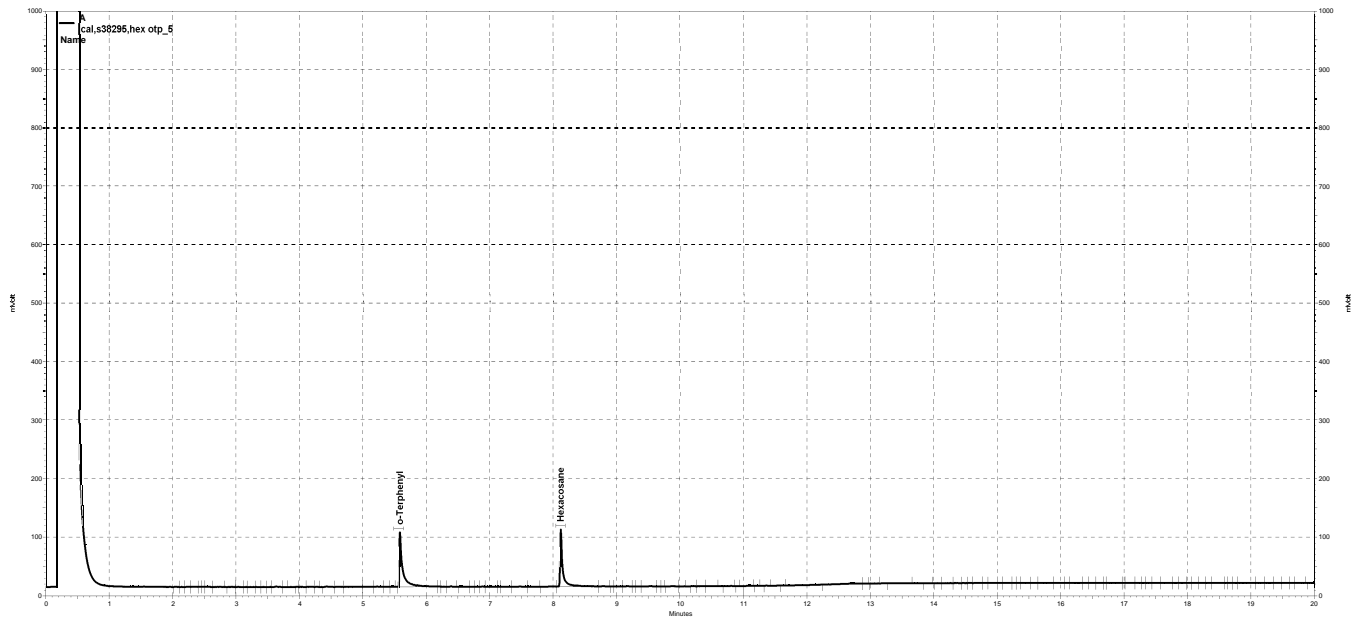
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



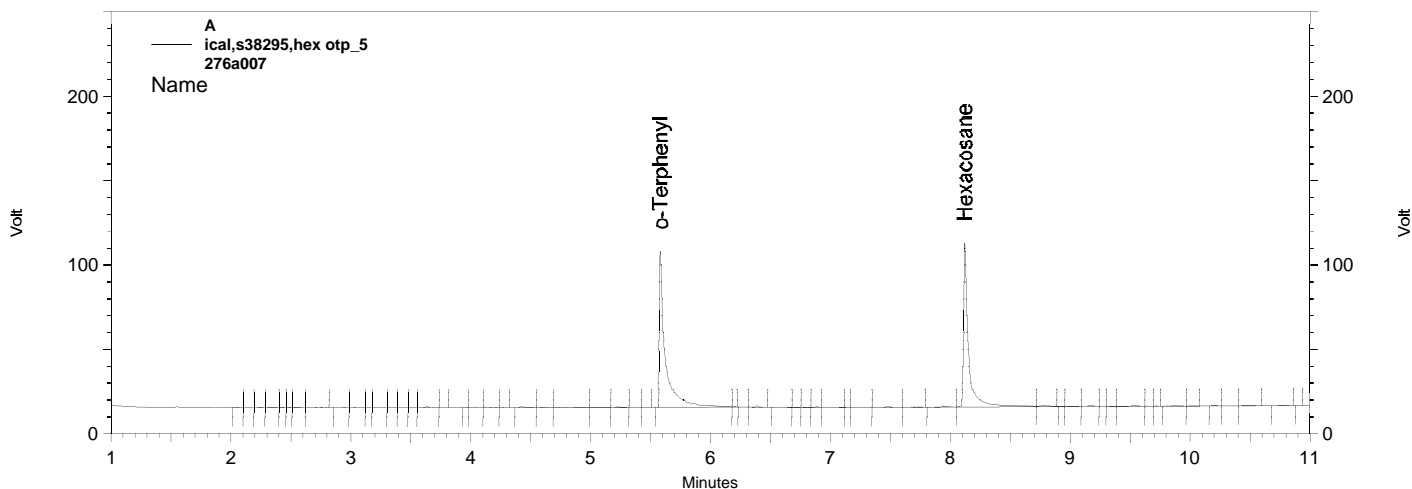
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a007, A

Sample Name: ical,s38295,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a007
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276.met
 Run Date: 10/3/2018 8:56:03 AM
 Analysis Date: 10/3/2018 12:19:06 PM
 Instrument: GC26A Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.585	329625	5.000 CAL
Hexacosane	8.122	272075	5.000 CAL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276\38295,hex otp_5

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

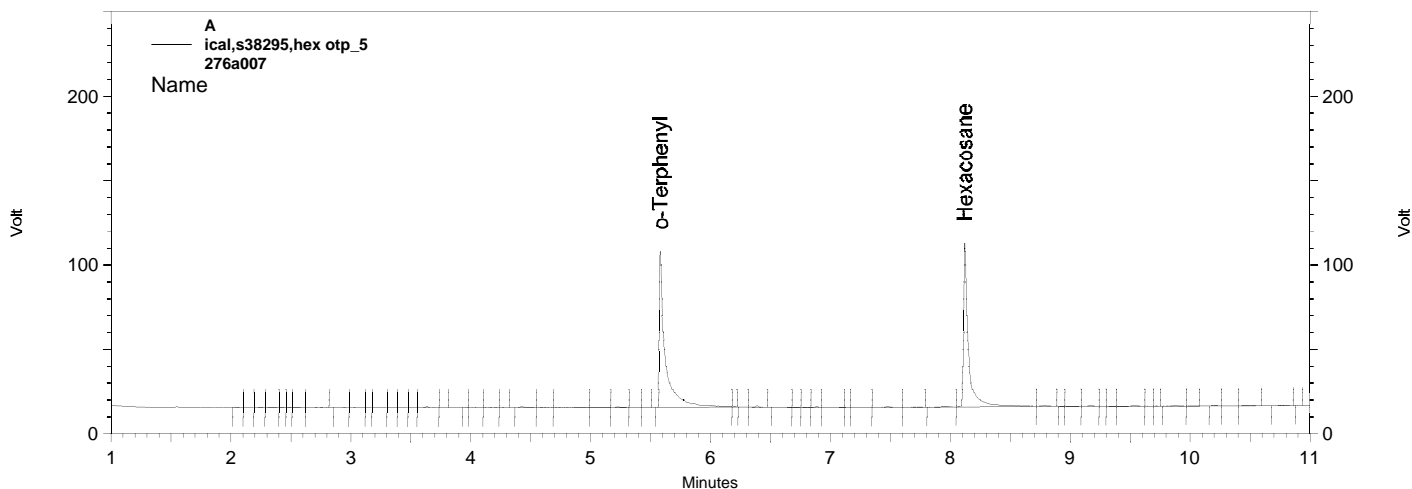
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	8.053	8.957	0

Sample Name: ical,s38295,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a007
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276.met
 Run Date: 10/3/2018 8:56:03 AM
 Analysis Date: 10/3/2018 12:16:34 PM
 Instrument: GC26A Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.585	329625	5.000 CAL
Hexacosane	8.122	267793	5.000 CAL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276\2018\276a007\ical,s38295,hex otp_5

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

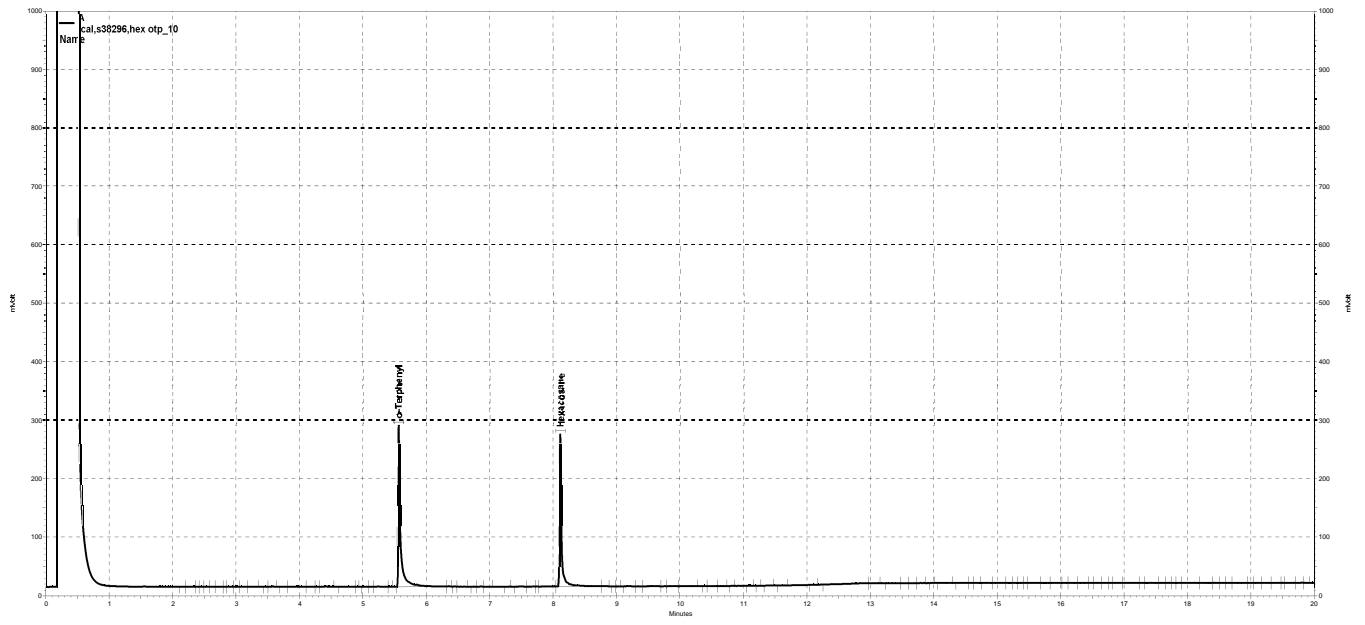
No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a007				
None				



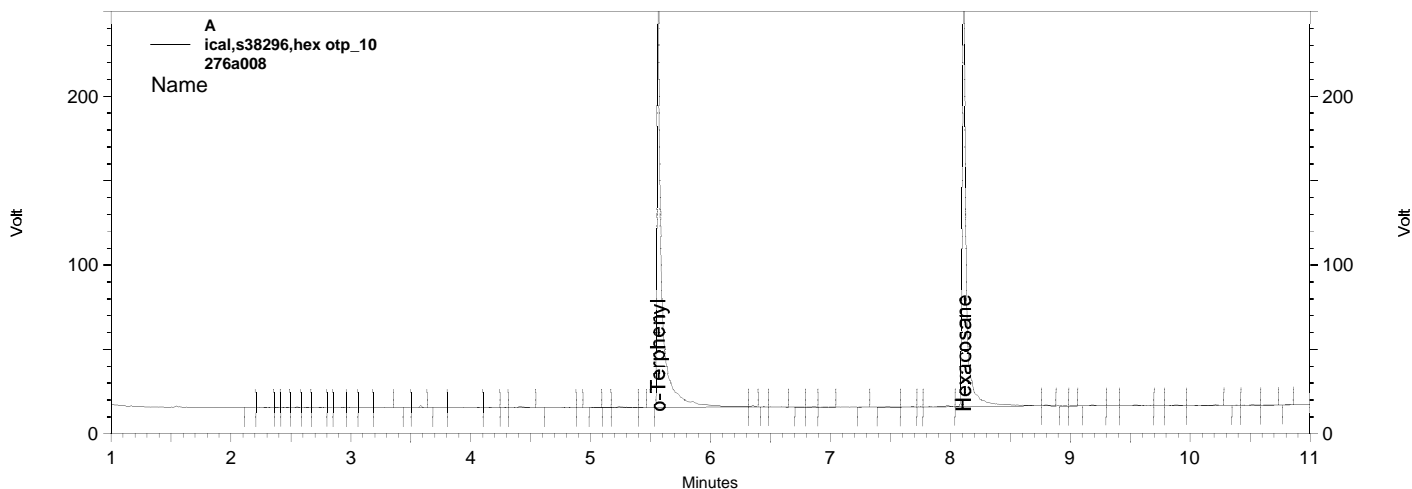
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a008, A

Sample Name: ical,s38296,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr275.met
 Run Date: 10/3/2018 9:23:44 AM
 Analysis Date: 10/3/2018 9:43:51 AM
 Instrument: GC26A Vial: 8 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.565	674976	11.311
Hexacosane	8.113	556897	13.306



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr275.met ical,s38296,hex otp_10

 << General Method Parameters >>-----

No items selected for this section

 << A >>-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\276a008_5272.tmp

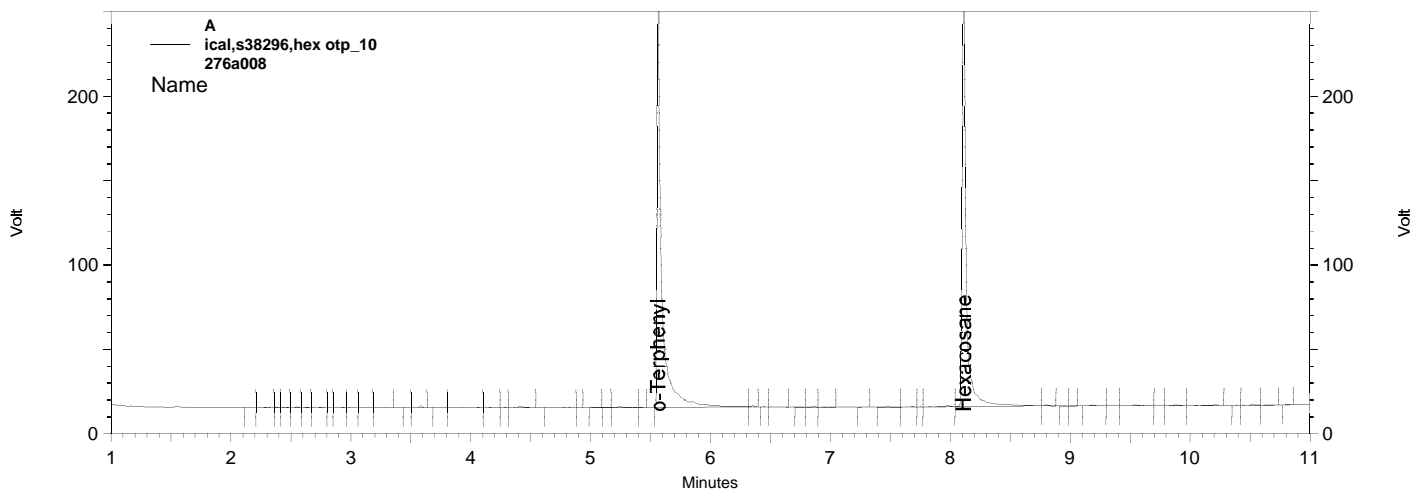
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s38296,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276a008.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276.met
 Run Date: 10/3/2018 9:23:44 AM
 Analysis Date: 10/3/2018 12:19:09 PM
 Instrument: GC26A Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.565	674976	10.000 CAL
Hexacosane	8.113	556897	10.000 CAL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276\2018\276a008,hex otp_10

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

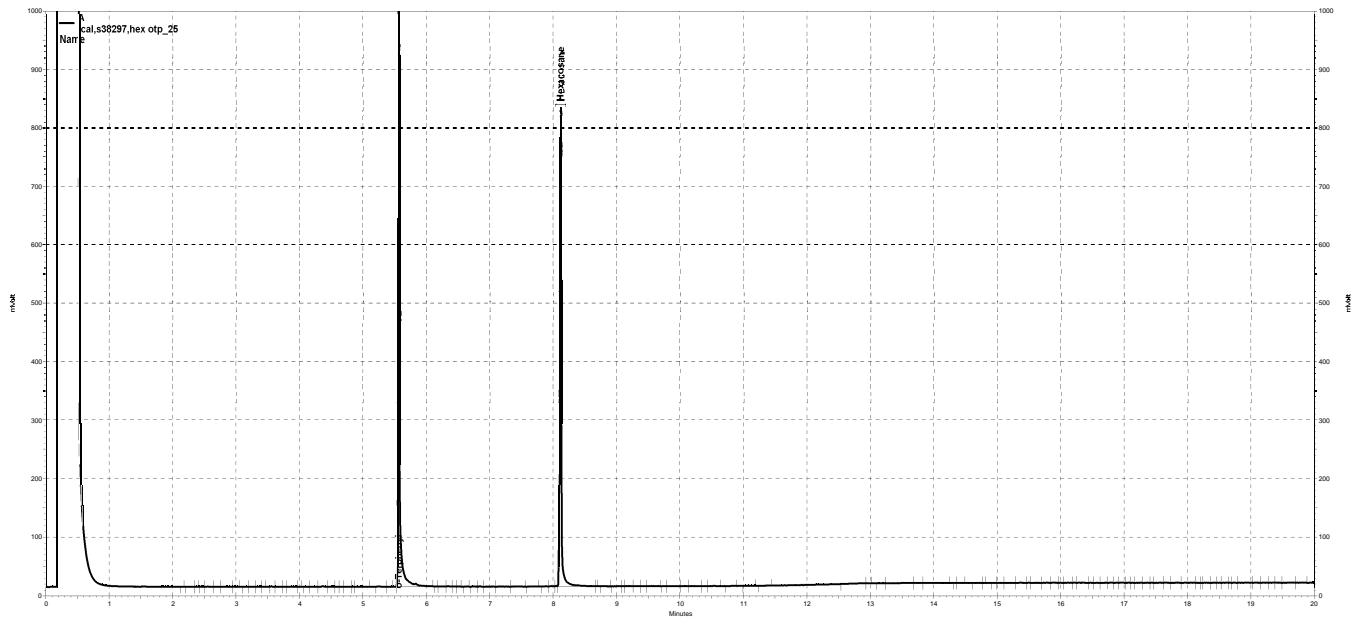
No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a008				
None				



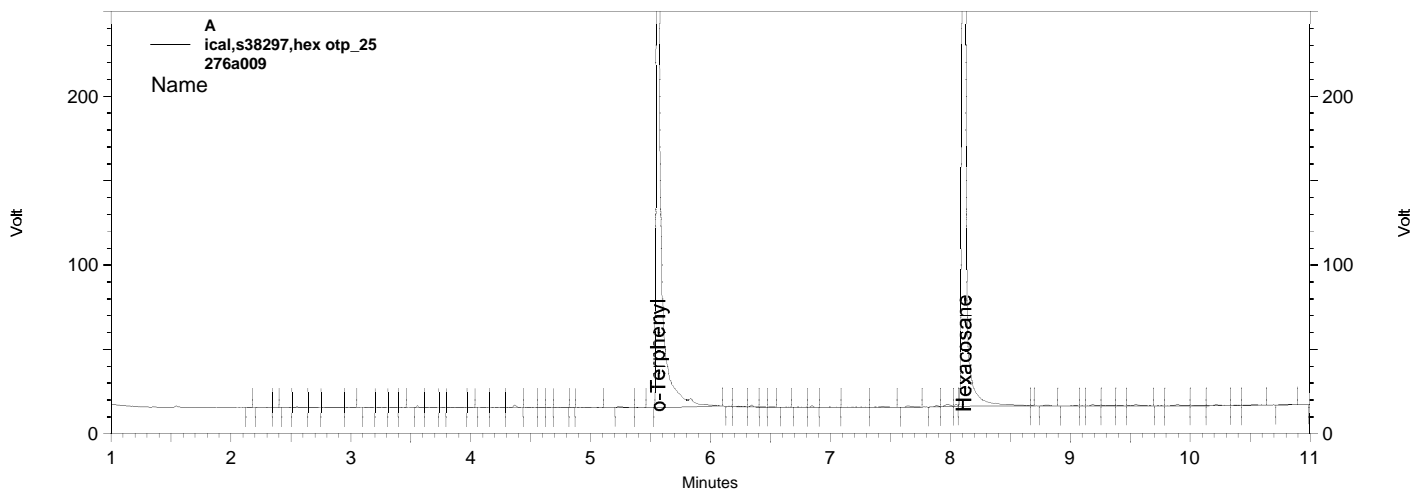
— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a009, A

Sample Name: ical,s38297,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276a009.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276.met
 Run Date: 10/3/2018 9:51:45 AM
 Analysis Date: 10/3/2018 12:19:13 PM
 Instrument: GC26A Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.565	1702057	25.000 CAL
Hexacosane	8.117	1434050	25.000 CAL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276\2018\276a009\20181003\20181003_095145\ical,s38297,hex otp_25

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

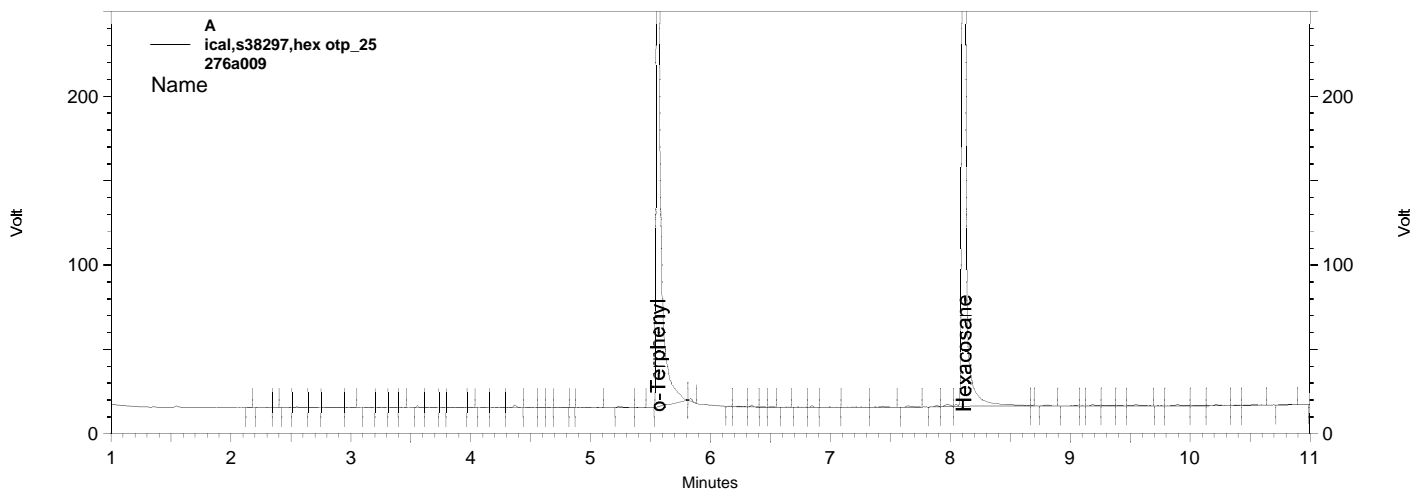
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a009				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	5.526	6.103	0
Yes	Split Peak	8.067	0	0

Sample Name: ical,s38297,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276a009.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276.met
 Run Date: 10/3/2018 9:51:45 AM
 Analysis Date: 10/3/2018 12:17:21 PM
 Instrument: GC26A Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.565	1645321	25.000 CAL
Hexacosane	8.117	1435180	25.000 CAL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276.met ical,s38297,hex otp_25

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

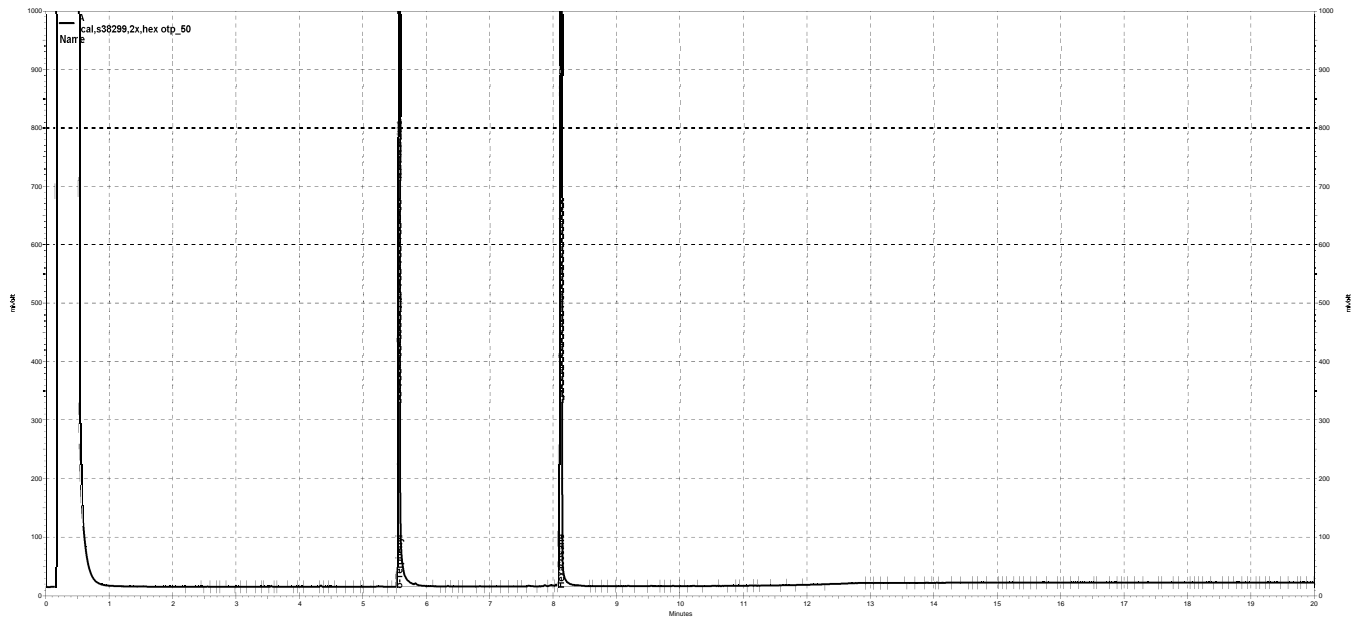
No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a009				
None				



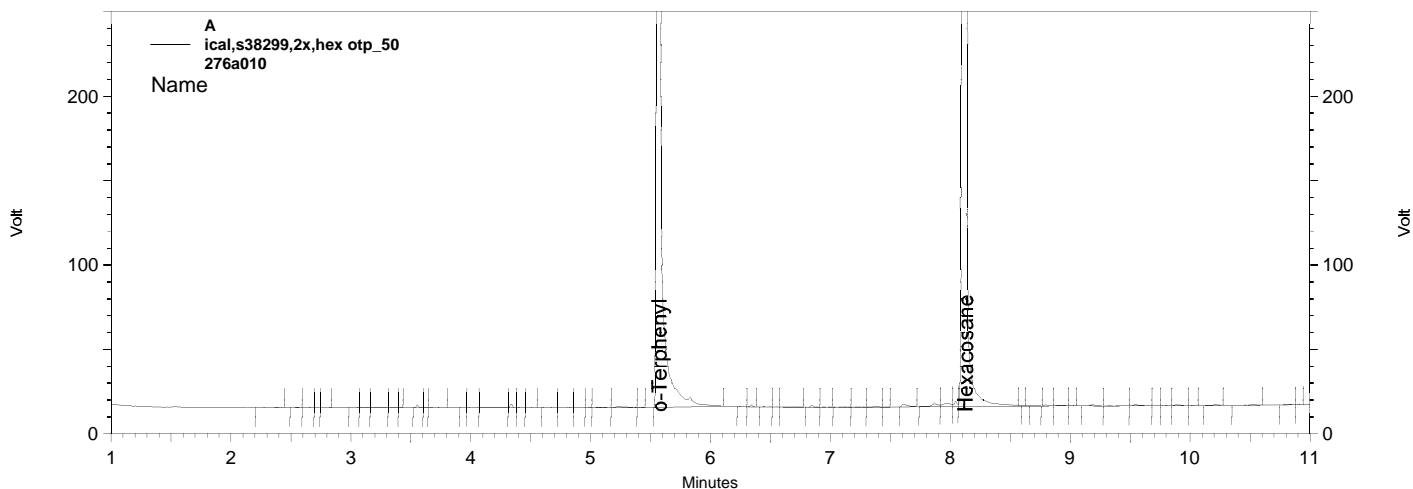
— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a010, A

Sample Name: ical,s38299,2x,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276.met
 Run Date: 10/3/2018 10:19:11 AM
 Analysis Date: 10/3/2018 12:19:16 PM
 Instrument: GC26A Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.577	3624139	50.000 CAL
Hexacosane	8.127	3031836	50.000 CAL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276\2018\276a010\ical,s38299,2x,hex otp_50

 << General Method Parameters >>-----

No items selected for this section

 << A >>-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

=====
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a010

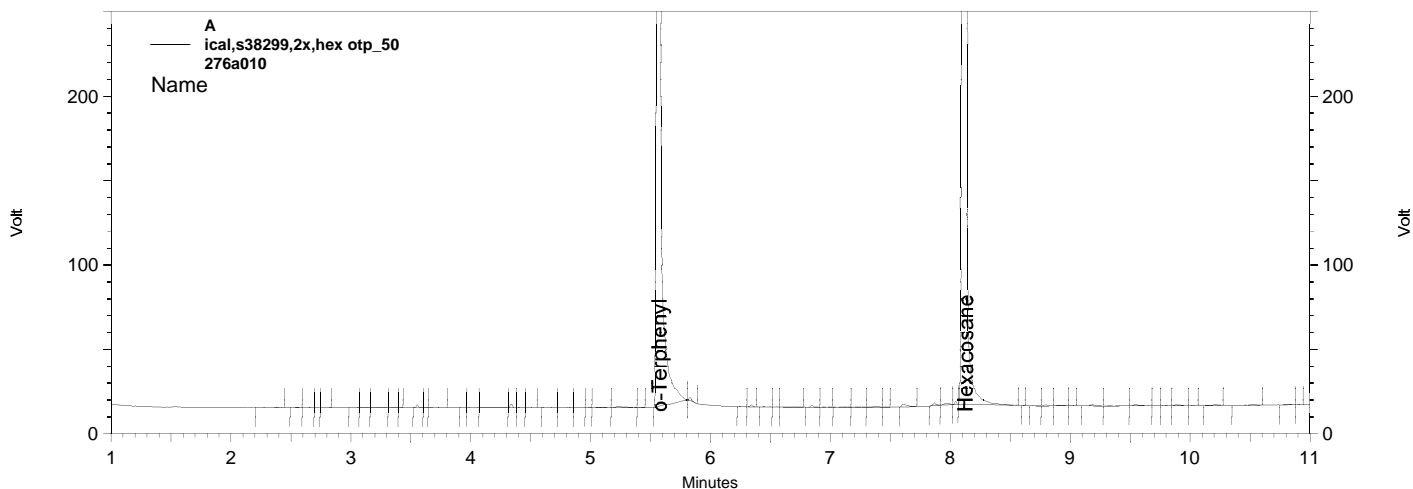
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	5.528	6.107	0
Yes	Manual Baseline	7.744	8.766	0

Sample Name: ical,s38299,2x,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276a010.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276.met
 Run Date: 10/3/2018 10:19:11 AM
 Analysis Date: 10/3/2018 12:17:54 PM
 Instrument: GC26A Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.577	3563502	50.000 CAL
Hexacosane	8.127	3007906	50.000 CAL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276\2018\276a010\ical,s38299,2x,hex otp_50

 < General Method Parameters >

No items selected for this section

 < A >

No items selected for this section

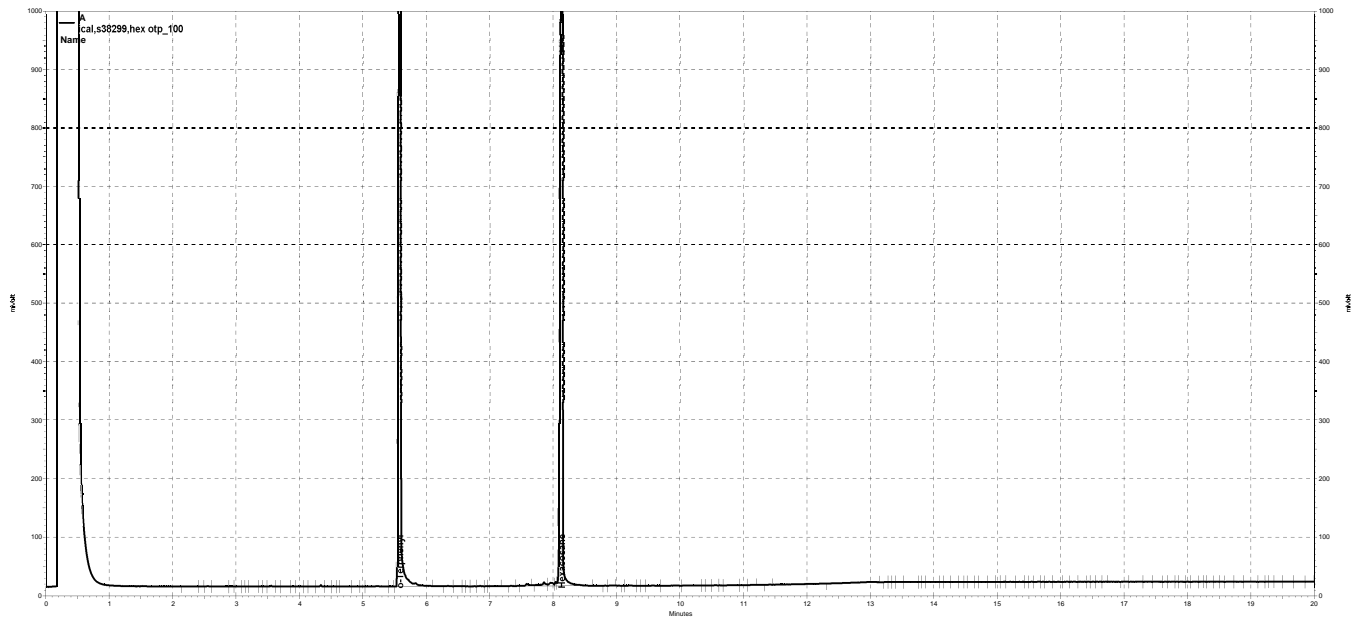
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



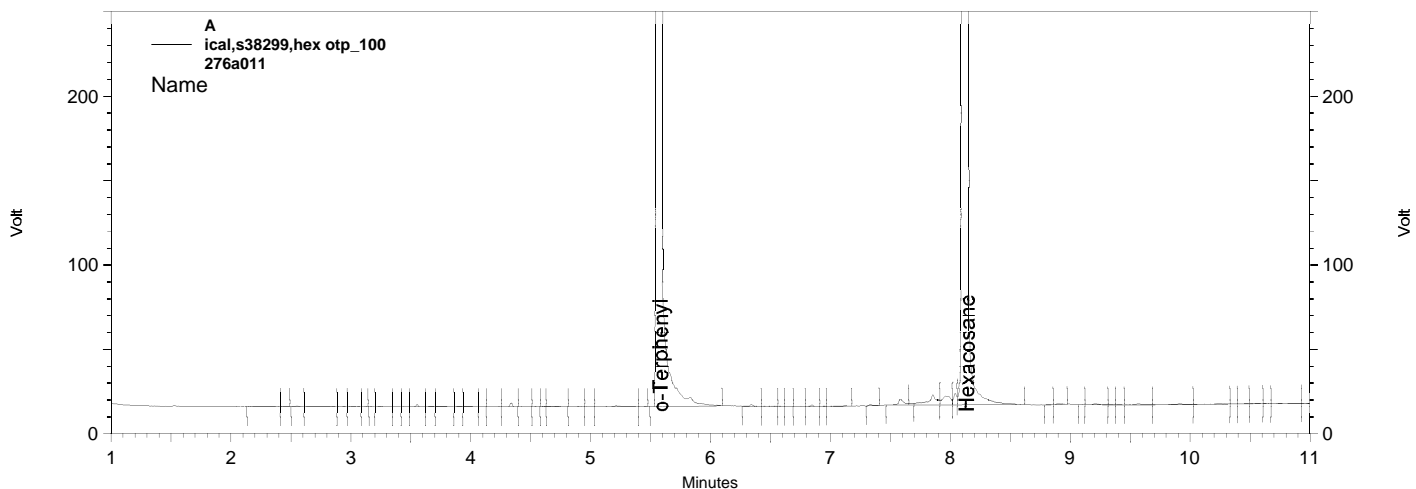
— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a011, A

Sample Name: ical,s38299,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276a011.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276.met
 Run Date: 10/3/2018 10:46:50 AM
 Analysis Date: 10/3/2018 12:19:20 PM
 Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.590	6798741	100.000 CAL
Hexacosane	8.140	5452889	100.000 CAL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276\2018\276a011,hex otp_100

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

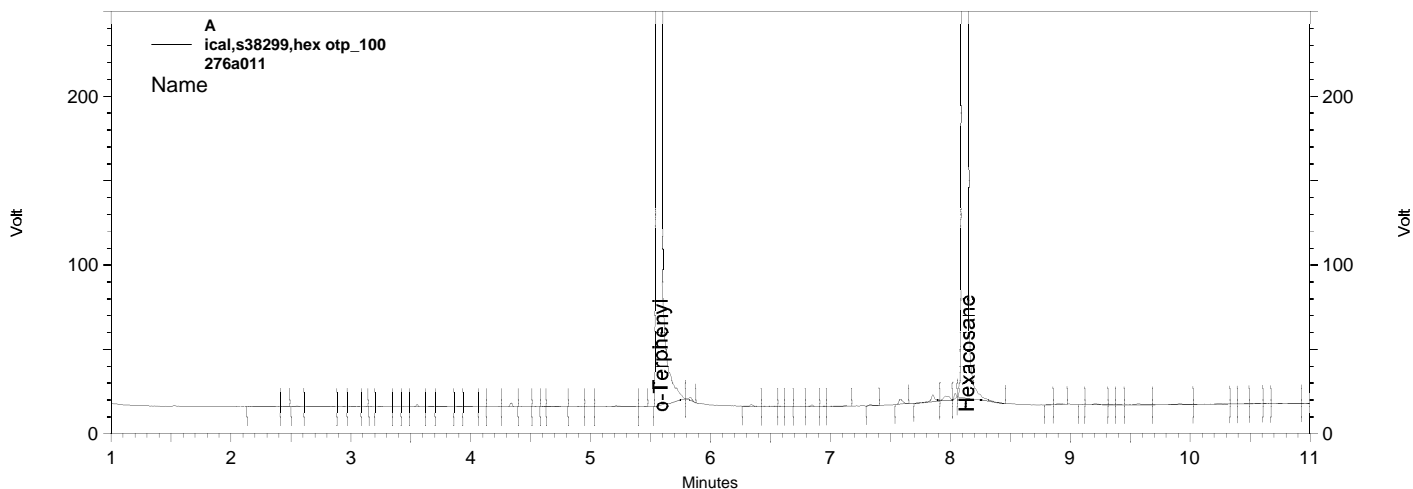
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a011				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	5.498	6.1	0
Yes	Manual Baseline	7.467	8.624	0

Sample Name: ical,s38299,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\276.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276.met
 Run Date: 10/3/2018 10:46:50 AM
 Analysis Date: 10/3/2018 12:18:22 PM
 Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.590	6731638	100.000 CAL
Hexacosane	8.140	5385019	100.000 CAL



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr276\2018\276a011\ical,s38299,hex otp_100

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\276a011				
None				

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC26A
 Calnum : 868409292001
 Units : mg/L

Name : MO_284
 Date : 11-OCT-2018 06:56
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	284a004	868409292004	MO_50	11-OCT-2018 06:56	S36946
L2	284a005	868409292005	MO_250	11-OCT-2018 07:24	S36948
L3	284a006	868409292006	MO_500	11-OCT-2018 07:52	S36949
L4	284a007	868409292007	MO_1000	11-OCT-2018 08:20	S36951
L5	284a008	868409292008	MO_2500	11-OCT-2018 08:49	S36926 (2X)
L6	284a009	868409292009	MO_5000	11-OCT-2018 09:17	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	37418	41939	44375	45287	44635	47347	AVRG		2.30E-5		43500	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-14	250.00	-4	500.00	2	1000.0	4	2500.0	3	5000.0	9

CB1 10/12/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 10/12/18

Reviewer: EAH

Date: 10/12/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCSV Water
EPA 8015B

Inst : GC26A
Calnum : 868409292001

Name : MO_284
Cal Date : 11-OCT-2018

ICV 868409292011 (284a011 11-OCT-2018) stds: S38108

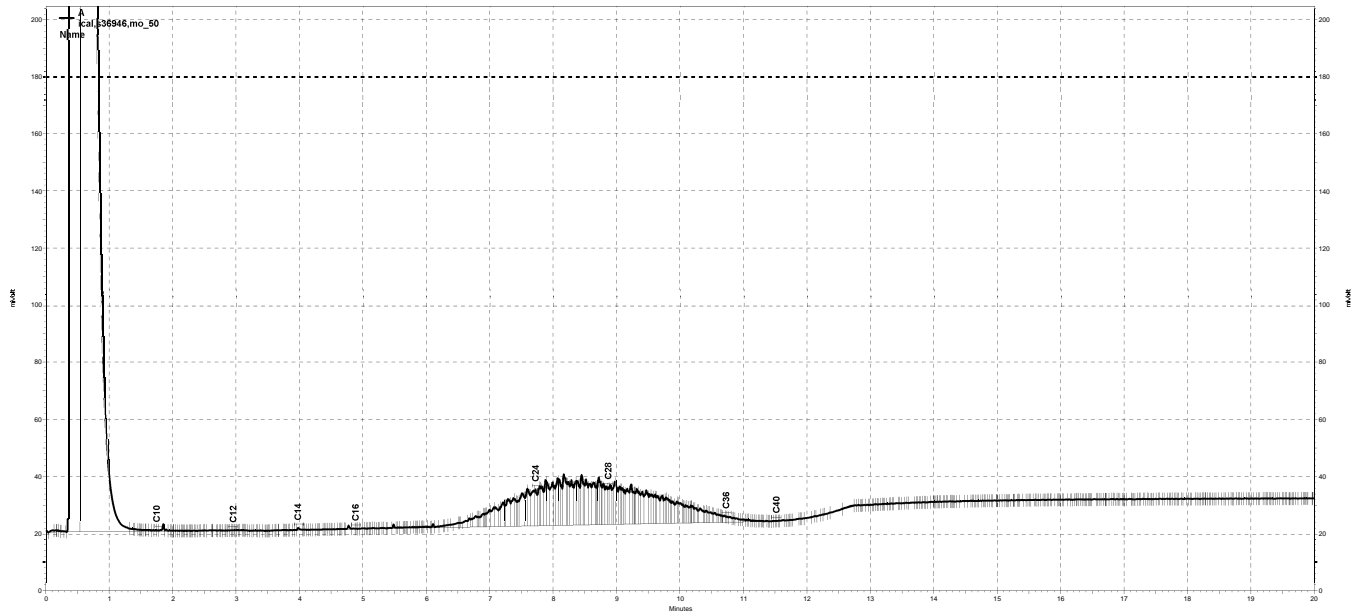
Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	510.1	mg/L	2	15	

Analyst: CB1

Date: 10/12/18

Reviewer: EAH

Date: 10/12/18



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a004, A

Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 6:56:30 AM
 Analysis Date: 10/12/2018 6:12:22 AM
 Instrument: GC26A Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	43401	0.000 CAL
DSL:10-14	33460	0.000 CAL
DSL:10-22	234884	0.000 CAL
DSL:10-24	620141	0.000 CAL
DSL:10-28	1565190	0.000 CAL
DSL:12-24	599633	0.000 CAL
DSL:12-28	1544682	0.000 CAL
DSL:14-24	589221	0.000 CAL
DSL:16-24	578067	0.000 CAL
MO:22-32	1964324	50.000 CAL
MO:24-36	1870881	50.000 CAL
MO:28-40	944651	50.000 CAL
BUNKC:10-40	2392063	0.000 CAL
BUNKC:12-40	2371555	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

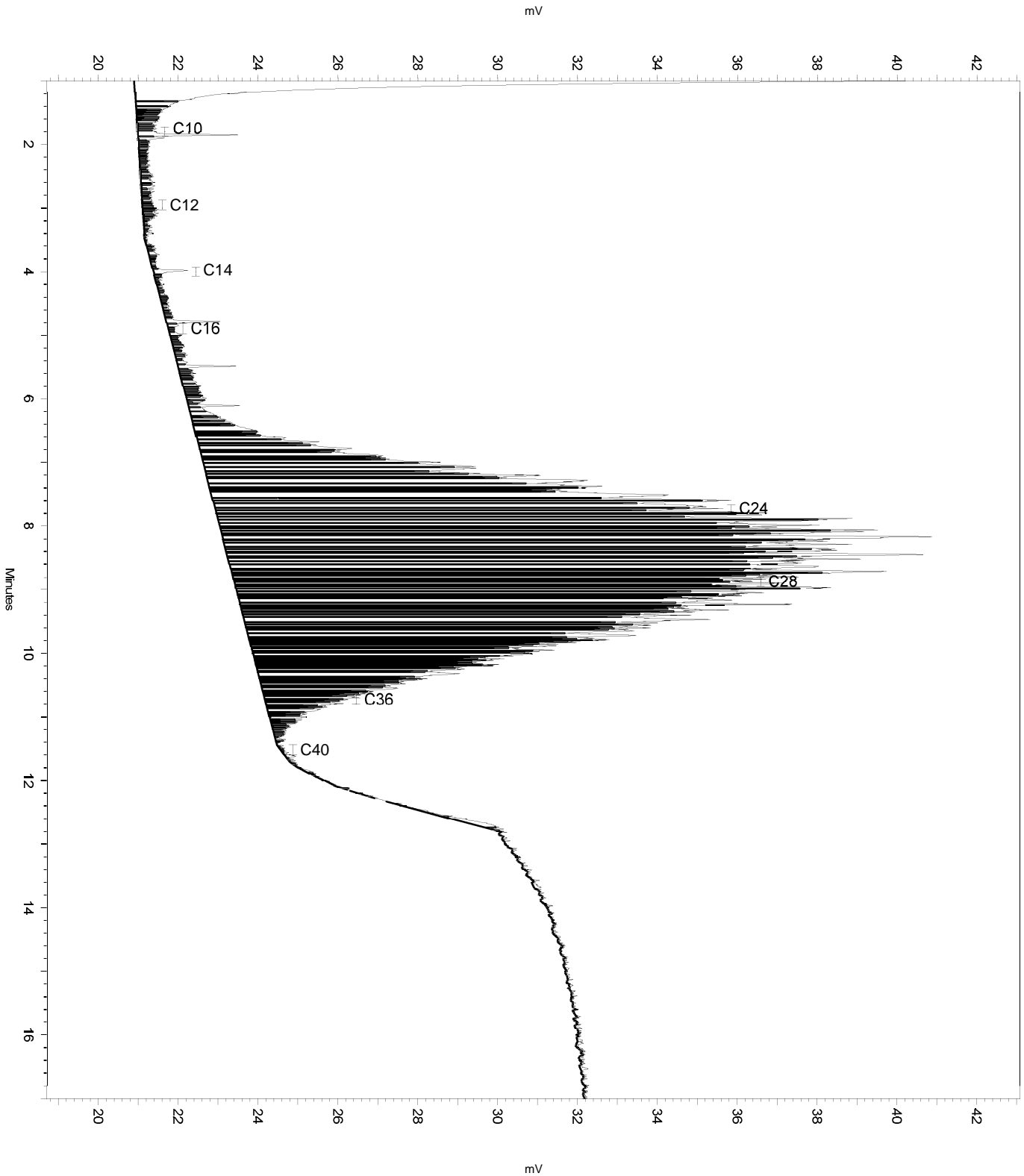
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	6.063	11.445	0

Sample Name: ical,s36946,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 6:56:30 AM
Analysis Date: 10/12/2018 6:12:22 AM
Instrument: GC26A Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 6:56:30 AM
 Analysis Date: 10/12/2018 6:08:38 AM
 Instrument: GC26A Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	40566	0.000 CAL
DSL:10-14	33014	0.000 CAL
DSL:10-22	103081	0.000 CAL
DSL:10-24	274108	0.000 CAL
DSL:10-28	584676	0.000 CAL
DSL:12-24	253600	0.000 CAL
DSL:12-28	564168	0.000 CAL
DSL:14-24	243449	0.000 CAL
DSL:16-24	234418	0.000 CAL
MO:22-32	578946	50.000 CAL
MO:24-36	467094	50.000 CAL
MO:28-40	120108	50.000 CAL
BUNKC:10-40	692468	0.000 CAL
BUNKC:12-40	671960	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

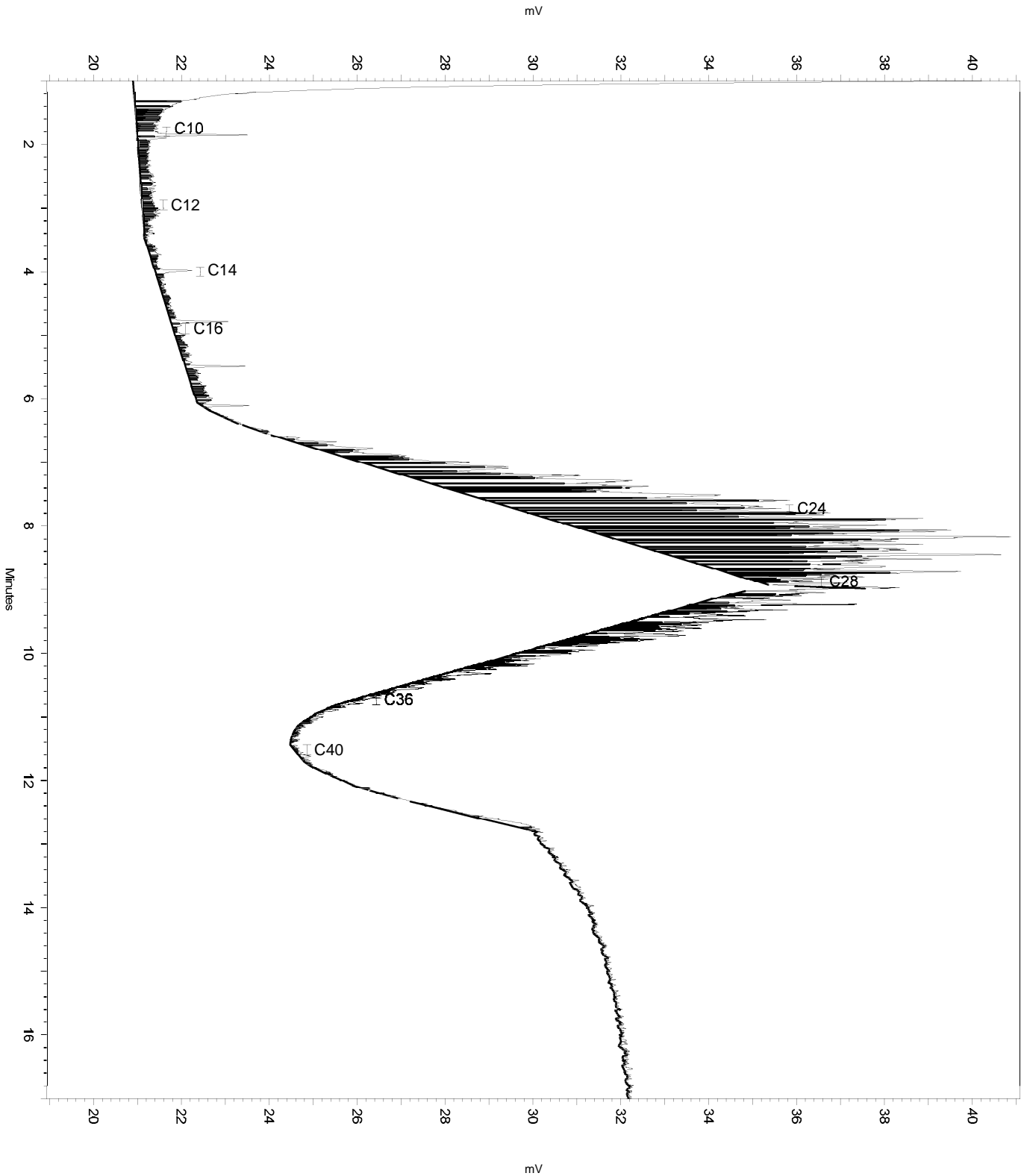
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36946,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 6:56:30 AM
Analysis Date: 10/12/2018 6:08:38 AM
Instrument: GC26A Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

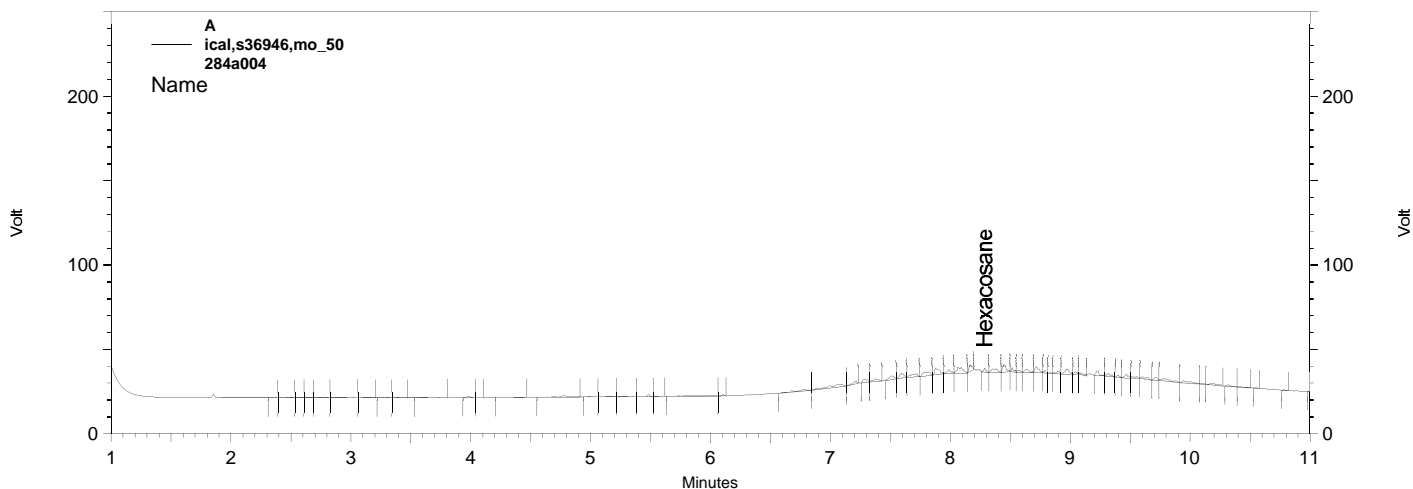


Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a004
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/11/2018 6:56:30 AM
 Analysis Date: 10/11/2018 7:16:41 AM
 Instrument: GC26A Vial: 4 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	8.288	3223	0.059



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met ical,s36946,mo_50

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

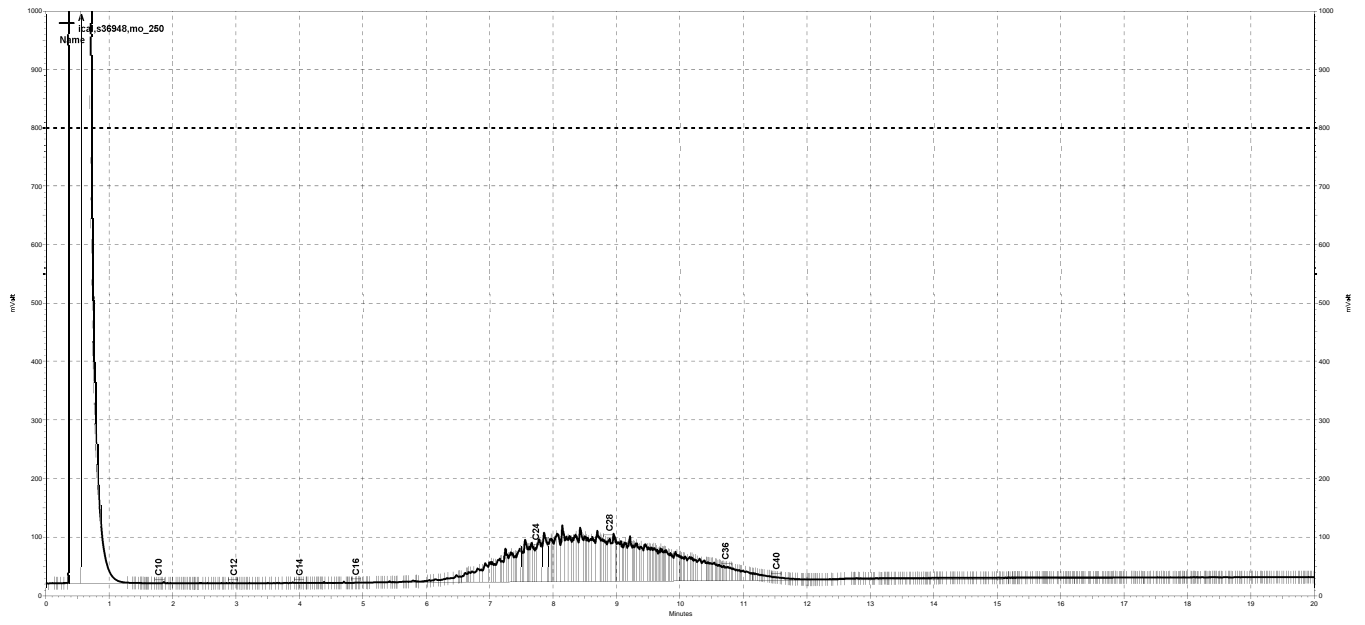
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\284a004_1BDF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a005, A

Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 7:24:37 AM
 Analysis Date: 10/12/2018 6:12:28 AM
 Instrument: GC26A Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	40693	0.000 CAL
DSL:10-14	30510	0.000 CAL
DSL:10-22	1212351	0.000 CAL
DSL:10-24	3217309	0.000 CAL
DSL:10-28	7985178	0.000 CAL
DSL:12-24	3201460	0.000 CAL
DSL:12-28	7969329	0.000 CAL
DSL:14-24	3188312	0.000 CAL
DSL:16-24	3178112	0.000 CAL
MO:22-32	10434322	250.000 CAL
MO:24-36	10484792	250.000 CAL
MO:28-40	6197755	250.000 CAL
BUNKC:10-40	13715166	0.000 CAL
BUNKC:12-40	13699317	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```
=====
```

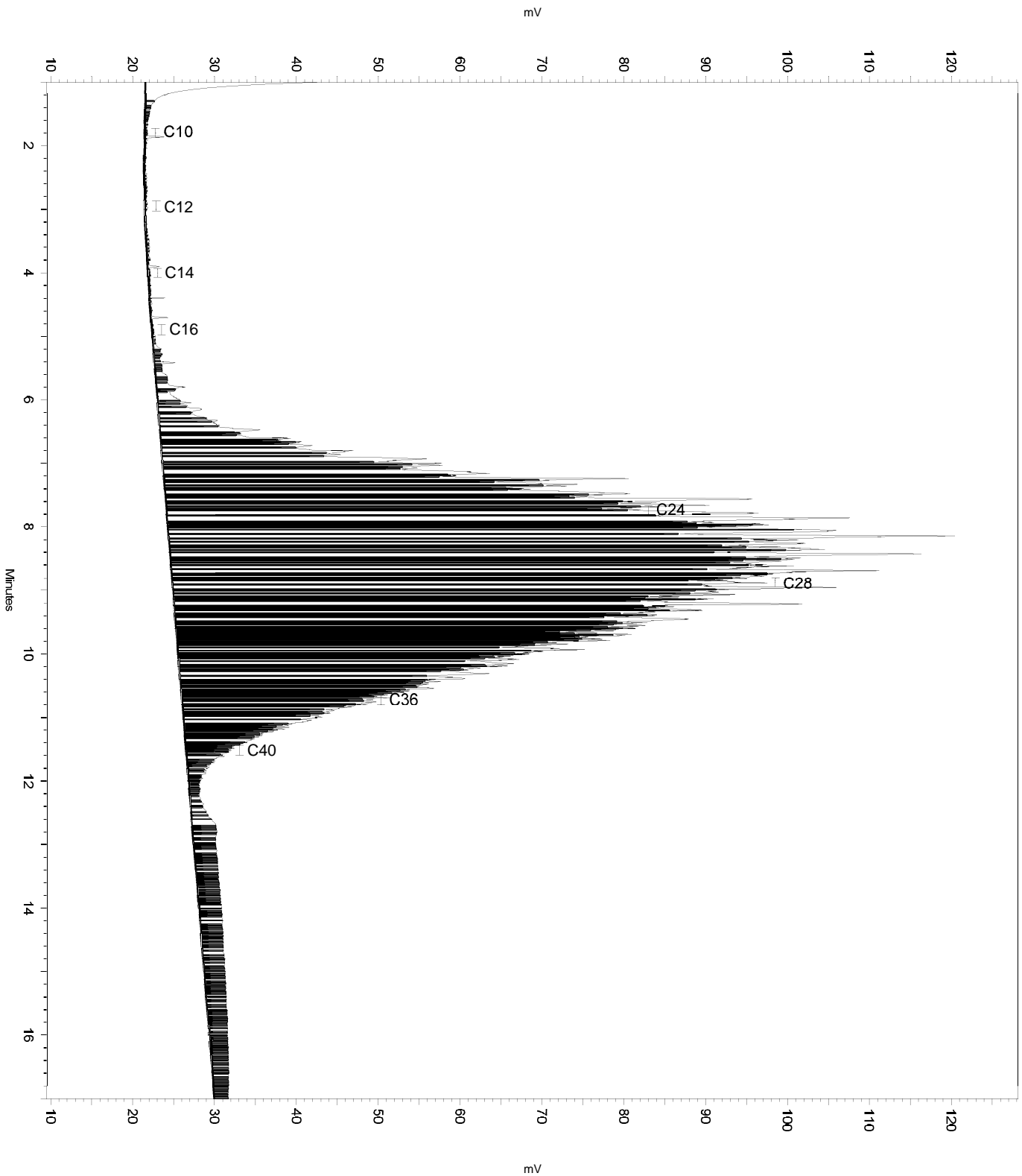
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a005				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	4.793	19.956	0

Sample Name: ical,s36948,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 7:24:37 AM
Analysis Date: 10/12/2018 6:12:28 AM
Instrument: GC26A Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 7:24:37 AM
 Analysis Date: 10/12/2018 6:09:25 AM
 Instrument: GC26A Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	39384	0.000 CAL
DSL:10-14	30510	0.000 CAL
DSL:10-22	360660	0.000 CAL
DSL:10-24	1175949	0.000 CAL
DSL:10-28	2564076	0.000 CAL
DSL:12-24	1160100	0.000 CAL
DSL:12-28	2548227	0.000 CAL
DSL:14-24	1146952	0.000 CAL
DSL:16-24	1137268	0.000 CAL
MO:22-32	2672780	250.000 CAL
MO:24-36	2187133	250.000 CAL
MO:28-40	669586	250.000 CAL
BUNKC:10-40	3200775	0.000 CAL
BUNKC:12-40	3184926	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

```

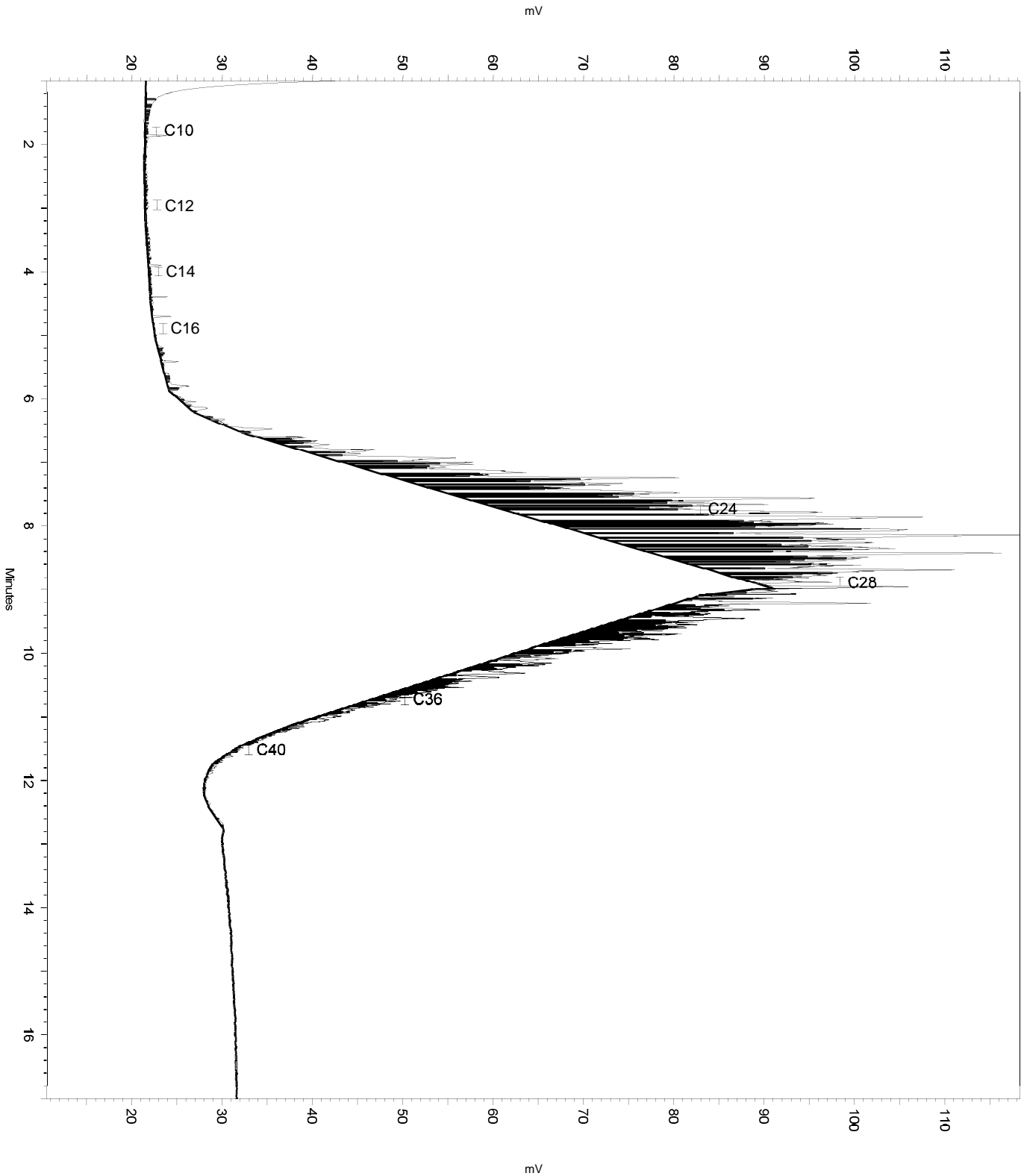
=====
Enabled Event Type      Start   Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0       0     0
Yes Threshold            0       0    10
Yes Reset Baseline      0.25    0     0
Yes Force Peak Stop     1.616   0     0
Yes Reset Baseline      8.989   0     0
Yes Valley to Valley    12.81   17.367 0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a005
Enabled Event Type      Start   Stop
                          (Minutes) (Minutes) Value
-----
None
  
```

Sample Name: ical,s36948,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 7:24:37 AM
Analysis Date: 10/12/2018 6:09:25 AM
Instrument: GC26A Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

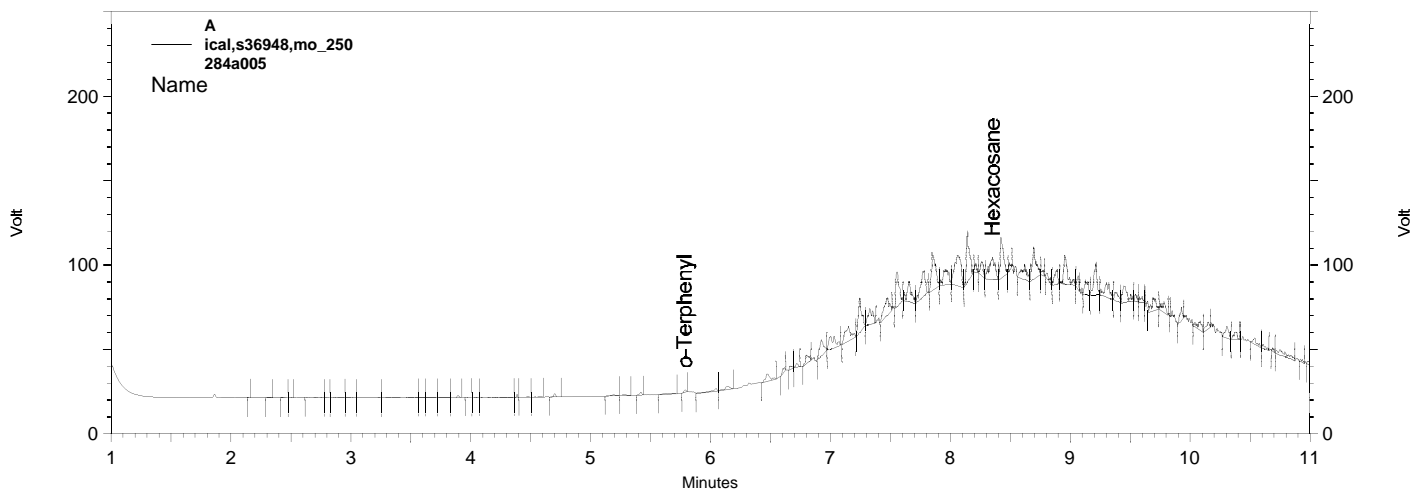


Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a005
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\284a005.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/11/2018 7:24:37 AM
 Analysis Date: 10/11/2018 7:44:46 AM
 Instrument: GC26A Vial: 5 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.790	1668	0.025
Hexacosane	8.355	43987	0.802



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met ical,s36948,mo_250

 << General Method Parameters >-----

No items selected for this section

 << A >-----

No items selected for this section

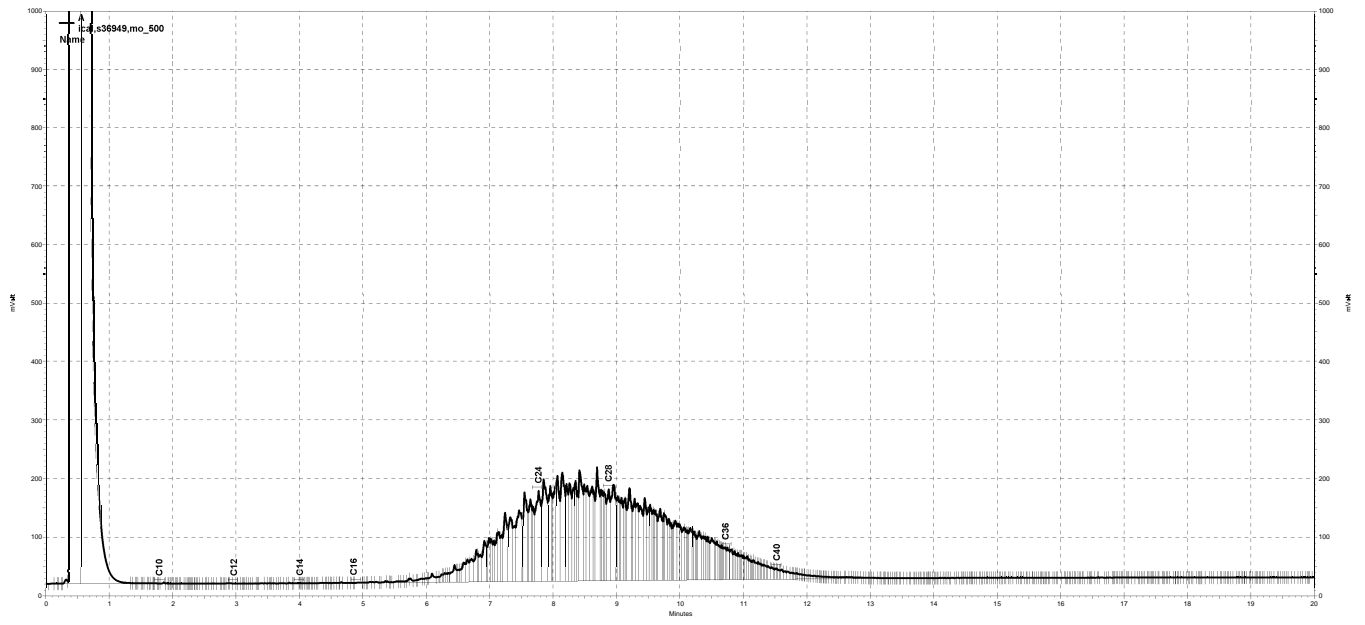
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\284a005_1BE0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a006, A

Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a006
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 7:52:39 AM
 Analysis Date: 10/12/2018 6:12:35 AM
 Instrument: GC26A Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	38200	0.000 CAL
DSL:10-14	27540	0.000 CAL
DSL:10-22	2520599	0.000 CAL
DSL:10-24	6917916	0.000 CAL
DSL:10-28	16992756	0.000 CAL
DSL:12-24	6900714	0.000 CAL
DSL:12-28	16975556	0.000 CAL
DSL:14-24	6891463	0.000 CAL
DSL:16-24	6883385	0.000 CAL
MO:22-32	22456026	500.000 CAL
MO:24-36	22187644	500.000 CAL
MO:28-40	13435741	500.000 CAL
BUNKC:10-40	29482858	0.000 CAL
BUNKC:12-40	29465658	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

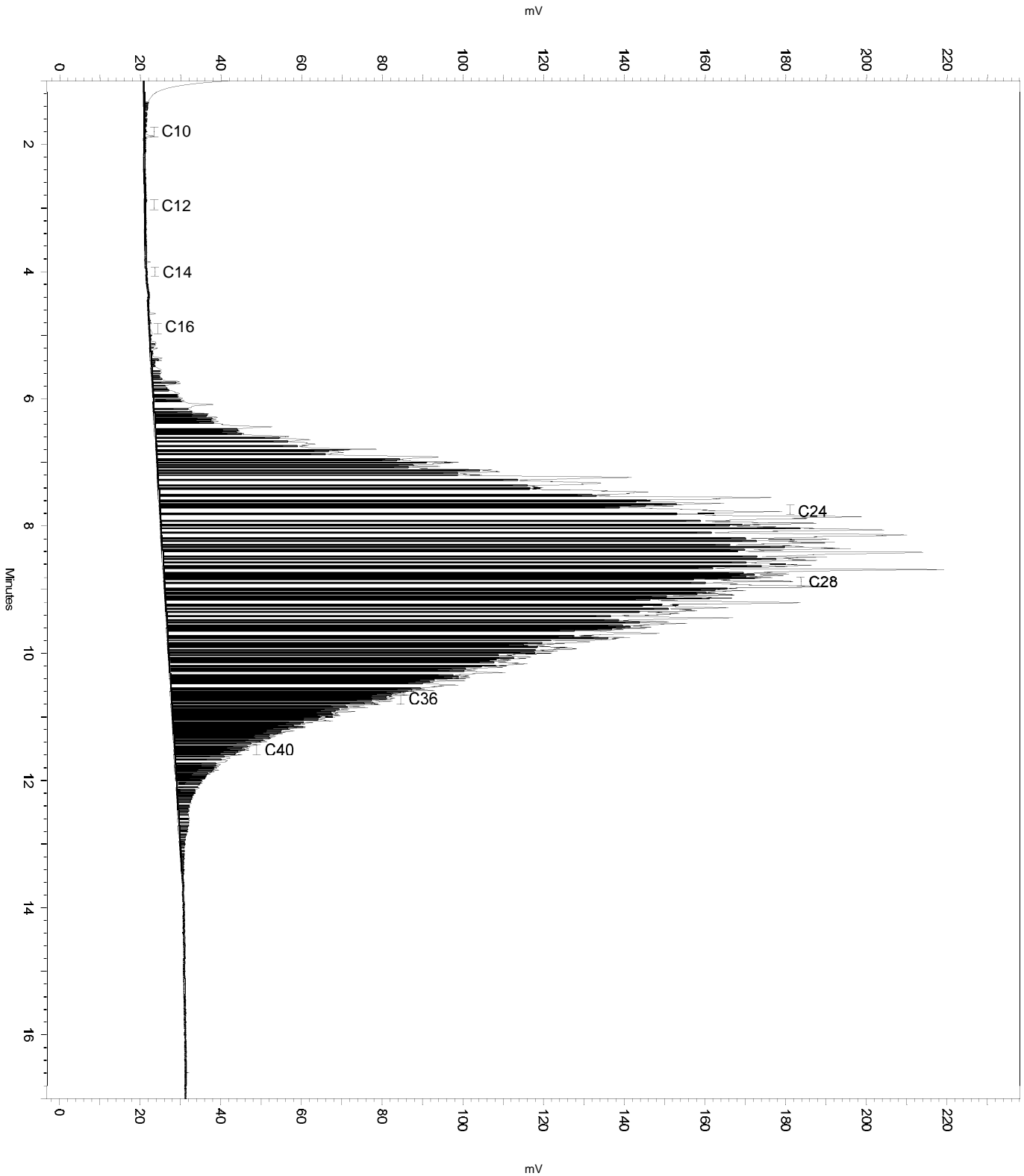
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	5.073	13.521	0

Sample Name: ical,s36949,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a006
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 7:52:39 AM
Analysis Date: 10/12/2018 6:12:35 AM
Instrument: GC26A Vial: 6 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a006
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 7:52:39 AM
 Analysis Date: 10/12/2018 6:09:58 AM
 Instrument: GC26A Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	37889	0.000 CAL
DSL:10-14	27540	0.000 CAL
DSL:10-22	726891	0.000 CAL
DSL:10-24	2552056	0.000 CAL
DSL:10-28	5587577	0.000 CAL
DSL:12-24	2534854	0.000 CAL
DSL:12-28	5570375	0.000 CAL
DSL:14-24	2525603	0.000 CAL
DSL:16-24	2517525	0.000 CAL
MO:22-32	5825128	500.000 CAL
MO:24-36	4607721	500.000 CAL
MO:28-40	1329584	500.000 CAL
BUNKC:10-40	6837963	0.000 CAL
BUNKC:12-40	6820761	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

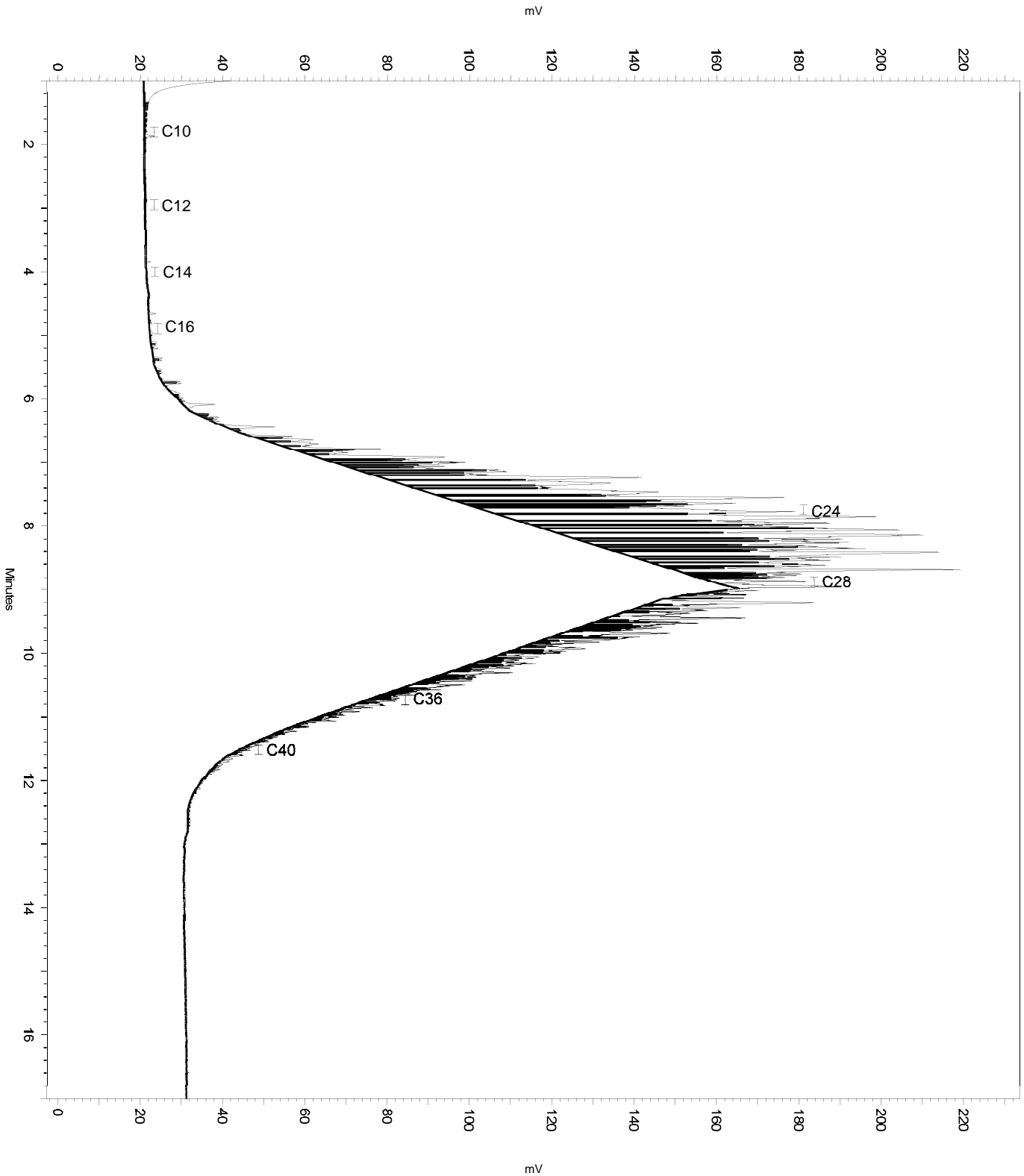
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36949,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a006
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 7:52:39 AM
Analysis Date: 10/12/2018 6:09:58 AM
Instrument: GC26A Vial: 6 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

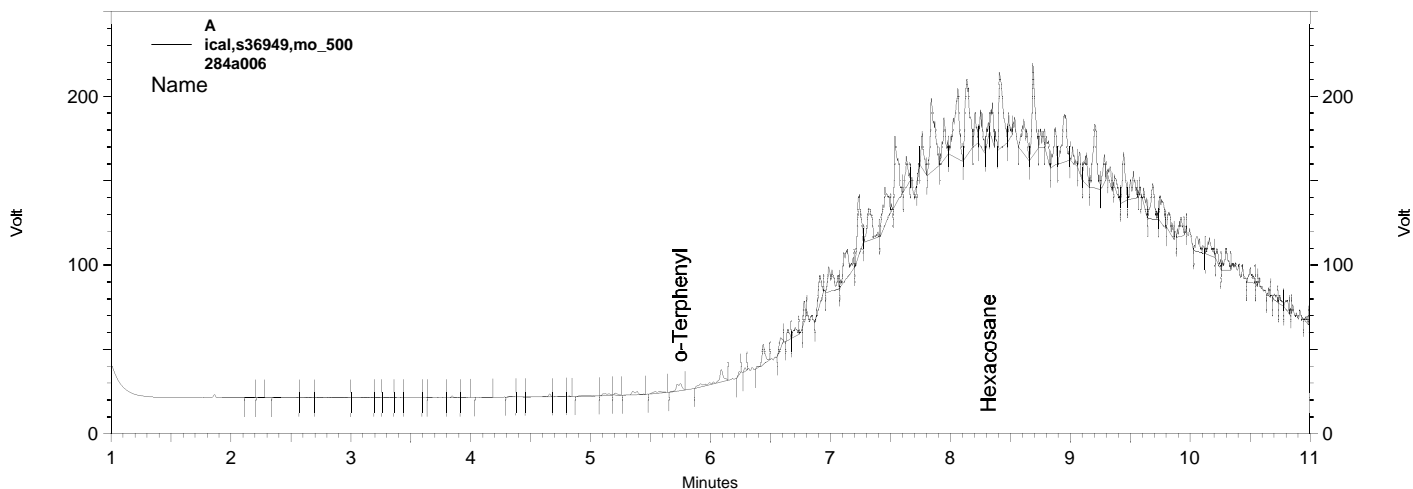


Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a006
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\284a006.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/11/2018 7:52:39 AM
 Analysis Date: 10/11/2018 8:12:48 AM
 Instrument: GC26A Vial: 6 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.750	13648	0.201
Hexacosane	8.322	13224	0.241



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met ical,s36949,mo_500

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

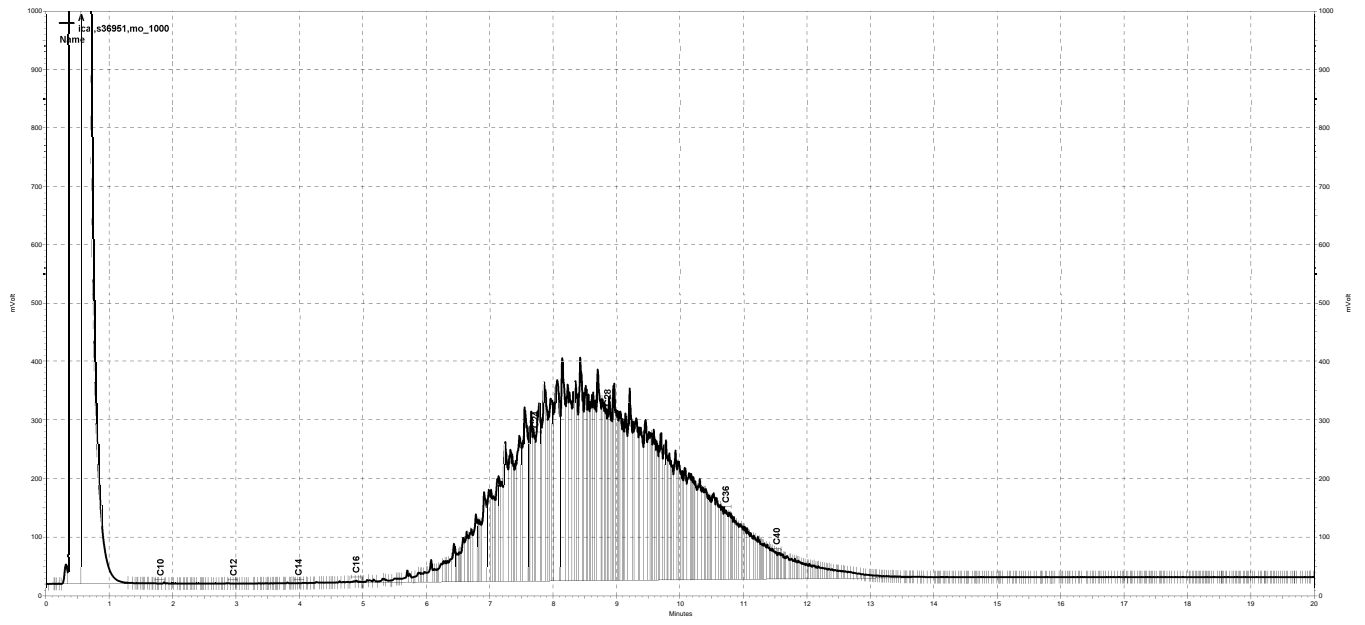
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\284a006_1BE1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a007, A

Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 8:20:56 AM
 Analysis Date: 10/12/2018 6:12:41 AM
 Instrument: GC26A Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	78375	0.000 CAL
DSL:10-14	25875	0.000 CAL
DSL:10-22	6195565	0.000 CAL
DSL:10-24	14893698	0.000 CAL
DSL:10-28	35467240	0.000 CAL
DSL:12-24	14878295	0.000 CAL
DSL:12-28	35451836	0.000 CAL
DSL:14-24	14869064	0.000 CAL
DSL:16-24	14836769	0.000 CAL
MO:22-32	44934888	1000.000 CAL
MO:24-36	45287316	1000.000 CAL
MO:28-40	27700728	1000.000 CAL
BUNKC:10-40	61125024	0.000 CAL
BUNKC:12-40	61109616	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

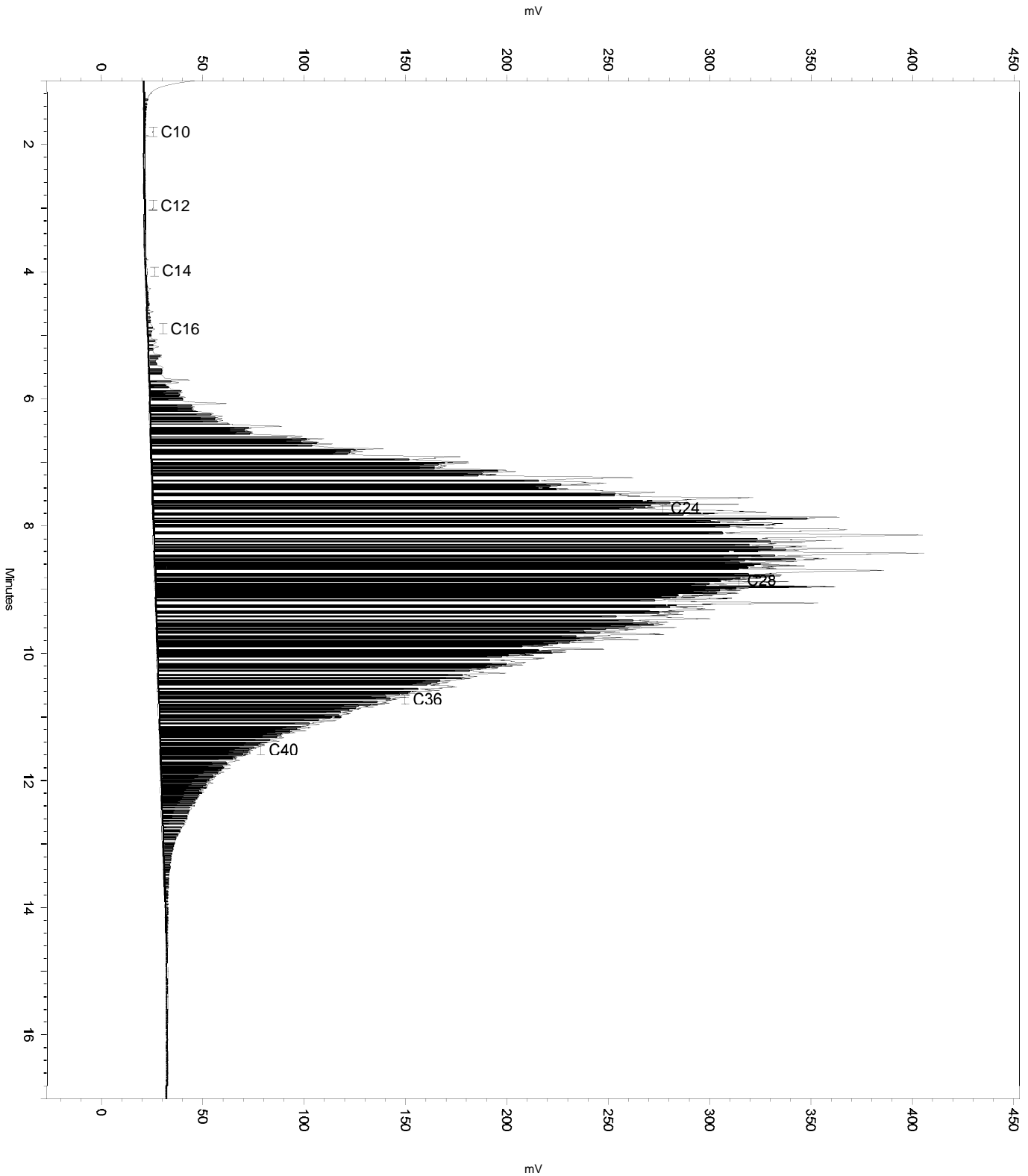
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	4.13	14.614	0

Sample Name: ical,s36951,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a007
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 8:20:56 AM
Analysis Date: 10/12/2018 6:12:41 AM
Instrument: GC26A Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 8:20:56 AM
 Analysis Date: 10/12/2018 6:10:22 AM
 Instrument: GC26A Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	50245	0.000 CAL
DSL:10-14	25405	0.000 CAL
DSL:10-22	1773680	0.000 CAL
DSL:10-24	5383211	0.000 CAL
DSL:10-28	11345972	0.000 CAL
DSL:12-24	5367808	0.000 CAL
DSL:12-28	11330569	0.000 CAL
DSL:14-24	5358742	0.000 CAL
DSL:16-24	5343248	0.000 CAL
MO:22-32	11589002	1000.000 CAL
MO:24-36	9082482	1000.000 CAL
MO:28-40	2514012	1000.000 CAL
BUNKC:10-40	13703551	0.000 CAL
BUNKC:12-40	13688148	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

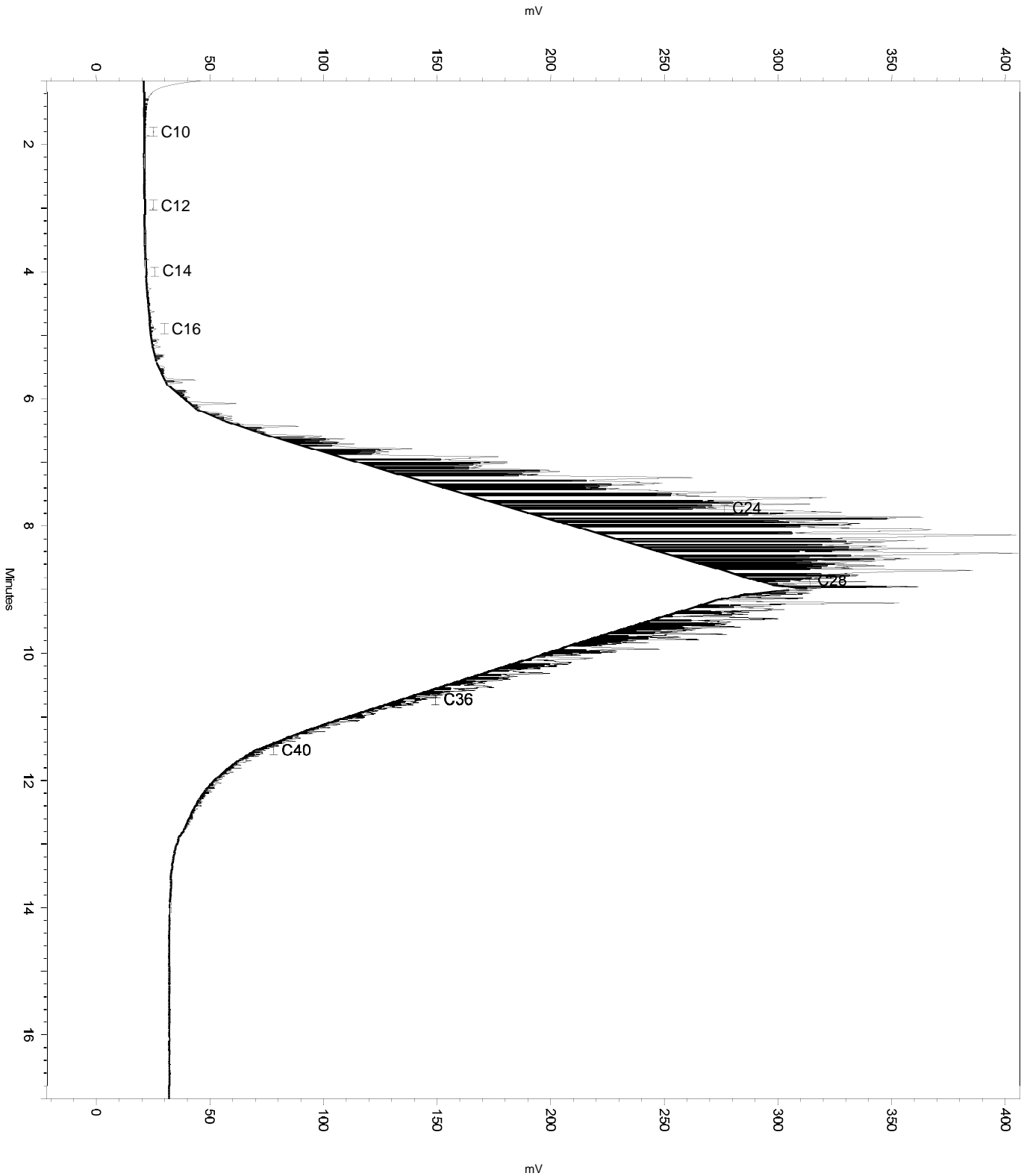
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36951,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a007
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 8:20:56 AM
Analysis Date: 10/12/2018 6:10:22 AM
Instrument: GC26A Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

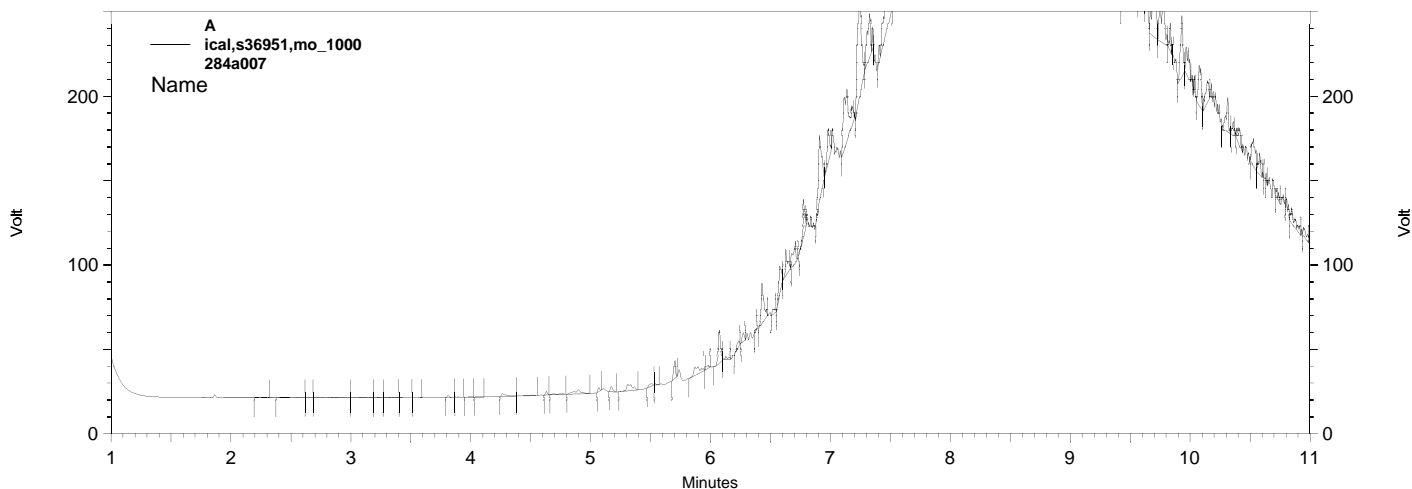


Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a007
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/11/2018 8:20:56 AM
 Analysis Date: 10/11/2018 8:41:03 AM
 Instrument: GC26A Vial: 7 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	8.317	7584	0.138



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met ical,s36951,mo_1000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

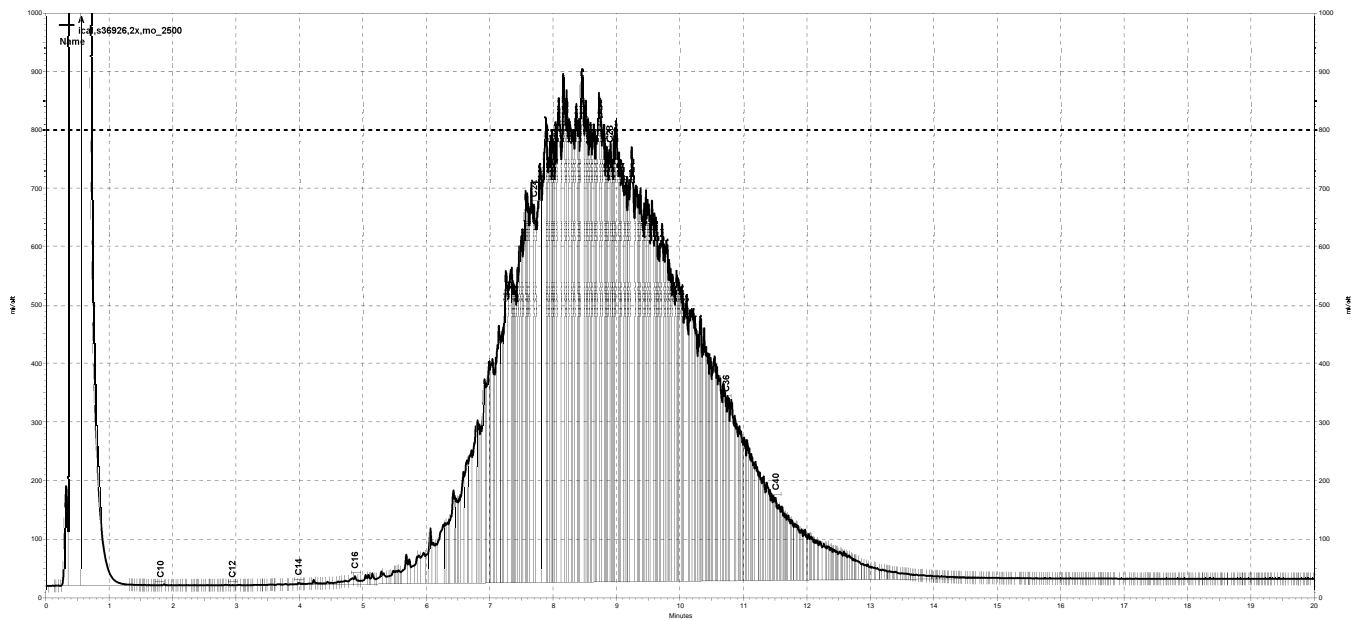
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\284a007_1BE2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a008, A

Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a008
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 8:49:05 AM
 Analysis Date: 10/12/2018 6:12:47 AM
 Instrument: GC26A Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	259978	0.000 CAL
DSL:10-14	49447	0.000 CAL
DSL:10-22	15553000	0.000 CAL
DSL:10-24	37422596	0.000 CAL
DSL:10-28	88533192	0.000 CAL
DSL:12-24	37404544	0.000 CAL
DSL:12-28	88515128	0.000 CAL
DSL:14-24	37387468	0.000 CAL
DSL:16-24	37252144	0.000 CAL
MO:22-32	111404464	2500.000 CAL
MO:24-36	111586960	2500.000 CAL
MO:28-40	72436112	2500.000 CAL
BUNKC:10-40	153800000	0.000 CAL
BUNKC:12-40	153781952	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

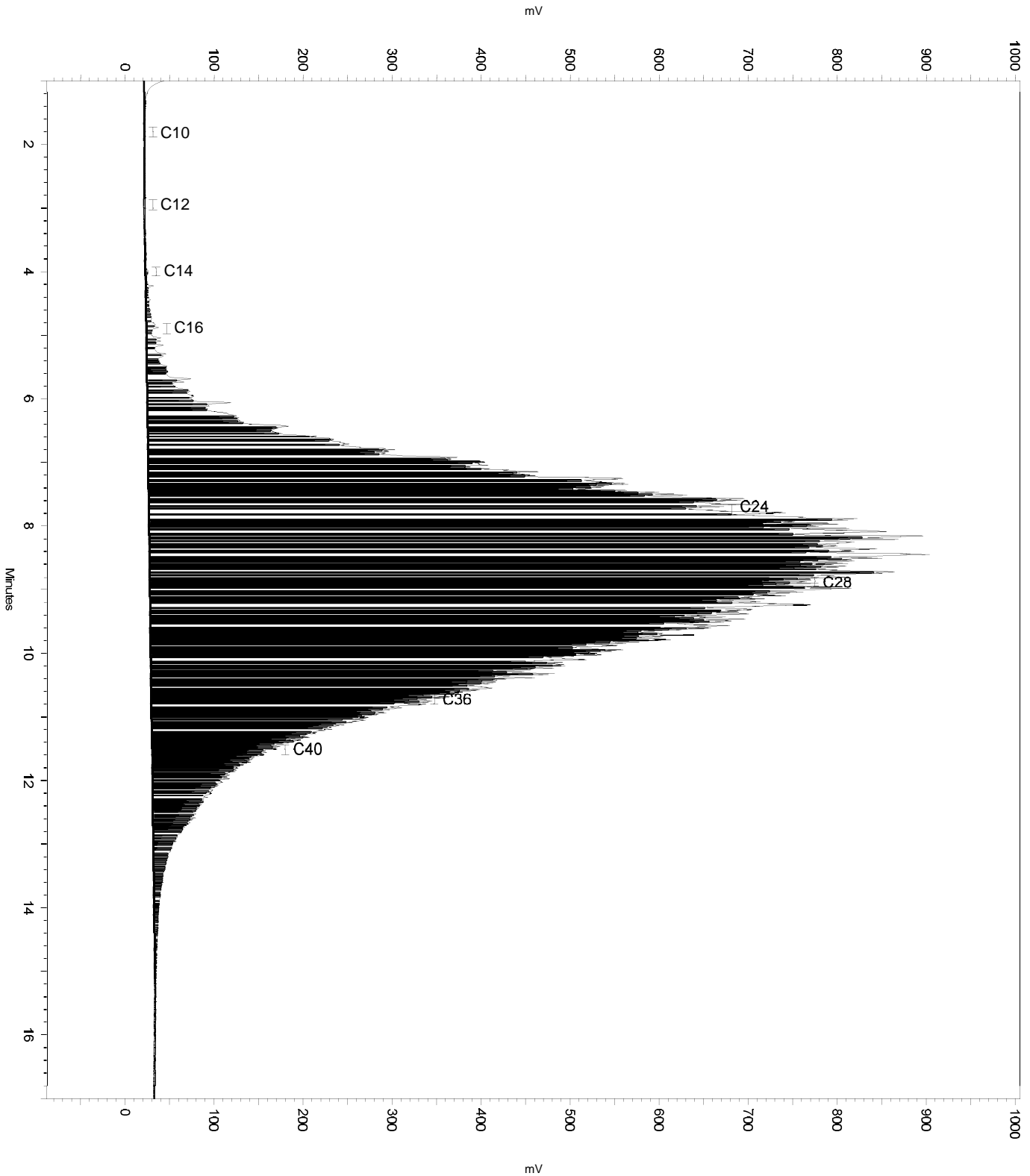
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a008				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	3.618	15.295	0

Sample Name: ical,s36926,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a008
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 8:49:05 AM
Analysis Date: 10/12/2018 6:12:47 AM
Instrument: GC26A Vial: 8 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a008
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 8:49:05 AM
 Analysis Date: 10/12/2018 6:10:47 AM
 Instrument: GC26A Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	114972	0.000 CAL
DSL:10-14	38271	0.000 CAL
DSL:10-22	3385770	0.000 CAL
DSL:10-24	11302387	0.000 CAL
DSL:10-28	24853312	0.000 CAL
DSL:12-24	11284337	0.000 CAL
DSL:12-28	24835260	0.000 CAL
DSL:14-24	11271834	0.000 CAL
DSL:16-24	11224435	0.000 CAL
MO:22-32	25358204	2500.000 CAL
MO:24-36	19870824	2500.000 CAL
MO:28-40	5842543	2500.000 CAL
BUNKC:10-40	30089128	0.000 CAL
BUNKC:12-40	30071076	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

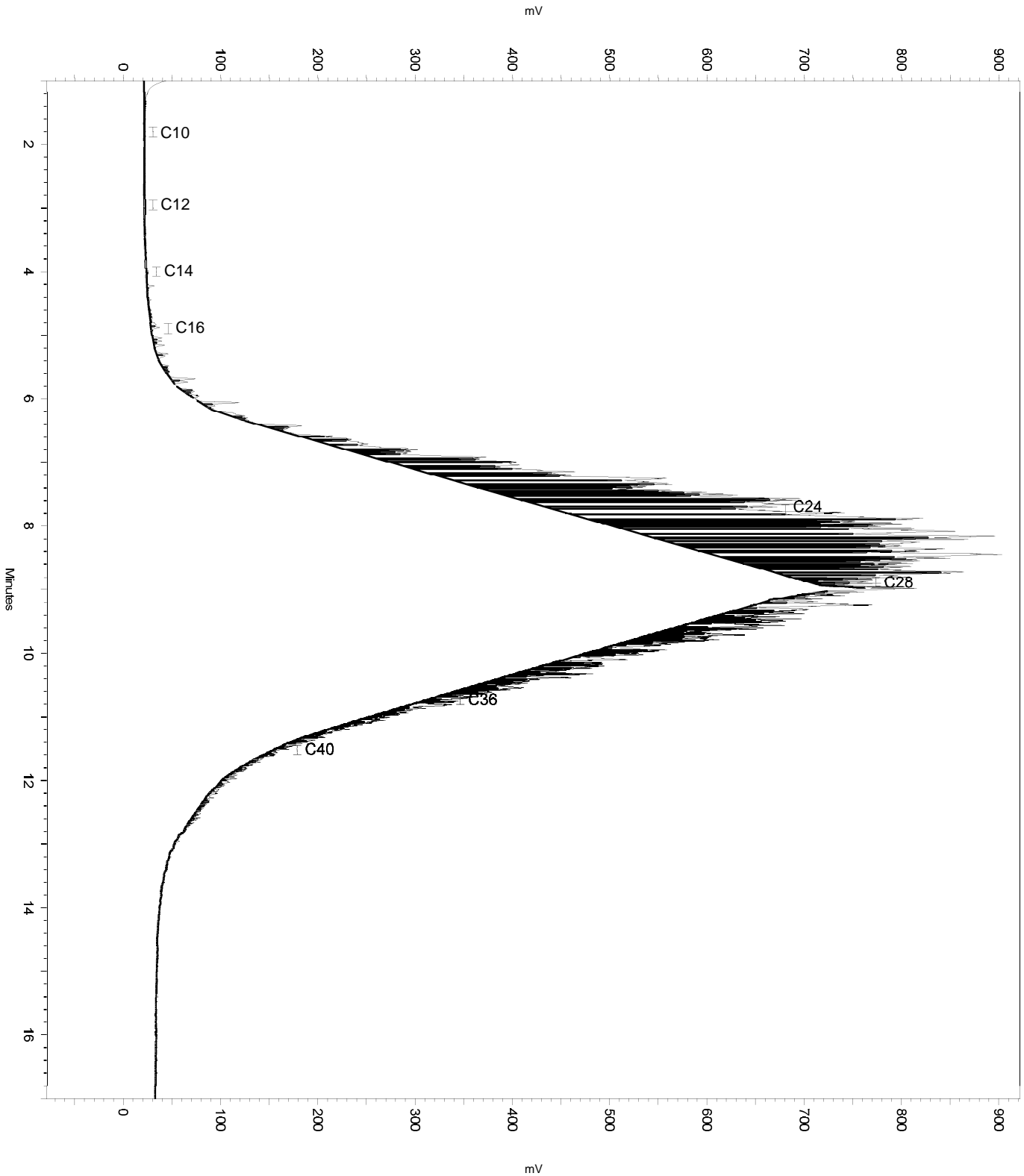
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36926,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a008
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 8:49:05 AM
Analysis Date: 10/12/2018 6:10:47 AM
Instrument: GC26A Vial: 8 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

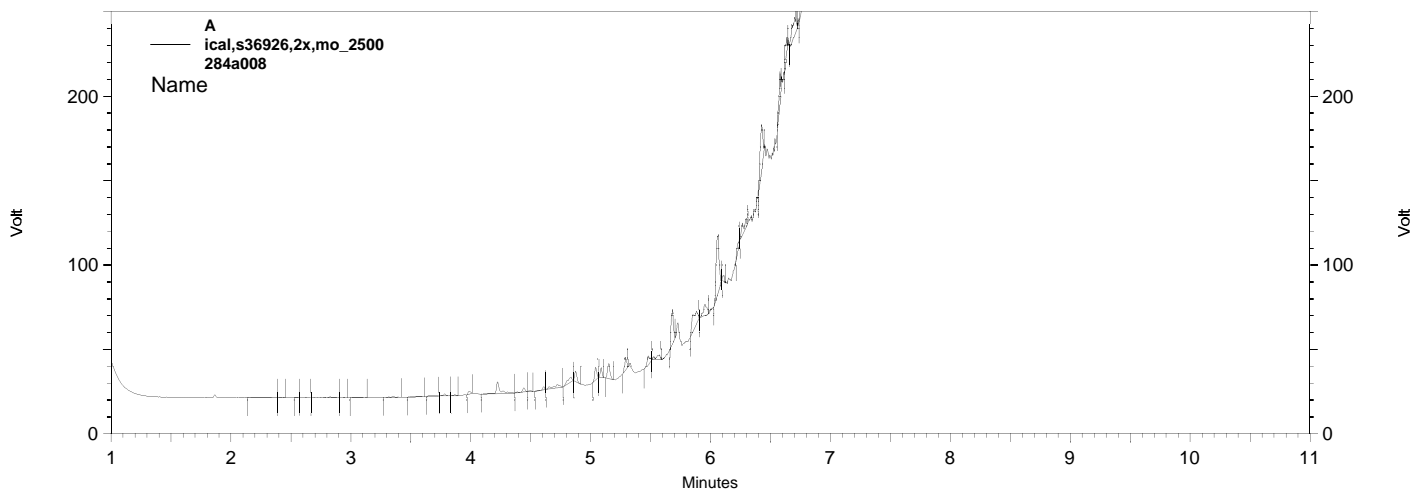


Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\284a008.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/11/2018 8:49:05 AM
 Analysis Date: 10/11/2018 9:09:14 AM
 Instrument: GC26A Vial: 8 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results	Retention Time	Area	Concentration (ppm)
Component Name			
o-Terphenyl			0.000 BDL
Hexacosane	8.358	78249	1.427



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met ical,s36926,2x,mo_2500

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

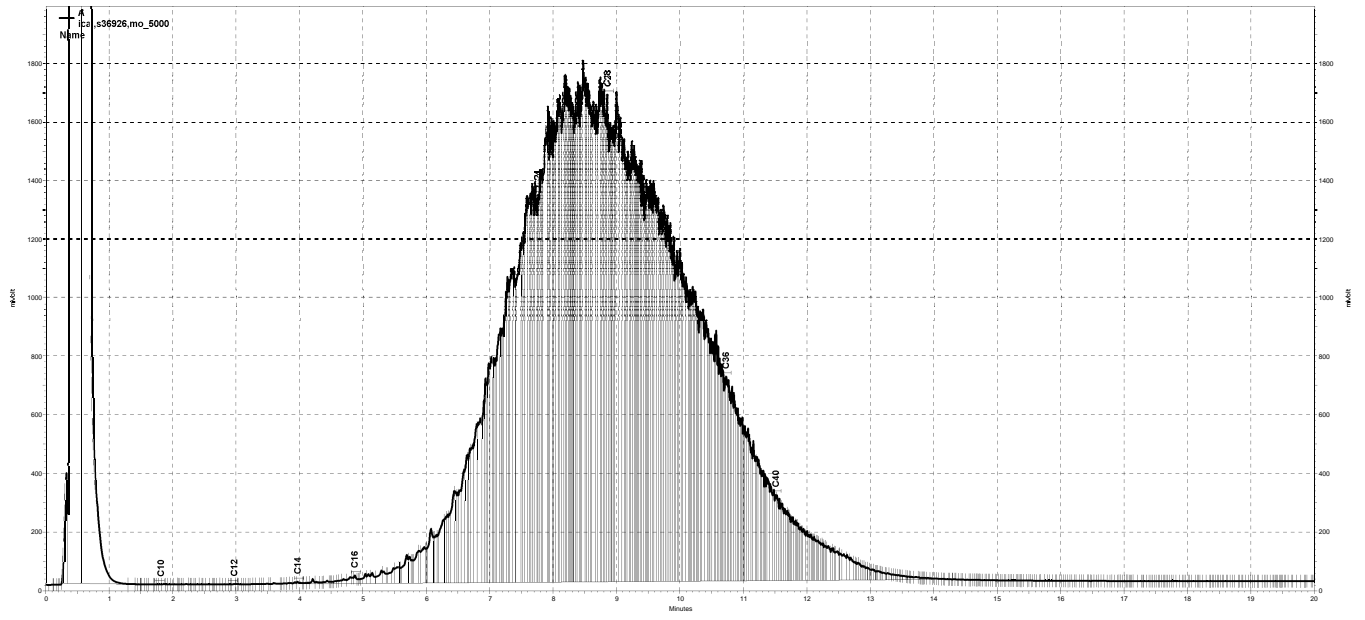
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\284a008_1BE3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a009, A

Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 9:17:17 AM
 Analysis Date: 10/12/2018 6:12:53 AM
 Instrument: GC26A Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	640454	0.000 CAL
DSL:10-14	120623	0.000 CAL
DSL:10-22	33371036	0.000 CAL
DSL:10-24	76278552	0.000 CAL
DSL:10-28	184327216	0.000 CAL
DSL:12-24	76253856	0.000 CAL
DSL:12-28	184302512	0.000 CAL
DSL:14-24	76200144	0.000 CAL
DSL:16-24	75786688	0.000 CAL
MO:22-32	230460192	5000.000 CAL
MO:24-36	236736288	5000.000 CAL
MO:28-40	154062416	5000.000 CAL
BUNKC:10-40	322564224	0.000 CAL
BUNKC:12-40	322539520	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

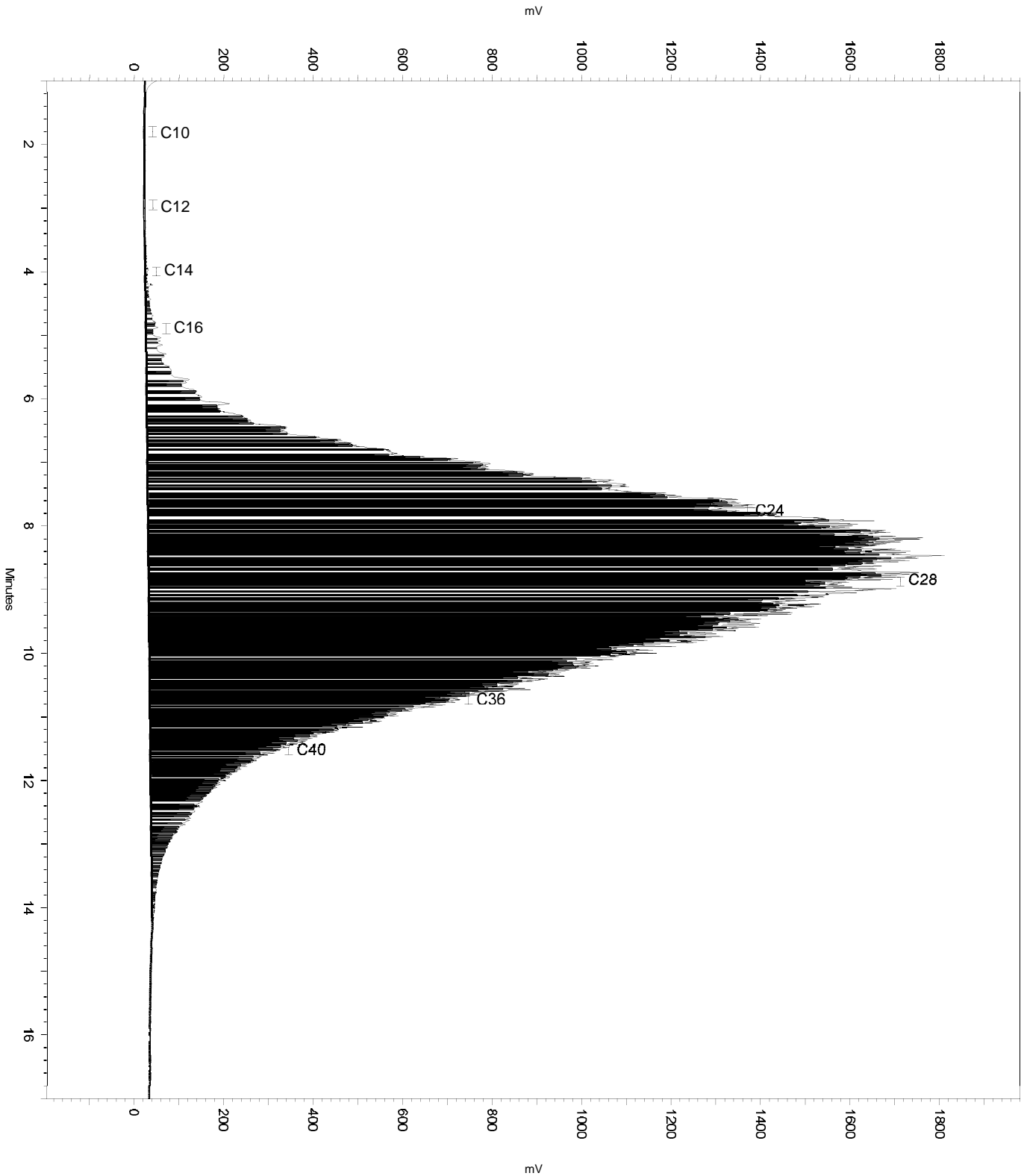
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a009				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	3.695	14.294	0

Sample Name: ical,s36926,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a009
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 9:17:17 AM
Analysis Date: 10/12/2018 6:12:53 AM
Instrument: GC26A Vial: 9 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 9:17:17 AM
 Analysis Date: 10/12/2018 6:11:09 AM
 Instrument: GC26A Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	207040	0.000 CAL
DSL:10-14	75136	0.000 CAL
DSL:10-22	3299805	0.000 CAL
DSL:10-24	8705175	0.000 CAL
DSL:10-28	17121712	0.000 CAL
DSL:12-24	8680474	0.000 CAL
DSL:12-28	17097012	0.000 CAL
DSL:14-24	8648682	0.000 CAL
DSL:16-24	8539887	0.000 CAL
MO:22-32	20352400	5000.000 CAL
MO:24-36	19954108	5000.000 CAL
MO:28-40	12972464	5000.000 CAL
BUNKC:10-40	29312824	0.000 CAL
BUNKC:12-40	29288124	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

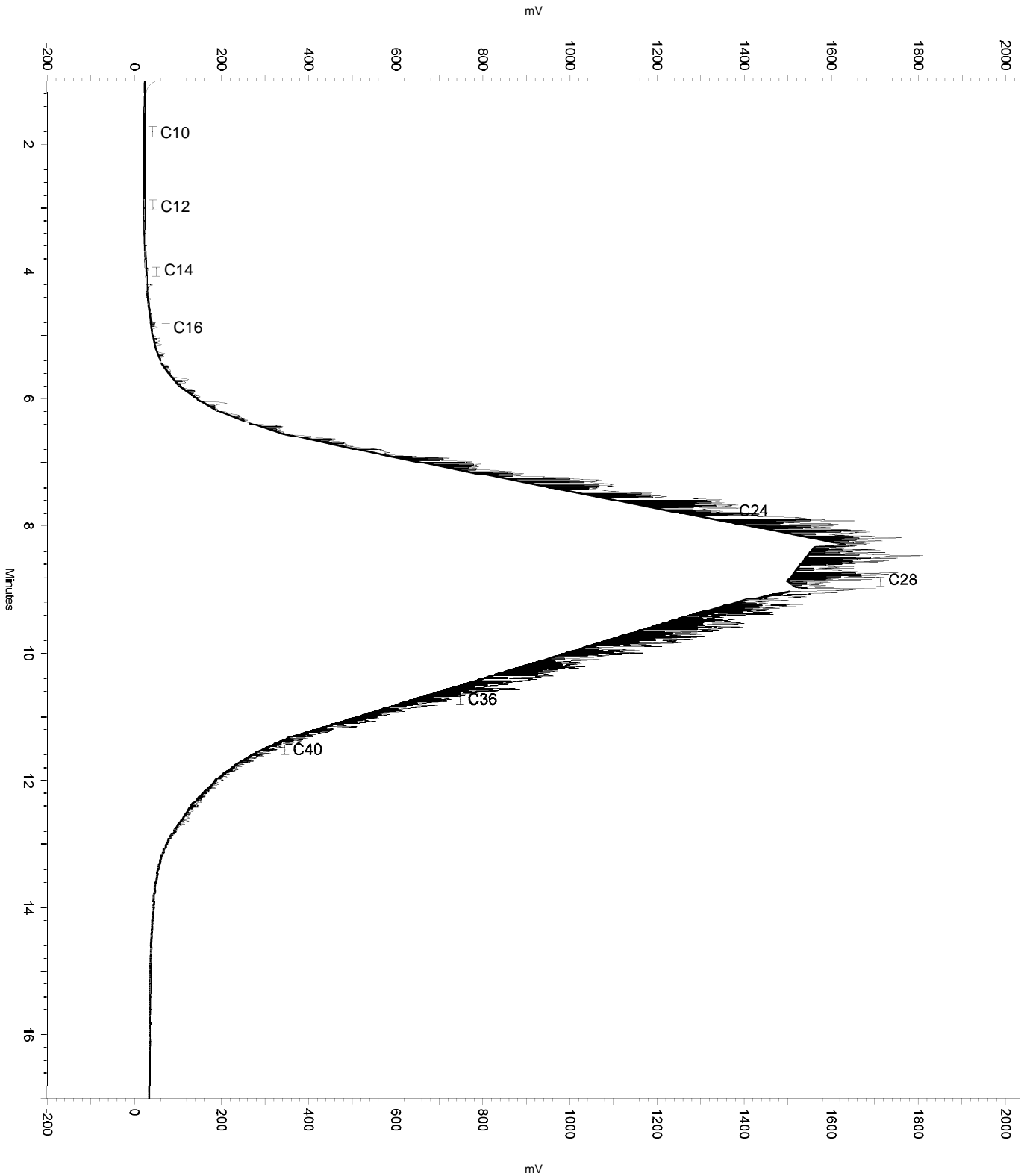
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s36926,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a009
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 9:17:17 AM
Analysis Date: 10/12/2018 6:11:09 AM
Instrument: GC26A Vial: 9 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

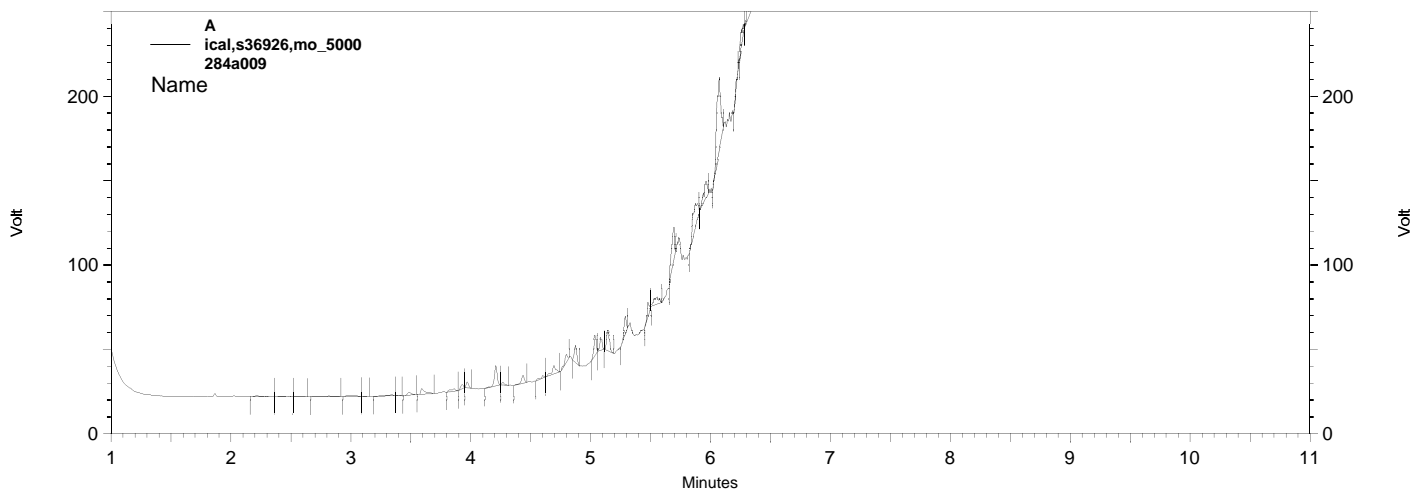


Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC26\Sequence\2018\284a009.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothersurr283.met
 Run Date: 10/11/2018 9:17:17 AM
 Analysis Date: 10/11/2018 9:37:22 AM
 Instrument: GC26A Vial: 9 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results	Retention Time	Area	Concentration (ppm)
Component Name			
o-Terphenyl			0.000 BDL
Hexacosane	8.280	168756	3.077



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothersurr283.met ical,s36926,mo_5000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

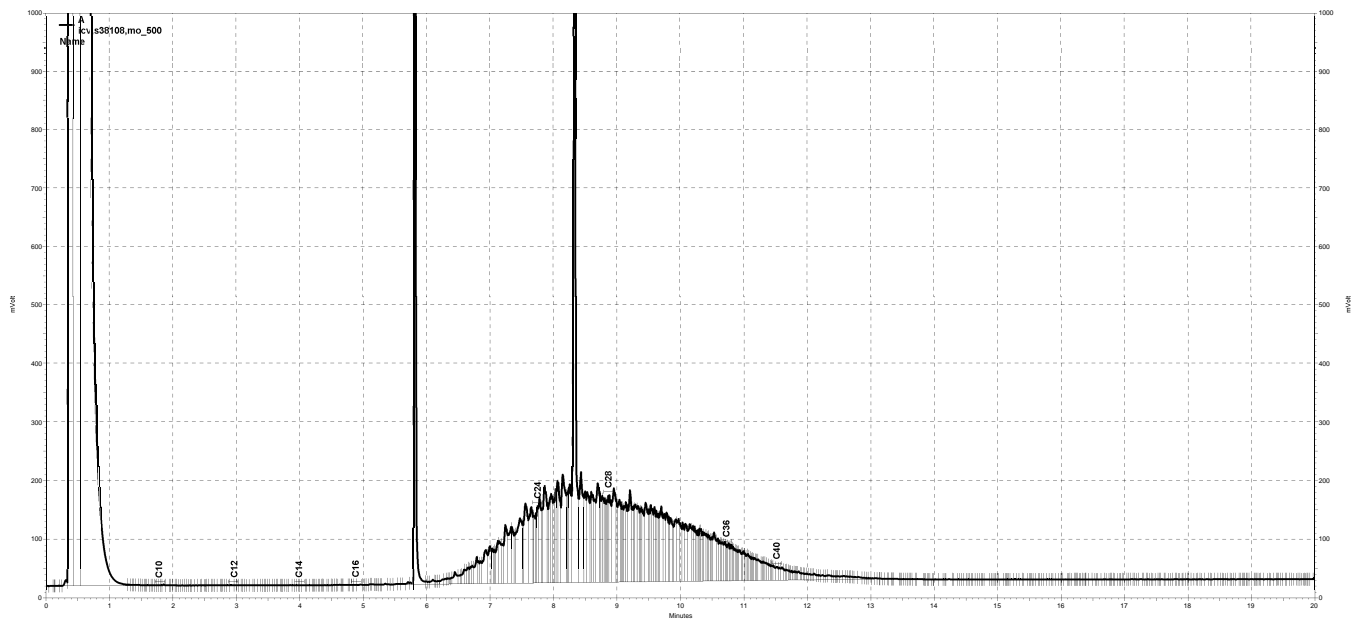
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\284a009_1BE4.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a011, A

Sample Name: icv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a011
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 10:13:29 AM
 Analysis Date: 10/12/2018 6:20:12 AM
 Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	53532	1.151
DSL:10-14	44887	2.063
DSL:10-22	5886207	106.457
DSL:10-24	9653654	169.680
DSL:10-28	22441062	389.376
DSL:12-24	9621974	198.533
DSL:12-28	22409382	455.425
DSL:14-24	9609572	260.753
DSL:16-24	9601609	366.356
MO:22-32	24508444	562.282
MO:24-36	25286058	581.286
MO:28-40	14078259	534.471
BUNKC:10-40	35581792	1713.793
BUNKC:12-40	35550112	1769.499

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

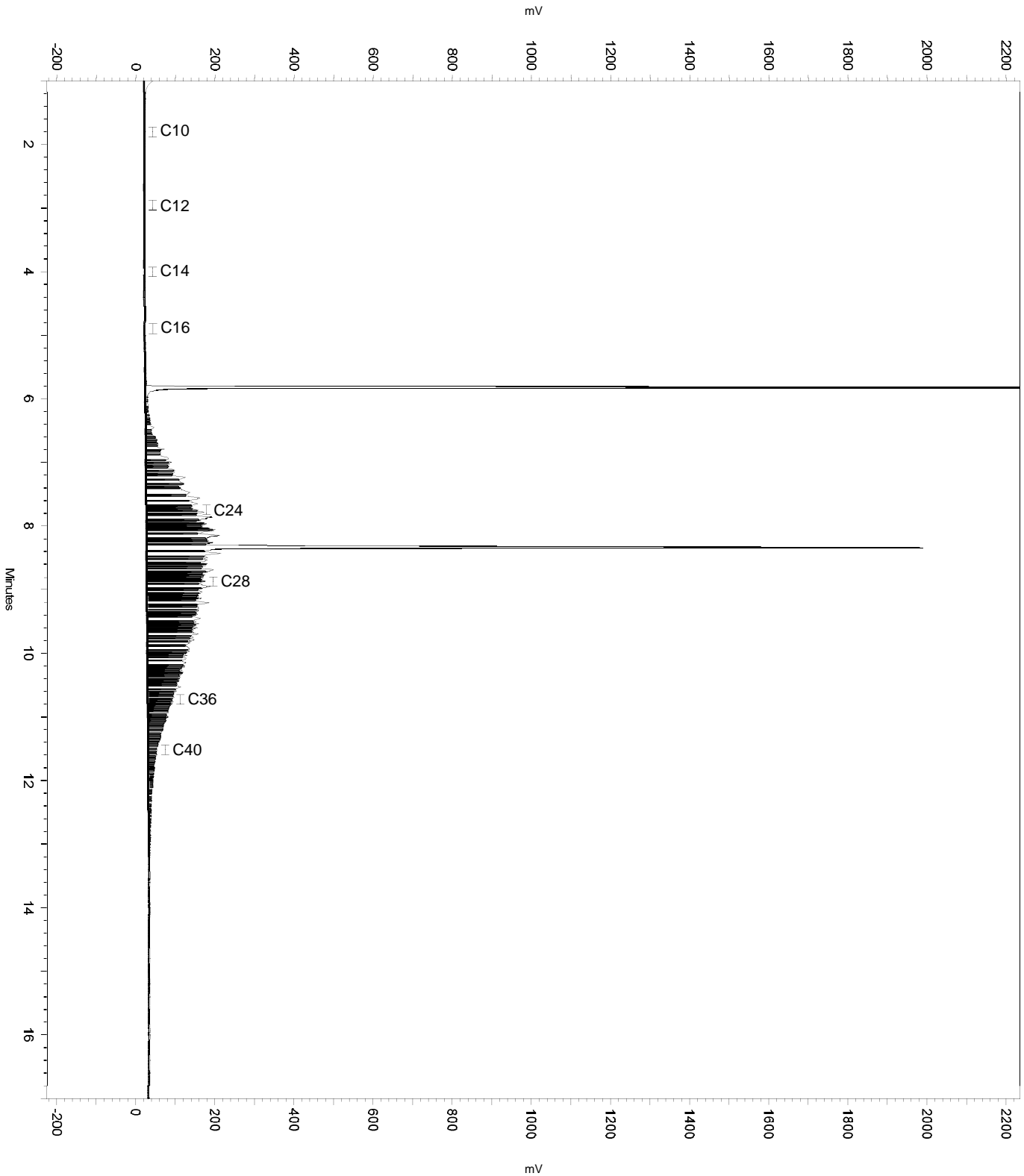
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	5.47	13.336	0
No	Manual Peak	5.783	6.044	0
No	Split Peak	5.933	0	0
No	Manual Peak	8.116	8.912	0
No	Split Peak	8.287	0	0
No	Split Peak	8.392	0	0

Sample Name: icv,s38108,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a011
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 10:13:29 AM
Analysis Date: 10/12/2018 6:20:12 AM
Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: icv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a011
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
 Run Date: 10/11/2018 10:13:29 AM
 Analysis Date: 10/12/2018 6:20:00 AM
 Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	53532	1.151
DSL:10-14	44887	2.063
DSL:10-22	4369612	79.028
DSL:10-24	5948502	104.555
DSL:10-28	11926826	206.943
DSL:12-24	5916822	122.084
DSL:12-28	11895146	241.745
DSL:14-24	5904420	160.215
DSL:16-24	5896457	224.983
MO:22-32	8536018	195.837
MO:24-36	7748811	178.133
MO:28-40	1574820	59.787
BUNKC:10-40	13426169	646.670
BUNKC:12-40	13394489	666.708

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

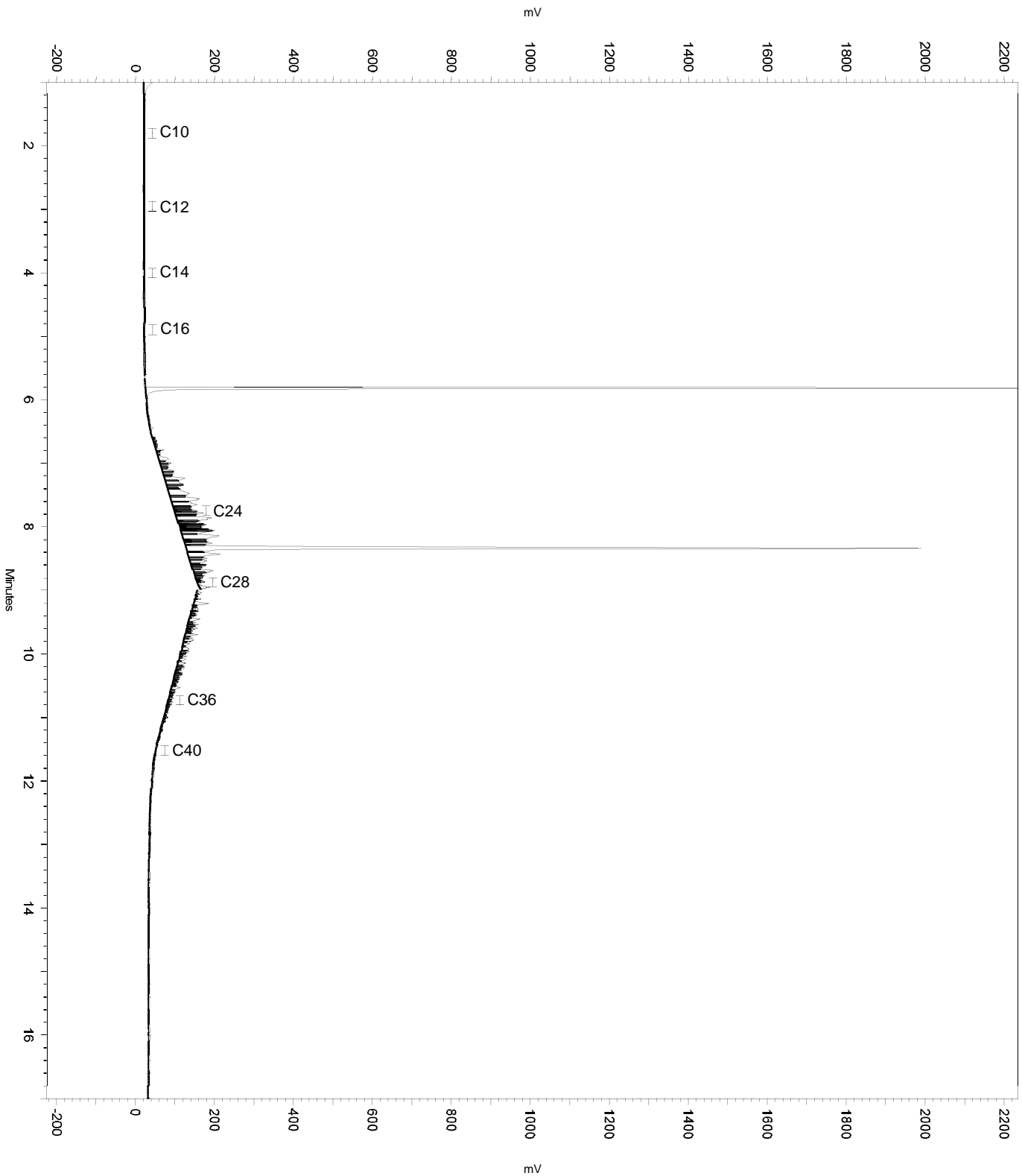
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	5.783	6.044	0
No	Split Peak	5.933	0	0
No	Manual Peak	8.116	8.912	0
No	Split Peak	8.287	0	0
No	Split Peak	8.392	0	0

Sample Name: icv,s38108,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a011
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH284.met
Run Date: 10/11/2018 10:13:29 AM
Analysis Date: 10/12/2018 6:20:00 AM
Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

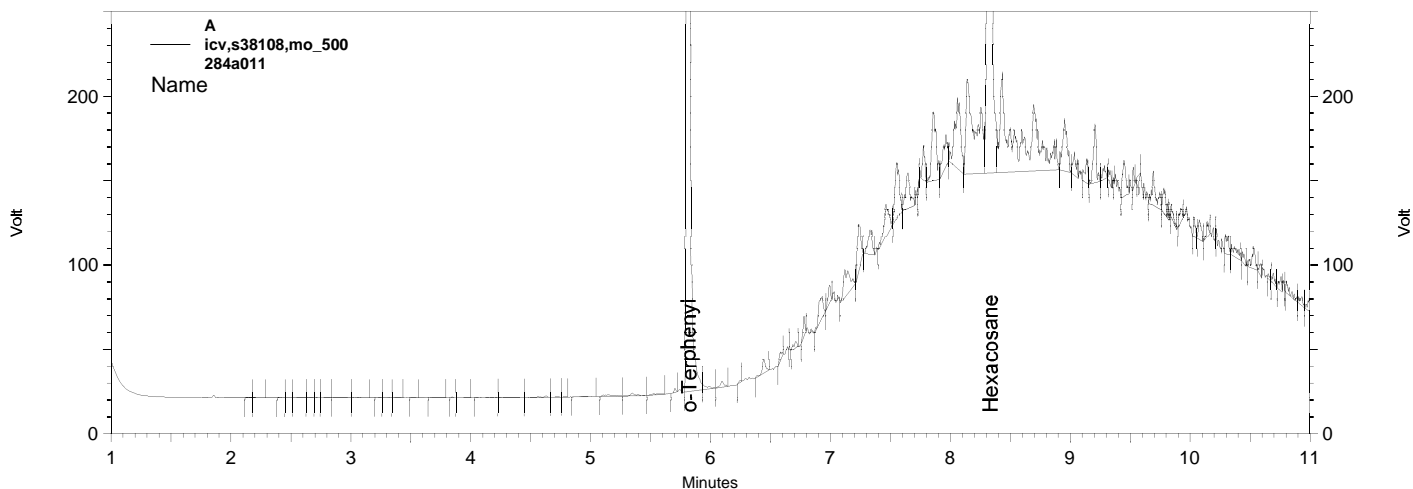


Sample Name: icv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a011
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothisurr283.met
 Run Date: 10/11/2018 10:13:29 AM
 Analysis Date: 10/12/2018 6:18:59 AM
 Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.823	3734030	55.124
Hexacosane	8.338	3096625	56.465



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothisurr283.met, mo_500

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	5.783	6.044	0
Yes	Split Peak	5.933	0	0
Yes	Manual Peak	8.116	8.912	0
Yes	Split Peak	8.287	0	0
Yes	Split Peak	8.392	0	0

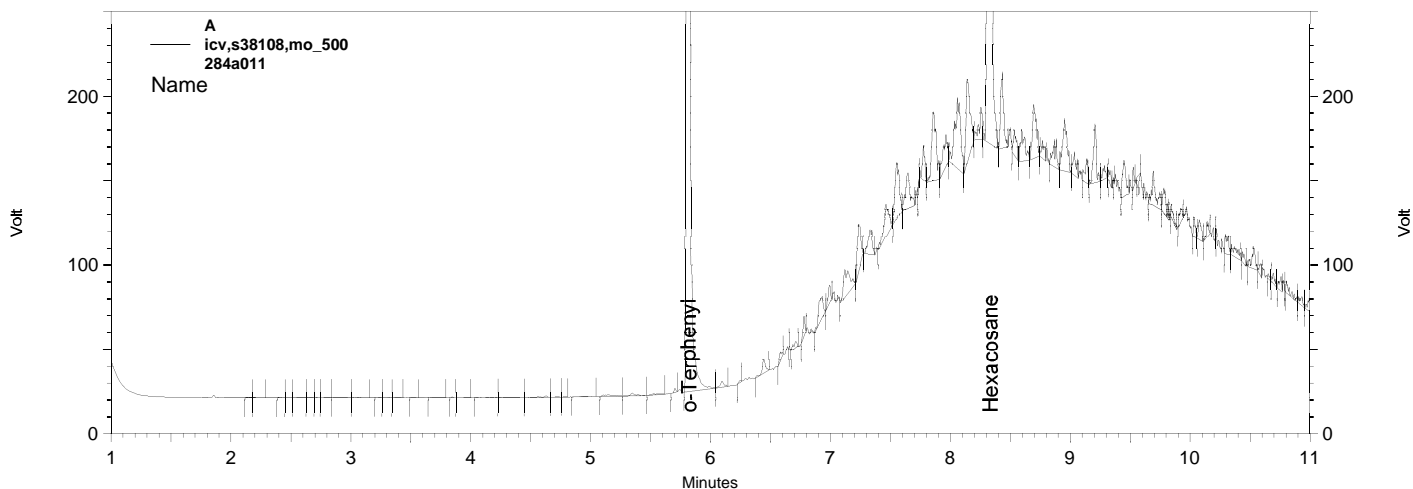
Curtis & Tompkins Ltd.

Sample Name: icv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\284a011
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\284.seq
 Software Version 3.1.7
 Method Name: \\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/11/2018 10:13:29 AM
 Analysis Date: 10/12/2018 6:17:01 AM
 Instrument: GC26A Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.823	3742596	55.250
Hexacosane	8.338	2991561	54.550



\\kraken\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met, mo_500

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 978335887001
 Units : mg/L

Name : DSL_233
 Date : 21-AUG-2018 17:26
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	233a015	978335887015	DSL_10	21-AUG-2018 17:26	S36610
L2	233a016	978335887016	DSL_100	21-AUG-2018 17:51	S36611
L3	233a017	978335887017	DSL_500	21-AUG-2018 18:16	S36613
L4	233a018	978335887018	DSL_1000	21-AUG-2018 18:41	S36615
L5	233a019	978335887019	DSL_5000	21-AUG-2018 19:06	S36609

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	402979	449458	508144	494644	471794	AVRG		2.15E-6		465404	9	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-13	100.00	-3	500.00	9	1000.0	6	5000.0	1

CB1 08/22/18 : Corrected automatically drawn baseline in all levels.

Analyst: CB1

Date: 08/22/18

Reviewer: EAH

Date: 08/23/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A
Calnum : 978335887001

Name : DSL_233
Cal Date : 21-AUG-2018

ICV 978335887021 (233a021 21-AUG-2018) stds: S37561

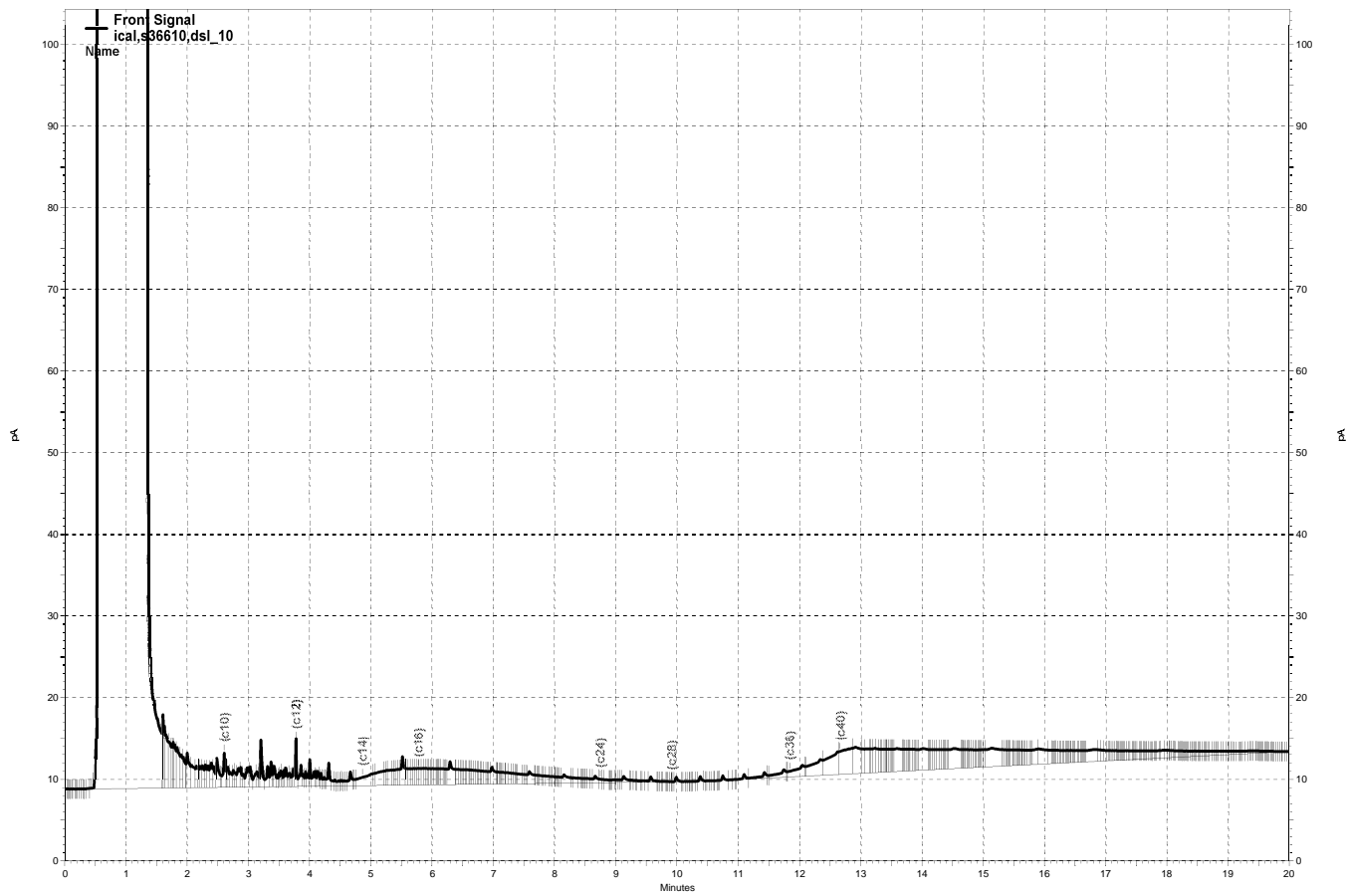
Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	489.0	mg/L	-2	15	

Analyst: CB1

Date: 08/22/18

Reviewer: AMP

Date: 08/22/18



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a015.dat, Front Signal

Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 5:26:27 PM
 Analysis Date: 8/22/2018 8:48:45 AM
 Instrument: GC27 (Offline)A Vial: 15 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		2312515	0.000 CAL
DSL:10-14		1464332	10.000 CAL
DSL:10-22		3883773	10.000 CAL
DSL:10-24		4029791	10.000 CAL
DSL:10-28		4145565	10.000 CAL
DSL:12-24		3118175	10.000 CAL
DSL:12-28		3233949	10.000 CAL
DSL:14-24		2565459	10.000 CAL
DSL:16-24		1842456	10.000 CAL
MO:22-32		368907	0.000 CAL
MO:24-36		290033	0.000 CAL
MO:28-40		736457	0.000 CAL
BUNKC:10-40		4869546	0.000 CAL
BUNKC:12-40		3957930	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

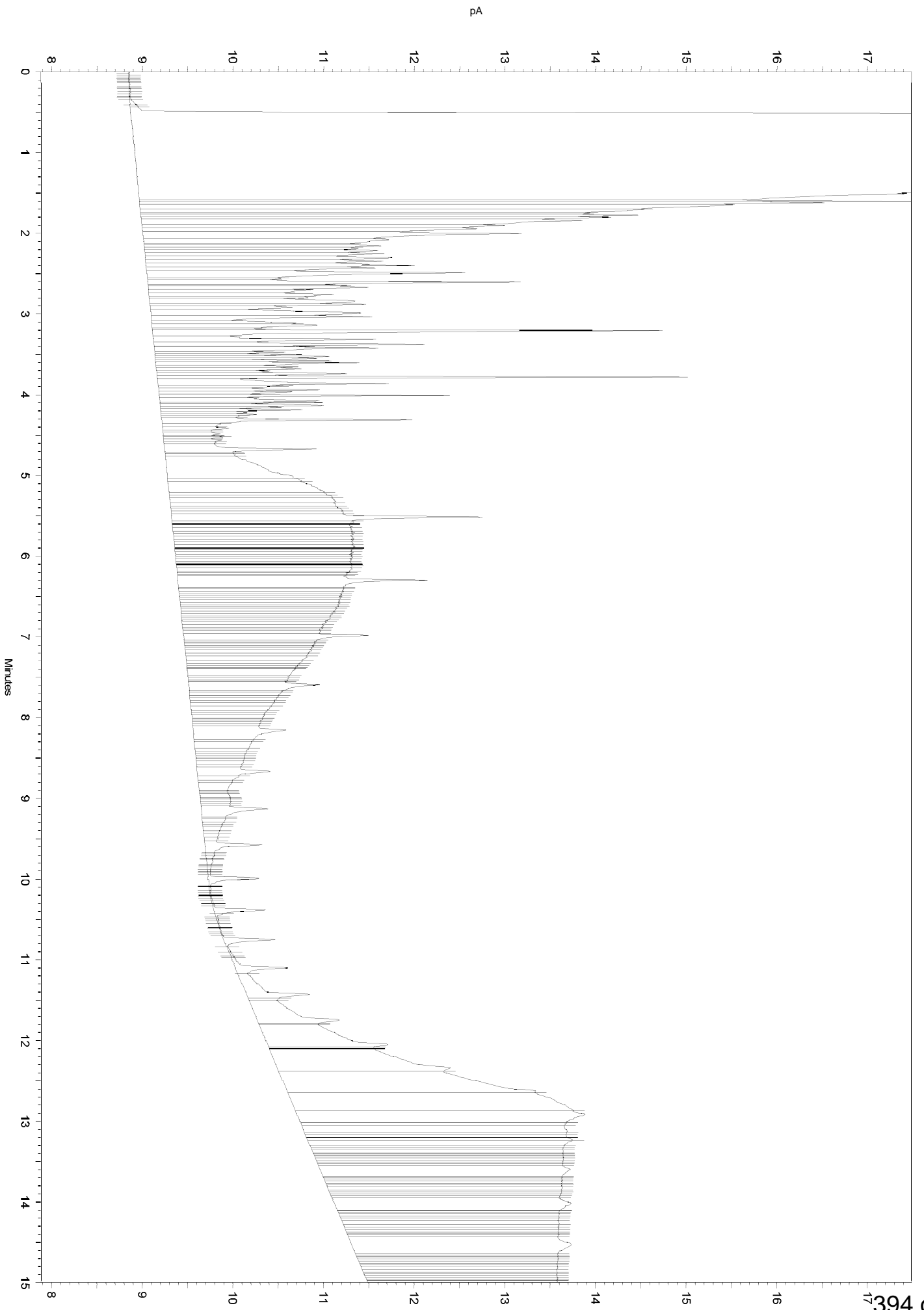
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold            0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a015.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Start       10.14     0.305   0
  
```



Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 5:26:27 PM
 Analysis Date: 8/22/2018 8:42:36 AM
 Instrument: GC27 (Offline)A Vial: 15 Operator: teh
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		1301839	0.000 CAL
DSL:10-14		678796	10.000 CAL
DSL:10-22		2558444	10.000 CAL
DSL:10-24		2662452	10.000 CAL
DSL:10-28		2743725	10.000 CAL
DSL:12-24		2250556	10.000 CAL
DSL:12-28		2331829	10.000 CAL
DSL:14-24		1983656	10.000 CAL
DSL:16-24		1460358	10.000 CAL
MO:22-32		272124	0.000 CAL
MO:24-36		245578	0.000 CAL
MO:28-40		733905	0.000 CAL
BUNKC:10-40		3467423	0.000 CAL
BUNKC:12-40		3055527	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

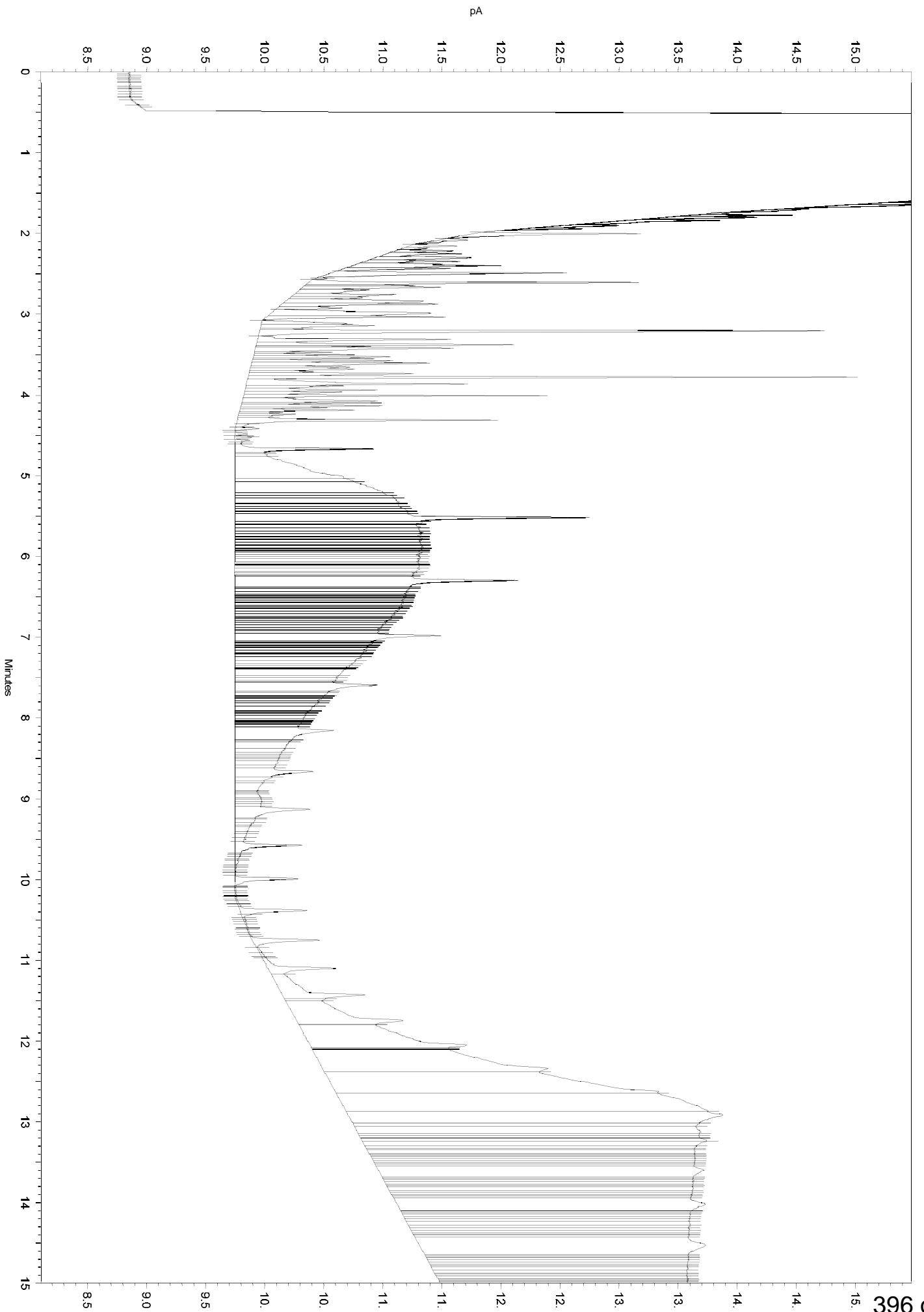
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold           0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a015.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

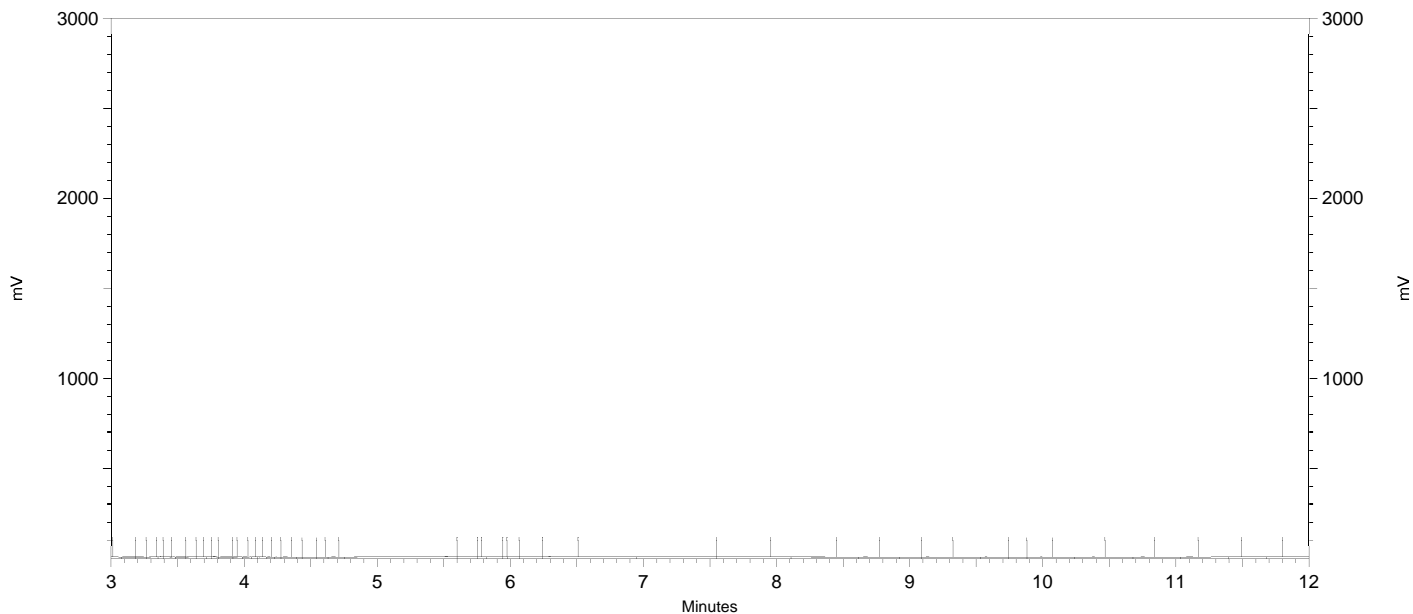


Sample Name: **ib,calib**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_227.met
 Run Date: 8/21/2018 5:26:27 PM
 Analysis Date: 8/21/2018 5:46:29 PM
 Instrument: GC27A Vial: 15 Operator: teh4
 Sample Amount: 1

GC27a
TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0     100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15     500
Yes Integration Off     0       2       0
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\233a015.dat_0AA3.tmp
                        Start   Stop
Enabled Event Type    (Minutes) (Minutes) Value
-----
None
  
```

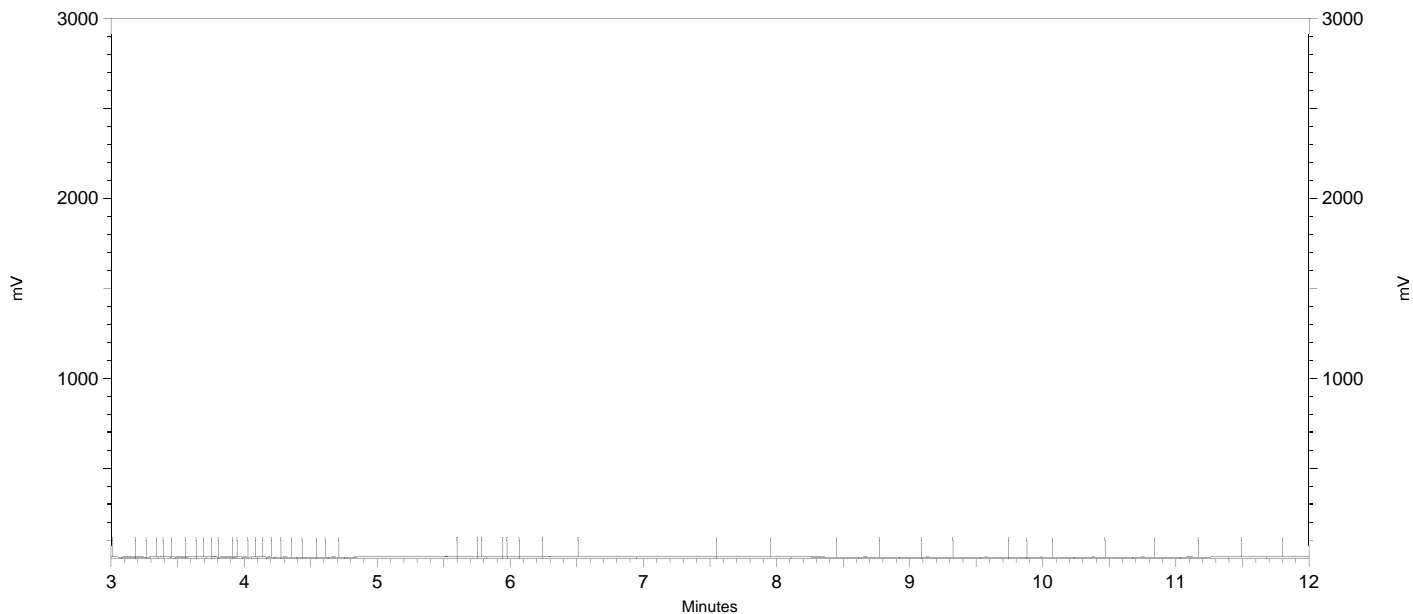
Sample Name: **ib,calib**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 5:26:27 PM
 Analysis Date: 8/22/2018 1:19:17 PM
 Instrument: GC27 (Offline)A Vial: 15 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

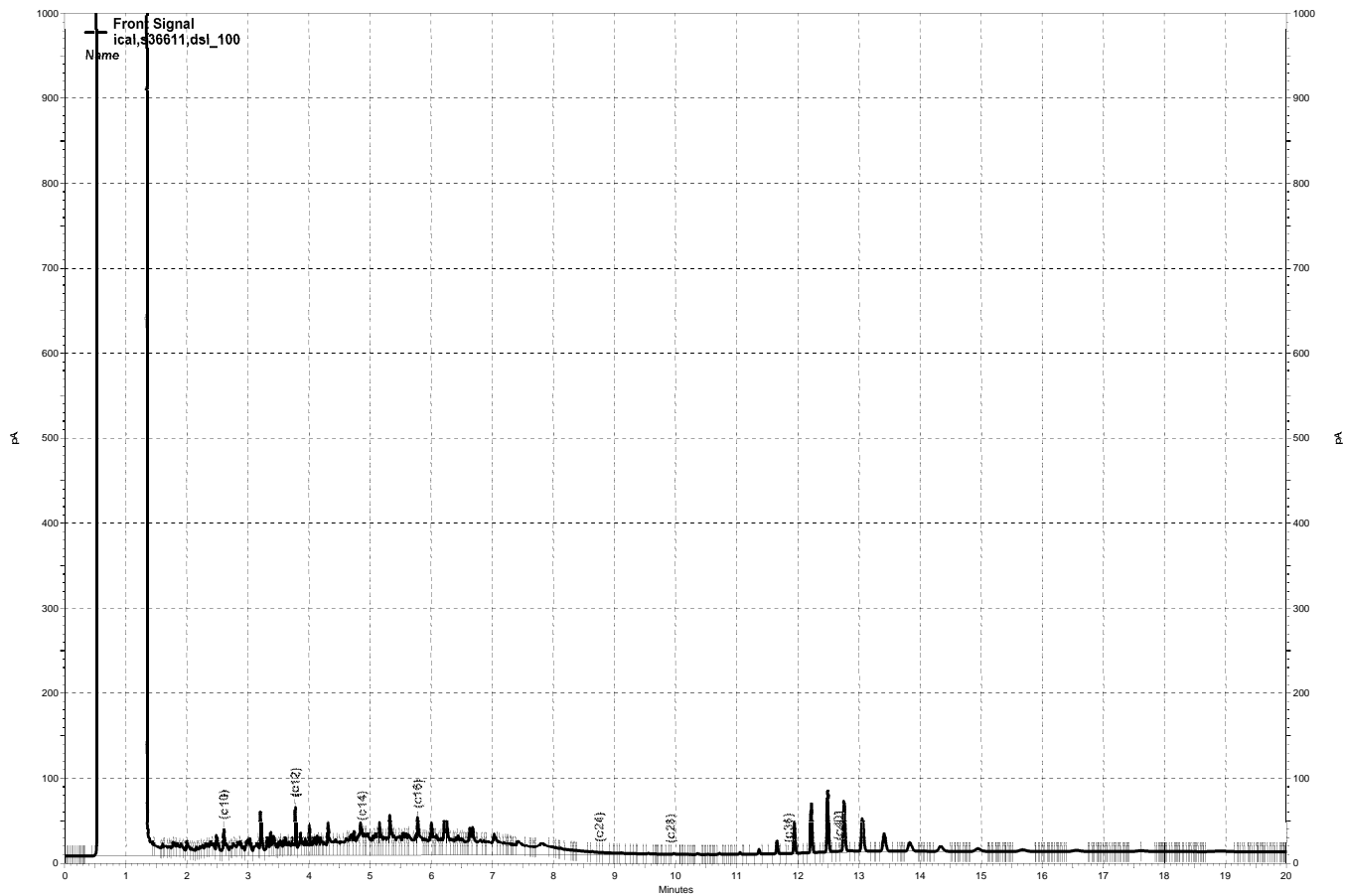
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a015.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
No Move BL Start       10.14  0.305  0
  
```



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a016.dat, Front Signal

Sample Name: ical,s36611,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a016.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 5:51:30 PM
 Analysis Date: 8/22/2018 8:48:49 AM
 Instrument: GC27 (Offline)A Vial: 16 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		27061759	0.000 CAL
DSL:10-14		17283454	100.000 CAL
DSL:10-22		43711928	100.000 CAL
DSL:10-24		44945783	100.000 CAL
DSL:10-28		45409195	100.000 CAL
DSL:12-24		38046436	100.000 CAL
DSL:12-28		38509848	100.000 CAL
DSL:14-24		29554784	100.000 CAL
DSL:16-24		19598533	100.000 CAL
MO:22-32		2191500	0.000 CAL
MO:24-36		1011552	0.000 CAL
MO:28-40		2787371	0.000 CAL
BUNKC:10-40		48158586	0.000 CAL
BUNKC:12-40		41259239	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

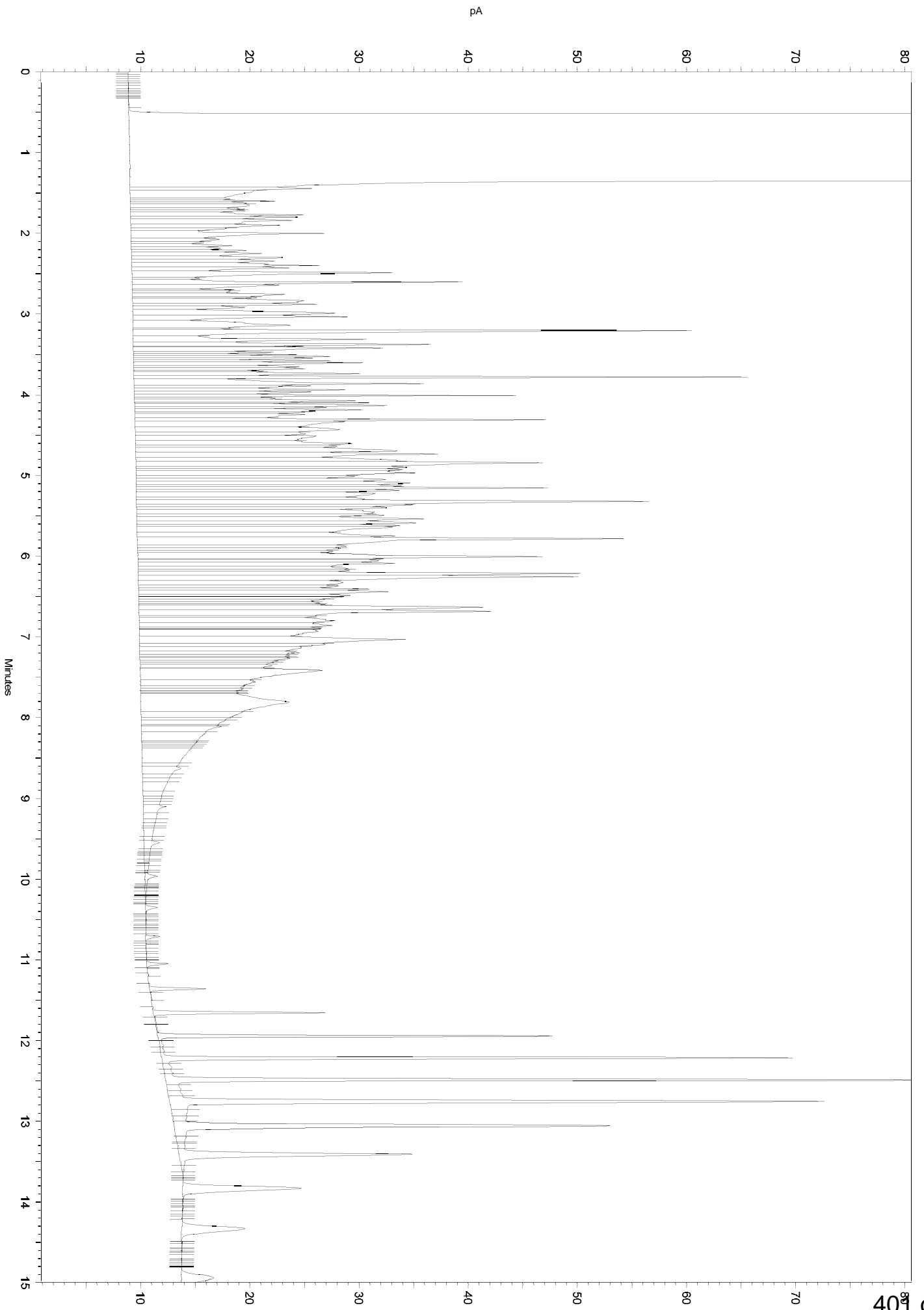
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a016.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Start      10.302  0.304   0
  
```



Sample Name: ical,s36611,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a016.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 5:51:30 PM
 Analysis Date: 8/22/2018 8:42:58 AM
 Instrument: GC27 (Offline)A Vial: 16 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		20762418	0.000 CAL
DSL:10-14		12403828	100.000 CAL
DSL:10-22		35017429	100.000 CAL
DSL:10-24		35828886	100.000 CAL
DSL:10-28		35986228	100.000 CAL
DSL:12-24		31497948	100.000 CAL
DSL:12-28		31655290	100.000 CAL
DSL:14-24		25037137	100.000 CAL
DSL:16-24		16561825	100.000 CAL
MO:22-32		1353166	0.000 CAL
MO:24-36		592274	0.000 CAL
MO:28-40		2752956	0.000 CAL
BUNKC:10-40		38725456	0.000 CAL
BUNKC:12-40		34394518	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

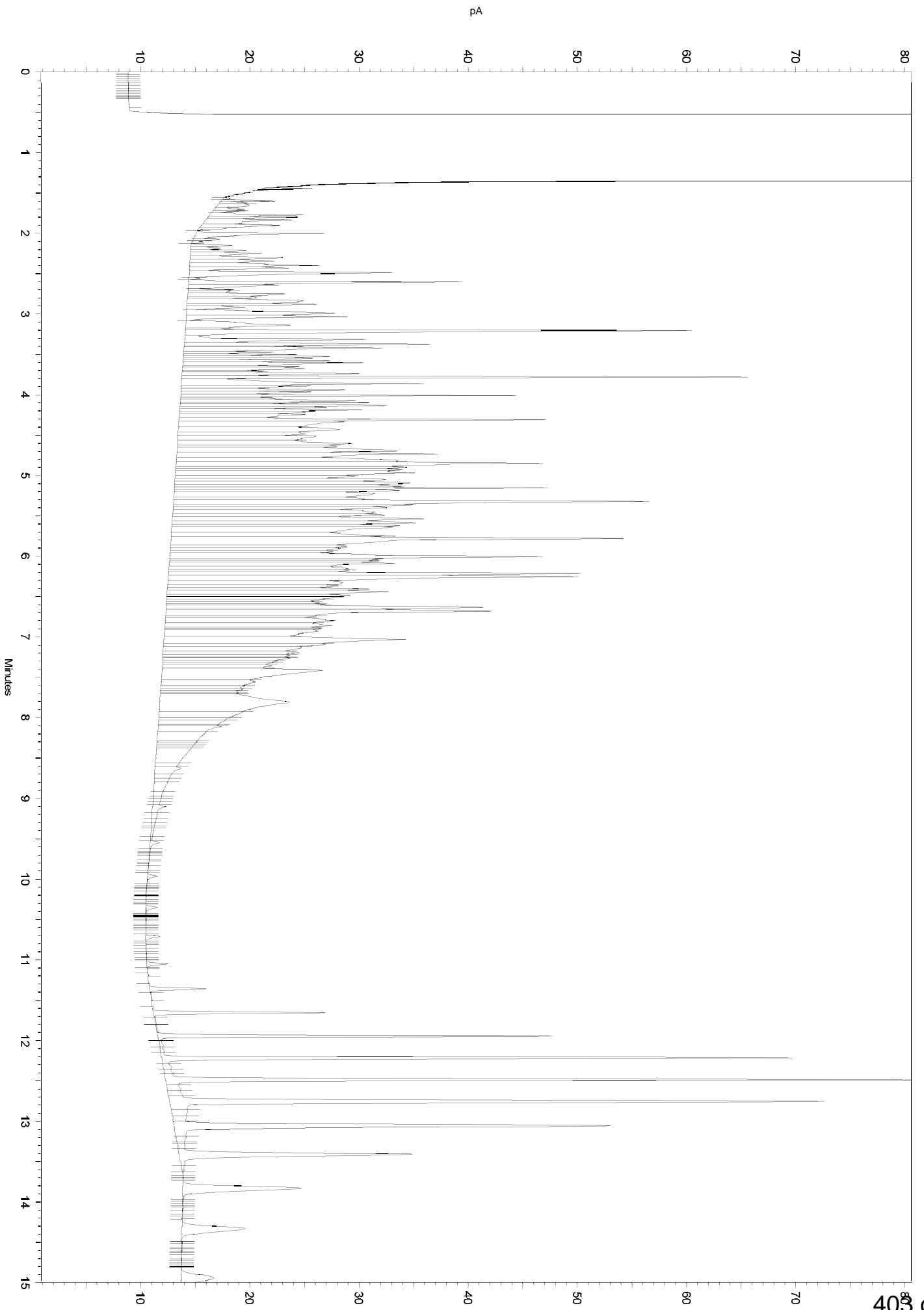
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a016.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

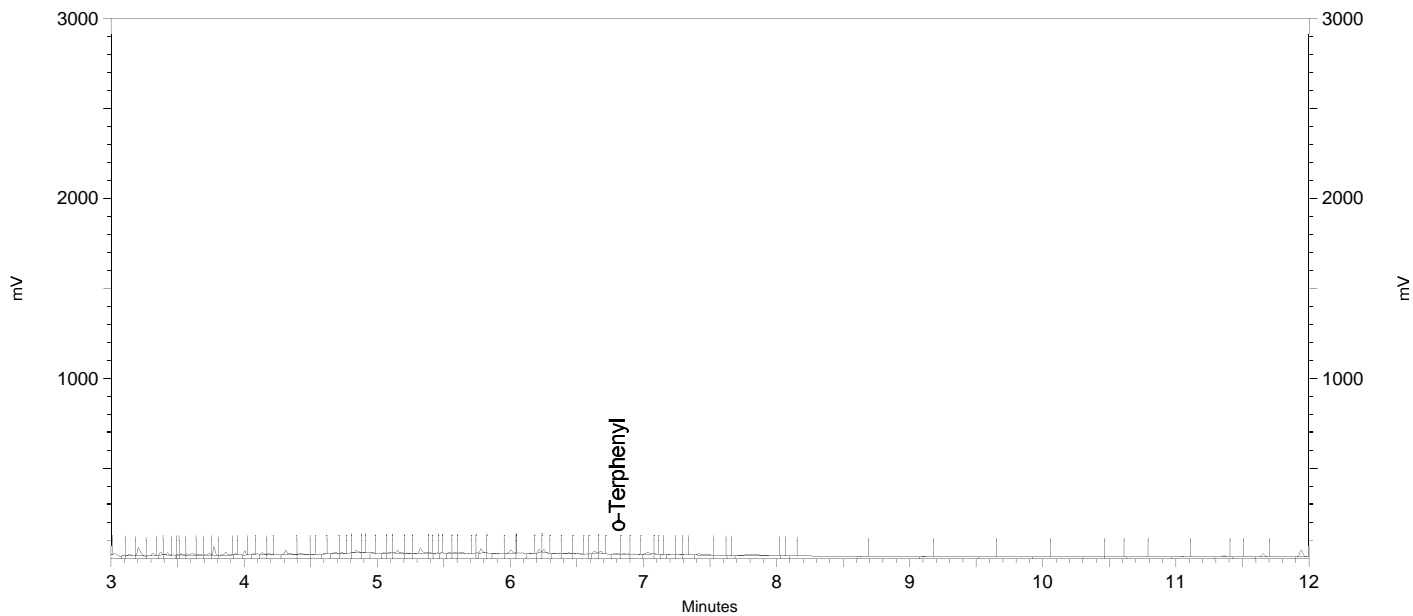



Sample Name: ical,s36610,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a016.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 5:51:30 PM
 Analysis Date: 8/22/2018 1:19:27 PM
 Instrument: GC27 (Offline)A Vial: 16 Operator: teh
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.802	39817	0.099
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```
=====
```

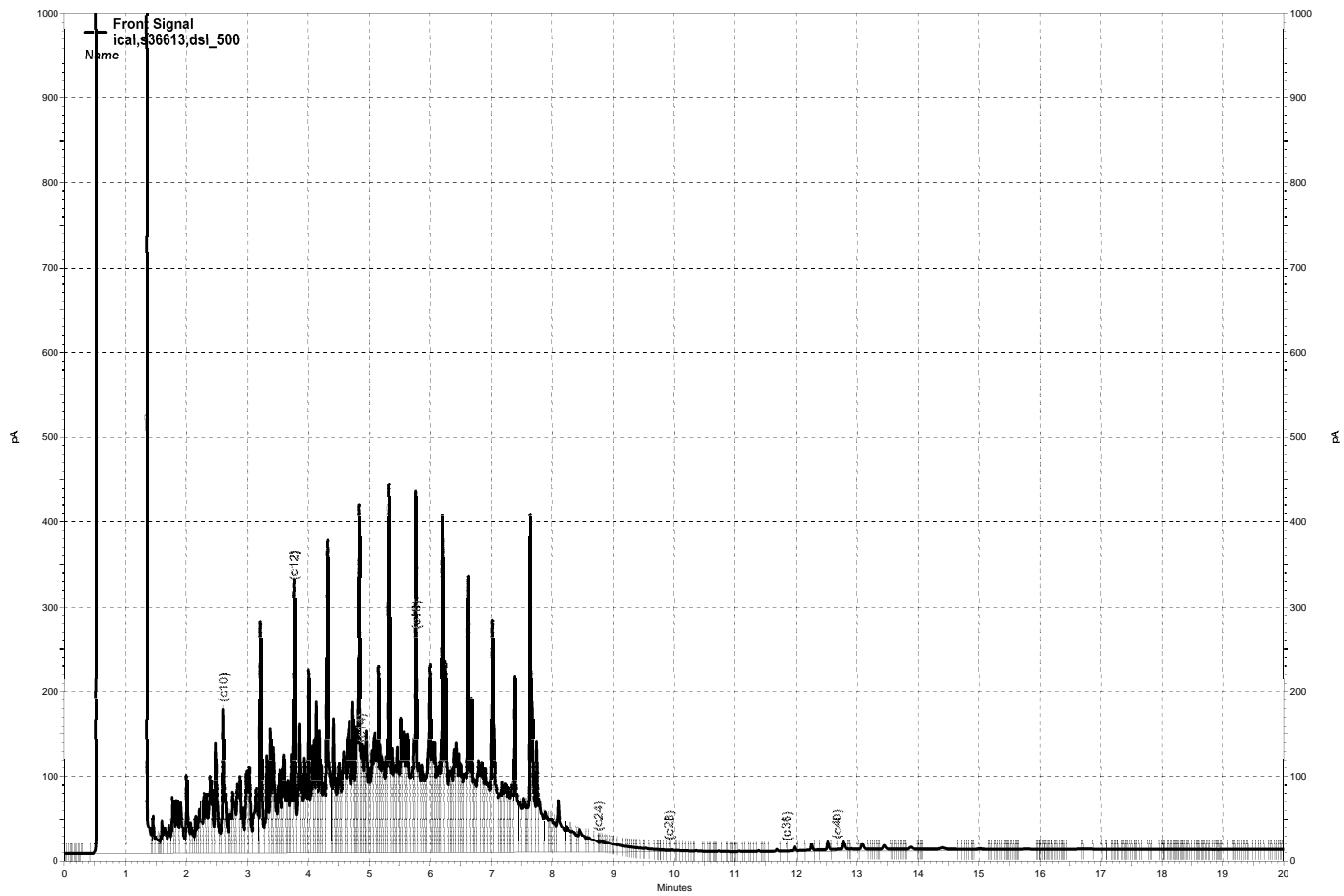
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a016.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	10.302	0.304	0



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a017.dat, Front Signal

Sample Name: ical,s36613,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a017.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 6:16:36 PM
 Analysis Date: 8/22/2018 8:48:53 AM
 Instrument: GC27 (Offline)A Vial: 17 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		150437563	0.000 CAL
DSL:10-14		99118694	500.000 CAL
DSL:10-22		248427840	500.000 CAL
DSL:10-24		254071823	500.000 CAL
DSL:10-28		256694180	500.000 CAL
DSL:12-24		217672383	500.000 CAL
DSL:12-28		220294740	500.000 CAL
DSL:14-24		165359756	500.000 CAL
DSL:16-24		114199269	500.000 CAL
MO:22-32		11456338	0.000 CAL
MO:24-36		4076093	0.000 CAL
MO:28-40		1201324	0.000 CAL
BUNKC:10-40		257773862	0.000 CAL
BUNKC:12-40		221374422	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

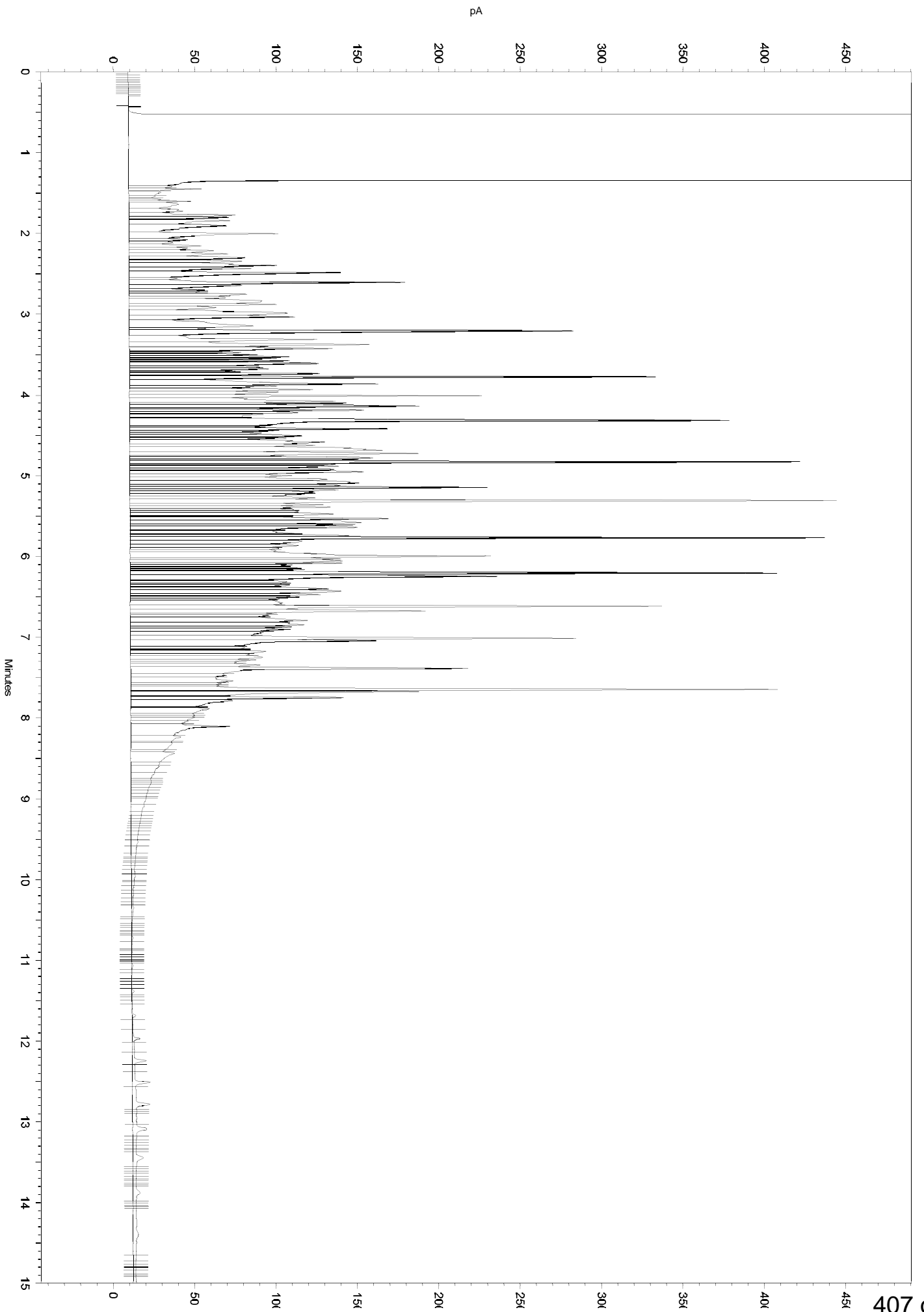
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a017.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	10.948	0.269	0



Sample Name: ical,s36613,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a017.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 6:16:36 PM
 Analysis Date: 8/22/2018 8:43:15 AM
 Instrument: GC27 (Offline)A Vial: 17 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		135620196	0.000 CAL
DSL:10-14		87639986	500.000 CAL
DSL:10-22		227570533	500.000 CAL
DSL:10-24		232221588	500.000 CAL
DSL:10-28		233784241	500.000 CAL
DSL:12-24		201820737	500.000 CAL
DSL:12-28		203383390	500.000 CAL
DSL:14-24		154383831	500.000 CAL
DSL:16-24		106568093	500.000 CAL
MO:22-32		8863968	0.000 CAL
MO:24-36		2546452	0.000 CAL
MO:28-40		907572	0.000 CAL
BUNKC:10-40		234650561	0.000 CAL
BUNKC:12-40		204249710	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

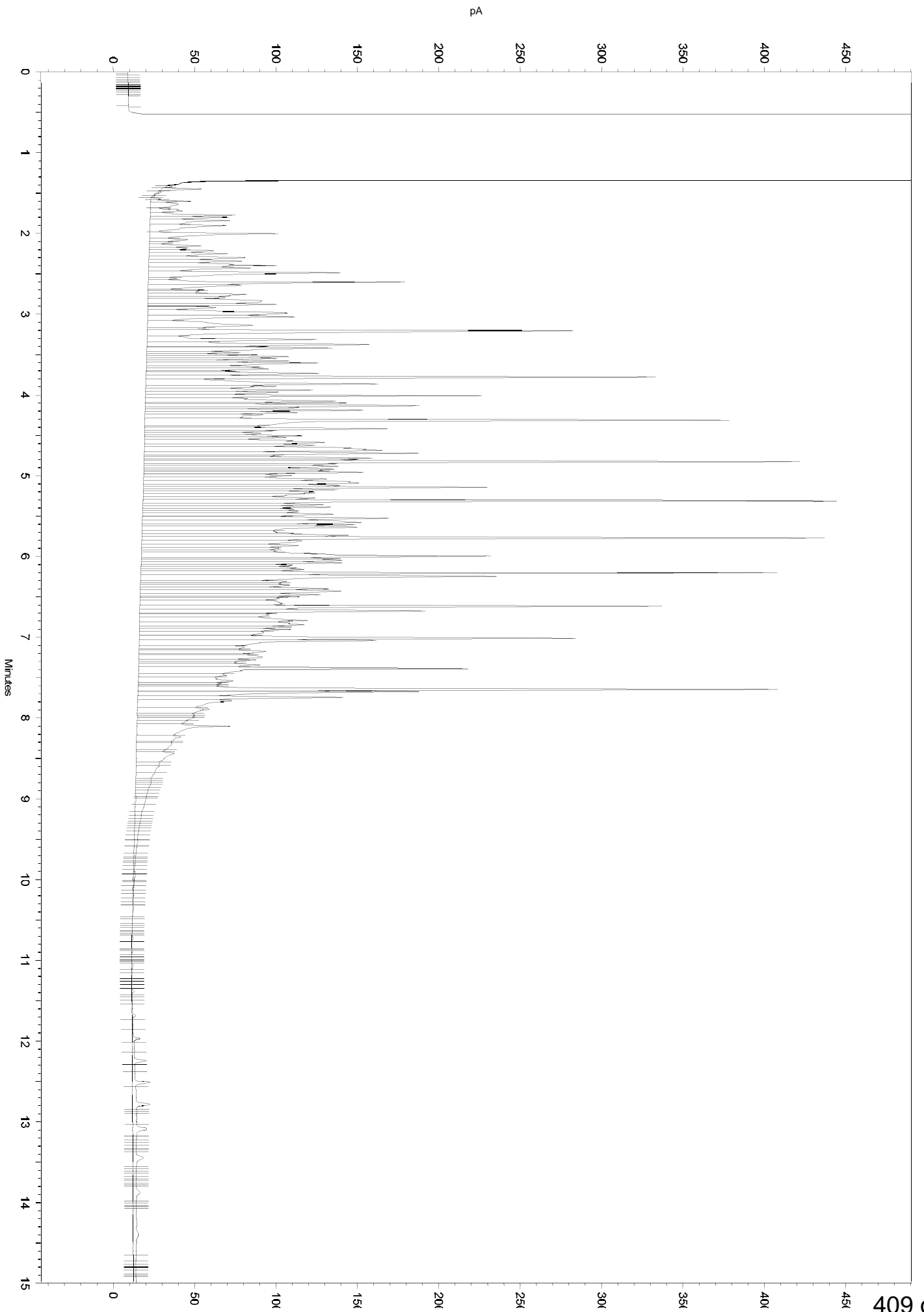
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a017.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



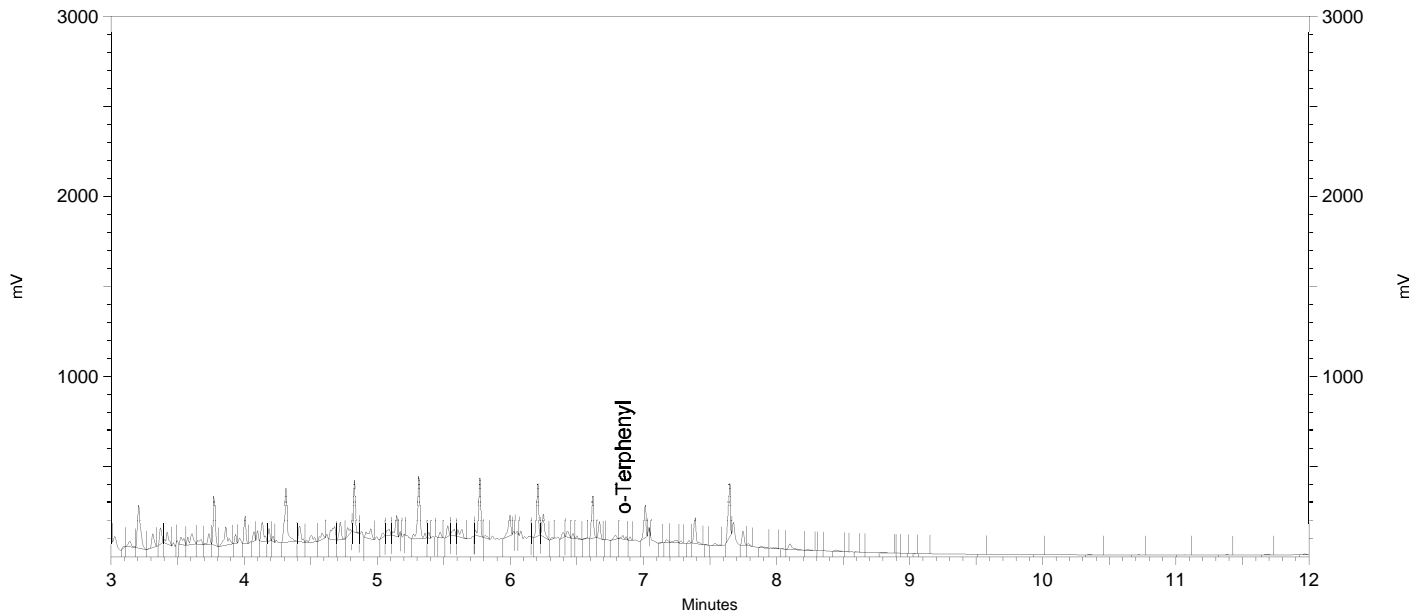
Sample Name: ical,s36611,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a017.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 6:16:36 PM
 Analysis Date: 8/22/2018 1:19:35 PM
 Instrument: GC27 (Offline)A Vial: 17 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.845	288668	0.755
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```
=====
```

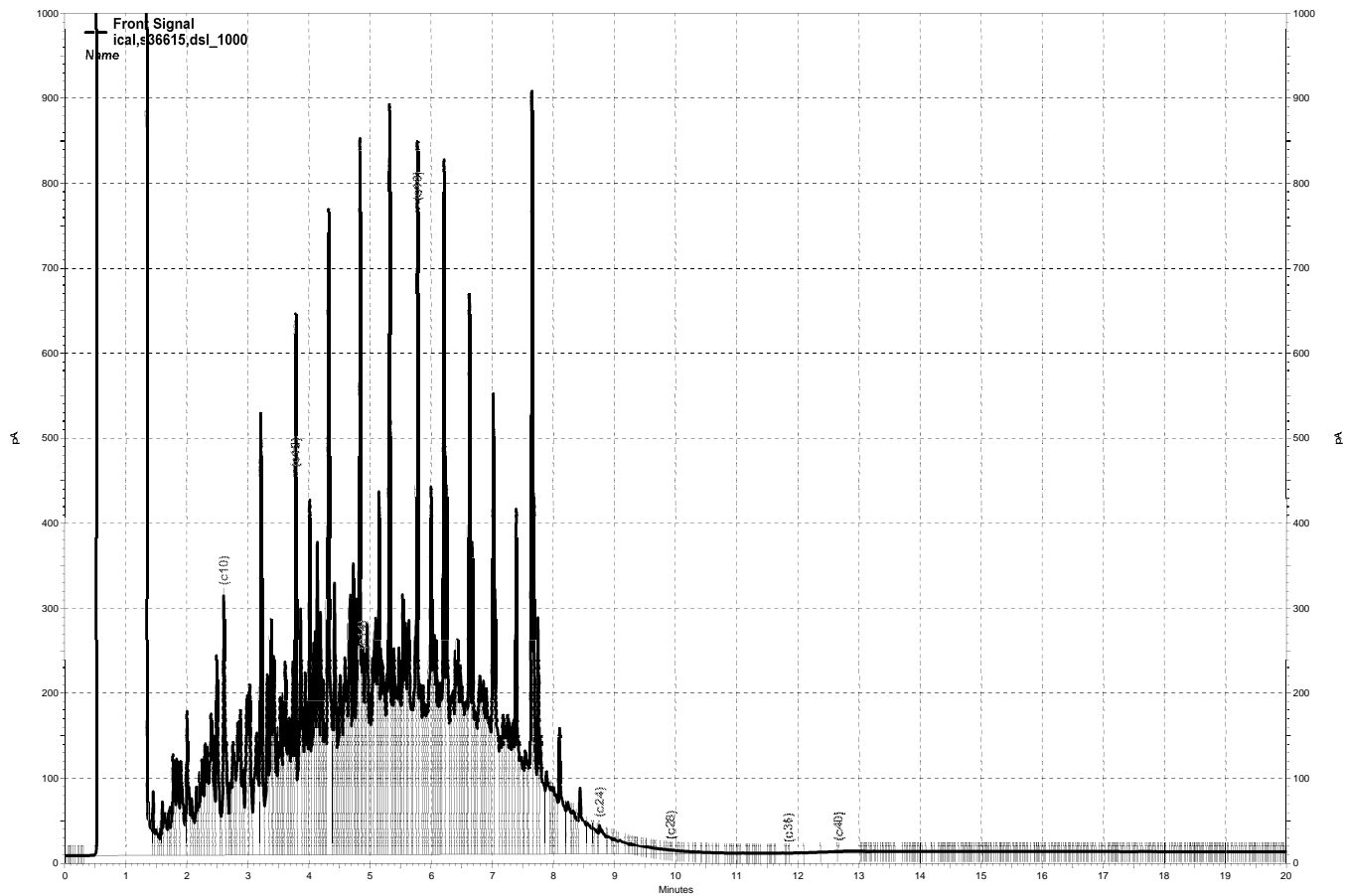
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a017.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	10.948	0.269	0



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a018.dat, Front Signal

Sample Name: ical,s36615,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a018.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 6:41:43 PM
 Analysis Date: 8/22/2018 8:48:57 AM
 Instrument: GC27 (Offline)A Vial: 18 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		291318146	0.000 CAL
DSL:10-14		191401347	1000.000 CAL
DSL:10-22		482770895	1000.000 CAL
DSL:10-24		494644409	1000.000 CAL
DSL:10-28		499778424	1000.000 CAL
DSL:12-24		424613215	1000.000 CAL
DSL:12-28		429747230	1000.000 CAL
DSL:14-24		322049755	1000.000 CAL
DSL:16-24		221953417	1000.000 CAL
MO:22-32		23104857	0.000 CAL
MO:24-36		7479409	0.000 CAL
MO:28-40		1250447	0.000 CAL
BUNKC:10-40		500737927	0.000 CAL
BUNKC:12-40		430706733	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

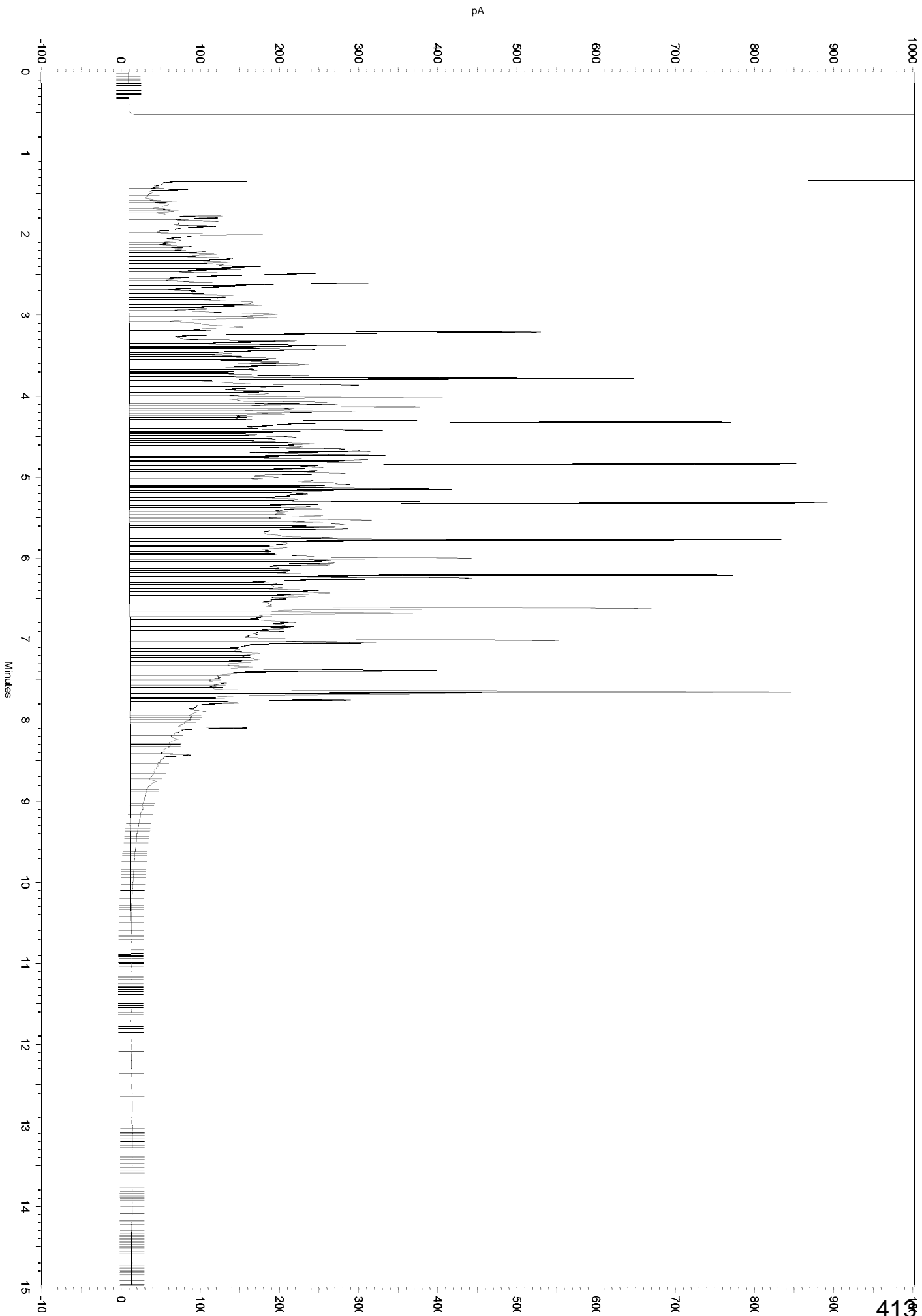
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a018.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Start      11.525  0.317   0
  
```



Sample Name: ical,s36615,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a018.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 6:41:43 PM
 Analysis Date: 8/22/2018 8:43:31 AM
 Instrument: GC27 (Offline)A Vial: 18 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		269607009	0.000 CAL
DSL:10-14		174679279	1000.000 CAL
DSL:10-22		452082132	1000.000 CAL
DSL:10-24		462359889	1000.000 CAL
DSL:10-28		465768129	1000.000 CAL
DSL:12-24		401101716	1000.000 CAL
DSL:12-28		404509956	1000.000 CAL
DSL:14-24		305667616	1000.000 CAL
DSL:16-24		210615495	1000.000 CAL
MO:22-32		18846449	0.000 CAL
MO:24-36		4941621	0.000 CAL
MO:28-40		562731	0.000 CAL
BUNKC:10-40		466213161	0.000 CAL
BUNKC:12-40		404954988	0.000 CAL

? 0 0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

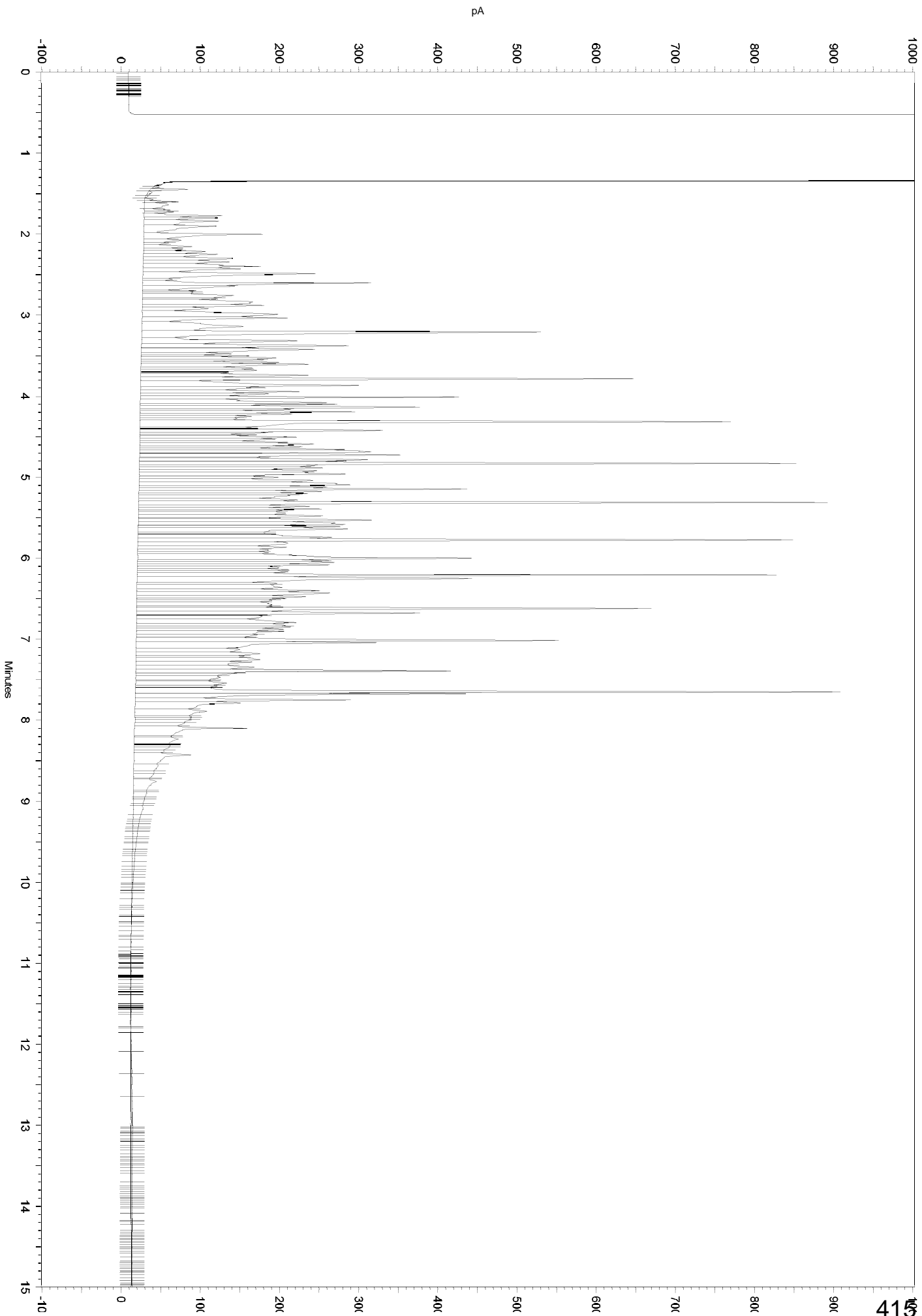
Integration Events

=====				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

=====				
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a018.dat				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None				



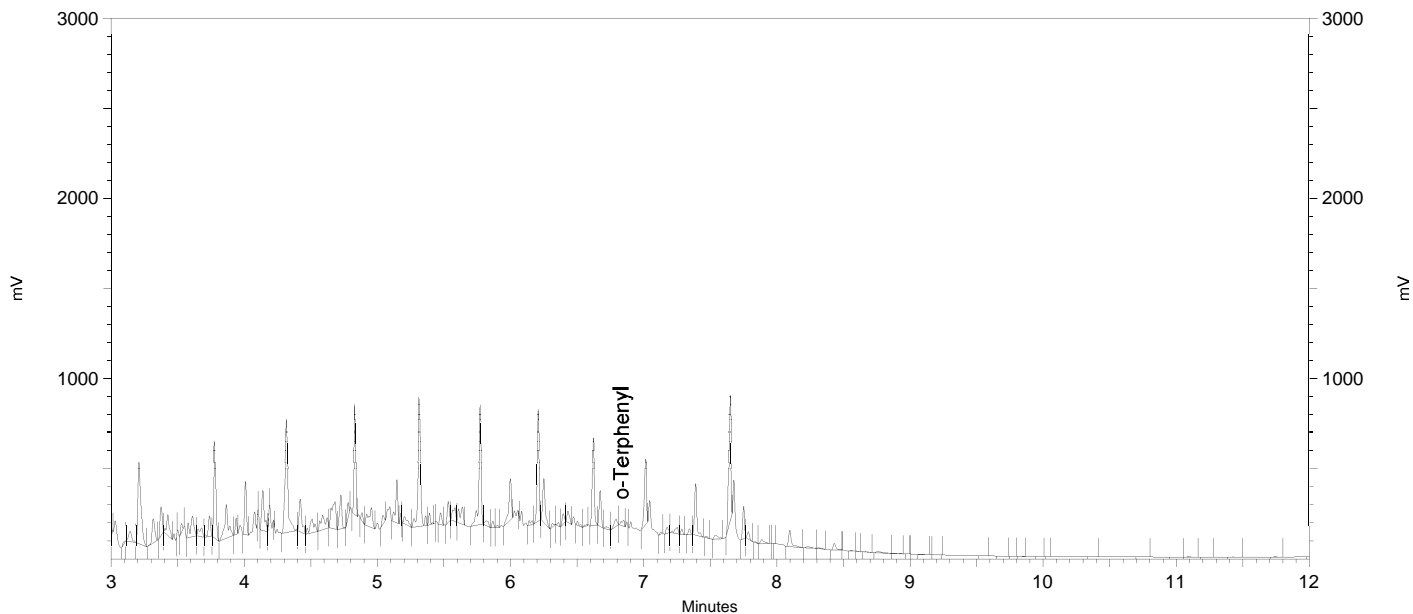
Sample Name: ical,s36613,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a018.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 6:41:43 PM
 Analysis Date: 8/22/2018 1:19:44 PM
 Instrument: GC27 (Offline)A Vial: 18 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.832	378458	1.185
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

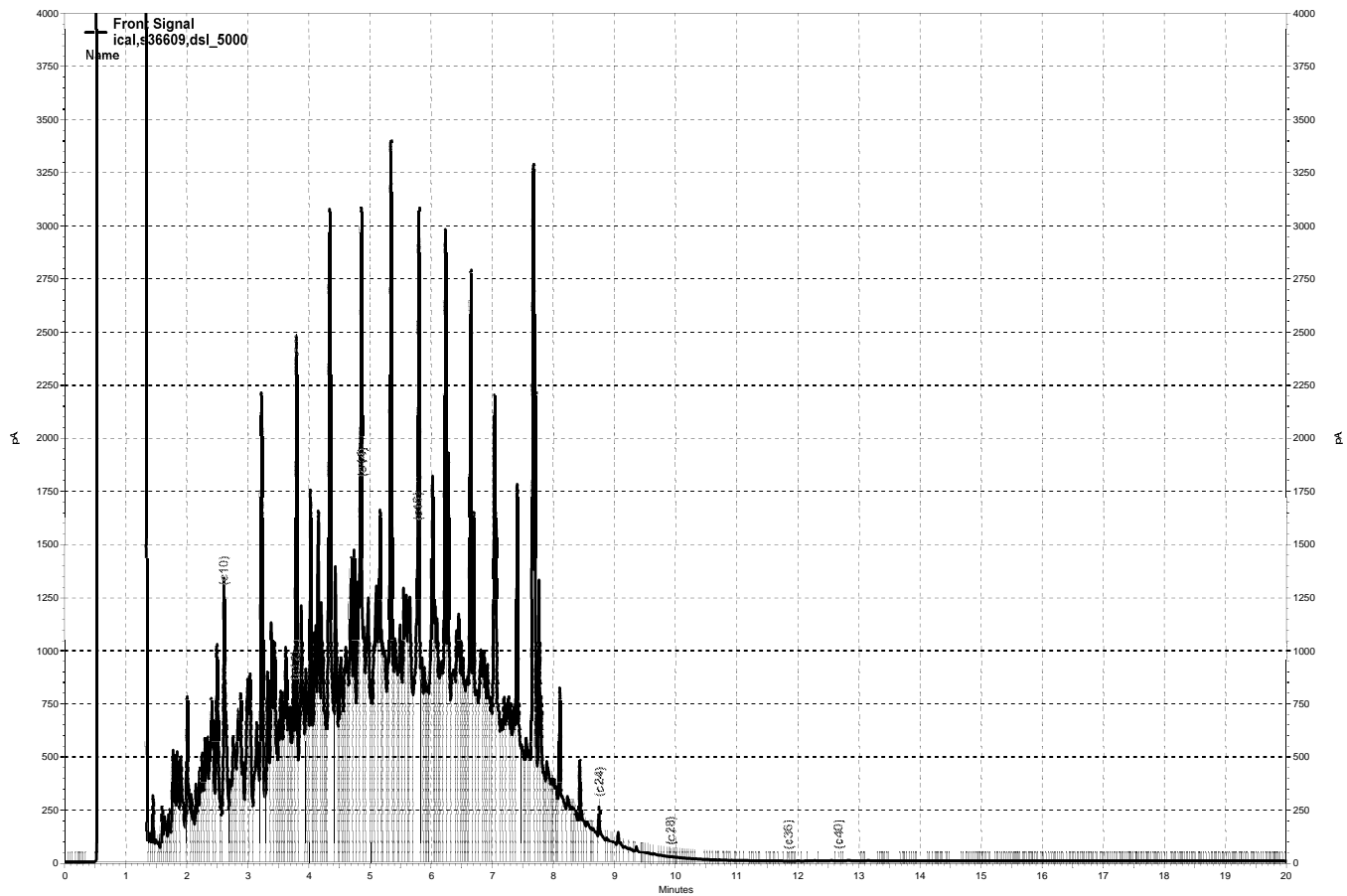
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a018.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
No Move BL Start       11.525 0.317  0
  
```



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a019.dat, Front Signal

Sample Name: ical,s36609,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a019.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 7:06:46 PM
 Analysis Date: 8/22/2018 8:49:01 AM
 Instrument: GC27 (Offline)A Vial: 19 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		1382963835	0.000 CAL
DSL:10-14		899661736	5000.000 CAL
DSL:10-22		2301476038	5000.000 CAL
DSL:10-24		2358970615	5000.000 CAL
DSL:10-28		2386065619	5000.000 CAL
DSL:12-24		2028405939	5000.000 CAL
DSL:12-28		2055500943	5000.000 CAL
DSL:14-24		1554291206	5000.000 CAL
DSL:16-24		1070371025	5000.000 CAL
MO:22-32		116955255	0.000 CAL
MO:24-36		40512940	0.000 CAL
MO:28-40		7517056	0.000 CAL
BUNKC:10-40		2392321748	0.000 CAL
BUNKC:12-40		2061757072	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

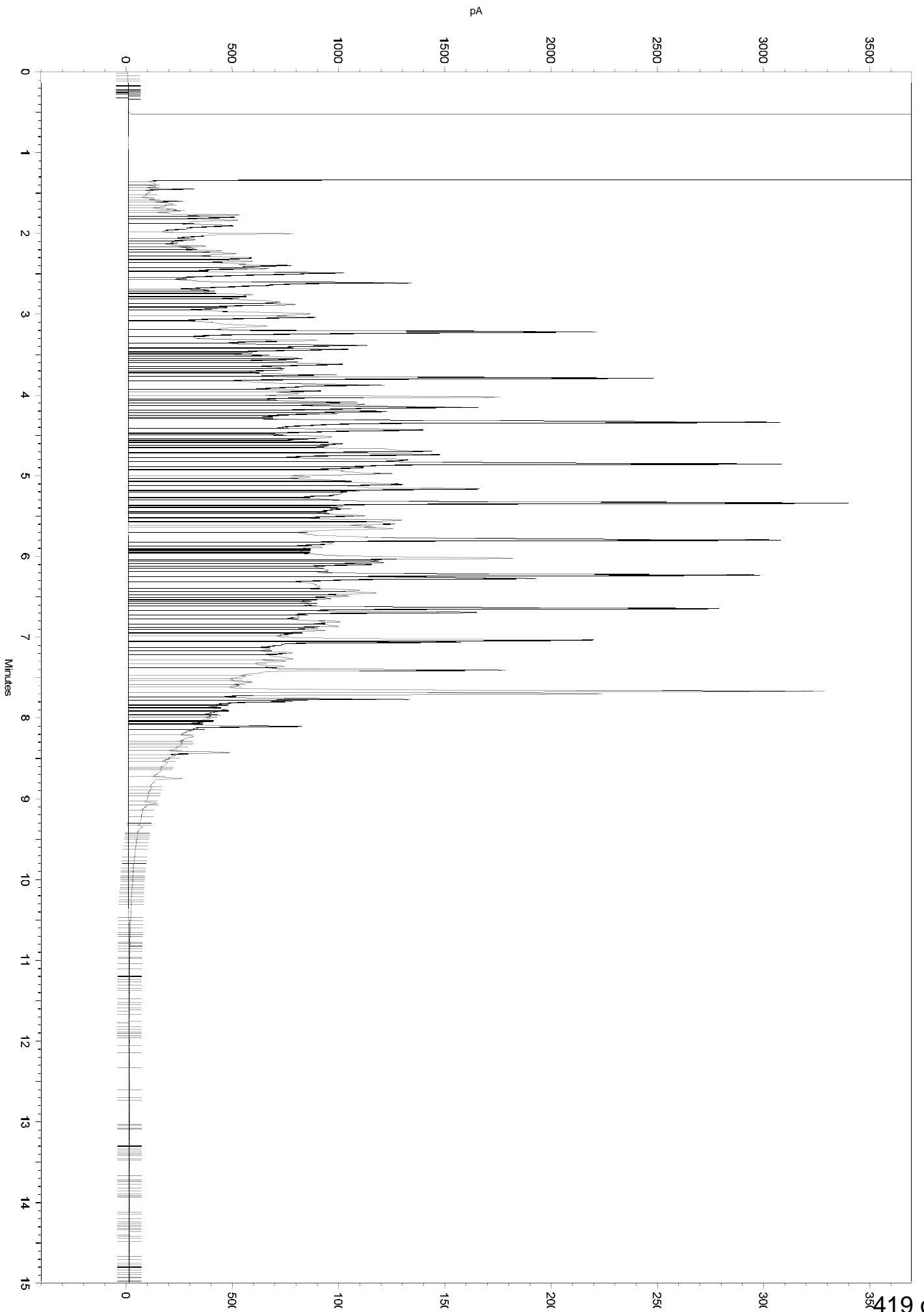
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a019.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Start      19.467  0.253   0
  
```

Sample Name: ical,s36609,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a019.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 7:06:46 PM
 Analysis Date: 8/22/2018 8:43:50 AM
 Instrument: GC27 (Offline)A Vial: 19 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		1309806515	0.000 CAL
DSL:10-14		843990810	5000.000 CAL
DSL:10-22		2196589720	5000.000 CAL
DSL:10-24		2248205536	5000.000 CAL
DSL:10-28		2267896895	5000.000 CAL
DSL:12-24		1946954979	5000.000 CAL
DSL:12-28		1966646338	5000.000 CAL
DSL:14-24		1496215061	5000.000 CAL
DSL:16-24		1029849134	5000.000 CAL
MO:22-32		98519975	0.000 CAL
MO:24-36		27776524	0.000 CAL
MO:28-40		1978170	0.000 CAL
BUNKC:10-40		2269285477	0.000 CAL
BUNKC:12-40		1968034920	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

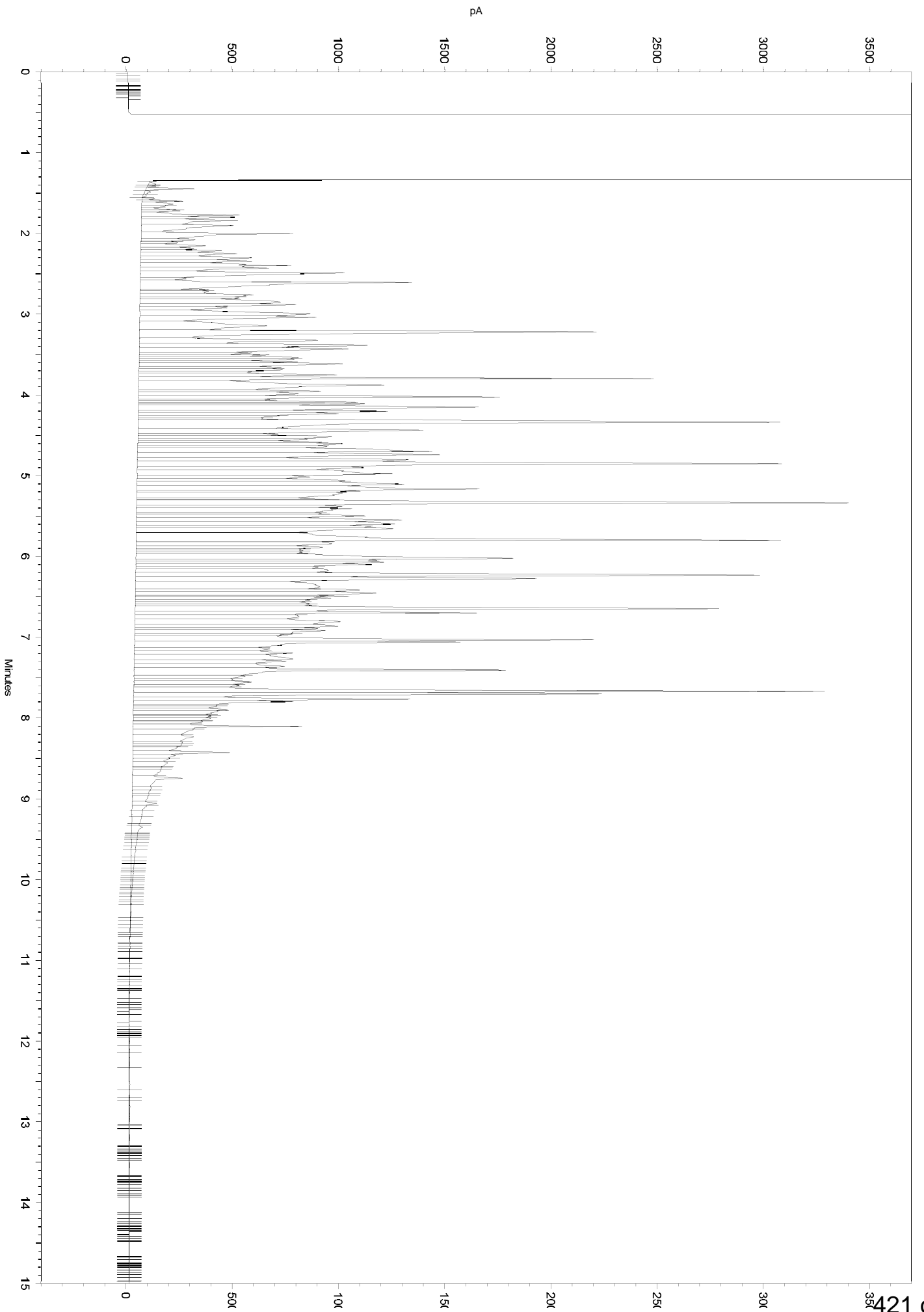
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a019.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



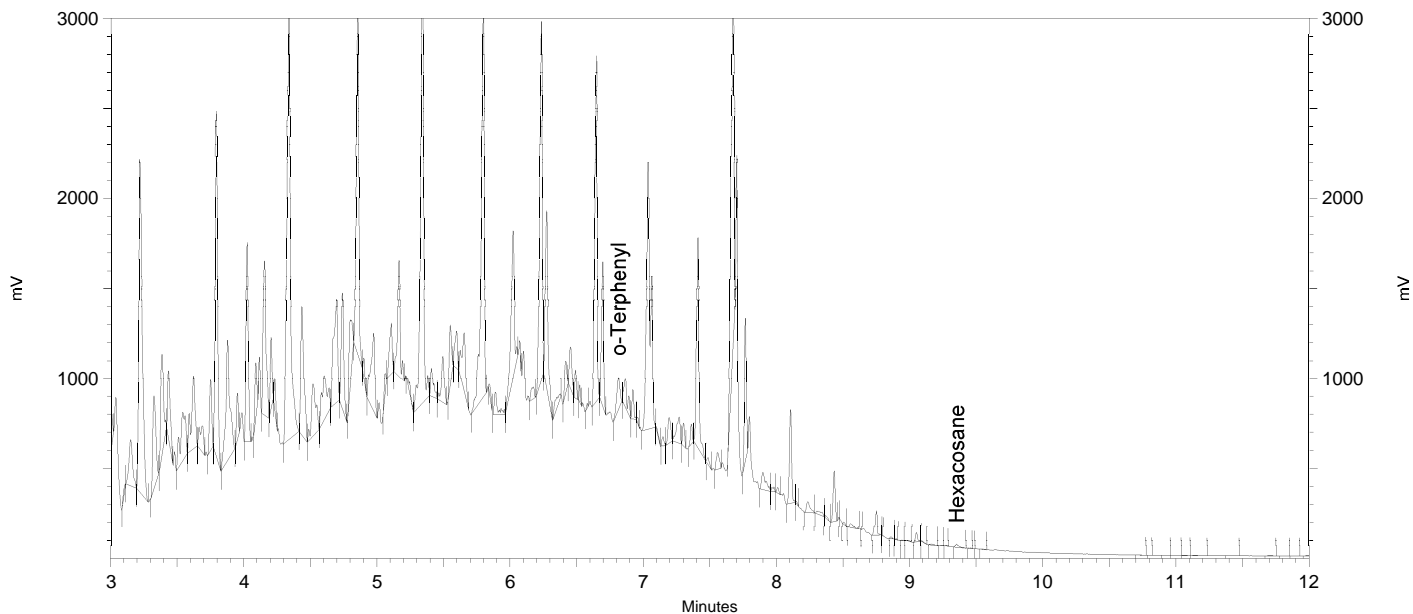
Sample Name: ical,s36615,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a019.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 7:06:46 PM
 Analysis Date: 8/22/2018 1:19:53 PM
 Instrument: GC27 (Offline)A Vial: 19 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.813	2311700	7.063
Hexacosane	9.353	267709	1.325



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events

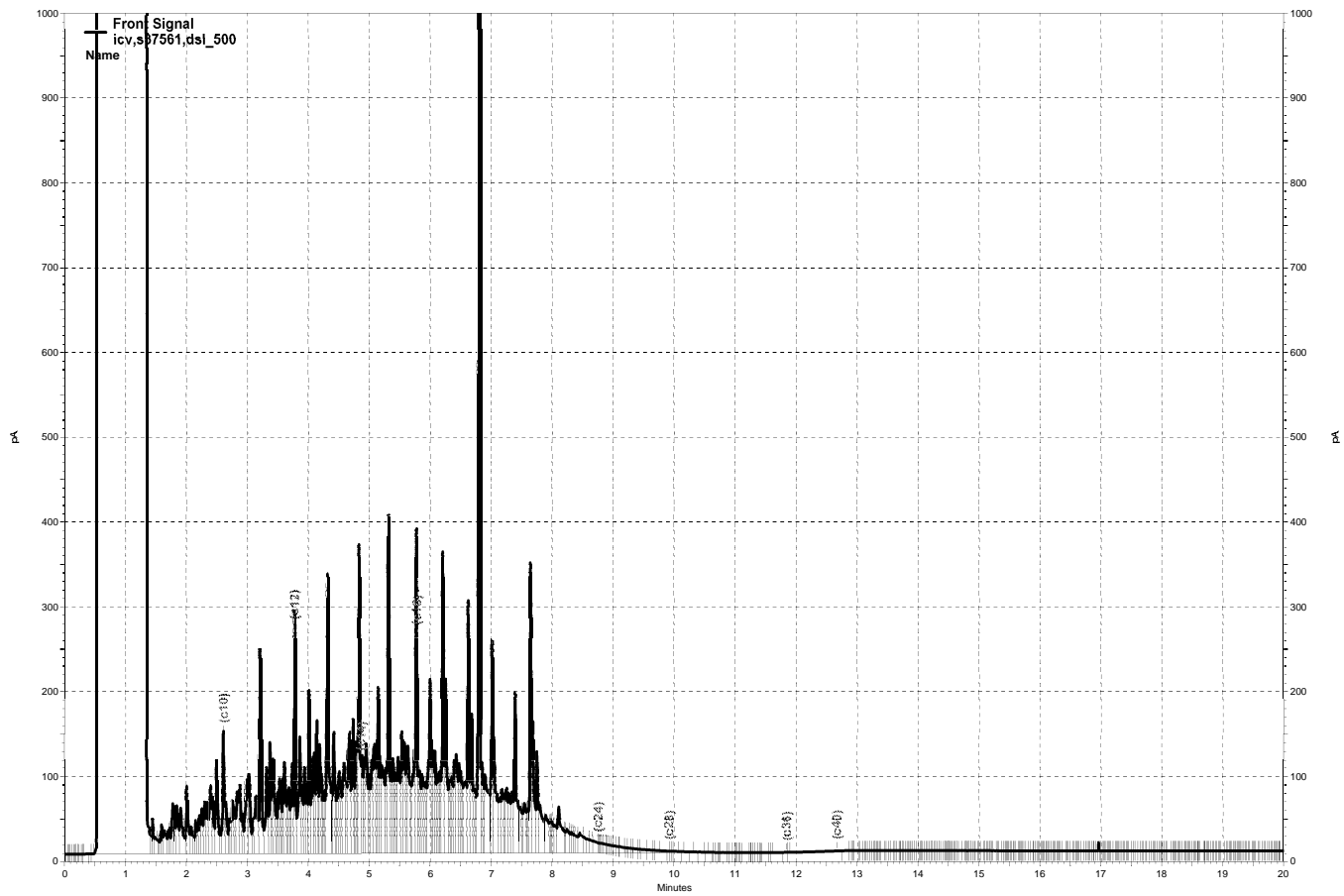
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a019.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
No Move BL Start       19.467 0.253  0
  
```



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a021.dat, Front Signal

Sample Name: icv,s37561,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a021.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 7:56:52 PM
 Analysis Date: 8/22/2018 10:31:16 AM
 Instrument: GC27 (Offline)A Vial: 21 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		134930281	284.861
DSL:10-14		88033410	495.216
DSL:10-22		250373246	552.598
DSL:10-24		255130524	548.192
DSL:10-28		257425209	545.617
DSL:12-24		222785347	568.933
DSL:12-28		225080032	565.548
DSL:14-24		175886093	580.206
DSL:16-24		129188390	618.329
MO:22-32		9810386	30.668
MO:24-36		2903060	8.974
MO:28-40		255973	1.310
BUNKC:10-40		257604314	1274.824
BUNKC:12-40		225259137	1149.877

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

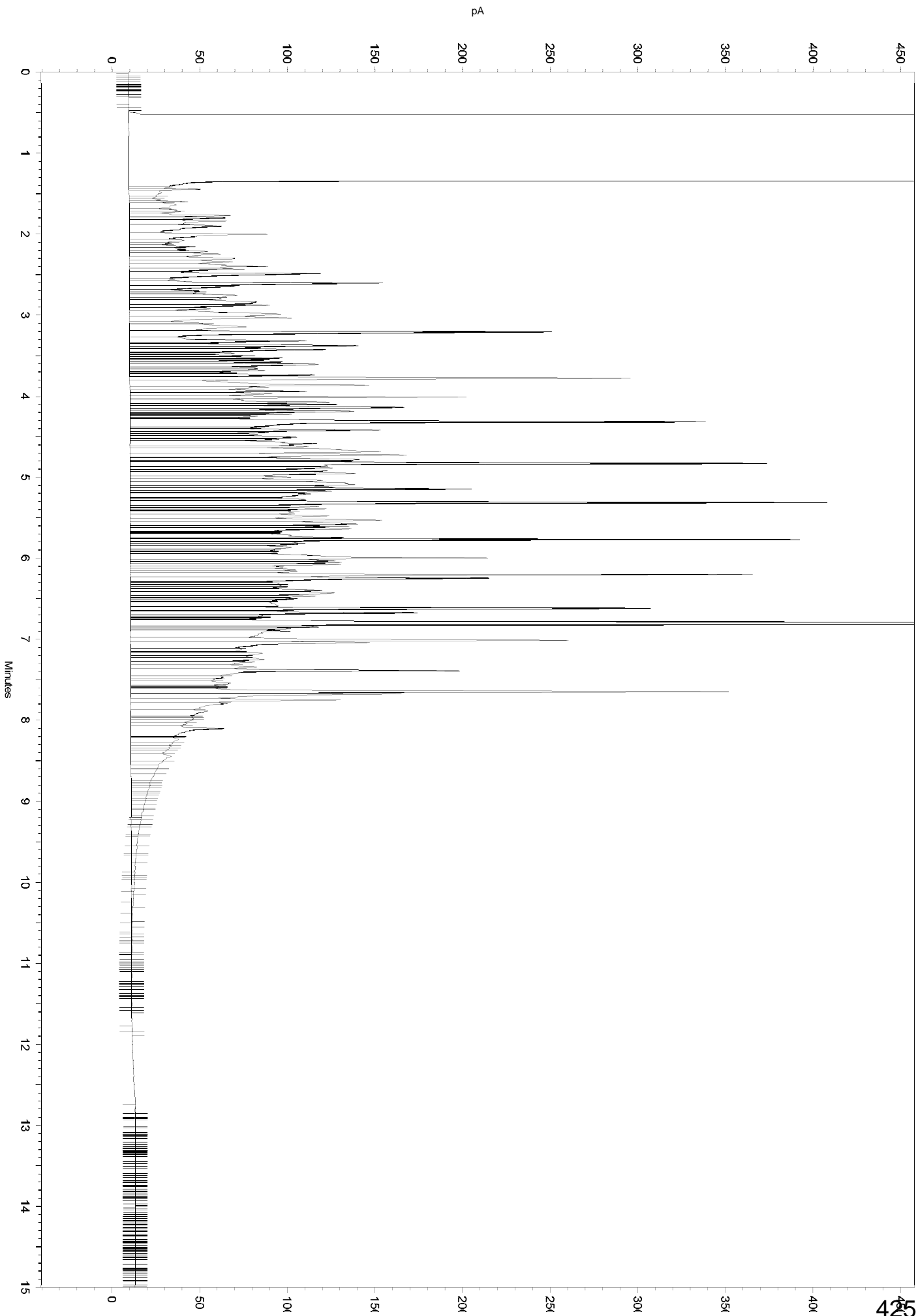
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a021.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.752	7.112	0
No	Split Peak	6.768	0	0
No	Split Peak	6.834	0	0
Yes	Move BL Start	10.673	0.391	0



Sample Name: icv,s35844,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a021.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 7:56:52 PM
 Analysis Date: 8/22/2018 10:21:46 AM
 Instrument: GC27 (Offline)A Vial: 21 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		112276047	237.034
DSL:10-14		72035607	405.223
DSL:10-22		209475936	462.334
DSL:10-24		210095403	451.426
DSL:10-28		210154624	445.426
DSL:12-24		185248494	473.074
DSL:12-28		185307715	465.614
DSL:14-24		145871269	481.194
DSL:16-24		105630453	505.575
MO:22-32		1878690	5.873
MO:24-36		101409	0.313
MO:28-40		27145	0.139
BUNKC:10-40		210180216	1040.133
BUNKC:12-40		185333307	946.068

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

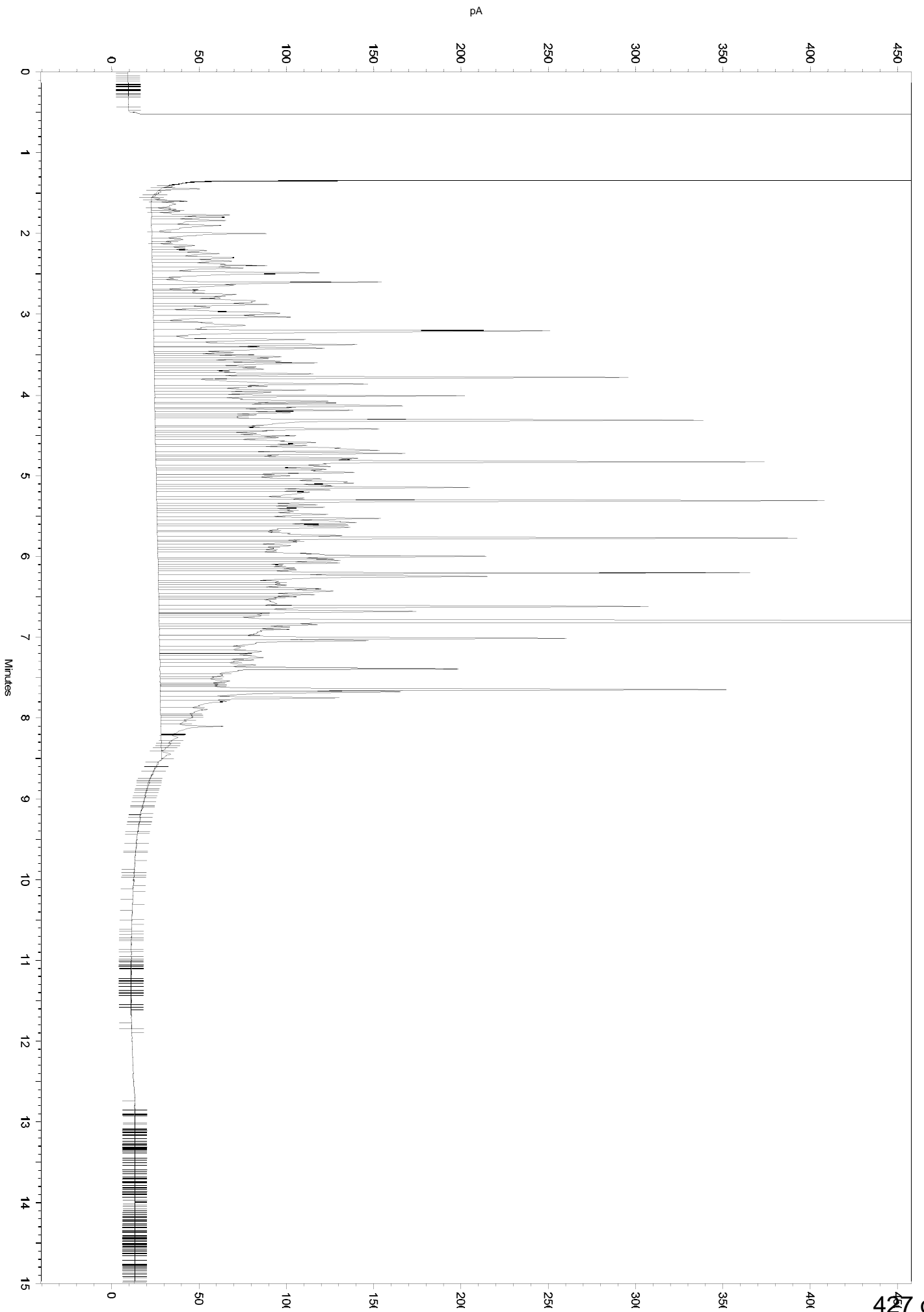
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold            0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a021.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Peak          6.752     7.112     0
No Split Peak           6.768     0         0
No Split Peak           6.834     0         0
  
```

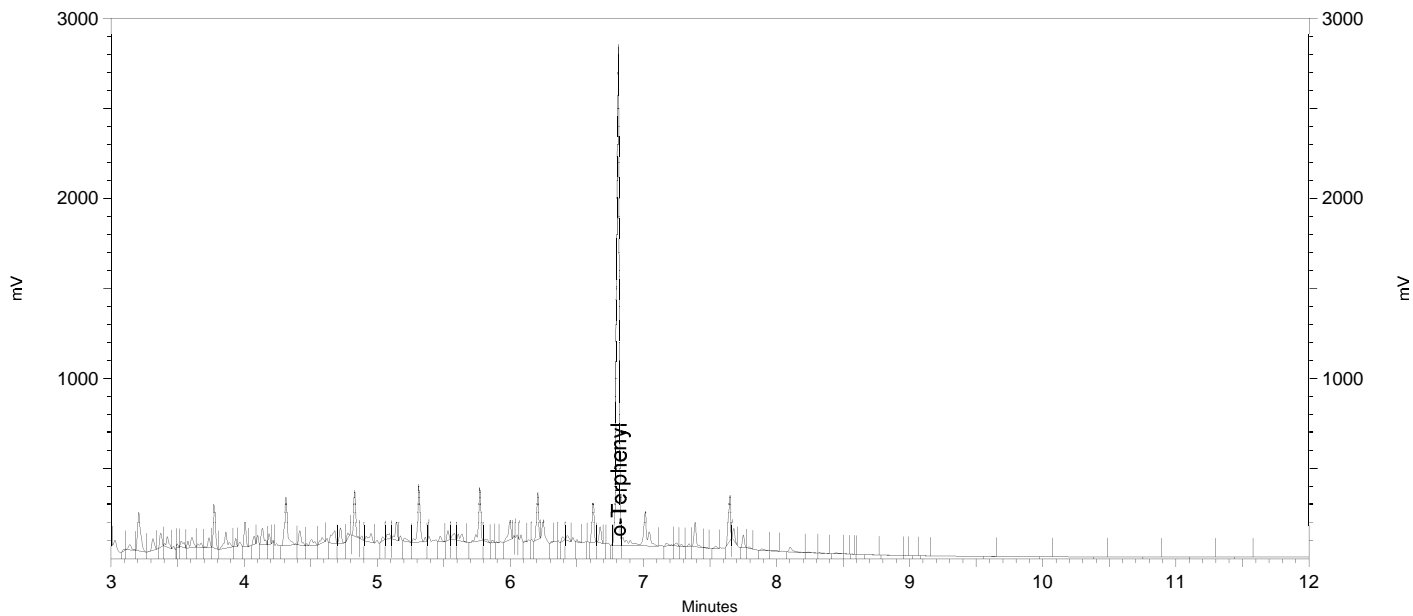



Sample Name: **ib,calib**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a021.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 7:56:52 PM
 Analysis Date: 8/22/2018 10:20:59 AM
 Instrument: GC27 (Offline)A Vial: 21 Operator: teh
 Sample Amount: 1

GC27a
TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.813	27537070	56.999
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a021.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.752  7.112   0
Yes Split Peak          6.768   0     0
Yes Split Peak          6.834   0     0
  
```

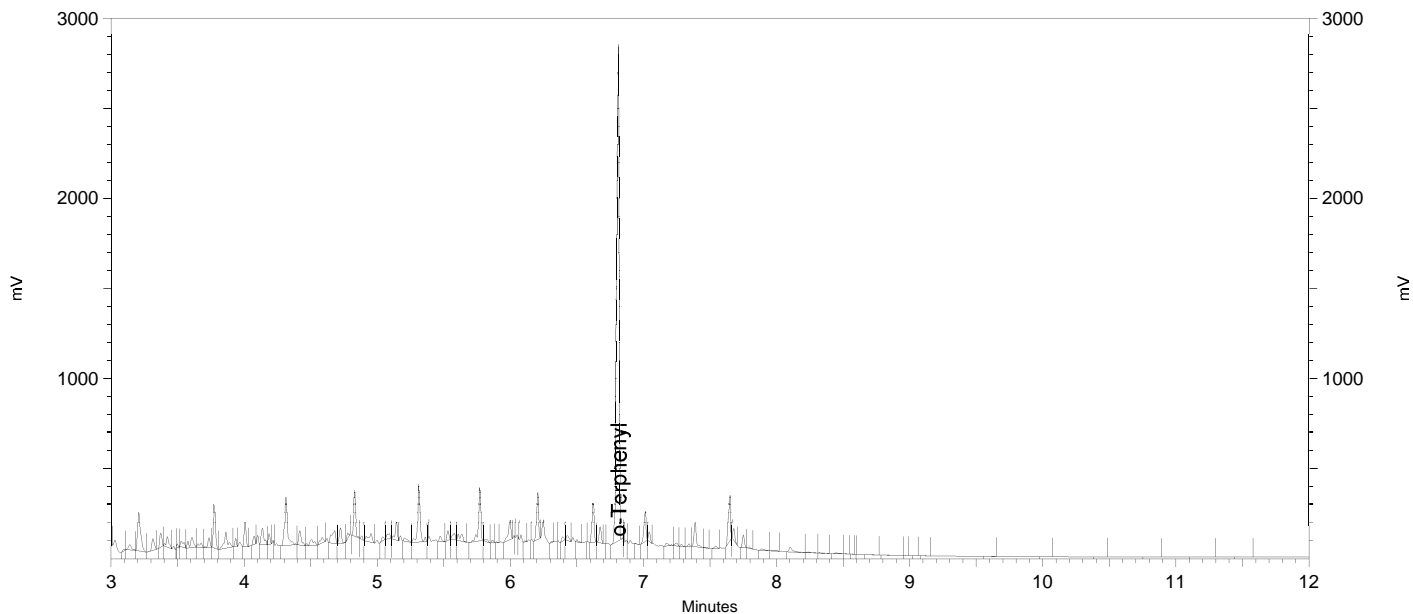

Sample Name: icv,s35844,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a021.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 7:56:52 PM
 Analysis Date: 8/22/2018 10:18:06 AM
 Instrument: GC27 (Offline)A Vial: 21 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.813	26984133	55.854
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a021.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 978335887002
 Units : mg/L

Name : MO_233
 Date : 21-AUG-2018 20:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	233a023	978335887023	MO_50	21-AUG-2018 20:46	S36946
L2	233a024	978335887024	MO_250	21-AUG-2018 21:12	S36948
L3	233a025	978335887025	MO_500	21-AUG-2018 21:37	S36949
L4	233a026	978335887026	MO_1000	21-AUG-2018 22:02	S36951
L5	233a027	978335887027	MO_2500	21-AUG-2018 22:27	S36926 (2X)
L6	233a028	978335887028	MO_5000	21-AUG-2018 22:52	S36926

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	300221	326649	328636	333767	329981	321620	AVRG		3.09E-6		323479	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-7	250.00	1	500.00	2	1000.0	3	2500.0	2	5000.0	-1

CB1 08/22/18 : Corrected automatically drawn baseline in all levels.

CB1: 08/22/18 AMP: 08/22/18 EAH: 08/22/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A
Calnum : 978335887002

Name : MO_233
Cal Date : 21-AUG-2018

ICV 978335887030 (233a030 21-AUG-2018) stds: S37711

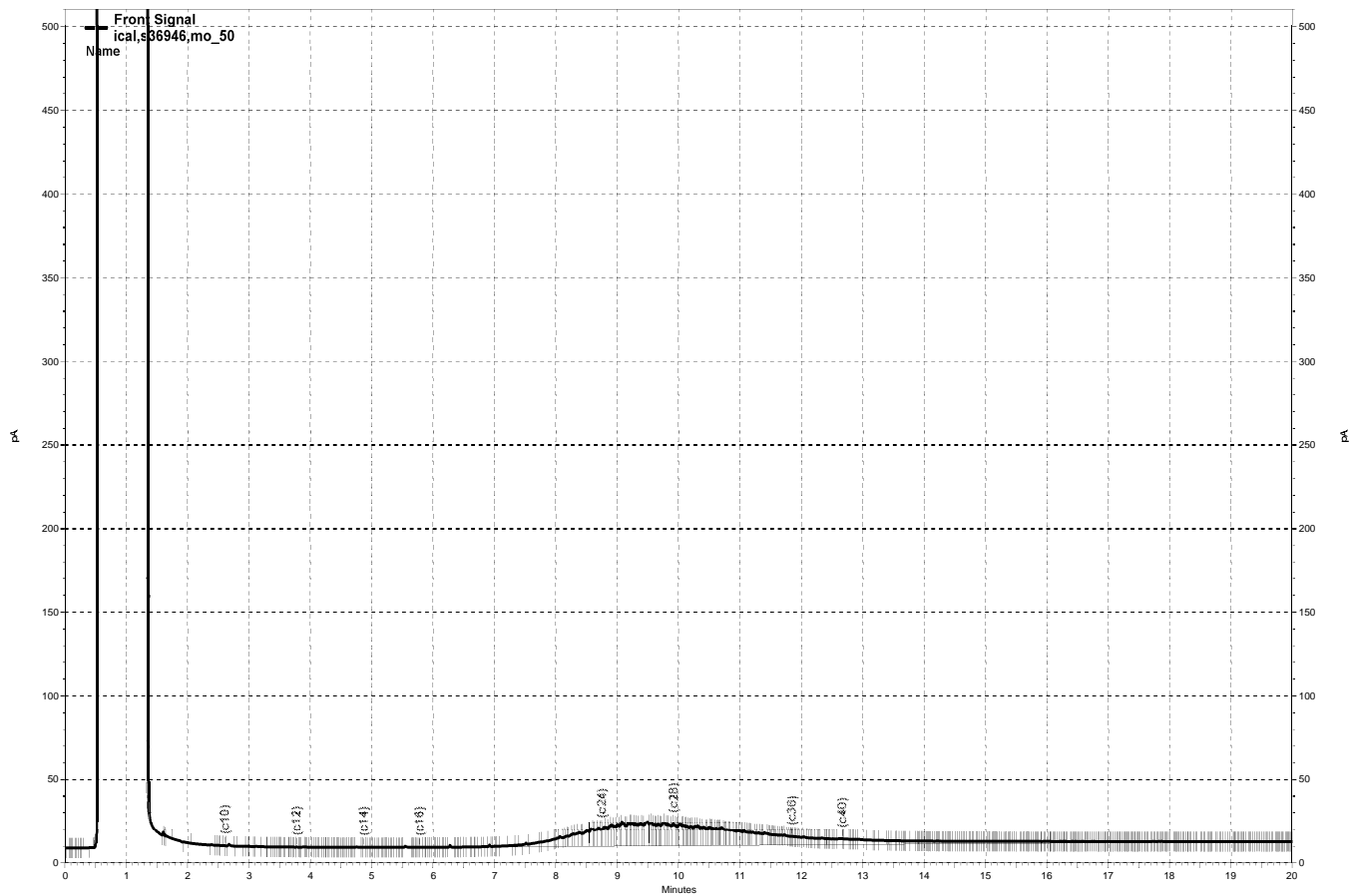
Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	490.5	mg/L	-2	15	

Analyst: CB1

Date: 08/22/18

Reviewer: AMP

Date: 08/22/18



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a023.dat, Front Signal

Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a023.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 8:46:55 PM
 Analysis Date: 8/22/2018 8:49:05 AM
 Instrument: GC27 (Offline)A Vial: 23 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		59956	0.000 CAL
DSL:10-14		42484	0.000 CAL
DSL:10-22		1281826	0.000 CAL
DSL:10-24		3946425	0.000 CAL
DSL:10-28		10626230	0.000 CAL
DSL:12-24		3919707	0.000 CAL
DSL:12-28		10599512	0.000 CAL
DSL:14-24		3905708	0.000 CAL
DSL:16-24		3887513	0.000 CAL
MO:22-32		14659675	50.000 CAL
MO:24-36		15011026	50.000 CAL
MO:28-40		9503665	50.000 CAL
BUNKC:10-40		19536687	0.000 CAL
BUNKC:12-40		19509969	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

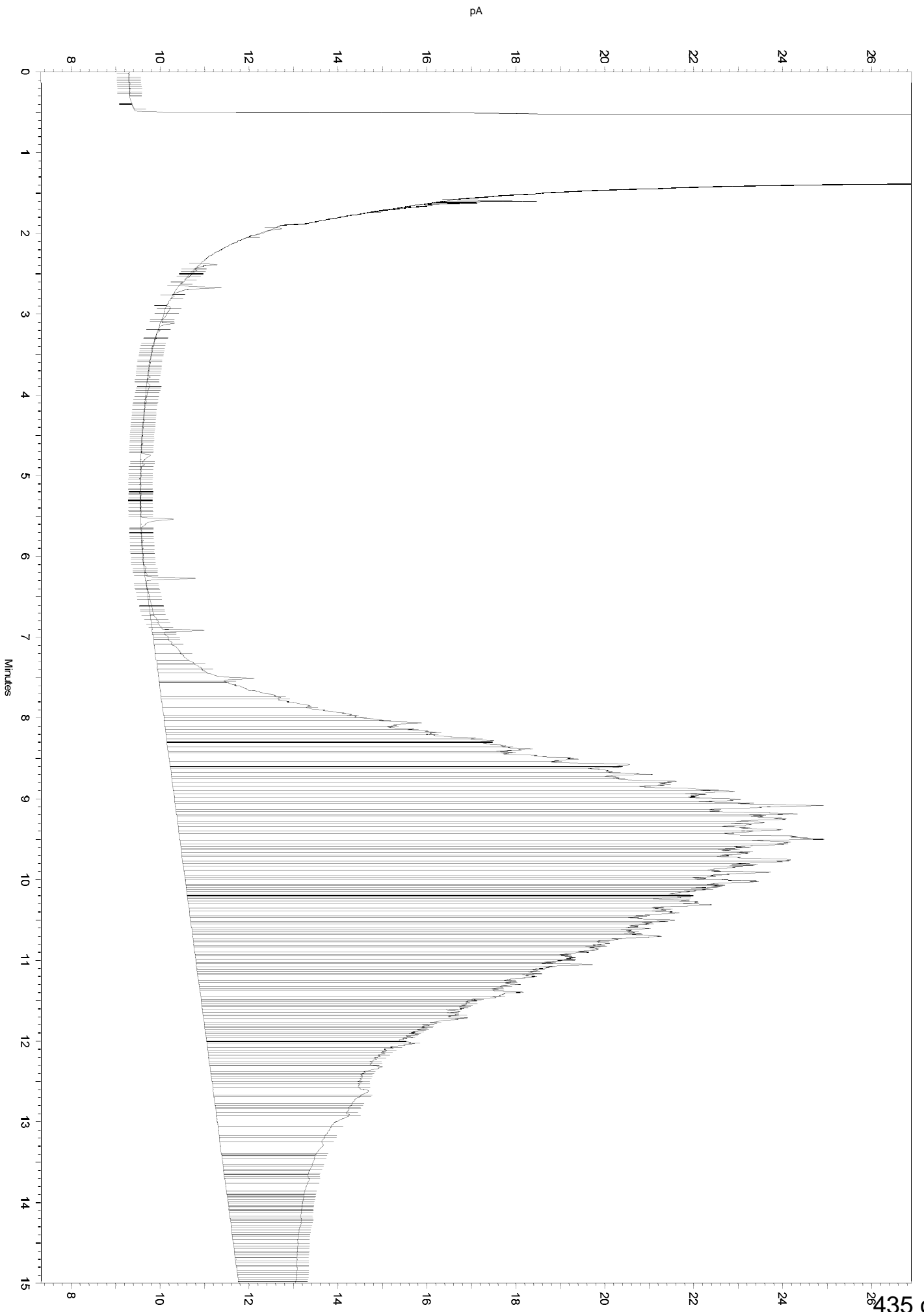
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a023.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        6.39  19.877  0
  
```

Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a023.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 8:46:55 PM
 Analysis Date: 8/22/2018 8:44:33 AM
 Instrument: GC27 (Offline)A Vial: 23 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		59956	0.000 CAL
DSL:10-14		42484	0.000 CAL
DSL:10-22		377043	0.000 CAL
DSL:10-24		1551421	0.000 CAL
DSL:10-28		3957876	0.000 CAL
DSL:12-24		1524703	0.000 CAL
DSL:12-28		3931158	0.000 CAL
DSL:14-24		1510704	0.000 CAL
DSL:16-24		1492509	0.000 CAL
MO:22-32		4178020	50.000 CAL
MO:24-36		3362161	50.000 CAL
MO:28-40		738492	50.000 CAL
BUNKC:10-40		4591988	0.000 CAL
BUNKC:12-40		4565270	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

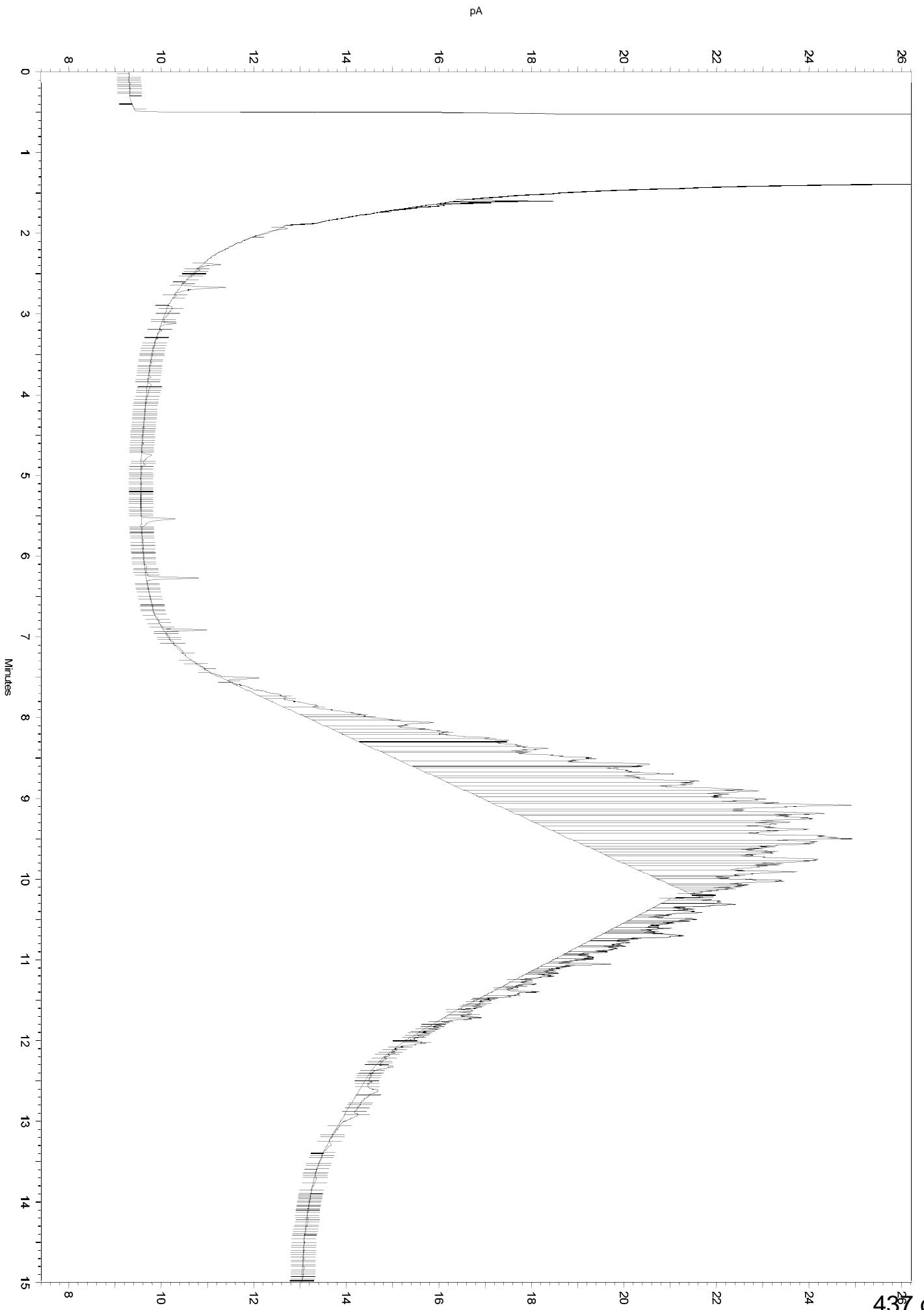
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a023.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

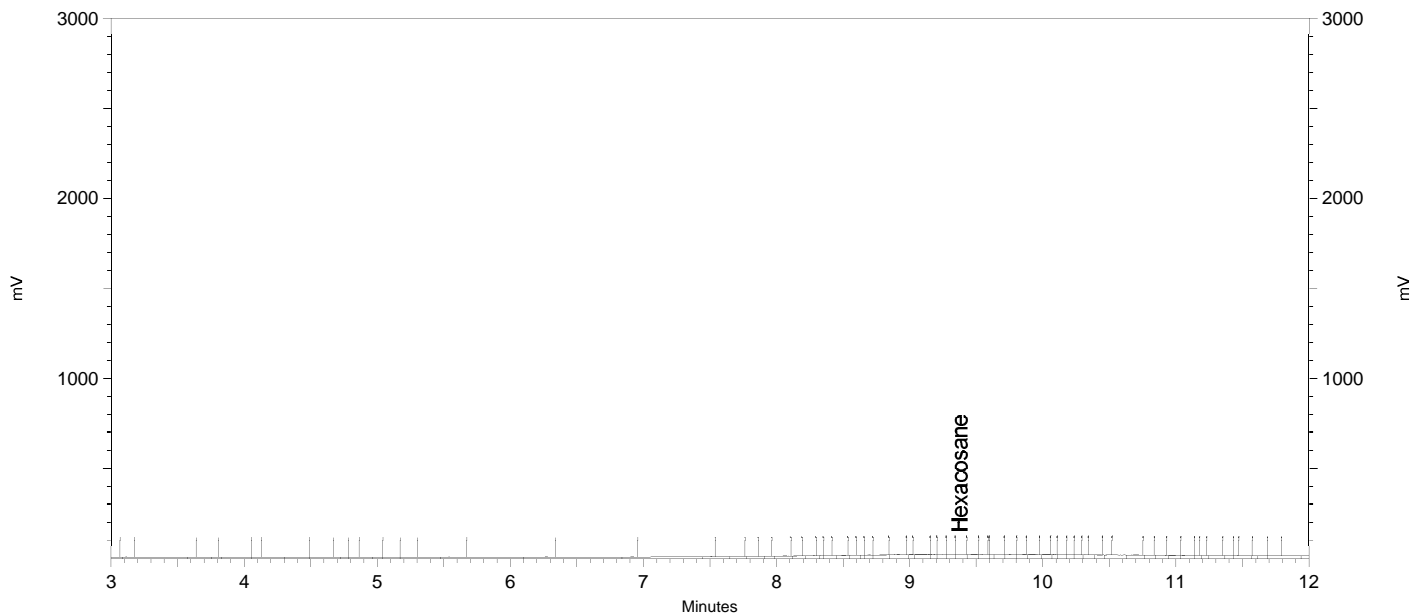


Sample Name: **ib,calib**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a023.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 8:46:55 PM
 Analysis Date: 8/22/2018 1:20:11 PM
 Instrument: GC27 (Offline)A Vial: 23 Operator: teh
 Sample Amount: 1

GC27a
TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	9.377	25932	0.128



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

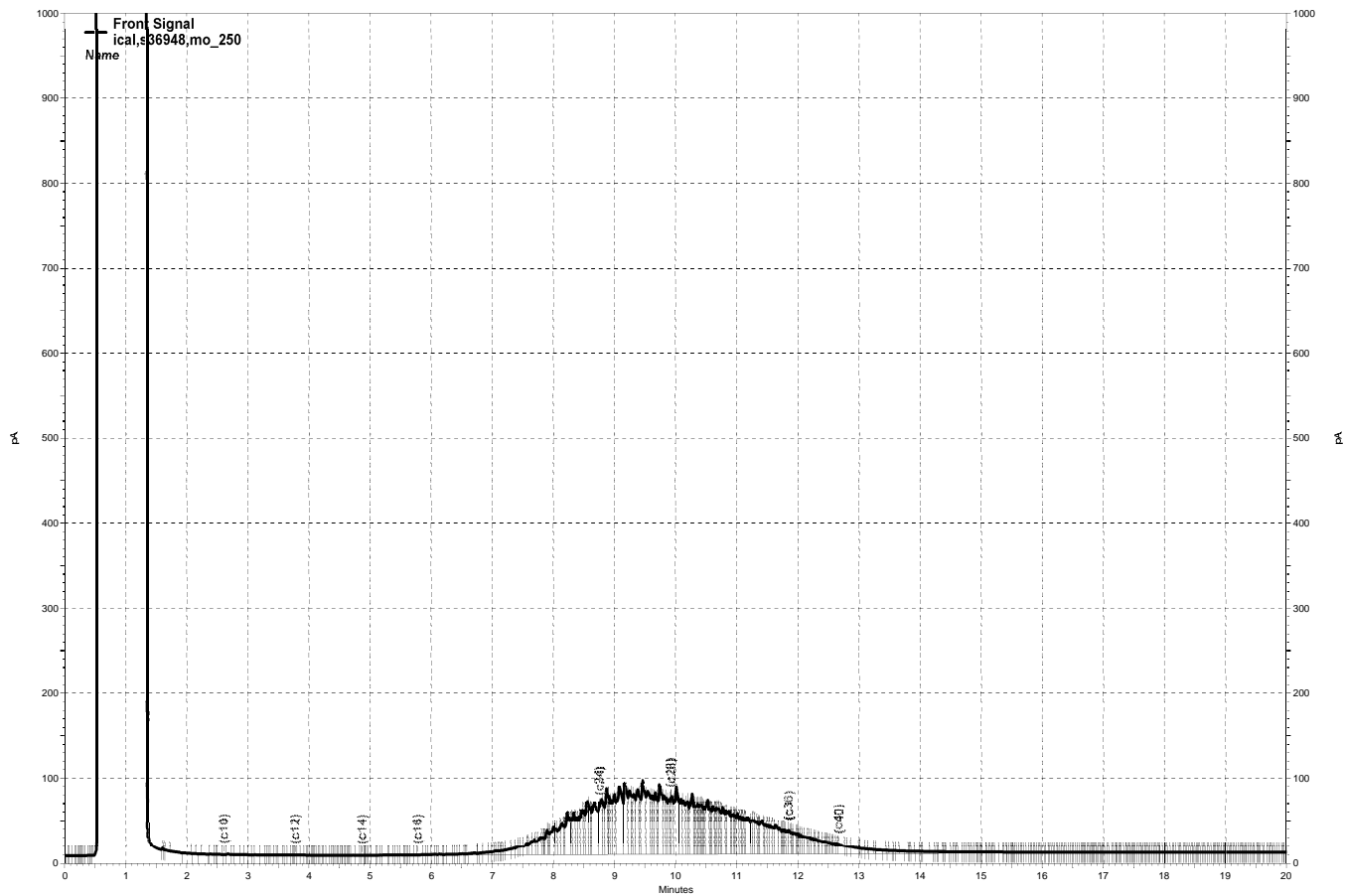
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a023.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
No Move BL Stop        6.39  19.877  0
  
```



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a024.dat, Front Signal

Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a024.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 9:12:00 PM
 Analysis Date: 8/22/2018 8:49:09 AM
 Instrument: GC27 (Offline)A Vial: 24 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		96120	0.000 CAL
DSL:10-14		46563	0.000 CAL
DSL:10-22		8809903	0.000 CAL
DSL:10-24		24034360	0.000 CAL
DSL:10-28		59455017	0.000 CAL
DSL:12-24		24002007	0.000 CAL
DSL:12-28		59422664	0.000 CAL
DSL:14-24		23988427	0.000 CAL
DSL:16-24		23952291	0.000 CAL
MO:22-32		79865343	250.000 CAL
MO:24-36		81662190	250.000 CAL
MO:28-40		50698725	250.000 CAL
BUNKC:10-40		106364756	0.000 CAL
BUNKC:12-40		106332403	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

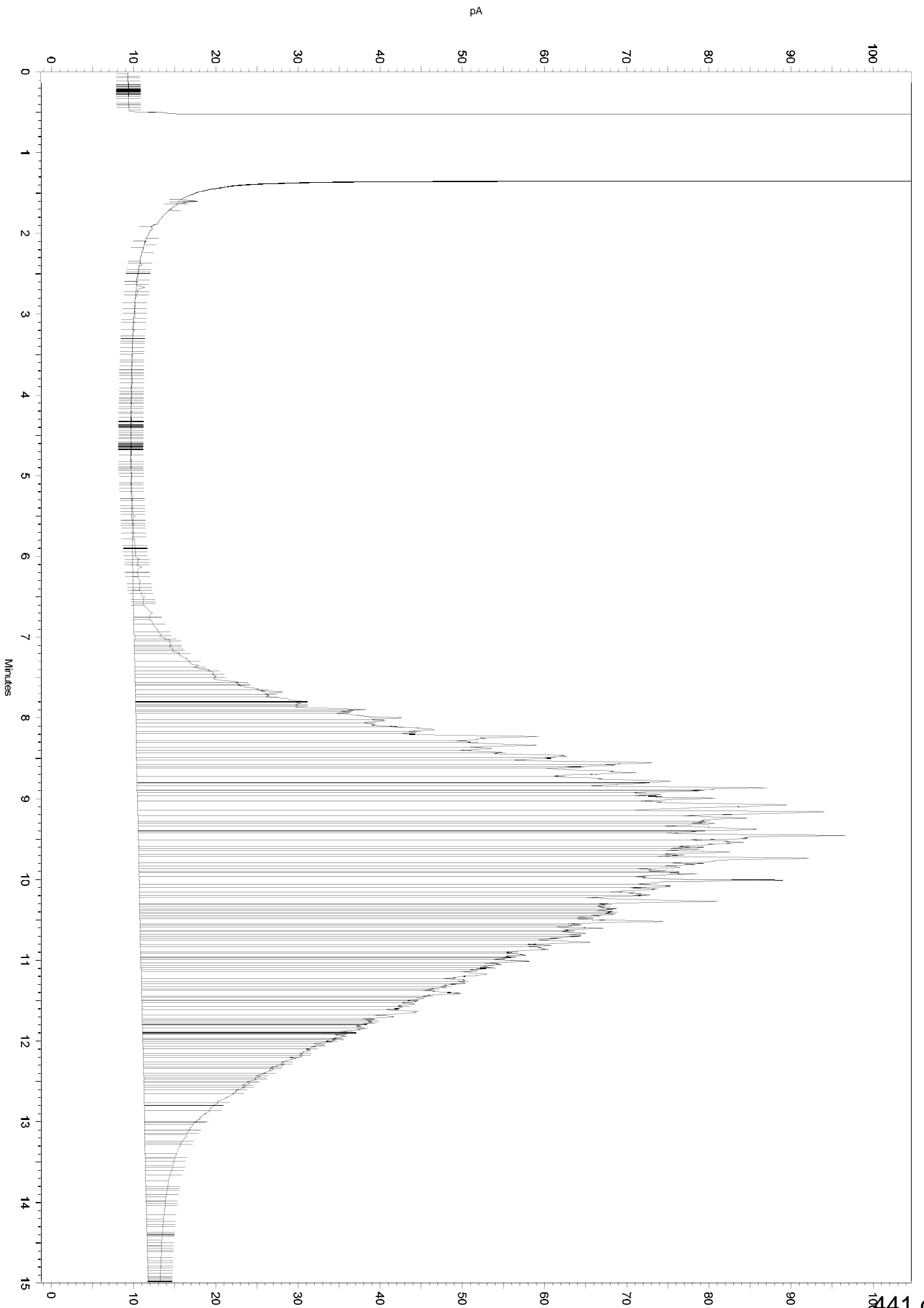
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a024.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        5.192  19.936  0
  
```



Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a024.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 9:12:00 PM
 Analysis Date: 8/22/2018 8:44:54 AM
 Instrument: GC27 (Offline)A Vial: 24 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		60455	0.000 CAL
DSL:10-14		46563	0.000 CAL
DSL:10-22		4366465	0.000 CAL
DSL:10-24		15396624	0.000 CAL
DSL:10-28		40572887	0.000 CAL
DSL:12-24		15364271	0.000 CAL
DSL:12-28		40540534	0.000 CAL
DSL:14-24		15350691	0.000 CAL
DSL:16-24		15337934	0.000 CAL
MO:22-32		51201738	250.000 CAL
MO:24-36		44438380	250.000 CAL
MO:28-40		17823841	250.000 CAL
BUNKC:10-40		55982619	0.000 CAL
BUNKC:12-40		55950266	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

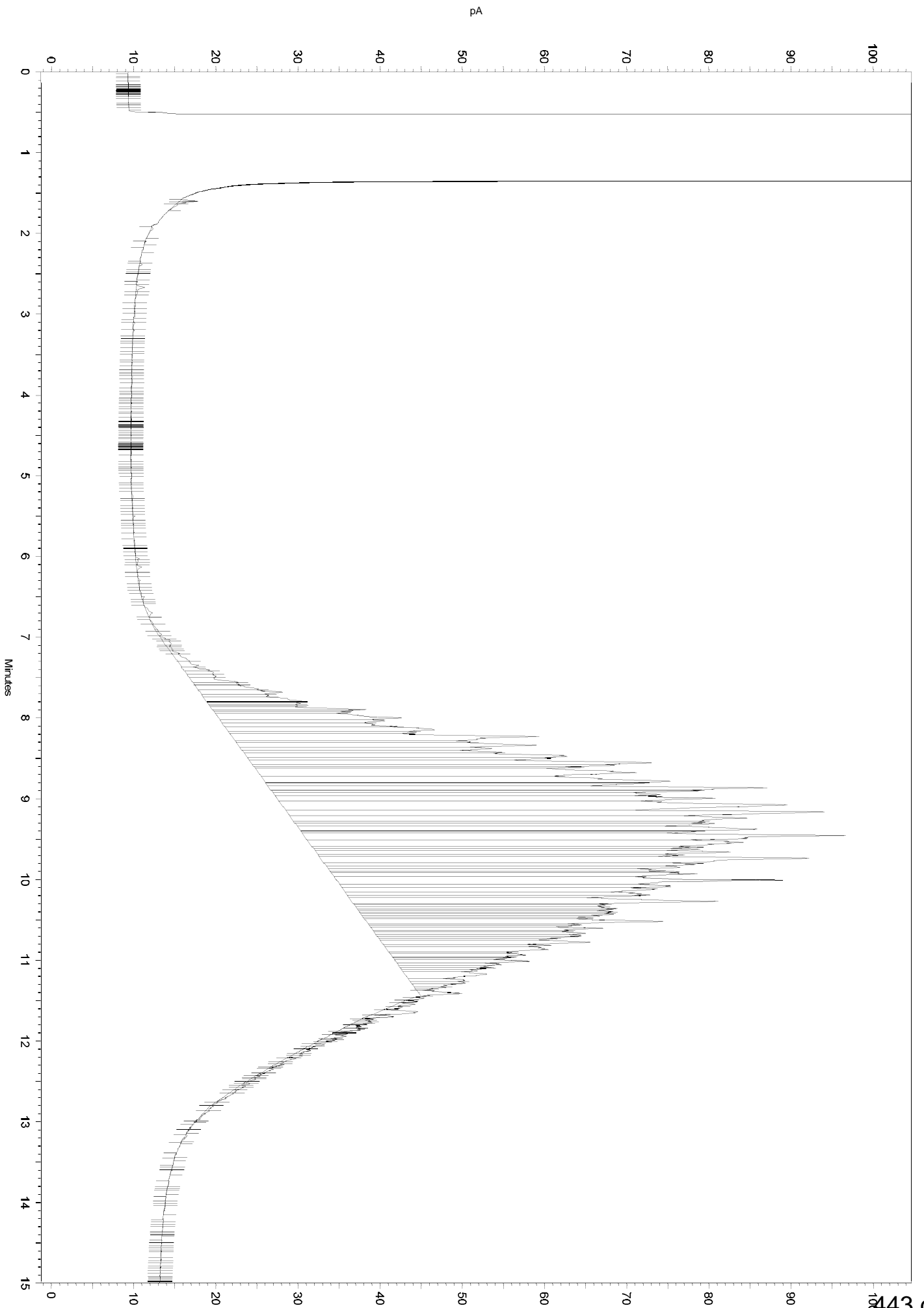
Integration Events

=====				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

=====				
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a024.dat				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

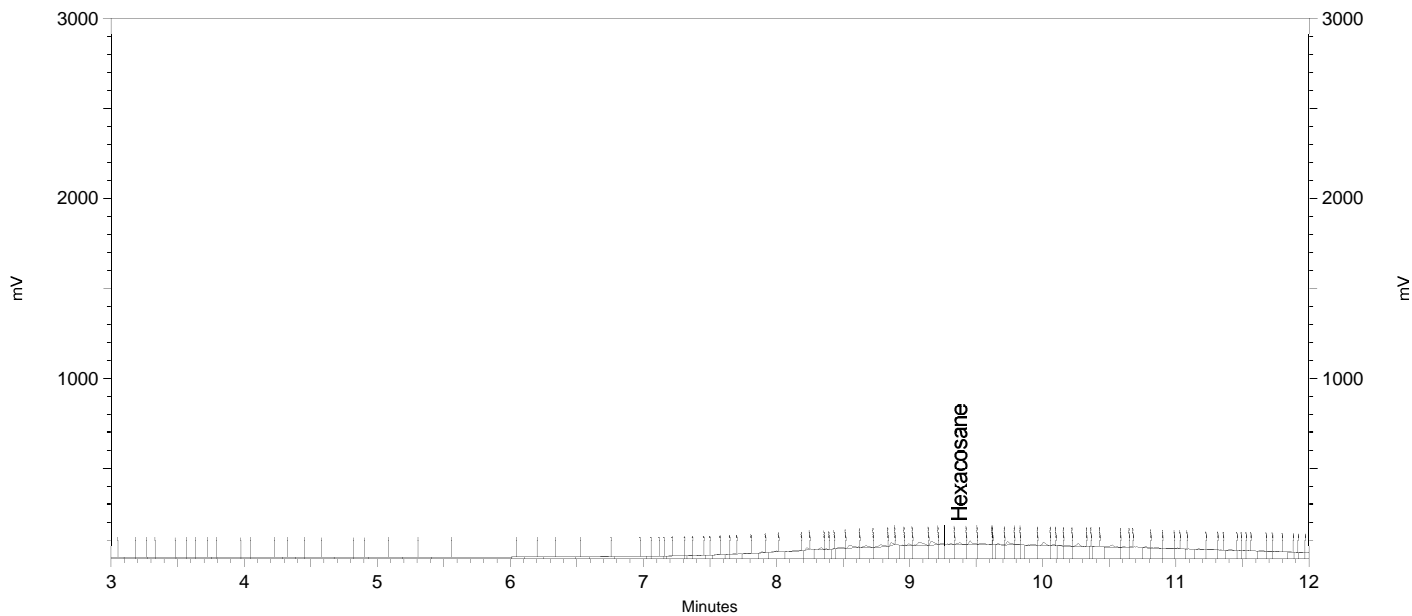
None				



Sample Name: ical,s36946,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a024.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 9:12:00 PM
 Analysis Date: 8/22/2018 1:20:25 PM
 Instrument: GC27 (Offline)A Vial: 24 Operator: teh
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	9.373	222373	1.100



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

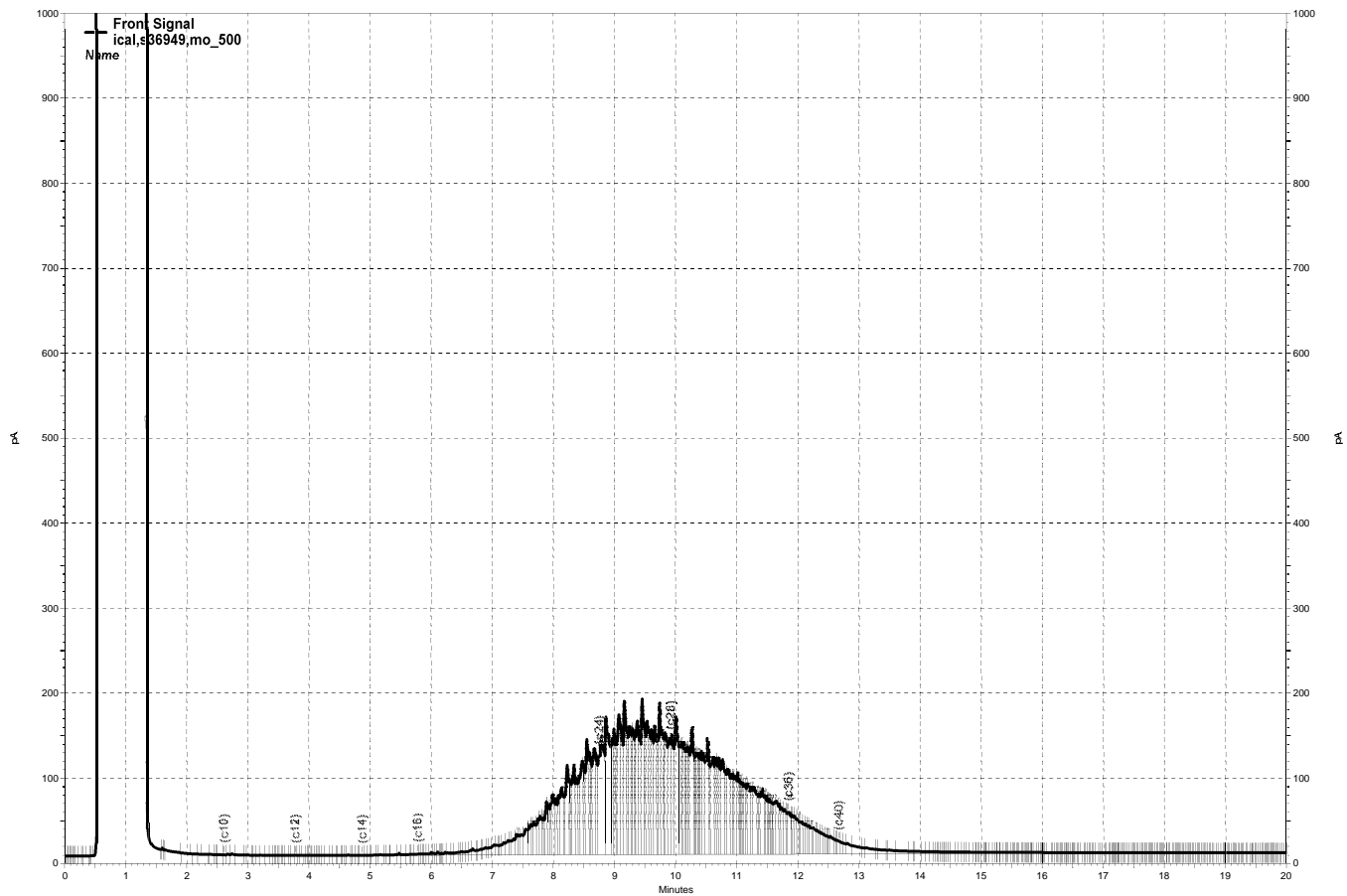
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a024.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Stop	5.192	19.936	0



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a025.dat, Front Signal

Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a025.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 9:37:02 PM
 Analysis Date: 8/22/2018 8:49:13 AM
 Instrument: GC27 (Offline)A Vial: 25 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		366411	0.000 CAL
DSL:10-14		91249	0.000 CAL
DSL:10-22		21190470	0.000 CAL
DSL:10-24		52533747	0.000 CAL
DSL:10-28		126417583	0.000 CAL
DSL:12-24		52474382	0.000 CAL
DSL:12-28		126358218	0.000 CAL
DSL:14-24		52447850	0.000 CAL
DSL:16-24		52264658	0.000 CAL
MO:22-32		163861319	500.000 CAL
MO:24-36		164317996	500.000 CAL
MO:28-40		97726928	500.000 CAL
BUNKC:10-40		218160294	0.000 CAL
BUNKC:12-40		218100929	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

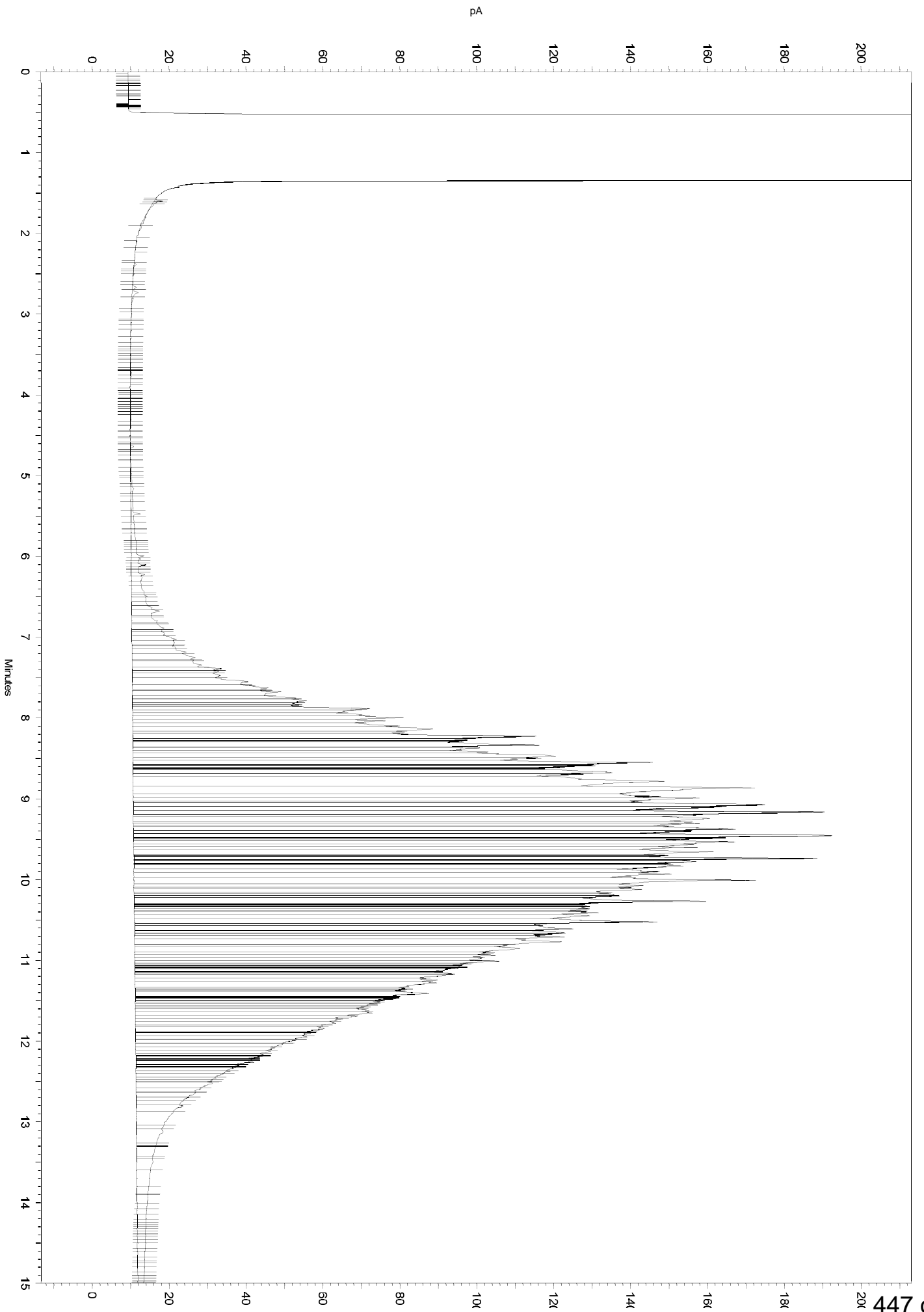
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold            0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a025.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop       16.032   19.918     0
  
```



Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a025.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 9:37:02 PM
 Analysis Date: 8/22/2018 8:45:12 AM
 Instrument: GC27 (Offline)A Vial: 25 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		331943	0.000 CAL
DSL:10-14		88457	0.000 CAL
DSL:10-22		20915629	0.000 CAL
DSL:10-24		52149961	0.000 CAL
DSL:10-28		125803567	0.000 CAL
DSL:12-24		52090596	0.000 CAL
DSL:12-28		125744202	0.000 CAL
DSL:14-24		52065103	0.000 CAL
DSL:16-24		51905844	0.000 CAL
MO:22-32		163241774	500.000 CAL
MO:24-36		163530921	500.000 CAL
MO:28-40		96914611	500.000 CAL
BUNKC:10-40		216756167	0.000 CAL
BUNKC:12-40		216696802	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

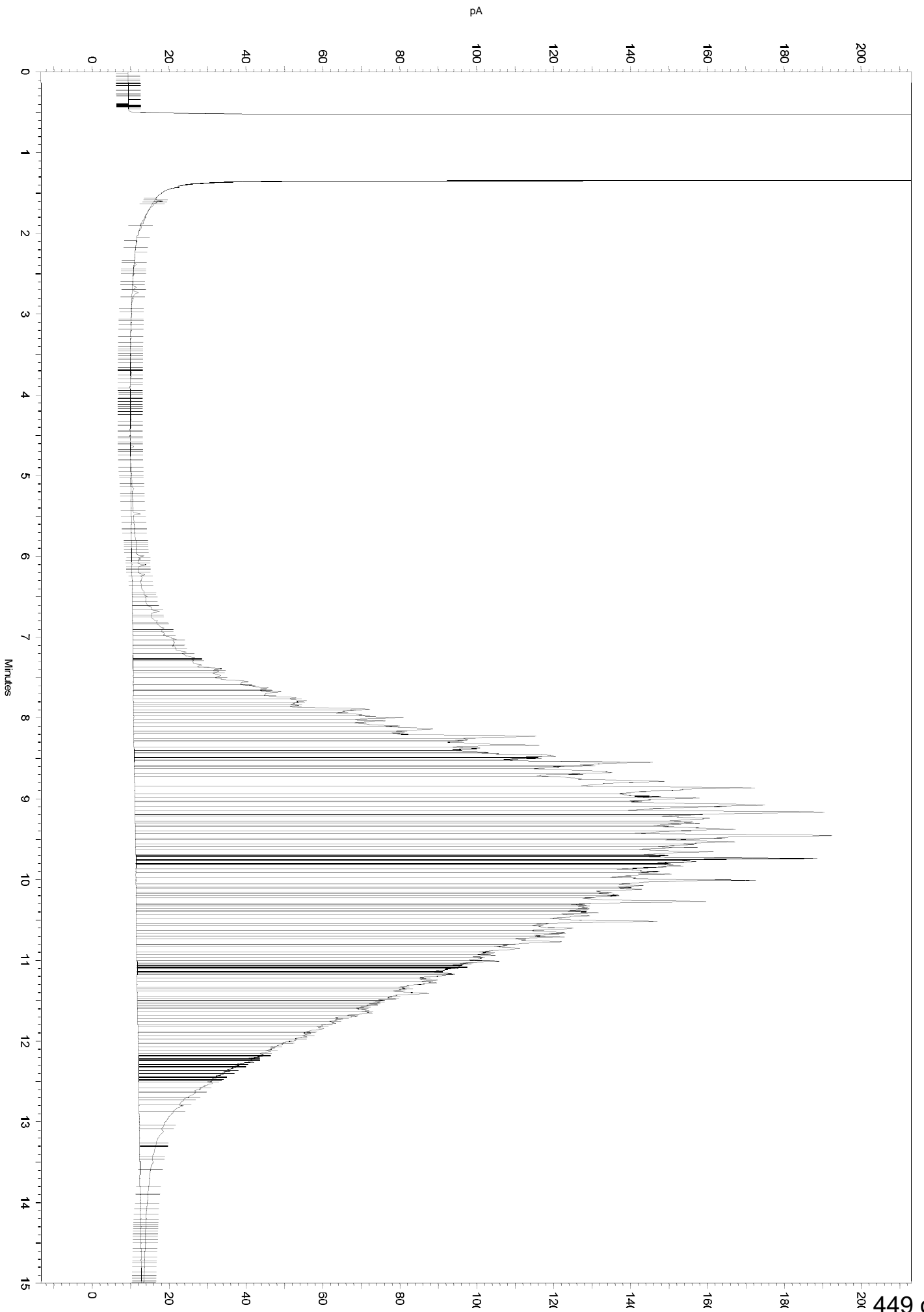
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold           0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a025.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



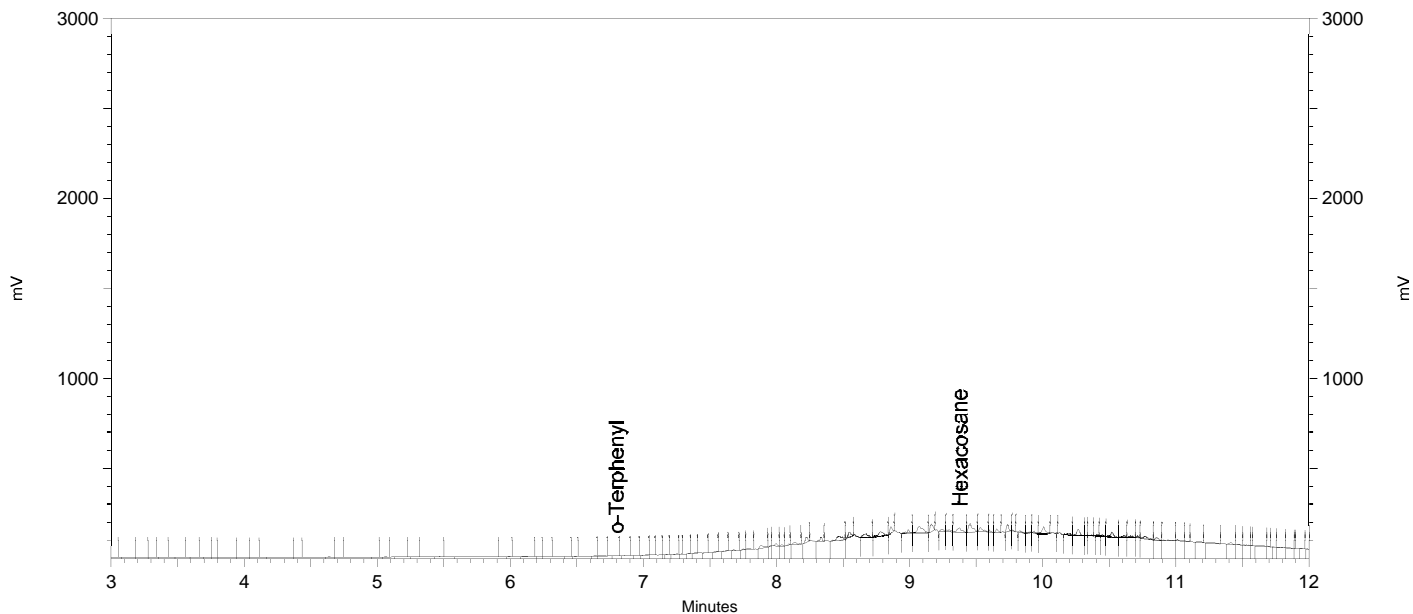
Sample Name: ical,s36948,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a025.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 9:37:02 PM
 Analysis Date: 8/22/2018 1:20:33 PM
 Instrument: GC27 (Offline)A Vial: 25 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.800	7030	0.021
Hexacosane	9.377	475335	2.352



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

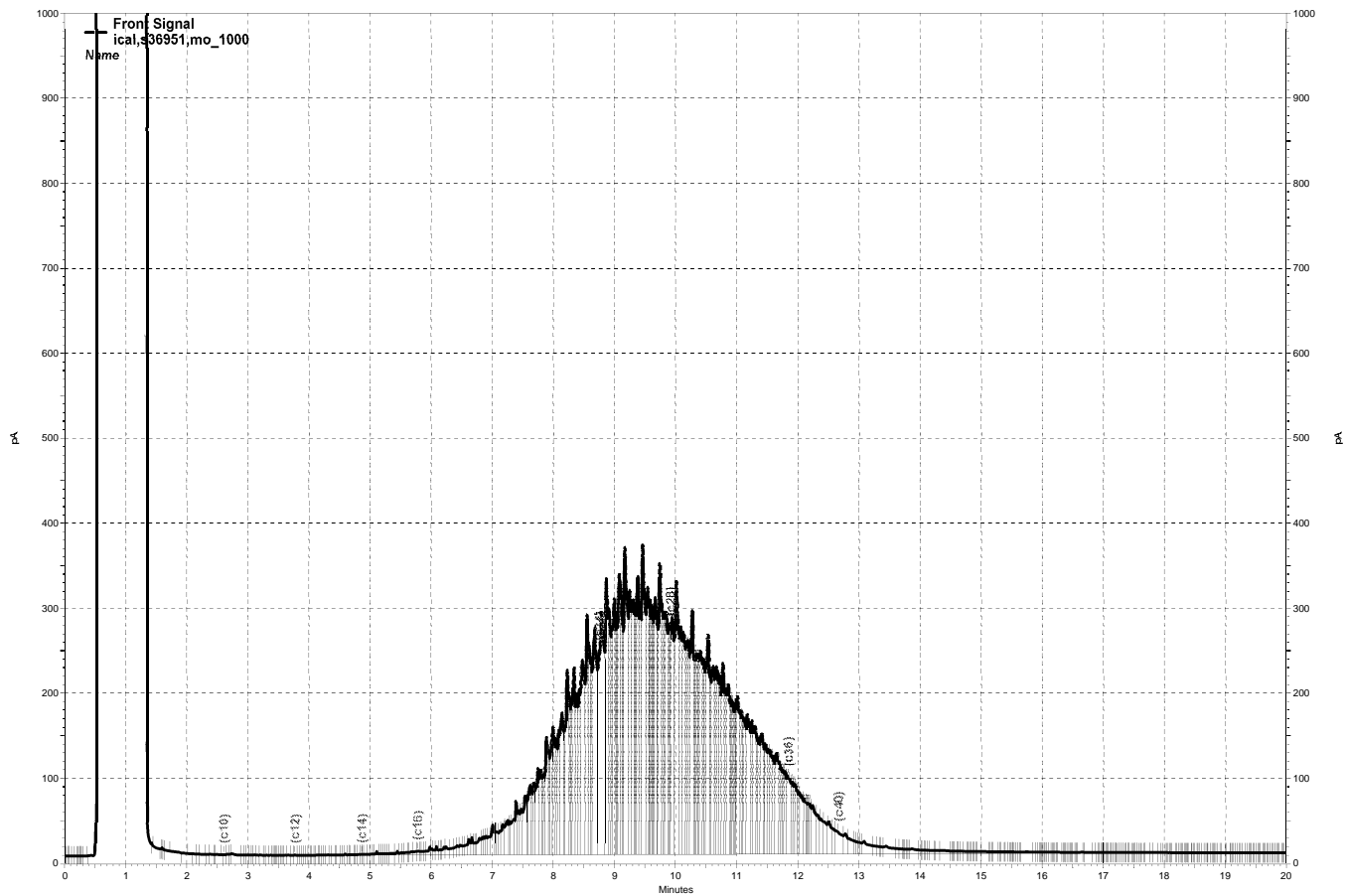
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15   500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a025.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
No Move BL Stop        16.032 19.918   0
  
```

— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a026.dat, Front Signal

Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a026.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 10:02:11 PM
 Analysis Date: 8/22/2018 8:49:17 AM
 Instrument: GC27 (Offline)A Vial: 26 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		1253082	0.000 CAL
DSL:10-14		247033	0.000 CAL
DSL:10-22		47775636	0.000 CAL
DSL:10-24		113743992	0.000 CAL
DSL:10-28		264045238	0.000 CAL
DSL:12-24		113651613	0.000 CAL
DSL:12-28		263952859	0.000 CAL
DSL:14-24		113533792	0.000 CAL
DSL:16-24		112744845	0.000 CAL
MO:22-32		336164409	1000.000 CAL
MO:24-36		333766706	1000.000 CAL
MO:28-40		188918494	1000.000 CAL
BUNKC:10-40		441913887	0.000 CAL
BUNKC:12-40		441821508	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

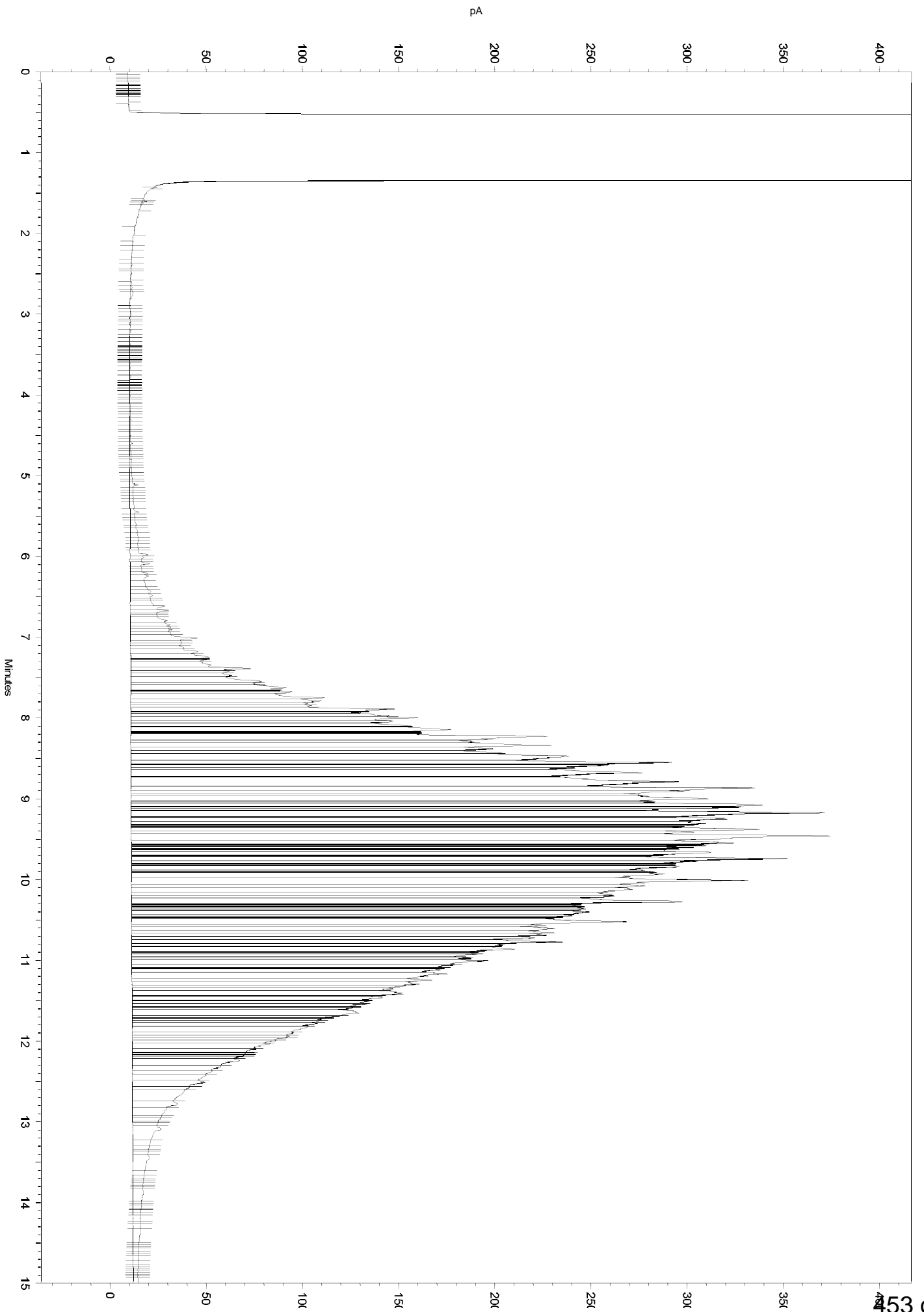
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0       0
Yes Threshold            0       0      10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a026.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Start       19.875  3.945   0
  
```



Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a026.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 10:02:11 PM
 Analysis Date: 8/22/2018 8:45:41 AM
 Instrument: GC27 (Offline)A Vial: 26 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		1189934	0.000 CAL
DSL:10-14		231166	0.000 CAL
DSL:10-22		47461720	0.000 CAL
DSL:10-24		113322331	0.000 CAL
DSL:10-28		263406855	0.000 CAL
DSL:12-24		113229952	0.000 CAL
DSL:12-28		263314476	0.000 CAL
DSL:14-24		113124585	0.000 CAL
DSL:16-24		112377654	0.000 CAL
MO:22-32		335569447	1000.000 CAL
MO:24-36		333034762	1000.000 CAL
MO:28-40		188176076	1000.000 CAL
BUNKC:10-40		440552016	0.000 CAL
BUNKC:12-40		440459637	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

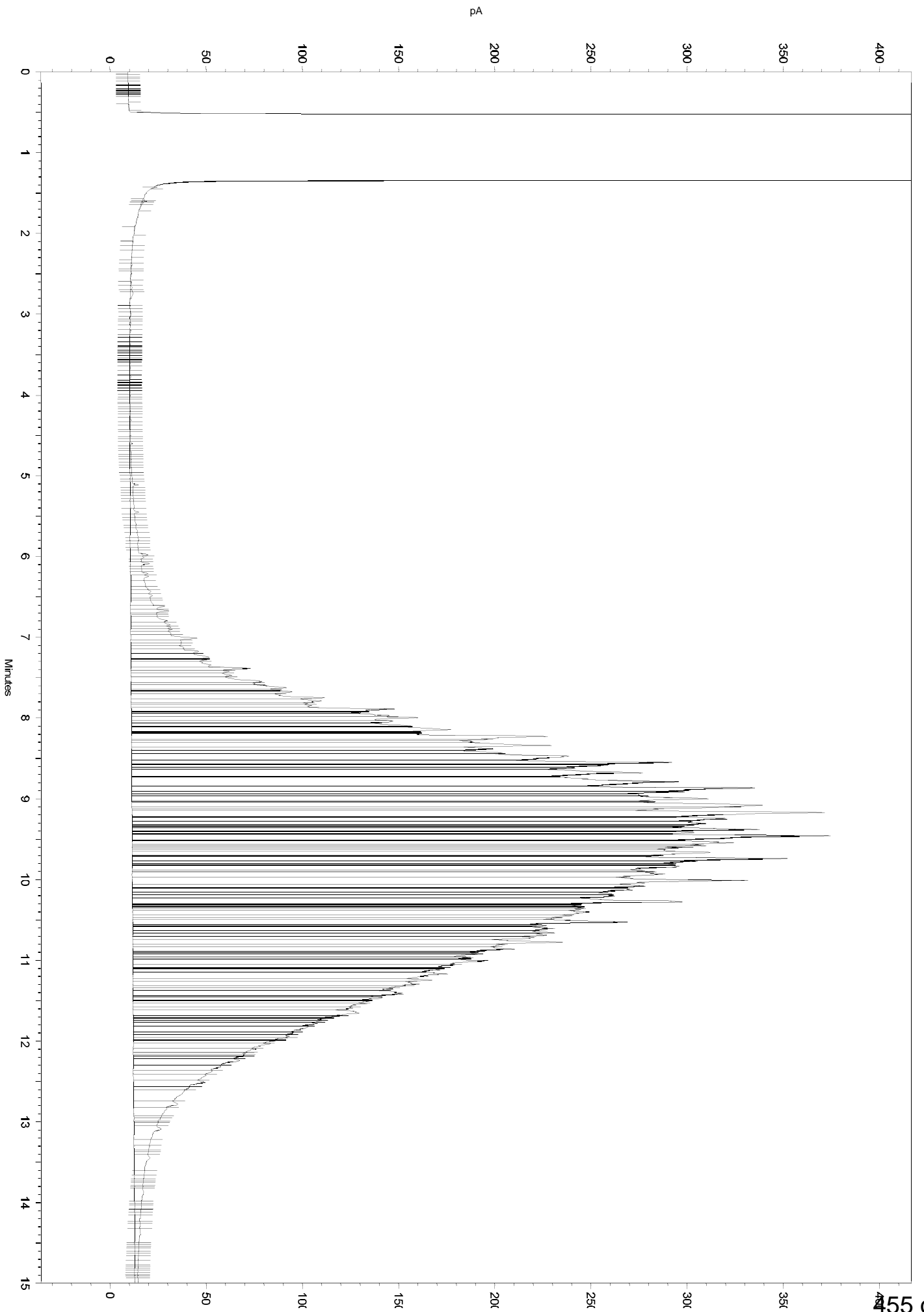
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold           0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a026.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

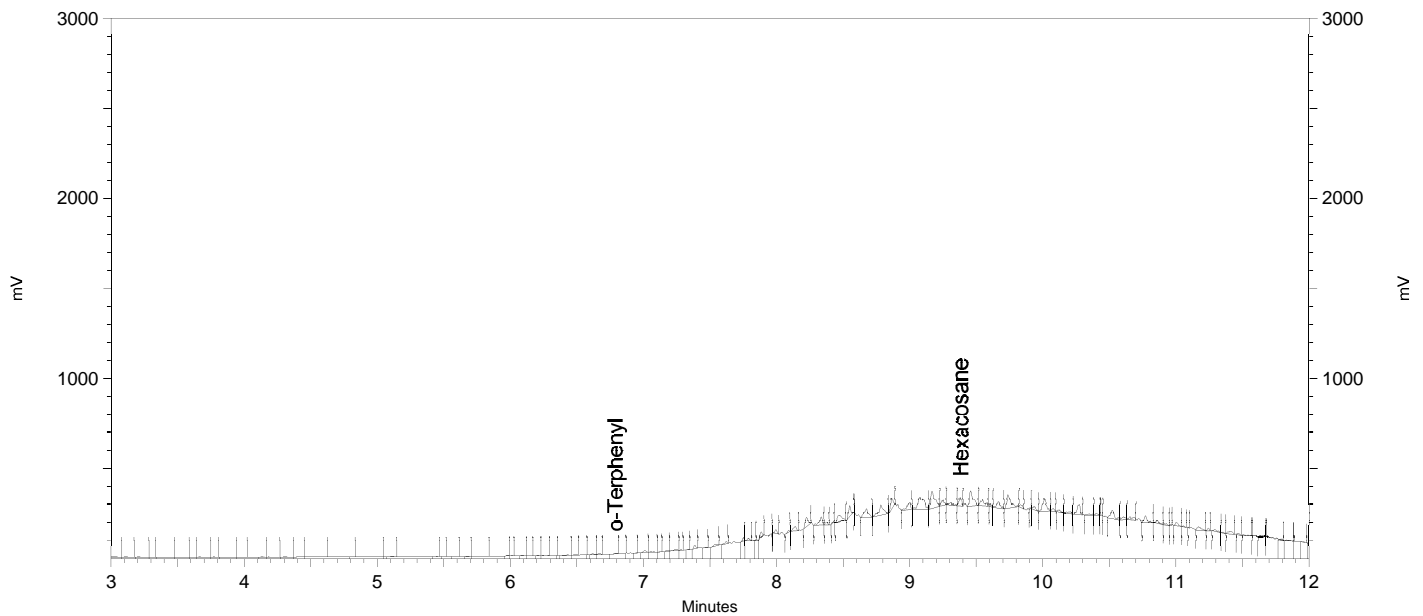


Sample Name: ical,s36949,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a026.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-both\sur_233.met
 Run Date: 8/21/2018 10:02:11 PM
 Analysis Date: 8/22/2018 1:20:43 PM
 Instrument: GC27 (Offline)A Vial: 26 Operator: teh
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.793	31757	0.097
Hexacosane	9.382	524556	2.596



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```
=====
```

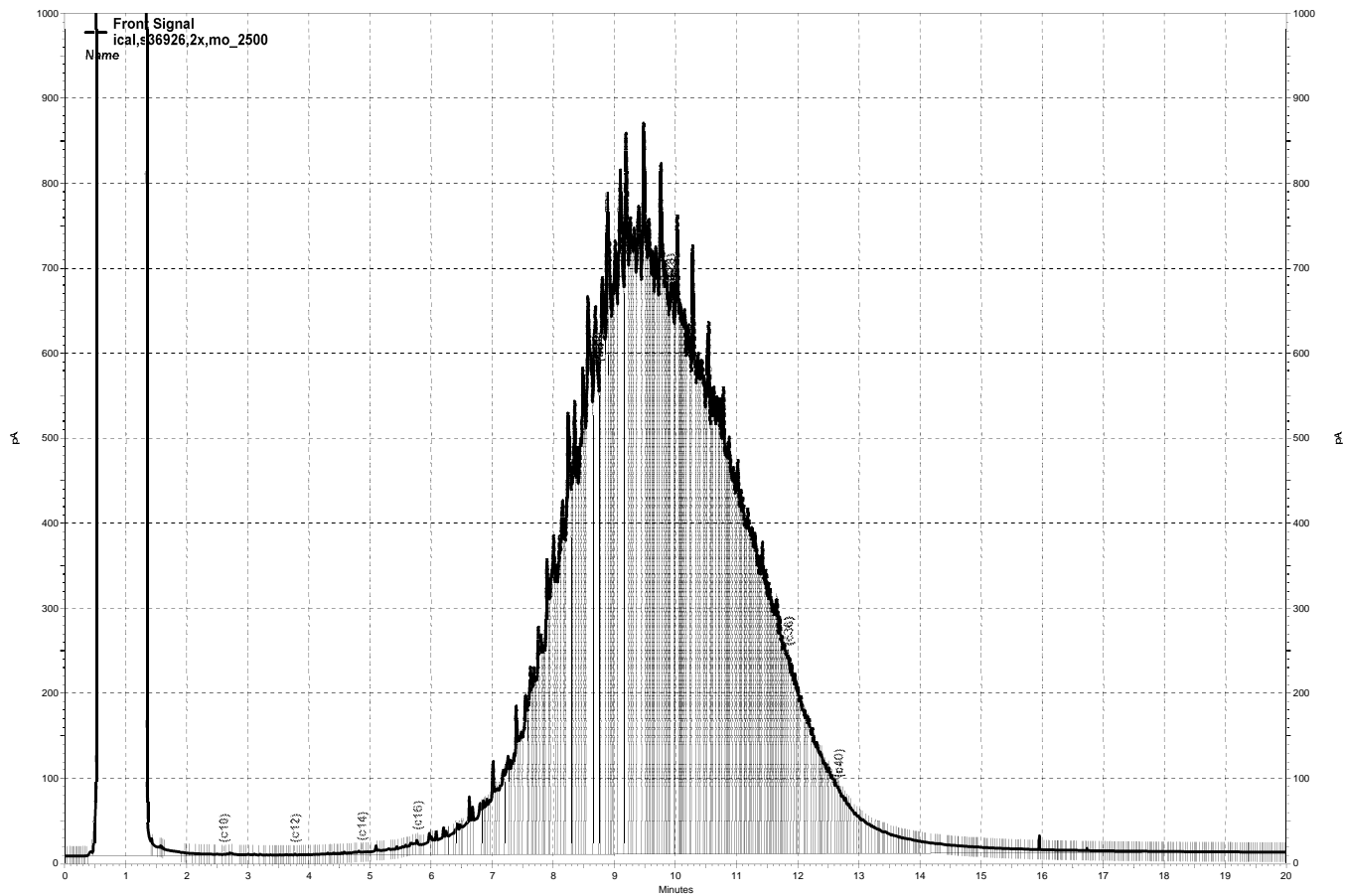
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a026.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Start	19.875	3.945	0



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a027.dat, Front Signal

Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a027.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 10:27:26 PM
 Analysis Date: 8/22/2018 8:49:21 AM
 Instrument: GC27 (Offline)A Vial: 27 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		4625021	0.000 CAL
DSL:10-14		1328005	0.000 CAL
DSL:10-22		130335750	0.000 CAL
DSL:10-24		295067018	0.000 CAL
DSL:10-28		664712808	0.000 CAL
DSL:12-24		294669519	0.000 CAL
DSL:12-28		664315309	0.000 CAL
DSL:14-24		293980037	0.000 CAL
DSL:16-24		291251380	0.000 CAL
MO:22-32		817886118	2500.000 CAL
MO:24-36		824952091	2500.000 CAL
MO:28-40		488537010	2500.000 CAL
BUNKC:10-40		1110264752	0.000 CAL
BUNKC:12-40		1109867253	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

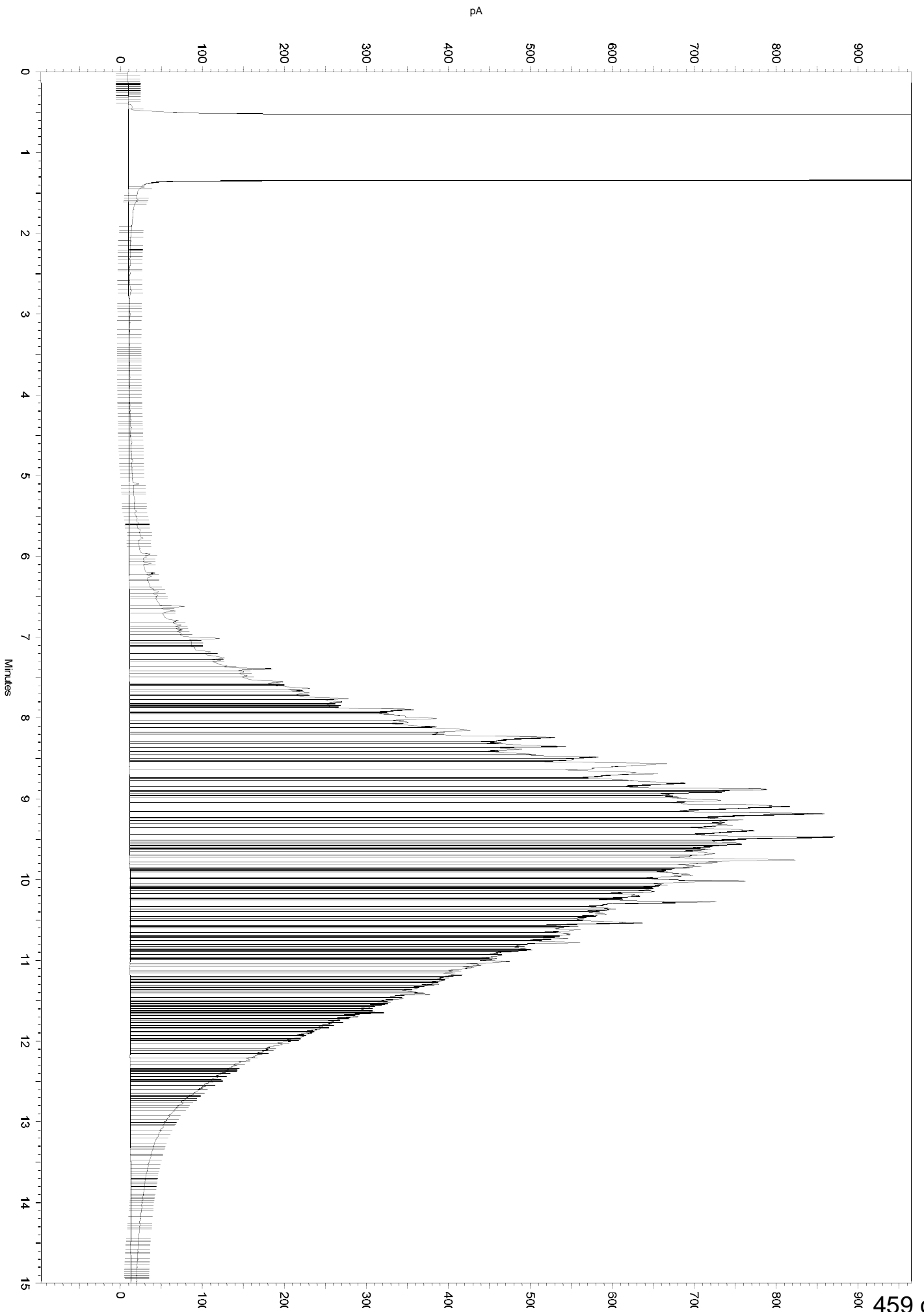
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0     0
Yes Threshold            0       0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a027.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Start       3.482  0.287     0
  
```

Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a027.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 10:27:26 PM
 Analysis Date: 8/22/2018 8:46:16 AM
 Instrument: GC27 (Offline)A Vial: 27 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		4153993	0.000 CAL
DSL:10-14		947588	0.000 CAL
DSL:10-22		129657639	0.000 CAL
DSL:10-24		294335979	0.000 CAL
DSL:10-28		663899783	0.000 CAL
DSL:12-24		294186480	0.000 CAL
DSL:12-28		663750284	0.000 CAL
DSL:14-24		293613910	0.000 CAL
DSL:16-24		290978259	0.000 CAL
MO:22-32		817673624	2500.000 CAL
MO:24-36		824734080	2500.000 CAL
MO:28-40		488363747	2500.000 CAL
BUNKC:10-40		1109288217	0.000 CAL
BUNKC:12-40		1109138718	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

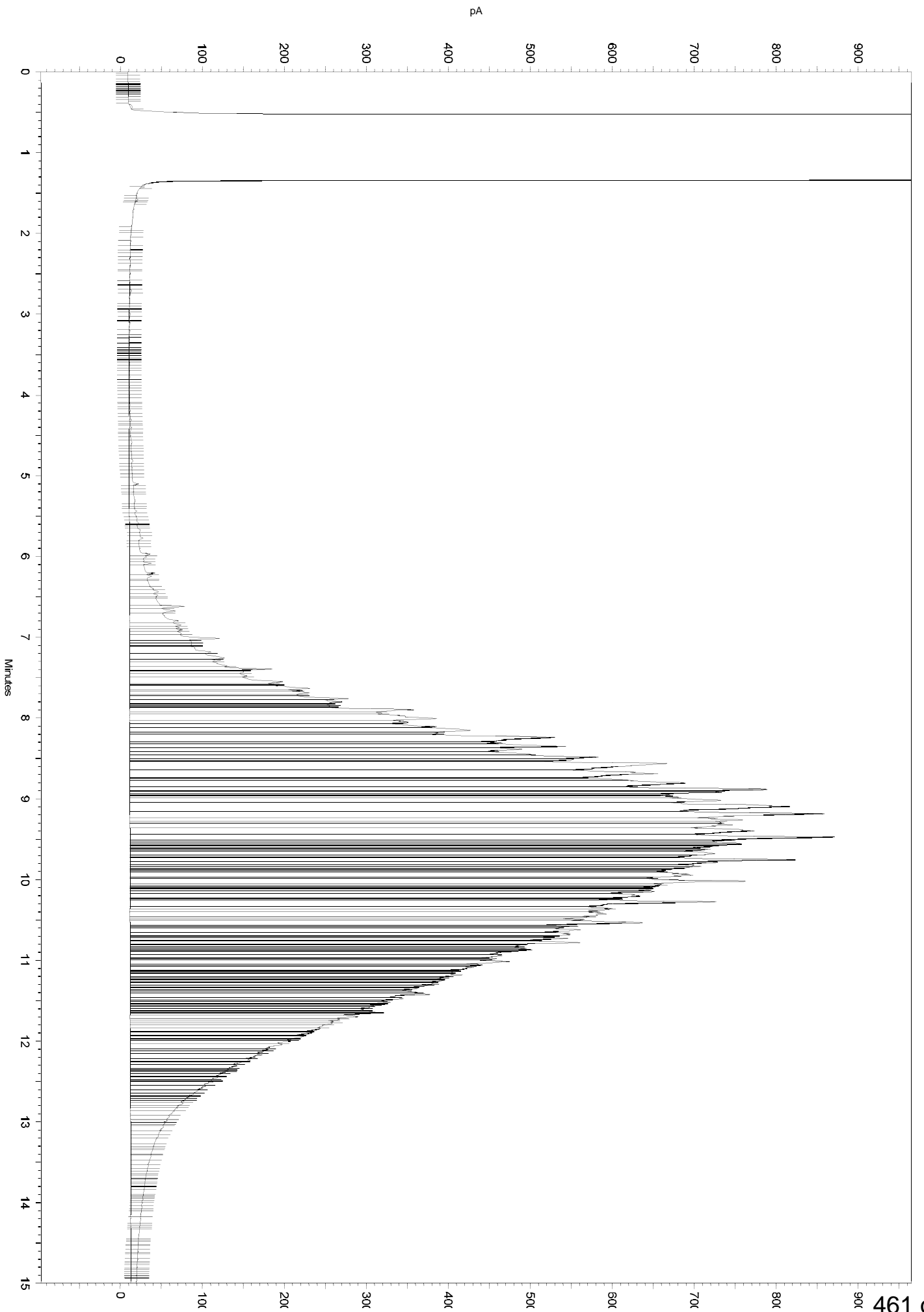
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold           0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a027.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



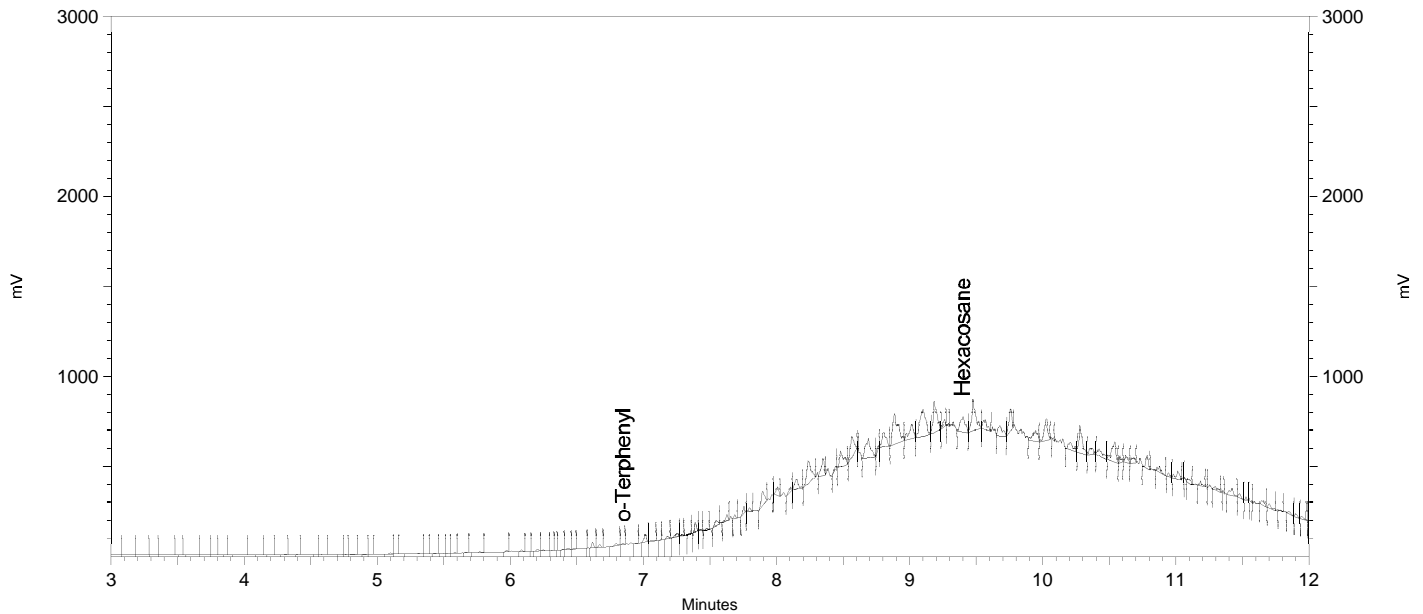
Sample Name: ical,s36951,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a027.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 10:27:26 PM
 Analysis Date: 8/22/2018 1:20:51 PM
 Instrument: GC27 (Offline)A Vial: 27 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.848	64959	0.198
Hexacosane	9.397	1639681	8.114



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

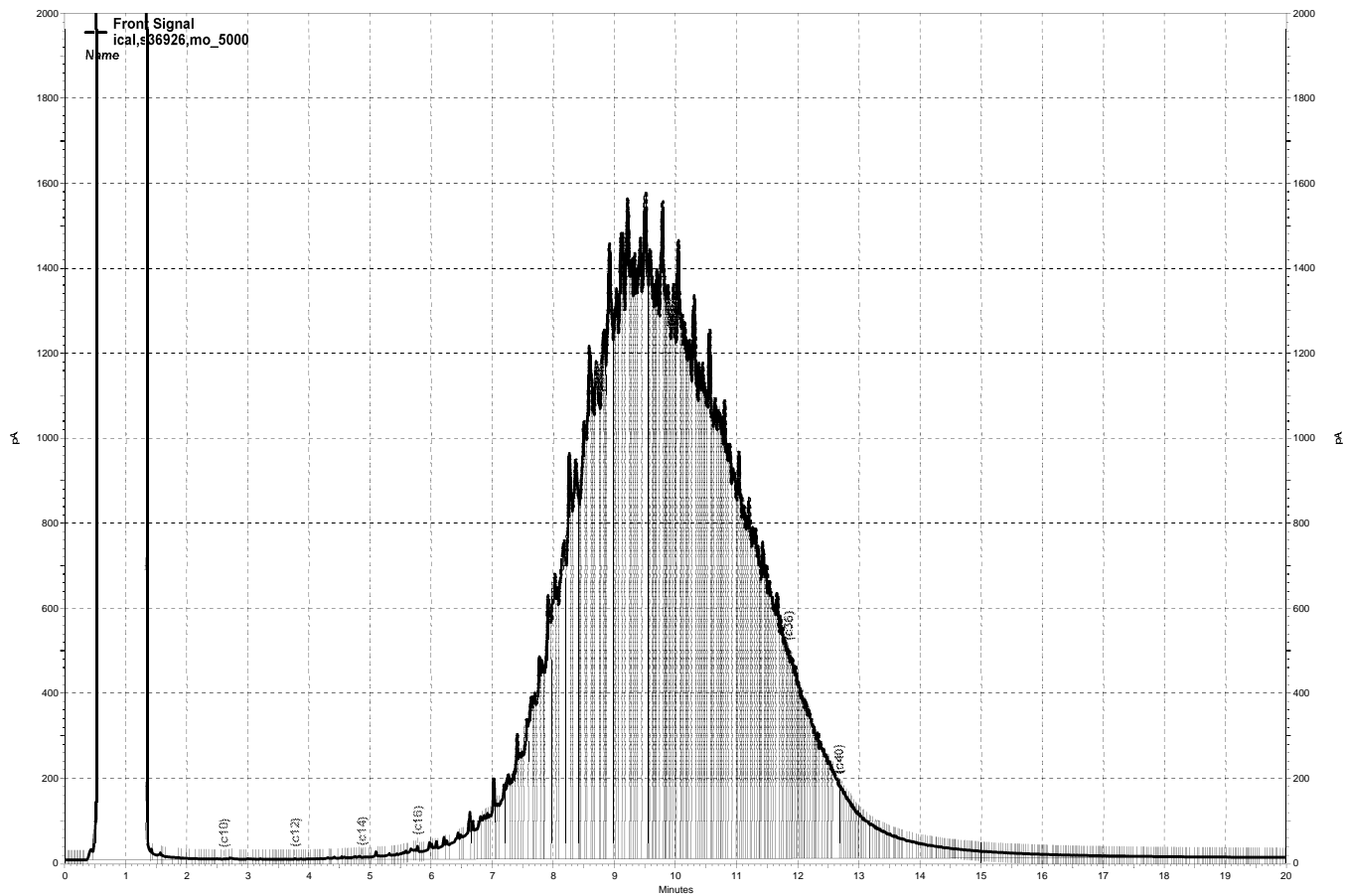
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a027.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
No Move BL Start       3.482  0.287  0
  
```



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a028.dat, Front Signal

Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a028.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 10:52:41 PM
 Analysis Date: 8/22/2018 8:49:25 AM
 Instrument: GC27 (Offline)A Vial: 28 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		7350625	0.000 CAL
DSL:10-14		2092462	0.000 CAL
DSL:10-22		200450036	0.000 CAL
DSL:10-24		520809851	0.000 CAL
DSL:10-28		1246354913	0.000 CAL
DSL:12-24		520258655	0.000 CAL
DSL:12-28		1245803717	0.000 CAL
DSL:14-24		519082688	0.000 CAL
DSL:16-24		514720958	0.000 CAL
MO:22-32		1578084552	5000.000 CAL
MO:24-36		1608098837	5000.000 CAL
MO:28-40		997021055	5000.000 CAL
BUNKC:10-40		2153229644	0.000 CAL
BUNKC:12-40		2152678448	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

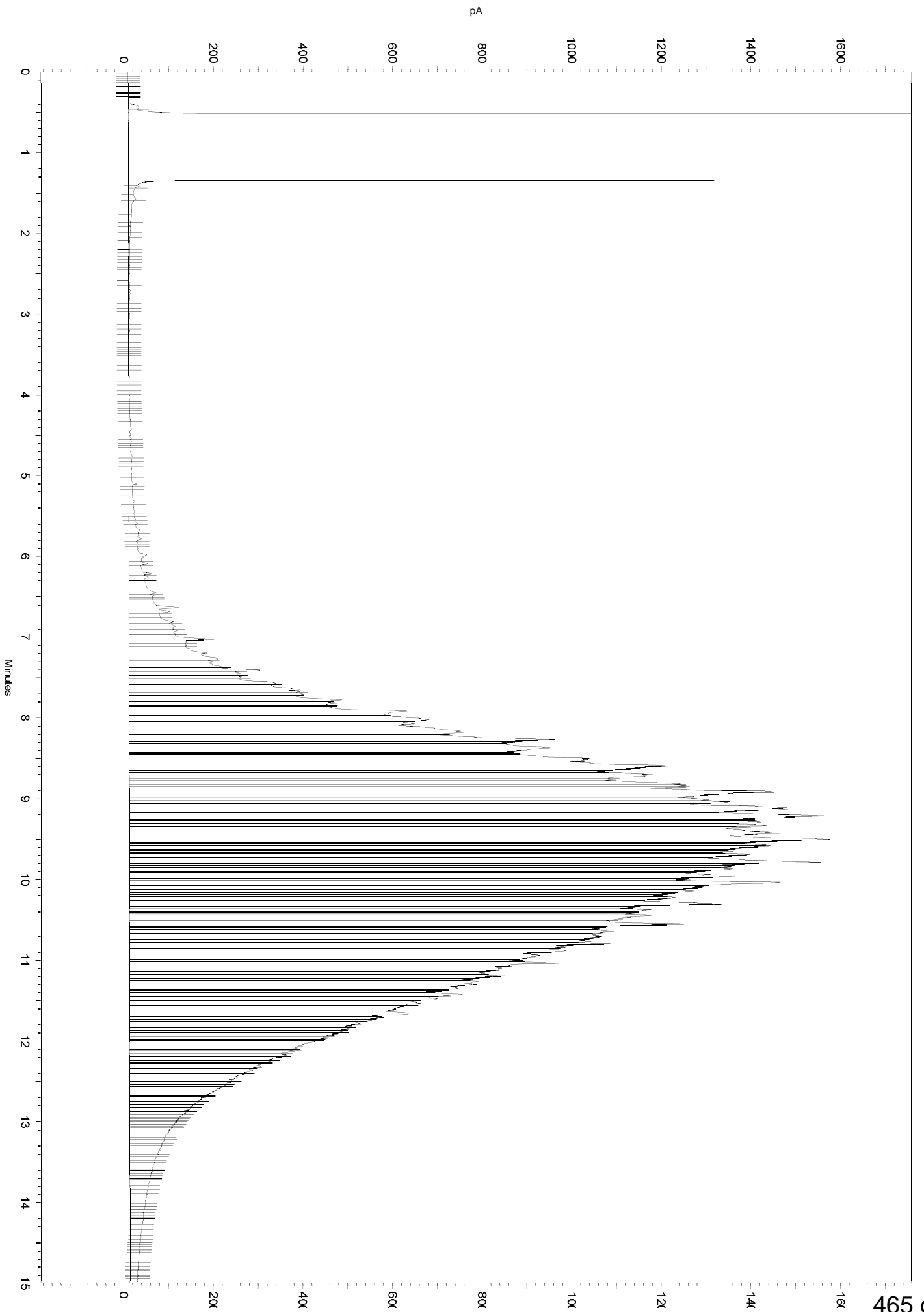
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold           0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a028.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Start       3.353     0.269     0
  
```



Sample Name: ical,s36926,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a028.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 10:52:41 PM
 Analysis Date: 8/22/2018 8:46:32 AM
 Instrument: GC27 (Offline)A Vial: 28 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		6670665	0.000 CAL
DSL:10-14		1562219	0.000 CAL
DSL:10-22		199447220	0.000 CAL
DSL:10-24		519712623	0.000 CAL
DSL:10-28		1245121182	0.000 CAL
DSL:12-24		519477305	0.000 CAL
DSL:12-28		1244885864	0.000 CAL
DSL:14-24		518491375	0.000 CAL
DSL:16-24		514282957	0.000 CAL
MO:22-32		1577740499	5000.000 CAL
MO:24-36		1607747587	5000.000 CAL
MO:28-40		996739949	5000.000 CAL
BUNKC:10-40		2151731753	0.000 CAL
BUNKC:12-40		2151496435	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

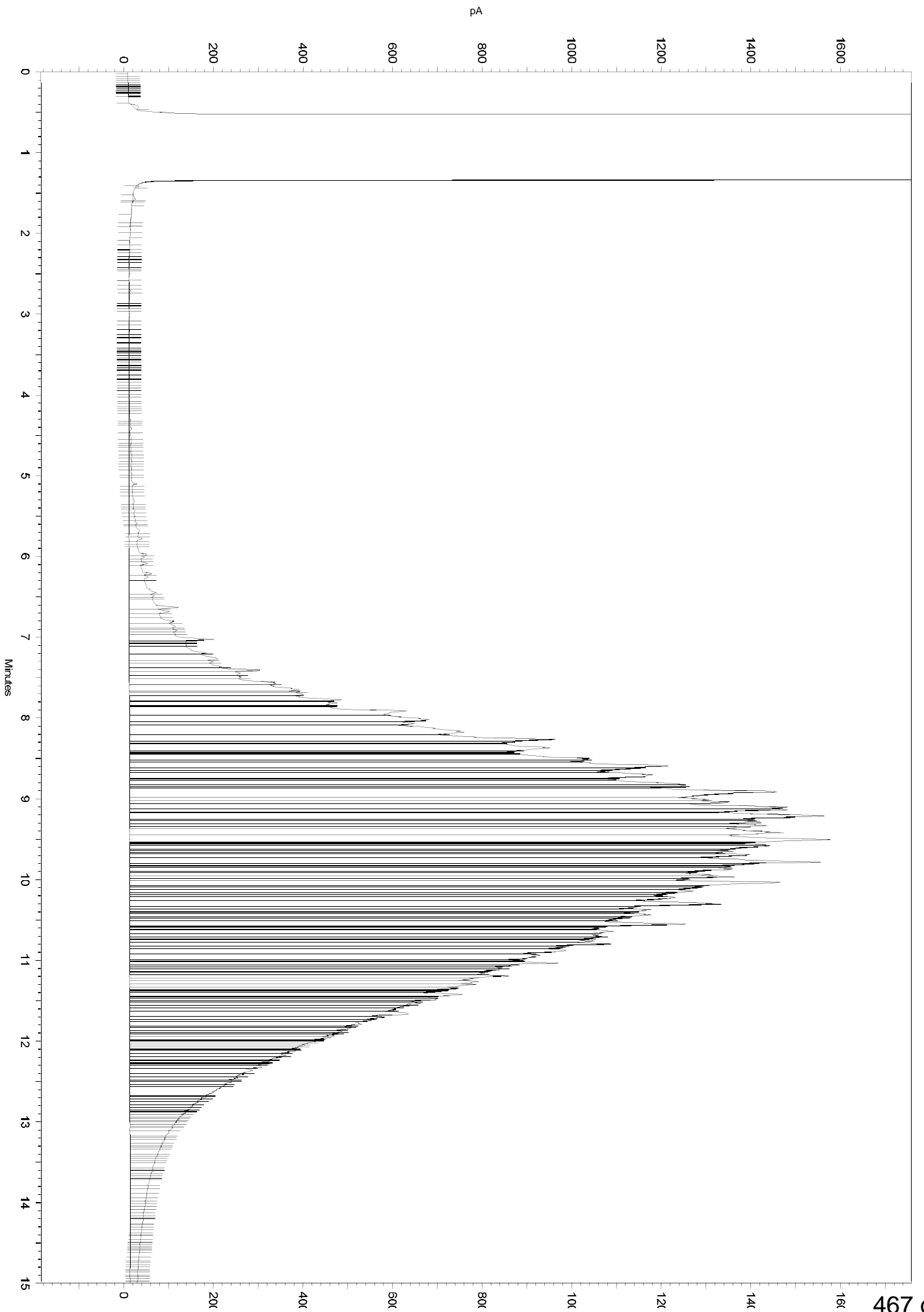
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a028.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



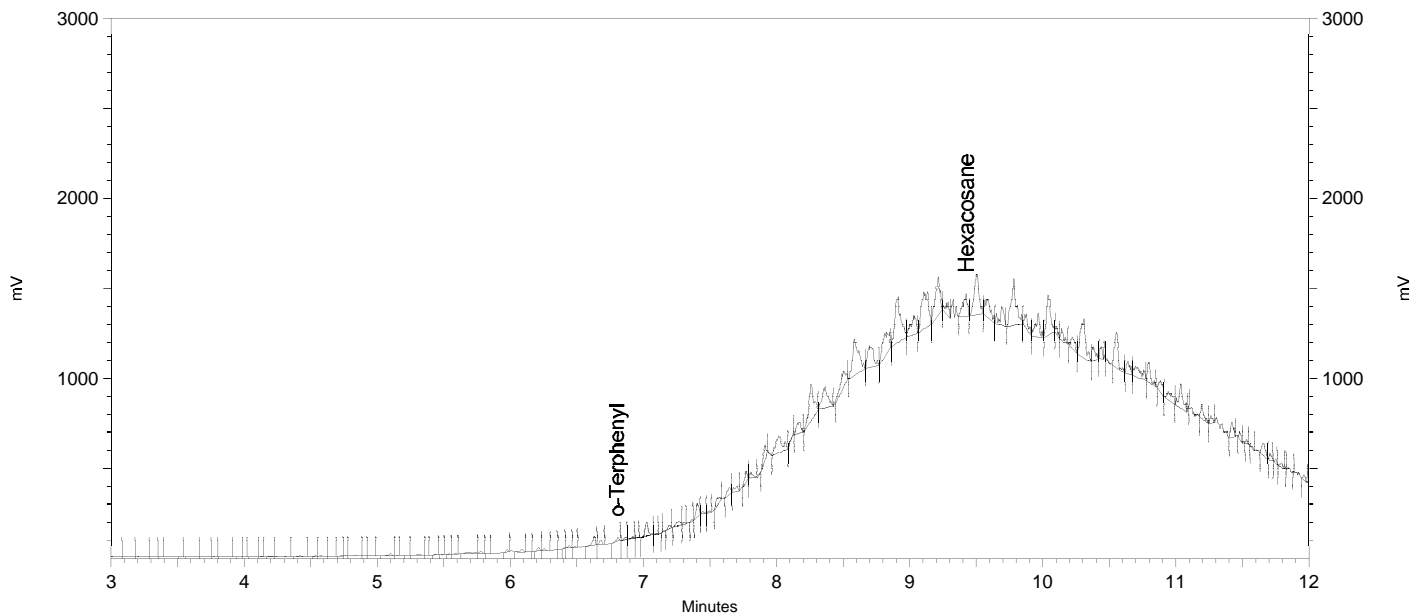
Sample Name: ical,s36926,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a028.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 10:52:41 PM
 Analysis Date: 8/22/2018 1:21:02 PM
 Instrument: GC27 (Offline)A Vial: 28 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.803	205294	0.627
Hexacosane	9.423	2145686	10.618



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

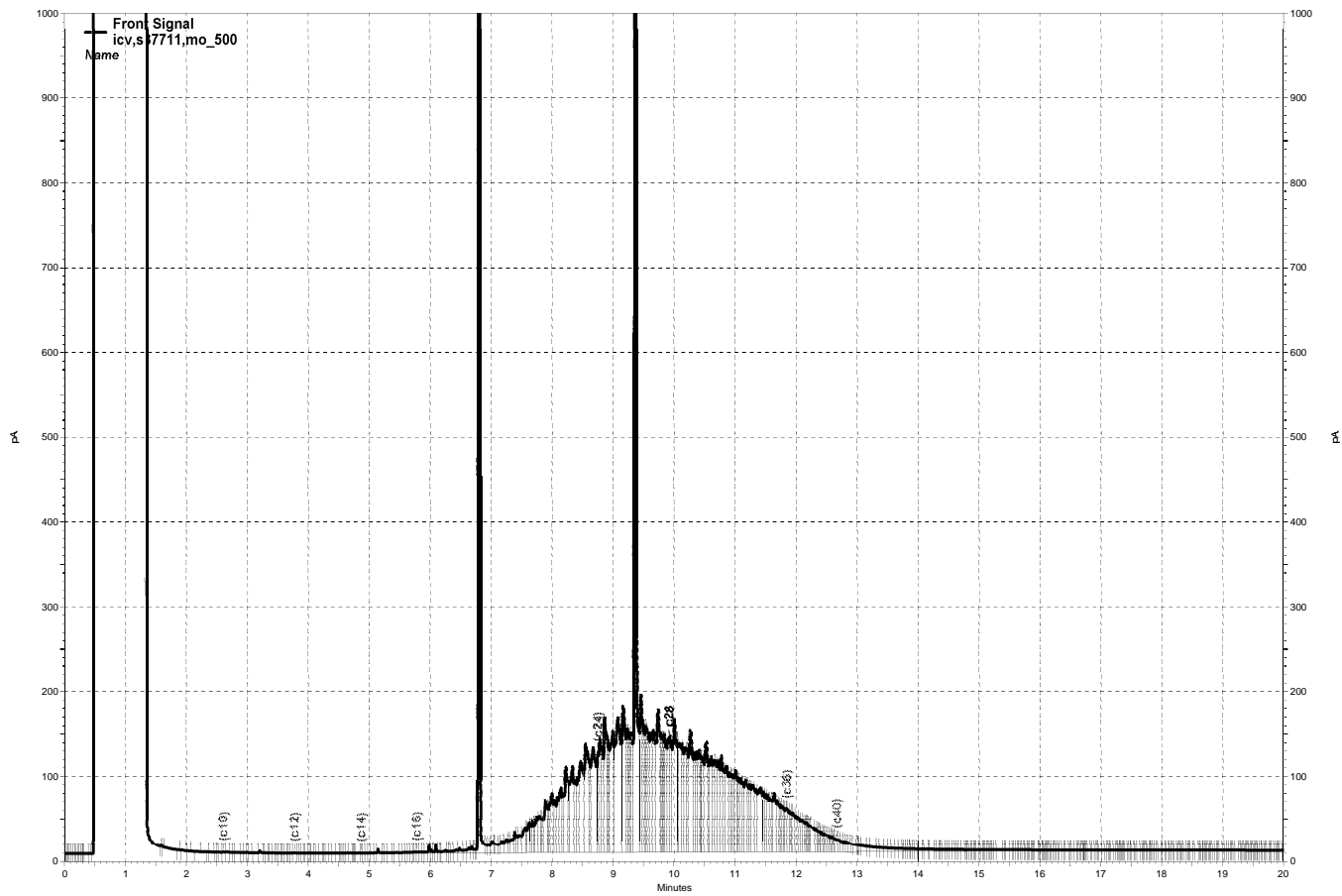
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a028.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
No Move BL Start       3.353  0.269  0
  
```



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a030.dat, Front Signal

Sample Name: icv,s37711,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a030.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_233.met
 Run Date: 8/21/2018 11:43:08 PM
 Analysis Date: 8/22/2018 10:22:01 AM
 Instrument: GC27 (Offline)A Vial: 30 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		308616	0.652
DSL:10-14		106838	0.601
DSL:10-22		48248098	106.488
DSL:10-24		78493087	168.656
DSL:10-28		173945299	368.680
DSL:12-24		78418706	200.260
DSL:12-28		173870918	436.877
DSL:14-24		78391894	258.596
DSL:16-24		78245690	374.504
MO:22-32		185052235	578.495
MO:24-36		183017325	565.778
MO:28-40		98688088	505.203
BUNKC:10-40		265756377	1315.167
BUNKC:12-40		265681996	1356.223

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

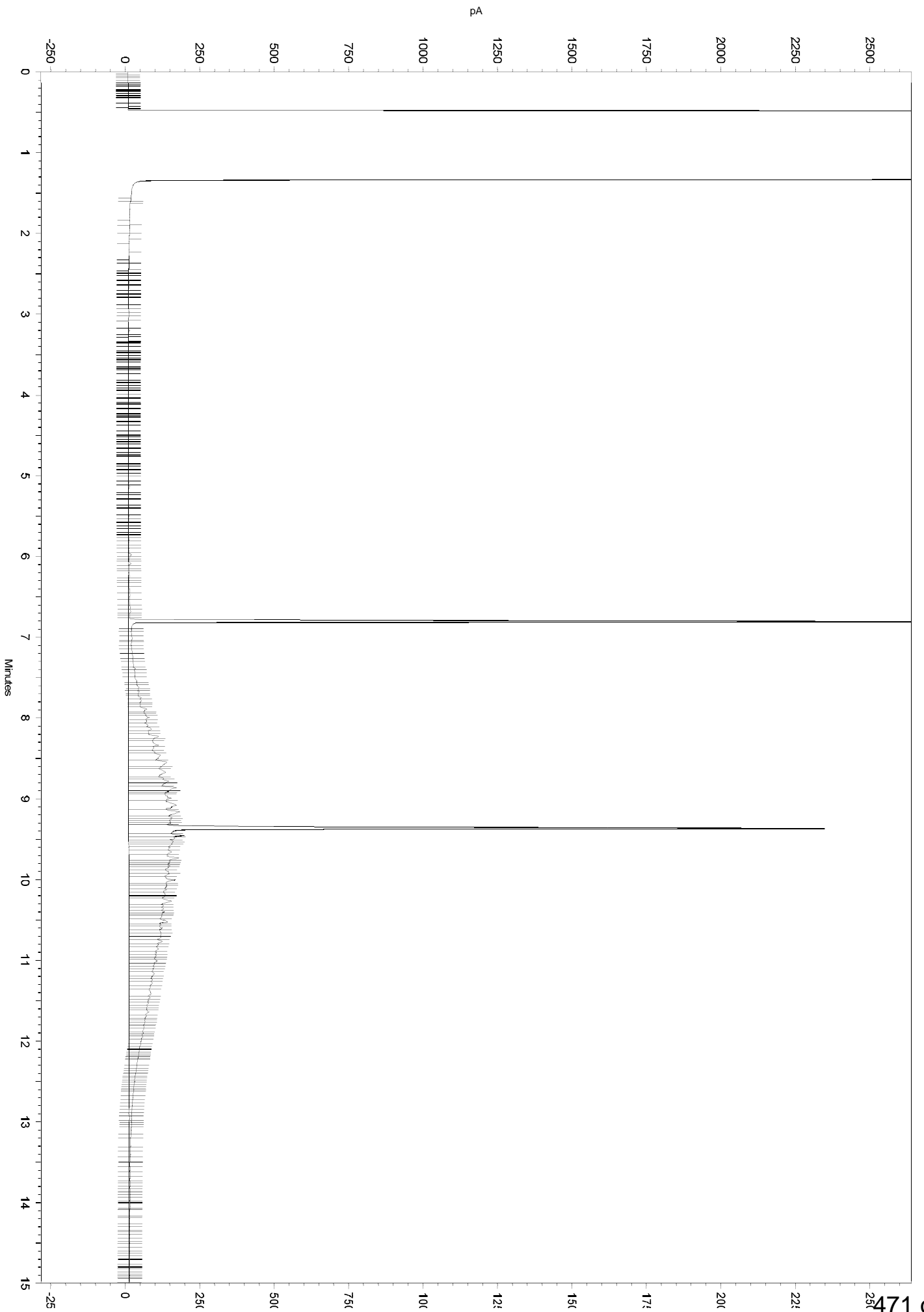
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a030.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.757	7.108	0
No	Split Peak	6.87	0	0
No	Manual Peak	9.321	9.691	0
No	Split Peak	9.409	0	0

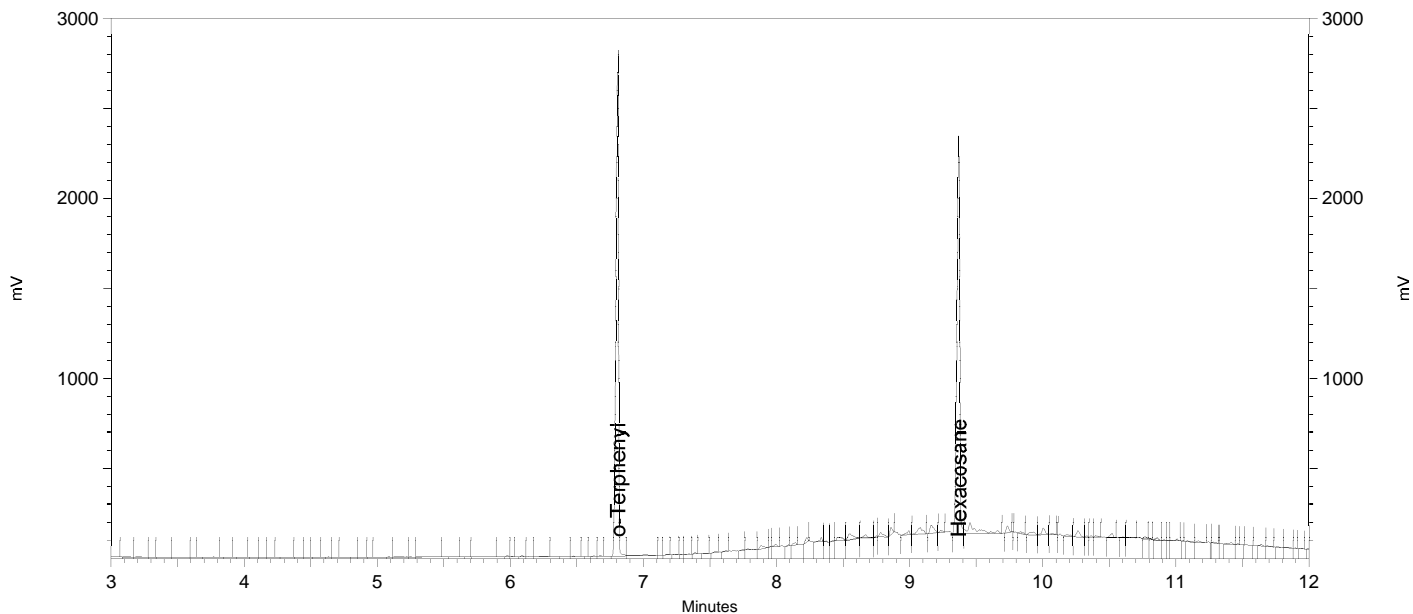


Sample Name: **ib,calib**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a030.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 11:43:08 PM
 Analysis Date: 8/22/2018 10:21:28 AM
 Instrument: GC27 (Offline)A Vial: 30 Operator: teh
 Sample Amount: 1

GC27a
TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.810	28435191	58.858
Hexacosane	9.368	24351565	80.265



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a030.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak        6.757  7.108   0
Yes Split Peak         6.87   0       0
Yes Manual Peak        9.321  9.691   0
Yes Split Peak         9.409  0       0
  
```

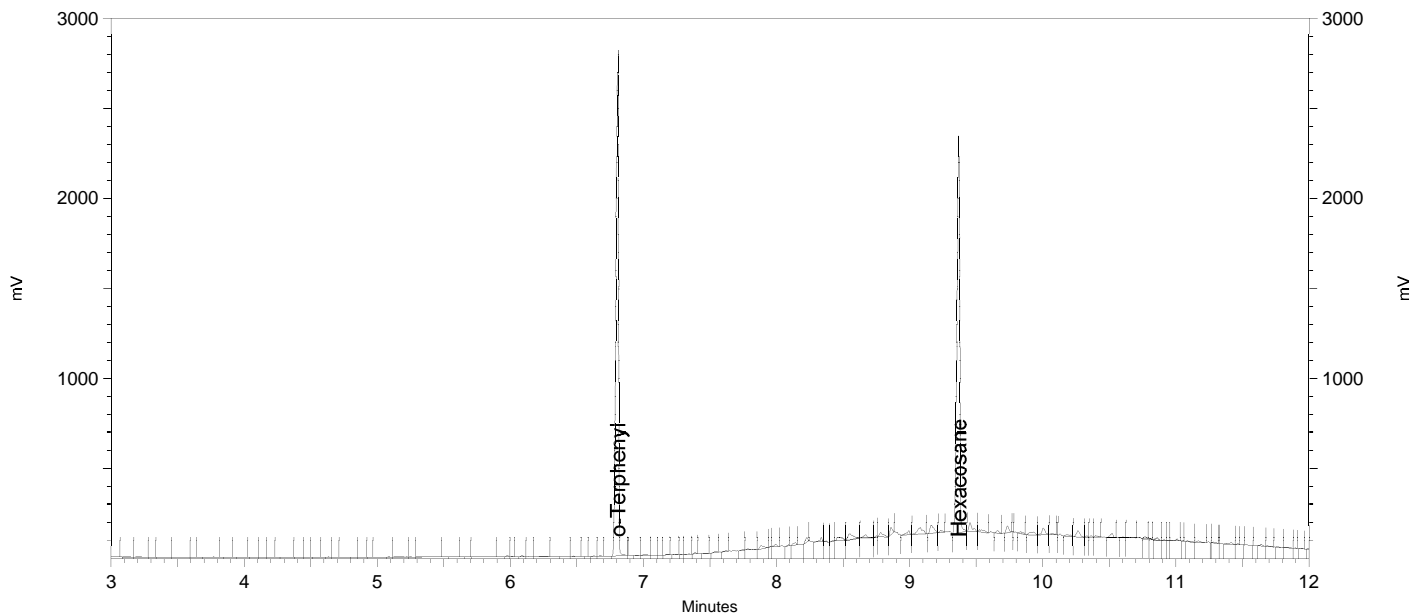

Sample Name: icv,s37711,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a030.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\233.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_233.met
 Run Date: 8/21/2018 11:43:08 PM
 Analysis Date: 8/22/2018 10:21:05 AM
 Instrument: GC27 (Offline)A Vial: 30 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.810	28345985	58.673
Hexacosane	9.368	24221072	79.834



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\233a030.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```


ENTHALPY INITIAL CALIBRATION FOR 303845 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 978348840001
 Units : mg/L

Name : HEXOTP_242
 Date : 30-AUG-2018 13:46
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	242a010	978348840010	HEX OTP_2.5	30-AUG-2018 13:46	S36499 (2X)
L2	242a011	978348840011	HEX OTP_5	30-AUG-2018 14:11	S36499
L3	242a012	978348840012	HEX OTP_10	30-AUG-2018 14:36	S36500
L4	242a013	978348840013	HEX OTP_25	30-AUG-2018 15:02	S36501
L5	242a014	978348840014	HEX OTP_50	30-AUG-2018 15:27	S36503 (2X)
L6	242a015	978348840015	HEX OTP_100	30-AUG-2018 15:52	S36503

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	548536	551187	559001	552245	551309	551953	AVRG		1.81E-6		552372	1	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	-1	5.0000	0	10.000	1	25.000	0	50.000	0	100.00	0

WA1 08/30/18 : Corrected automatically drawn baseline in all levels.

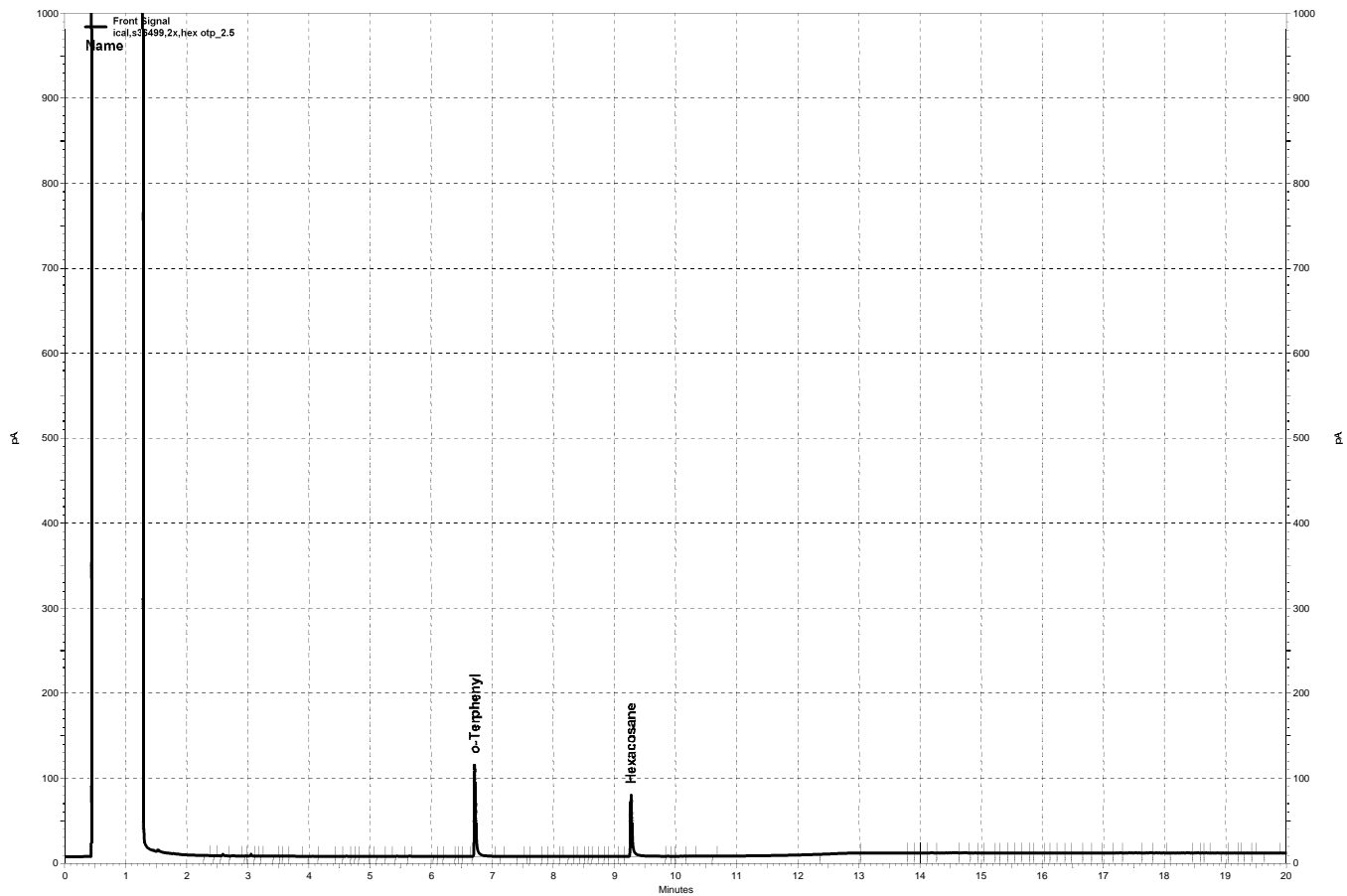
Analyst: WA1

Date: 08/30/18

Reviewer: TKM

Date: 08/30/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



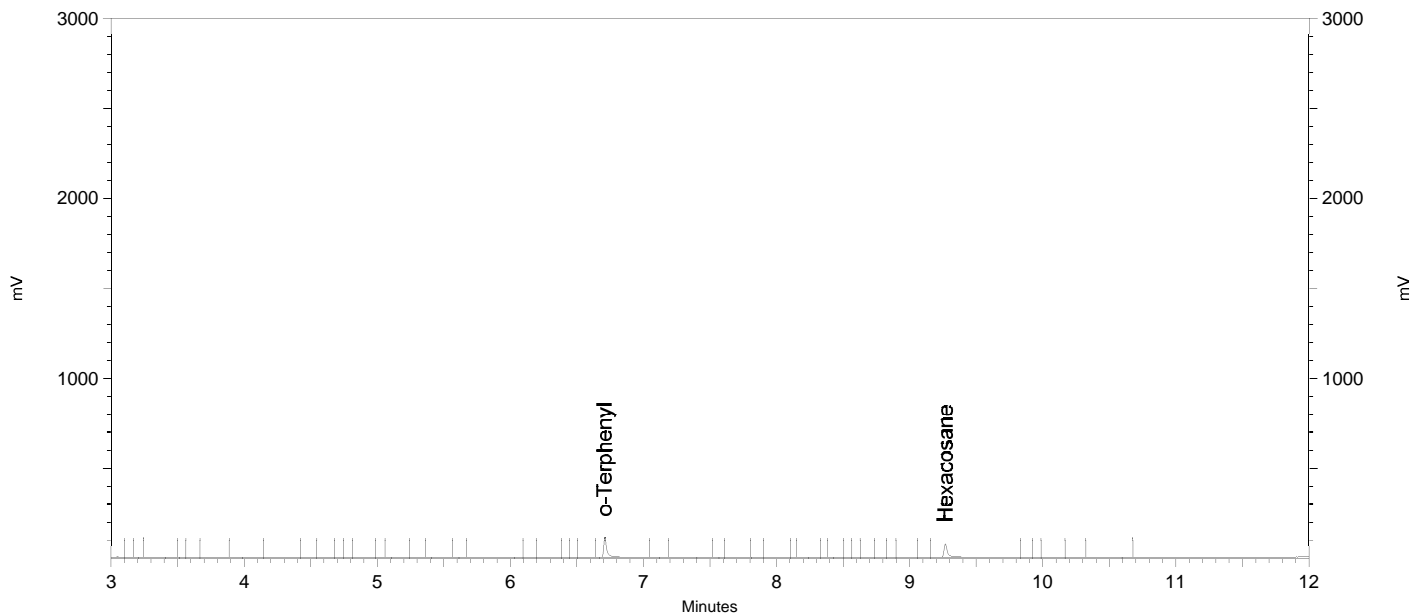
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a010.dat, Front Signal

Sample Name: ical,s36499,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a010.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-both\sur_242b.met
 Run Date: 8/30/2018 1:46:47 PM
 Analysis Date: 8/30/2018 5:42:33 PM
 Instrument: GC27A Vial: 10 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.710	1371341	2.483
Hexacosane	9.268	1085355	2.356



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a010.dat

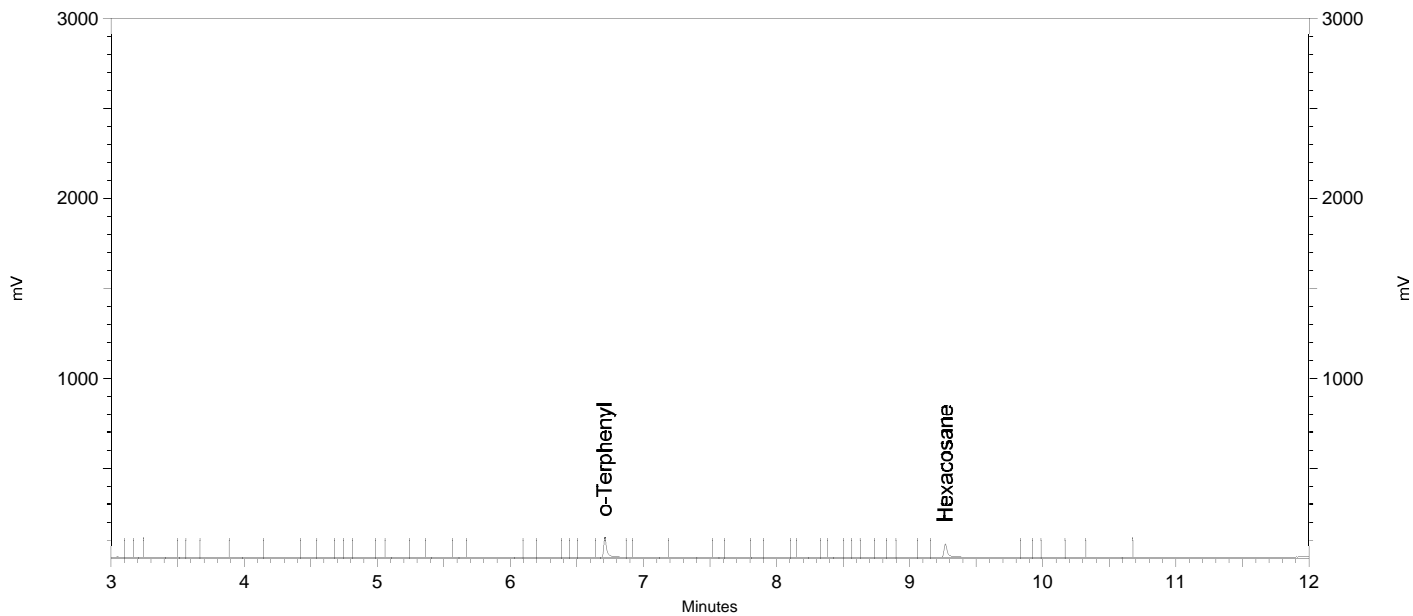
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.668	7.046	0

Sample Name: ical,s36499,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a010.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_242b.met
 Run Date: 8/30/2018 1:46:47 PM
 Analysis Date: 8/30/2018 5:42:27 PM
 Instrument: GC27A Vial: 10 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.710	1312204	2.376
Hexacosane	9.268	1085355	2.356



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```
=====
```

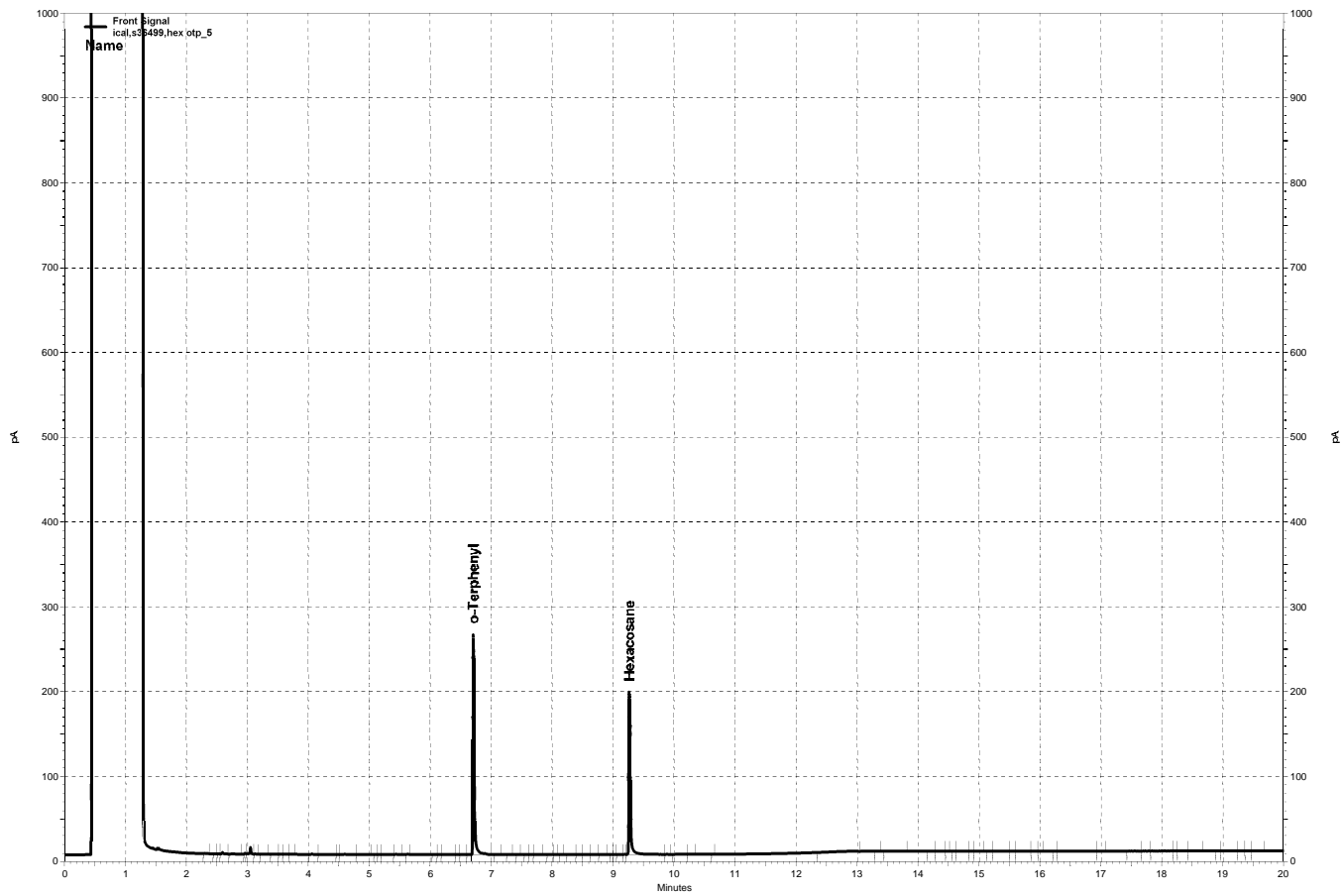
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a010.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



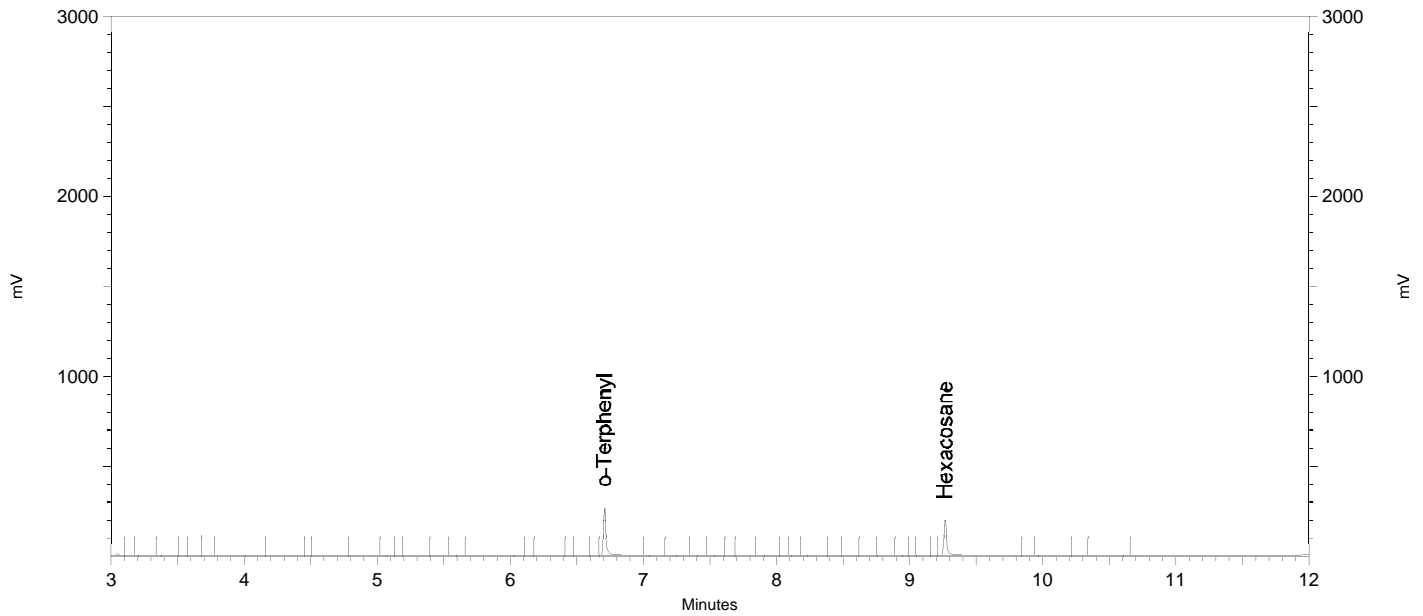
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a011.dat, Front Signal

Sample Name: ical,s36499,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a011.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_242b.met
 Run Date: 8/30/2018 2:11:48 PM
 Analysis Date: 8/30/2018 5:42:50 PM
 Instrument: GC27A Vial: 11 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.707	2755936	4.989
Hexacosane	9.265	2270253	4.929



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a011.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.67   7.001  0
  
```

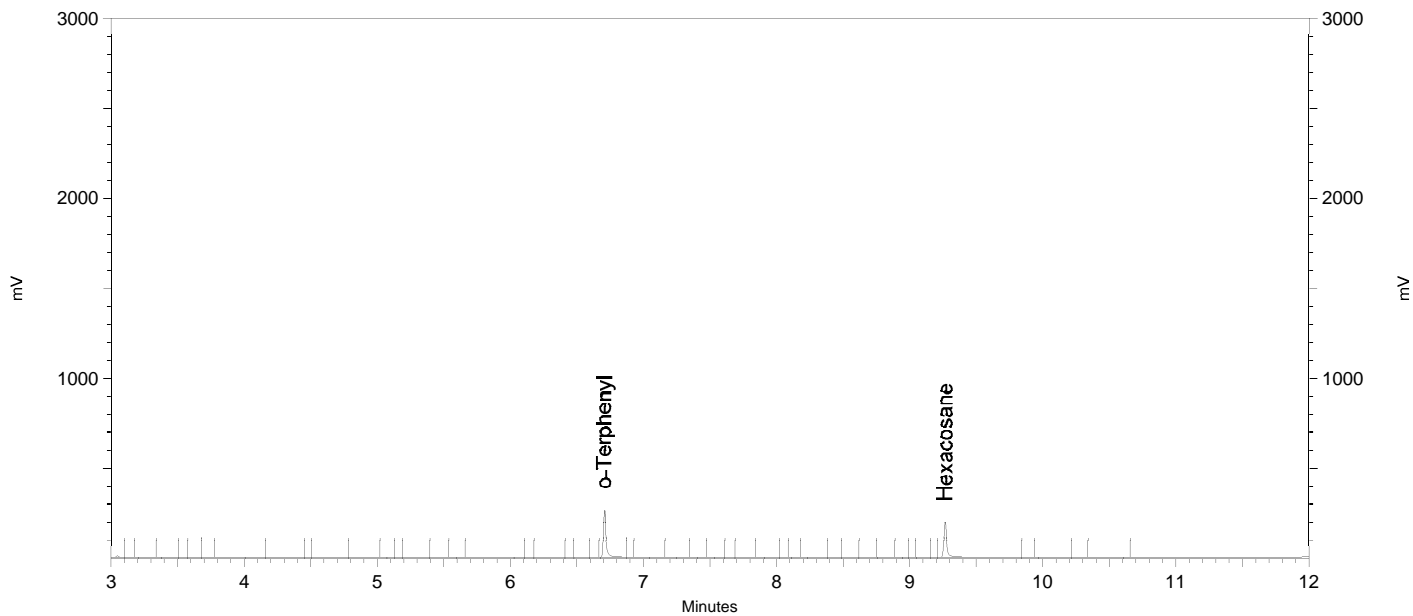
Sample Name: ical,s36499,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a011.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_242b.met
 Run Date: 8/30/2018 2:11:48 PM
 Analysis Date: 8/30/2018 5:42:45 PM
 Instrument: GC27A Vial: 11 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.707	2694547	4.878
Hexacosane	9.265	2270253	4.929



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

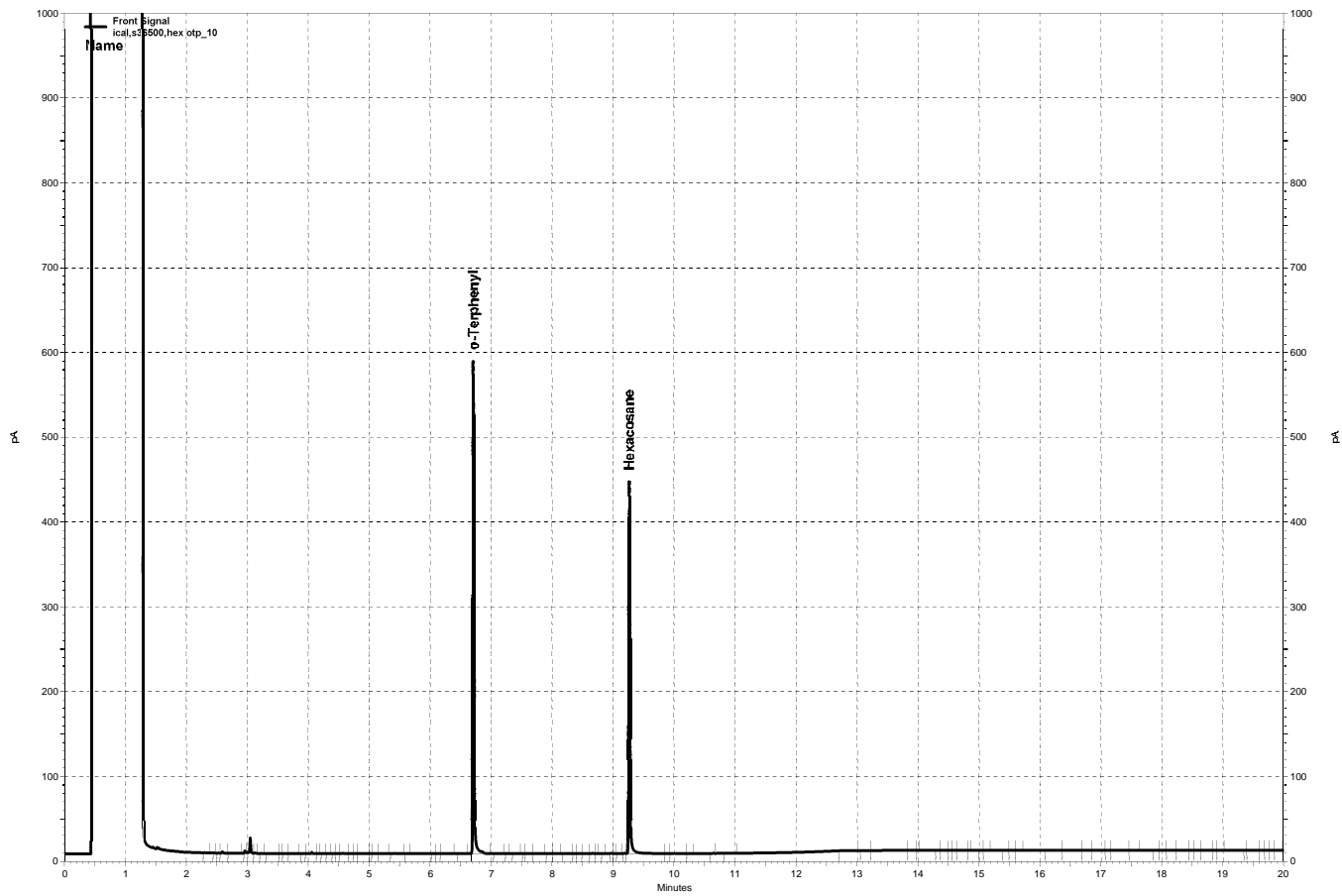
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a011.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```



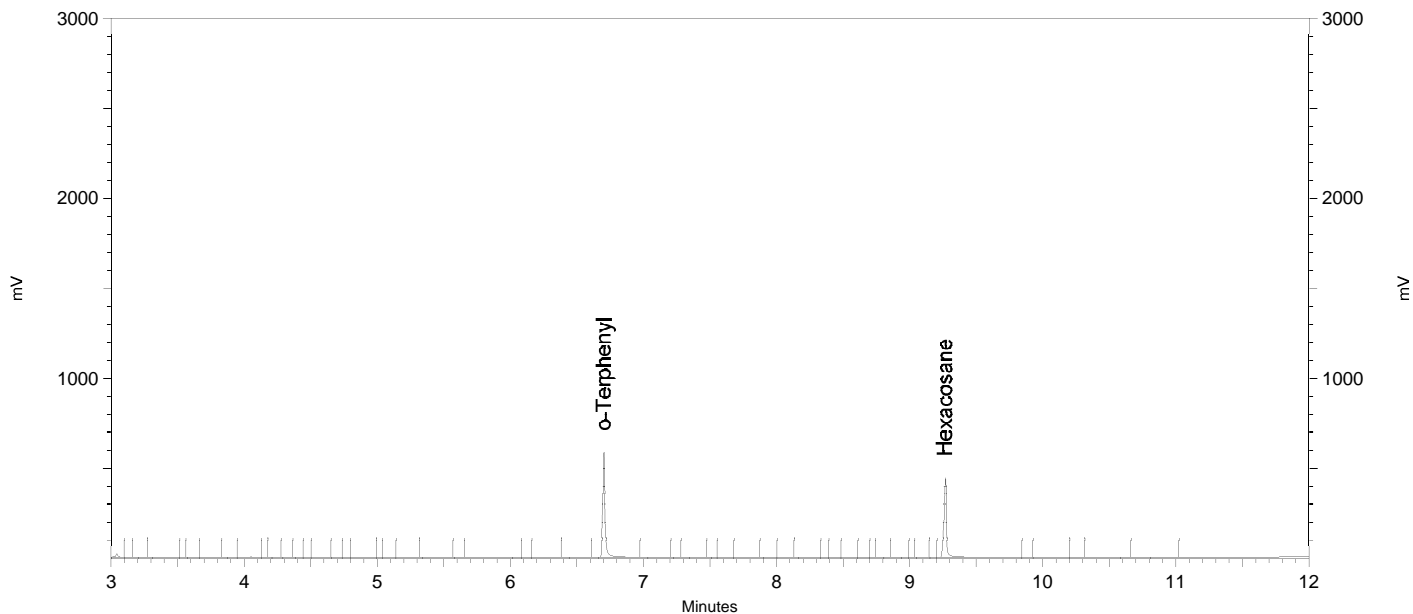
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a012.dat, Front Signal

Sample Name: ical,s36500,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a012.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_242b.met
 Run Date: 8/30/2018 2:36:56 PM
 Analysis Date: 8/30/2018 5:43:02 PM
 Instrument: GC27A Vial: 12 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.703	5590006	10.120
Hexacosane	9.263	4644581	10.084



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a012.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak        6.653  6.975   0
  
```

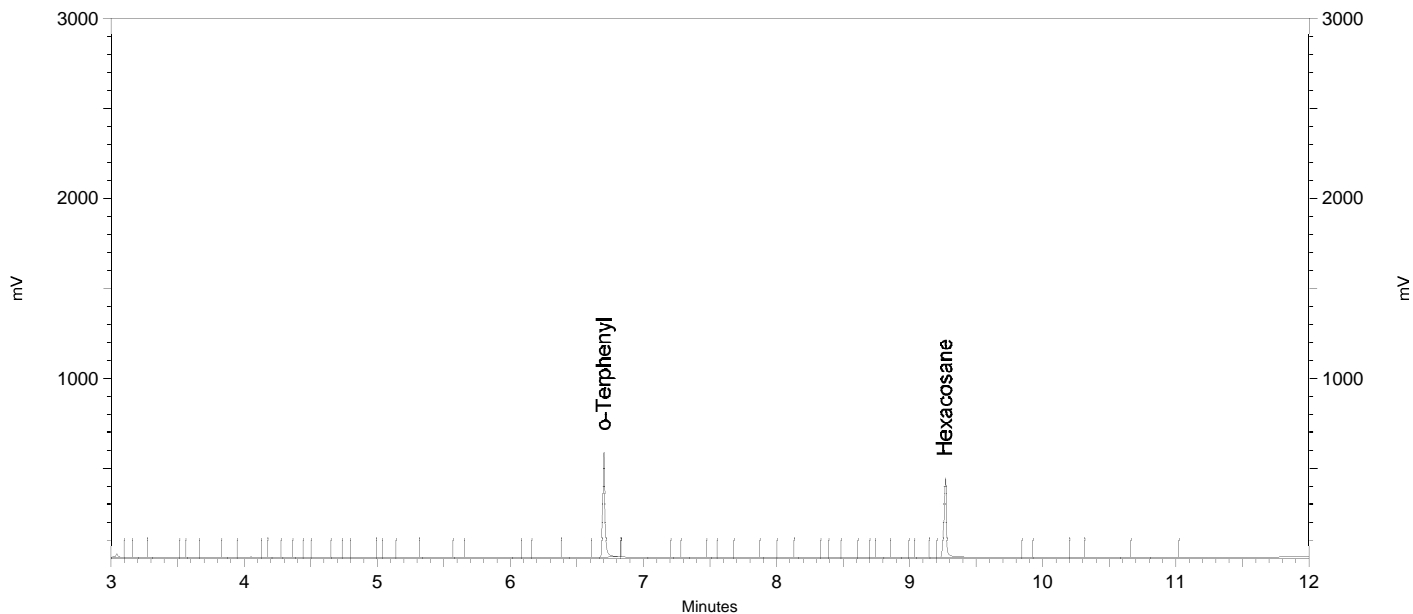
Sample Name: ical,s36500,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a012.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_242b.met
 Run Date: 8/30/2018 2:36:56 PM
 Analysis Date: 8/30/2018 5:42:58 PM
 Instrument: GC27A Vial: 12 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.703	5460567	9.886
Hexacosane	9.263	4644581	10.084



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

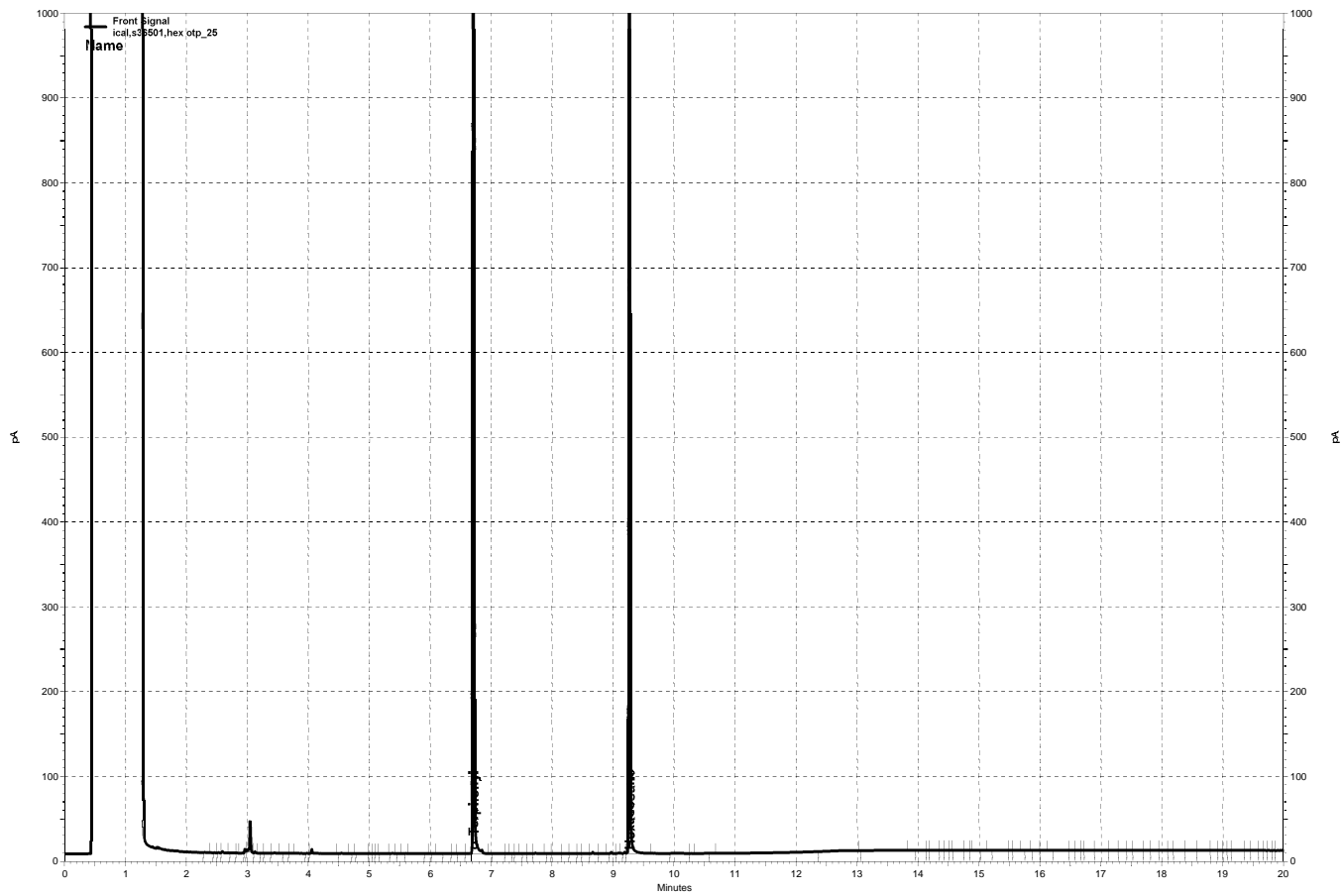
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a012.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a013.dat, Front Signal

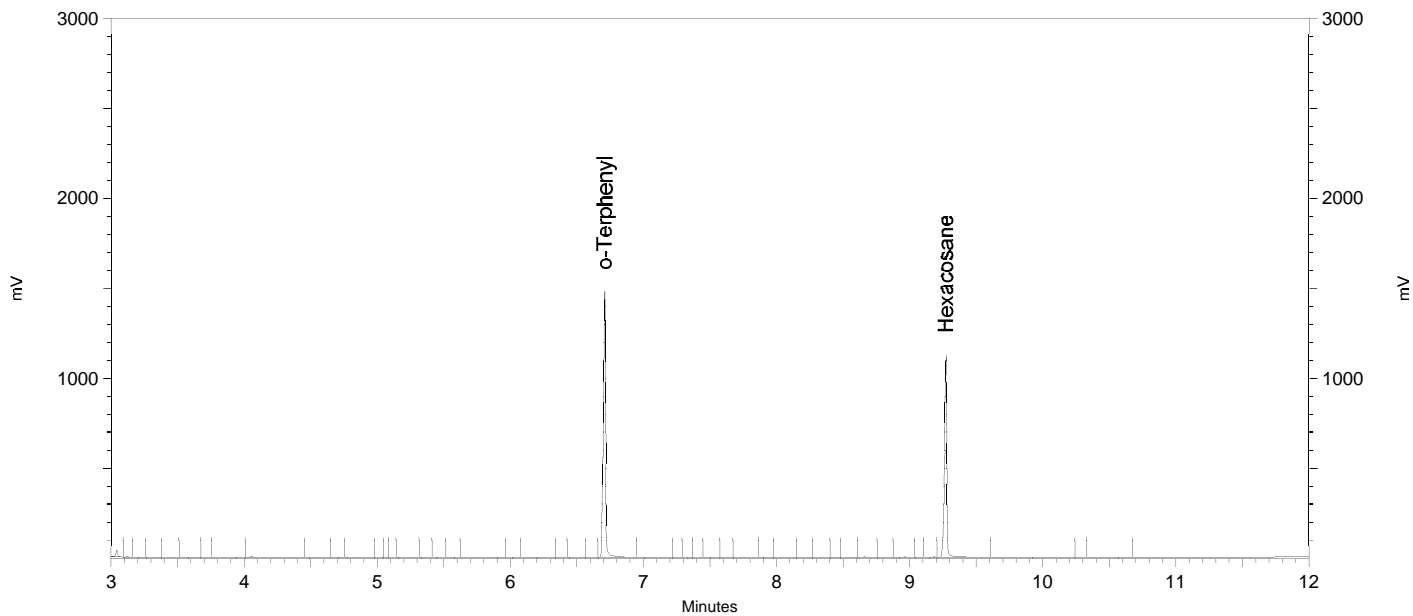
Sample Name: ical,s36501,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a013.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_242b.met
 Run Date: 8/30/2018 3:02:05 PM
 Analysis Date: 8/30/2018 5:43:16 PM
 Instrument: GC27A Vial: 13 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.710	13806127	24.994
Hexacosane	9.270	10992232	23.866



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

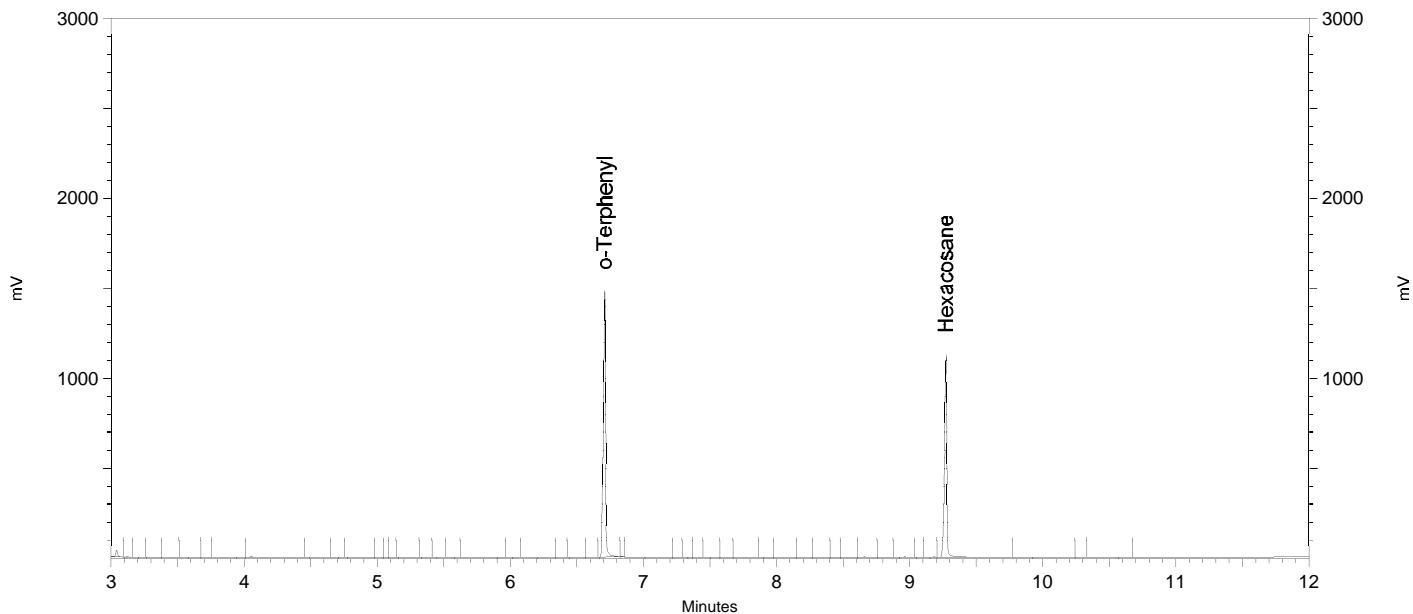
=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a013.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.66   6.954  0
Yes Manual Baseline     9.045   9.609  0
  
```


Sample Name: ical,s36501,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a013.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_242b.met
 Run Date: 8/30/2018 3:02:05 PM
 Analysis Date: 8/30/2018 5:43:12 PM
 Instrument: GC27A Vial: 13 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.710	13633527	24.682
Hexacosane	9.270	10967653	23.813



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

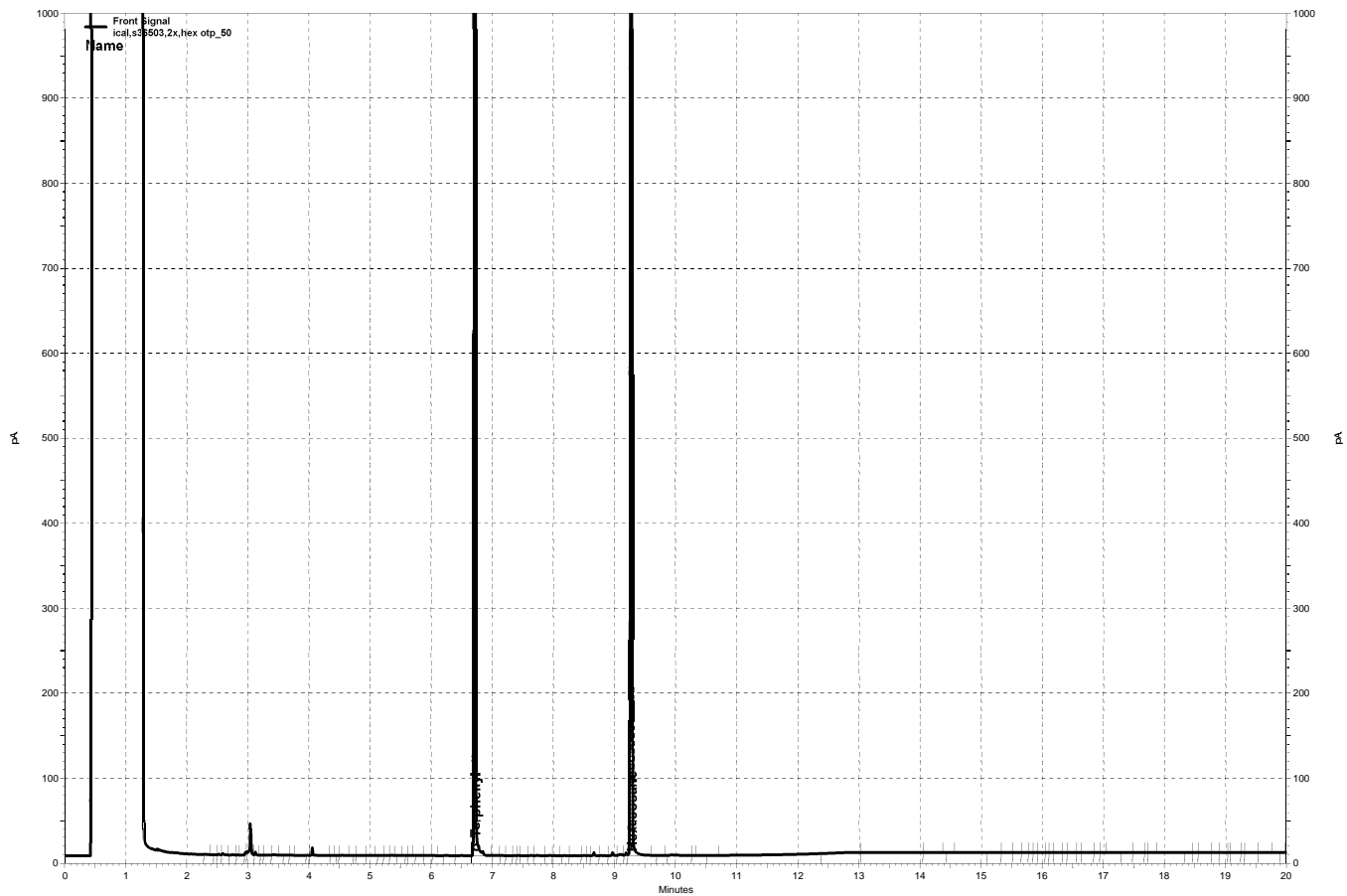
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a013.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```



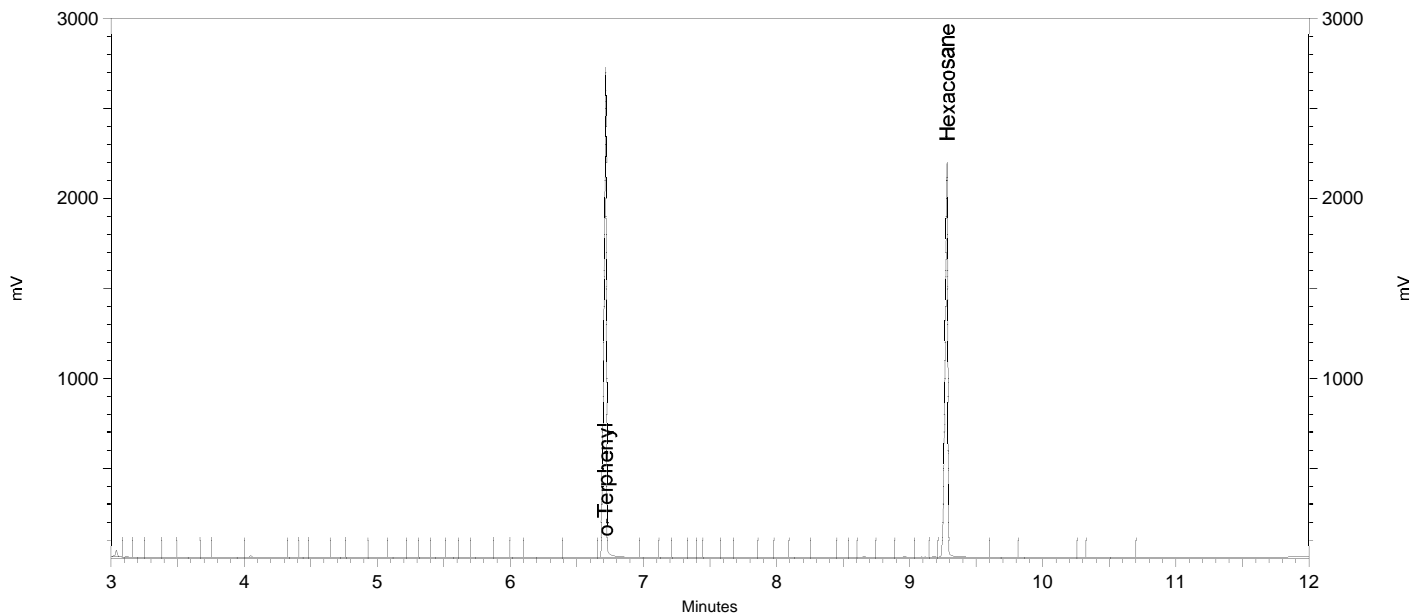
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a014.dat, Front Signal

Sample Name: ical,s36503,2x,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a014.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_242b.met
 Run Date: 8/30/2018 3:27:12 PM
 Analysis Date: 8/30/2018 5:43:34 PM
 Instrument: GC27A Vial: 14 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.718	27565457	49.904
Hexacosane	9.280	24251058	52.653



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a014.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.656	6.973	0
Yes	Manual Baseline	9.035	9.598	0

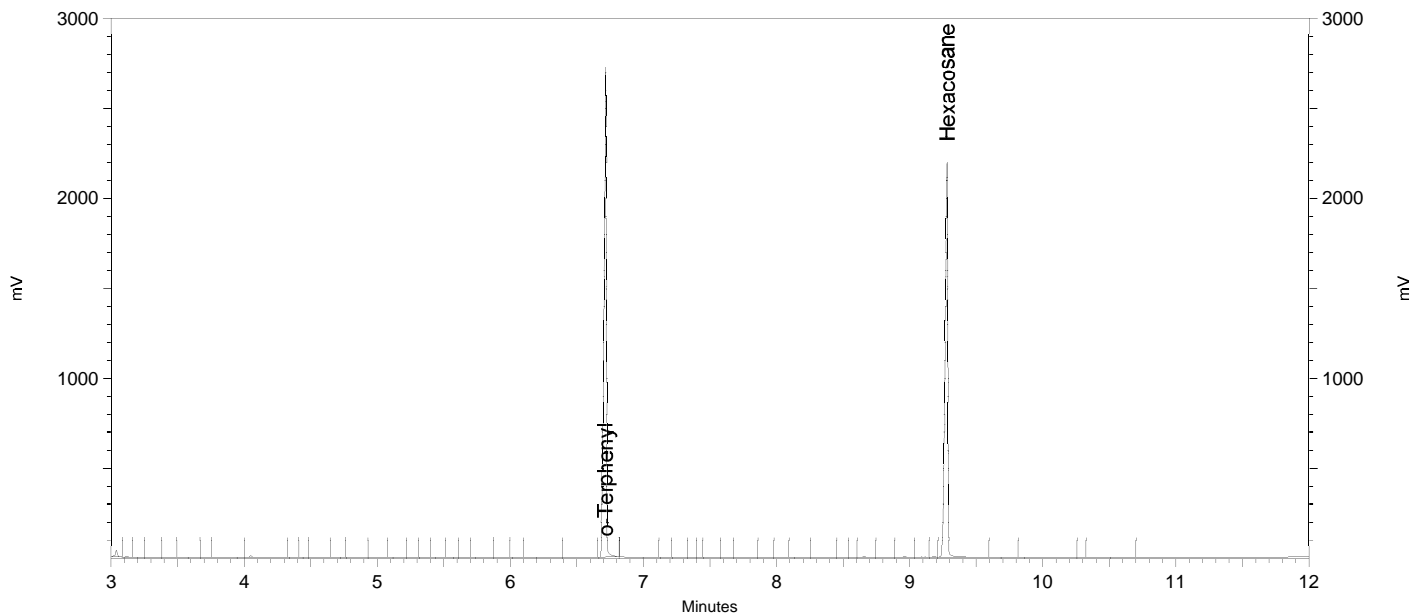
Sample Name: ical,s36503,2x,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a014.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-both\sur_242b.met
 Run Date: 8/30/2018 3:27:12 PM
 Analysis Date: 8/30/2018 5:43:26 PM
 Instrument: GC27A Vial: 14 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.718	27338301	49.493
Hexacosane	9.280	24186693	52.513



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

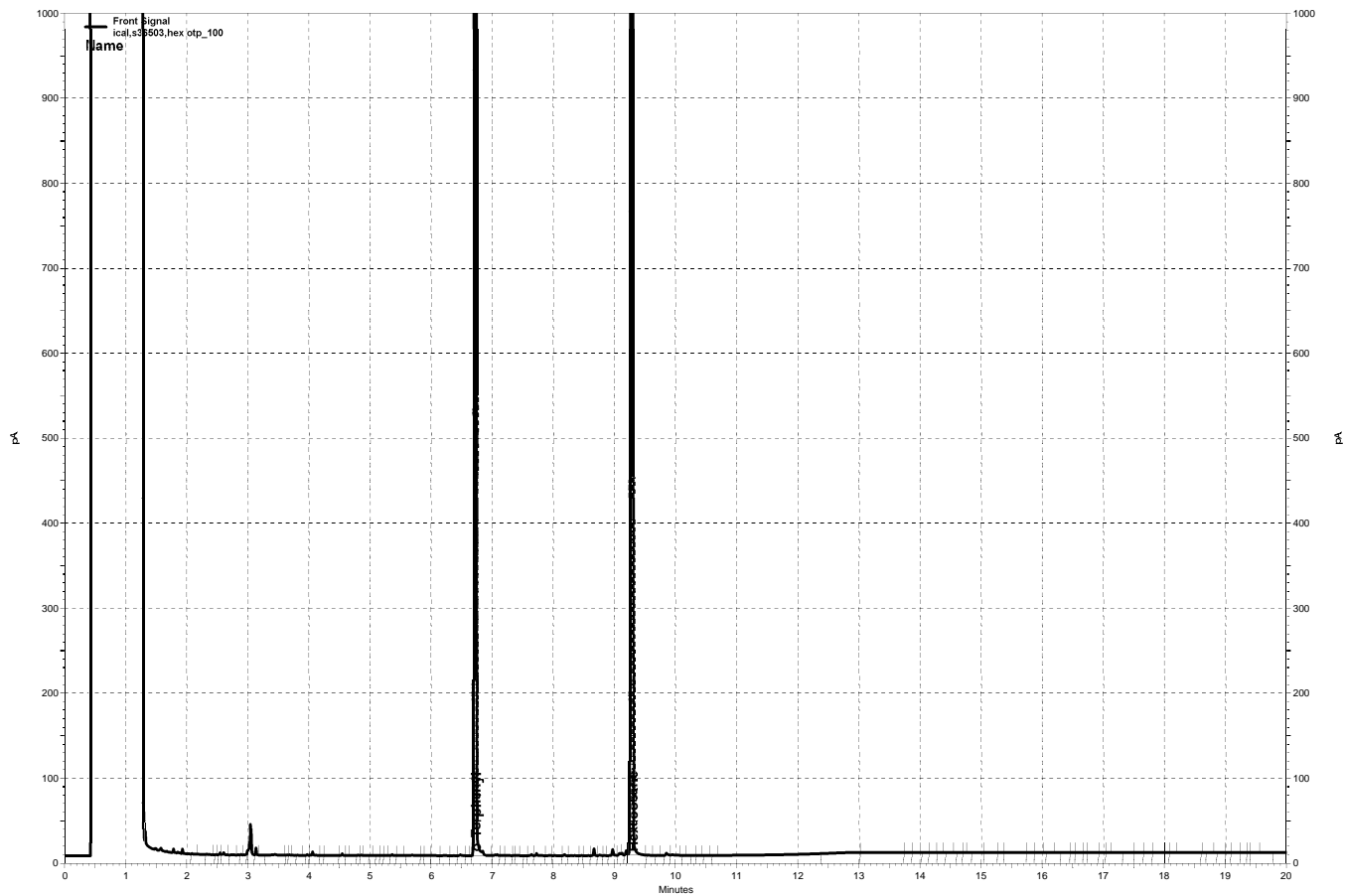
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a014.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a015.dat, Front Signal

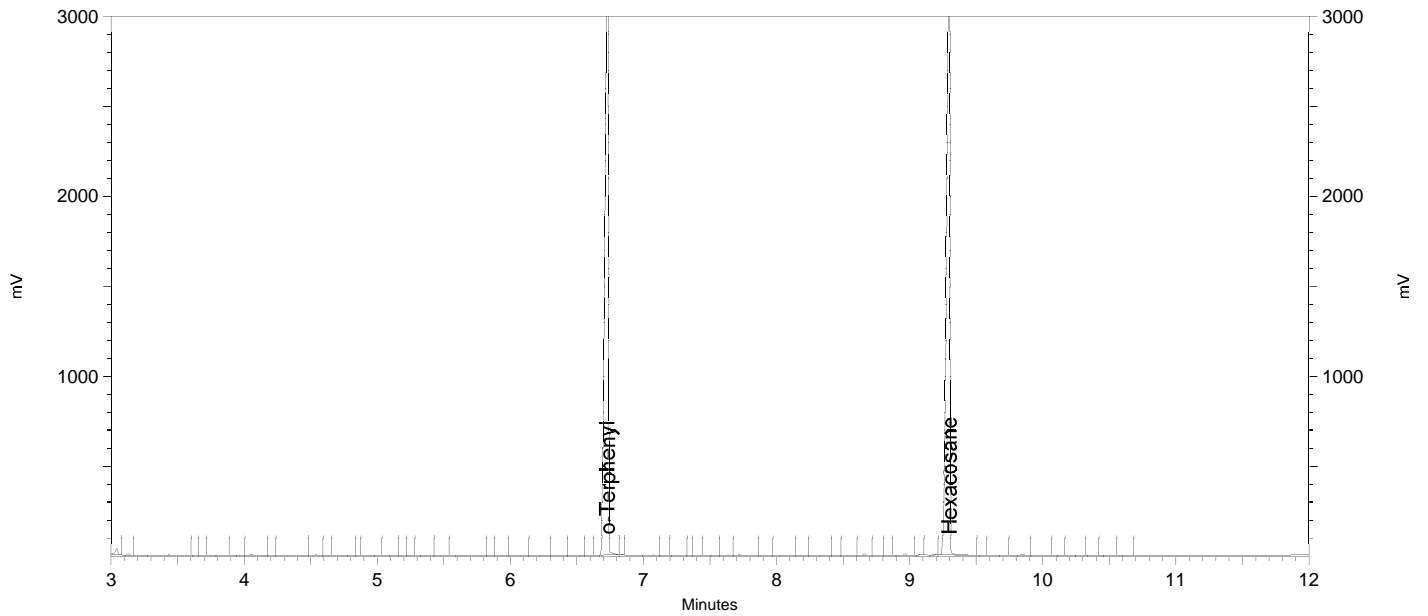
Sample Name: ical,s36503,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_242.met
 Run Date: 8/30/2018 3:52:25 PM
 Analysis Date: 8/30/2018 4:12:25 PM
 Instrument: GC27A Vial: 15 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.733	54953721	106.077
Hexacosane	9.295	48518613	169.554



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\242a015.dat_0B71.tmp
                        Start   Stop
Enabled Event Type      (Minutes) (Minutes) Value
-----
None
  
```

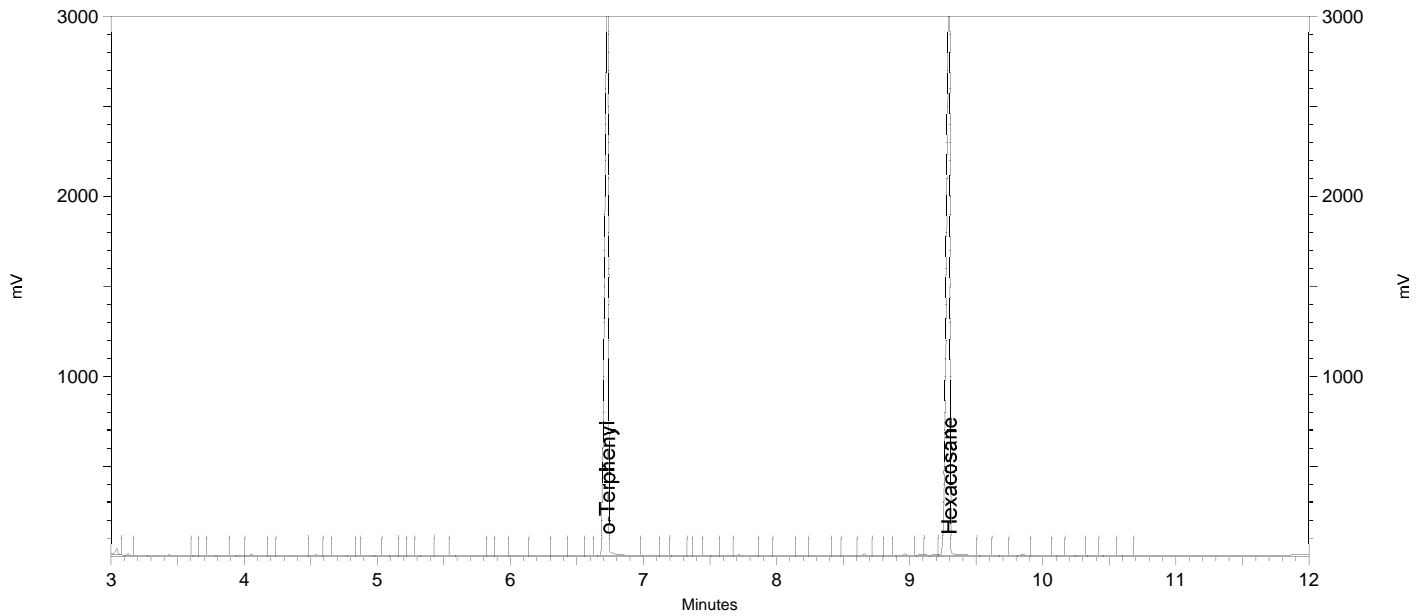
Sample Name: ical,s36503,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_242b.met
 Run Date: 8/30/2018 3:52:25 PM
 Analysis Date: 8/30/2018 5:43:50 PM
 Instrument: GC27A Vial: 15 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.733	55195325	99.924
Hexacosane	9.295	48614050	105.549



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

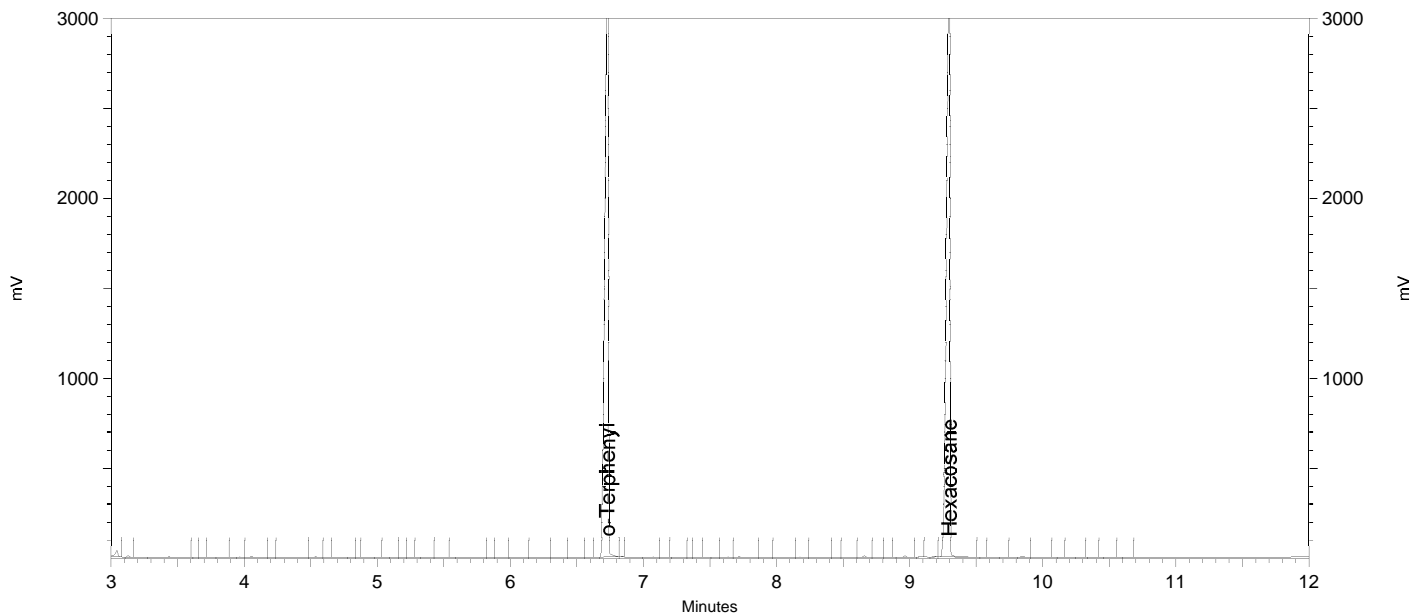
=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a015.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.651  6.979  0
Yes Manual Baseline     9.05   9.617  0
  
```


Sample Name: ical,s36503,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\242.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_242b.met
 Run Date: 8/30/2018 3:52:25 PM
 Analysis Date: 8/30/2018 5:43:46 PM
 Instrument: GC27A Vial: 15 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.733	54953721	99.487
Hexacosane	9.295	48518613	105.342



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\242a015.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

Carbon Marker Run

Inst : GC14B
 Seqnum : 228394938012
 Standards: S37406

Run Name : C8-C40
 File : 274_012

IDF : 1.0
 Time : 01-OCT-2018 16:54

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	2.037	+/- 4.5s (0.075m)	1.962 - 2.112
C12 - n-Dodecane	B	3.37	+/- 4.5s (0.075m)	3.295 - 3.445
C14 - n-Tetradecane	B	4.528	+/- 4.5s (0.075m)	4.453 - 4.603
C16 - n-Hexadecane	B	5.547	+/- 4.5s (0.075m)	5.472 - 5.622
C18 - n-Octadecane	B	6.452	+/- 4.5s (0.075m)	6.377 - 6.527
C20 - n-Eicosane	B	7.277	+/- 4.5s (0.075m)	7.202 - 7.352
C22 - n-Docosane	B	8.03	+/- 4.5s (0.075m)	7.955 - 8.105
C24 - n-Tetracosane	B	8.723	+/- 4.5s (0.075m)	8.648 - 8.798
C28 - n-Octacosane	B	9.96	+/- 4.5s (0.075m)	9.885 - 10.035
C30 - n-Triacontane	B	10.52	+/- 4.5s (0.075m)	10.445 - 10.595
C32 - n-Dotriacontane	B	11.042	+/- 4.5s (0.075m)	10.967 - 11.117
C34 - n-Tetracontane	B	11.535	+/- 4.5s (0.075m)	11.460 - 11.610
C36 - n-Hexatriacontane	B	11.998	+/- 4.5s (0.075m)	11.923 - 12.073
C40 - n-Tetracontane	B	13.092	+/- 4.5s (0.075m)	13.017 - 13.167

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	1.962	5.622
Diesel C10-C22	B	1.962	8.105
Diesel C10-C24	B	1.962	8.798
Diesel C10-C28	B	1.962	10.035
Diesel C12-C24	B	3.295	8.798
Diesel C12-C28	B	3.295	10.035
Diesel C16-C24	B	5.472	8.798
Motor Oil C22-C32	B	7.955	11.117
Motor Oil C24-C36	B	8.648	12.073
Motor Oil C28-C40	B	9.885	13.167
Bunker C C10-C40	B	1.962	13.167
Bunker C C12-C40	B	3.295	13.167
Diesel C10-C14	B	1.962	4.603
Diesel C14-C24	B	4.453	8.798

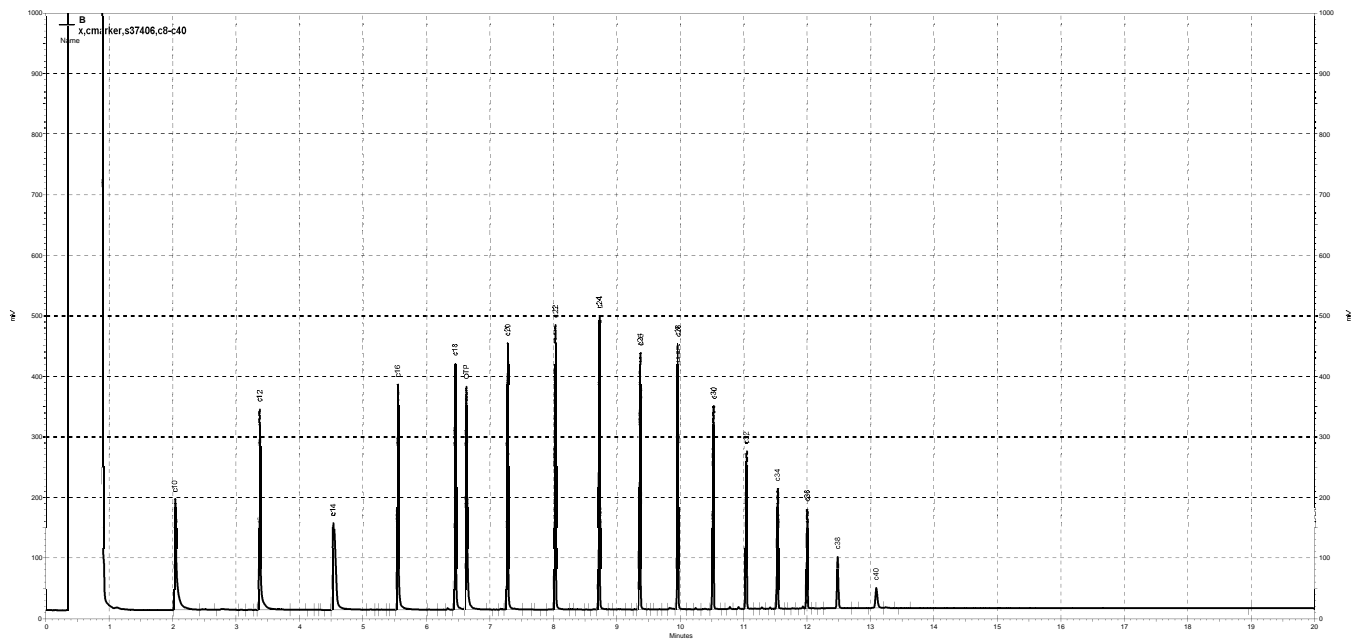
EZChrom method retention times successfully validated.

Analyst: WA1

Date: 10/01/18 *

Reviewer: EAH

Date: 10/01/18 *



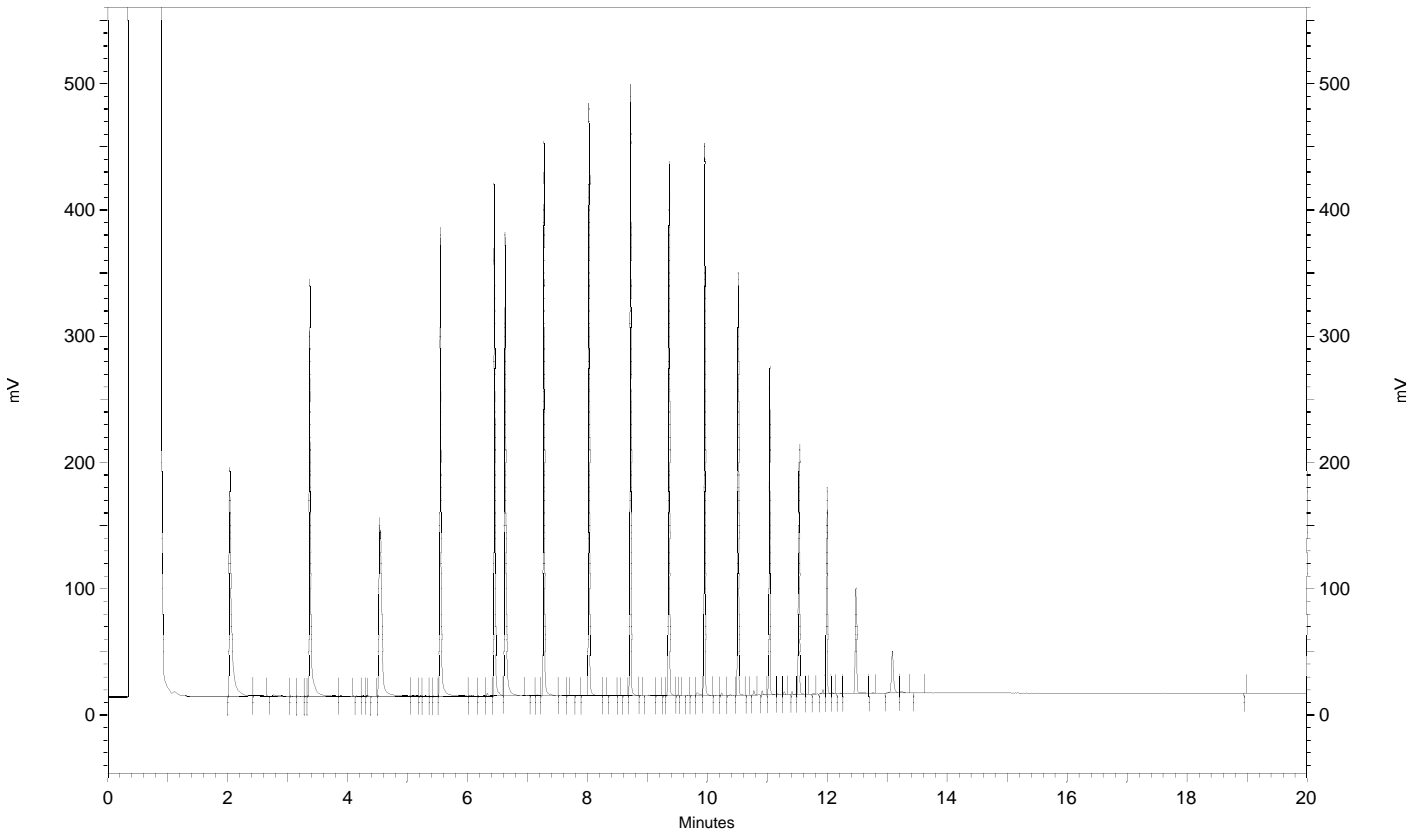
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\274b012, B

Sample Name: x,cmarker,s37406,c8-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\274b012
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2018\274.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\cm_274.met
Run Date: 10/1/2018 4:54:42 PM
Analysis Date: 10/2/2018 11:58:26 AM
Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

GC14B

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	2.037	469449	0.000
c12	3.370	487430	0.000
c14	4.528	502927	0.000
c16	5.547	520669	0.000
c18	6.452	517147	0.000
OTP	6.627	566612	0.000
c20	7.277	536791	0.000
c22	8.030	552576	0.000
c24	8.723	524563	0.000
c26	9.367	511401	0.000
c28	9.960	461349	0.000
c30	10.520	382127	0.000
c32	11.042	300570	0.000
c34	11.535	240821	0.000
c36	11.998	179567	0.000
c38	12.483	130541	0.000
c40	13.092	76176	0.000



Sample Name: x,cmarker,s37406,c8-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\274b012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\274.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
 Run Date: 10/1/2018 4:54:42 PM
 Analysis Date: 10/1/2018 6:49:45 PM
 Instrument: GC14B Vial: 12 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2038067	45.014
DSL:10-14	1502283	0.000
DSL:10-22	4276182	97.330
DSL:10-24	4812304	106.941
DSL:10-28	5812635	127.650
DSL:12-24	4312111	111.411
DSL:12-28	5312442	135.382
DSL:14-24	3805881	0.000
DSL:16-24	3288189	160.754
MO:22-32	2793401	96.687
MO:24-36	2670985	89.890
MO:28-40	1825656	96.257
BUNKC:10-40	7170163	349.429
BUNKC:12-40	6669970	334.664

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

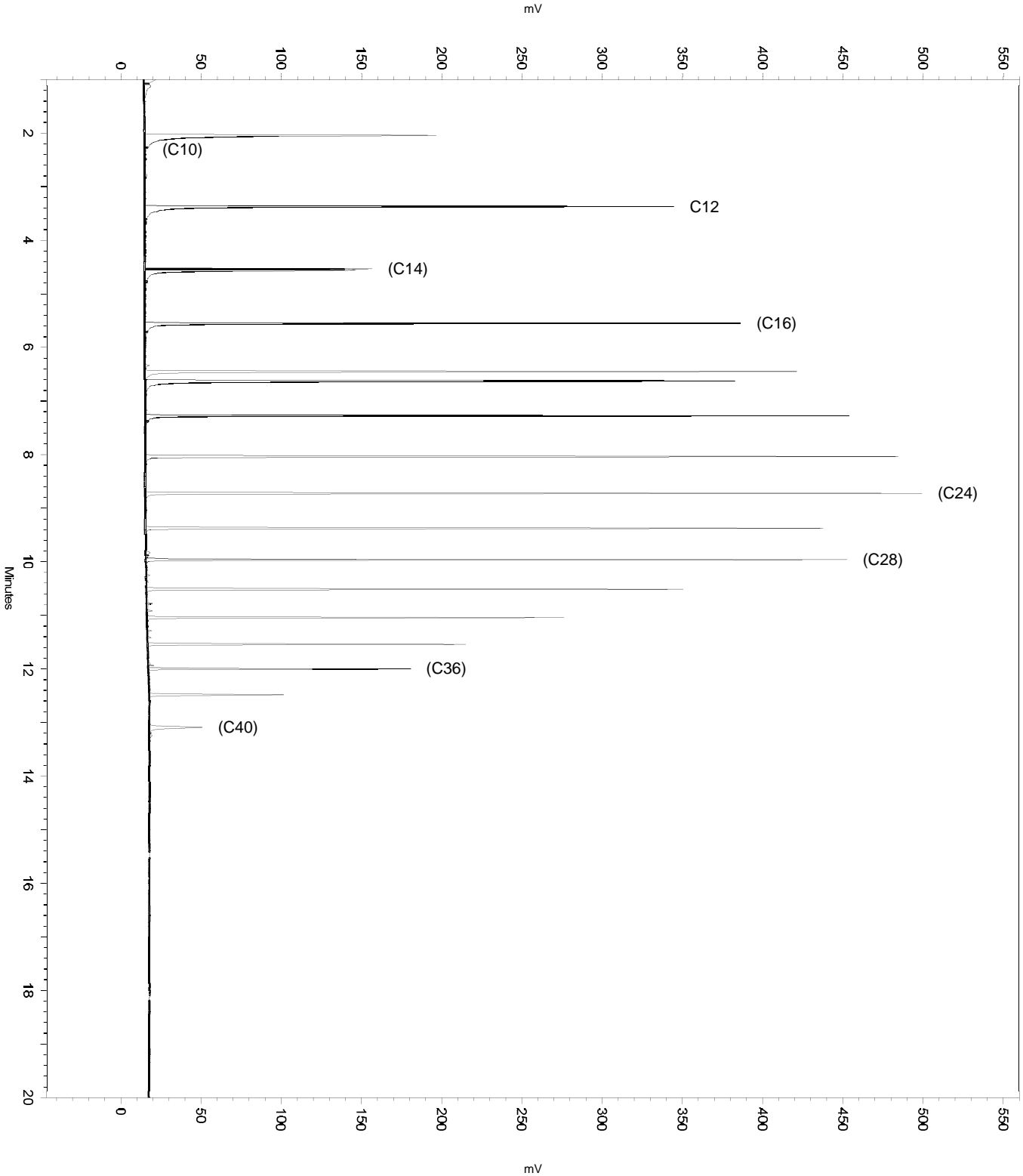
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\274b012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: x,cmarker,s37406,c8-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\274b012
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\274.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
Run Date: 10/1/2018 4:54:42 PM
Analysis Date: 10/1/2018 6:49:45 PM
Instrument: GC14B Vial: 12 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



Carbon Marker Run

Inst : GC26A
 Seqnum : 868415085016
 Standards: S38220

Run Name : C8-C40
 File : 288a016

IDF : 1.0
 Time : 15-OCT-2018 14:41

Analyte	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	1.702	+/- 4.5s (0.075m)	1.627 - 1.777
C12 - n-Dodecane	2.858	+/- 4.5s (0.075m)	2.783 - 2.933
C14 - n-Tetradecane	3.915	+/- 4.5s (0.075m)	3.840 - 3.990
C16 - n-Hexadecane	4.82	+/- 4.5s (0.075m)	4.745 - 4.895
C18 - n-Octadecane	5.633	+/- 4.5s (0.075m)	5.558 - 5.708
C20 - n-Eicosane	6.382	+/- 4.5s (0.075m)	6.307 - 6.457
C22 - n-Docosane	7.062	+/- 4.5s (0.075m)	6.987 - 7.137
C24 - n-Tetracosane	7.693	+/- 4.5s (0.075m)	7.618 - 7.768
C28 - n-Octacosane	8.823	+/- 4.5s (0.075m)	8.748 - 8.898
C30 - n-Triacontane	9.332	+/- 4.5s (0.075m)	9.257 - 9.407
C32 - n-Dotriacontane	9.812	+/- 4.5s (0.075m)	9.737 - 9.887
C34 - n-Tetratriacontane	10.265	+/- 4.5s (0.075m)	10.190 - 10.340
C36 - n-Hexatriacontane	10.69	+/- 4.5s (0.075m)	10.615 - 10.765
C40 - n-Tetracontane	11.482	+/- 4.5s (0.075m)	11.407 - 11.557

Carbon Range	Range Start	Range Stop
JP-5 C10-C16	1.627	4.895
Diesel C10-C22	1.627	7.137
Diesel C10-C24	1.627	7.768
Diesel C10-C28	1.627	8.898
Diesel C12-C24	2.783	7.768
Diesel C12-C28	2.783	8.898
Diesel C16-C24	4.745	7.768
Motor Oil C22-C32	6.987	9.887
Motor Oil C24-C36	7.618	10.765
Motor Oil C28-C40	8.748	11.557
Bunker C C10-C40	1.627	11.557
Bunker C C12-C40	2.783	11.557
Diesel C10-C14	1.627	3.990
Diesel C14-C24	3.840	7.768

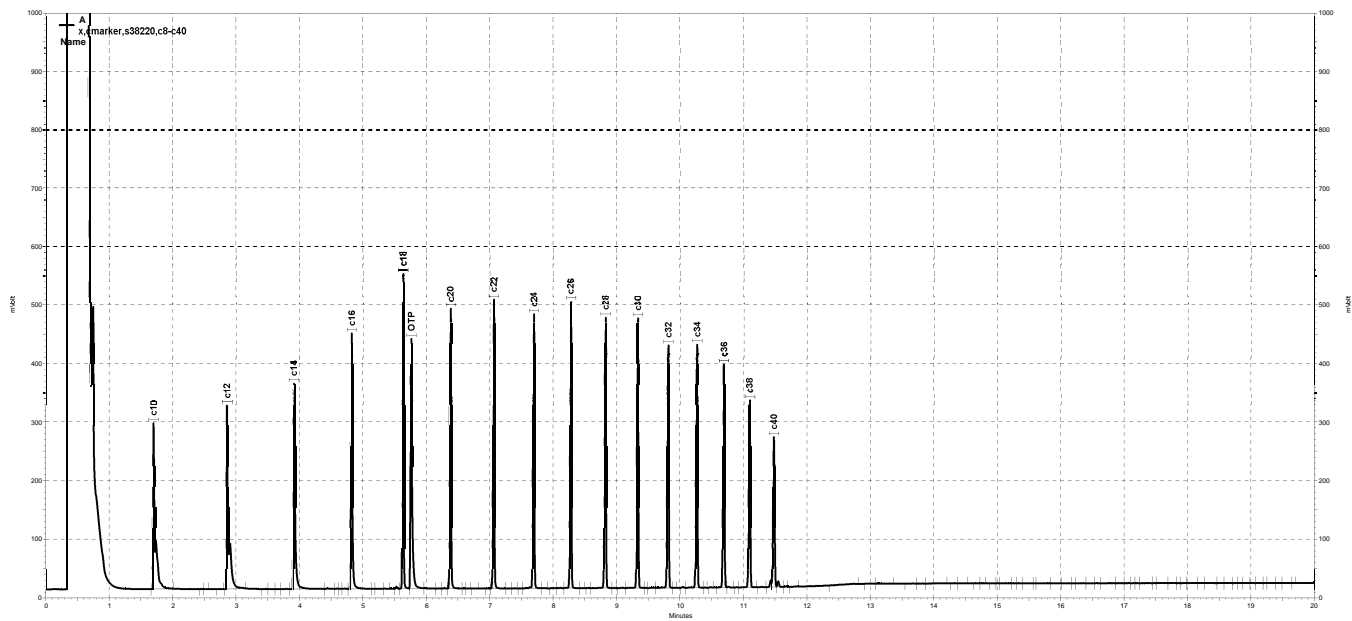
EZChrom method retention times successfully validated.

Analyst: WA1

Date: 10/15/18

Reviewer: EAH

Date: 10/15/18



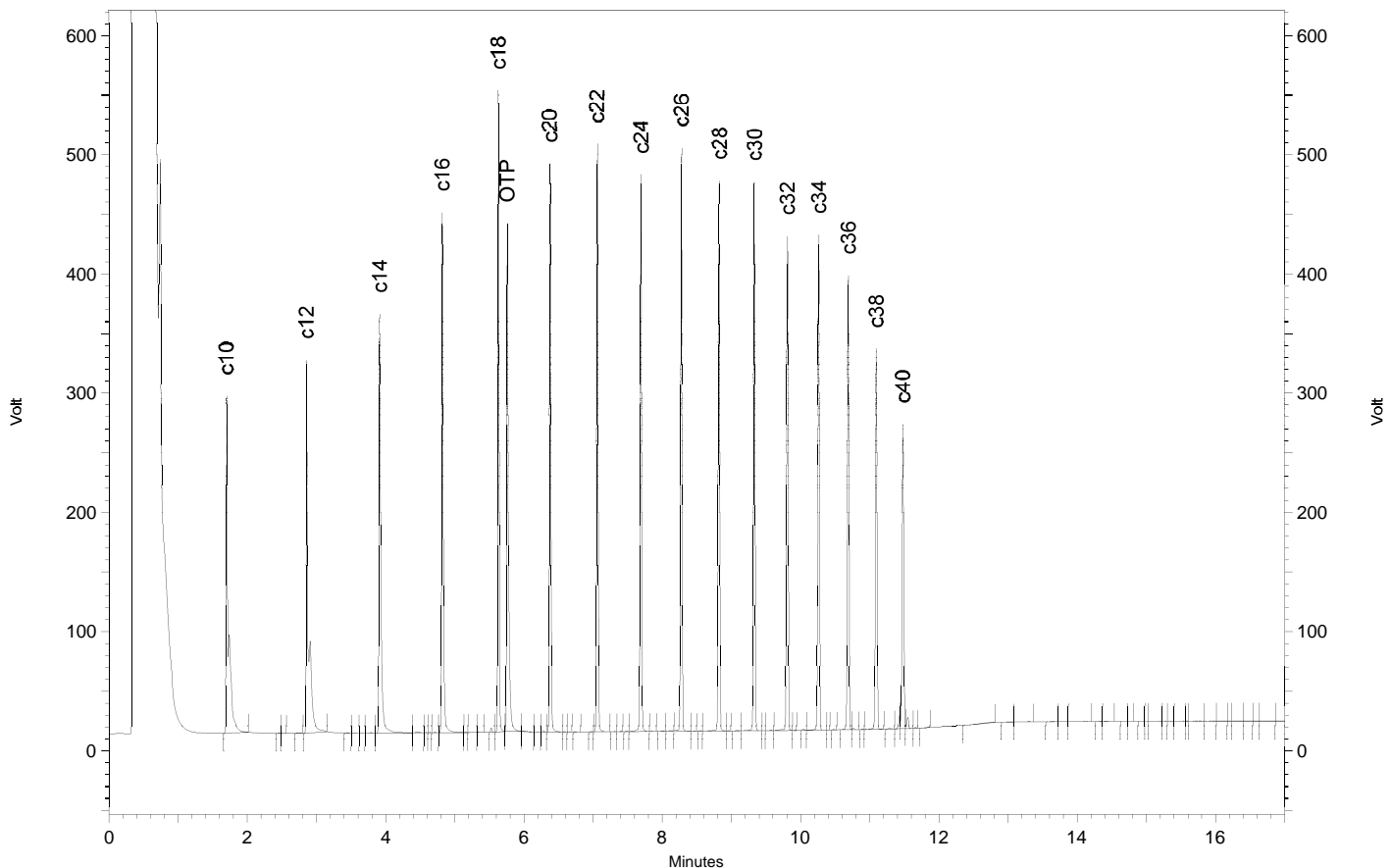
\\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a016, A

Sample Name: x,cmarker,s38220,c8-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a016
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\ca-m288.met
 Run Date: 10/15/2018 2:41:17 PM
 Analysis Date: 10/15/2018 5:15:06 PM
 Instrument: GC26A Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	1.702	611991	0.000
c12	2.858	618781	0.000
c14	3.915	644372	0.000
c16	4.820	648201	0.000
c18	5.633	637618	0.000
OTP	5.760	711599	0.000
c20	6.382	649602	0.000
c22	7.062	661988	0.000
c24	7.693	651414	0.000
c26	8.278	650594	0.000
c28	8.823	658877	0.000
c30	9.332	655802	0.000
c32	9.812	642816	0.000
c34	10.265	620590	0.000
c36	10.690	586265	0.000
c38	11.097	513991	0.000
c40	11.482	422370	0.000



Sample Name: x,cmarker,s38220,c8-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a016
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH285.met
 Run Date: 10/15/2018 2:41:17 PM
 Analysis Date: 10/15/2018 5:16:40 PM
 Instrument: GC26A Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	1940059	41.713
DSL:10-14	1279054	58.791
DSL:10-22	4652194	84.139
DSL:10-24	5309633	93.326
DSL:10-28	6633650	115.101
DSL:12-24	4680519	96.575
DSL:12-28	6004536	122.030
DSL:14-24	4030579	109.369
DSL:16-24	4017175	153.278
MO:22-32	3952846	90.688
MO:24-36	4498497	103.413
MO:28-40	4157246	157.827
BUNKC:10-40	10133658	323.174
BUNKC:12-40	9504544	311.238

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

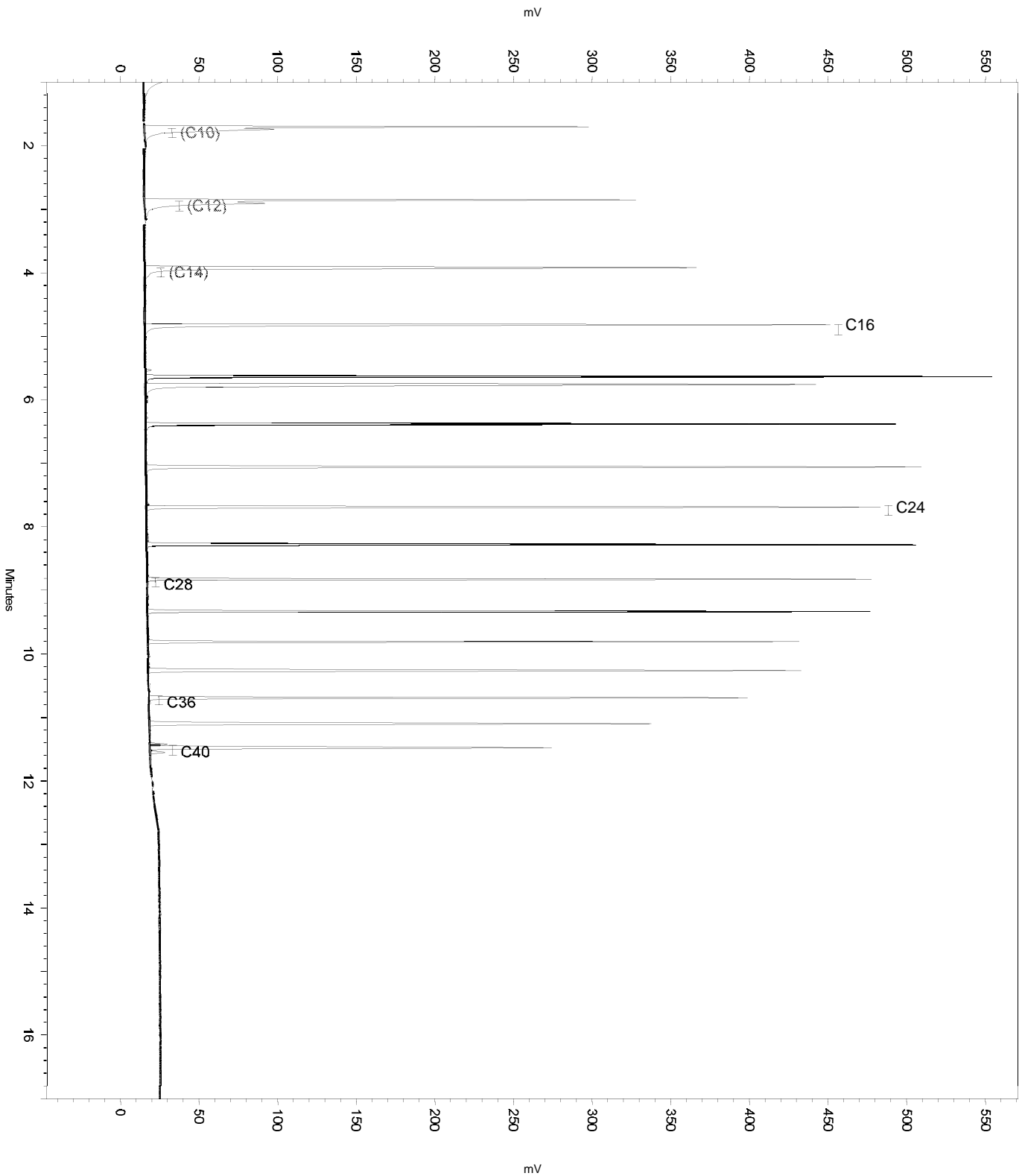
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	1.648	2.016	0
Yes	Manual Peak	2.817	3.156	0
Yes	Manual Baseline	10.576	10.842	0
Yes	Manual Baseline	11.366	11.627	0

Sample Name: x,cmarker,s38220,c8-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a016
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH285.met
Run Date: 10/15/2018 2:41:17 PM
Analysis Date: 10/15/2018 5:16:40 PM
Instrument: GC26A Vial: 16 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

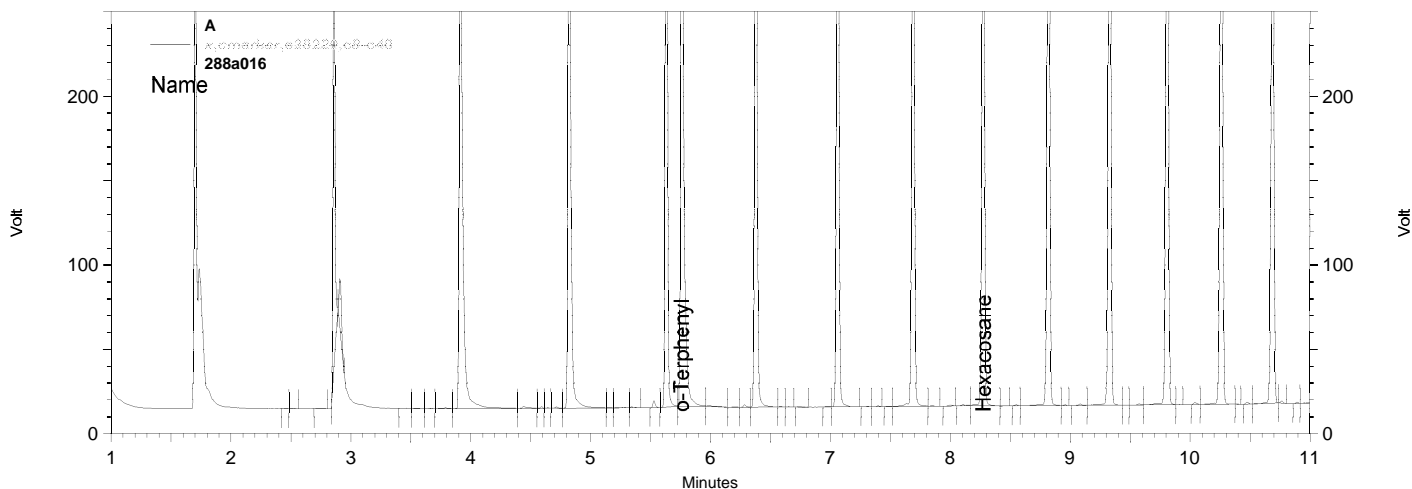


Sample Name: x,cmarker,s38220,c8-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a016
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 2:41:17 PM
 Analysis Date: 10/15/2018 3:01:28 PM
 Instrument: GC26A Vial: 16 Operator: lims2k3\teh
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.760	711599	10.505
Hexacosane	8.278	650594	11.863



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met x,cmarker,s38220,c8-c40

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

=====

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10108\288a016_1C1B.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Carbon Marker Run

Inst : GC27A
 Seqnum : 978405005007
 Standards: S37406

Run Name : C8-C40
 File : 281a007

IDF : 1.0
 Time : 08-OCT-2018 12:22

Analyte	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	2.39	+/- 4.5s (0.075m)	2.315 - 2.465
C12 - n-Dodecane	3.537	+/- 4.5s (0.075m)	3.462 - 3.612
C14 - n-Tetradecane	4.593	+/- 4.5s (0.075m)	4.518 - 4.668
C16 - n-Hexadecane	5.527	+/- 4.5s (0.075m)	5.452 - 5.602
C18 - n-Octadecane	6.365	+/- 4.5s (0.075m)	6.290 - 6.440
C20 - n-Eicosane	7.132	+/- 4.5s (0.075m)	7.057 - 7.207
C22 - n-Docosane	7.837	+/- 4.5s (0.075m)	7.762 - 7.912
C24 - n-Tetracosane	8.483	+/- 4.5s (0.075m)	8.408 - 8.558
C28 - n-Octacosane	9.647	+/- 4.5s (0.075m)	9.572 - 9.722
C30 - n-Triacontane	10.173	+/- 4.5s (0.075m)	10.098 - 10.248
C32 - n-Dotriacontane	10.667	+/- 4.5s (0.075m)	10.592 - 10.742
C34 - n-Tetratriacontane	11.132	+/- 4.5s (0.075m)	11.057 - 11.207
C36 - n-HexatriacontaneC36	11.572	+/- 4.5s (0.075m)	11.497 - 11.647
C40 - n-Tetracontane	12.398	+/- 4.5s (0.075m)	12.323 - 12.473

Carbon Range	Range Start	Range Stop
JP-5 C10-C16	2.315	5.602
Diesel C10-C22	2.315	7.912
Diesel C10-C24	2.315	8.558
Diesel C10-C28	2.315	9.722
Diesel C12-C24	3.462	8.558
Diesel C12-C28	3.462	9.722
Diesel C16-C24	5.452	8.558
Motor Oil C22-C32	7.762	10.742
Motor Oil C24-C36	8.408	11.647
Motor Oil C28-C40	9.572	12.473
Bunker C C10-C40	2.315	12.473
Bunker C C12-C40	3.462	12.473
Diesel C10-C14	2.315	4.668
Diesel C14-C24	4.518	8.558

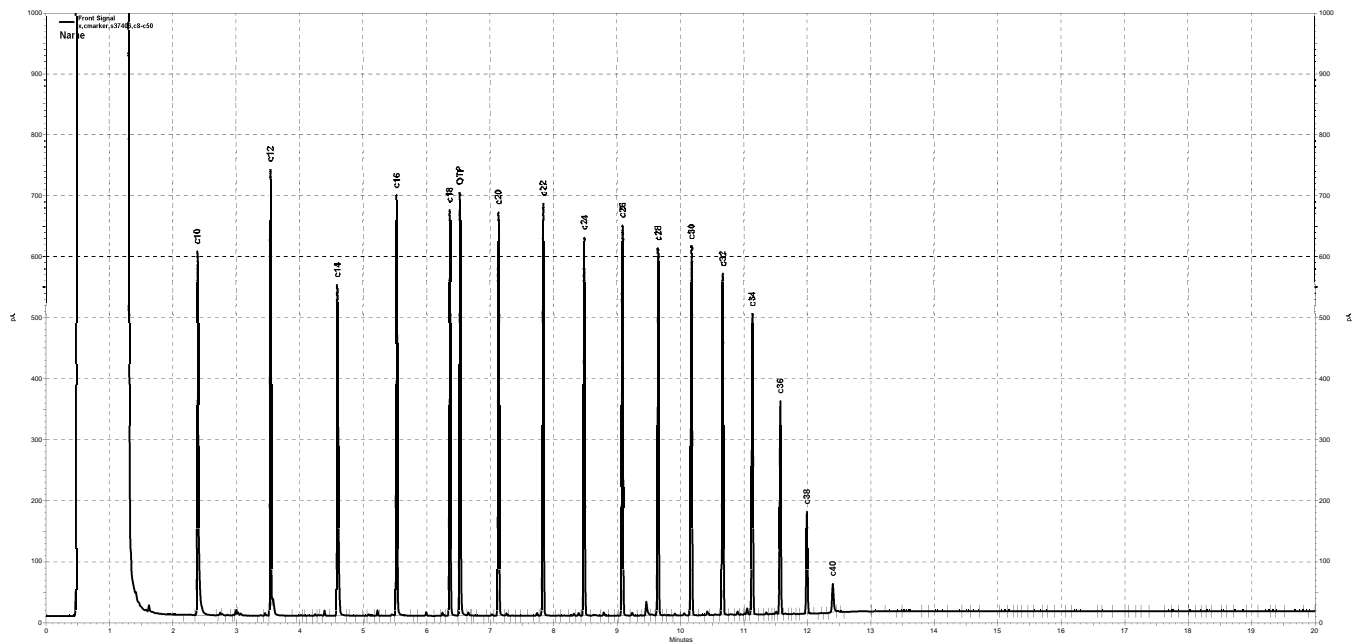
EZChrom method retention times successfully validated.

Analyst: WA1

Date: 10/08/18

Reviewer: EAH

Date: 10/08/18



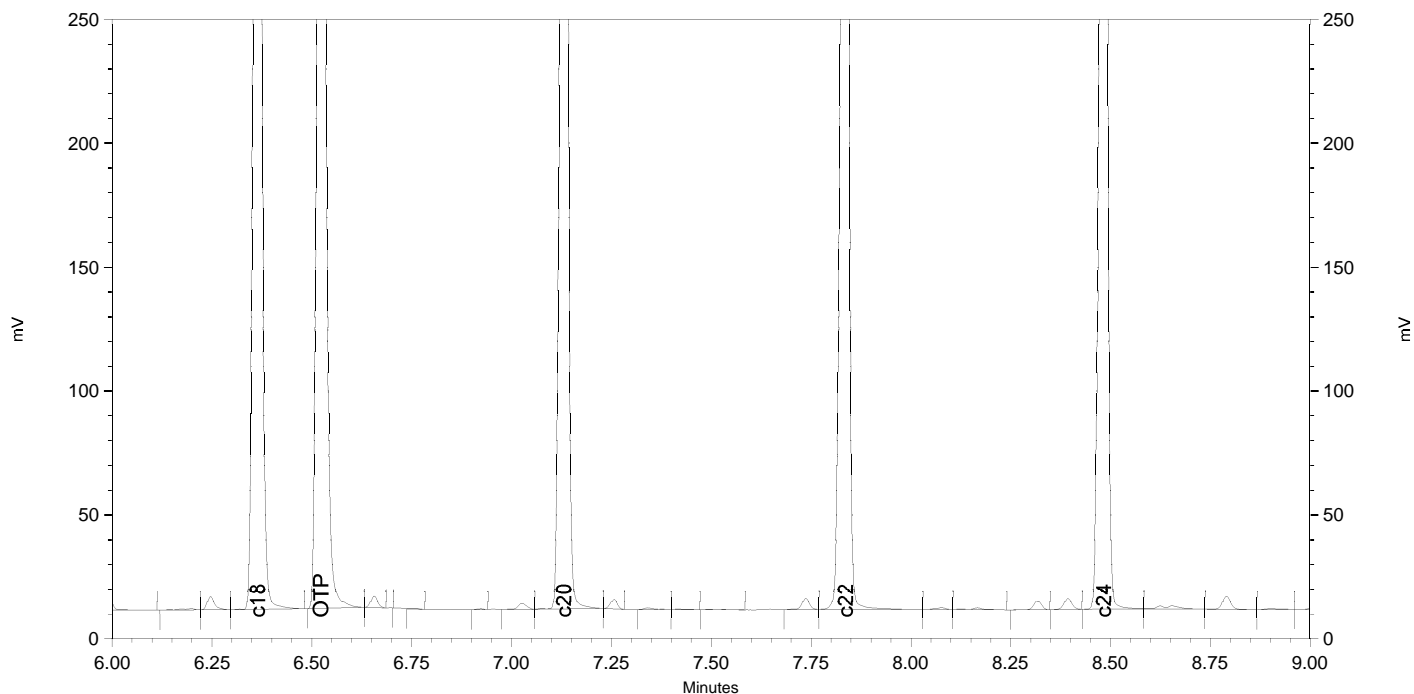
— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\281a007.dat, Front Signal

Sample Name: x,cmarker,s37406,c8-c50
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\281a007.dat
Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\281.seq
Software Version 3.3.1 SP1
Method Name: G:\ezchrom\Projects\GC27\Method\cm_281.met
Run Date: 10/8/2018 12:22:36 PM
Analysis Date: 10/8/2018 1:46:11 PM
Instrument: GC27A Vial: 7 Operator: teh4
Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	2.390	6226464	0.000
c12	3.537	5419532	0.000
c14	4.593	6125079	0.000
c16	5.527	6163317	0.000
c18	6.365	6086820	0.000
OTP	6.523	6703597	0.000
c20	7.132	6069711	0.000
c22	7.837	6168564	0.000
c24	8.483	5855770	0.000
c26	9.087	5928053	0.000
c28	9.647	5959559	0.000
c30	10.173	5866947	0.000
c32	10.667	5581739	0.000
c34	11.132	5152810	0.000
c36	11.572	3644025	0.000
c38	11.990	1804989	0.000
c40	12.398	640017	0.000



Sample Name: x,cmarker,s37406,c8-c50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\281a007.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\281.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_264.met
 Run Date: 10/8/2018 12:22:36 PM
 Analysis Date: 10/8/2018 1:46:34 PM
 Instrument: GC27A Vial: 7 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		19393614	40.943
DSL:10-14		12950472	72.851
DSL:10-22		45016027	99.355
DSL:10-24		51065524	109.723
DSL:10-28		63548144	134.691
DSL:12-24		44921321	114.717
DSL:12-28		57403941	144.236
DSL:14-24		38130352	125.783
DSL:16-24		31671910	151.590
MO:22-32		30244560	94.548
MO:24-36		33451782	103.413
MO:28-40		23725221	121.454
BUNKC:10-40		87240824	431.735
BUNKC:12-40		81096621	413.973

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

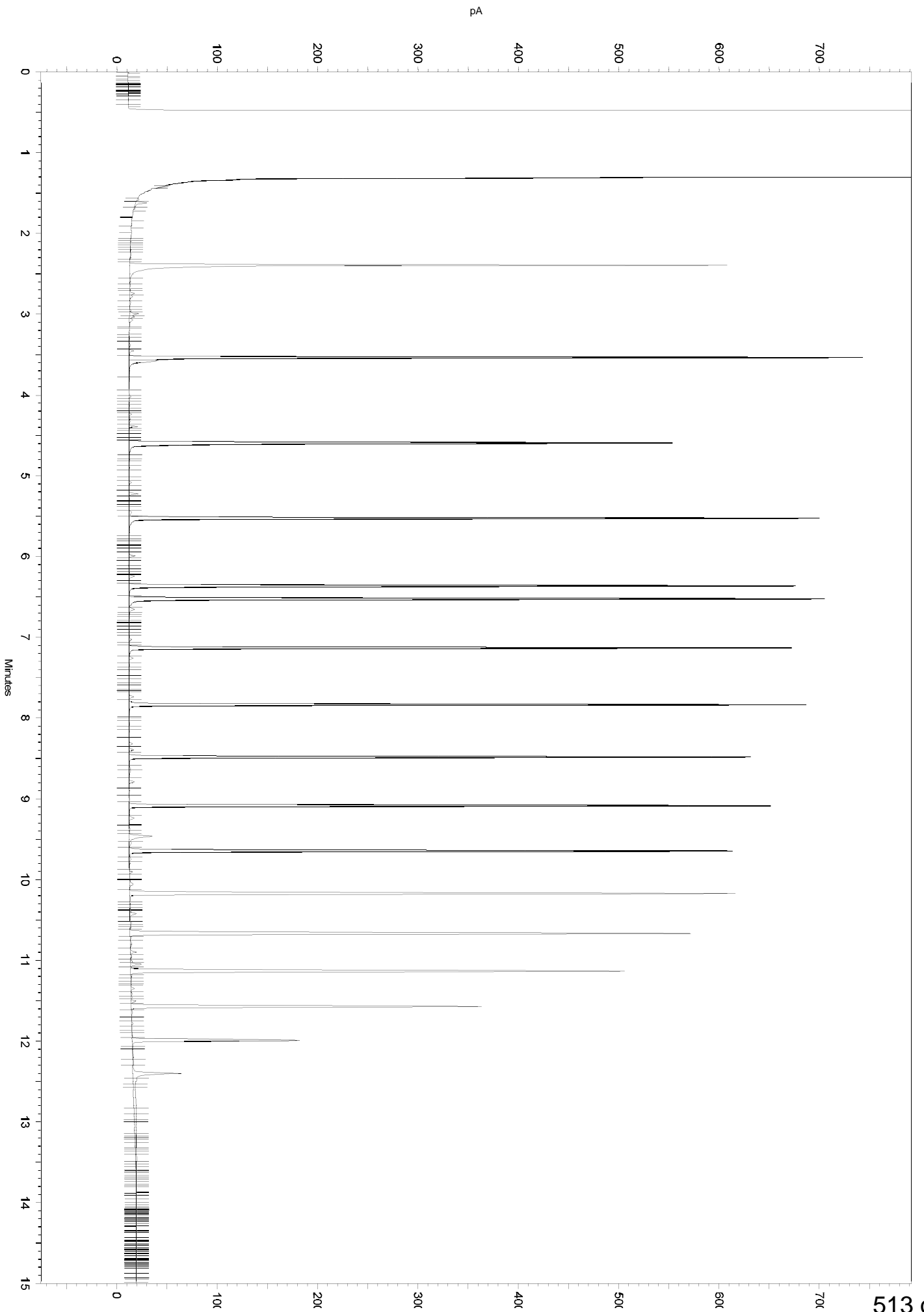
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\281a007.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

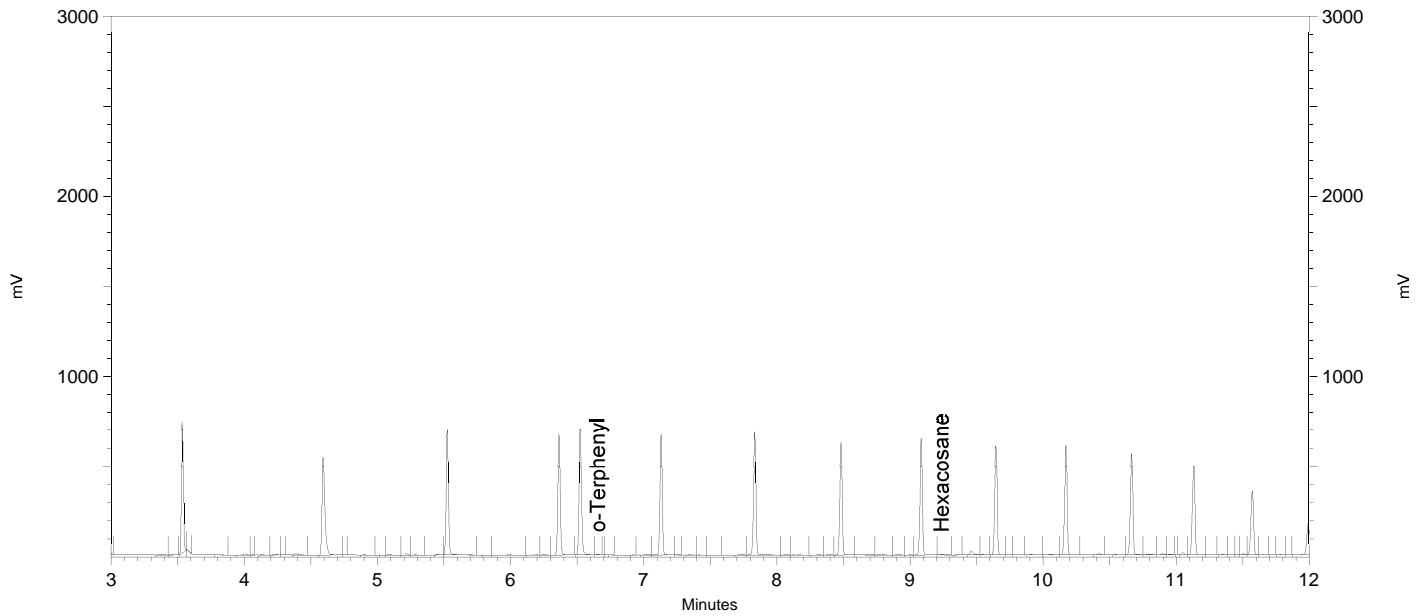


Sample Name: x,cmarker,s37406,c8-c50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\281a007.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\281.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_264.met
 Run Date: 10/8/2018 12:22:36 PM
 Analysis Date: 10/8/2018 12:42:38 PM
 Instrument: GC27A Vial: 7 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.657	42860	0.078
Hexacosane	9.237	55505	0.121



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\281a007.dat_3FF4.tmp
                        Start   Stop
Enabled Event Type      (Minutes) (Minutes) Value
-----
None
  
```


Continuing Calibration Verification Raw Data

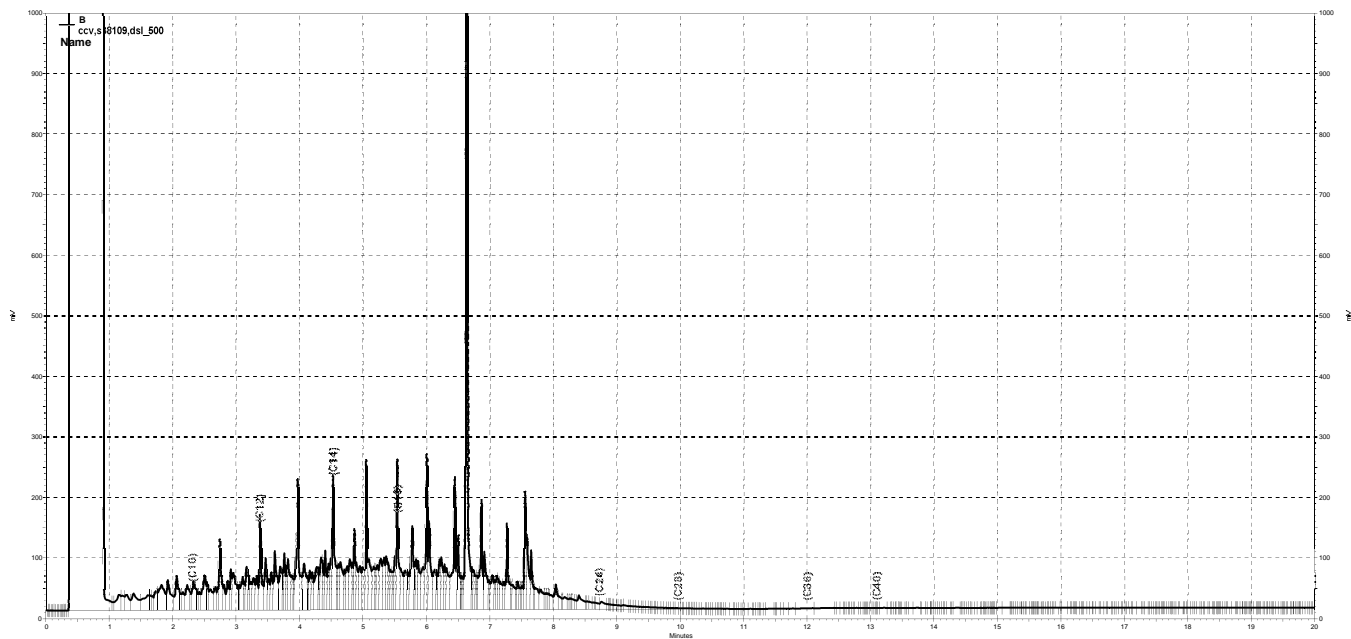
ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 228407852003 File : 283_003 Time : 10-OCT-2018 06:28
 Standards: S38109

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	45189	500.0	502.1	mg/L	0	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	54941	50.00	49.66	mg/L	-1	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b003, B

Sample Name: **ccv,s38109,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b003
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
 Run Date: 10/10/2018 6:28:17 AM
 Analysis Date: 10/10/2018 7:58:07 AM
 Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	13206110	291.680
DSL:10-14	8373213	0.000
DSL:10-22	24748536	563.303
DSL:10-24	25341498	563.148
DSL:10-28	25620890	562.656
DSL:12-24	22243078	574.689
DSL:12-28	22522470	573.960
DSL:14-24	17873886	0.000
DSL:16-24	12982899	634.711
MO:22-32	1100264	38.083
MO:24-36	430610	14.492
MO:28-40	61101	3.222
BUNKC:10-40	25668856	1250.939
BUNKC:12-40	22570436	1132.467

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

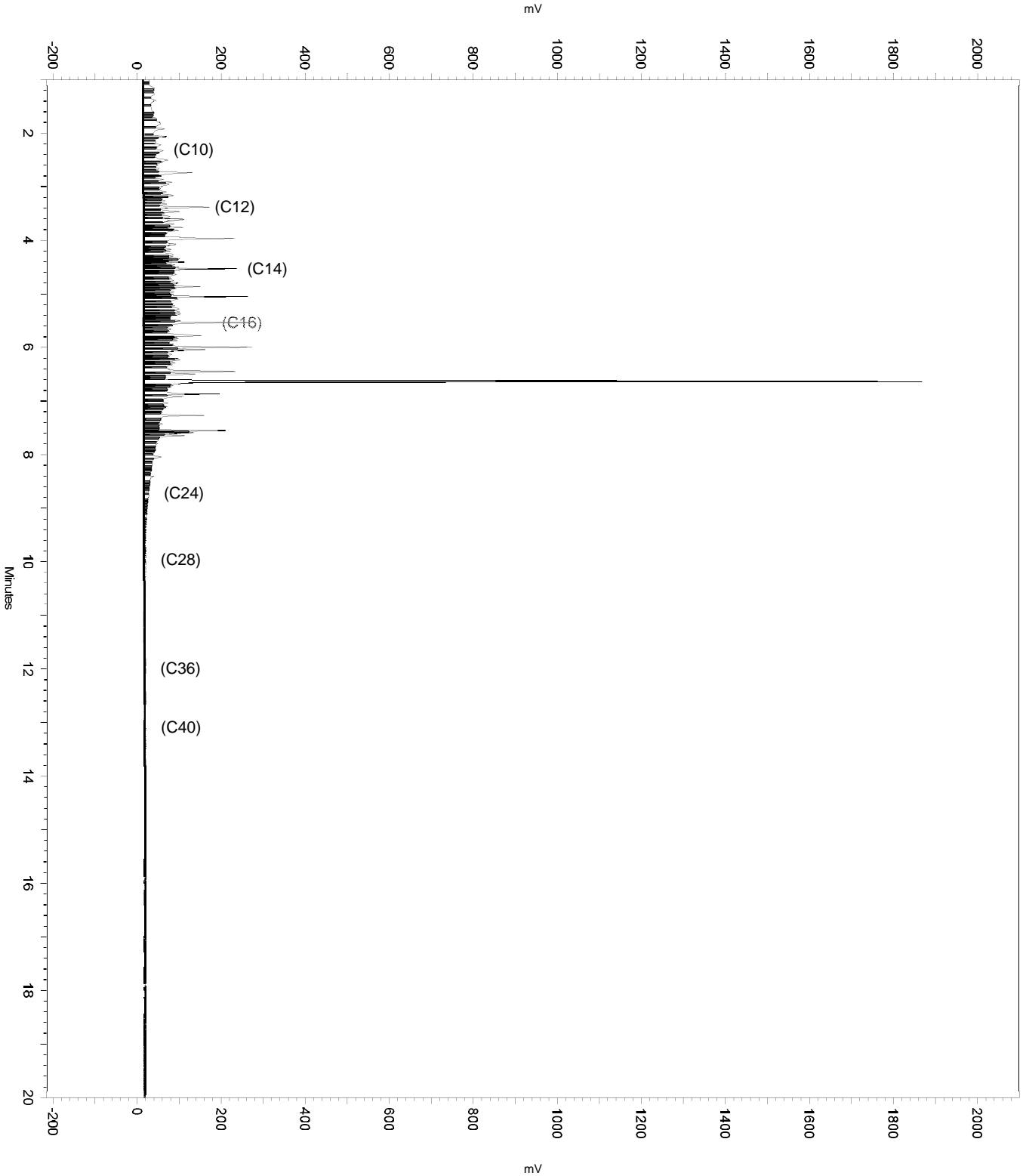
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.578	7.398	0
No	Split Peak	6.593	0	0
No	Split Peak	6.701	0	0

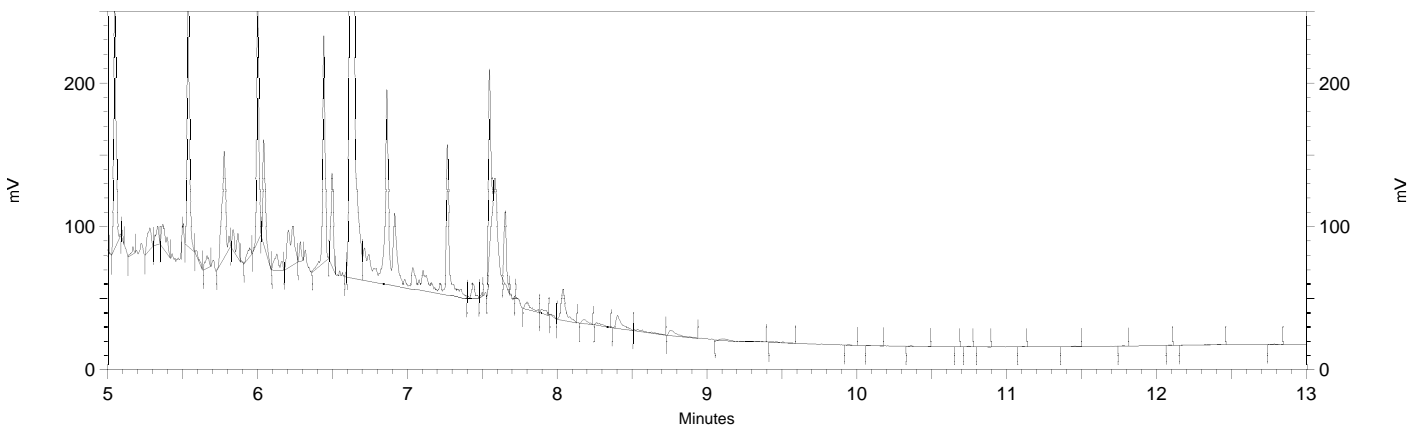
Sample Name: ccv,s38109,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b003
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
Run Date: 10/10/2018 6:28:17 AM
Analysis Date: 10/10/2018 7:58:07 AM
Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s38109,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b003
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 6:28:17 AM
 Analysis Date: 10/10/2018 7:56:50 AM
 Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.640	2747073	49.656
Hexacosane	9.423	2236	0.045



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

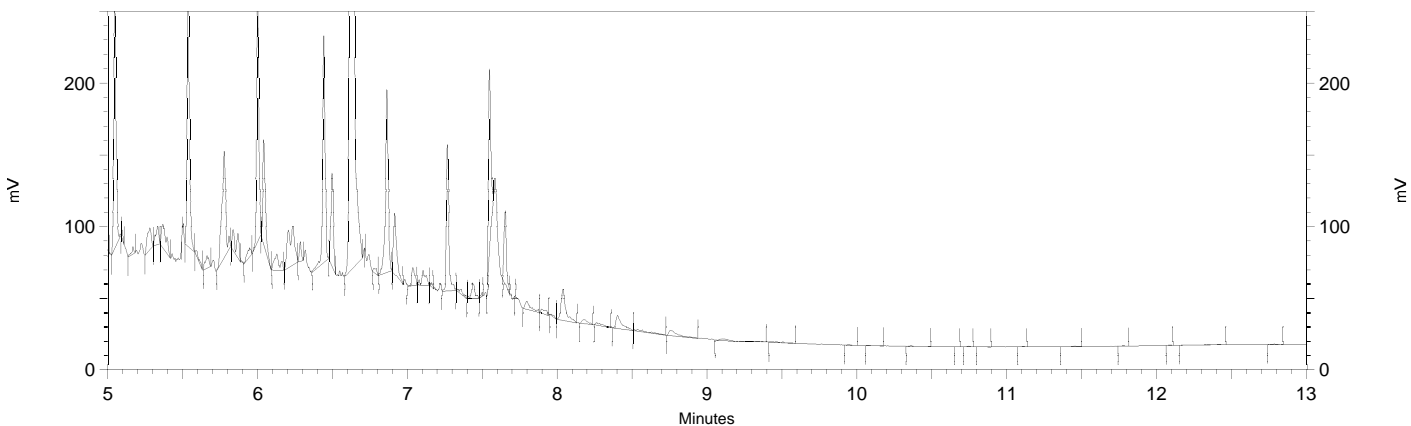
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.578	7.398	0
Yes	Split Peak	6.593	0	0
Yes	Split Peak	6.701	0	0

Sample Name: **ccv,s38109,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b003
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 6:28:17 AM
 Analysis Date: 10/10/2018 7:56:12 AM
 Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.640	2690926	48.641
Hexacosane	9.423	2236	0.045



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

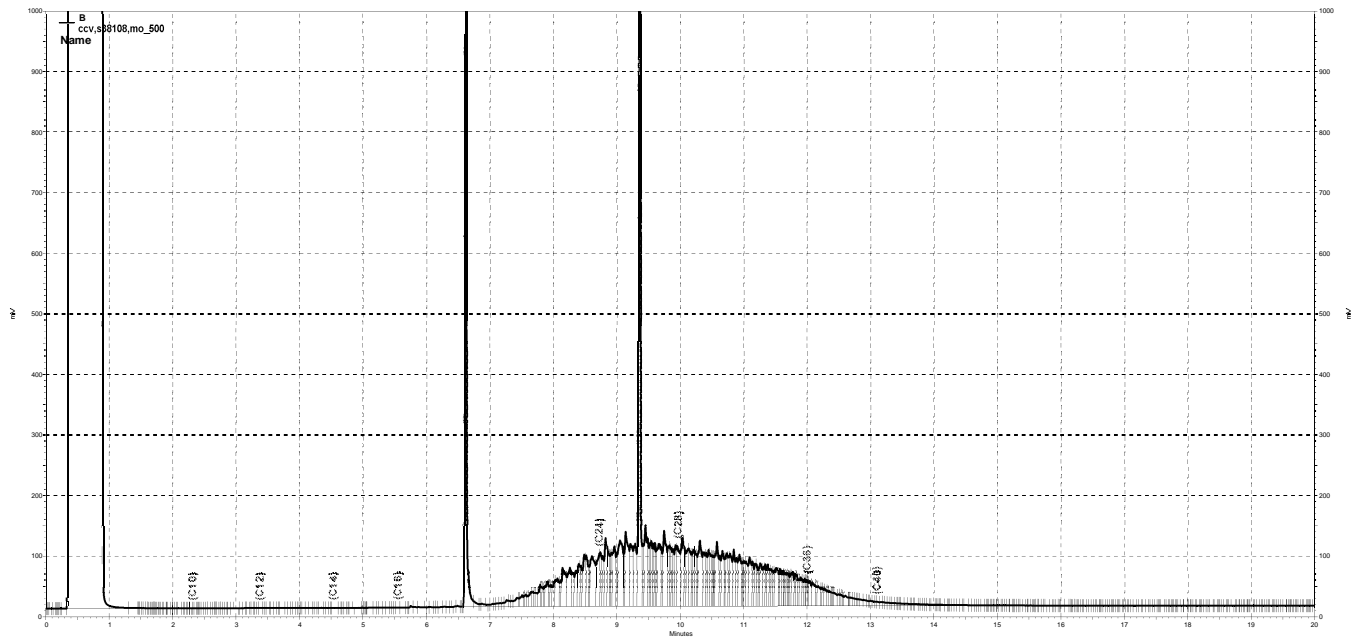
ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228407852004 File : 283_004 Time : 10-OCT-2018 06:56
 Standards: S38108

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	32556	500.0	547.8	mg/L	10	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	52834	50.00	47.75	mg/L	-4	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004, B

Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
 Run Date: 10/10/2018 6:56:33 AM
 Analysis Date: 10/10/2018 7:58:38 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12554	0.277
DSL:10-14	9488	0.000
DSL:10-22	4002744	91.107
DSL:10-24	6783966	150.756
DSL:10-28	16326307	358.539
DSL:12-24	6778596	175.137
DSL:12-28	16320937	415.921
DSL:14-24	6774786	0.000
DSL:16-24	6771655	331.054
MO:22-32	18004744	623.192
MO:24-36	18554854	624.451
MO:28-40	10548591	556.169
BUNKC:10-40	25837278	1259.146
BUNKC:12-40	25831910	1296.110

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

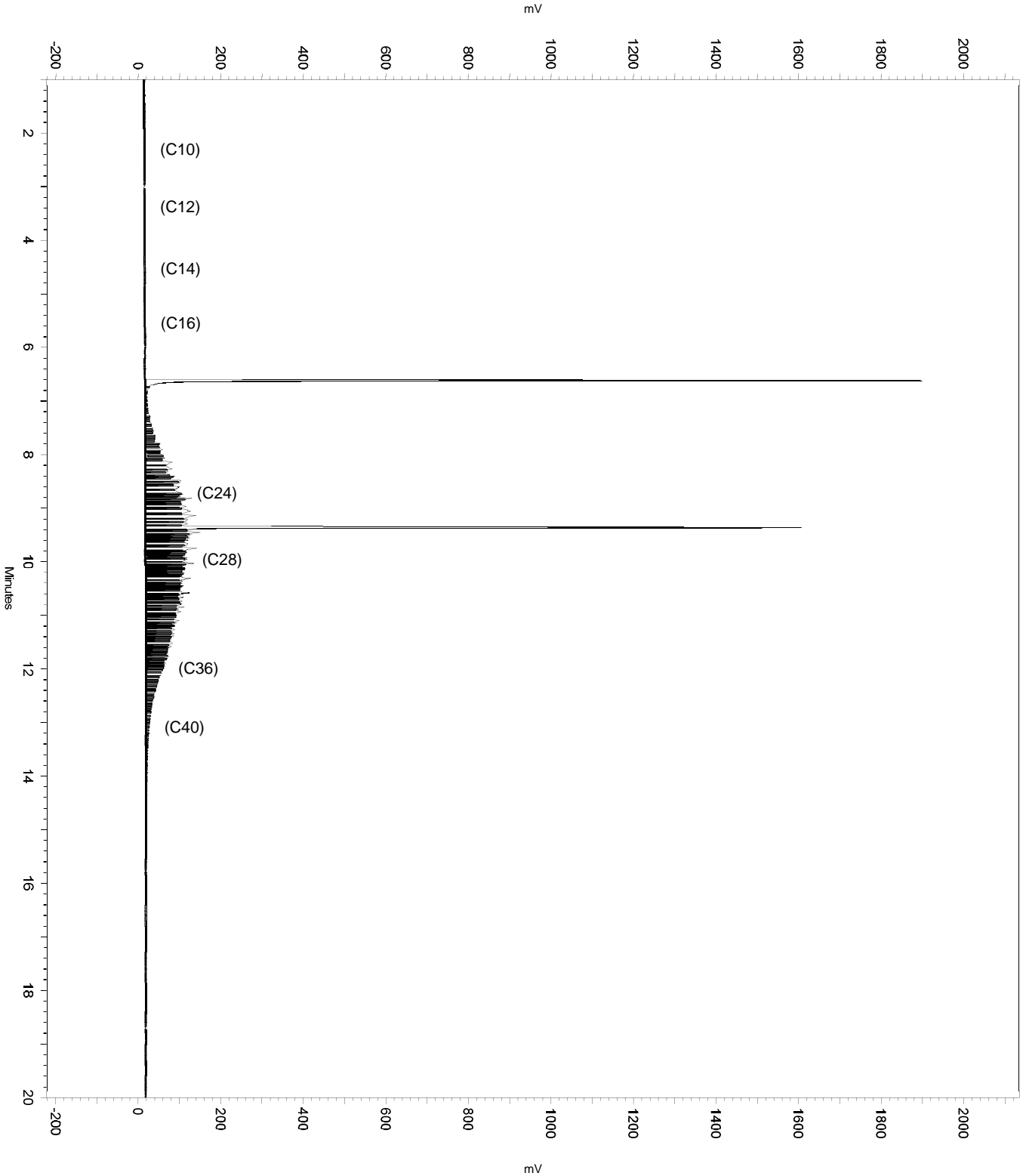
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.578	6.974	0
No	Split Peak	6.717	0	0
Yes	Move BL Start	6.973	6.562	0
No	Manual Peak	9.317	9.906	0
No	Split Peak	9.319	0	0
No	Split Peak	9.402	0	0

Sample Name: ccv,s38108,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
Run Date: 10/10/2018 6:56:33 AM
Analysis Date: 10/10/2018 7:58:38 AM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
 Run Date: 10/10/2018 6:56:33 AM
 Analysis Date: 10/10/2018 7:58:25 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12554	0.277
DSL:10-14	9488	0.000
DSL:10-22	3795663	86.393
DSL:10-24	6479546	143.991
DSL:10-28	15873127	348.587
DSL:12-24	6474176	167.272
DSL:12-28	15867757	404.372
DSL:14-24	6470366	0.000
DSL:16-24	6467235	316.172
MO:22-32	17634200	610.367
MO:24-36	18213720	612.971
MO:28-40	10291973	542.639
BUNKC:10-40	25147136	1225.513
BUNKC:12-40	25141764	1261.483

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

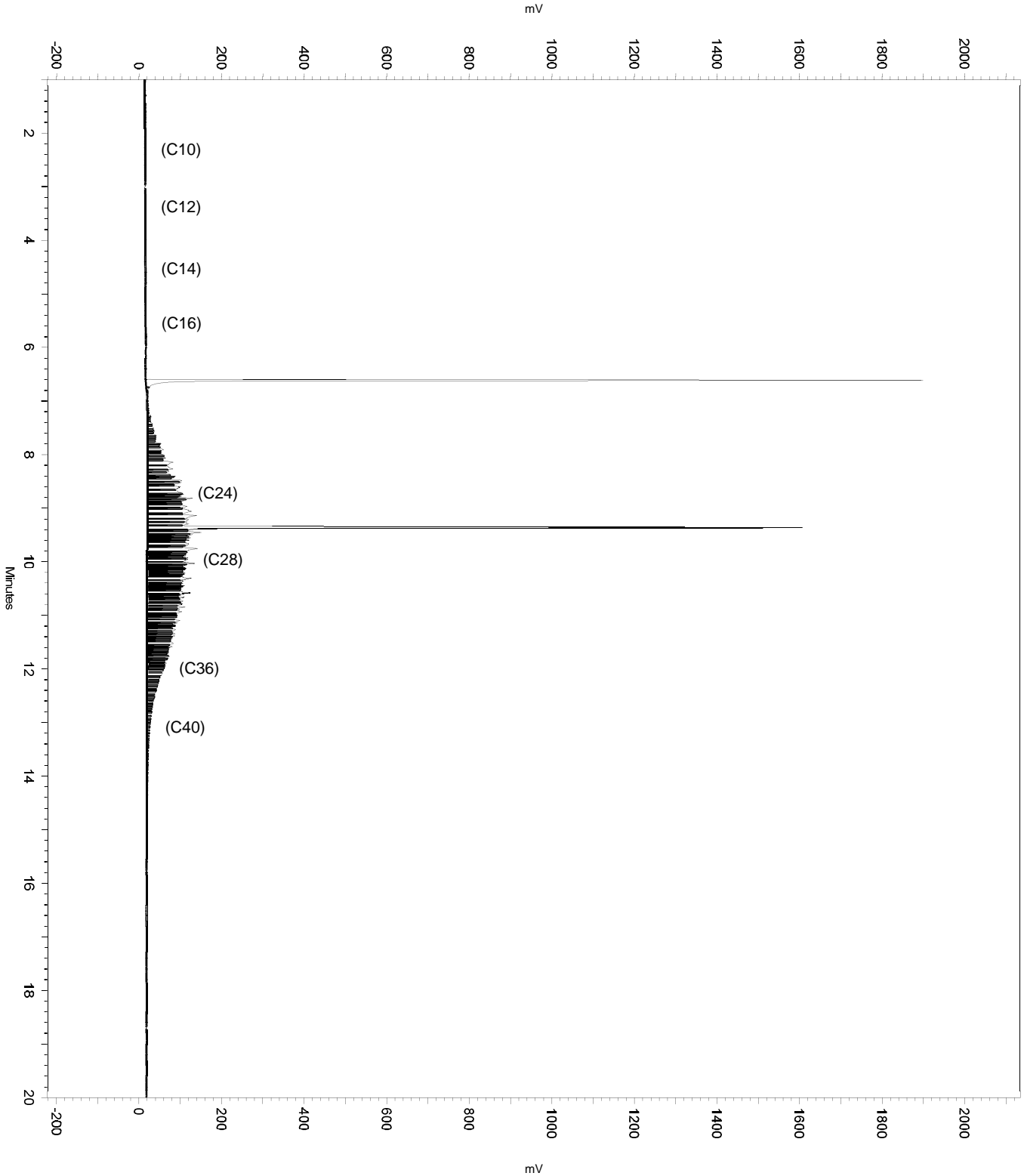
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.578	6.974	0
No	Split Peak	6.717	0	0
No	Manual Peak	9.317	9.906	0
No	Split Peak	9.319	0	0
No	Split Peak	9.402	0	0

Sample Name: ccv,s38108,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
Run Date: 10/10/2018 6:56:33 AM
Analysis Date: 10/10/2018 7:58:25 AM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

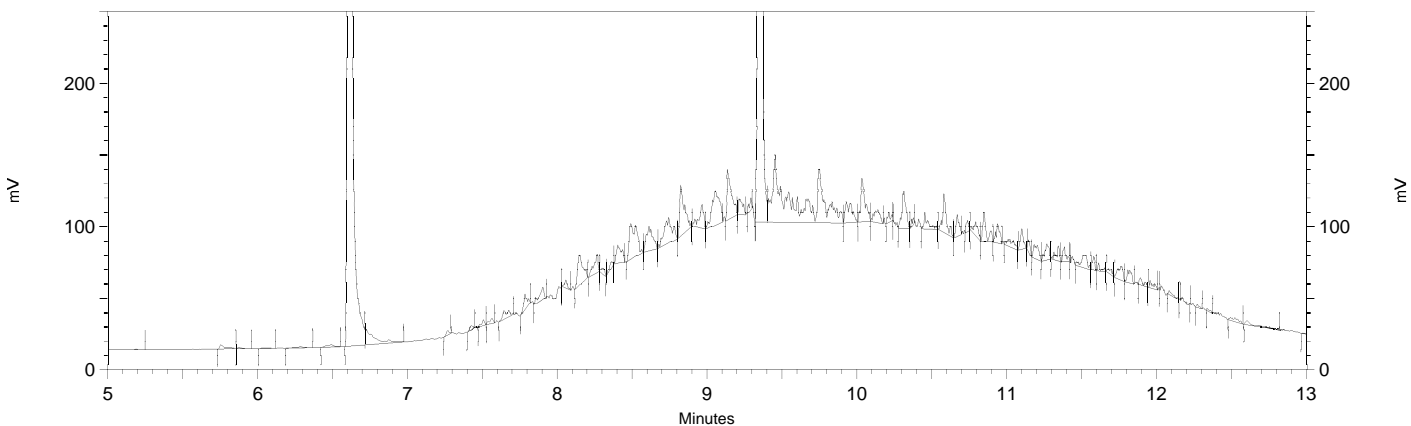


Sample Name: **ccv,s38108,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 6:56:33 AM
 Analysis Date: 10/10/2018 7:57:45 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.623	2641688	47.751
Hexacosane	9.365	2276707	45.593



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

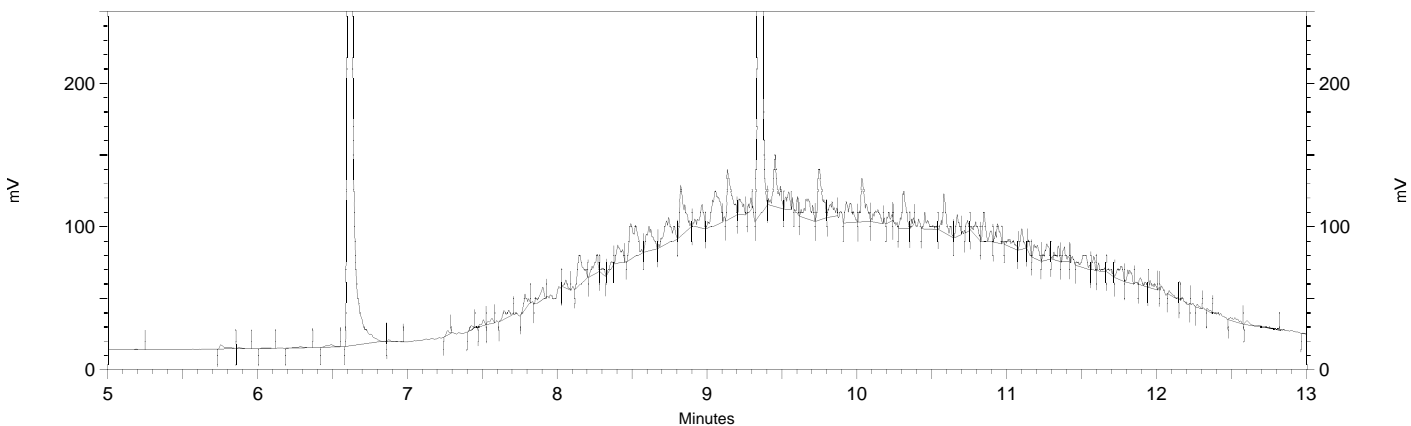
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.578	6.974	0
Yes	Split Peak	6.717	0	0
Yes	Manual Peak	9.317	9.906	0
Yes	Split Peak	9.319	0	0
Yes	Split Peak	9.402	0	0

Sample Name: **ccv,s38108,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 6:56:33 AM
 Analysis Date: 10/10/2018 7:56:58 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.623	2669291	48.250
Hexacosane	9.365	2245212	44.962



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b004
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

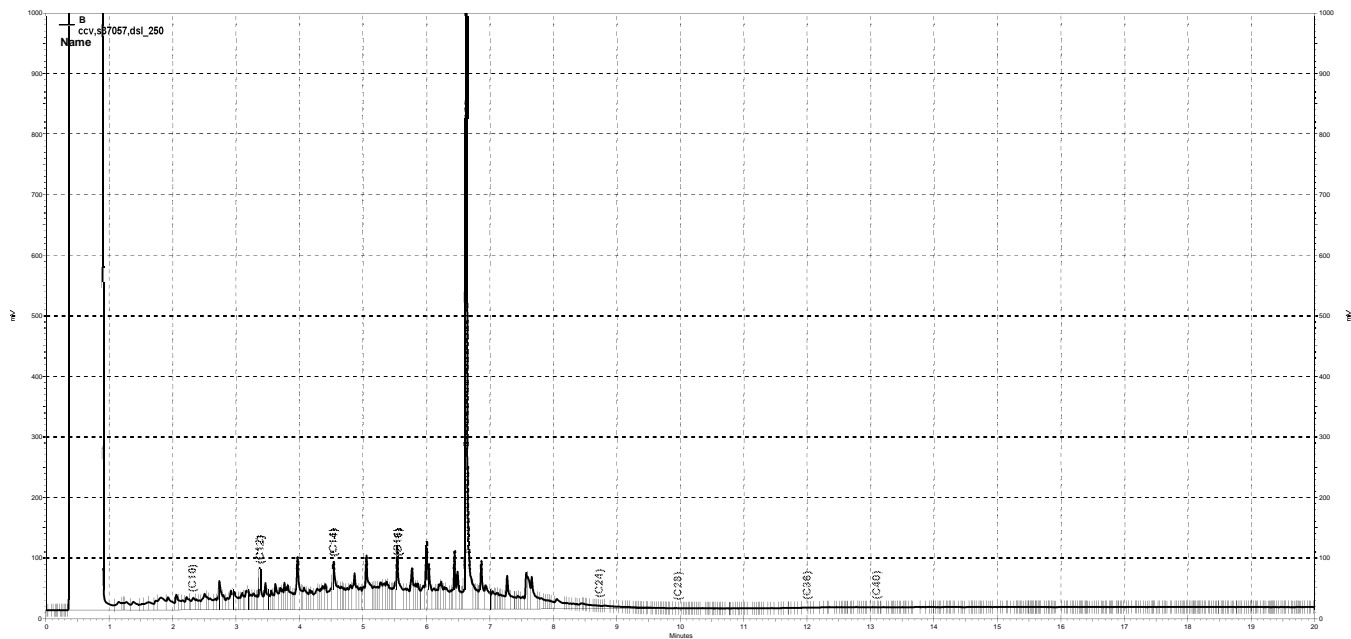
ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
 Seqnum : 228407852012 File : 283_012 Time : 10-OCT-2018 12:59
 Standards: S37057

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	228163090002	24-APR-2018	45000	45375	250.0	252.1	mg/L	1	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	52108	50.00	47.09	mg/L	-6	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b012, B

Sample Name: ccv,s37057,dsl_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
 Run Date: 10/10/2018 12:59:32 PM
 Analysis Date: 10/10/2018 1:54:07 PM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	6509079	143.765
DSL:10-14	4070714	0.000
DSL:10-22	13699998	311.826
DSL:10-24	13949124	309.982
DSL:10-28	14101313	309.676
DSL:12-24	12432856	321.225
DSL:12-28	12585045	320.716
DSL:14-24	10300121	0.000
DSL:16-24	7903834	386.404
MO:22-32	558906	19.345
MO:24-36	211145	7.106
MO:28-40	100994	5.325
BUNKC:10-40	14196442	691.845
BUNKC:12-40	12680174	636.225

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

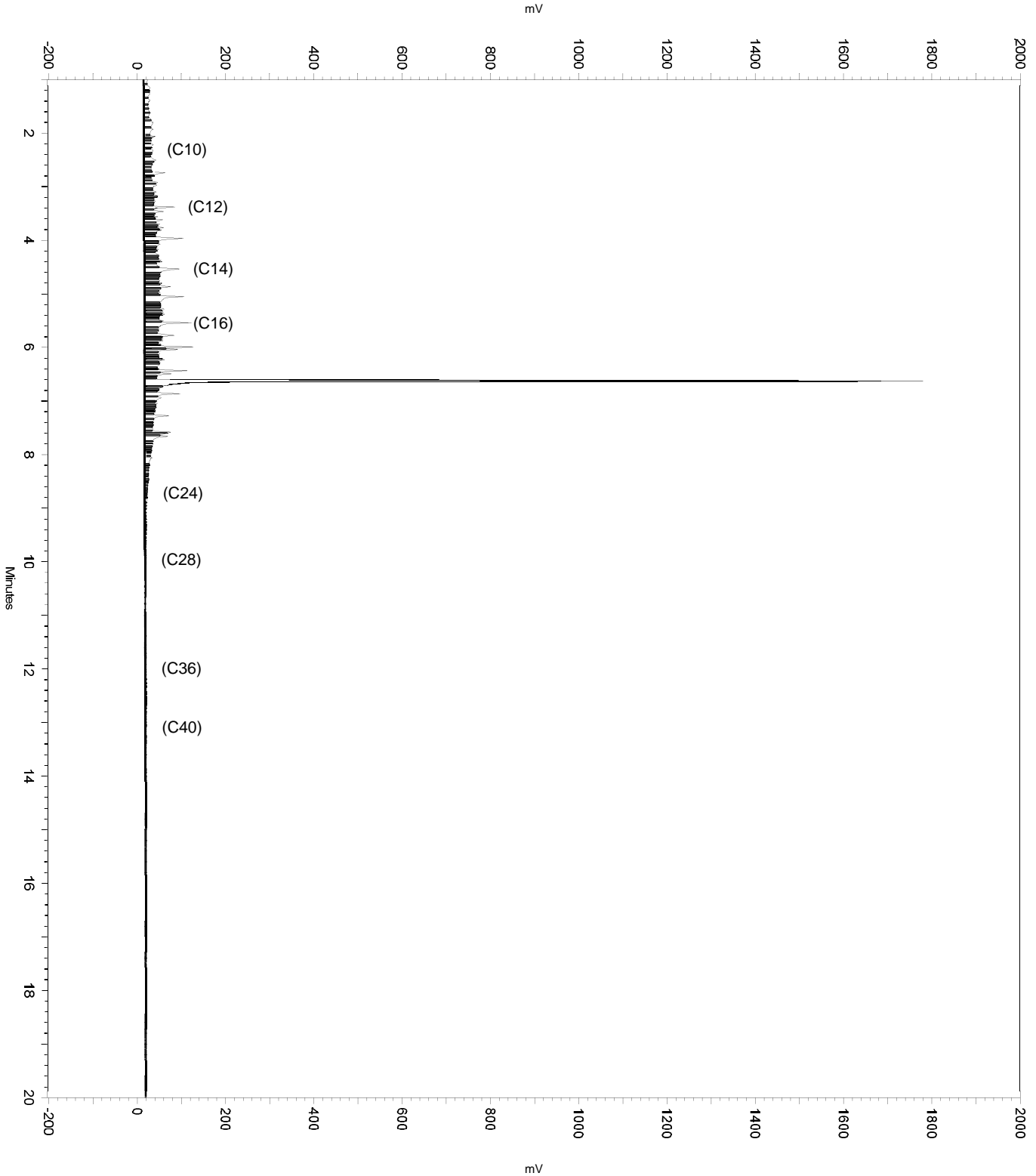
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.553	7.024	0
No	Split Peak	6.589	0	0
No	Split Peak	6.699	0	0
Yes	Move BL Stop	9.603	10.531	0

Sample Name: ccv,s37057,dsl_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b012
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
Run Date: 10/10/2018 12:59:32 PM
Analysis Date: 10/10/2018 1:54:07 PM
Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s37057,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
 Run Date: 10/10/2018 12:59:32 PM
 Analysis Date: 10/10/2018 1:53:49 PM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	6414062	141.666
DSL:10-14	4013070	0.000
DSL:10-22	13478554	306.786
DSL:10-24	13691037	304.247
DSL:10-28	13770508	302.412
DSL:12-24	12196730	315.124
DSL:12-28	12276201	312.845
DSL:14-24	10094356	0.000
DSL:16-24	7733995	378.101
MO:22-32	432600	14.973
MO:24-36	126573	4.260
MO:28-40	91741	4.837
BUNKC:10-40	13861179	675.507
BUNKC:12-40	12366872	620.505

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

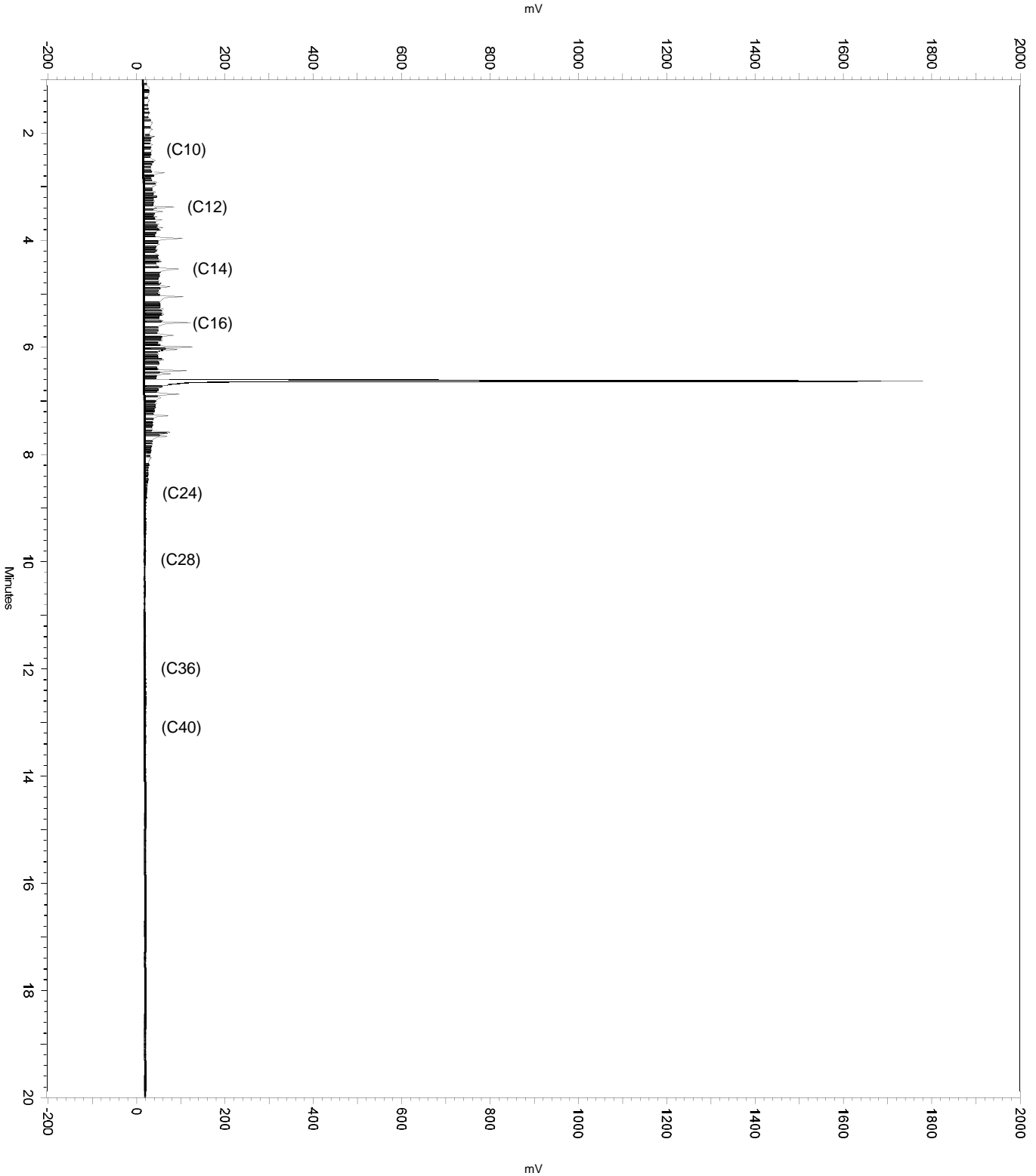
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.553	7.024	0
No	Split Peak	6.589	0	0
No	Split Peak	6.699	0	0

Sample Name: ccv,s37057,dsl_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b012
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
Run Date: 10/10/2018 12:59:32 PM
Analysis Date: 10/10/2018 1:53:49 PM
Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

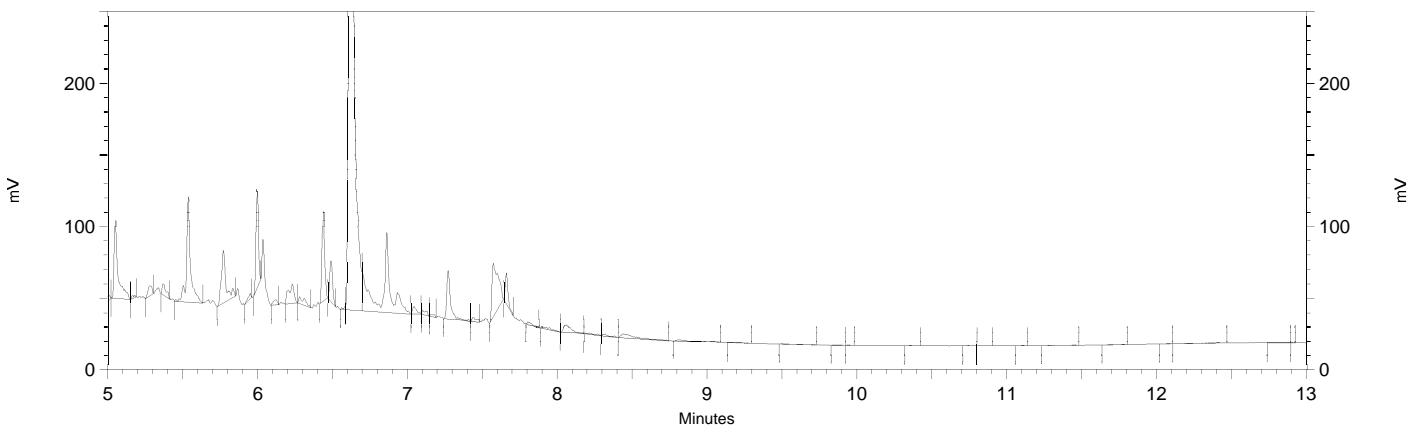


Sample Name: **ccv,s37057,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 12:59:32 PM
 Analysis Date: 10/10/2018 1:52:42 PM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.630	2605393	47.095
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b012

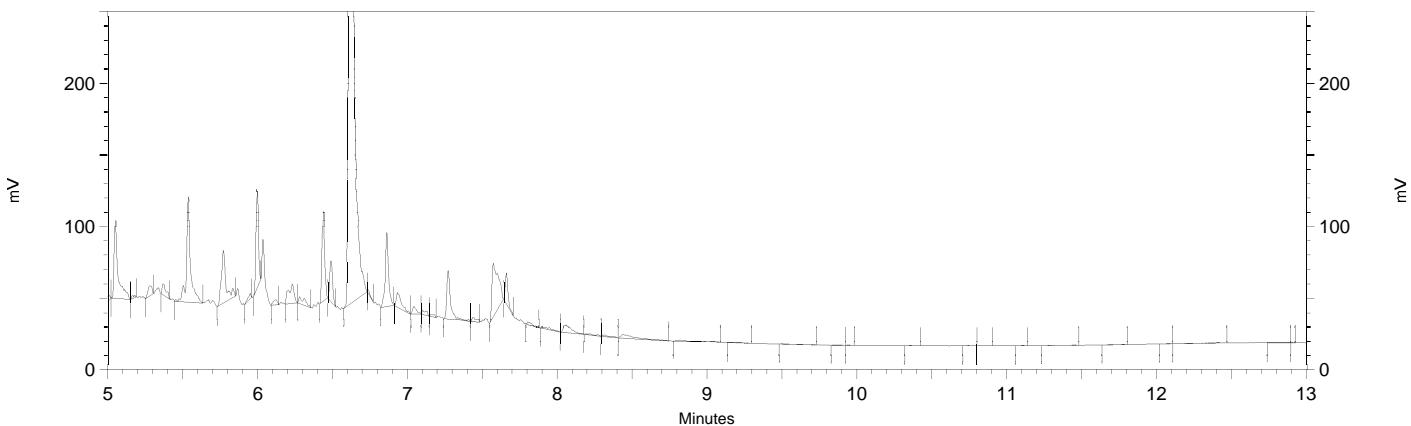
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.553	7.024	0
Yes	Split Peak	6.589	0	0
Yes	Split Peak	6.699	0	0

Sample Name: **ccv,s37057,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 12:59:32 PM
 Analysis Date: 10/10/2018 1:52:09 PM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.630	2580879	46.652
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

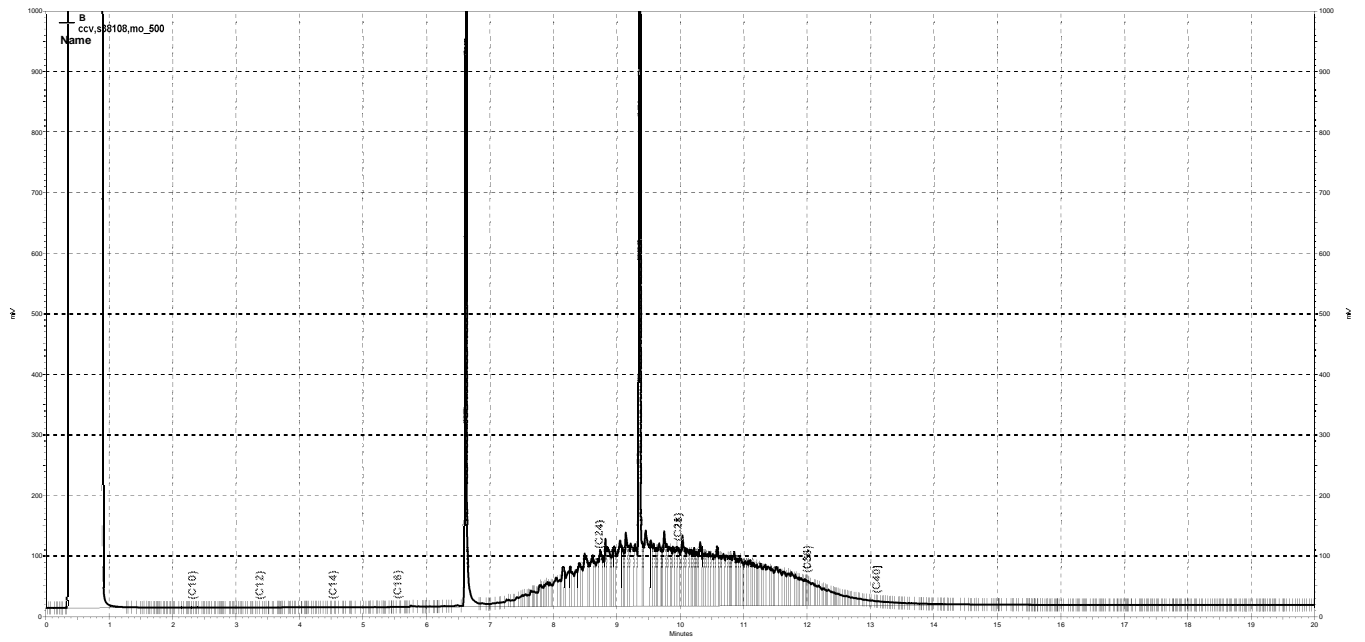
ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 228407852013 File : 283_013 Time : 10-OCT-2018 13:27
 Standards: S38108

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	228223554001	04-JUN-2018	29714	32294	500.0	543.4	mg/L	9	15	
o-Terphenyl	B	228263897001	03-JUL-2018	55322	52339	50.00	47.30	mg/L	-5	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b013, B

Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b013
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
 Run Date: 10/10/2018 1:27:39 PM
 Analysis Date: 10/10/2018 1:54:15 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	30843	0.681
DSL:10-14	22410	0.000
DSL:10-22	4189549	95.359
DSL:10-24	6949876	154.443
DSL:10-28	16161083	354.911
DSL:12-24	6935939	179.202
DSL:12-28	16147146	411.492
DSL:14-24	6928408	0.000
DSL:16-24	6920580	338.335
MO:22-32	17794812	615.926
MO:24-36	18387552	618.821
MO:28-40	10486933	552.918
BUNKC:10-40	25836272	1259.098
BUNKC:12-40	25822336	1295.631

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

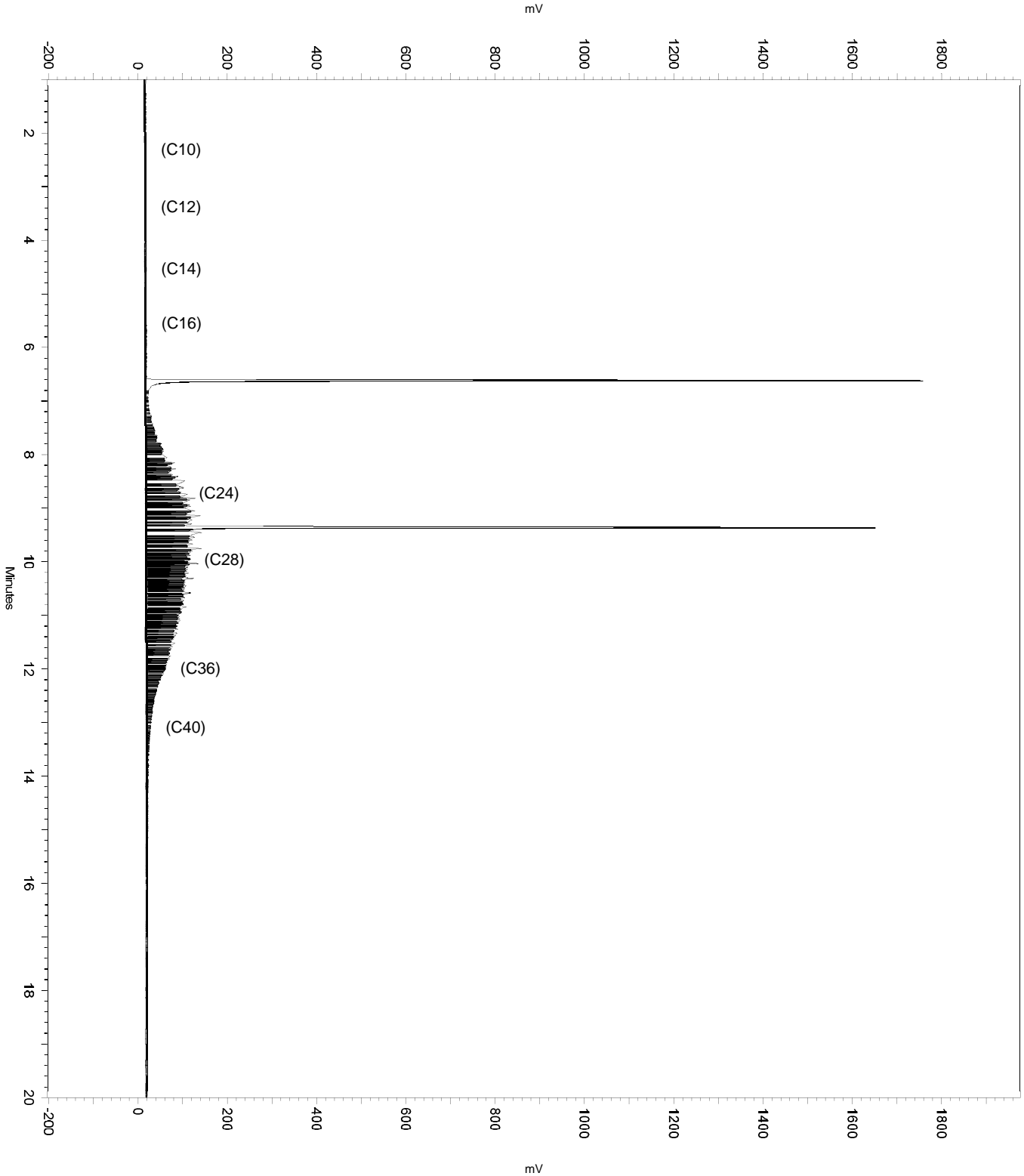
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.58	6.997	0
No	Split Peak	6.736	0	0
No	Manual Peak	9.318	9.99	0
No	Split Peak	9.397	0	0

Sample Name: ccv,s38108,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b013
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bTEH_274.met
Run Date: 10/10/2018 1:27:39 PM
Analysis Date: 10/10/2018 1:54:15 PM
Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

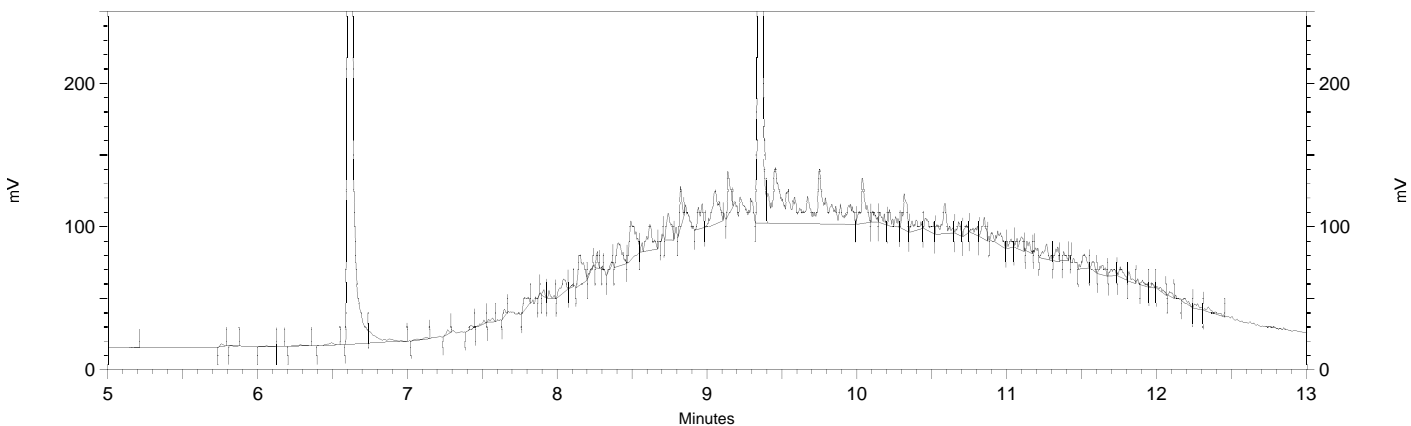


Sample Name: **ccv,s38108,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b013
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 1:27:39 PM
 Analysis Date: 10/10/2018 1:53:32 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.623	2616972	47.304
Hexacosane	9.367	2240797	44.874



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

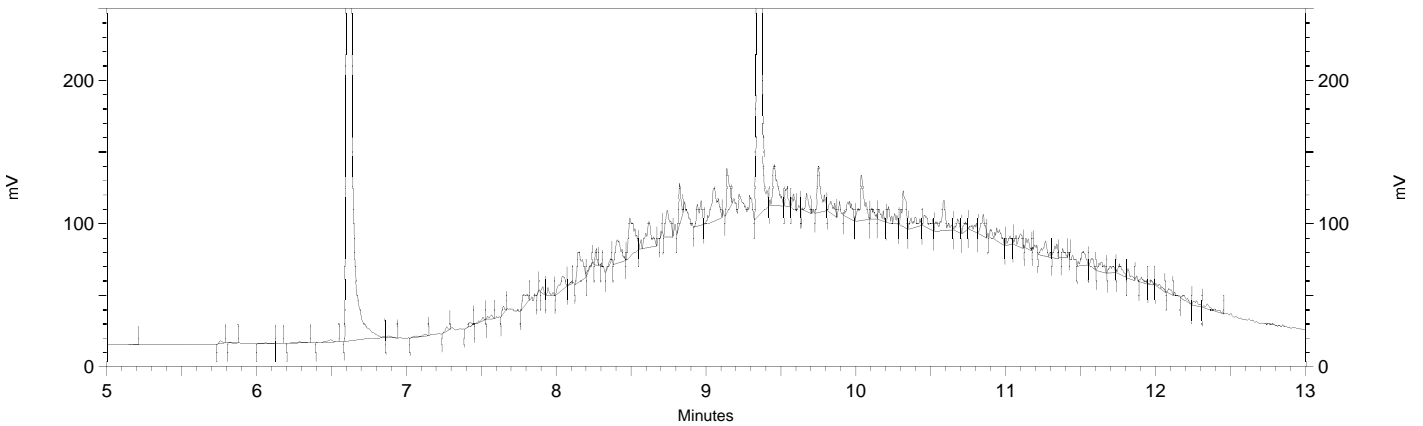
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.58	6.997	0
Yes	Split Peak	6.736	0	0
Yes	Manual Peak	9.318	9.99	0
Yes	Split Peak	9.397	0	0

Sample Name: **ccv,s38108,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b013
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2018\283.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_274.met
 Run Date: 10/10/2018 1:27:39 PM
 Analysis Date: 10/10/2018 1:52:50 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.623	2633748	47.607
Hexacosane	9.367	2231790	44.694



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2018\283b013
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

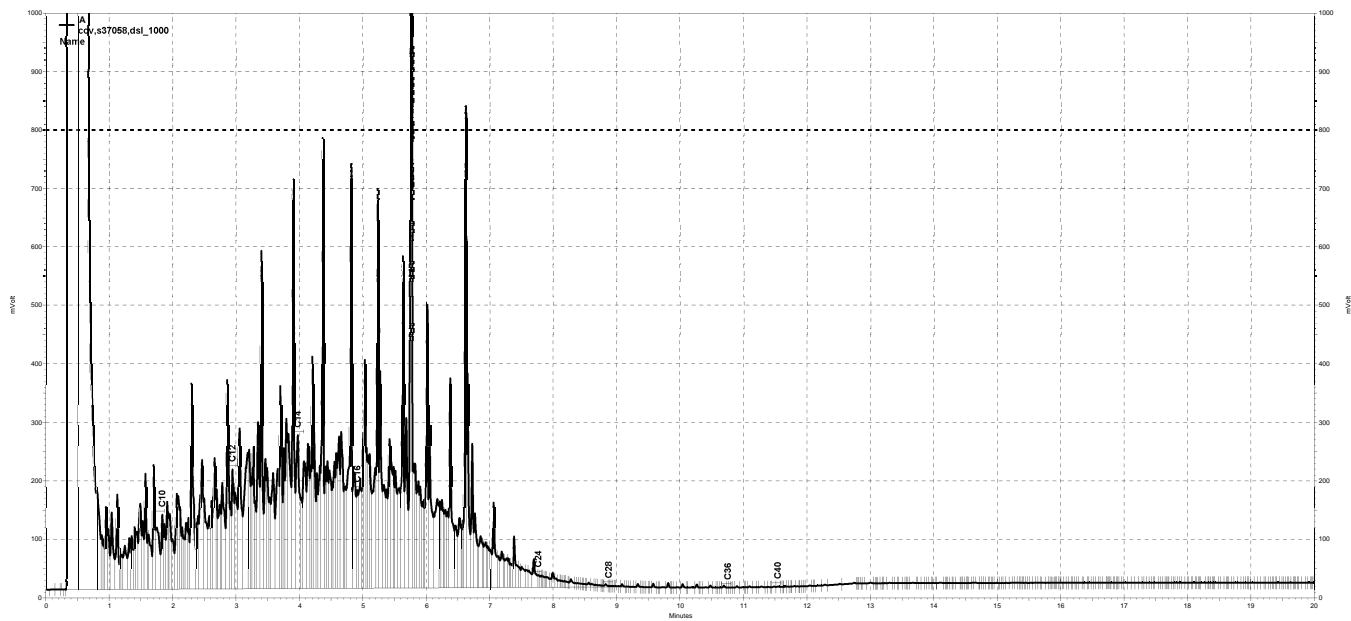
ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 868415085014 File : 288a014 Time : 15-OCT-2018 13:45
 Standards: S37058

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	868380491001	21-SEP-2018	56893	58981	1000	1037	mg/L	4	15	
o-Terphenyl	868397771001	03-OCT-2018	67739	72447	50.00	53.47	mg/L	7	15	

WA1 10/15/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 10/15/18 Reviewer: EAH Date: 10/15/18



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a014, A

Sample Name: ccv,s37058,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a014
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH285.met
 Run Date: 10/15/2018 1:45:51 PM
 Analysis Date: 10/15/2018 3:13:11 PM
 Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	35355832	760.188
DSL:10-14	23084060	1061.042
DSL:10-22	61358376	1109.714
DSL:10-24	62603616	1100.370
DSL:10-28	63173192	1096.121
DSL:12-24	53413288	1102.095
DSL:12-28	53982864	1097.092
DSL:14-24	40728616	1105.161
DSL:16-24	28750168	1096.981
MO:22-32	2585265	59.312
MO:24-36	882428	20.286
MO:28-40	124372	4.722
BUNKC:10-40	63276920	2017.974
BUNKC:12-40	54086592	1771.135

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

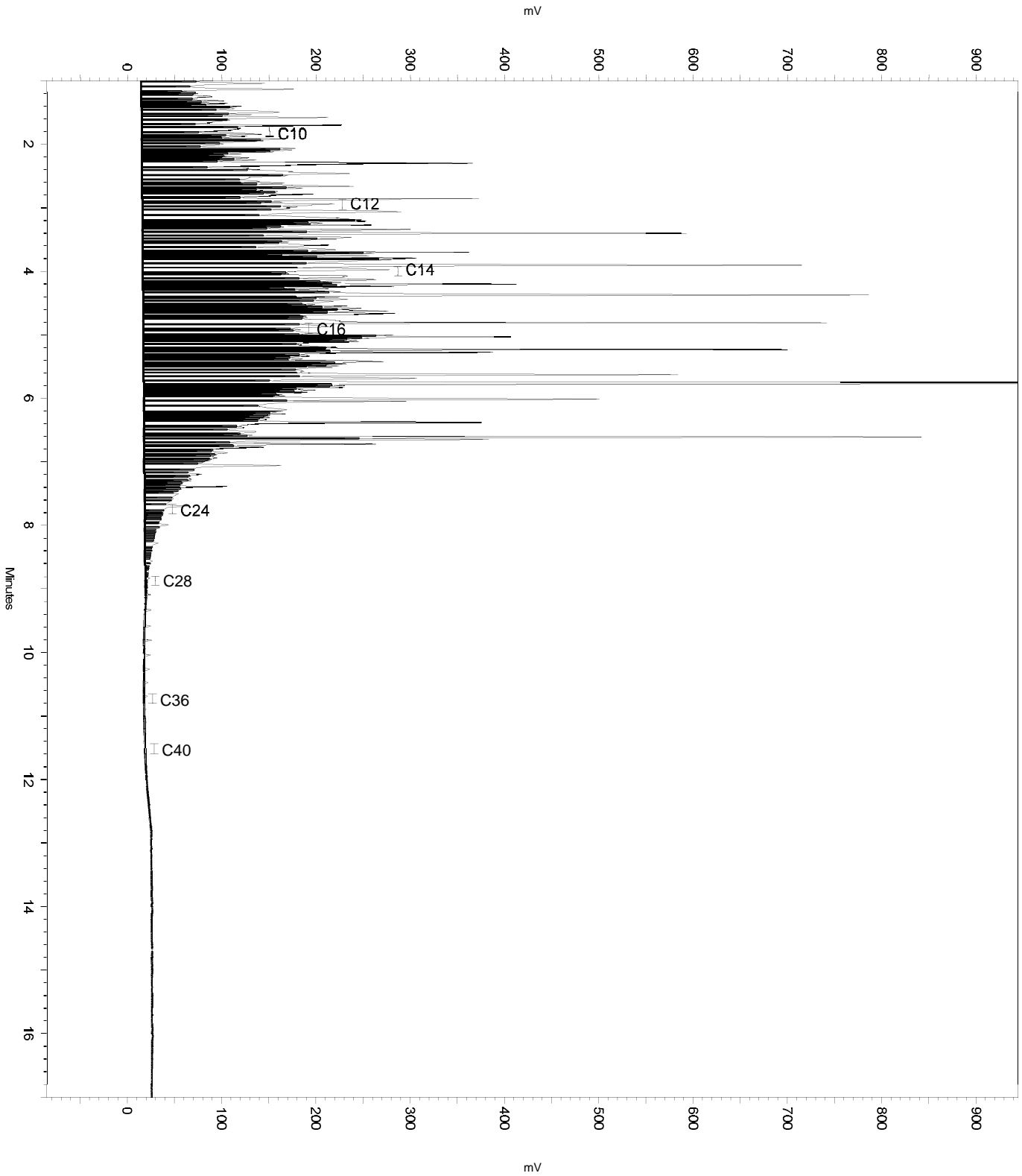
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	5.714	5.952	0
No	Split Peak	5.787	0	0
Yes	Move BL Stop	8.968	9.263	0

Sample Name: ccv,s37058,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a014
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH285.met
Run Date: 10/15/2018 1:45:51 PM
Analysis Date: 10/15/2018 3:13:11 PM
Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s37058,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a014
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH285.met
 Run Date: 10/15/2018 1:45:51 PM
 Analysis Date: 10/15/2018 3:12:54 PM
 Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	35262524	758.182
DSL:10-14	23027892	1058.460
DSL:10-22	61142584	1105.811
DSL:10-24	62347200	1095.863
DSL:10-28	62831032	1090.184
DSL:12-24	53179080	1097.262
DSL:12-28	53662912	1090.589
DSL:14-24	40524672	1099.627
DSL:16-24	28580784	1090.518
MO:22-32	2437836	55.930
MO:24-36	776890	17.859
MO:28-40	103779	3.940
BUNKC:10-40	62925616	2006.771
BUNKC:12-40	53757496	1760.358

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

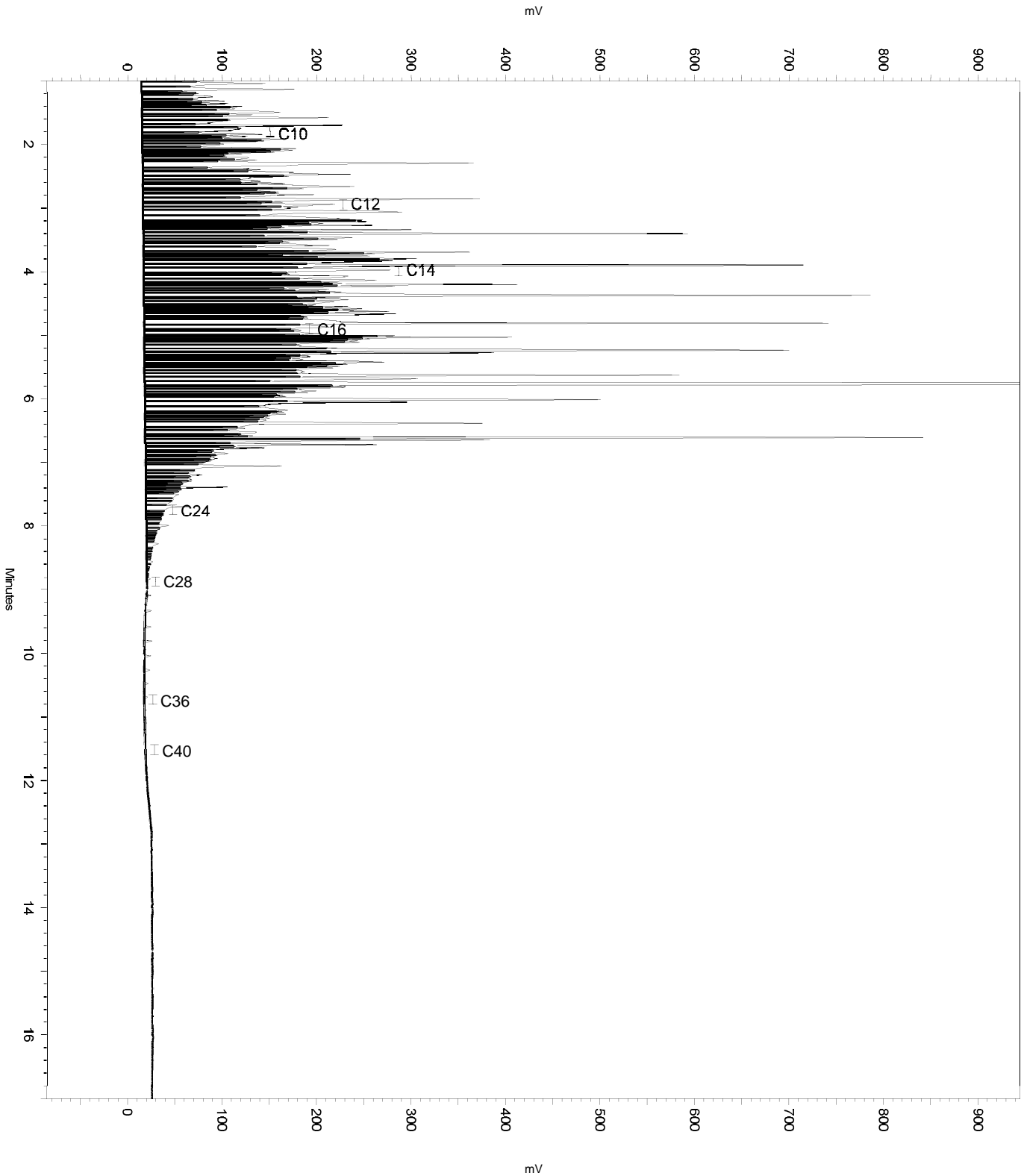
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	5.714	5.952	0
No	Split Peak	5.787	0	0

Sample Name: ccv,s37058,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a014
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH285.met
Run Date: 10/15/2018 1:45:51 PM
Analysis Date: 10/15/2018 3:12:54 PM
Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

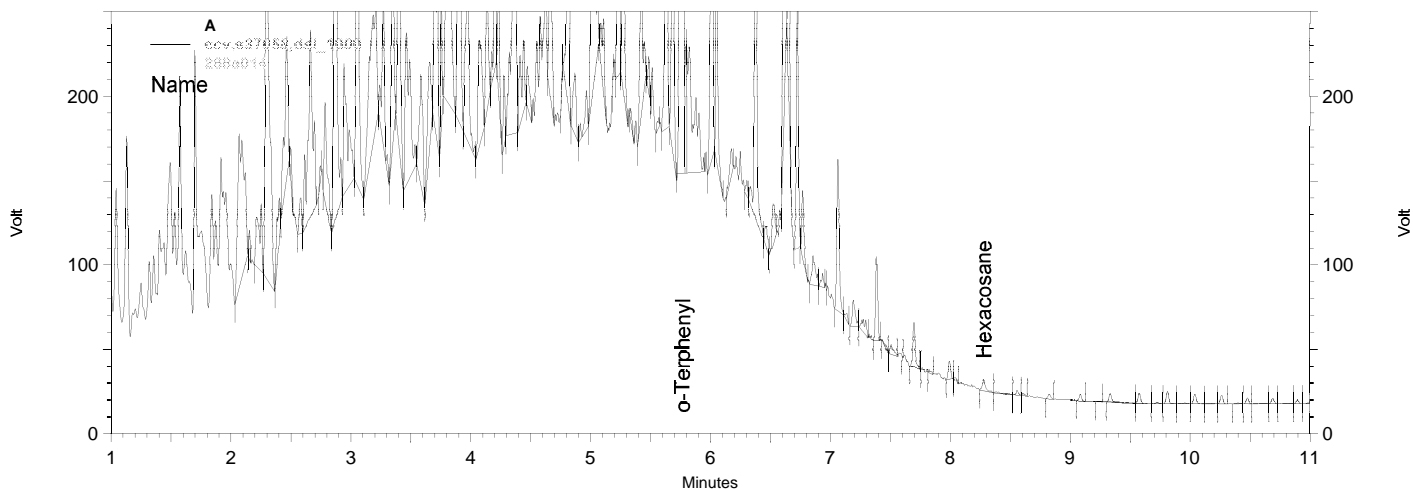


Sample Name: **ccv,s37058,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a014
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 1:45:51 PM
 Analysis Date: 10/15/2018 3:11:16 PM
 Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.770	3622326	53.475
Hexacosane	8.280	11906	0.217



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283\37058,dsl_1000

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

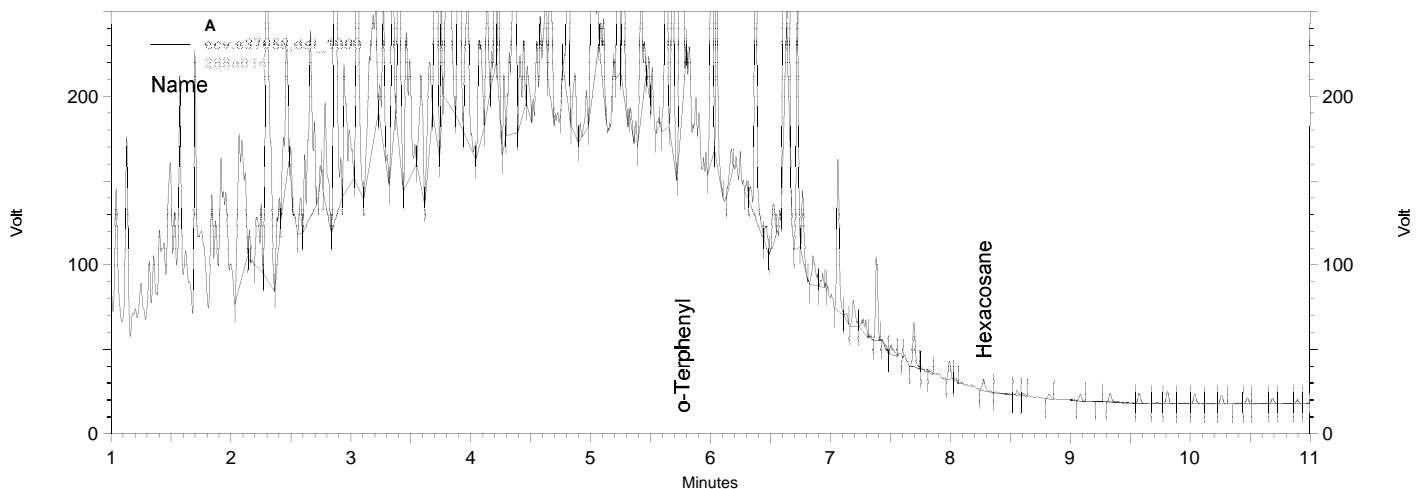
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a014				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	5.714	5.952	0
Yes	Split Peak	5.787	0	0

Sample Name: **ccv,s37058,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a014
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 1:45:51 PM
 Analysis Date: 10/15/2018 3:10:39 PM
 Instrument: GC26A Vial: 14 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.770	3519713	51.960
Hexacosane	8.280	11906	0.217



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283\37058,dsl_1000

 << General Method Parameters >>-----

No items selected for this section

 << A >>-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

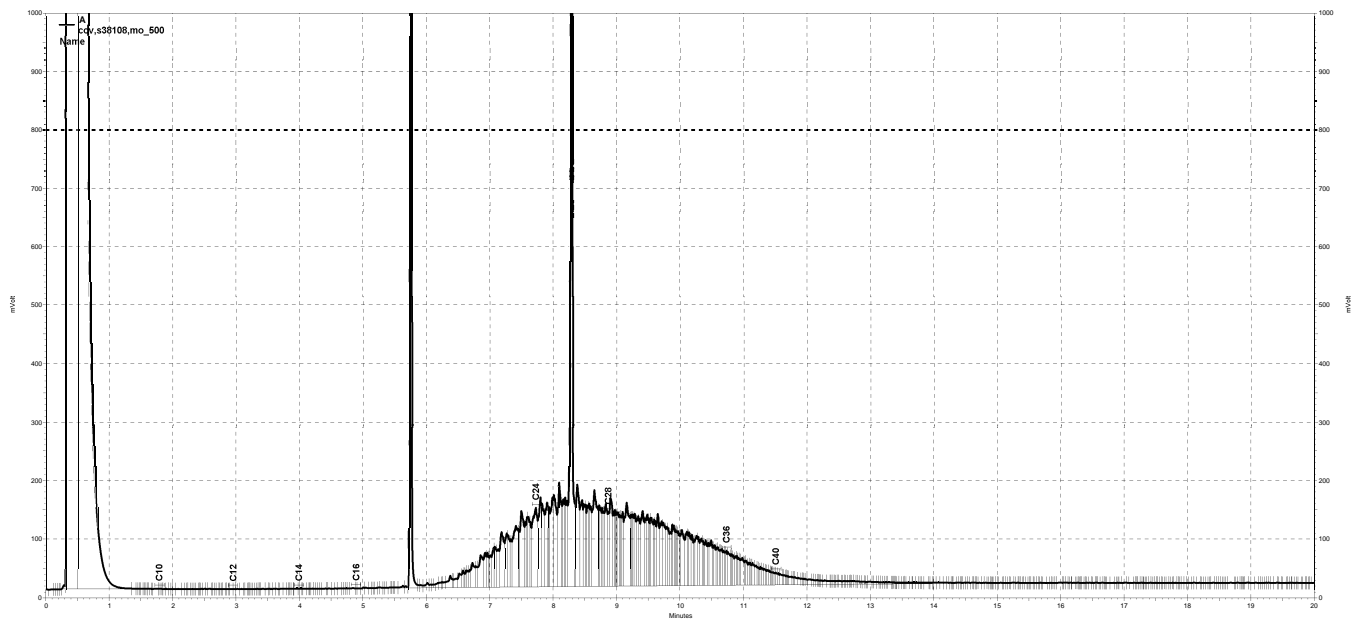
ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
 Seqnum : 868415085015.3 File : 288a015 Time : 15-OCT-2018 14:13
 Standards: S38108

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	868409292001	11-OCT-2018	43500	41785	500.0	480.3	mg/L	-4	15	
o-Terphenyl	868397771001	03-OCT-2018	67739	69899	50.00	51.59	mg/L	3	15	

WA1 10/15/18 : Corrected automatically drawn baseline.

EAH: 10/15/18 * WA1: 10/15/18 * CB1: 10/17/18



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a015, A

Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\2018 old methods\TEH285.met
 Run Date: 10/15/2018 2:13:35 PM
 Analysis Date: 10/17/2018 6:07:03 AM
 Instrument: GC26A Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	29996	0.645
DSL:10-14	22150	1.018
DSL:10-22	5957557	107.747
DSL:10-24	9616967	169.035
DSL:10-28	21767508	377.689
DSL:12-24	9603995	198.162
DSL:12-28	21754536	442.117
DSL:14-24	9595772	260.379
DSL:16-24	9589550	365.895
MO:22-32	23273200	533.943
MO:24-36	23717008	545.215
MO:28-40	13234873	502.453
BUNKC:10-40	33778008	1077.220
BUNKC:12-40	33765032	1105.679

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

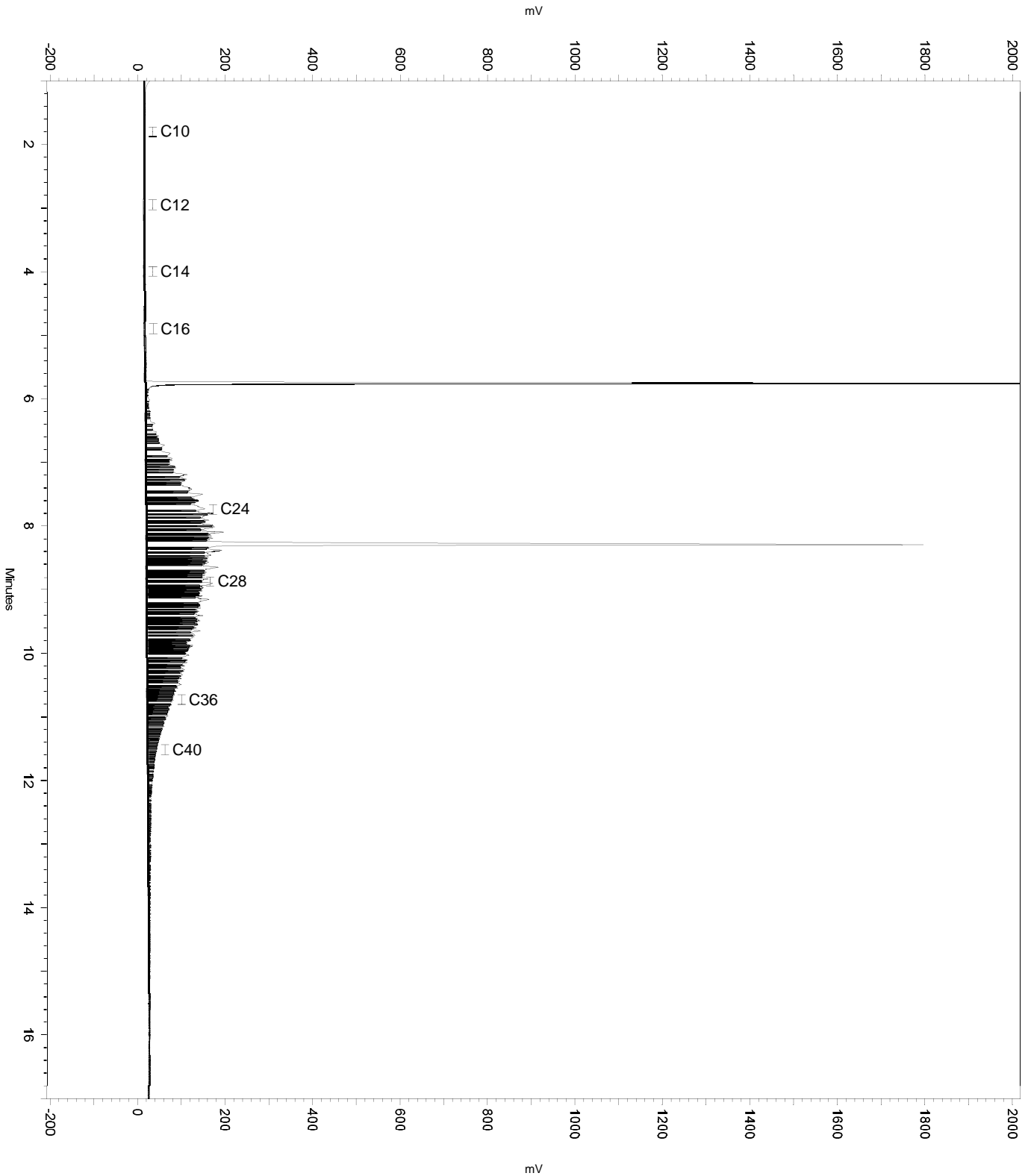
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	5.377	15.452	0
No	Split Peak	5.85	0	0
No	Manual Baseline	8.144	8.356	0
No	Split Peak	8.324	0	0
No	Reassign Peak	8.328	8.288	0

Sample Name: ccv,s38108,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\2018 old methods\TEH285.met
Run Date: 10/15/2018 2:13:35 PM
Analysis Date: 10/17/2018 6:07:03 AM
Instrument: GC26A Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\2018 old methods\TEH285.met
 Run Date: 10/15/2018 2:13:35 PM
 Analysis Date: 10/17/2018 6:06:56 AM
 Instrument: GC26A Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	29996	0.645
DSL:10-14	22150	1.018
DSL:10-22	4318340	78.101
DSL:10-24	5951249	104.604
DSL:10-28	11705574	203.104
DSL:12-24	5938277	122.526
DSL:12-28	11692602	237.628
DSL:14-24	5930054	160.910
DSL:16-24	5923832	226.028
MO:22-32	8601298	197.334
MO:24-36	7773143	178.692
MO:28-40	1797192	68.229
BUNKC:10-40	13352202	425.817
BUNKC:12-40	13339230	436.810

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

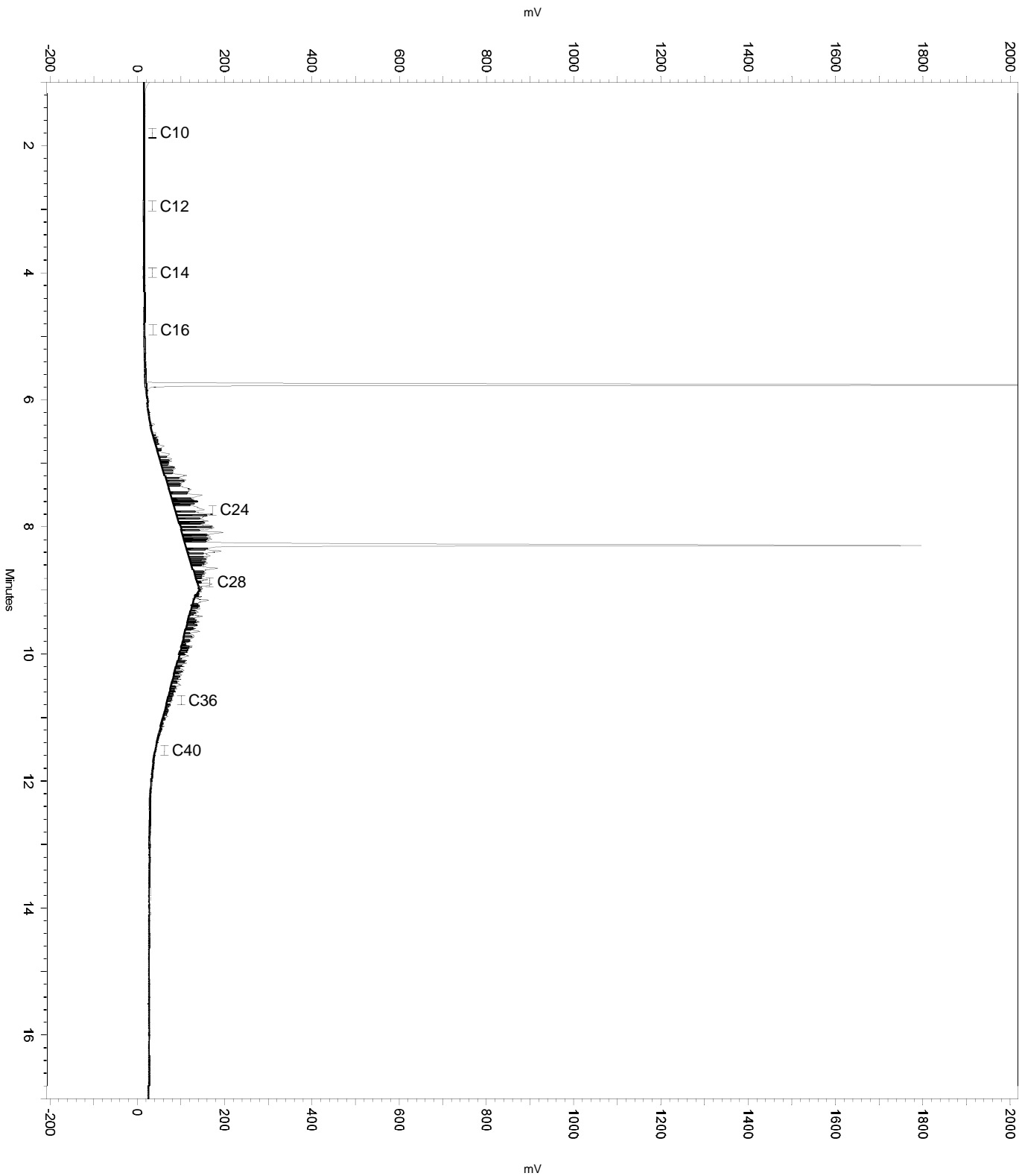
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Stop	5.377	15.452	0
No	Split Peak	5.85	0	0
No	Manual Baseline	8.144	8.356	0
No	Split Peak	8.324	0	0
No	Reassign Peak	8.328	8.288	0

Sample Name: ccv,s38108,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\2018 old methods\TEH285.met
Run Date: 10/15/2018 2:13:35 PM
Analysis Date: 10/17/2018 6:06:56 AM
Instrument: GC26A Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

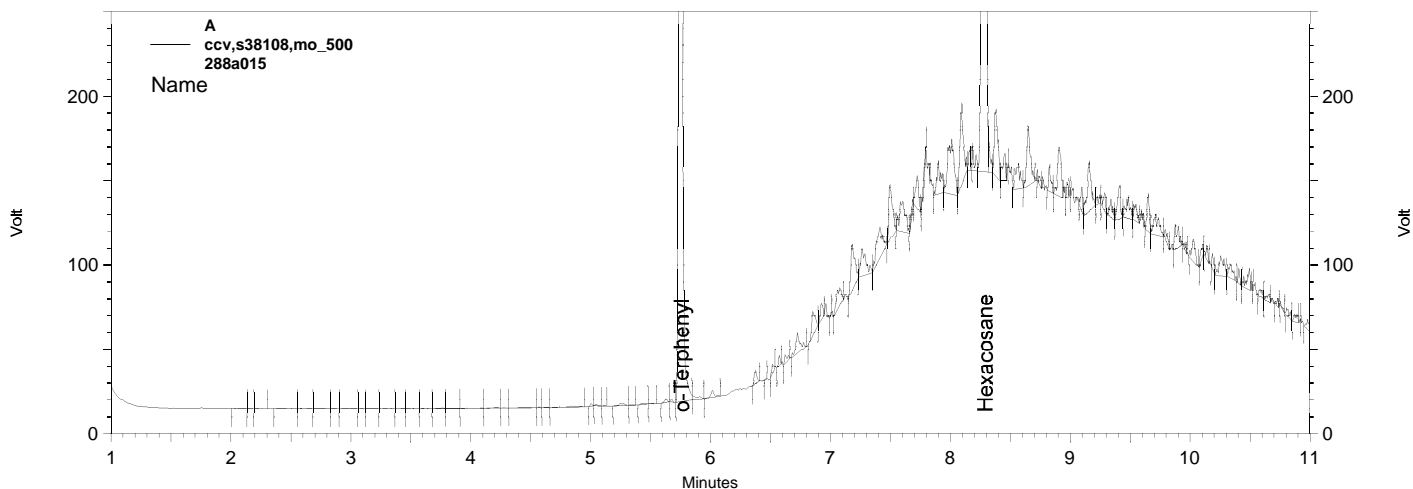


Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr28336108,mo_500
 Run Date: 10/15/2018 2:13:35 PM
 Analysis Date: 10/17/2018 6:06:06 AM
 Instrument: GC26A Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.762	3494934	51.594
Hexacosane	8.295	2824669	51.506



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr28336108,mo_500

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a015				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Stop	5.377	15.452	0
Yes	Split Peak	5.85	0	0
Yes	Manual Baseline	8.144	8.356	0
Yes	Split Peak	8.324	0	0
Yes	Reassign Peak	8.328	8.288	0

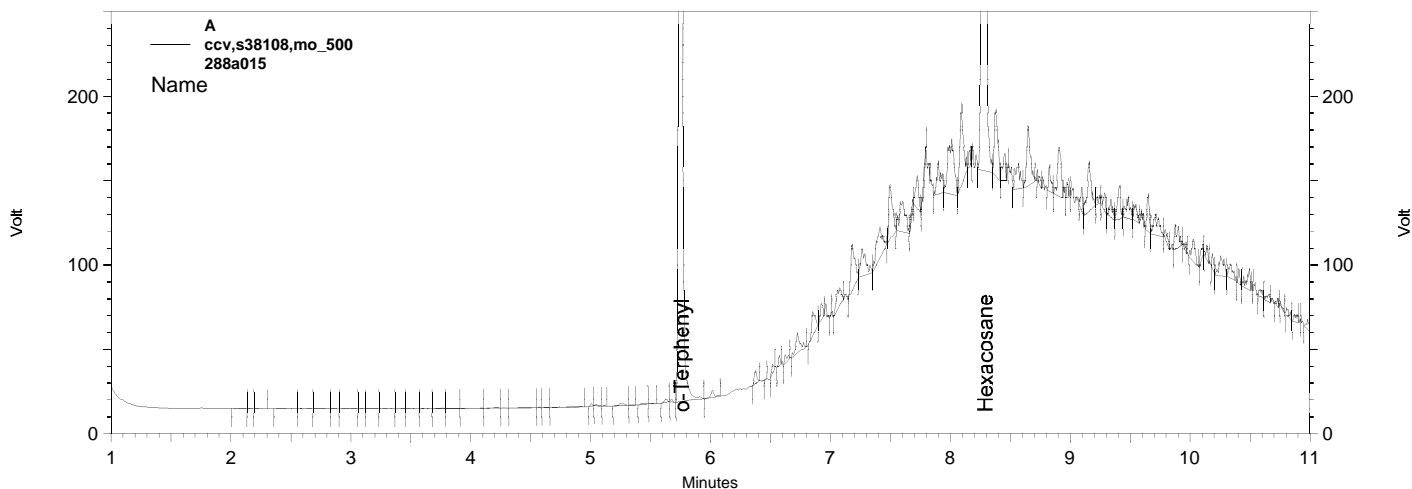
Curtis & Tompkins Ltd.

Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr28336108.met
 Run Date: 10/15/2018 2:13:35 PM
 Analysis Date: 10/17/2018 6:06:00 AM
 Instrument: GC26A Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.762	3503012	51.713
Hexacosane	8.295	2837193	51.735



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr28336108,mo_500

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Stop	5.377	15.452	0
No	Split Peak	5.85	0	0
No	Manual Baseline	8.144	8.356	0
No	Split Peak	8.324	0	0
No	Reassign Peak	8.328	8.288	0

Curtis & Tompkins Ltd.

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

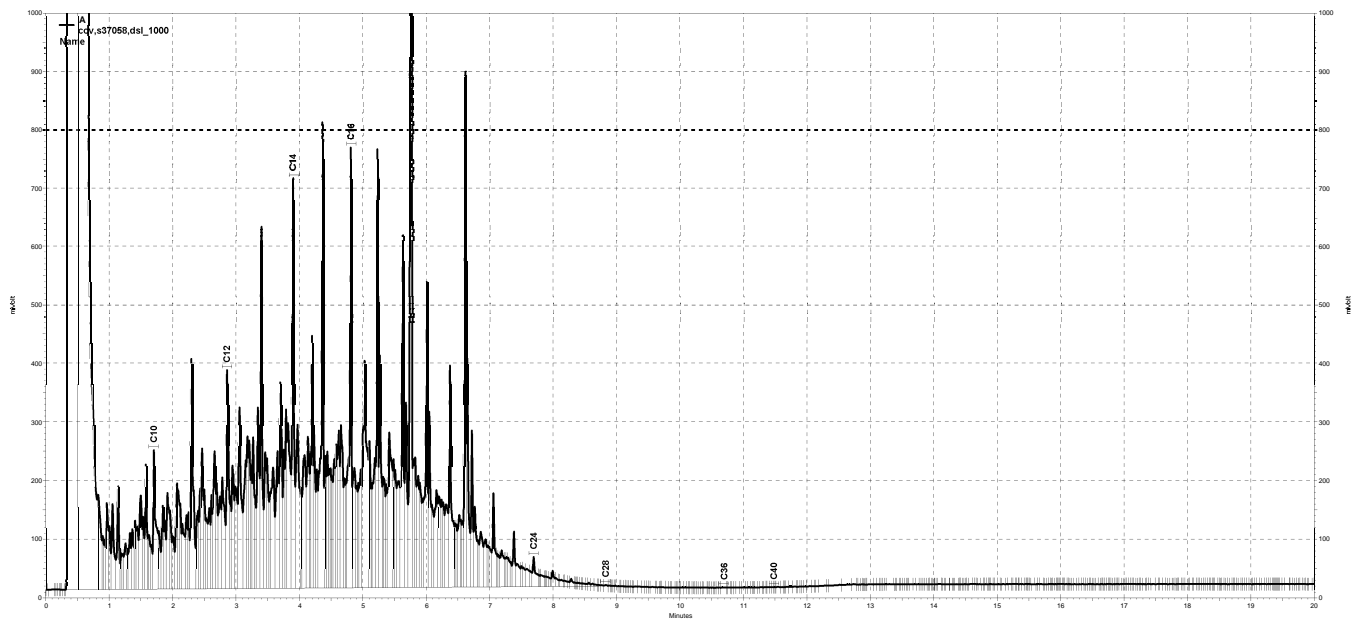
Inst : GC26A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 868415085030 File : 288a030 Time : 15-OCT-2018 21:42
 Standards: S37058

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	868380491001	21-SEP-2018	56893	62457	1000	1098	mg/L	10	15	
o-Terphenyl	868397771001	03-OCT-2018	67739	76455	50.00	56.43	mg/L	13	15	

CB1 10/16/18 : ccv,s37058,dsl_1000

CB1 10/16/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/16/18 Reviewer: EAH Date: 10/16/18



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a030, A

Sample Name: **ccv,s37058,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
 Run Date: 10/15/2018 9:42:59 PM
 Analysis Date: 10/16/2018 6:35:21 AM
 Instrument: GC26A Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	36899904	793.387
DSL:10-14	24707384	1135.657
DSL:10-22	64863032	1173.098
DSL:10-24	66279832	1164.986
DSL:10-28	66849176	1159.903
DSL:12-24	57526680	1186.967
DSL:12-28	58096024	1180.683
DSL:14-24	43995096	1193.796
DSL:16-24	31678430	1208.711
MO:22-32	2717977	62.357
MO:24-36	812862	18.686
MO:28-40	38118	1.447
BUNKC:10-40	66875648	2132.742
BUNKC:12-40	58122496	1903.295

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

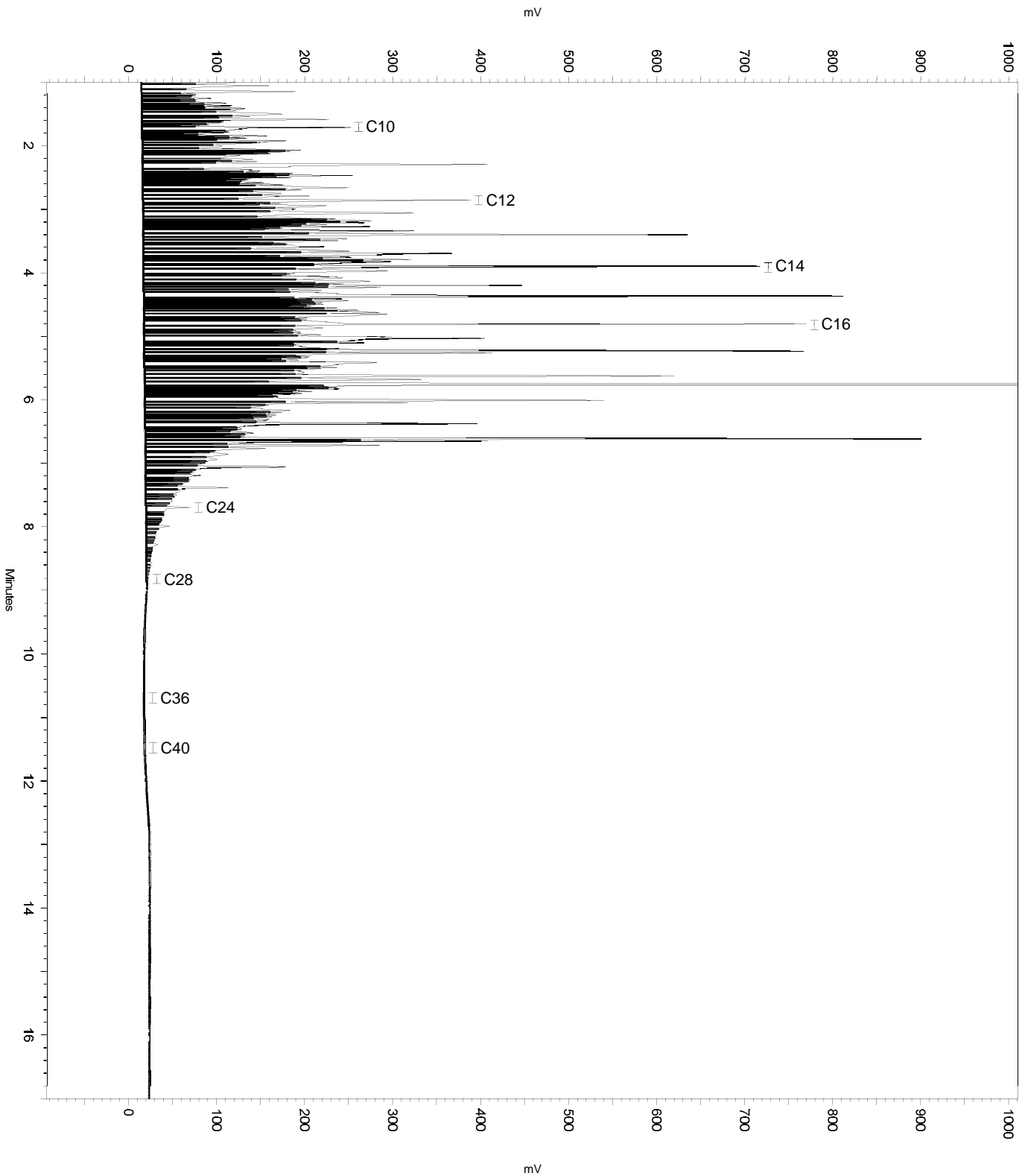
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	5.711	6.121	0
No	Split Peak	5.722	0	0
No	Split Peak	5.785	0	0

Sample Name: ccv,s37058,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a030
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
Run Date: 10/15/2018 9:42:59 PM
Analysis Date: 10/16/2018 6:35:21 AM
Instrument: GC26A Vial: 30 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

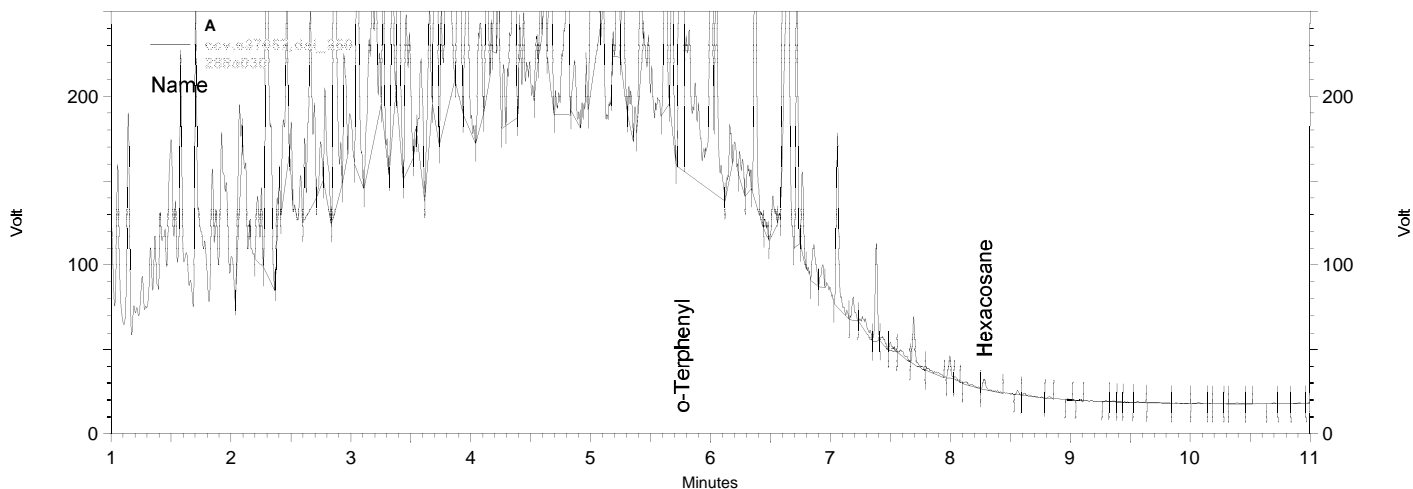


Sample Name: **ccv,s37057,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 9:42:59 PM
 Analysis Date: 10/16/2018 6:32:31 AM
 Instrument: GC26A Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.765	3822748	56.433
Hexacosane	8.285	12156	0.222



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283\37057,dsl_250

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

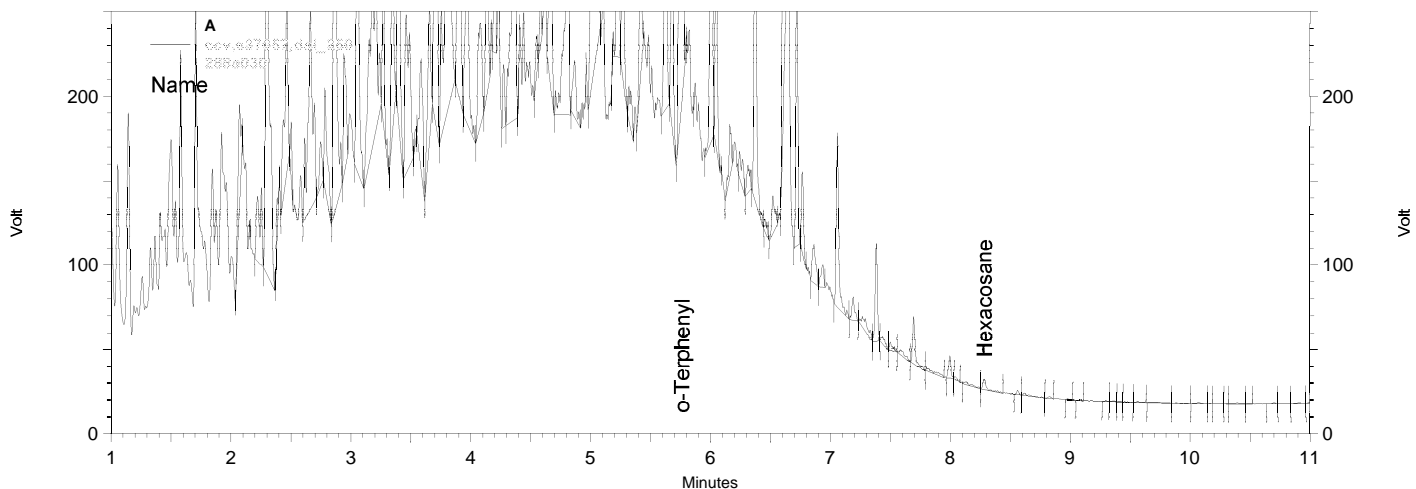
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a030				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	5.711	6.121	0
Yes	Split Peak	5.722	0	0
Yes	Split Peak	5.785	0	0

Sample Name: **ccv,s37057,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 9:42:59 PM
 Analysis Date: 10/16/2018 6:24:49 AM
 Instrument: GC26A Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.765	3703087	54.667
Hexacosane	8.285	12156	0.222



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met, dsl_250

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

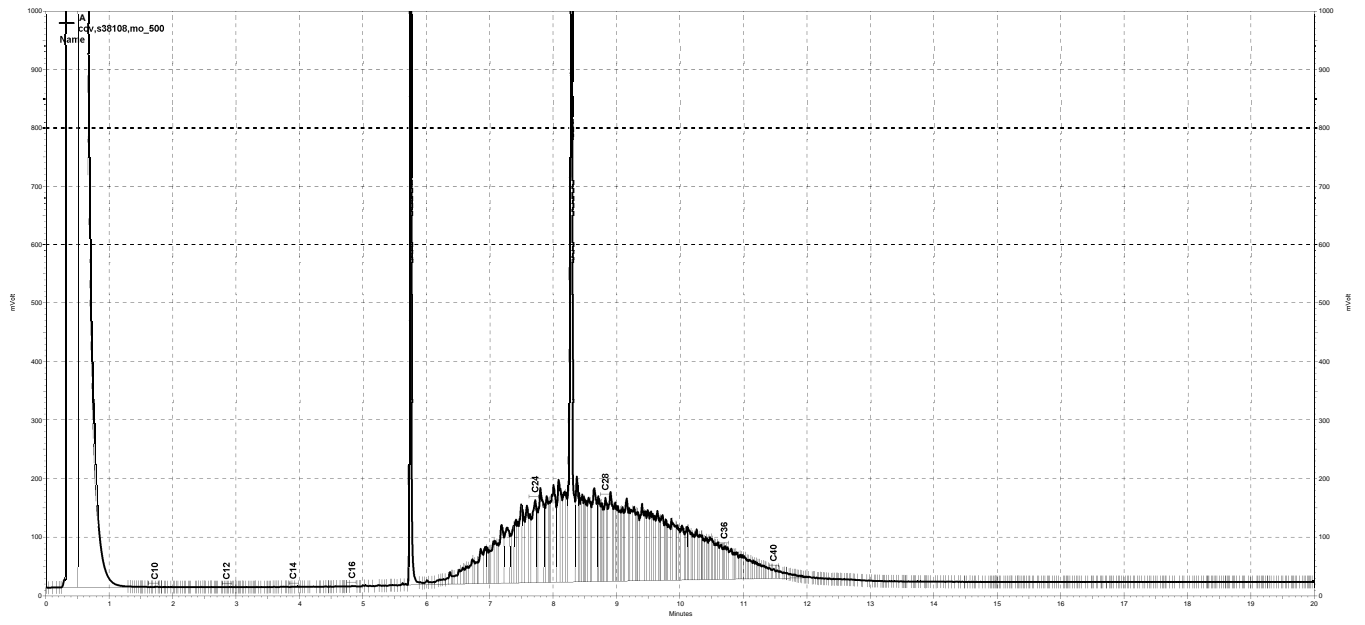
ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868415085031 File : 288a031 Time : 15-OCT-2018 22:10
Standards: S38108

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	868409292001	11-OCT-2018	43500	42075	500.0	483.6	mg/L	-3	15	
o-Terphenyl	868397771001	03-OCT-2018	67739	73646	50.00	54.36	mg/L	9	15	

CB1 10/16/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/16/18 Reviewer: EAH Date: 10/16/18
Page 1 of 1 868415085031



— \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a031, A

Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
 Run Date: 10/15/2018 10:10:56 PM
 Analysis Date: 10/16/2018 6:34:56 AM
 Instrument: GC26A Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	35730	0.768
DSL:10-14	25695	1.181
DSL:10-22	5743289	103.872
DSL:10-24	9605451	168.833
DSL:10-28	21822926	378.651
DSL:12-24	9587552	197.823
DSL:12-28	21805030	443.143
DSL:14-24	9580641	259.968
DSL:16-24	9572834	365.258
MO:22-32	23847282	547.114
MO:24-36	24026652	552.334
MO:28-40	12981326	492.827
BUNKC:10-40	33931000	1082.099
BUNKC:12-40	33913104	1110.528

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

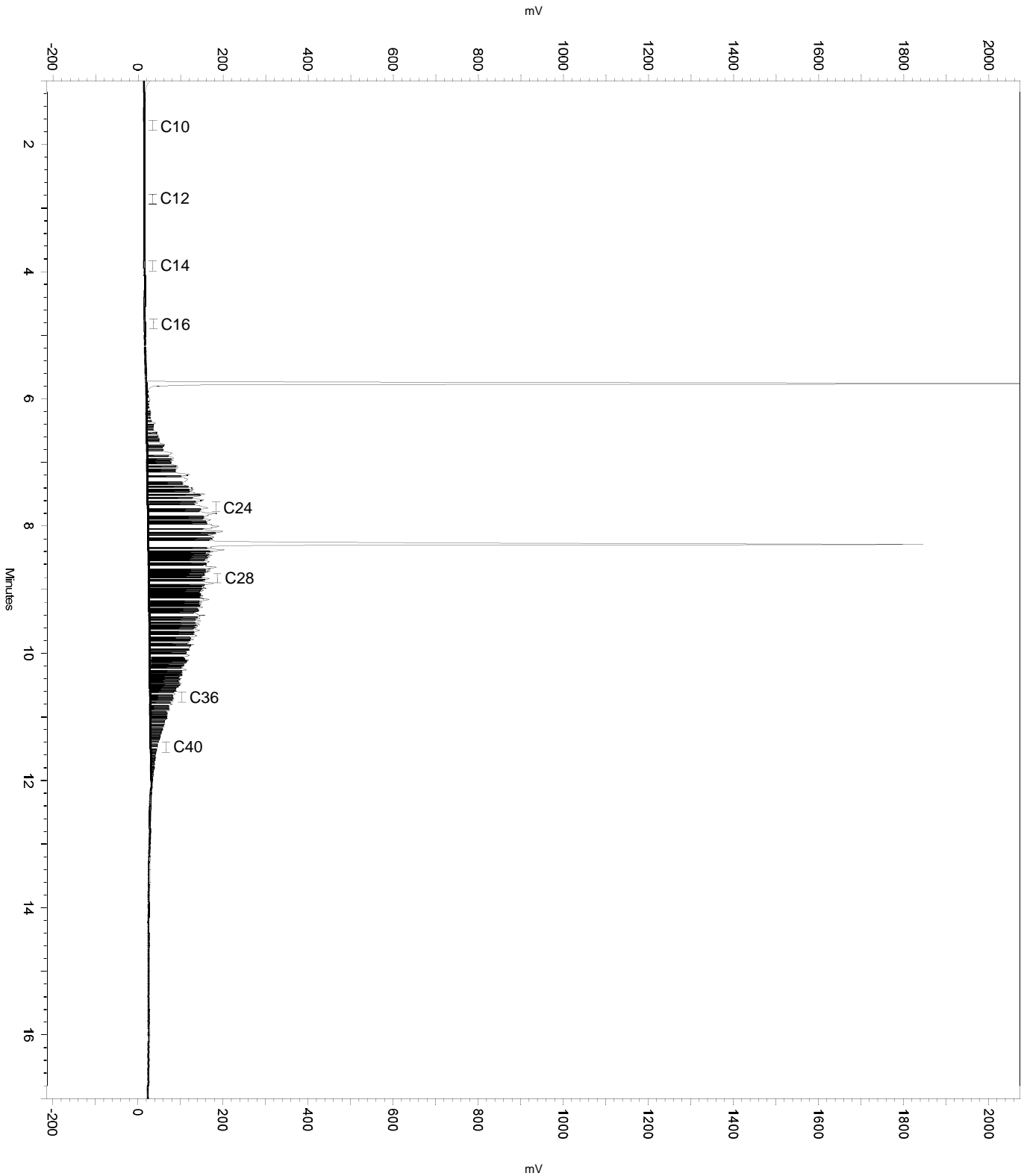
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	5.711	5.966	0
No	Split Peak	5.863	0	0
Yes	Move BL Stop	6.132	12.125	0
No	Manual Peak	8.05	8.605	0
No	Split Peak	8.225	0	0
No	Split Peak	8.33	0	0

Sample Name: ccv,s38108,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a031
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
Run Date: 10/15/2018 10:10:56 PM
Analysis Date: 10/16/2018 6:34:56 AM
Instrument: GC26A Vial: 31 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
 Run Date: 10/15/2018 10:10:56 PM
 Analysis Date: 10/16/2018 6:34:13 AM
 Instrument: GC26A Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

A Results Name	Area	Concentration (ppm)
JP5:10-16	35730	0.768
DSL:10-14	25695	1.181
DSL:10-22	4408206	79.726
DSL:10-24	6186435	108.738
DSL:10-28	12256303	212.660
DSL:12-24	6168536	127.277
DSL:12-28	12238404	248.721
DSL:14-24	6161625	167.194
DSL:16-24	6153818	234.803
MO:22-32	8871342	203.530
MO:24-36	7885037	181.264
MO:28-40	1587778	60.279
BUNKC:10-40	13740617	438.204
BUNKC:12-40	13722718	449.368

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

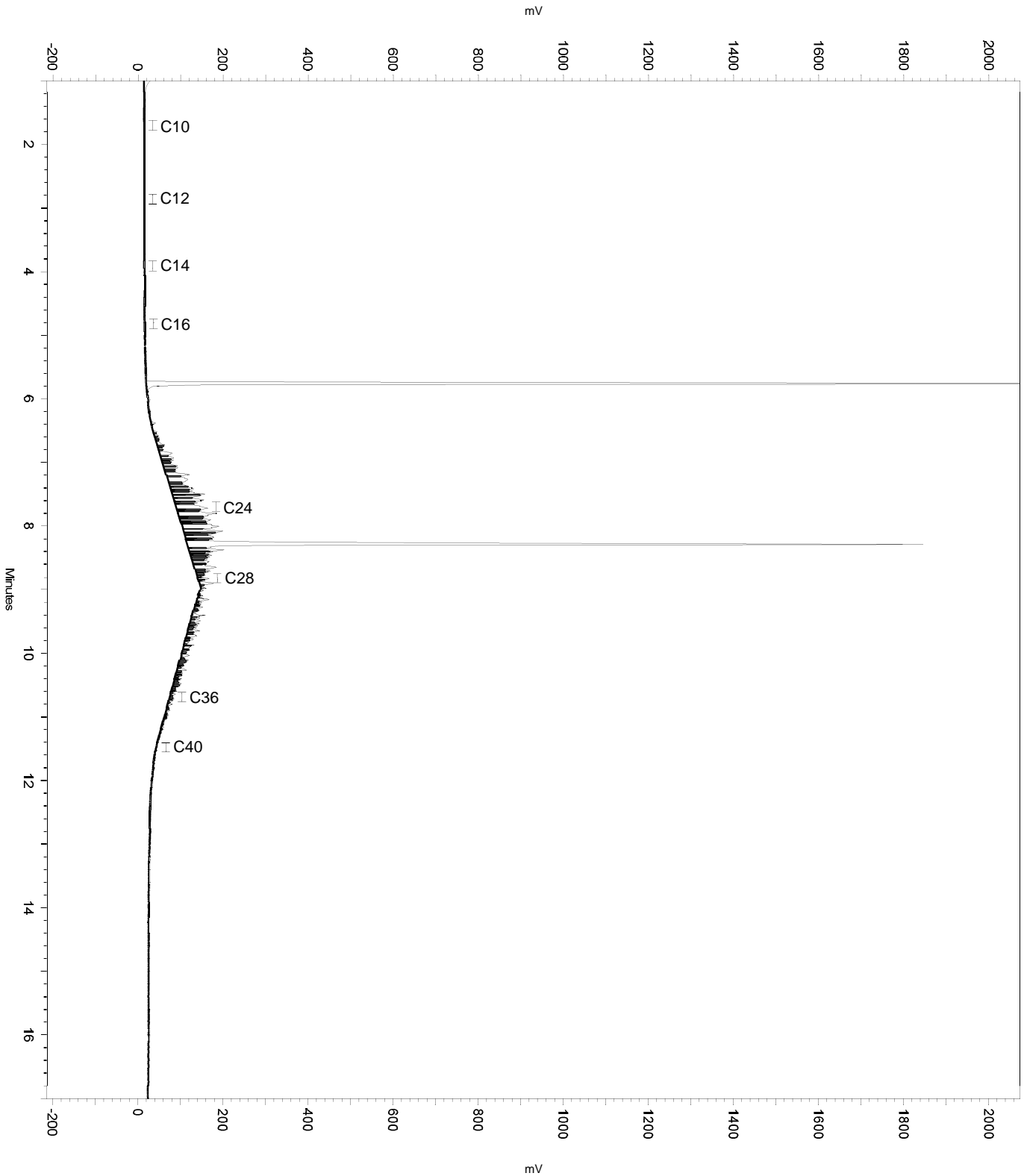
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0
Yes	Reset Baseline	8.989	0	0
Yes	Valley to Valley	12.81	17.367	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	5.711	5.966	0
No	Split Peak	5.863	0	0
No	Manual Peak	8.05	8.605	0
No	Split Peak	8.225	0	0
No	Split Peak	8.33	0	0

Sample Name: ccv,s38108,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a031
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\TEH288.met
Run Date: 10/15/2018 10:10:56 PM
Analysis Date: 10/16/2018 6:34:13 AM
Instrument: GC26A Vial: 31 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

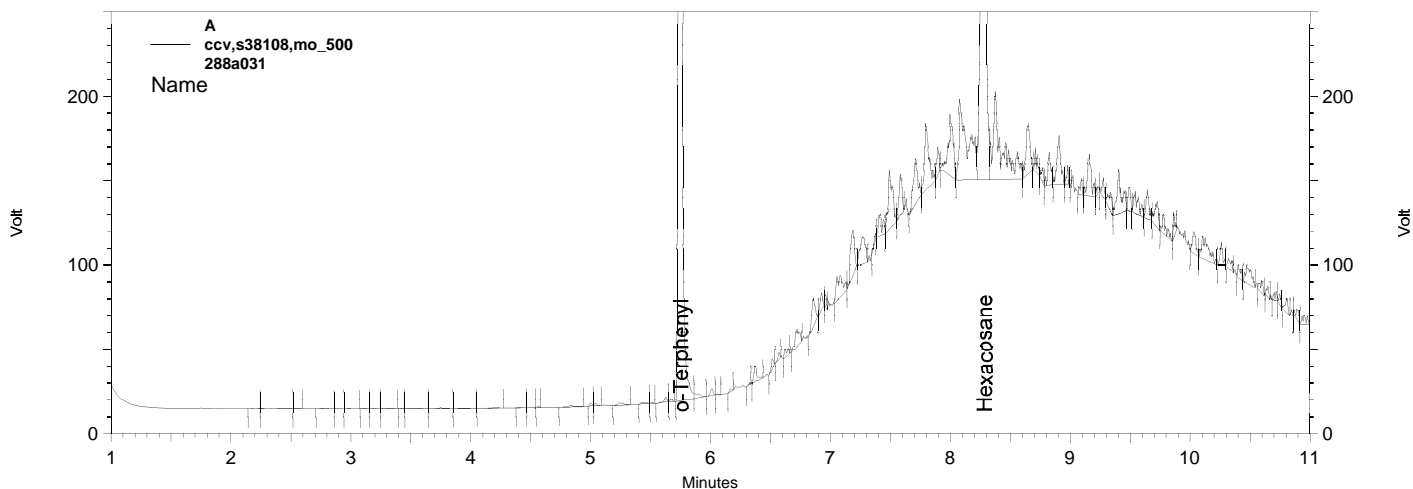


Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 10:10:56 PM
 Analysis Date: 10/16/2018 6:33:21 AM
 Instrument: GC26A Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.757	3682294	54.360
Hexacosane	8.290	2989265	54.508



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met, mo_500

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a031				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	5.711	5.966	0
Yes	Split Peak	5.863	0	0
Yes	Manual Peak	8.05	8.605	0
Yes	Split Peak	8.225	0	0
Yes	Split Peak	8.33	0	0

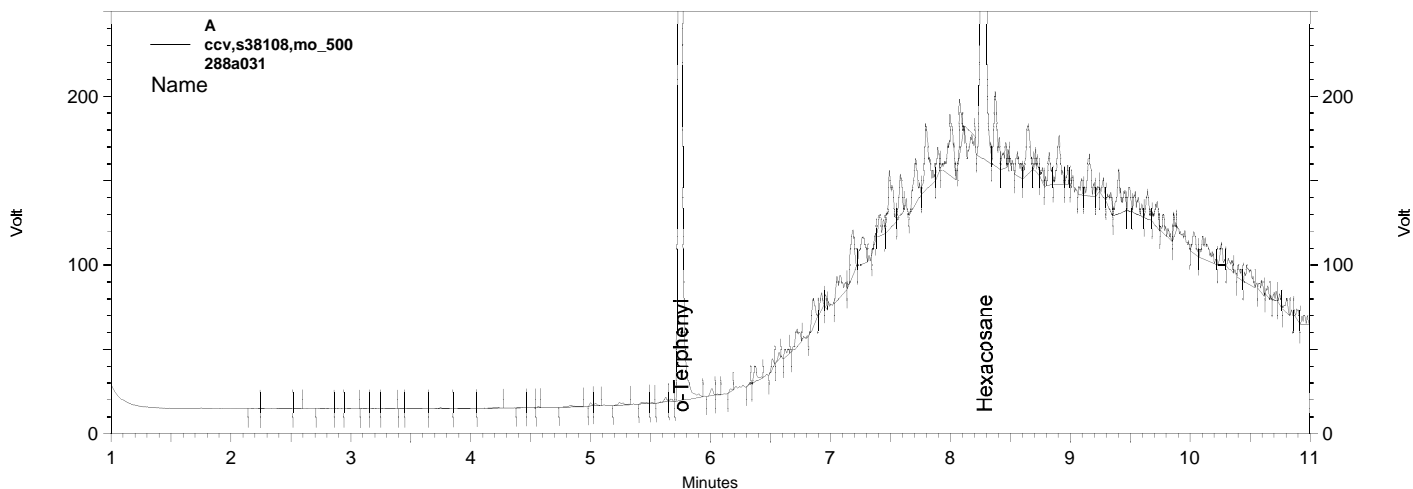
Curtis & Tompkins Ltd.

Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC26\Sequence\2018\288.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met
 Run Date: 10/15/2018 10:10:56 PM
 Analysis Date: 10/16/2018 6:32:39 AM
 Instrument: GC26A Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC26a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	5.757	3688628	54.453
Hexacosane	8.290	2918463	53.217



\\Lims\gdrive\ezchrom\Projects\GC26\Method\abothsurr283.met, mo_500

 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0
Yes	Reset Baseline at Valley	6.583	0	0
Yes	Reset Baseline at Valley	8.006	0	0
Yes	Reset Baseline at Valley	8.646	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Data File: \\kraken\gdrive\ezchrom\Projects\GC26\data\2018\288a031				
None				

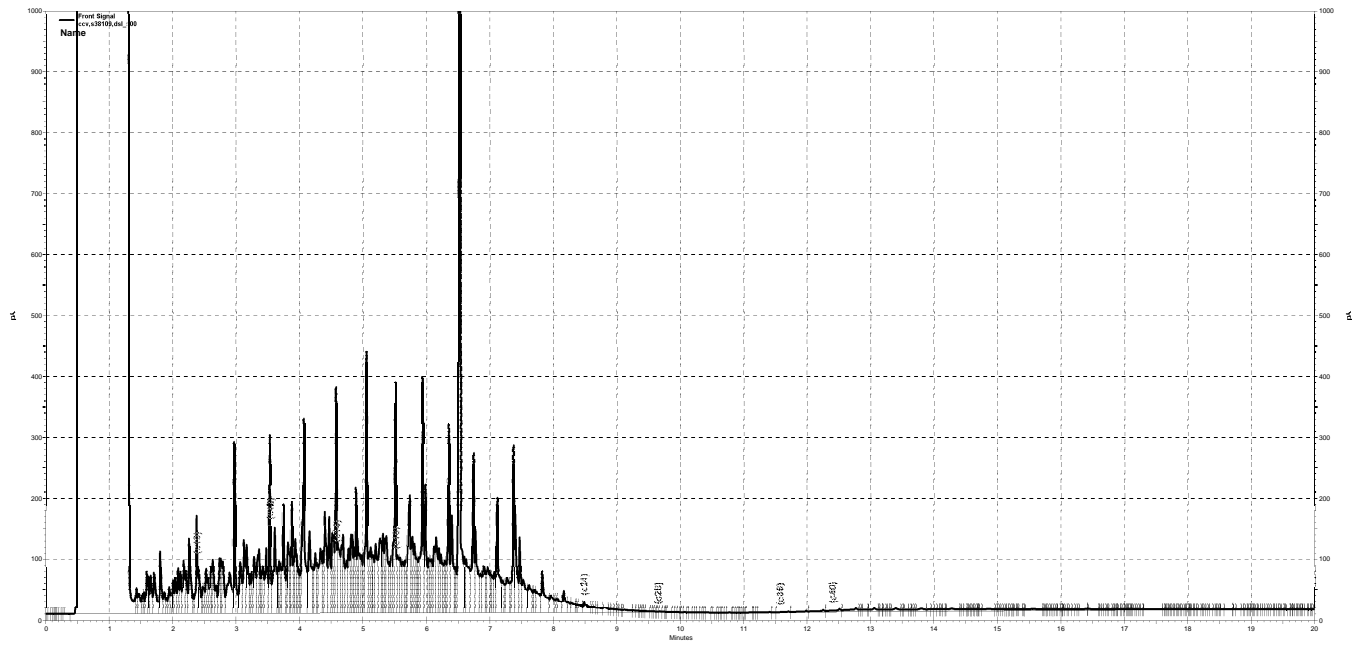
ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : DSL_500 IDF : 1.0
 Seqnum : 978407882003 File : 283a003 Time : 10-OCT-2018 06:53
 Standards: S38109

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978335887001	21-AUG-2018	465404	461729	500.0	496.1	mg/L	-1	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	589135	50.00	53.33	mg/L	7	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a003.dat, Front Signal

Sample Name: **ccv,s38109,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a003.dat
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2018\283.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\TEH_281.met**
 Run Date: **10/10/2018 6:53:04 AM**
 Analysis Date: **10/10/2018 8:17:32 AM**
 Instrument: **GC27A Vial: 3 Operator: teh4**
 Sample Amount: **1**

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		138826026	293.086
DSL:10-14		91107318	512.508
DSL:10-22		255206093	563.265
DSL:10-24		260321475	559.345
DSL:10-28		262369137	556.096
DSL:12-24		226970919	579.622
DSL:12-28		229018581	575.444
DSL:14-24		178506508	588.850
DSL:16-24		130209638	623.217
MO:22-32		9266054	28.967
MO:24-36		2829889	8.748
MO:28-40		498282	2.551
BUNKC:10-40		262806201	1300.567
BUNKC:12-40		229455645	1171.299

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

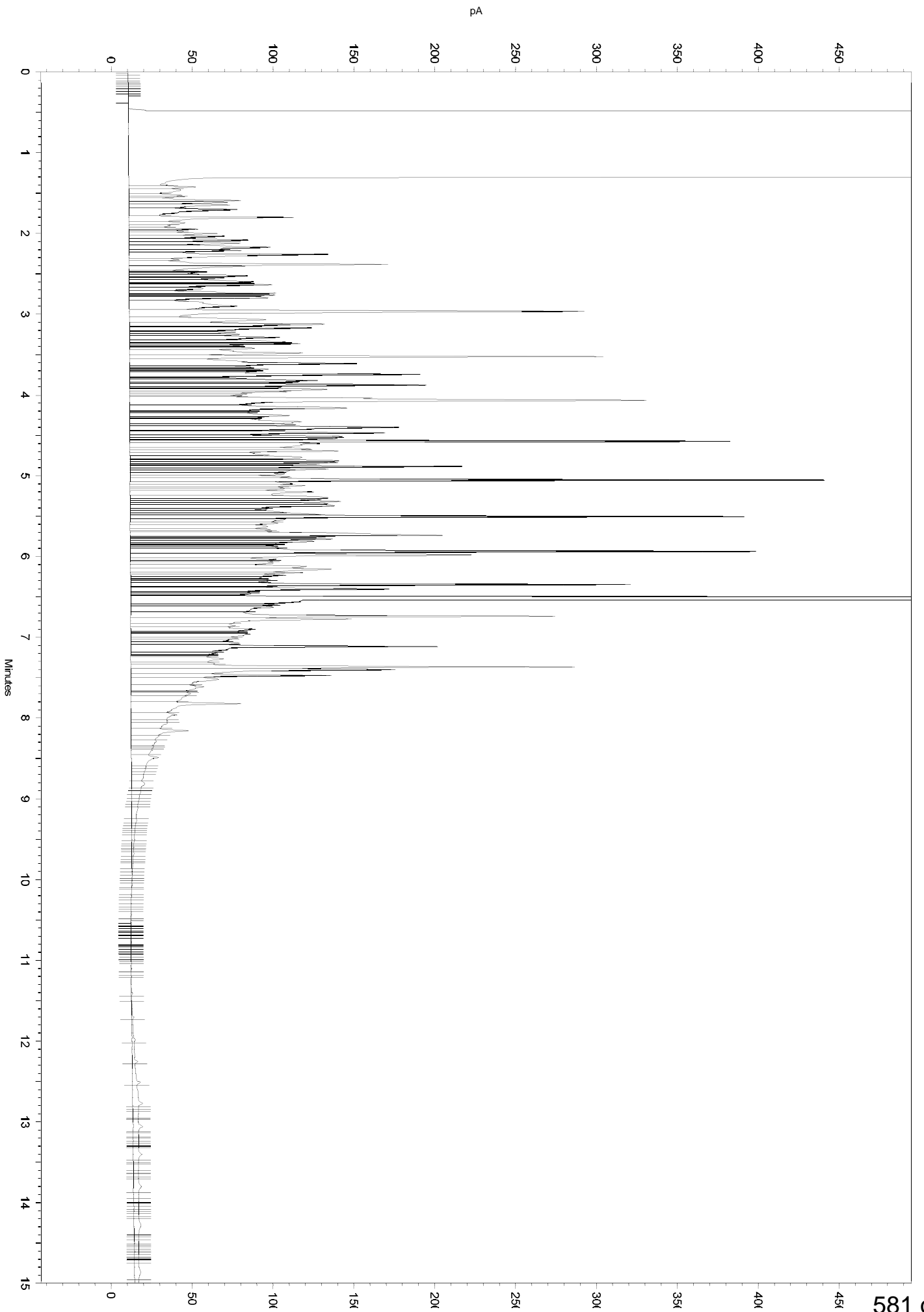
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a003.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Peak          6.478     6.833    0
No Split Peak           6.548     0         0
Yes Move BL Start       1.503     0.385    0
  
```



Sample Name: ccv,s38109,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a003.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 6:53:04 AM
 Analysis Date: 10/10/2018 8:05:21 AM
 Instrument: GC27A Vial: 3 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		118497850	250.170
DSL:10-14		75407726	424.192
DSL:10-22		227277620	501.624
DSL:10-24		231250258	496.881
DSL:10-28		232371338	492.515
DSL:12-24		206116977	526.367
DSL:12-28		207238057	520.717
DSL:14-24		164317844	542.045
DSL:16-24		120784669	578.107
MO:22-32		6875043	21.492
MO:24-36		1681735	5.199
MO:28-40		428430	2.193
BUNKC:10-40		232780369	1151.976
BUNKC:12-40		207647088	1059.973

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

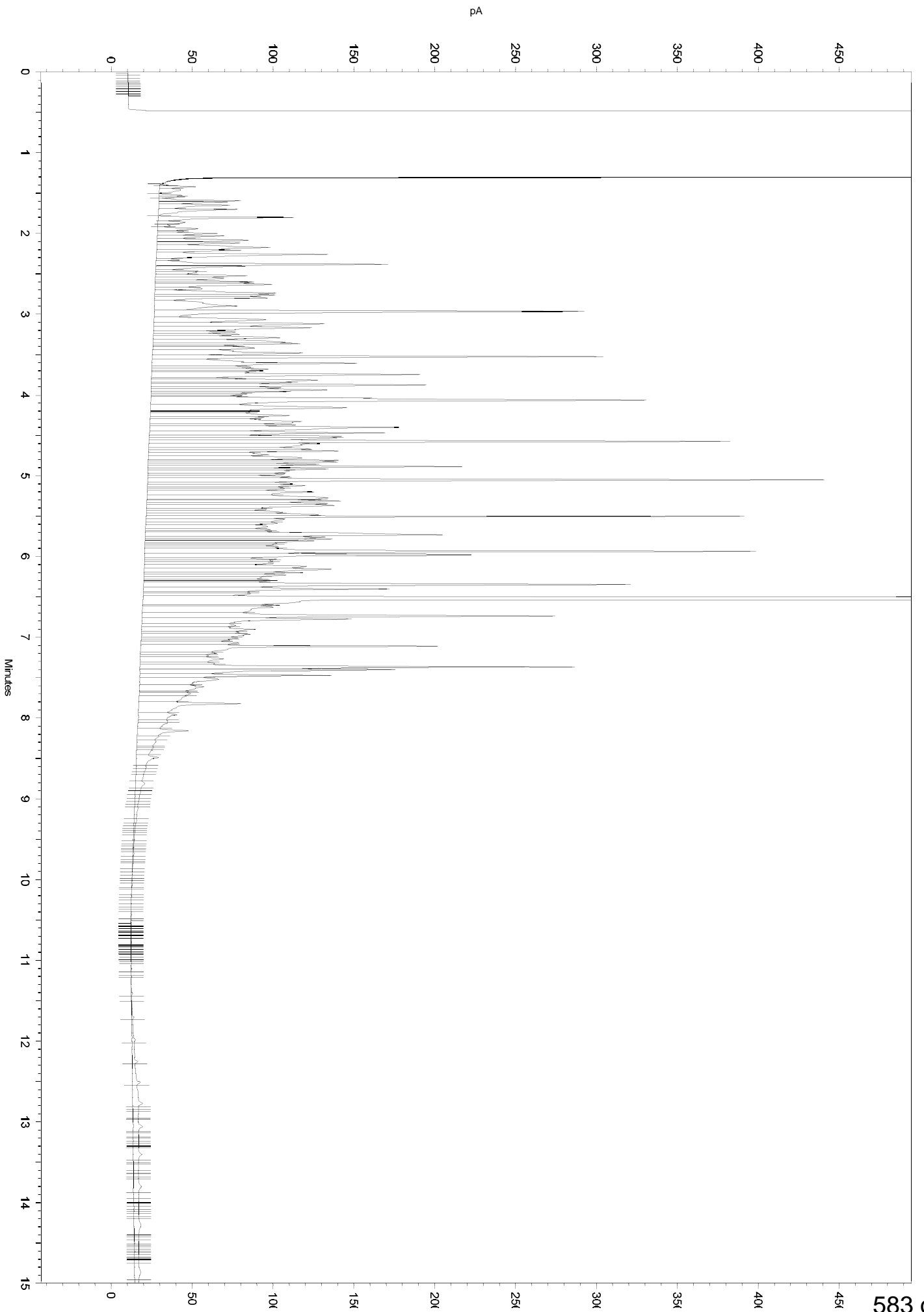
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a003.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.478	6.833	0
No	Split Peak	6.548	0	0



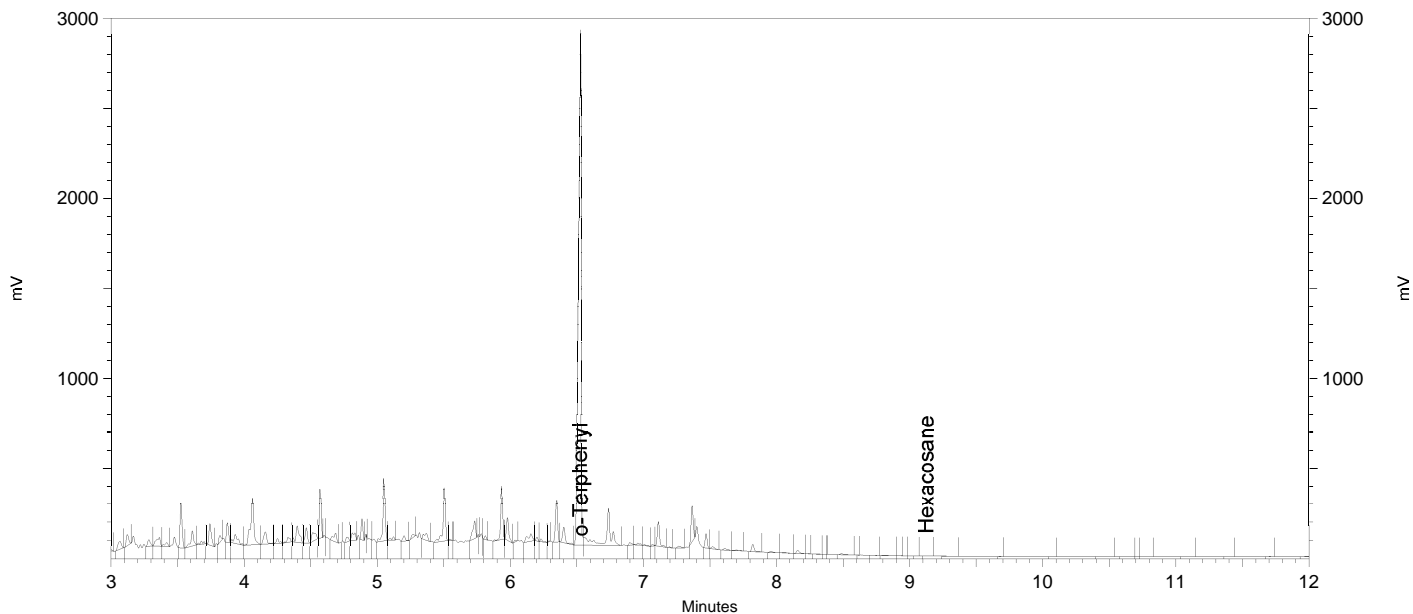
Sample Name: ccv,s38109,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a003.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 6:53:04 AM
 Analysis Date: 10/10/2018 8:03:57 AM
 Instrument: GC27A Vial: 3 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.527	29456761	53.328
Hexacosane	9.123	10584	0.023



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

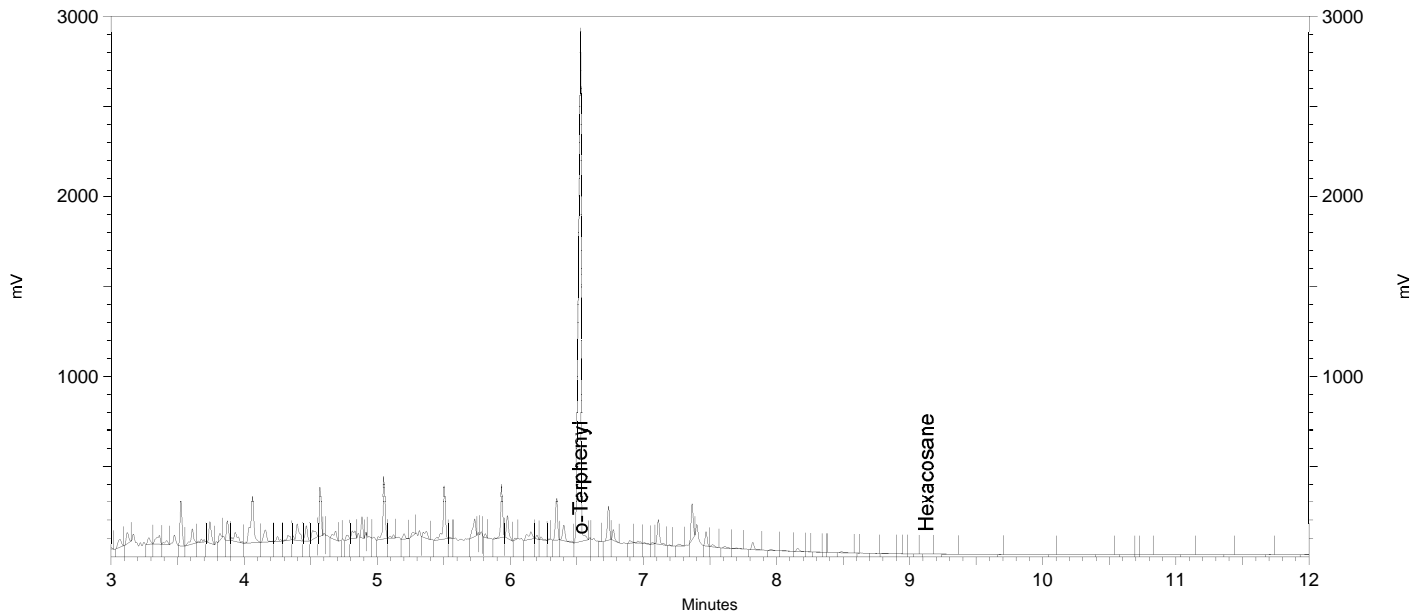
=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a003.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.478  6.833  0
Yes Split Peak          6.548  0       0
  
```


Sample Name: ccv,s38109,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a003.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 6:53:04 AM
 Analysis Date: 10/10/2018 7:49:46 AM
 Instrument: GC27A Vial: 3 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.527	29604658	53.596
Hexacosane	9.123	10584	0.023



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a003.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

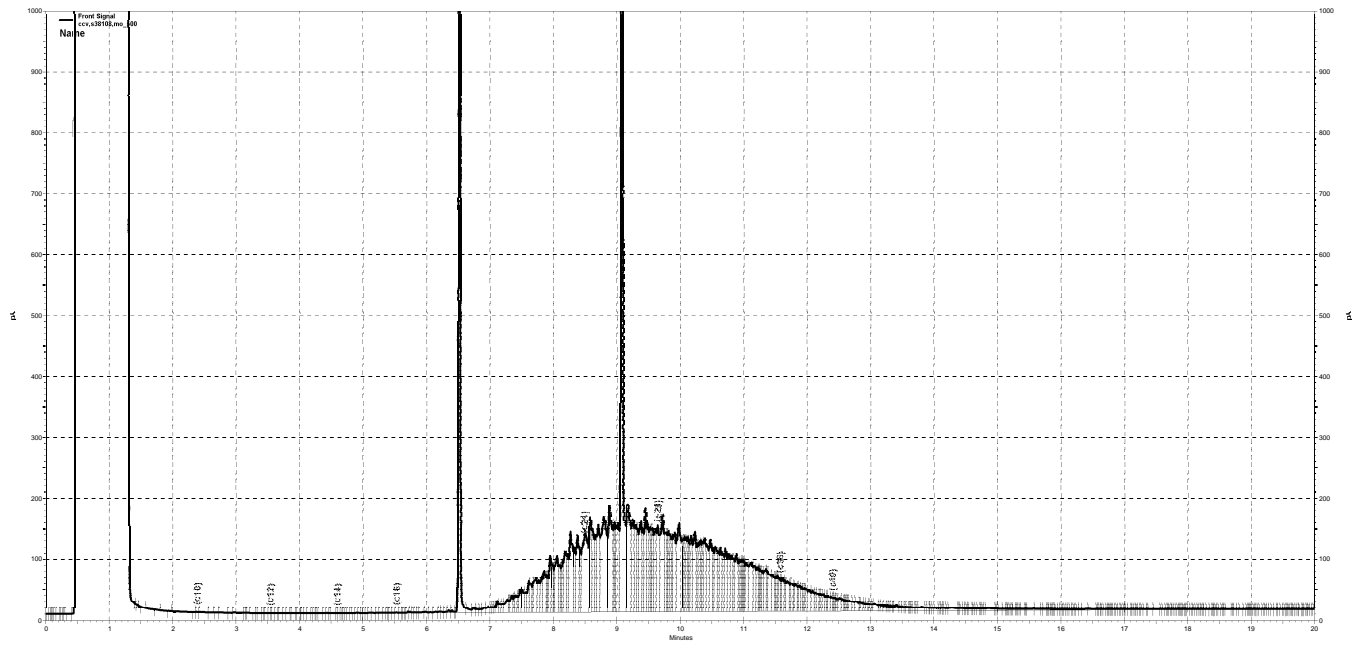

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978407882004 File : 283a004 Time : 10-OCT-2018 07:18
 Standards: S38108

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978335887002	21-AUG-2018	323479	332383	500.0	513.8	mg/L	3	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	570009	50.00	51.60	mg/L	3	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a004.dat, Front Signal

Sample Name: **ccv,s38108,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a004.dat
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2018\283.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\TEH_281.met**
 Run Date: **10/10/2018 7:18:15 AM**
 Analysis Date: **10/10/2018 8:17:38 AM**
 Instrument: **GC27A Vial: 4 Operator: teh4**
 Sample Amount: **1**

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		132515	0.280
DSL:10-14		73589	0.414
DSL:10-22		44033412	97.186
DSL:10-24		72441018	155.652
DSL:10-28		170815826	362.047
DSL:12-24		72392164	184.870
DSL:12-28		170766972	429.078
DSL:14-24		72372423	238.739
DSL:16-24		72328941	346.185
MO:22-32		182215898	569.628
MO:24-36		188633553	583.140
MO:28-40		105147483	538.270
BUNKC:10-40		265409346	1313.449
BUNKC:12-40		265360492	1354.582

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

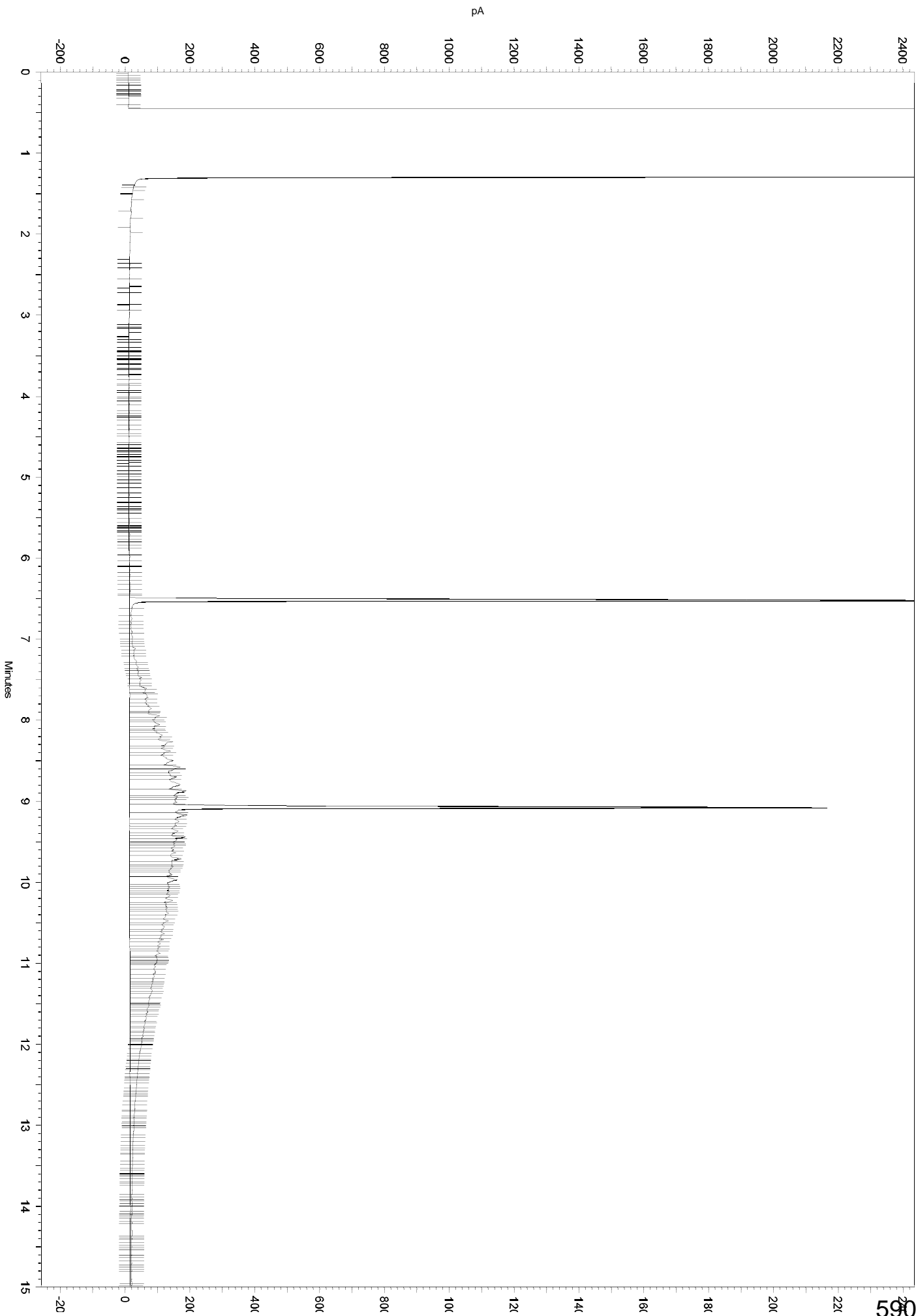
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0     0
Yes Threshold            0       0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a004.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
No Manual Peak          6.468  6.823   0
No Split Peak           6.475   0     0
No Split Peak           6.619   0     0
No Manual Peak          8.853  9.576   0
No Split Peak           9.038   0     0
No Split Peak           9.119   0     0
  
```



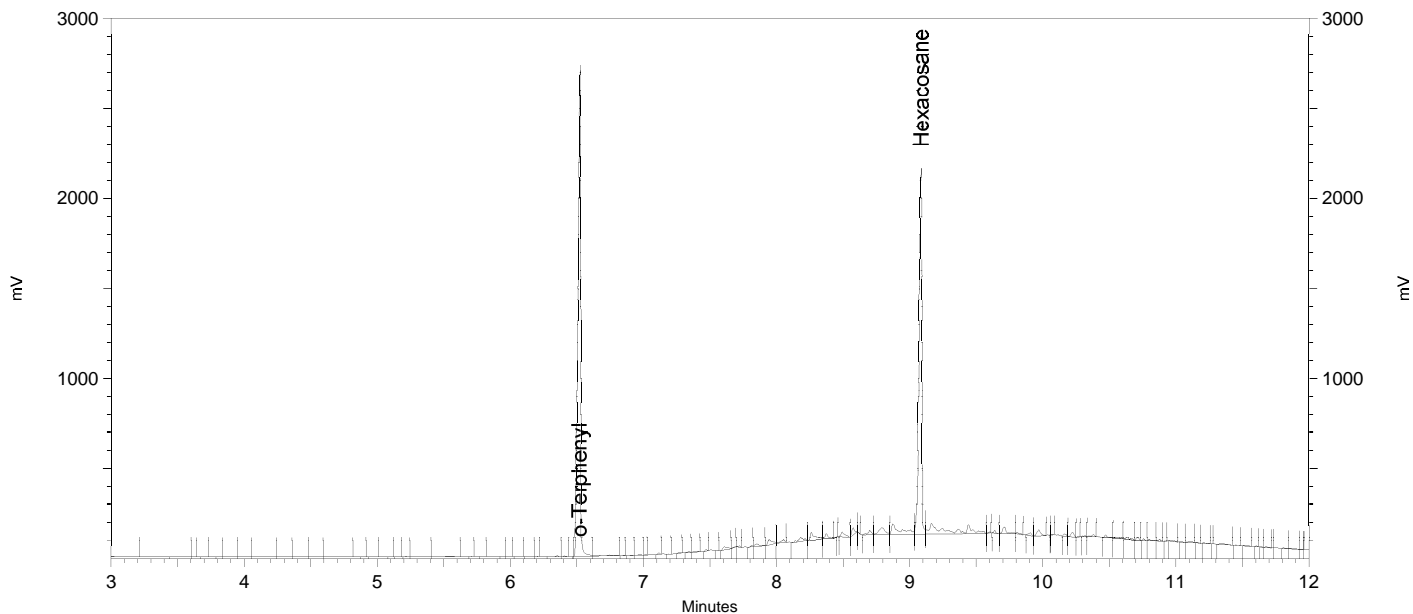
Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a004.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 7:18:15 AM
 Analysis Date: 10/10/2018 8:04:47 AM
 Instrument: GC27A Vial: 4 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.523	28500452	51.596
Hexacosane	9.082	22442207	48.726



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a004.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.468  6.823  0
Yes Split Peak          6.475  0       0
Yes Split Peak          6.619  0       0
Yes Manual Peak         8.853  9.576  0
  
```

Yes	Split Peak	9.038	0	0
Yes	Split Peak	9.119	0	0

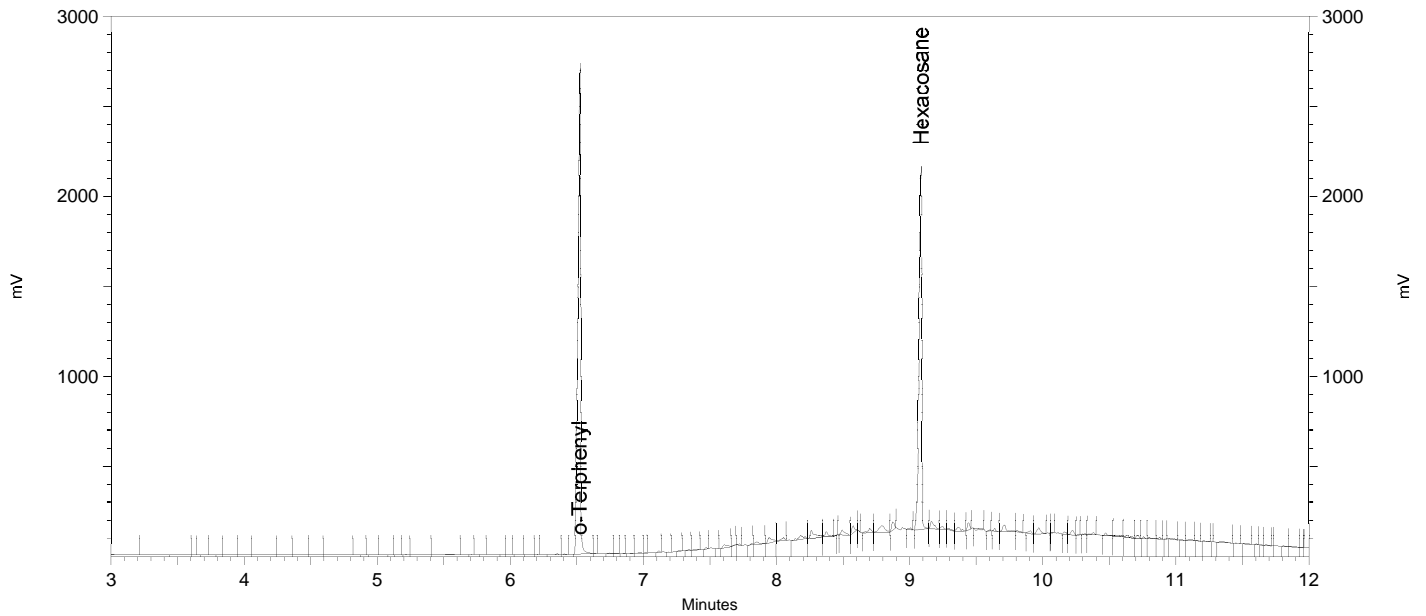
Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a004.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 7:18:15 AM
 Analysis Date: 10/10/2018 8:04:06 AM
 Instrument: GC27A Vial: 4 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.523	28375329	51.370
Hexacosane	9.082	22003073	47.772



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a004.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

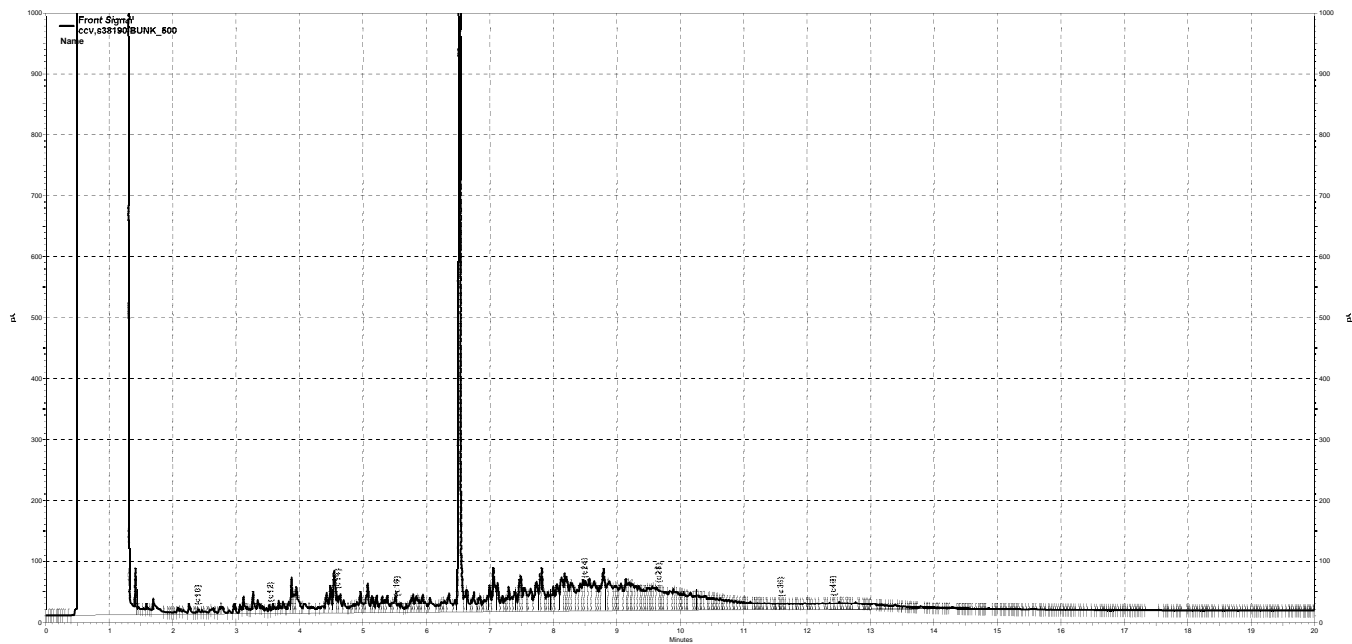
ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : BUNK_500 IDF : 1.0
 Seqnum : 978407882013 File : 283a013 Time : 10-OCT-2018 13:41
 Cal : 978348840001 Caldate : 30-AUG-2018
 Standards: S38190

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	552372	607845	50.00	55.02	mg/L	10	15	

CB1 10/10/18 : Corrected automatically drawn baseline.

Analyst: CB1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a013.dat, Front Signal

Sample Name: **ccv,s38190,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a013.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 1:41:00 PM
 Analysis Date: 10/10/2018 2:03:22 PM
 Instrument: GC27 (Offline)A Vial: 13 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		20939839	44.208
DSL:10-14		13424994	75.520
DSL:10-22		76026855	167.799
DSL:10-24		87456349	187.915
DSL:10-28		109527711	232.146
DSL:12-24		83670629	213.672
DSL:12-28		105741991	265.693
DSL:14-24		76308347	251.723
DSL:16-24		67984140	325.390
MO:22-32		47345112	148.006
MO:24-36		41277932	127.606
MO:28-40		22940855	117.439
BUNKC:10-40		129770280	642.203
BUNKC:12-40		125984560	643.111

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

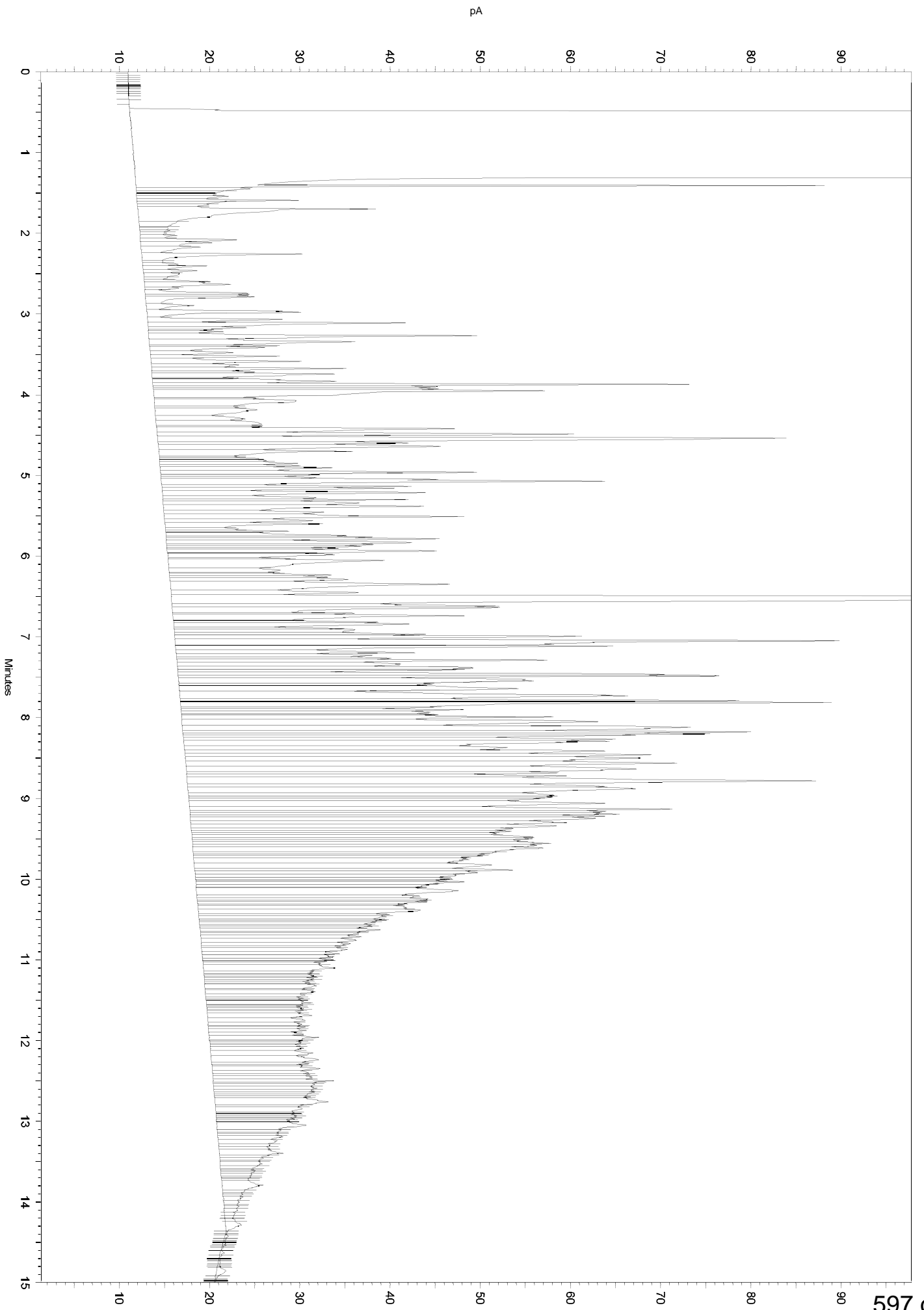
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a013.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	5.641	6.873	0
No	Split Peak	6.473	0	0
No	Split Peak	6.583	0	0
Yes	Move BL Start	11.718	0.402	0



Sample Name: **ccv,s38190,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a013.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 1:41:00 PM
 Analysis Date: 10/10/2018 2:03:07 PM
 Instrument: GC27 (Offline)A Vial: 13 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		17178023	36.266
DSL:10-14		11238789	63.222
DSL:10-22		66843854	147.531
DSL:10-24		76397665	164.153
DSL:10-28		94310716	199.893
DSL:12-24		73427496	187.514
DSL:12-28		91340547	229.507
DSL:14-24		67217360	221.734
DSL:16-24		60305749	288.639
MO:22-32		36888857	115.319
MO:24-36		28743929	88.859
MO:28-40		11289212	57.792
BUNKC:10-40		103532064	512.356
BUNKC:12-40		100561895	513.337

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

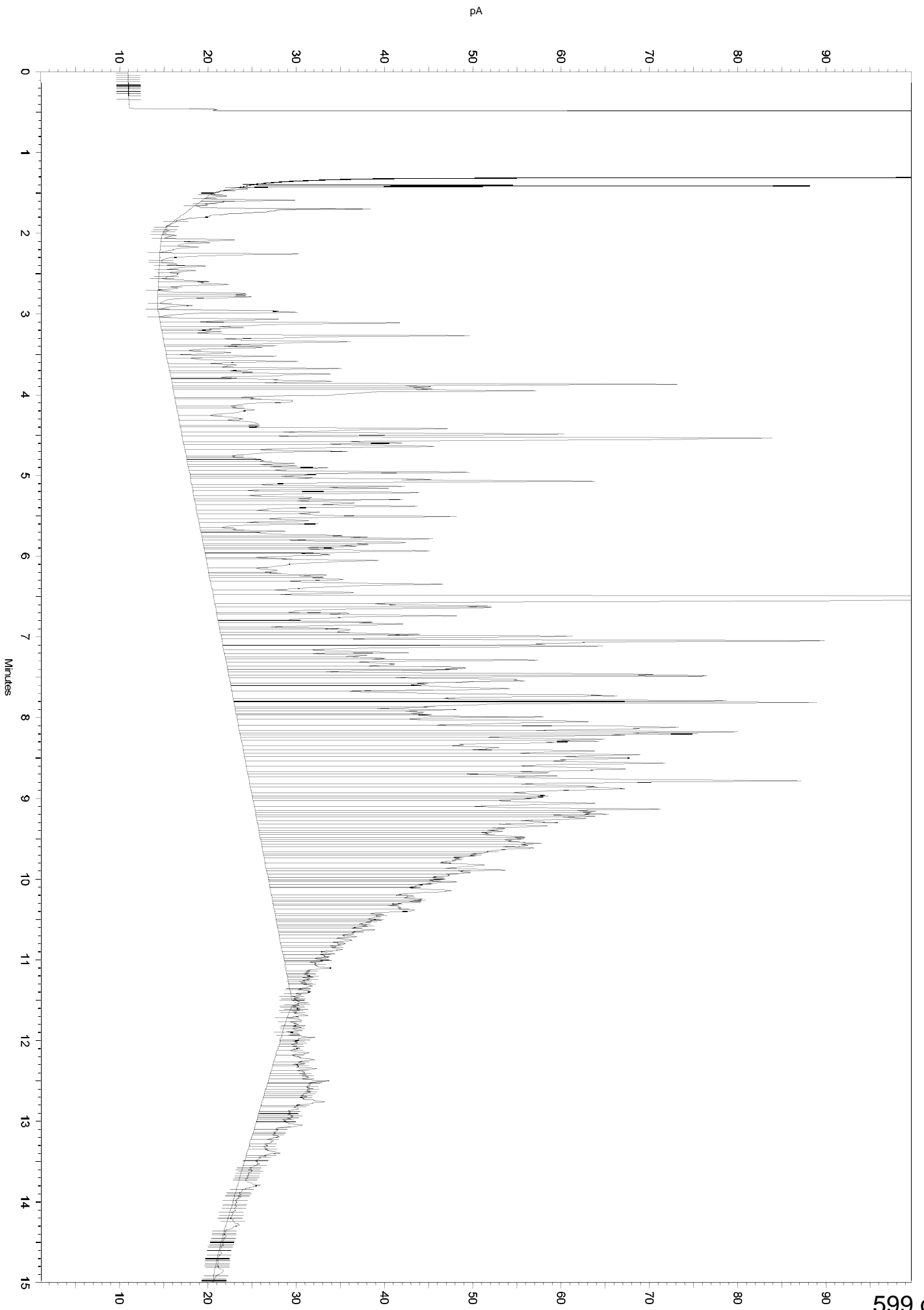
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a013.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	5.641	6.873	0
No	Split Peak	6.473	0	0
No	Split Peak	6.583	0	0



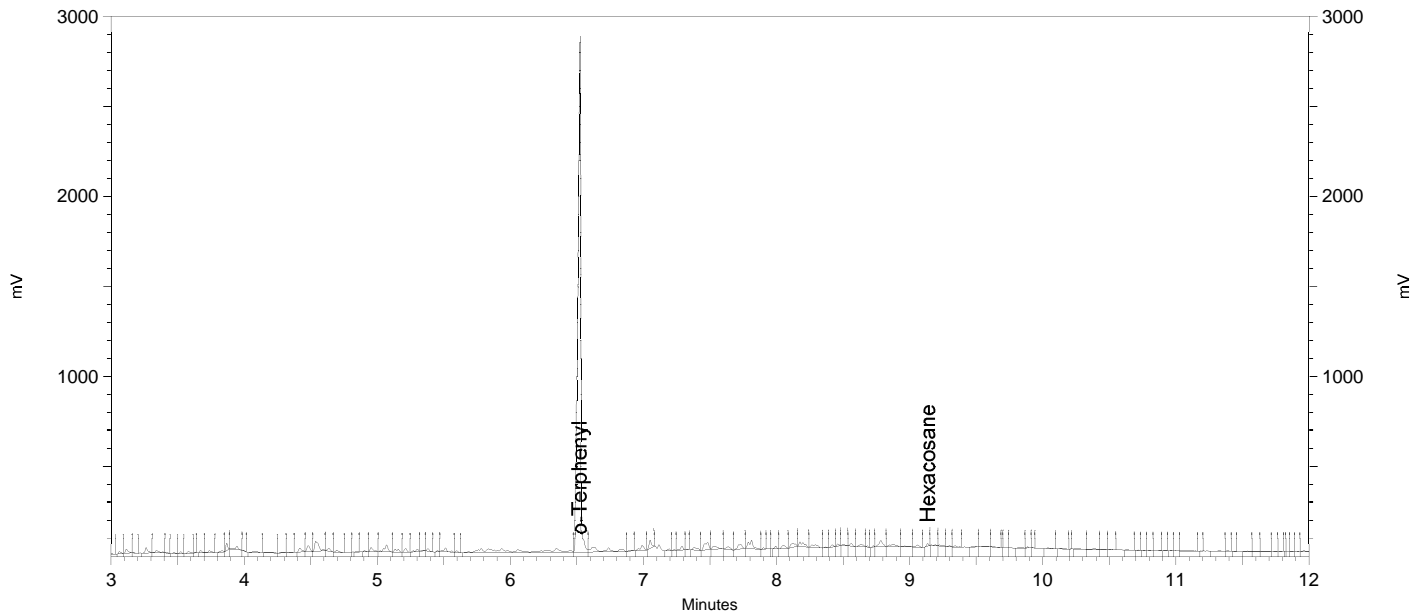
Sample Name: ccv,s38190,BUNK_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a013.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 1:41:00 PM
 Analysis Date: 10/10/2018 2:02:53 PM
 Instrument: GC27 (Offline)A Vial: 13 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.523	30392227	55.021
Hexacosane	9.135	108078	0.235



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off     0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a013.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         5.641  6.873  0
Yes Split Peak          6.473  0     0
Yes Split Peak          6.583  0     0
  
```

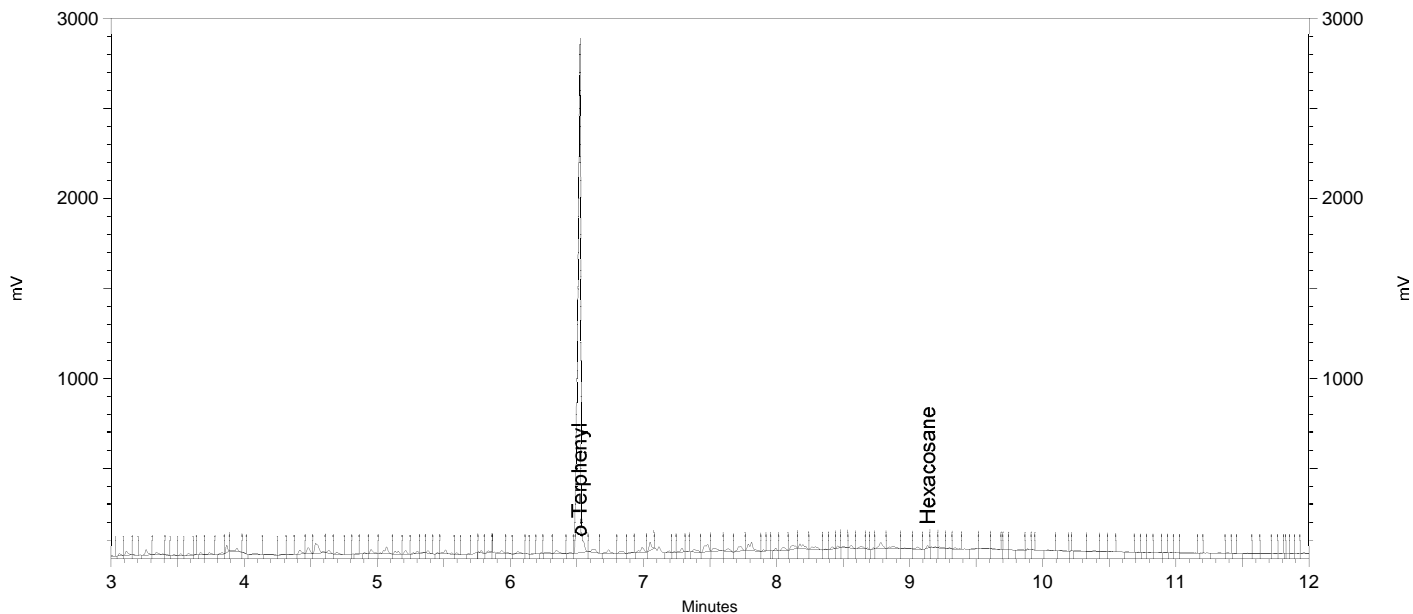

Sample Name: ccv,s38190,BUNK_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a013.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 1:41:00 PM
 Analysis Date: 10/10/2018 2:02:08 PM
 Instrument: GC27 (Offline)A Vial: 13 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.523	29993759	54.300
Hexacosane	9.135	108078	0.235



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a013.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

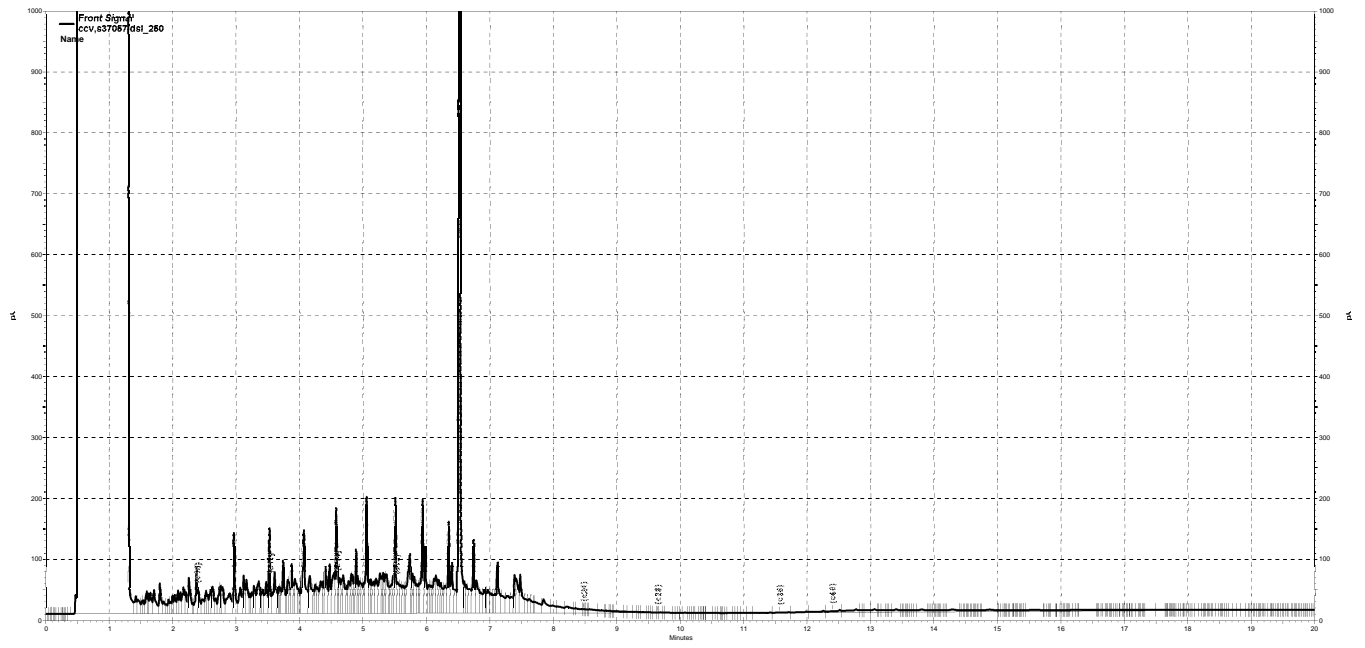

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : DSL_250 IDF : 1.0
Seqnum : 978407882017 File : 283a017 Time : 10-OCT-2018 15:22
Standards: S37057

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978335887001	21-AUG-2018	465404	462879	250.0	248.6	mg/L	-1	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	576332	50.00	52.17	mg/L	4	15	

WA1 10/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a017.dat, Front Signal

Sample Name: ccv,s37057,dsl_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a017.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 3:22:04 PM
 Analysis Date: 10/10/2018 4:34:58 PM
 Instrument: GC27 (Offline)A Vial: 17 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		69966670	147.712
DSL:10-14		45654430	256.821
DSL:10-22		142322212	314.119
DSL:10-24		144536427	310.561
DSL:10-28		145717947	308.852
DSL:12-24		127737032	326.206
DSL:12-28		128918552	323.927
DSL:14-24		104285321	344.012
DSL:16-24		79117596	378.677
MO:22-32		4364900	13.645
MO:24-36		1469193	4.542
MO:28-40		389070	1.992
BUNKC:10-40		146084757	722.940
BUNKC:12-40		129285362	659.961

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

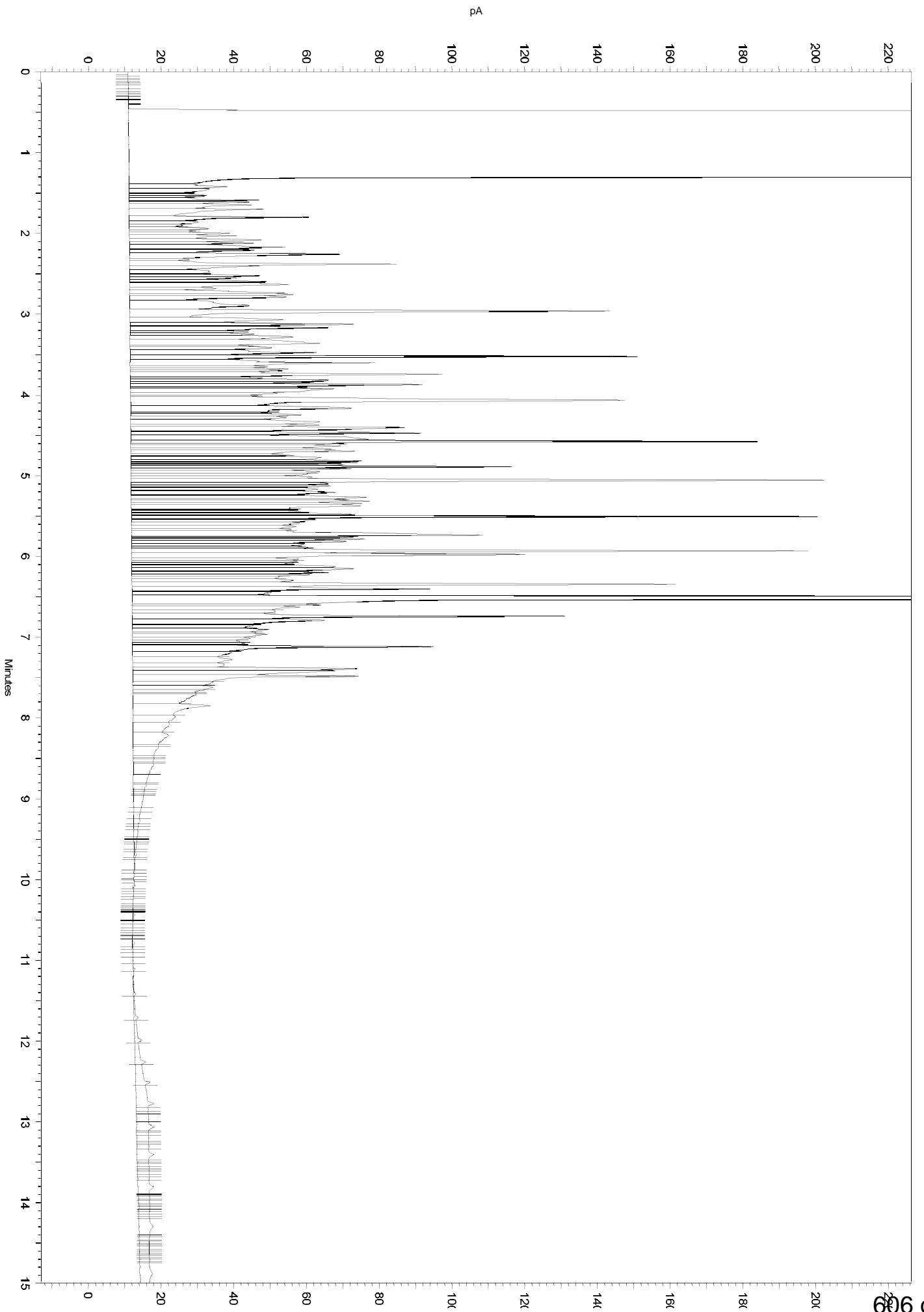
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a017.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.473	6.697	0
No	Split Peak	6.554	0	0
No	Reassign Peak	6.563	6.518	0
Yes	Move BL Start	1.775	0.285	0



Sample Name: ccv,s37057,dsl_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a017.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 3:22:04 PM
 Analysis Date: 10/10/2018 4:34:47 PM
 Instrument: GC27 (Offline)A Vial: 17 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		56385425	119.039
DSL:10-14		35150808	197.734
DSL:10-22		123691090	272.998
DSL:10-24		125229658	269.077
DSL:10-28		125808483	266.653
DSL:12-24		113915744	290.910
DSL:12-28		114494569	287.685
DSL:14-24		94819992	312.788
DSL:16-24		72923864	349.033
MO:22-32		2881657	9.008
MO:24-36		770593	2.382
MO:28-40		365895	1.873
BUNKC:10-40		126166770	624.370
BUNKC:12-40		114852856	586.288

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

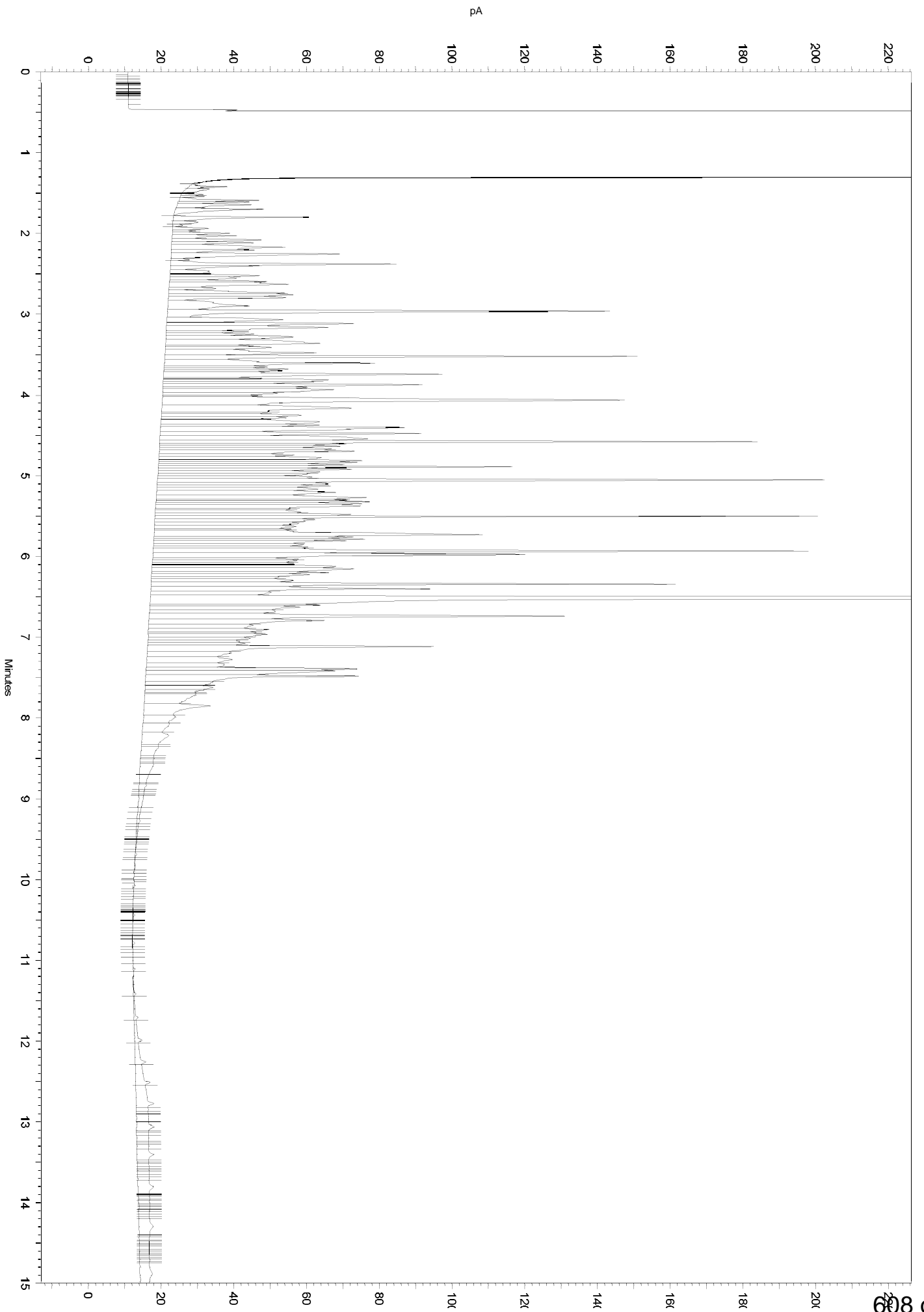
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a017.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.473	6.697	0
No	Split Peak	6.554	0	0
No	Reassign Peak	6.563	6.518	0



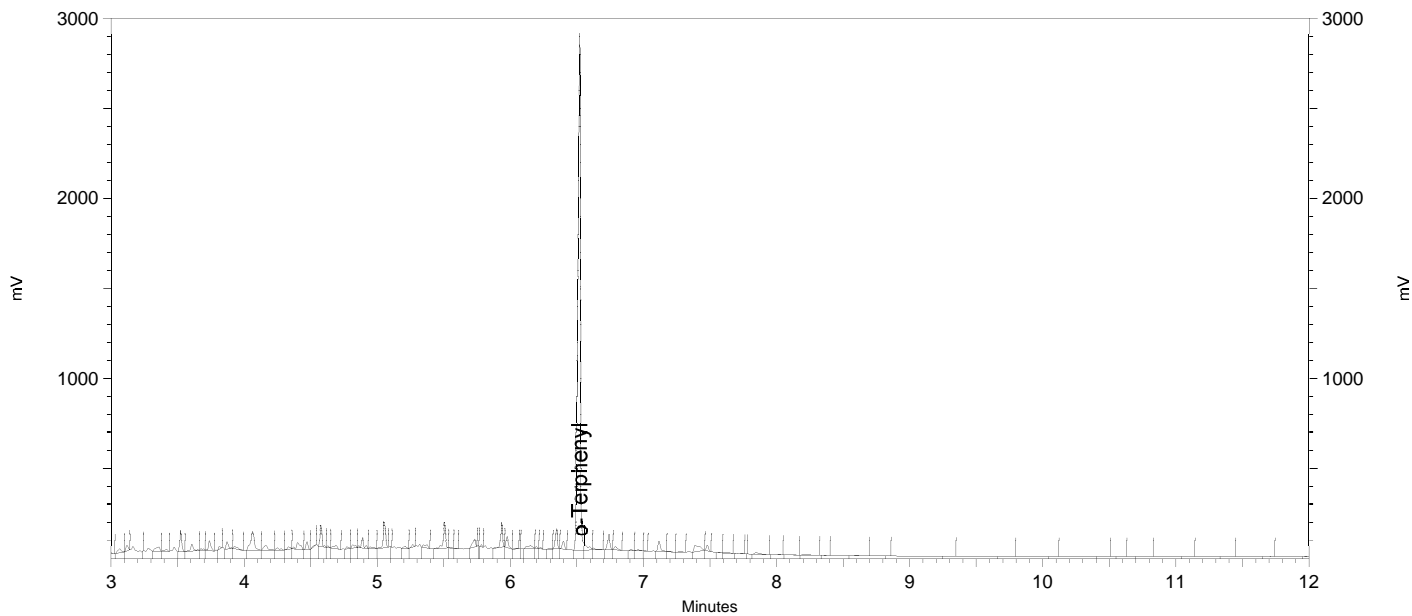
Sample Name: ccv,s37057,dsl_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a017.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 3:22:04 PM
 Analysis Date: 10/10/2018 4:33:18 PM
 Instrument: GC27 (Offline)A Vial: 17 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	28816596	52.169
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a017.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.473	6.697	0
Yes	Split Peak	6.554	0	0
Yes	Reassign Peak	6.563	6.518	0

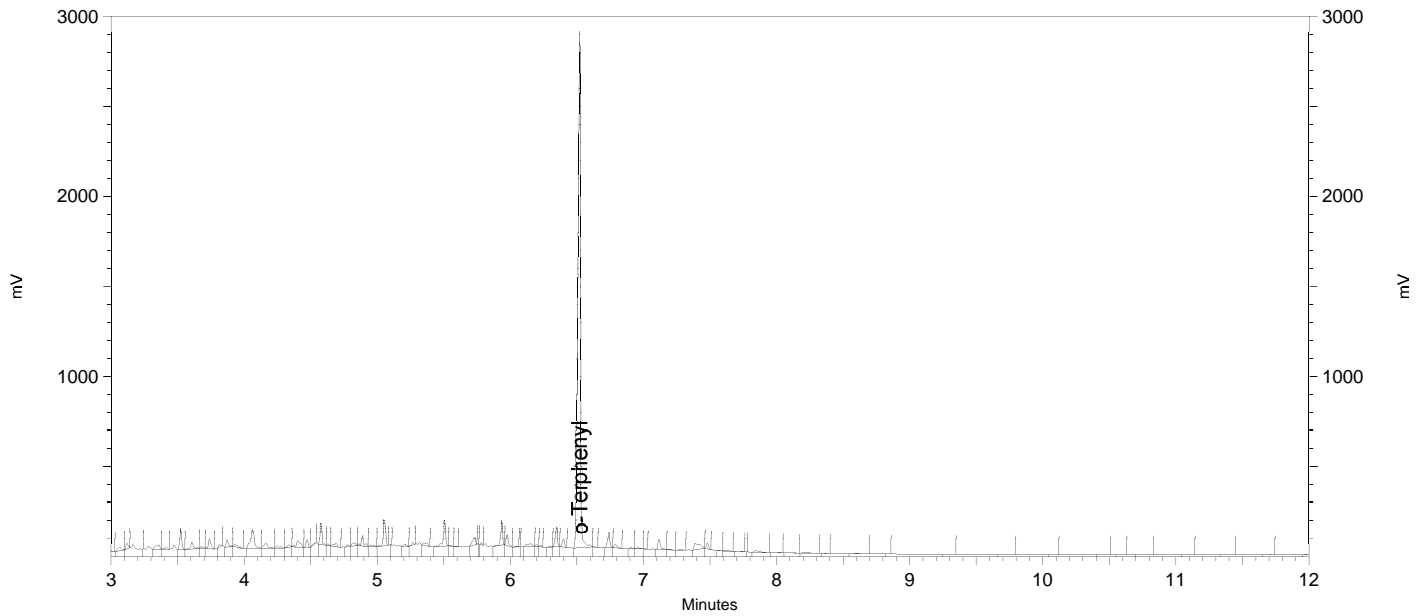
Sample Name: ccv,s37057,dsl_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a017.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 3:22:04 PM
 Analysis Date: 10/10/2018 4:32:58 PM
 Instrument: GC27 (Offline)A Vial: 17 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	29122102	52.722
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley    0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a017.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

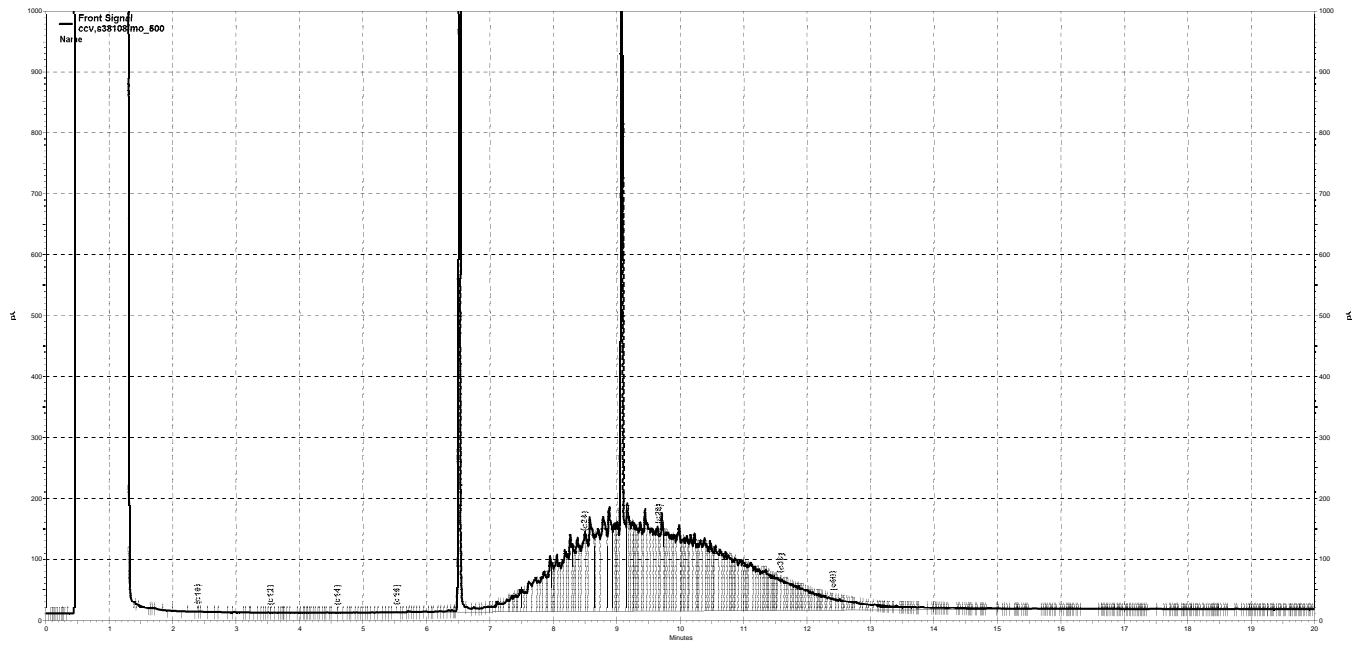
ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978407882018 File : 283a018 Time : 10-OCT-2018 15:47
 Standards: S38108

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978335887002	21-AUG-2018	323479	324642	500.0	501.8	mg/L	0	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	569687	50.00	51.57	mg/L	3	15	

WA1 10/10/18 : Corrected automatically drawn baseline.

Analyst: WA1 Date: 10/10/18 Reviewer: EAH Date: 10/10/18



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a018.dat, Front Signal

Sample Name: **ccv,s38108,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a018.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 3:47:08 PM
 Analysis Date: 10/10/2018 4:35:18 PM
 Instrument: GC27 (Offline)A Vial: 18 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		119708	0.253
DSL:10-14		75787	0.426
DSL:10-22		43601458	96.233
DSL:10-24		71614903	153.877
DSL:10-28		168823634	357.825
DSL:12-24		71563606	182.754
DSL:12-28		168772337	424.066
DSL:14-24		71540581	235.995
DSL:16-24		71508303	342.257
MO:22-32		179504251	561.151
MO:24-36		183885315	568.462
MO:28-40		102372934	524.067
BUNKC:10-40		260772388	1290.502
BUNKC:12-40		260721091	1330.899

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

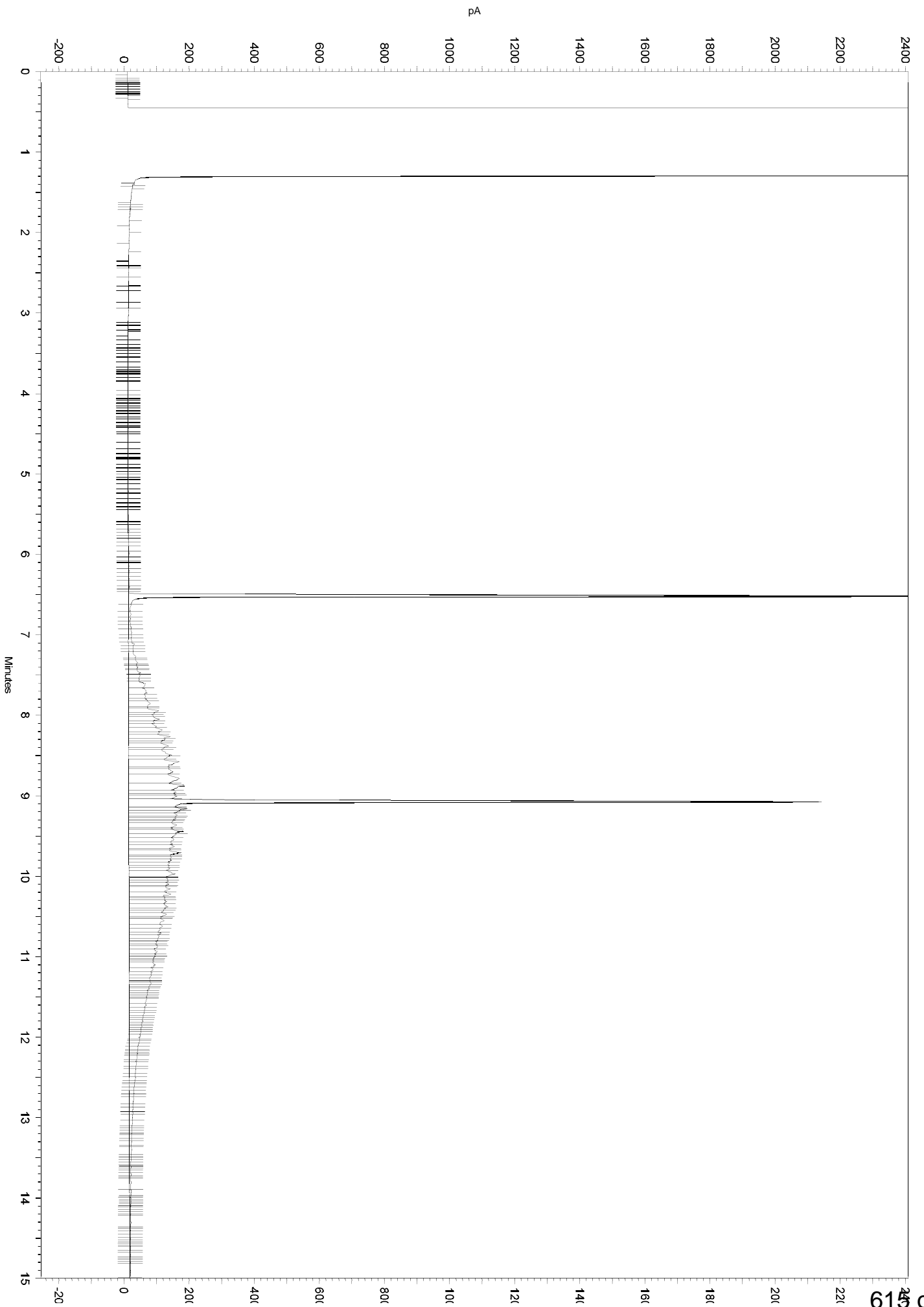
No items selected for this section

Integration Events

=====				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

=====				
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a018.dat				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.463	6.709	0
No	Manual Baseline	9.034	9.391	0
No	Split Peak	9.112	0	0
No	Reassign Peak	9.114	9.085	0
Yes	Reset Baseline	16.649	0	0



Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a018.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 3:47:08 PM
 Analysis Date: 10/10/2018 4:35:06 PM
 Instrument: GC27 (Offline)A Vial: 18 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		136077	0.287
DSL:10-14		75787	0.426
DSL:10-22		43858877	96.801
DSL:10-24		71989190	154.681
DSL:10-28		169476610	359.209
DSL:12-24		71937893	183.710
DSL:12-28		169425313	425.707
DSL:14-24		71914868	237.230
DSL:16-24		71871797	343.997
MO:22-32		180208457	563.353
MO:24-36		184797926	571.283
MO:28-40		103348258	529.060
BUNKC:10-40		262356401	1298.341
BUNKC:12-40		262305104	1338.985

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

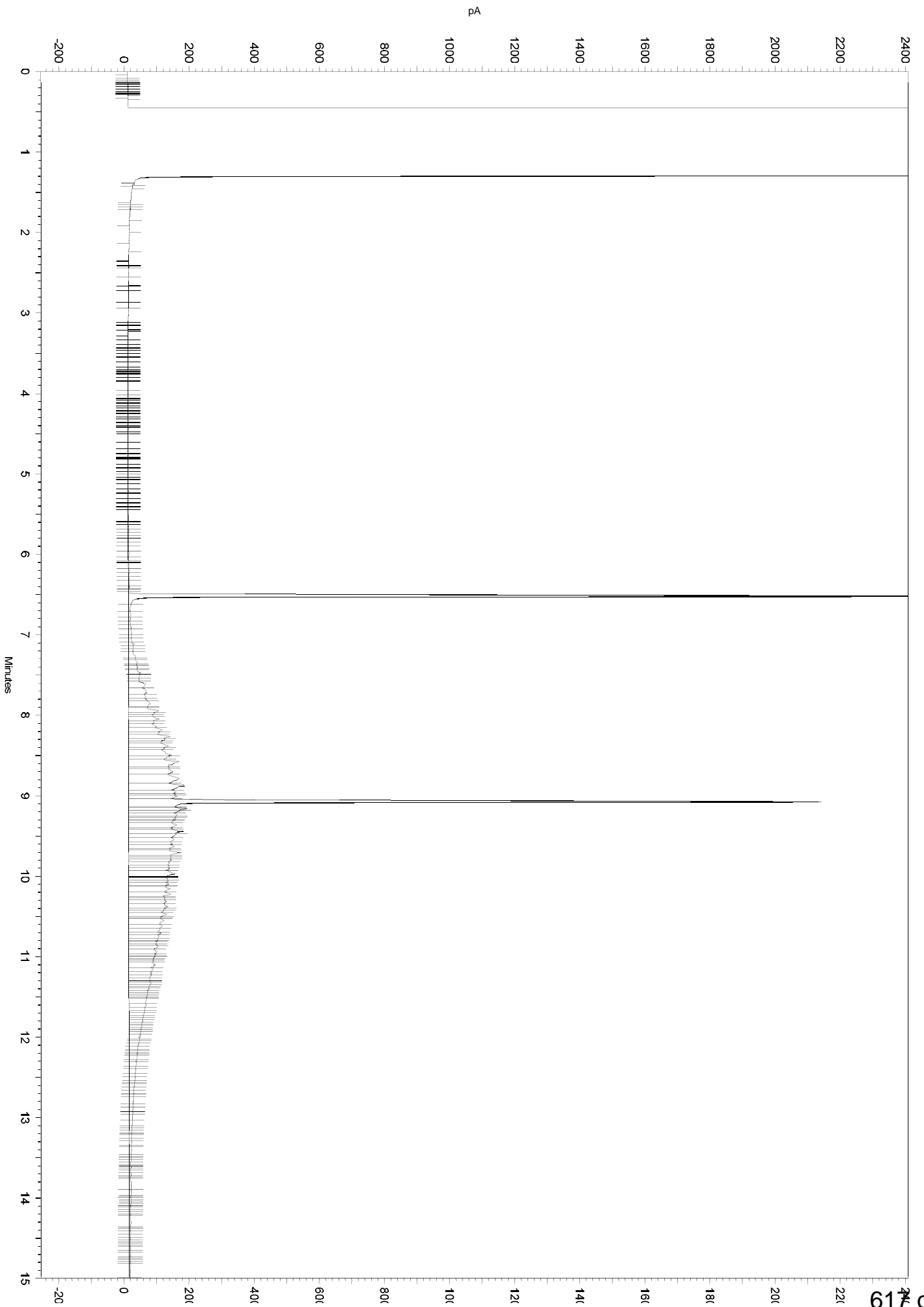
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width              0         0         0
Yes Threshold          0         0         10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a018.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline     6.463     6.709     0
No Manual Baseline     9.034     9.391     0
No Split Peak          9.112     0         0
No Reassign Peak       9.114     9.085     0
  
```



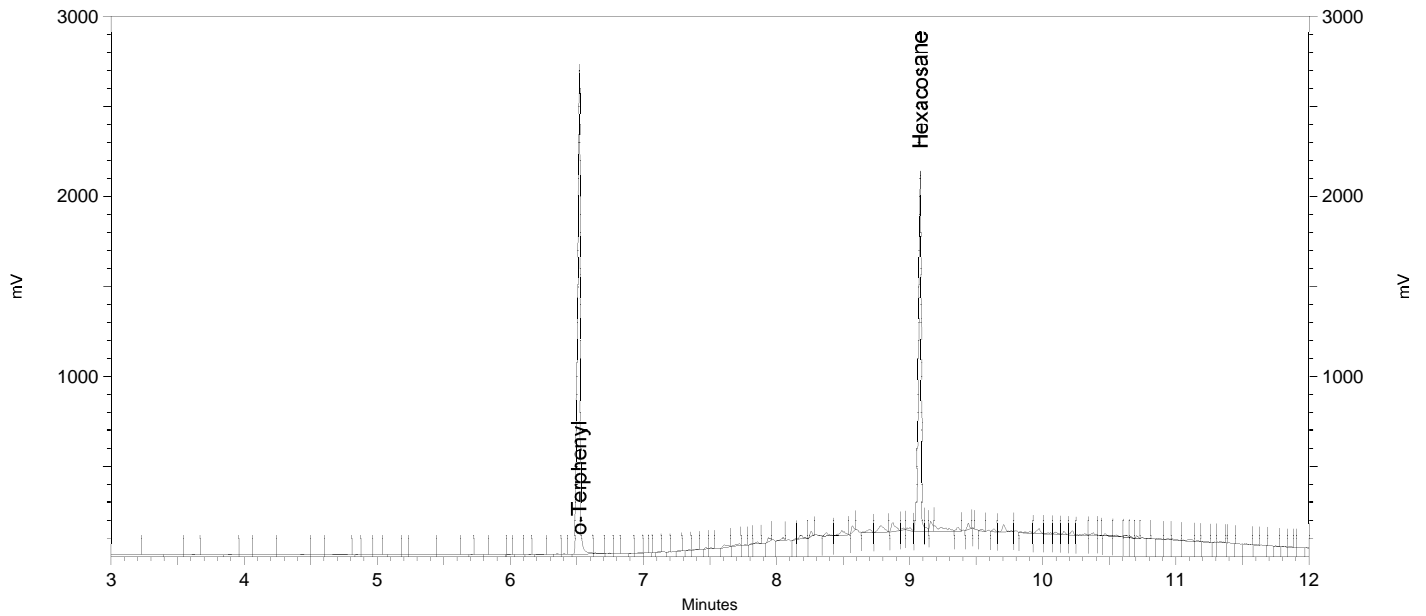
Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a018.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 3:47:08 PM
 Analysis Date: 10/10/2018 4:33:57 PM
 Instrument: GC27 (Offline)A Vial: 18 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	28484341	51.567
Hexacosane	9.077	21564248	46.819



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a018.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.463	6.709	0
Yes	Manual Baseline	9.034	9.391	0
Yes	Split Peak	9.112	0	0
Yes	Reassign Peak	9.114	9.085	0

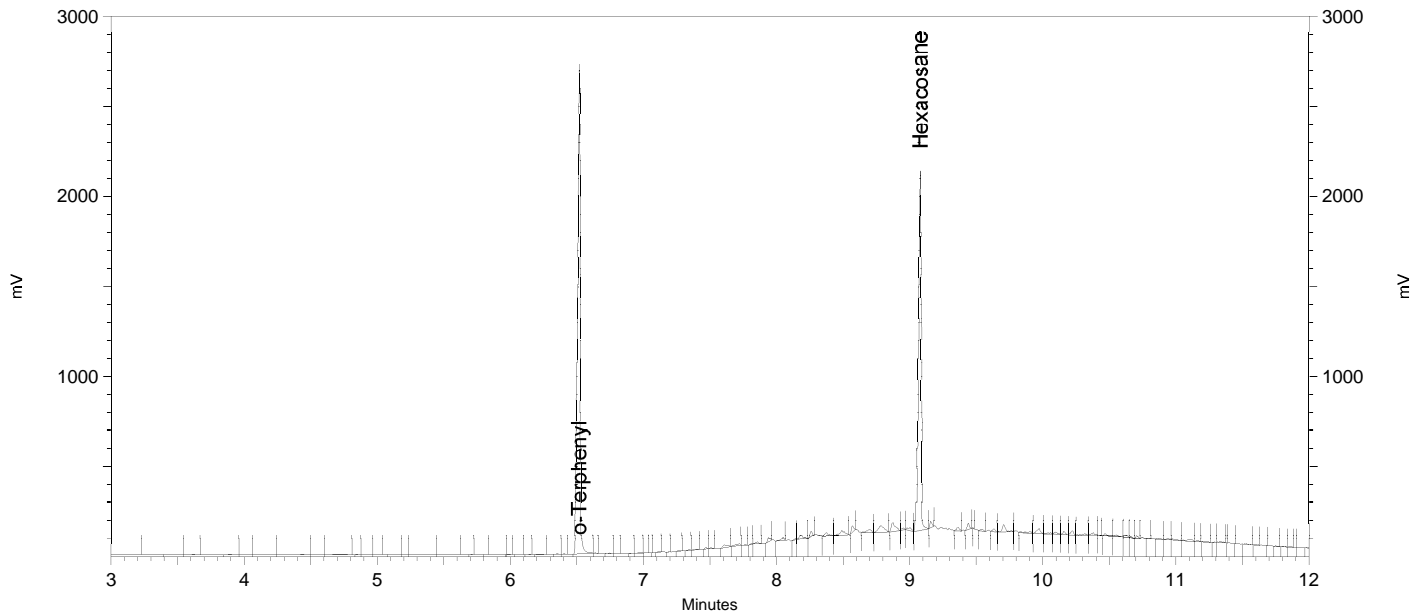
Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a018.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 3:47:08 PM
 Analysis Date: 10/10/2018 4:33:28 PM
 Instrument: GC27 (Offline)A Vial: 18 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	28336613	51.300
Hexacosane	9.077	21503670	46.688



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a018.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

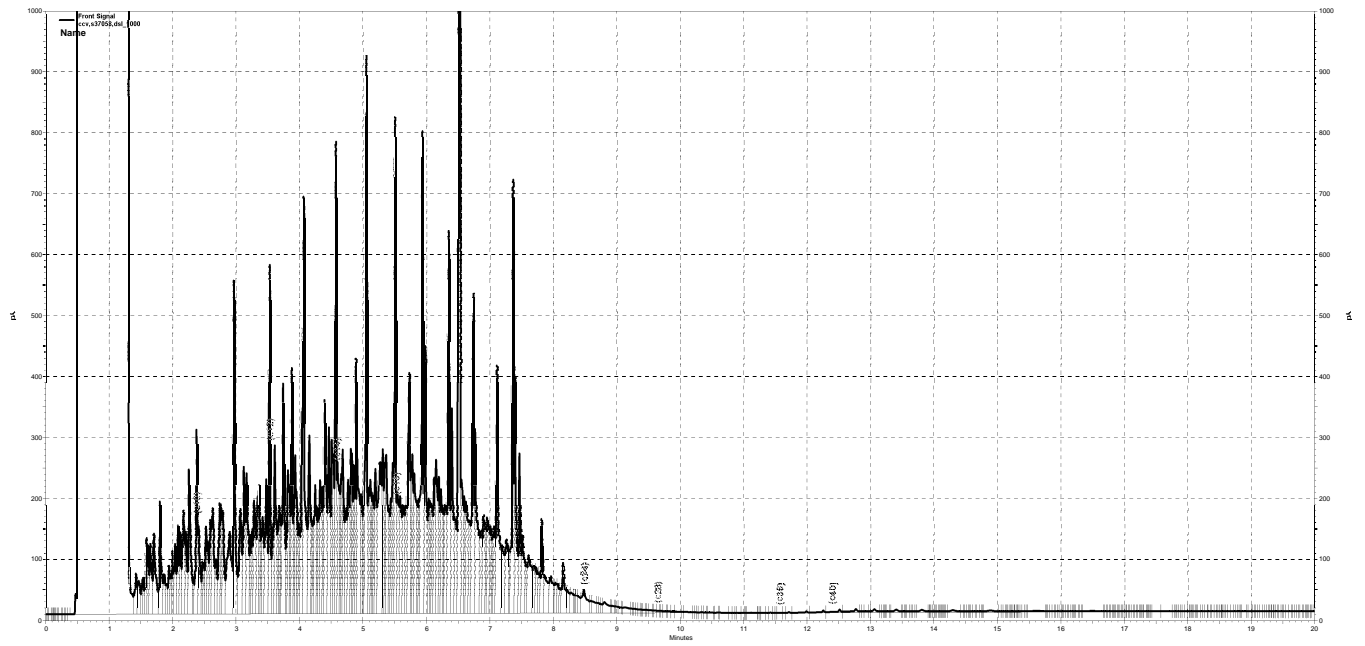
Inst : GC27A Run Name : DSL_1000 IDF : 1.0
 Seqnum : 978407882029 File : 283a029 Time : 10-OCT-2018 20:24
 Standards: S37058

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	978335887001	21-AUG-2018	465404	476961	1000	1025	mg/L	2	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	604455	50.00	54.71	mg/L	9	15	

CB1 10/11/18 : Corrected automatically drawn baseline.

CB1 10/11/18 : ccv,s37058,dsl_1000

Analyst: CB1 Date: 10/11/18 Reviewer: EAH Date: 10/11/18



— \\kragen\gdrive\ezchrom\Projects\GC27\Data\2018\283a029.dat, Front Signal

Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a029.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 8:24:04 PM
 Analysis Date: 10/11/2018 8:17:14 AM
 Instrument: GC27A Vial: 29 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		284831585	601.329
DSL:10-14		185638828	1044.277
DSL:10-22		496349818	1095.493
DSL:10-24		507183280	1089.770
DSL:10-28		511909006	1085.000
DSL:12-24		439978740	1123.587
DSL:12-28		444704466	1117.387
DSL:14-24		340730188	1123.987
DSL:16-24		241271872	1154.790
MO:22-32		20416707	63.825
MO:24-36		6862659	21.215
MO:28-40		965298	4.942
BUNKC:10-40		512647020	2536.971
BUNKC:12-40		445442480	2273.843
?		0	0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

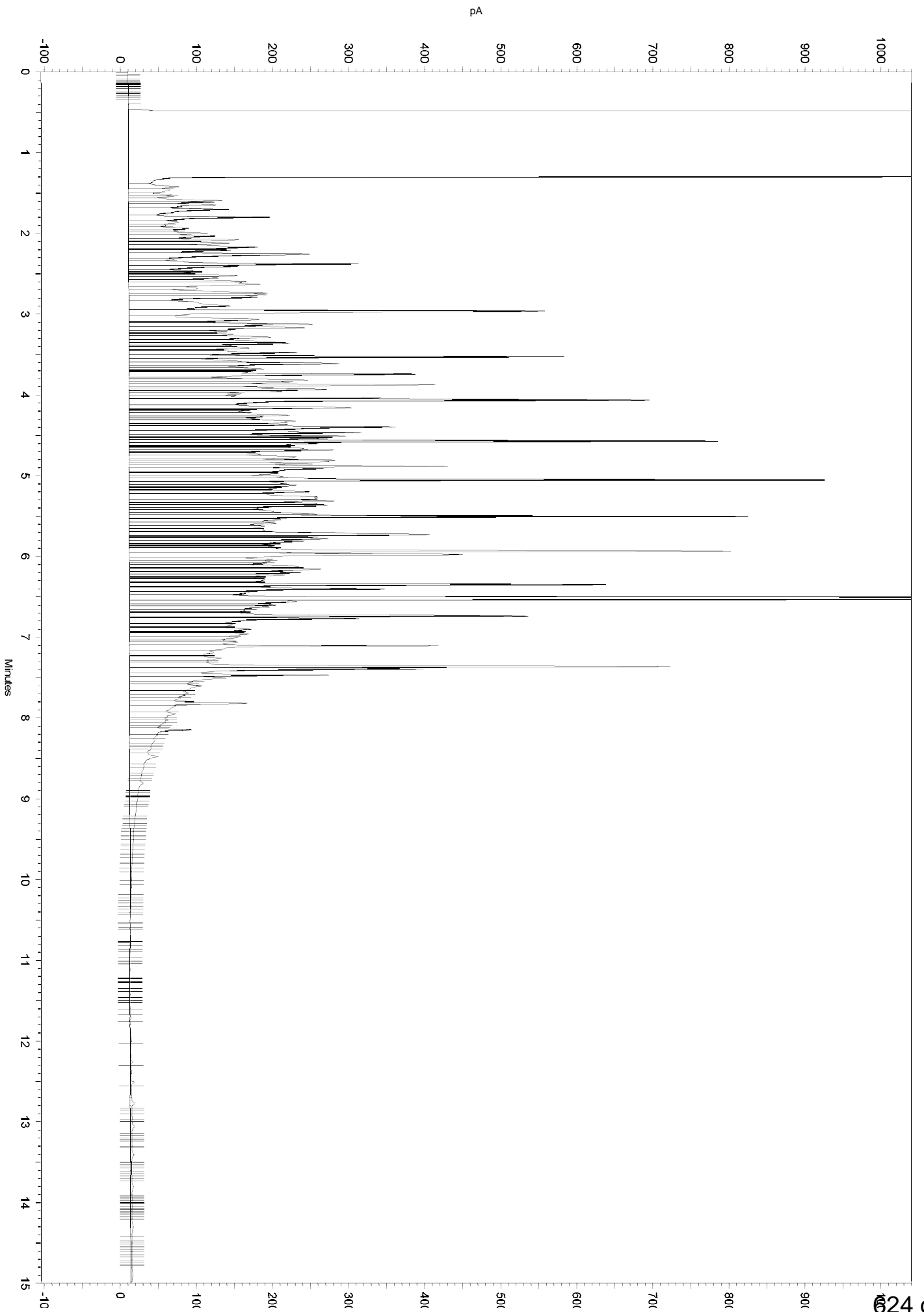
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a029.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.474	7.225	0
No	Split Peak	6.482	0	0
No	Split Peak	6.54	0	0
Yes	Move BL Start	10.283	0.316	0



Sample Name: **ccv,s37058,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a029.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 8:24:04 PM
 Analysis Date: 10/11/2018 8:16:54 AM
 Instrument: GC27A Vial: 29 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		255106192	538.573
DSL:10-14		162873445	916.215
DSL:10-22		454819177	1003.830
DSL:10-24		463672197	996.279
DSL:10-28		466296999	988.324
DSL:12-24		408337152	1042.782
DSL:12-28		410961954	1032.604
DSL:14-24		318779667	1051.577
DSL:16-24		226383210	1083.529
MO:22-32		15460953	48.333
MO:24-36		4006592	12.386
MO:28-40		423044	2.166
BUNKC:10-40		466659493	2309.390
BUNKC:12-40		411324448	2099.682

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

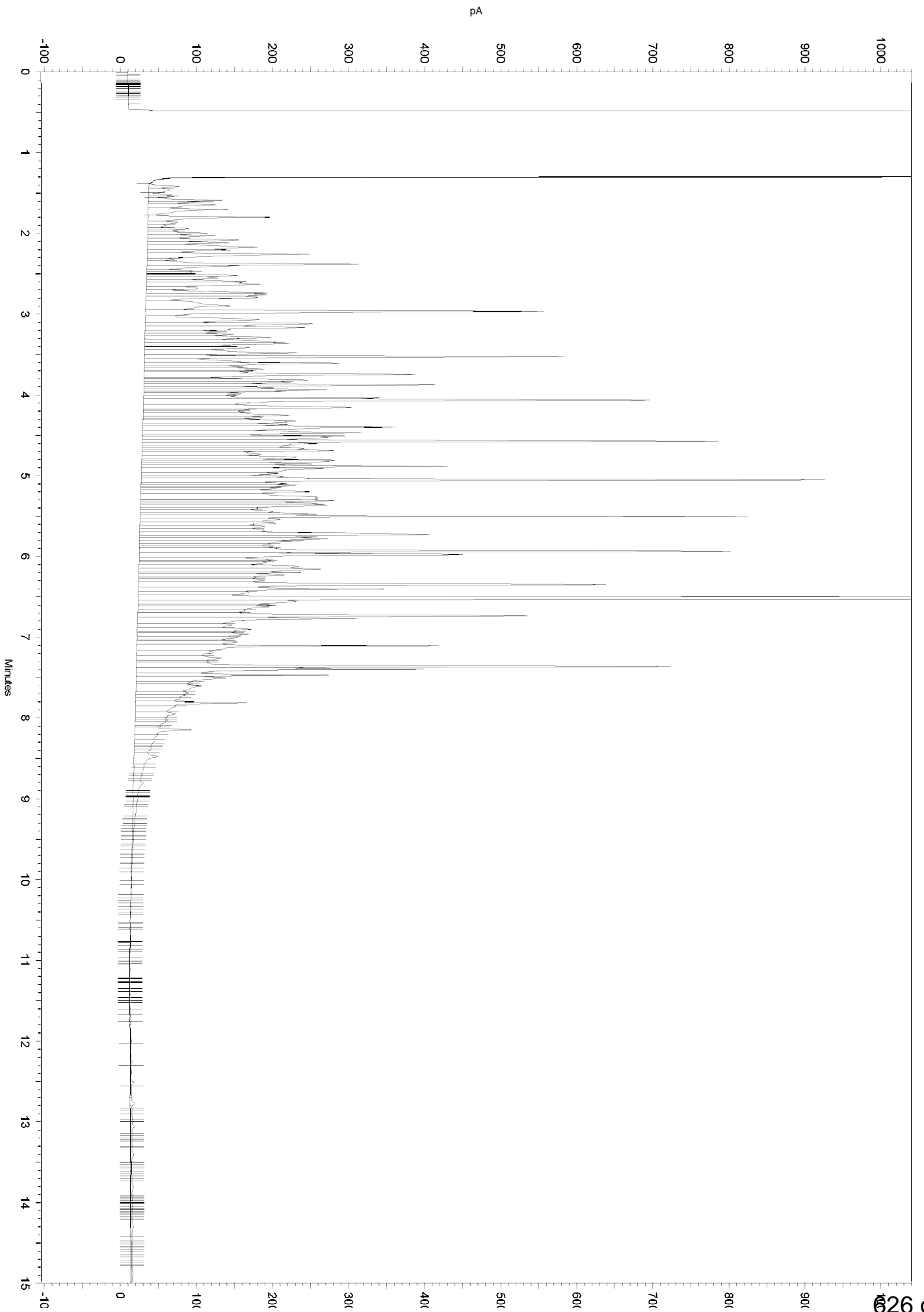
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a029.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.474	7.225	0
No	Split Peak	6.482	0	0
No	Split Peak	6.54	0	0



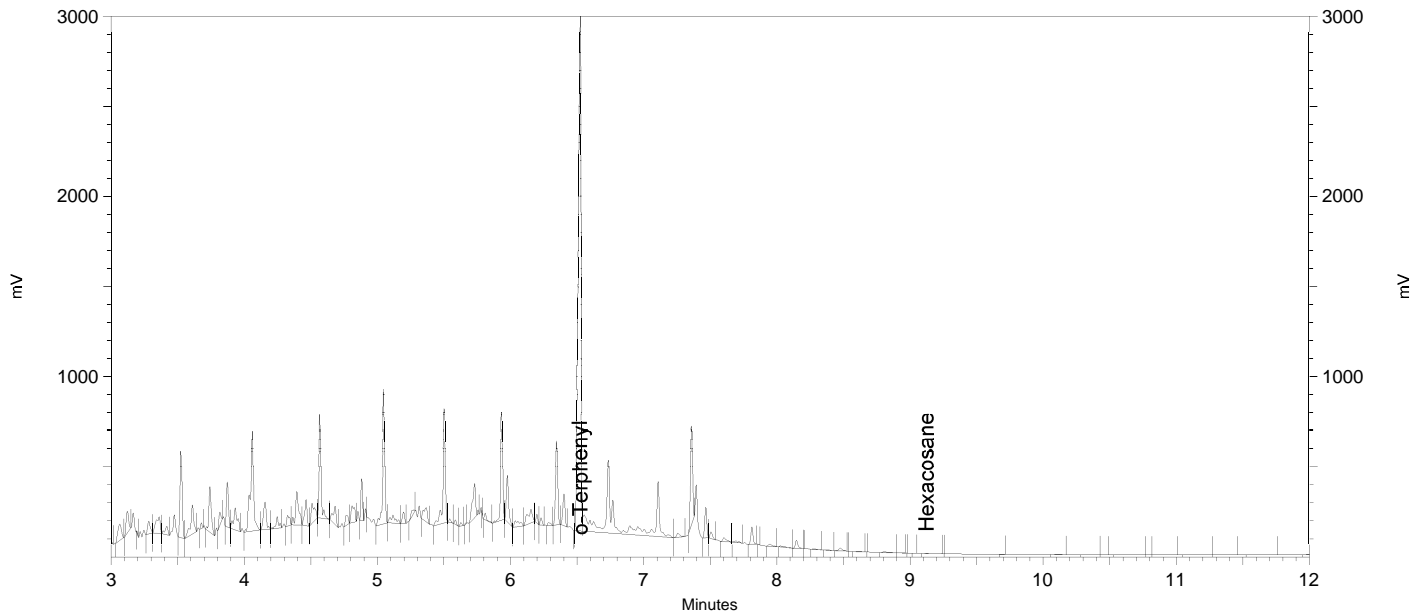
Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a029.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 8:24:04 PM
 Analysis Date: 10/11/2018 8:14:59 AM
 Instrument: GC27A Vial: 29 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.525	30222761	54.715
Hexacosane	9.125	35649	0.077



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a029.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.474  7.225  0
Yes Split Peak          6.482  0       0
Yes Split Peak          6.54   0       0
  
```

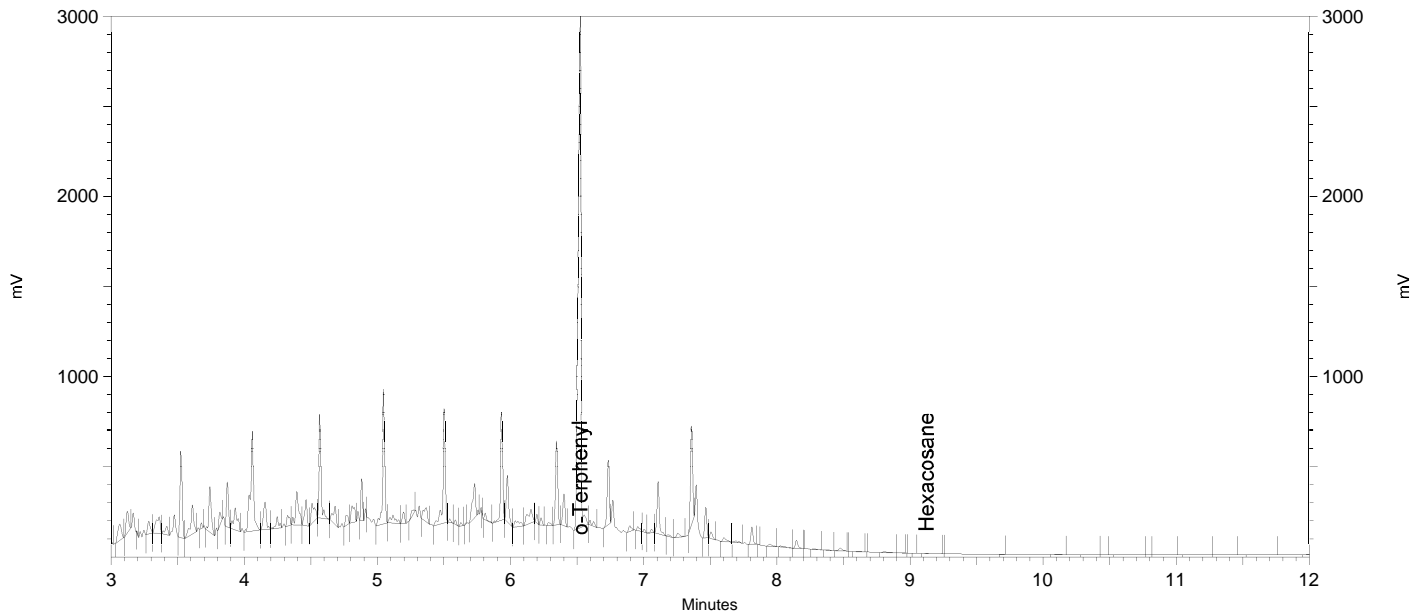

Sample Name: ccv,s37058,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a029.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 8:24:04 PM
 Analysis Date: 10/11/2018 7:50:44 AM
 Instrument: GC27A Vial: 29 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.525	30666420	55.518
Hexacosane	9.125	35649	0.077



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity 0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a029.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY CONTINUING CALIBRATION FOR 303845 GCSV Water
EPA 8015B

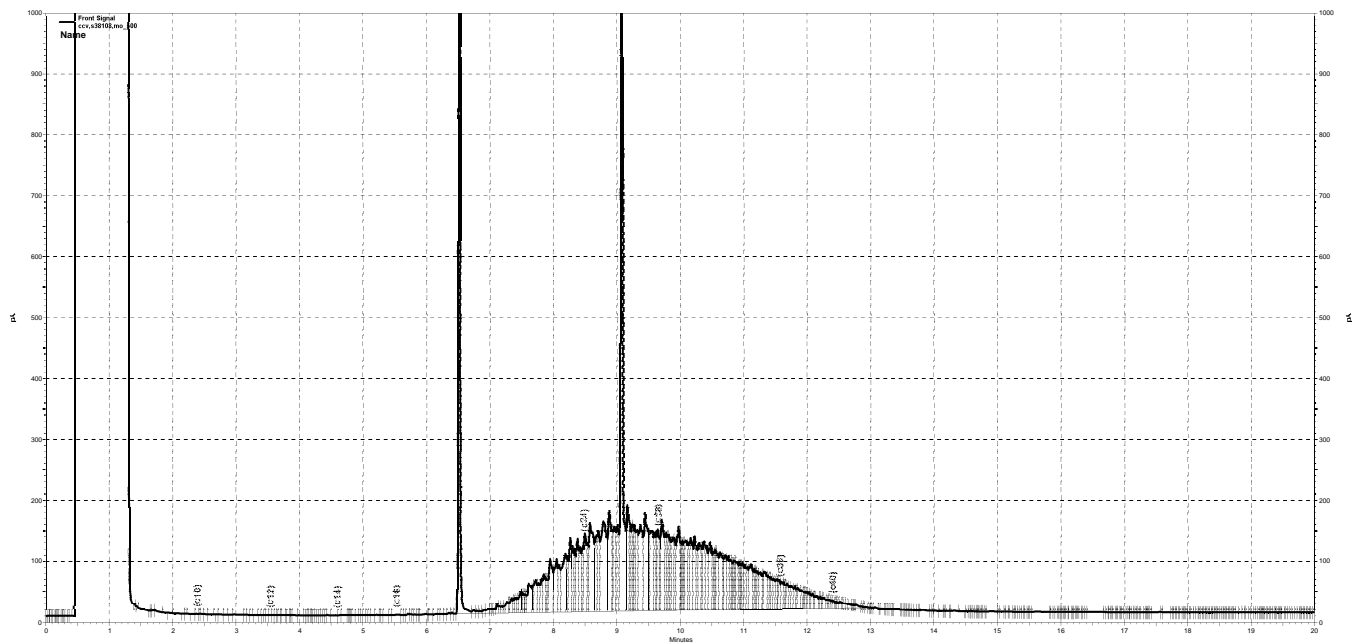
Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 978407882030 File : 283a030 Time : 10-OCT-2018 20:49
 Standards: S38108

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	978335887002	21-AUG-2018	323479	309070	500.0	477.7	mg/L	-4	15	
o-Terphenyl	978348840001	30-AUG-2018	552372	565062	50.00	51.15	mg/L	2	15	

CB1 10/11/18 : Corrected automatically drawn baseline.

CB1 10/11/18 : ccv,s38108,mo_500

Analyst: CB1 Date: 10/11/18 Reviewer: EAH Date: 10/11/18



— \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a030.dat, Front Signal

Sample Name: **ccv,s38190,BUNK_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a030.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_281.met
 Run Date: 10/10/2018 8:49:26 PM
 Analysis Date: 10/11/2018 8:18:45 AM
 Instrument: GC27A Vial: 30 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		102103	0.216
DSL:10-14		68497	0.385
DSL:10-22		41652632	91.931
DSL:10-24		68866173	147.971
DSL:10-28		162177590	343.738
DSL:12-24		68817421	175.741
DSL:12-28		162128838	407.373
DSL:14-24		68799461	226.953
DSL:16-24		68773817	329.169
MO:22-32		172931189	540.603
MO:24-36		176290178	544.982
MO:28-40		94192127	482.188
BUNKC:10-40		246231817	1218.544
BUNKC:12-40		246183065	1256.687
?		0	0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

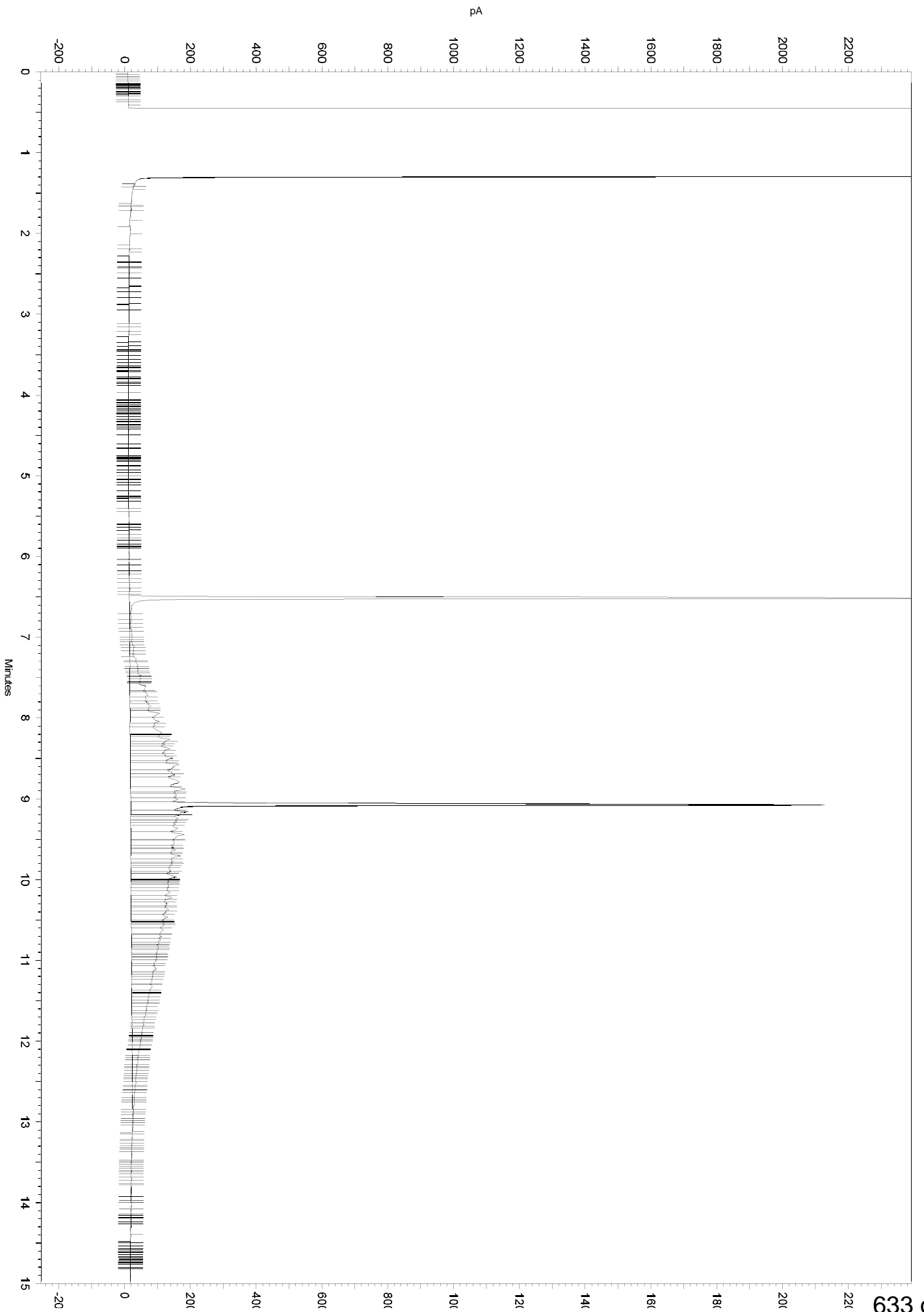
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a030.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.467	6.874	0
No	Split Peak	6.473	0	0
No	Split Peak	6.603	0	0
No	Manual Peak	8.85	9.668	0
No	Split Peak	9.031	0	0
No	Split Peak	9.109	0	0
Yes	Move BL Stop	6.873	12.988	0



Sample Name: **ccv,s38108,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a030.dat
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2018\283.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\TEH_281.met**
 Run Date: **10/10/2018 8:49:26 PM**
 Analysis Date: **10/11/2018 8:17:20 AM**
 Instrument: **GC27A Vial: 30 Operator: teh4**
 Sample Amount: **1**

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		102103	0.216
DSL:10-14		68497	0.385
DSL:10-22		31080182	68.597
DSL:10-24		37143244	79.809
DSL:10-28		67576111	143.229
DSL:12-24		37094492	94.729
DSL:12-28		67527359	169.673
DSL:14-24		37076532	122.307
DSL:16-24		37050888	177.335
MO:22-32		45028011	140.763
MO:24-36		43995699	136.008
MO:28-40		14202988	72.708
BUNKC:10-40		80423044	397.995
BUNKC:12-40		80374292	410.285
?		0	0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

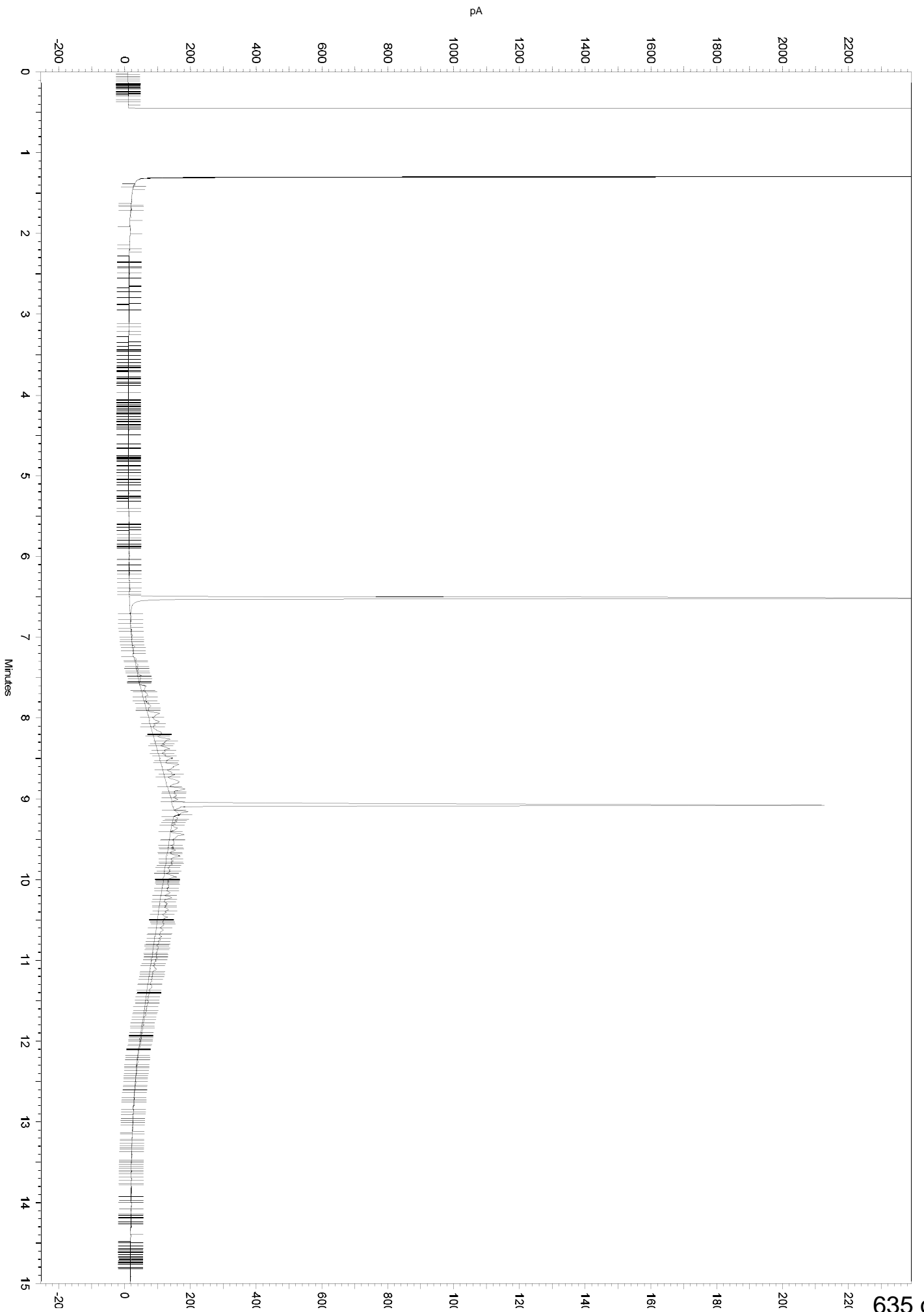
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes  Width              0         0     0
Yes  Threshold          0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a030.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No  Manual Peak        6.467     6.874     0
No  Split Peak         6.473     0         0
No  Split Peak         6.603     0         0
No  Manual Peak         8.85      9.668     0
No  Split Peak         9.031     0         0
No  Split Peak         9.109     0         0
  
```

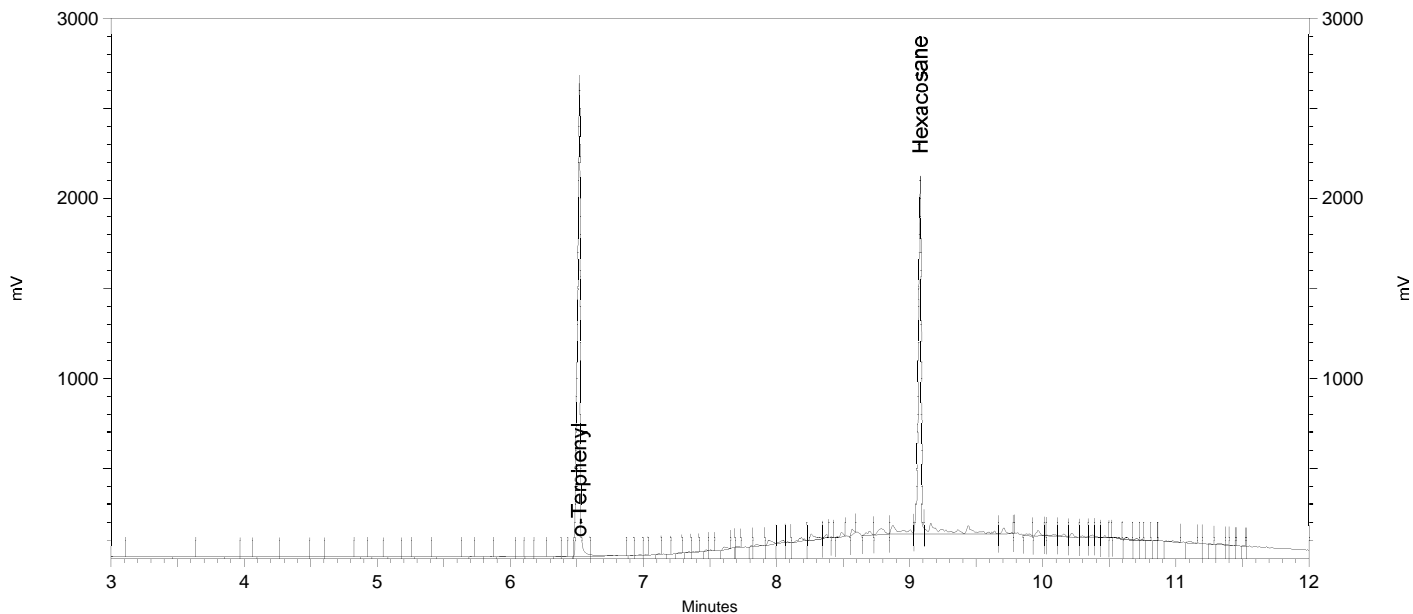
Sample Name: ccv,s38190,BUNK_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a030.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 8:49:26 PM
 Analysis Date: 10/11/2018 8:15:51 AM
 Instrument: GC27A Vial: 30 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	28253077	51.149
Hexacosane	9.077	21755083	47.234



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a030.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.467	6.874	0
Yes	Split Peak	6.473	0	0
Yes	Split Peak	6.603	0	0
Yes	Manual Peak	8.85	9.668	0

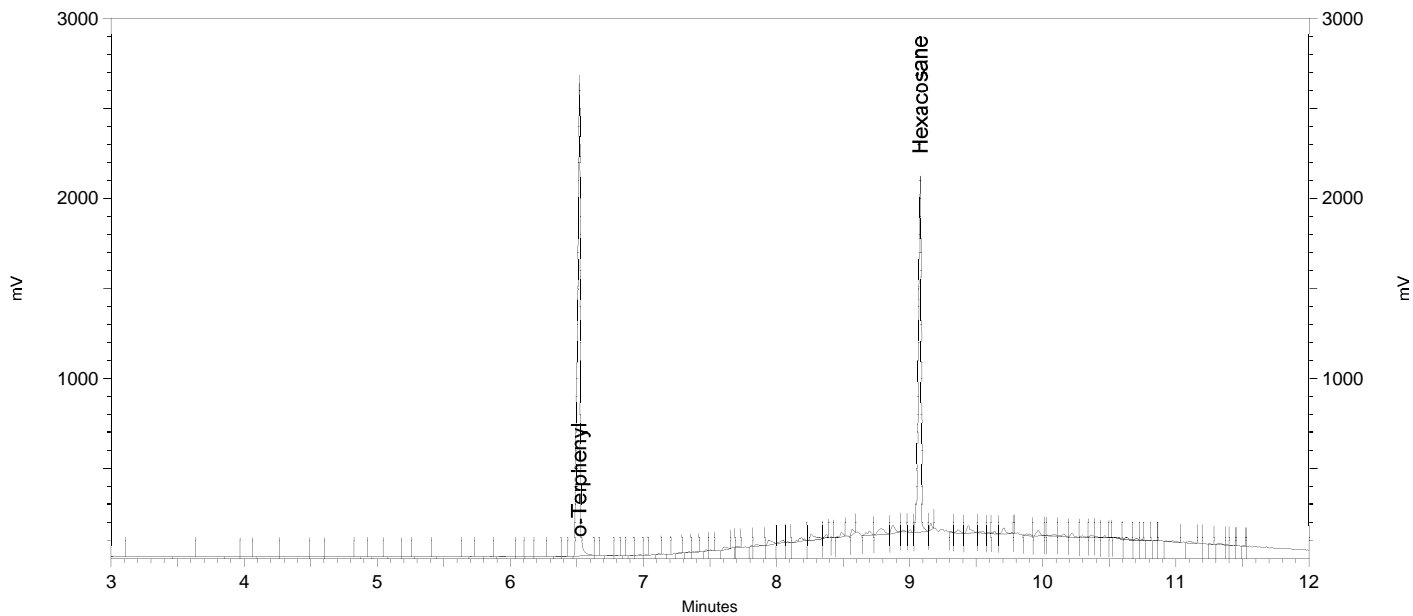
Yes	Split Peak	9.031	0	0
Yes	Split Peak	9.109	0	0

Sample Name: ccv,s38108,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a030.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2018\283.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\la-bothsurr_281.met
 Run Date: 10/10/2018 8:49:26 PM
 Analysis Date: 10/11/2018 8:15:06 AM
 Instrument: GC27A Vial: 30 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	28134069	50.933
Hexacosane	9.077	21573675	46.840



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Valley to Valley     0      15     0
Yes Shoulder Sensitivity  0      15    500
Yes Integration Off      0       2     0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC27\Data\2018\283a030.dat
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 303845

ANALYTICAL REPORT

Semivolatile Organics by GC/MS SIM

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02A.01
Location : Riley Avenue
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	303845-001
BR11-1GW02	303845-002
BR11-1GW03	303845-003
DUP10032018-01	303845-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 10/19/2018

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE
SEMIVOLATILE ORGANICS BY GC/MS SIM (EPA 8270C-SIM)

Laboratory number: **303845**
Client: **TRC Solutions**
Project: **285830.02A.01**
Location: **Riley Avenue**
Request Date: **10/03/18**
Samples Received: **10/03/18**

This data package contains sample and QC results for four water samples, requested for the above referenced project on 10/03/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

No analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 203045
 Date Received: 10/3/18

Client: TRE solutions
 Project: _____



Section 2: Samples received in a cooler? Yes, how many? 1 No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # A, or B

Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 10/3/18 By (print) AC (sign) [Signature]

Shipping info (if applicable) _____

Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package

Date: _____ How many _____ Signature, Initials, None

Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

Samples received on ice directly from the field. Cooling process had begun

Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No

Temperature measured using Thermometer ID: _____, or IR Gun # A B

Cooler Temp (°C): #1: 2.1, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?		<input checked="" type="checkbox"/>	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for preserved terracores?			<input checked="" type="checkbox"/>
Are bubbles > 6mm absent in VOA samples?	<input checked="" type="checkbox"/>		
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			<input checked="" type="checkbox"/>
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:
 Explanations/Comments: _____

Date Logged in 10/3/18 By (print) AC (sign) [Signature]
 Date Labeled 10/4/18 By (print) DO (sign) [Signature]

Results & QC Summary

Semivolatile Organics by GC/MS SIM

Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1GW01	Batch#:	264323
Lab ID:	303845-001	Sampled:	10/03/18
Matrix:	Water	Received:	10/03/18
Units:	ug/L	Prepared:	10/08/18
Diln Fac:	1.000	Analyzed:	10/17/18

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	100	48-124
2-Fluorobiphenyl	73	51-120
Terphenyl-d14	108	25-120

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1GW02	Batch#:	264323
Lab ID:	303845-002	Sampled:	10/03/18
Matrix:	Water	Received:	10/03/18
Units:	ug/L	Prepared:	10/08/18
Diln Fac:	1.000	Analyzed:	10/17/18

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	90	48-124
2-Fluorobiphenyl	69	51-120
Terphenyl-d14	79	25-120

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1GW03	Batch#:	264323
Lab ID:	303845-003	Sampled:	10/03/18
Matrix:	Water	Received:	10/03/18
Units:	ug/L	Prepared:	10/08/18
Diln Fac:	1.000	Analyzed:	10/18/18

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	104	48-124
2-Fluorobiphenyl	78	51-120
Terphenyl-d14	80	25-120

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Field ID:	DUP10032018-01	Batch#:	264323
Lab ID:	303845-004	Sampled:	10/03/18
Matrix:	Water	Received:	10/03/18
Units:	ug/L	Prepared:	10/08/18
Diln Fac:	1.000	Analyzed:	10/18/18

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	97	48-124
2-Fluorobiphenyl	73	51-120
Terphenyl-d14	82	25-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC950896	Batch#:	264323
Matrix:	Water	Prepared:	10/08/18
Units:	ug/L	Analyzed:	10/10/18

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	113	48-124
2-Fluorobiphenyl	77	51-120
Terphenyl-d14	91	25-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC950897	Batch#:	264323
Matrix:	Water	Prepared:	10/08/18
Units:	ug/L	Analyzed:	10/10/18

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	1.000	0.7940	79	51-120
Pyrene	1.000	0.8756	88	60-120

Surrogate	%REC	Limits
Nitrobenzene-d5	101	48-124
2-Fluorobiphenyl	72	51-120
Terphenyl-d14	83	25-120

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	264323
MSS Lab ID:	303882-003	Sampled:	10/04/18
Matrix:	Water	Received:	10/04/18
Units:	ug/L	Prepared:	10/08/18
Diln Fac:	1.000	Analyzed:	10/17/18

Type: MS Lab ID: QC950898

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	0.02410	1.000	0.7968	77	41-130
Pyrene	<0.02000	1.000	0.7880	79	50-130

Surrogate	%REC	Limits
Nitrobenzene-d5	107	48-124
2-Fluorobiphenyl	73	51-120
Terphenyl-d14	65	25-120

Type: MSD Lab ID: QC950899

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	1.000	0.8184	79	41-130	3	58
Pyrene	1.000	0.8272	83	50-130	5	45

Surrogate	%REC	Limits
Nitrobenzene-d5	107	48-124
2-Fluorobiphenyl	73	51-120
Terphenyl-d14	65	25-120

RPD= Relative Percent Difference

ENTHALPY DFTPP TUNE FOR 303845 MSSIM Water
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM IDF : 1.0
Seqnum : 528398235003 File : vj303 Time : 03-OCT-2018 17:24
Caltype : DFTPP/PEM

Standards: S38424

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	218878	45.17	
68	< 2% of mass 69	0	0.00	
69		216359	100.00	
70	< 2% of mass 69	1211	0.56	
127	40% - 60% of mass 198	240146	49.56	
197	< 1% of mass 198	0	0.00	
198		484522	100.00	
199	5% - 9% of mass 198	33552	6.92	
275	10% - 30% of mass 198	132170	27.28	
365	> 1% of mass 198	13034	2.69	
441	Present, < mass 443	56994	81.44	
442	> 40% and < 100% of mass 198	352746	72.80	
443	17% - 23% of mass 442	69981	19.84	

VQ 10/03/18 [4,4'-DDD]: Picked or reassigned peak.

YW1 10/04/18 [4,4'-DDD]: The original peak was the correct peak.

VQ: 10/03/18 * YW1: 10/04/18 LW: 10/04/18

ENTHALPY INITIAL CALIBRATION FOR 303845 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA03
 Calnum : 528398235001
 Units : ug/mL

Name : 3PAHSIM
 Date : 03-OCT-2018 18:23
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vj304	528398235004	ICAL	03-OCT-2018 18:23	S38009
L2	vj305	528398235005	ICAL	03-OCT-2018 18:55	S38010
L3	vj306	528398235006	ICAL	03-OCT-2018 19:27	S38011
L4	vj307	528398235007	ICAL	03-OCT-2018 20:00	S38012
L5	vj308	528398235008	ICAL	03-OCT-2018 20:32	S38013
L6	vj309	528398235009	ICAL	03-OCT-2018 21:05	S38014
L7	vj310	528398235010	ICAL	03-OCT-2018 21:38	S38015

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r ² %RSD	Max %RSD	Min RF	Min r ²	Flg
Naphthalene	1.0845	1.0762	1.0629	1.0678	1.0051	0.9281	0.8322	AVRG		0.99195		1.0081	9	15	0.05	0.99	
Acenaphthylene	1.8912	1.8959	1.8851	1.8573	1.7560	1.6257	1.4500	AVRG		0.56629		1.7659	10	15	0.05	0.99	
Acenaphthene	1.1459	1.1740	1.1493	1.1546	1.1056	1.0348	0.9412	AVRG		0.90844		1.1008	8	15	0.05	0.99	
Fluorene	1.4651	1.4634	1.4378	1.4092	1.3560	1.2442	1.1074	AVRG		0.73815		1.3547	10	15	0.05	0.99	
Phenanthrene	1.1158	1.1257	1.0751	1.0909	1.0465	0.9629	0.8634	AVRG		0.96150		1.0400	9	15	0.05	0.99	
Anthracene	1.0943	1.0889	1.0703	1.0819	1.0368	0.9497	0.8551	AVRG		0.97534		1.0253	9	15	0.05	0.99	
Fluoranthene	1.3382	1.3397	1.2846	1.2921	1.2527	1.1257	1.0366	AVRG		0.80743		1.2385	9	15	0.05	0.99	
Pyrene	1.5373	1.4998	1.4711	1.4557	1.3749	1.2882	1.1491	AVRG		0.71602		1.3966	10	15	0.05	0.99	
Benzo(a)anthracene	1.3393	1.3629	1.3193	1.3511	1.2894	1.1914	1.0714	AVRG		0.78432		1.2750	8	15	0.05	0.99	
Chrysene	1.2682	1.2853	1.2949	1.2966	1.2428	1.1323	1.0041	AVRG		0.82120		1.2177	9	15	0.05	0.99	
Benzo(b)fluoranthene	1.3504	1.3476	1.3226	1.3465	1.3078	1.2300	1.1327	AVRG		0.77454		1.2911	6	15	0.05	0.99	
Benzo(k)fluoranthene	1.3327	1.3218	1.4037	1.4563	1.2613	1.2610	1.1588	AVRG		0.76124		1.3137	8	15	0.05	0.99	
Benzo(a)pyrene	1.1659	1.1936	1.1707	1.2093	1.1820	1.1230	1.0512	AVRG		0.86466		1.1565	5	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.0772	1.1306	1.1079	1.1614	1.1585	1.1561	1.1219	AVRG		0.88455		1.1305	3	15	0.05	0.99	
Dibenz(a,h)anthracene	0.8521	0.8739	0.8773	0.9364	0.9399	0.9634	0.9557	AVRG		1.09398		0.9141	5	15	0.05	0.99	
Benzo(g,h,i)perylene	0.8796	0.9069	0.8659	0.9049	0.8950	0.8966	0.8699	AVRG		1.12562		0.8884	2	15	0.05	0.99	
Nitrobenzene-d5	0.2932	0.3052	0.3180	0.3325	0.3311	0.3307	0.3194	AVRG		3.13876		0.3186	5	15	0.05	0.99	
2-Fluorobiphenyl	1.8072	1.8100	1.7387	1.7122	1.6056	1.4474	1.2944	AVRG		0.61320		1.6308	12	15	0.05	0.99	
Terphenyl-d14	1.2106	1.1986	1.1859	1.1921	1.1468	1.0630	0.9691	AVRG		0.87871		1.1380	8	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.1000	8	0.2000	7	0.5000	5	1.0000	6	2.0000	0	5.0000	-8	10.000	-17
Acenaphthylene	0.1000	7	0.2000	7	0.5000	7	1.0000	5	2.0000	-1	5.0000	-8	10.000	-18
Acenaphthene	0.1000	4	0.2000	7	0.5000	4	1.0000	5	2.0000	0	5.0000	-6	10.000	-14
Fluorene	0.1000	8	0.2000	8	0.5000	6	1.0000	4	2.0000	0	5.0000	-8	10.000	-18
Phenanthrene	0.1000	7	0.2000	8	0.5000	3	1.0000	5	2.0000	1	5.0000	-7	10.000	-17
Anthracene	0.1000	7	0.2000	6	0.5000	4	1.0000	6	2.0000	1	5.0000	-7	10.000	-17
Fluoranthene	0.1000	8	0.2000	8	0.5000	4	1.0000	4	2.0000	1	5.0000	-9	10.000	-16
Pyrene	0.1000	10	0.2000	7	0.5000	5	1.0000	4	2.0000	-2	5.0000	-8	10.000	-18
Benzo(a)anthracene	0.1000	5	0.2000	7	0.5000	3	1.0000	6	2.0000	1	5.0000	-7	10.000	-16
Chrysene	0.1000	4	0.2000	6	0.5000	6	1.0000	6	2.0000	2	5.0000	-7	10.000	-18
Benzo(b)fluoranthene	0.1000	5	0.2000	4	0.5000	2	1.0000	4	2.0000	1	5.0000	-5	10.000	-12
Benzo(k)fluoranthene	0.1000	1	0.2000	1	0.5000	7	1.0000	11	2.0000	-4	5.0000	-4	10.000	-12
Benzo(a)pyrene	0.1000	1	0.2000	3	0.5000	1	1.0000	5	2.0000	2	5.0000	-3	10.000	-9
Indeno(1,2,3-cd)pyrene	0.1000	-5	0.2000	0	0.5000	-2	1.0000	3	2.0000	2	5.0000	2	10.000	-1
Dibenz(a,h)anthracene	0.1000	-7	0.2000	-4	0.5000	-4	1.0000	2	2.0000	3	5.0000	5	10.000	5
Benzo(g,h,i)perylene	0.1000	-1	0.2000	2	0.5000	-3	1.0000	2	2.0000	1	5.0000	1	10.000	-2
Nitrobenzene-d5	0.1000	-8	0.2000	-4	0.5000	0	1.0000	4	2.0000	4	5.0000	4	10.000	0
2-Fluorobiphenyl	0.1000	11	0.2000	11	0.5000	7	1.0000	5	2.0000	-2	5.0000	-11	10.000	-21
Terphenyl-d14	0.1000	6	0.2000	5	0.5000	4	1.0000	5	2.0000	1	5.0000	-7	10.000	-15

YW1 10/04/18 [1,4-Dioxane]: Corrected automatically drawn baseline in multiple levels.

Analyst: YW1

Date: 10/04/18

Reviewer: LW

Date: 10/04/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528398235001

Name : 3PAHSIM
Cal Date : 03-OCT-2018

ICV 528398235011 (vj311 03-OCT-2018) stds: S38459

Analyte	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.000	0.9540	ug/mL	-5	30	
Acenaphthylene	1.000	1.012	ug/mL	1	30	
Acenaphthene	1.000	0.9431	ug/mL	-6	20	
Fluorene	1.000	0.9929	ug/mL	-1	30	
Phenanthrene	1.000	0.9616	ug/mL	-4	30	
Anthracene	1.000	0.9619	ug/mL	-4	30	
Fluoranthene	1.000	0.9621	ug/mL	-4	20	
Pyrene	1.000	0.9669	ug/mL	-3	30	
Benzo(a)anthracene	1.000	0.9756	ug/mL	-2	30	
Chrysene	1.000	0.9466	ug/mL	-5	30	
Benzo(b)fluoranthene	1.000	0.9604	ug/mL	-4	30	
Benzo(k)fluoranthene	1.000	0.9338	ug/mL	-7	30	
Benzo(a)pyrene	1.000	1.003	ug/mL	0	20	
Indeno(1,2,3-cd)pyrene	1.000	0.9865	ug/mL	-1	30	
Dibenz(a,h)anthracene	1.000	0.9838	ug/mL	-2	30	
Benzo(g,h,i)perylene	1.000	1.041	ug/mL	4	30	

Analyst: YW1

Date: 10/04/18

Reviewer: LW

Date: 10/04/18

ENTHALPY CONTINUING CALIBRATION FOR 303845 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528408101006 File : vja06 Time : 10-OCT-2018 12:00
 Cal : 528398235001 Caldate : 03-OCT-2018
 Standards: S38013

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0081	1.0447	2.000	2.073	ug/mL	4	30	0.0500	
Acenaphthylene	1.7659	1.8094	2.000	2.049	ug/mL	2	30	0.0500	
Acenaphthene	1.1008	1.1436	2.000	2.078	ug/mL	4	20	0.0500	
Fluorene	1.3547	1.3939	2.000	2.058	ug/mL	3	30	0.0500	
Phenanthrene	1.0400	1.0852	2.000	2.087	ug/mL	4	30	0.0500	
Anthracene	1.0253	1.0643	2.000	2.076	ug/mL	4	30	0.0500	
Fluoranthene	1.2385	1.2384	2.000	2.000	ug/mL	0	20	0.0500	
Pyrene	1.3966	1.5381	2.000	2.203	ug/mL	10	30	0.0500	
Benzo(a)anthracene	1.2750	1.3172	2.000	2.066	ug/mL	3	30	0.0500	
Chrysene	1.2177	1.2697	2.000	2.085	ug/mL	4	30	0.0500	
Benzo(b)fluoranthene	1.2911	1.3517	2.000	2.094	ug/mL	5	30	0.0500	
Benzo(k)fluoranthene	1.3137	1.3489	2.000	2.054	ug/mL	3	30	0.0500	
Benzo(a)pyrene	1.1565	1.2270	2.000	2.122	ug/mL	6	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1305	1.2655	2.000	2.239	ug/mL	12	30	0.0500	
Dibenz(a,h)anthracene	0.9141	1.0297	2.000	2.253	ug/mL	13	30	0.0500	
Benzo(g,h,i)perylene	0.8884	0.9711	2.000	2.186	ug/mL	9	30	0.0500	
Nitrobenzene-d5	0.3186	0.4315	2.000	2.709	ug/mL	35	30	0.0500	c+
2-Fluorobiphenyl	1.6308	1.5844	2.000	1.943	ug/mL	-3	30	0.0500	
Terphenyl-d14	1.1380	1.2005	2.000	2.110	ug/mL	5	30	0.0500	

VQ 10/10/18 [1,4-Dioxane]: Corrected automatically drawn baseline.

Analyst: VO Date: 10/10/18 Reviewer: LW Date: 10/10/18

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 303845 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528418192004 File : vjh04 Time : 17-OCT-2018 10:55
 Cal : 528398235001 Caldate : 03-OCT-2018
 Standards: S38012

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0081	1.0952	1.000	1.086	ug/mL	9	30	0.0500	
Acenaphthylene	1.7659	1.8814	1.000	1.065	ug/mL	7	30	0.0500	
Acenaphthene	1.1008	1.2094	1.000	1.099	ug/mL	10	20	0.0500	
Fluorene	1.3547	1.4322	1.000	1.057	ug/mL	6	30	0.0500	
Phenanthrene	1.0400	1.1603	1.000	1.116	ug/mL	12	30	0.0500	
Anthracene	1.0253	1.1036	1.000	1.076	ug/mL	8	30	0.0500	
Fluoranthene	1.2385	1.2859	1.000	1.038	ug/mL	4	20	0.0500	
Pyrene	1.3966	1.6182	1.000	1.159	ug/mL	16	30	0.0500	
Benzo(a)anthracene	1.2750	1.3646	1.000	1.070	ug/mL	7	30	0.0500	
Chrysene	1.2177	1.2991	1.000	1.067	ug/mL	7	30	0.0500	
Benzo(b)fluoranthene	1.2911	1.3941	1.000	1.080	ug/mL	8	30	0.0500	
Benzo(k)fluoranthene	1.3137	1.3375	1.000	1.018	ug/mL	2	30	0.0500	
Benzo(a)pyrene	1.1565	1.2320	1.000	1.065	ug/mL	7	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1305	1.2632	1.000	1.117	ug/mL	12	30	0.0500	
Dibenz(a,h)anthracene	0.9141	0.9910	1.000	1.084	ug/mL	8	30	0.0500	
Benzo(g,h,i)perylene	0.8884	0.9802	1.000	1.103	ug/mL	10	30	0.0500	
Nitrobenzene-d5	0.3186	0.4442	1.000	1.394	ug/mL	39	30	0.0500	c+
2-Fluorobiphenyl	1.6308	1.6874	1.000	1.035	ug/mL	3	30	0.0500	
Terphenyl-d14	1.1380	1.2688	1.000	1.115	ug/mL	11	30	0.0500	

YW1 10/17/18 [1,4-Dioxane]: Corrected automatically drawn baseline.

Analyst: YW1 Date: 10/17/18 Reviewer: LW Date: 10/17/18

+ = high bias c = CCV

ENTHALPY CONTINUING CALIBRATION FOR 303845 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528419614003 File : vji03 Time : 18-OCT-2018 10:20
 Cal : 528398235001 Caldate : 03-OCT-2018
 Standards: S38012

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0081	1.0897	1.000	1.081	ug/mL	8	30	0.0500	
Acenaphthylene	1.7659	1.8569	1.000	1.052	ug/mL	5	30	0.0500	
Acenaphthene	1.1008	1.2091	1.000	1.098	ug/mL	10	20	0.0500	
Fluorene	1.3547	1.4327	1.000	1.058	ug/mL	6	30	0.0500	
Phenanthrene	1.0400	1.1600	1.000	1.115	ug/mL	12	30	0.0500	
Anthracene	1.0253	1.1094	1.000	1.082	ug/mL	8	30	0.0500	
Fluoranthene	1.2385	1.3375	1.000	1.080	ug/mL	8	20	0.0500	
Pyrene	1.3966	1.5266	1.000	1.093	ug/mL	9	30	0.0500	
Benzo(a)anthracene	1.2750	1.3585	1.000	1.066	ug/mL	7	30	0.0500	
Chrysene	1.2177	1.3022	1.000	1.069	ug/mL	7	30	0.0500	
Benzo(b)fluoranthene	1.2911	1.3747	1.000	1.065	ug/mL	6	30	0.0500	
Benzo(k)fluoranthene	1.3137	1.3512	1.000	1.029	ug/mL	3	30	0.0500	
Benzo(a)pyrene	1.1565	1.2344	1.000	1.067	ug/mL	7	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1305	1.2462	1.000	1.102	ug/mL	10	30	0.0500	
Dibenz(a,h)anthracene	0.9141	0.9646	1.000	1.055	ug/mL	6	30	0.0500	
Benzo(g,h,i)perylene	0.8884	0.9622	1.000	1.083	ug/mL	8	30	0.0500	
Nitrobenzene-d5	0.3186	0.4297	1.000	1.349	ug/mL	35	30	0.0500	c+
2-Fluorobiphenyl	1.6308	1.7179	1.000	1.053	ug/mL	5	30	0.0500	
Terphenyl-d14	1.1380	1.2177	1.000	1.070	ug/mL	7	30	0.0500	

YW1 10/18/18 [1,4-Dioxane]: Corrected automatically drawn baseline.

Analyst: YW1 Date: 10/18/18 Reviewer: LW Date: 10/18/18

+ = high bias c = CCV

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528408101

Date : 10/10/18
 Sequence : MSBNA03 vja

Reference : vja06
 Analyzed : 10/10/18 12:00

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+CCV/BS+CCV/LCS+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	30669	7.41	120681	9.04	73056	11.36	131399	13.31	105489	16.78	87381	18.52
		LOWER LIMIT	15335	6.91	60341	8.54	36528	10.86	65700	12.81	52745	16.28	43691	18.02
		UPPER LIMIT	61338	7.91	241362	9.54	146112	11.86	262798	13.81	210978	17.28	174762	19.02
006	CCV	CCV	30669	7.41	120681	9.04	73056	11.36	131399	13.31	105489	16.78	87381	18.52
007	SAMPLE	303491-001	31326	7.41	128119	9.04	82644	11.36	142268	13.31	73256	16.79	63701	18.52
008	SAMPLE	303491-002	33623	7.41	133935	9.04	87307	11.35	152713	13.31	78557	16.78	71943	18.52
009	SAMPLE	303491-003	34111	7.41	140724	9.04	90560	11.35	160448	13.31	120029	16.78	95234	18.52
010	SAMPLE	303491-004	34351	7.41	138227	9.04	85206	11.35	148622	13.31	79692	16.78	68599	18.52
011	SAMPLE	303411-001	35442	7.41	142375	9.05	87972	11.36	156818	13.31	103950	16.78	81696	18.52
012	SAMPLE	303411-002	34896	7.41	140992	9.04	87751	11.35	160507	13.31	115165	16.78	85553	18.52
013	SAMPLE	303411-003	38408	7.41	155784	9.04	97462	11.36	175580	13.31	120125	16.78	86670	18.52
014	SAMPLE	303411-004	35687	7.41	144406	9.04	90298	11.36	165271	13.31	115386	16.78	82403	18.52
015	BLANK	QC950449	34764	7.41	142698	9.04	91685	11.35	167500	13.31	129437	16.78	104595	18.52
016	BS	QC950450	36079	7.41	144913	9.04	91621	11.35	167629	13.31	132716	16.78	110232	18.52
017	BSD	QC950451	34700	7.41	140483	9.04	88249	11.35	164428	13.31	131605	16.78	110881	18.52
018	SAMPLE	303375-002	31868	7.41	130825	9.04	89282	11.35	131664	13.31	80994	16.79	82676	18.52
019	SAMPLE	303375-017	33723	7.41	131652	9.04	85224	11.35	142999	13.31	105656	16.78	67856	18.52
020	SAMPLE	303375-018	33793	7.41	121497	9.04	73104	11.36	113638	13.31	80005	16.78	74511	18.52
021	SAMPLE	303588-001	32619	7.41	131639	9.04	82937	11.35	146707	13.31	115511	16.78	82348	18.52
022	SAMPLE	303588-002	33067	7.41	133957	9.04	87072	11.35	155572	13.31	121511	16.78	94697	18.52
023	BLANK	QC950896	31626	7.41	131177	9.04	85290	11.35	156881	13.31	127828	16.78	103133	18.51
024	LCS	QC950897	33901	7.41	136523	9.04	85270	11.35	158051	13.31	127844	16.78	103810	18.52
025	SAMPLE	303887-001	104 *	7.40	591 *	9.03	755 *	11.33	2081 *	13.31	893 *	16.79	1950 *	18.27

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528418192

Date : 10/17/18
 Sequence : MSBNA03 vjh

Reference : vjh04
 Analyzed : 10/17/18 10:55

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+CCV/BS+CCV/LCS+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	23152	7.40	92514	9.03	55806	11.35	99881	13.31	79516	16.78	65875	18.51
		LOWER LIMIT	11576	6.90	46257	8.53	27903	10.85	49941	12.81	39758	16.28	32938	18.01
		UPPER LIMIT	46304	7.90	185028	9.53	111612	11.85	199762	13.81	159032	17.28	131750	19.01
004	CCV	CCV	23152	7.40	92514	9.03	55806	11.35	99881	13.31	79516	16.78	65875	18.51
005	SAMPLE	303844-002	24763	7.40	102307	9.04	64714	11.35	114330	13.31	95213	16.77	78424	18.51
006	SAMPLE	303844-003	24892	7.40	103117	9.03	65645	11.35	115177	13.31	96534	16.77	80220	18.51
007	SAMPLE	303844-004	24937	7.40	102581	9.03	65675	11.35	114406	13.31	94883	16.77	78577	18.51
008	SAMPLE	303844-005	25614	7.40	106601	9.04	67497	11.35	120116	13.30	99005	16.77	82701	18.51
009	SAMPLE	303844-006	25607	7.40	105843	9.03	67225	11.34	118414	13.30	97825	16.77	79966	18.51
010	SAMPLE	303830-002	26643	7.40	110345	9.03	69587	11.35	123763	13.31	100799	16.77	88772	18.51
011	SAMPLE	303830-003	16140	7.41	77637	9.04	60051	11.35	89988	13.31	71777	16.78	66388	18.51
012	SAMPLE	303830-004	27428	7.40	109019	9.04	71086	11.34	123113	13.30	89790	16.78	75674	18.51
013	SAMPLE	303830-005	24460	7.40	91070	9.04	59078	11.35	93475	13.31	69110	16.78	59556	18.52
014	SAMPLE	303837-004	28553	7.40	116590	9.03	74203	11.35	131783	13.31	104646	16.78	73650	18.51
015	SAMPLE	303837-009	25657	7.40	105884	9.04	68626	11.34	121880	13.30	98826	16.77	72367	18.51
016	SAMPLE	303837-014	26001	7.40	107842	9.04	70322	11.34	124747	13.31	105157	16.77	76933	18.51
017	SAMPLE	304117-001	25429	7.40	104286	9.04	66886	11.35	120147	13.31	98479	16.78	74279	18.51
018	MS	QC950898	26243	7.40	98983	9.04	59092	11.35	94070	13.31	66312	16.78	46513	18.52
019	MSD	QC950899	26824	7.40	101445	9.04	60844	11.35	96364	13.31	60690	16.78	40998	18.52
020	MSS	303882-003	27121	7.40	103758	9.04	62524	11.35	98287	13.31	59126	16.78	41309	18.52
021	SAMPLE	304118-005	26365	7.41	94958	9.04	46790	11.36	65993	13.31	52105	16.78	39453	18.52
022	SAMPLE	303845-001	27005	7.40	106991	9.03	68782	11.35	121490	13.31	72039	16.78	45738	18.52
023	SAMPLE	303845-002	27129	7.41	111290	9.04	70954	11.35	125422	13.31	75526	16.78	47373	18.51

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528419614

Date : 10/18/18
 Sequence : MSBNA03 vji

Reference : vji03
 Analyzed : 10/18/18 10:20

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+CCV/BS+CCV/LCS+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	21458	7.41	86295	9.04	51680	11.35	94015	13.31	81168	16.78	69253	18.51
		LOWER LIMIT	10729	6.91	43148	8.54	25840	10.85	47008	12.81	40584	16.28	34627	18.01
		UPPER LIMIT	42916	7.91	172590	9.54	103360	11.85	188030	13.81	162336	17.28	138506	19.01
003	CCV	CCV	21458	7.41	86295	9.04	51680	11.35	94015	13.31	81168	16.78	69253	18.51
004	SAMPLE	303845-003	26273	7.41	105029	9.04	69870	11.35	129447	13.31	109643	16.77	97186	18.51
005	SAMPLE	303845-004	25971	7.41	106234	9.04	69450	11.35	128000	13.31	109248	16.77	92773	18.51
006	SAMPLE	303860-001	24470	7.41	109672	9.04	72341	11.35	135054	13.31	114191	16.77	98449	18.51
008	SAMPLE	303882-002	24802	7.41	100133	9.04	65123	11.35	106119	13.31	90231	16.78	78257	18.51
009	SAMPLE	303837-004	29345	7.41	122187	9.04	77741	11.35	143899	13.30	126584	16.78	102115	18.51
010	SAMPLE	303882-001	26905	7.40	108632	9.03	71045	11.35	119610	13.31	104982	16.77	83152	18.51
011	SAMPLE	303837-009	27178	7.40	113974	9.04	73103	11.35	135011	13.30	117329	16.77	88070	18.51
012	SAMPLE	303830-003	22324	7.41	94913	9.04	67825	11.35	109825	13.31	96940	16.77	78043	18.51
013	SAMPLE	303830-005	27524	7.40	112522	9.04	73488	11.34	133349	13.30	115709	16.77	87482	18.51
014	SAMPLE	304117-001	27554	7.40	113685	9.04	73706	11.34	136390	13.30	120163	16.77	89454	18.51
016	SAMPLE	218623-093	29356	7.41	123210	9.04	77210	11.35	145790	13.31	127044	16.77	95411	18.51
017	SAMPLE	303744-001	26790	7.40	113964	9.04	71141	11.34	134339	13.30	117529	16.77	89189	18.50

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528398235

Instrument : MSBNA03 Begun : 10/03/18 13:15
 Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv6, bna_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vj301	IB	IB			10/03/18 13:15	1.0		?t
002	vj302	TUN	DFTPP/PEM			10/03/18 13:40	1.0	1	t
003	vj303	TUN	DFTPP/PEM			10/03/18 17:24	1.0	1	
004	vj304	ICAL	ICAL			10/03/18 18:23	1.0	2	
005	vj305	ICAL	ICAL			10/03/18 18:55	1.0	3	
006	vj306	ICAL	ICAL			10/03/18 19:27	1.0	4	
007	vj307	ICAL	ICAL			10/03/18 20:00	1.0	5	
008	vj308	ICAL	ICAL			10/03/18 20:32	1.0	6	
009	vj309	ICAL	ICAL			10/03/18 21:05	1.0	7	
010	vj310	ICAL	ICAL			10/03/18 21:38	1.0	8	
011	vj311	ICV	ICV			10/03/18 22:10	1.0	9	

YW1 10/04/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 11.

Standards used: 1=S38424 2=S38009 3=S38010 4=S38011 5=S38012 6=S38013 7=S38014 8=S38015 9=S38459

Flags used: ?t=missing tune t=tune failure

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528408101

Instrument : MSBNA03 Begun : 10/10/18 09:41
 Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv6, bna_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vja01	IB	IB			10/10/18 09:41	1.0		?t
002	vja02	TUN	DFTPP/PEM			10/10/18 10:07	1.0	1	t
003	vja03	IB	IB			10/10/18 10:48	1.0		t
004	vja04	TUN	DFTPP/PEM			10/10/18 11:13	1.0	1	t
005	vja05	TUN	DFTPP/PEM			10/10/18 11:32	1.0	1	
006	vja06	CCV	CCV			10/10/18 12:00	1.0	2	
007	vja07	SAMPLE	303491-001	Soil	263959	10/10/18 12:44	2.0	3	
008	vja08	SAMPLE	303491-002	Soil	263959	10/10/18 13:17	20.0	3	
009	vja09	SAMPLE	303491-003	Soil	263959	10/10/18 13:50	20.0	3	
010	vja10	SAMPLE	303491-004	Soil	263959	10/10/18 14:22	2.0	3	
011	vja11	SAMPLE	303411-001	Miscell.	263959	10/10/18 14:55	1.0	3	
012	vja12	SAMPLE	303411-002	Miscell.	263959	10/10/18 15:27	1.0	3	
013	vja13	SAMPLE	303411-003	Miscell.	263959	10/10/18 16:00	1.0	3	
014	vja14	SAMPLE	303411-004	Miscell.	263959	10/10/18 16:32	1.0	3	
015	vja15	BLANK	QC950449	Water	264208	10/10/18 17:06	1.0	3	
016	vja16	BS	QC950450	Water	264208	10/10/18 17:38	1.0	3	spk
017	vja17	BSD	QC950451	Water	264208	10/10/18 18:10	1.0	3	
018	vja18	SAMPLE	303375-002	Water	263843	10/10/18 18:42	1.0	3	
019	vja19	SAMPLE	303375-017	Water	263843	10/10/18 19:14	10.0	3	
020	vja20	SAMPLE	303375-018	Water	263843	10/10/18 19:46	1.0	3	
021	vja21	SAMPLE	303588-001	Soil	263959	10/10/18 20:19	1.0	3	
022	vja22	SAMPLE	303588-002	Soil	263959	10/10/18 20:51	1.0	3	
023	vja23	BLANK	QC950896	Water	264323	10/10/18 21:24	1.0	3	
024	vja24	LCS	QC950897	Water	264323	10/10/18 21:56	1.0	3	
025	vja25	SAMPLE	303887-001	Water	264323	10/10/18 22:29	100.0	3	4:MTNPH1=89
026	vja26	SAMPLE	303799-001	Water	264208	10/10/18 23:03	1.0	3	
027	vja27	CCV	CCV			10/10/18 23:35	1.0	2	<<t

VQ 10/10/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 10.

VQ 10/10/18 : Adjusted EM Voltage before passing TUN run.

VQ 10/10/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 11 through 14.

VQ 10/11/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 15 through 27.

Standards used: 1=S38424 2=S38013 3=S37709

Flags used: <<t=out of clock ?t=missing tune spk=5% spike rule t=tune failure

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528418192

Instrument : MSBNA03 Begun : 10/17/18 09:52
 Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv6, bna_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vjh01	IB	IB			10/17/18 09:52	1.0		?t
002	vjh02	TUN	DFTPP/PEM			10/17/18 10:17	1.0	1	t
003	vjh03	TUN	DFTPP/PEM			10/17/18 10:38	1.0	1	
004	vjh04	CCV	CCV			10/17/18 10:55	1.0	2	
005	vjh05	SAMPLE	303844-002	Soil	264296	10/17/18 11:27	10.0	3	
006	vjh06	SAMPLE	303844-003	Soil	264296	10/17/18 12:00	10.0	3	
007	vjh07	SAMPLE	303844-004	Soil	264296	10/17/18 12:33	10.0	3	
008	vjh08	SAMPLE	303844-005	Soil	264296	10/17/18 13:05	10.0	3	
009	vjh09	SAMPLE	303844-006	Soil	264296	10/17/18 13:37	10.0	3	
010	vjh10	SAMPLE	303830-002	Water	264208	10/17/18 14:09	1.0	3	
011	vjh11	SAMPLE	303830-003	Water	264208	10/17/18 14:41	50.0	3	
012	vjh12	SAMPLE	303830-004	Water	264208	10/17/18 15:12	1.0	3	
013	vjh13	SAMPLE	303830-005	Water	264208	10/17/18 15:44	1.0	3	
014	vjh14	SAMPLE	303837-004	Soil	264296	10/17/18 16:16	1.0	3	
015	vjh15	SAMPLE	303837-009	Soil	264296	10/17/18 16:48	5.0	3	
016	vjh16	SAMPLE	303837-014	Soil	264296	10/17/18 17:19	10.0	3	
017	vjh17	SAMPLE	304117-001	Soil	264523	10/17/18 17:53	3.0	3	
018	vjh18	MS	QC950898	Water	264323	10/17/18 18:28	1.0	3	
019	vjh19	MSD	QC950899	Water	264323	10/17/18 19:02	1.0	3	
020	vjh20	MSS	303882-003	Water	264323	10/17/18 19:35	1.0	3	
021	vjh21	SAMPLE	304118-005	Soil	264523	10/17/18 20:10	5.0	3	
022	vjh22	SAMPLE	303845-001	Water	264323	10/17/18 20:43	1.0	3	
023	vjh23	SAMPLE	303845-002	Water	264323	10/17/18 21:17	1.0	3	

YW1 10/18/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 23.

Standards used: 1=S38424 2=S38012 3=S37709

Flags used: ?t=missing tune t=tune failure

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528419614

Instrument : MSBNA03 Begun : 10/18/18 09:34
 Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv6, bna_rv14

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vji01	IB	IB			10/18/18 09:34	1.0		?t
002	vji02	TUN	DFTPP/PEM			10/18/18 09:59	1.0	1	
003	vji03	CCV	CCV			10/18/18 10:20	1.0	2	
004	vji04	SAMPLE	303845-003	Water	264323	10/18/18 10:53	1.0	3	
005	vji05	SAMPLE	303845-004	Water	264323	10/18/18 11:28	1.0	3	
006	vji06	SAMPLE	303860-001	Water	264323	10/18/18 12:02	1.0	3	
008	vji08	SAMPLE	303882-002	Water	264323	10/18/18 12:35	10.0	3	
009	vji09	SAMPLE	303837-004	Soil	264296	10/18/18 13:09	1.0	3	
010	vji10	SAMPLE	303882-001	Water	264323	10/18/18 13:42	33.30	3	
011	vji11	SAMPLE	303837-009	Soil	264296	10/18/18 14:15	5.0	3	
012	vji12	SAMPLE	303830-003	Water	264208	10/18/18 14:48	100.0	3	high NT
013	vji13	SAMPLE	303830-005	Water	264208	10/18/18 15:20	20.0	3	high NT
014	vji14	SAMPLE	304117-001	Soil	264523	10/18/18 15:53	3.0	3	
016	vji16	SAMPLE	218623-093	Water	264578	10/18/18 18:28	1.0	3	sh
017	vji17	SAMPLE	303744-001	Water	264578	10/18/18 19:02	1.0	3	sh

YW1 10/18/18 : DCM lot EM58145 used for vialing and dilutions.

YW1 10/19/18 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 17.

YW1 10/18/18 : File vji07 does not exist because the sample that was in line to run there was not needed so it was removed from the sequence but the file names were not updated.

SAMPLE PREPARATION SUMMARY

Batch # : 264323
 Started By : ECI
 Method : 3520C
 Spike #1 ID : S37444

Prep Date : 08-OCT-2018 16:22
 Spike #2 ID : S37832

Analysis : 14DIOXANE
 Finished By : JCT
 Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
303845-001		Water	1050	1	1	0.0009524	5	1				8270-SIM	
303845-002		Water	1050	1	1	0.0009524	6	1				8270-SIM	
303845-003		Water	1050	1	1	0.0009524	7	1				8270-SIM	
303845-004		Water	1050	1	1	0.0009524	7	1				8270-SIM	
303860-001		Water	1000	1	1	0.001	7	1				14DIOXANE	
303882-001		Water	1000	1	1	0.001	6	1				14DIOXANE	
303882-002		Water	1000	1	1	0.001	7	1				14DIOXANE	
303882-003		Water	1000	1	1	0.001	6	1				14DIOXANE	MSS as per client
303887-001		Water	1000	1	1	0.001	11	1				8270-SIM	
QC950896	BLANK	Water	1000	1	1	0.001		1				8270-SIM	
QC950897	LCS	Water	1000	1	1	0.001		1	1			8270-SIM	
QC950898	MS	Water	1000	1	1	0.001	6	1	1			8270-SIM	
QC950899	MSD	Water	1000	1	1	0.001	6	1	1			8270-SIM	

LW 10/11/18 : Paperwork, Blank and LCS reviewed

Analyst: YW1

Date: 10/18/18

Reviewer: LW

Date: 10/18/18

LIMS Batch No: 264323
 LIMS Analysis: 8270-SIM
 Date Extracted: 10/8/18

Extraction Method:
 EPA 3520c cont. L/L

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Confirmed Adjusted pH	Comments
303845-001	F	1050	7.5	1.0	≤2 ≥11	
↓	2	G	6	1.0	≤2 ≥11	
	3	G		1.0	≤2 ≥11	
	4	F		1.0	≤2 ≥11	
5 303860-001	D	1000	7	1.0	≤2 ≥11	
303882-001	D	1000	7.6	1.0	≤2 ≥11	
↓	2	E		1.0	≤2 ≥11	
	3	N		1.0	≤2 ≥11	NSS as per client
303887-001	I	1000	7.11	1.0	≤2 ≥11	
10 MB 00950896	NA	1000	7.11	1.0	≤2 ≥11	
LCS	7	b	7.11	1.0	≤2 ≥11	
MS	8	O	7.6	1.0	≤2 ≥11	
MSD	9	K	7.6	1.0	≤2 ≥11	

15			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
20			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	
			7	1.0	≤2 ≥11	

MS/MSD not included due to: insufficient volume, or other (reason)

checked sample pH using pH strips - lot #
 1.0 mL of surrogate solution was added to all samples
 1.0 mL of matrix spiking solution was added to all spikes
 pH of all samples adjusted to pH ≤ 2 (low pH strip lot# 10BDH49S1 with H₂SO₄)
 Cont. L/L extracted with 450mL of CH₂Cl₂

Extraction Start Time: 10:22

Extraction End Time: 10:22

pH of all samples adjusted to pH ≥ 11 (high pH strip lot # _____) with 10 N NaOH

Extraction Start Time: N/A

Extraction End Time: ↓

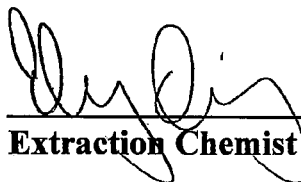
Extracts filtered through baked, CH₂Cl₂-rinsed ^{powder} granular Na₂SO₄

Concentrated to final volume at temperature (degrees C) 70 °C

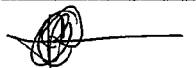
Using thermometer(s) # SN 4155681

Relinquished to BNA department ✓

Lot# / LIMS # / Time	Date / Initials
10BDH49S1	JCT 10/9/18
83744C	
557832A	
FC176161	
PM58145	
16022	
10:22	JCT 10/9/18
N/A	
↓	
EM18D1956536	
70 °C	
SN 4155681	
✓	

 10/8/18
Extraction Chemist **Date**

Continued from Page _____
 Continued on Page _____

 10/9/18
Reviewed by **Date**

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 303845-001 Client ID : BR11-1GW01
 Seqnum : 528418192022 Matrix : Water Acct : TRC-SF (MJD)
 File : vjh22 Batch : 264323 Time : 17-OCT-2018 20:43
 Cal : 528398235001 Caldate : 03-OCT-2018
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1050.00 mL --> 1.0 ml = 0.0009524 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.003100	ND	0.1		u
Acenaphthylene	0.0009000	ND	0.1		u
Acenaphthene	0.003800	ND	0.1		u
Fluorene	0.002600	ND	0.1		u
Phenanthrene	0.002600	ND	0.1		u
Anthracene	0.001200	ND	0.1		u
Fluoranthene	0.002600	ND	0.1		u
Pyrene	0.006500	ND	0.1		u
Benzo(a)anthracene	0.002300	ND	0.1		u
Chrysene	0.002400	ND	0.1		u
Benzo(b)fluoranthene	0.002100	ND	0.1		u
Benzo(k)fluoranthene	0.002200	ND	0.1		u
Benzo(a)pyrene	0.003100	ND	0.1		u
Indeno(1,2,3-cd)pyrene	0.003800	ND	0.1		u
Dibenz(a,h)anthracene	0	ND	0.1		u
Benzo(g,h,i)perylene	0.01280	ND	0.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.9973	0.9524	0.9498	100	48-124	c+ u
2-Fluorobiphenyl	0.7264	0.9524	0.6918	73	51-120	u
Terphenyl-d14	1.080	0.9524	1.029	108	25-120	u

ISTD (CCV vjh04)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	92514	106991	15.65	9.03	9.03	0.00
Acenaphthene-d10	55806	68782	23.25	11.35	11.35	0.00
Phenanthrene-d10	99881	121490	21.63	13.31	13.31	0.00
Chrysene-d12	79516	72039	-9.40	16.78	16.78	0.00
Perylene-d12	65875	45738	-30.57	18.51	18.52	0.01

YW1 10/18/18 [Nitrobenzene-d5]: Recovery well within limits despite instrument bias

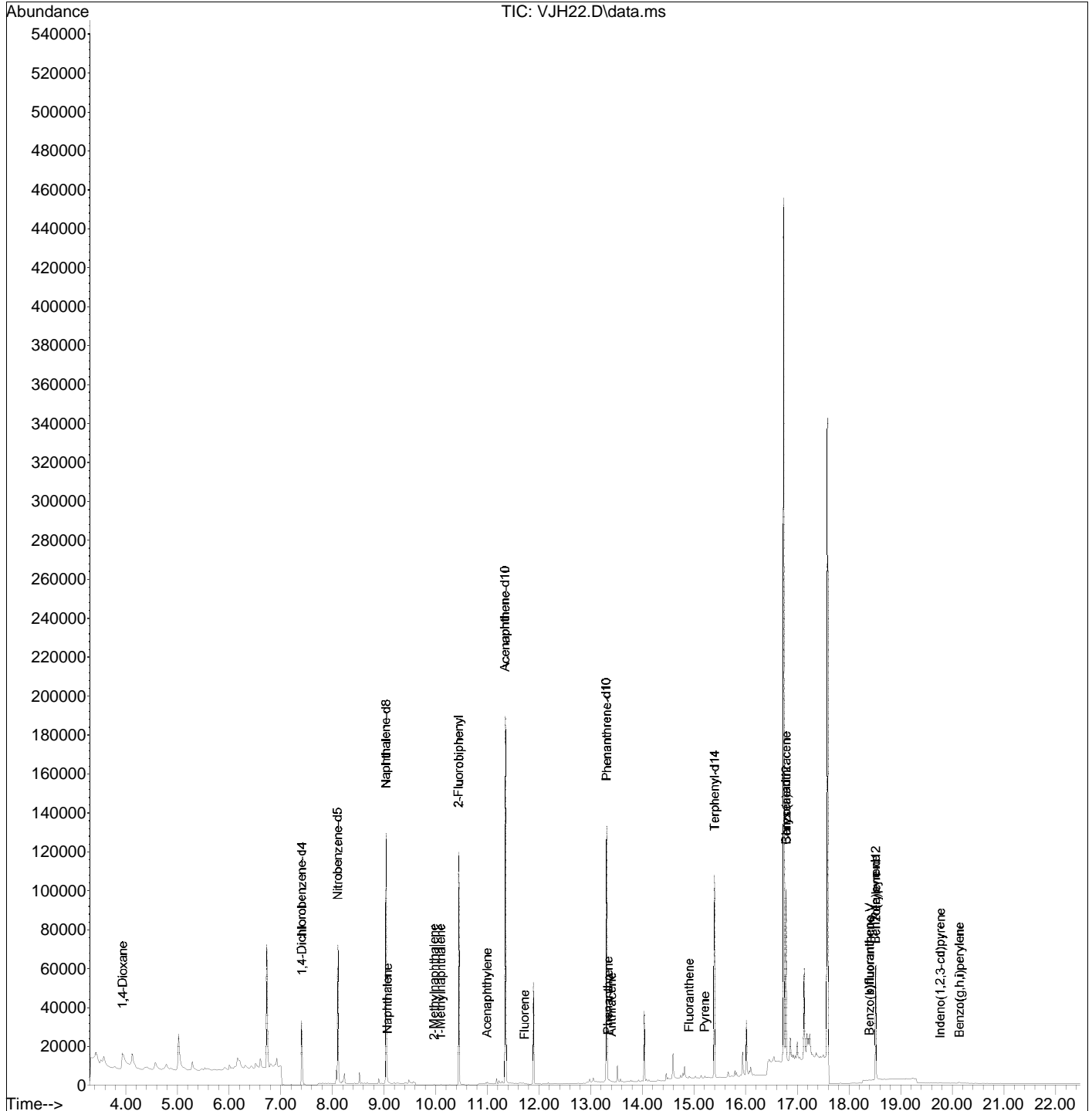
Analyst: YW1 Date: 10/18/18 Reviewer: LW Date: 10/18/18

+ = high bias c = CCV u = use

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101718\
 Data File : VJH22.D
 Acq On : 17 Oct 2018 8:43 pm
 Operator :
 Sample : s,303845-001
 Misc : 264323,1,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 17 21:06:15 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101718\
 Data File : VJH22.D
 Acq On : 17 Oct 2018 8:43 pm
 Operator :
 Sample : s,303845-001
 Misc : 264323,1,
 ALS Vial : 22 Sample Multiplier: 1

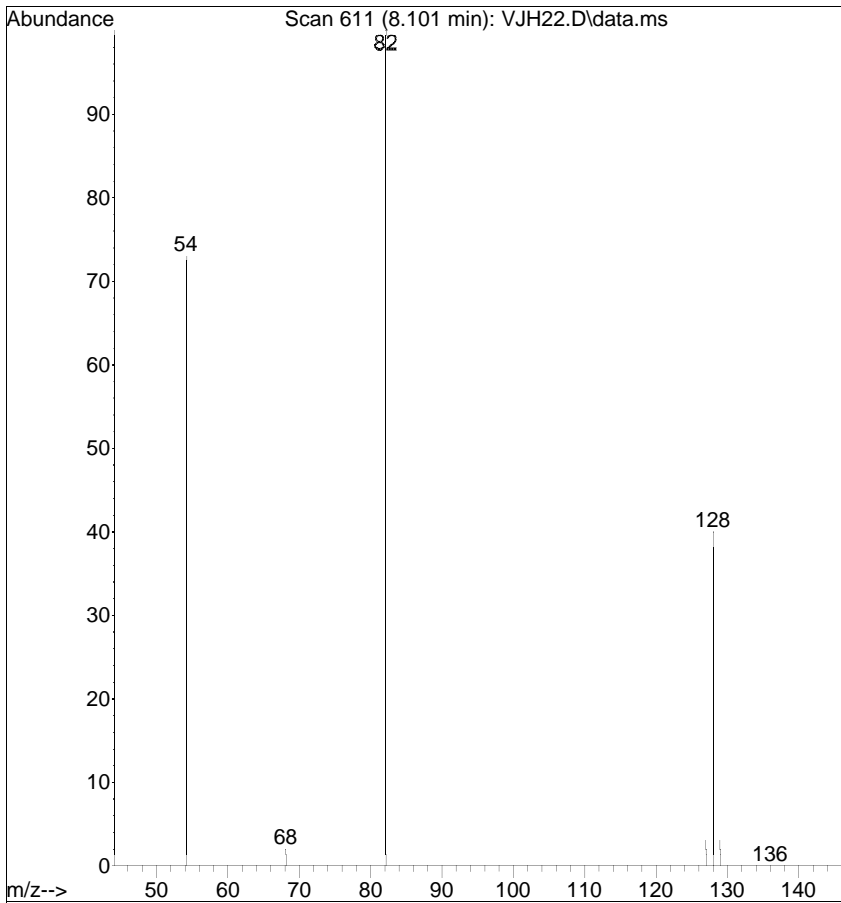
Quant Time: Oct 17 21:06:15 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.403	152	27005	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.034	136	106991	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.346	164	68782	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.306	188	121490	1.0000	ug/mL	0.00
18) Chrysene-d12	16.775	240	72039	1.0000	ug/mL	0.00
23) Perylene-d12	18.516	264	45738	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.939	88	1611	0.1300	ug/mL	# 50
4) Nitrobenzene-d5	8.101	82	33995	0.9973	ug/mL	92
5) Naphthalene	9.062	128	331	0.0031	ug/mL	# 45
6) 2-Methylnaphthalene	9.968	142	140	0.0017	ug/mL	80
7) 1-Methylnaphthalene	10.099	142	118	0.0016	ug/mL	# 67
9) 2-Fluorobiphenyl	10.444	172	81484	0.7264	ug/mL	92
10) Acenaphthylene	10.994	152	115	0.0009	ug/mL	# 1
11) Acenaphthene	11.346	154	284	0.0038	ug/mL	# 39
12) Fluorene	11.719	166	238	0.0026	ug/mL	# 28
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.336	178	330	0.0026	ug/mL	# 21
16) Anthracene	13.401	178	145	0.0012	ug/mL	# 21
17) Fluoranthene	14.905	202	397	0.0026	ug/mL	# 8
19) Pyrene	15.206	202	657	0.0065	ug/mL	# 47
20) Terphenyl-d14	15.391	244	88567	1.0803	ug/mL	87
21) Benzo(a)anthracene	16.775	228	213	0.0023	ug/mL	# 33
22) Chrysene	16.775	228	213	0.0024	ug/mL	# 42
24) Benzo(b)fluoranthene	18.395	252	125	0.0021	ug/mL	# 1
25) Benzo(k)fluoranthene	18.395	252	130	0.0022	ug/mL	# 1
26) Benzo(a)pyrene	18.510	252	163	0.0031	ug/mL	# 1
27) Indeno(1,2,3-cd)pyrene	19.766	276	194	0.0038	ug/mL	# 1
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
29) Benzo(g,h,i)perylene	20.136	276	522	0.0128	ug/mL	# 28

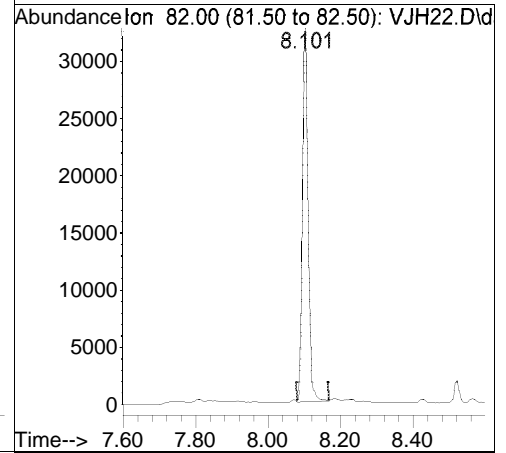
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

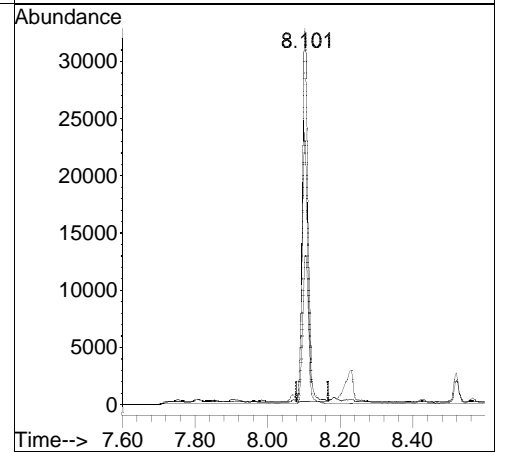
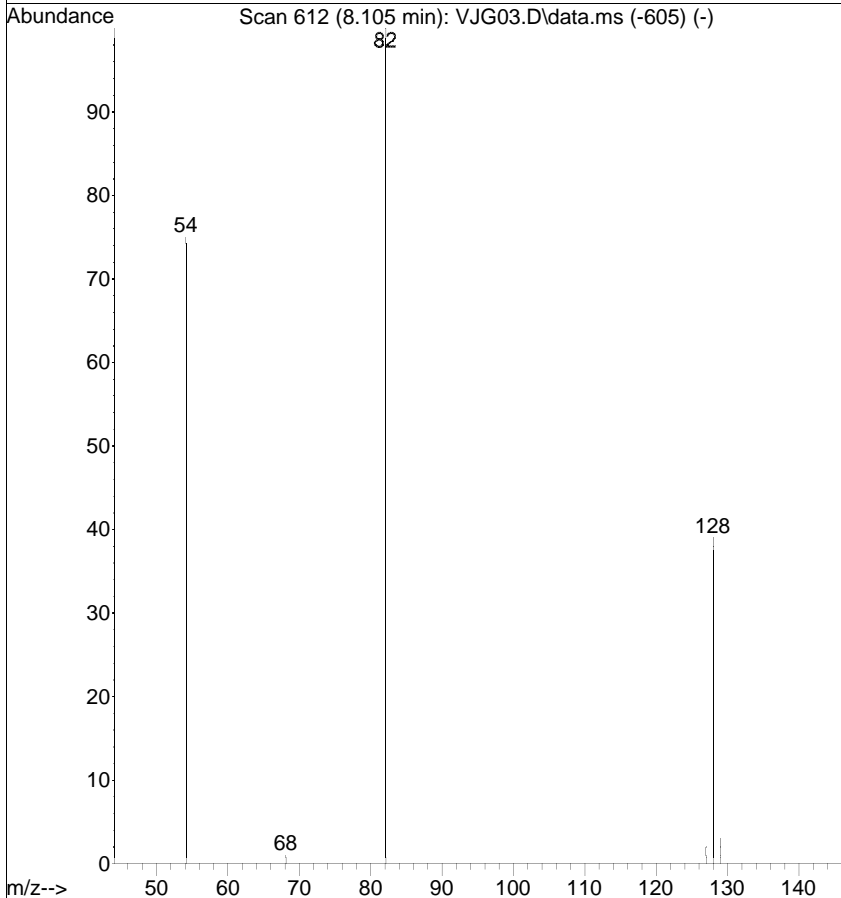


#4
 Nitrobenzene-d5
 Concen: 0.9973 ug/mL
 RT: 8.101 min Scan# 611
 Delta R.T. -0.004 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

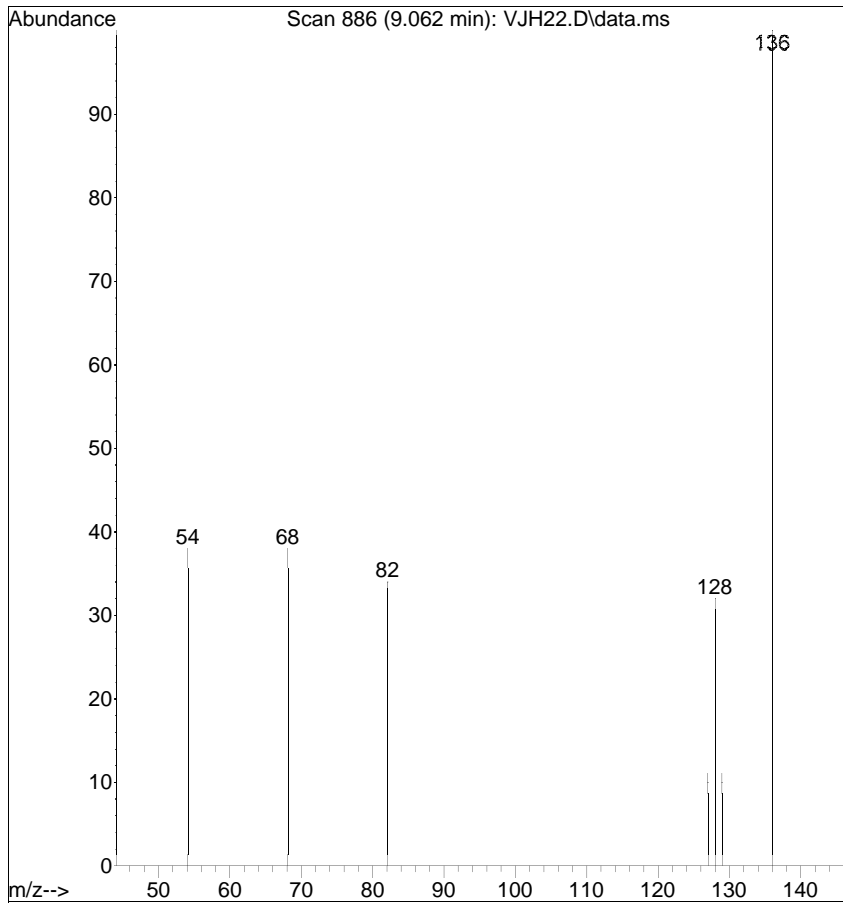
Tgt Ion	Resp	Lower	Upper
82	33995		
128	39.5	10.5	50.5
54	72.5	56.2	96.2



Ref



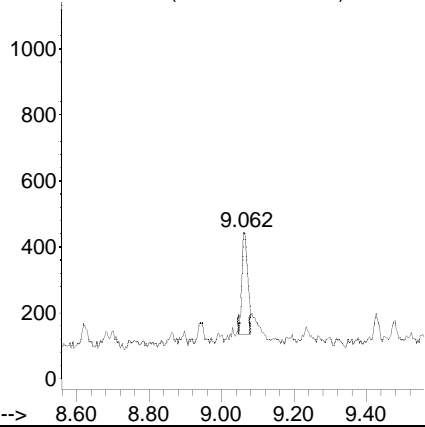
Raw



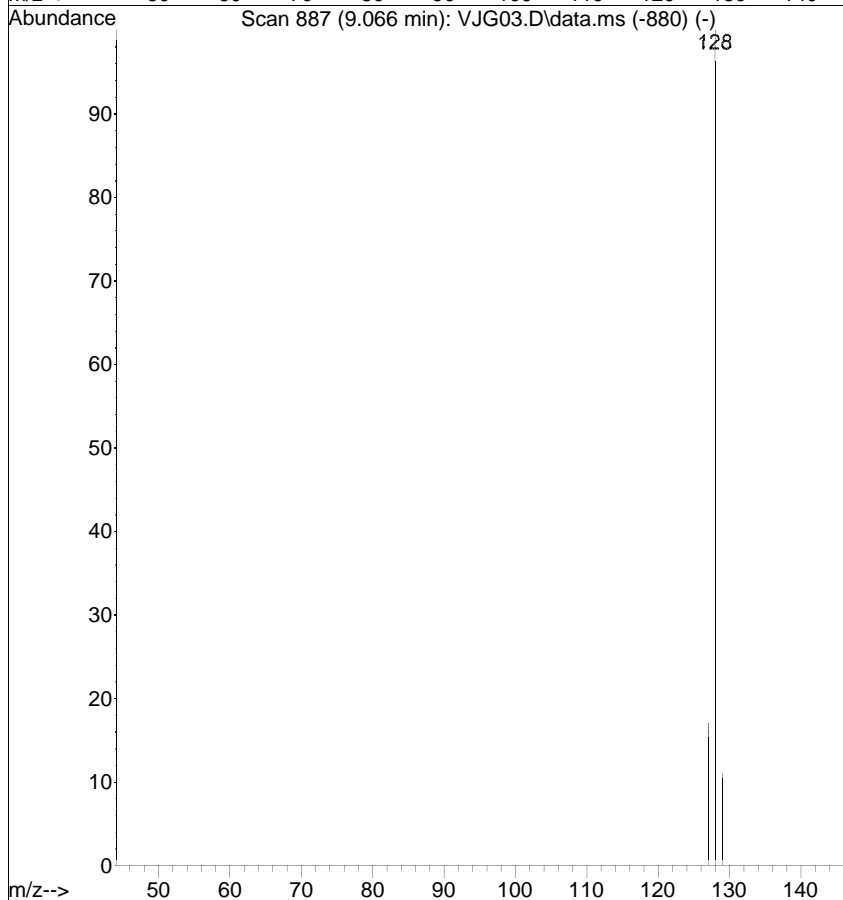
#5
 Naphthalene
 Concen: 0.0031 ug/mL
 RT: 9.062 min Scan# 886
 Delta R.T. -0.004 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
129	34.9	0.0	31.1#
127	33.8	0.0	34.0

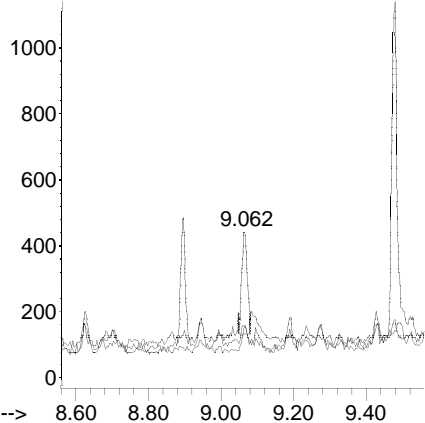
Abundance Ion 128.00 (127.50 to 128.50): VJH22.D



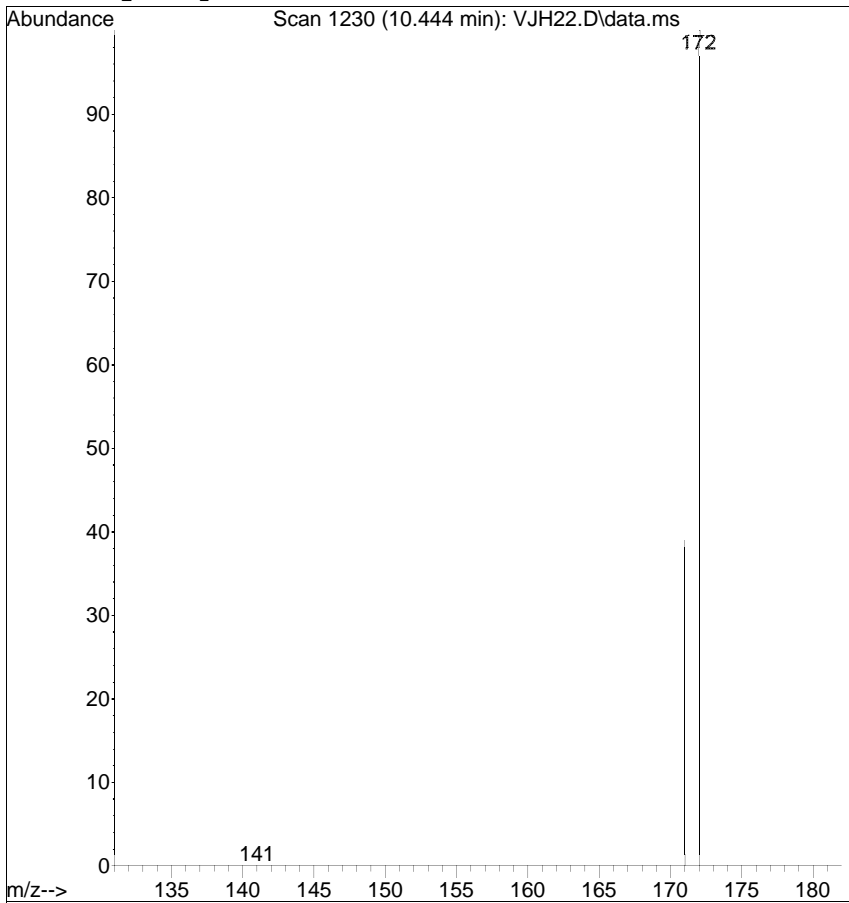
Ref



Abundance

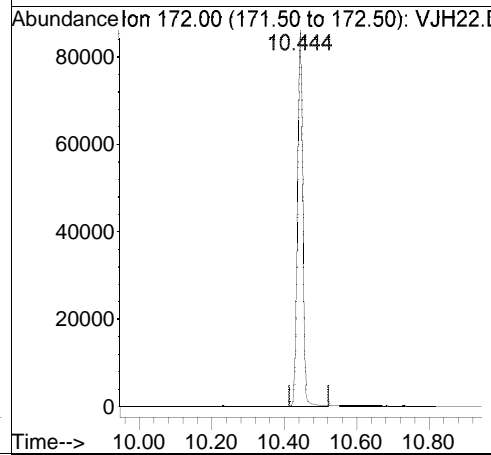


Raw

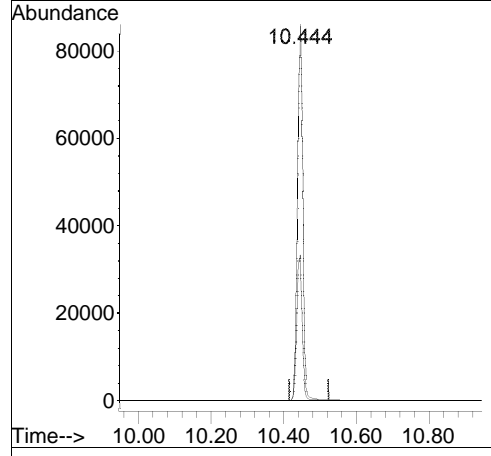
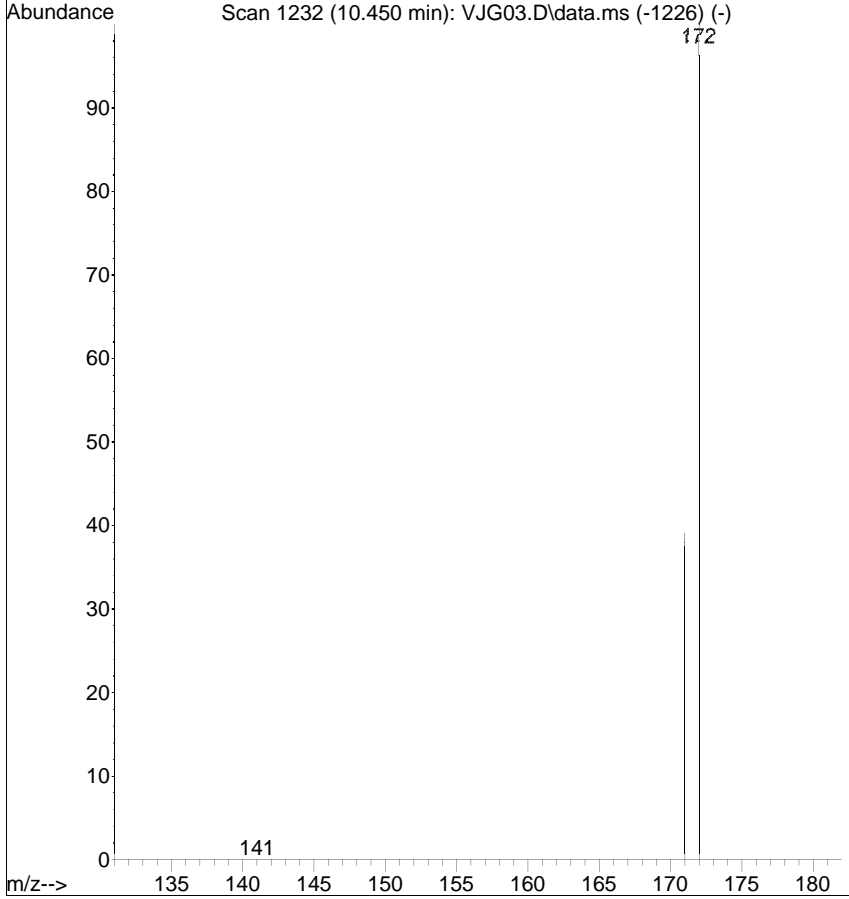


#9
 2-Fluorobiphenyl
 Concen: 0.7264 ug/mL
 RT: 10.444 min Scan# 1230
 Delta R.T. -0.006 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

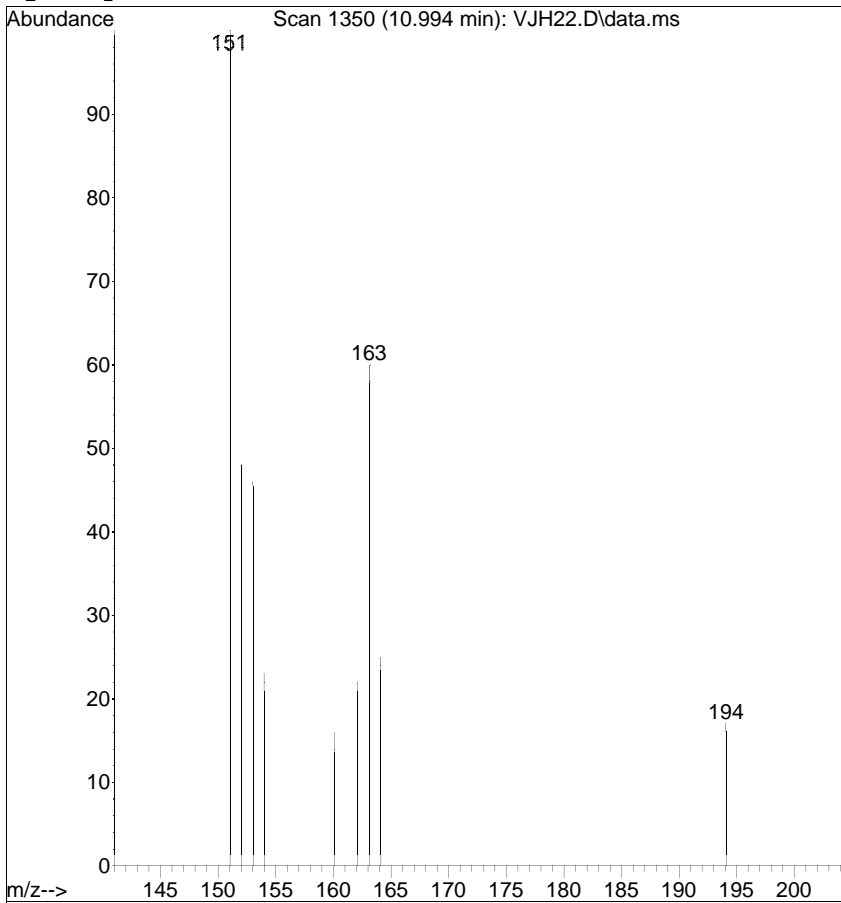
Tgt Ion	Resp	Lower	Upper
172	81484	100	100
171	38.9	14.4	54.4



Ref

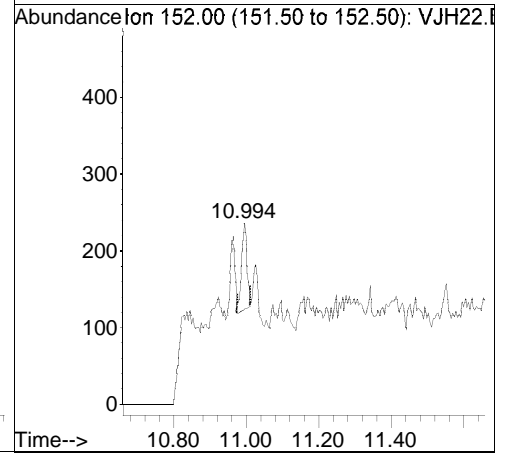


Raw

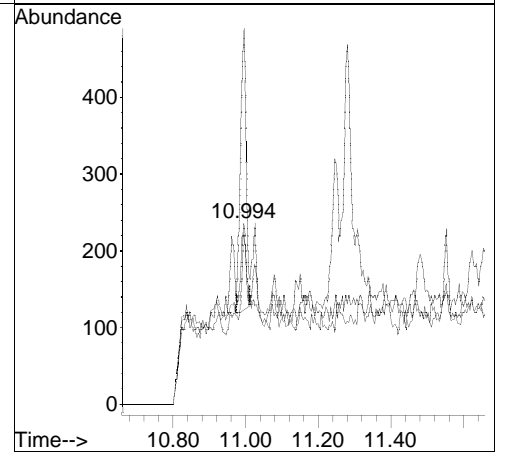
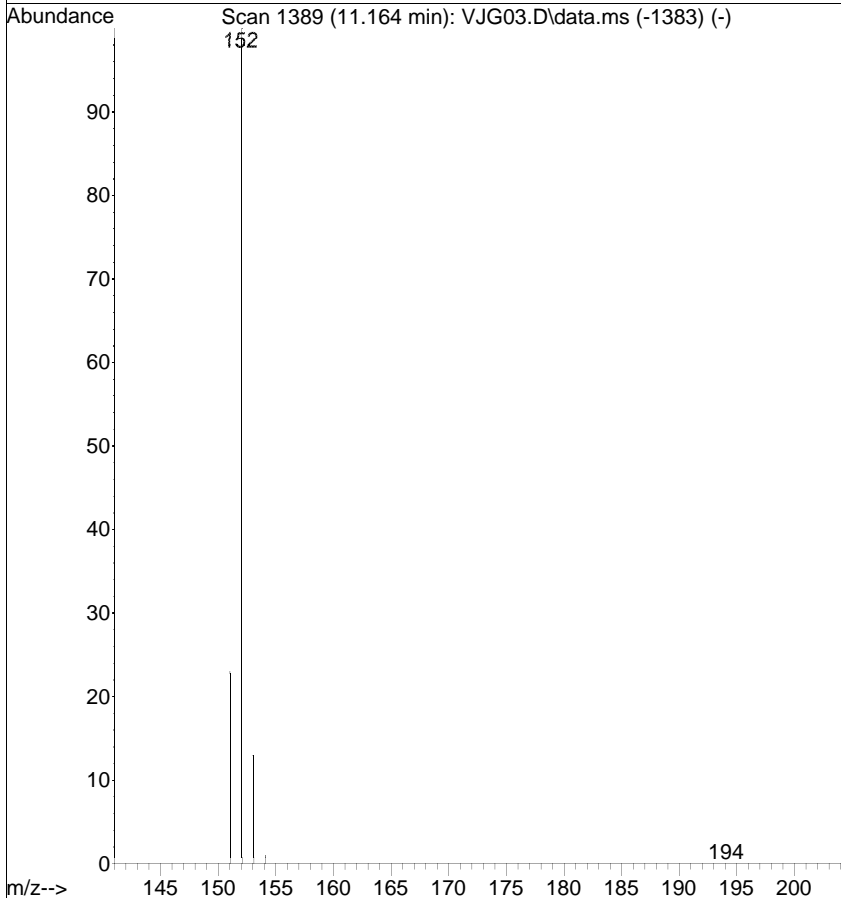


#10
 Acenaphthylene
 Concen: 0.0009 ug/mL
 RT: 10.994 min Scan# 1350
 Delta R.T. -0.170 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

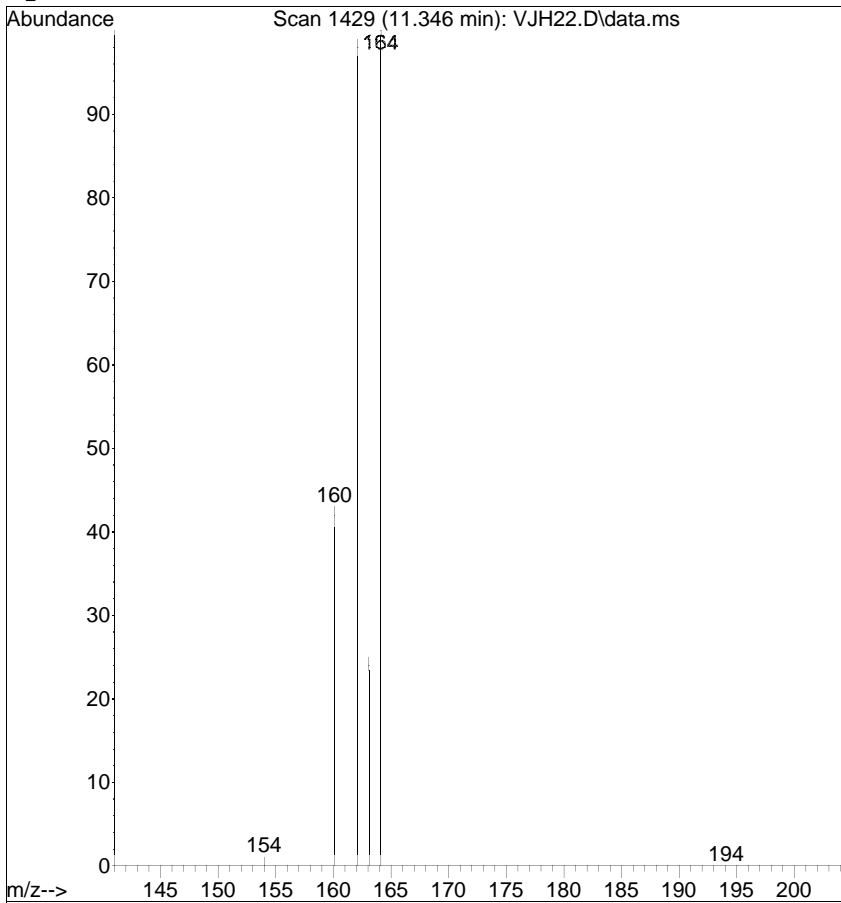
Tgt Ion	Resp	Lower	Upper
152	115		
151	100		
152	207.2	1.0	41.0#
153	94.9	0.0	33.1#



Ref

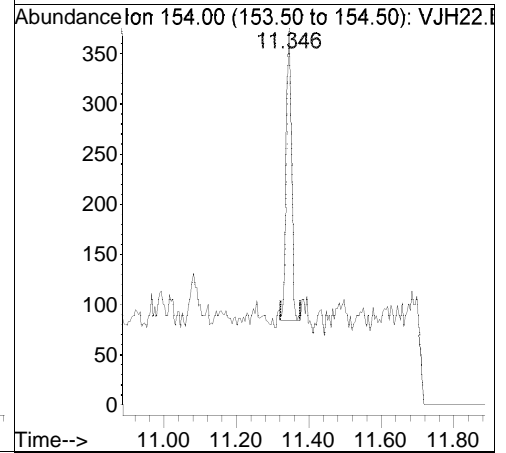


Raw

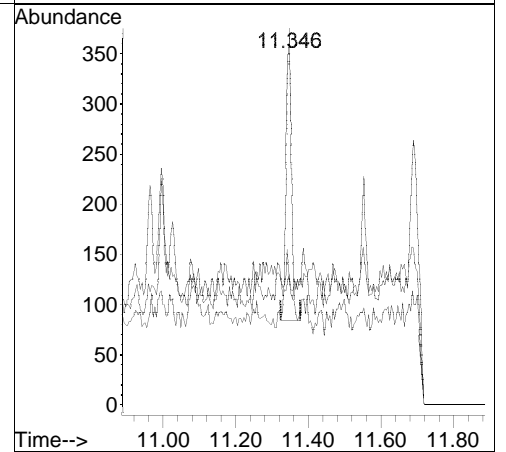
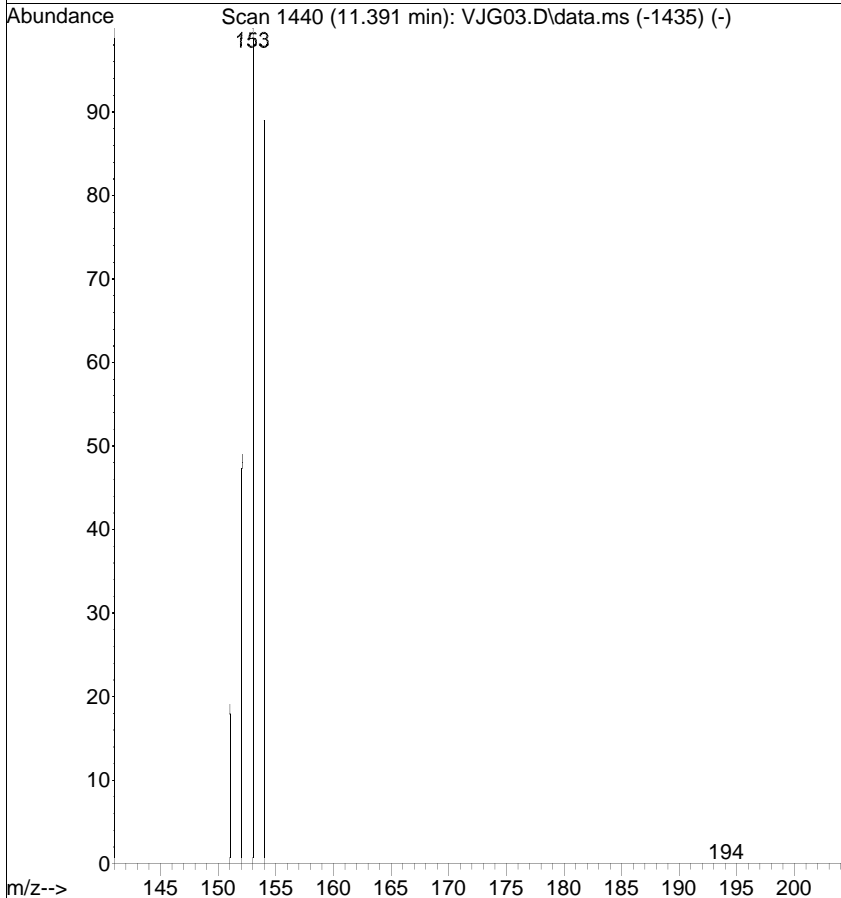


#11
 Acenaphthene
 Concen: 0.0038 ug/mL
 RT: 11.346 min Scan# 1429
 Delta R.T. -0.045 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

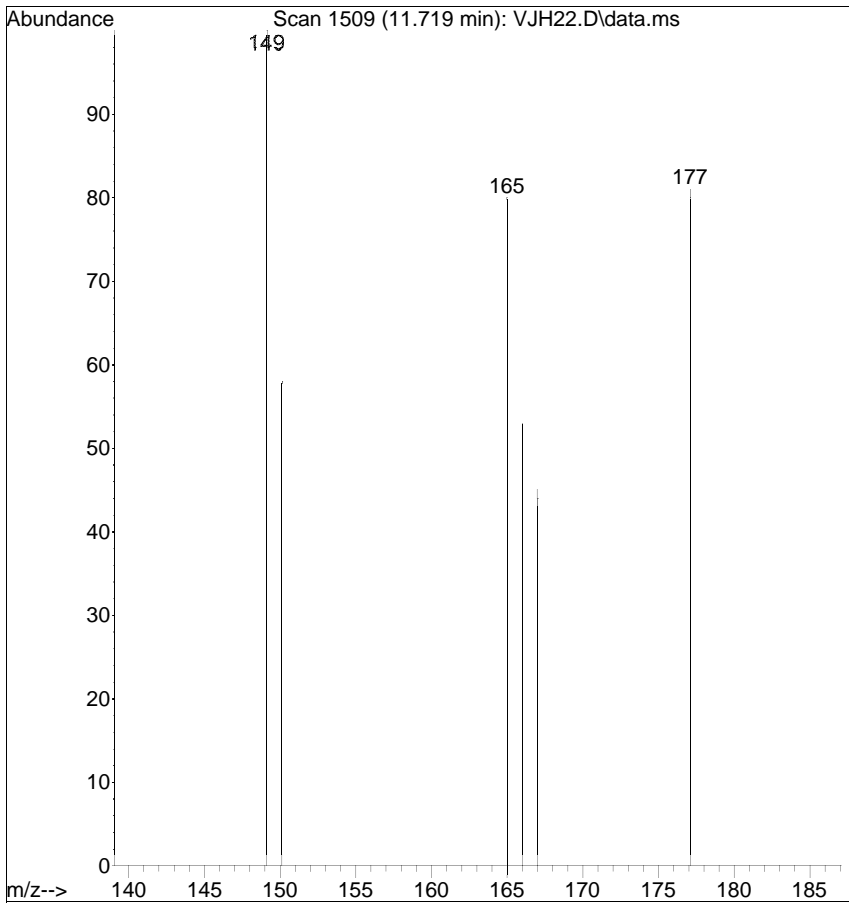
Tgt Ion	Resp	Lower	Upper
154	100		
152	32.3	35.4	75.4#
153	34.7	96.8	136.8#



Ref

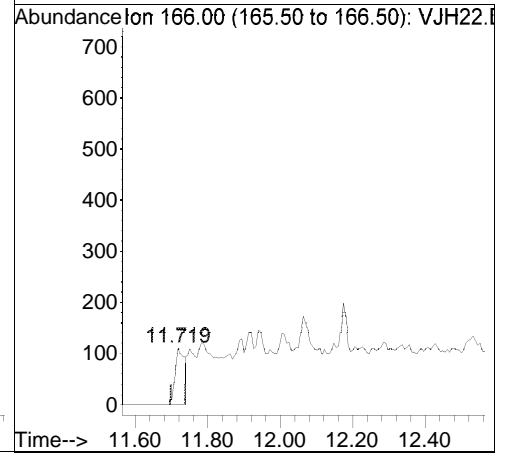


Raw

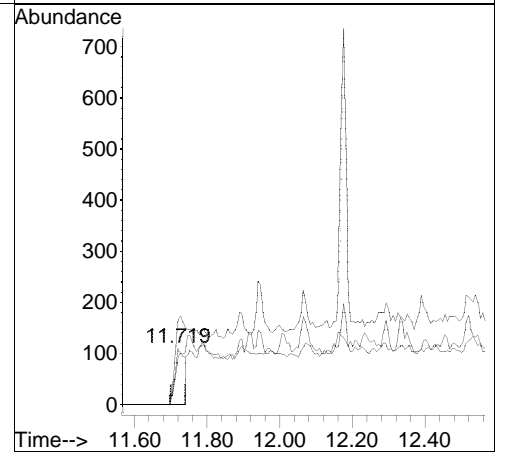
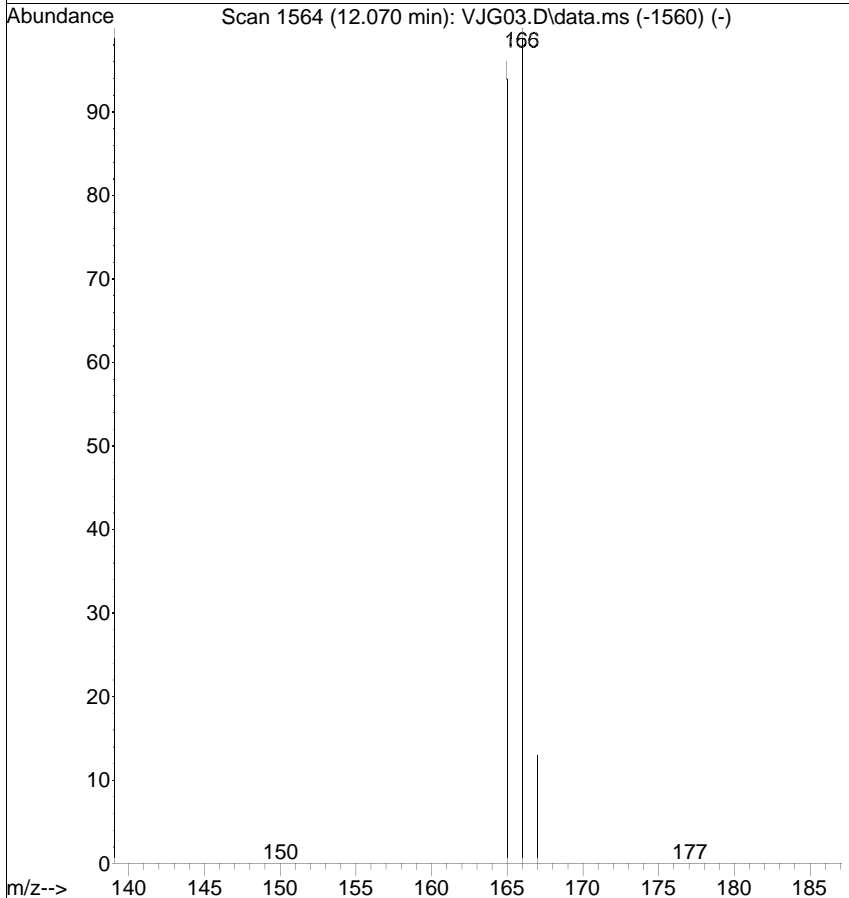


#12
 Fluorene
 Concen: 0.0026 ug/mL
 RT: 11.719 min Scan# 1509
 Delta R.T. -0.351 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

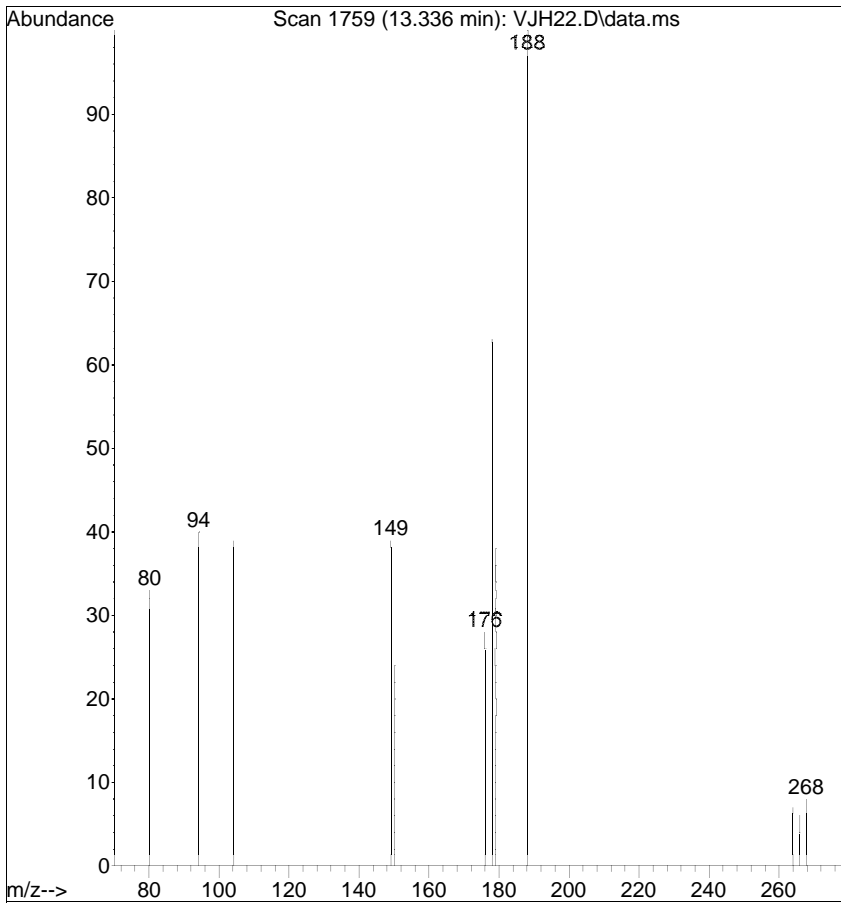
Tgt Ion	Resp	Lower	Upper
166	100		
165	150.5	74.9	114.9#
167	84.7	0.0	33.9#



Ref

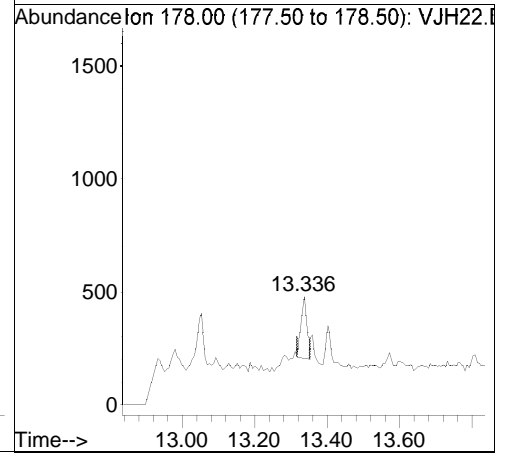


Raw

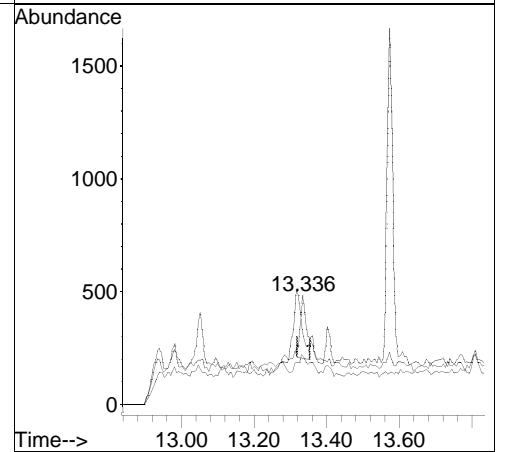
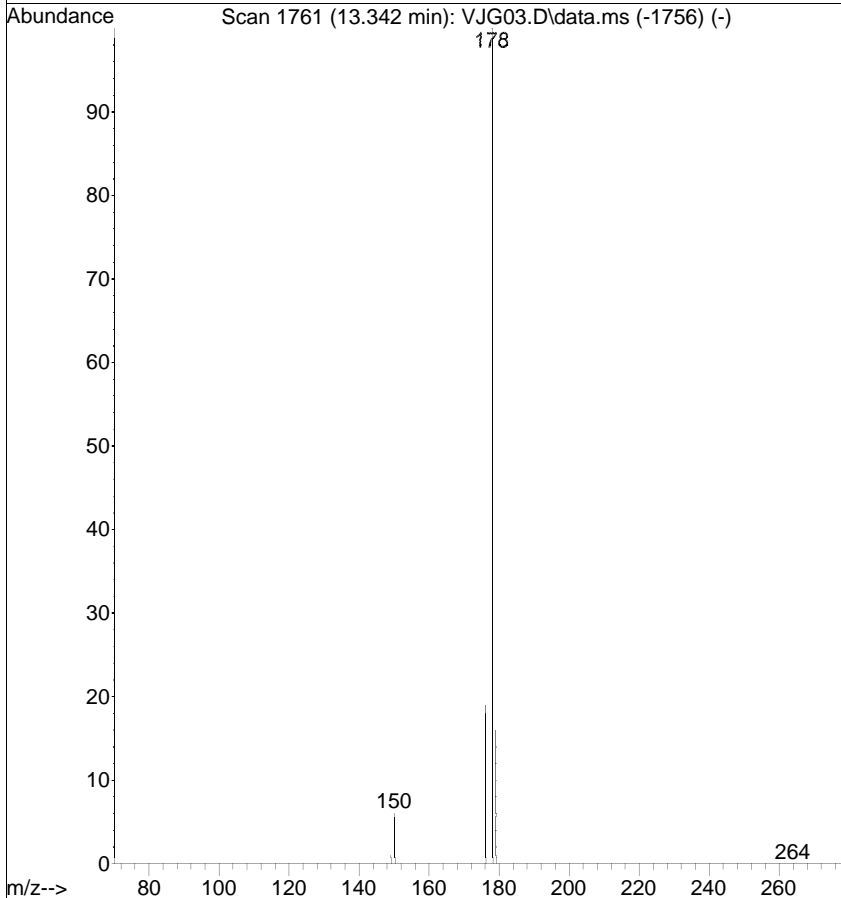


#15
 Phenanthrene
 Concen: 0.0026 ug/mL
 RT: 13.336 min Scan# 1759
 Delta R.T. -0.006 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

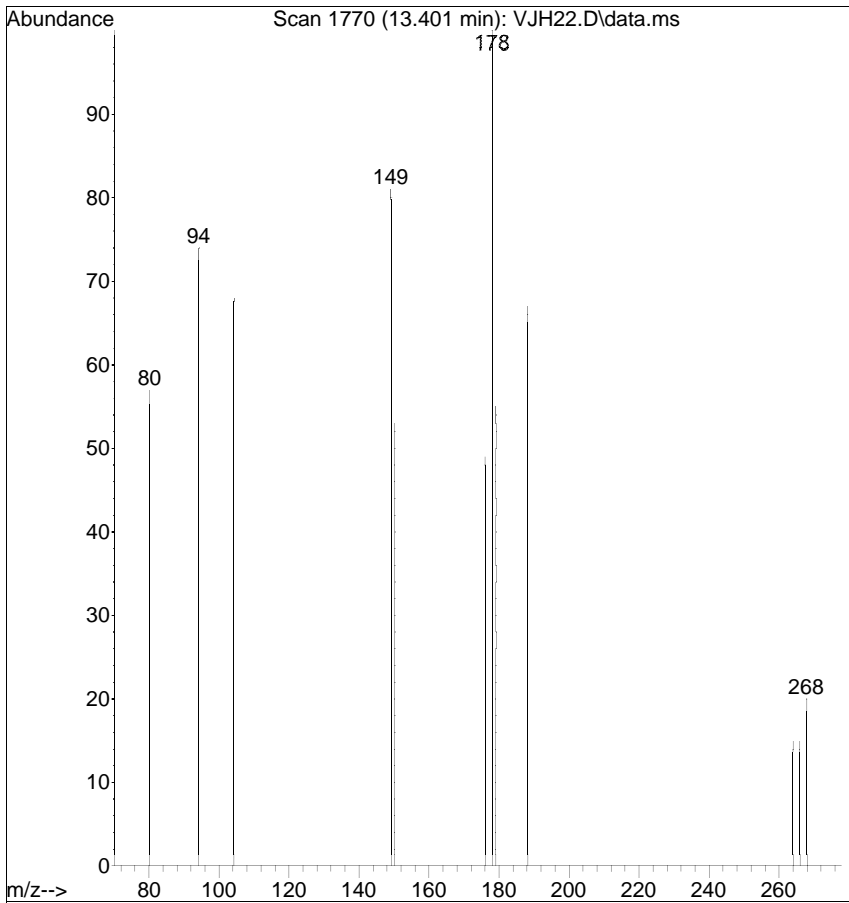
Tgt Ion	Resp	Lower	Upper
178	330		
179	60.2	0.0	35.0#
176	44.0	0.0	38.9#



Ref

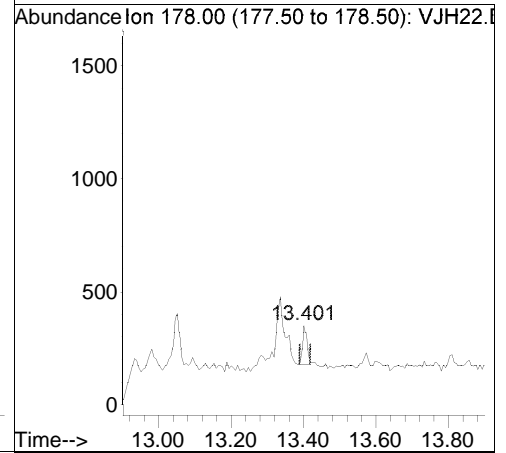


Raw

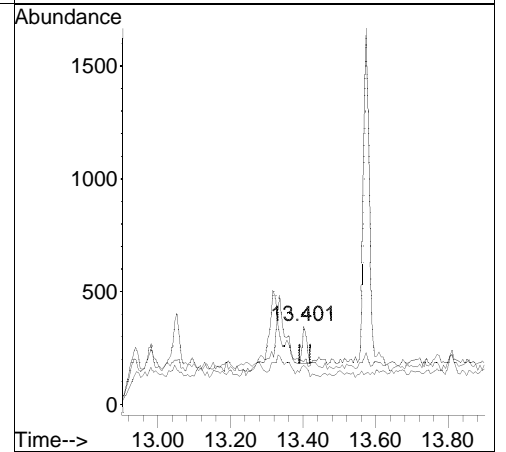
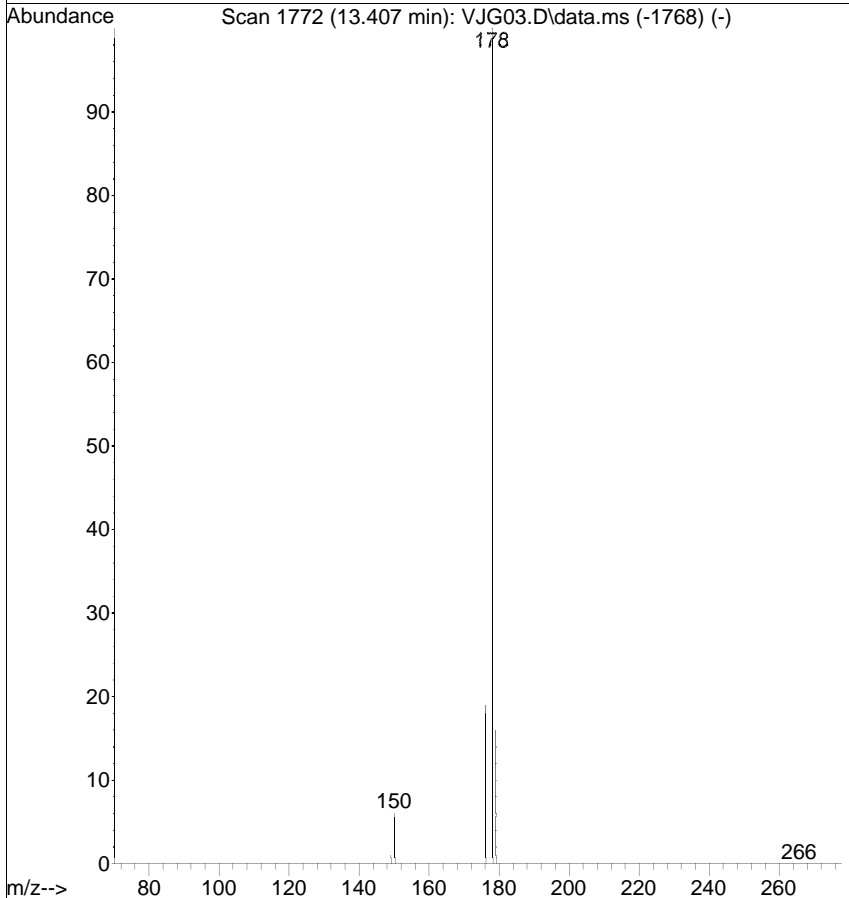


#16
 Anthracene
 Concen: 0.0012 ug/mL
 RT: 13.401 min Scan# 1770
 Delta R.T. -0.006 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

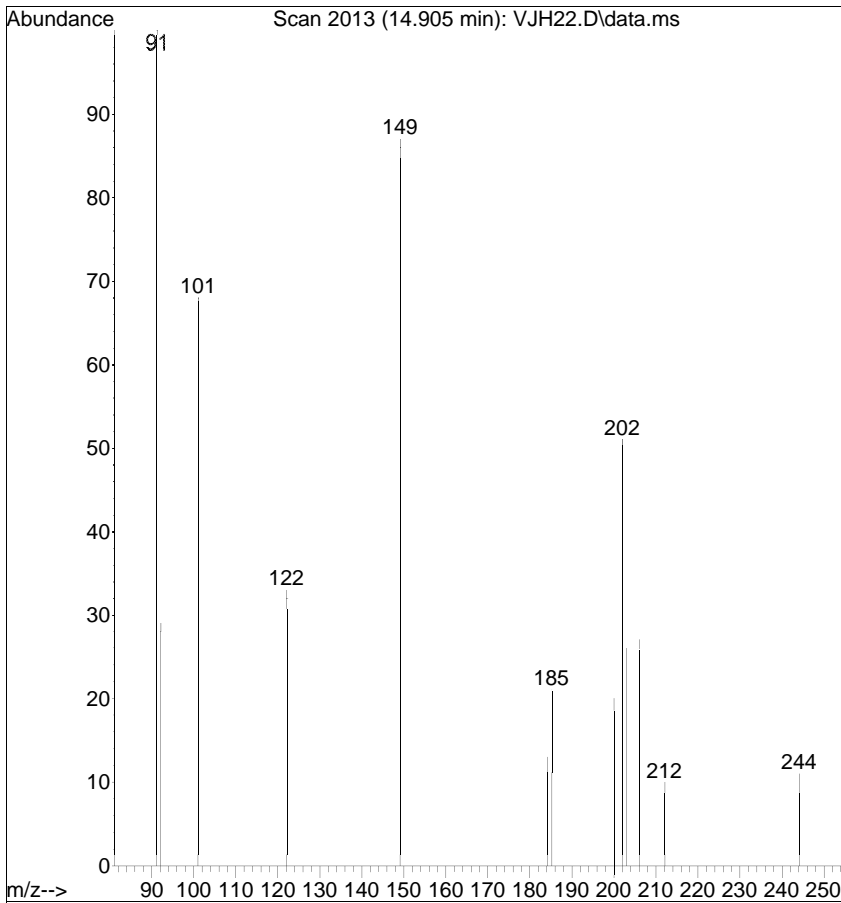
Tgt Ion	Ratio	Lower	Upper
178	100		
179	54.6	0.0	34.4#
176	49.1	0.0	39.5#



Ref

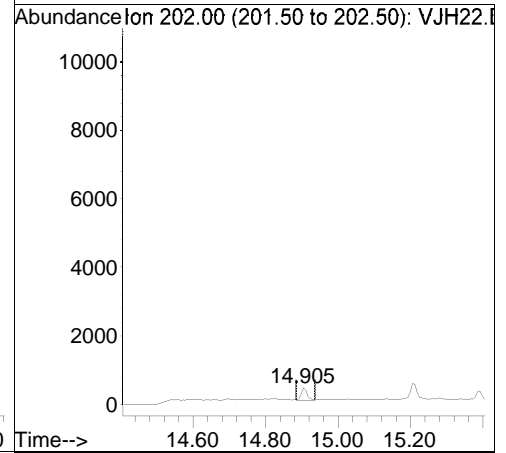


Raw

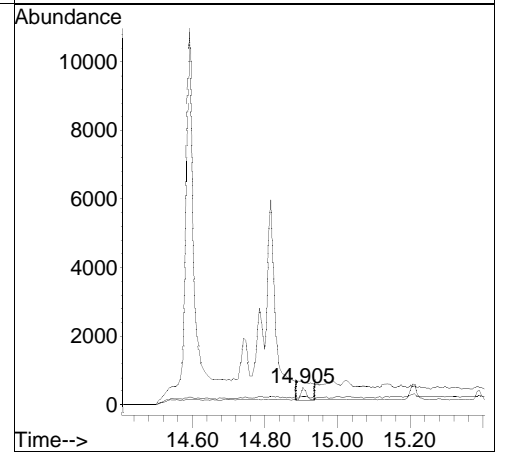
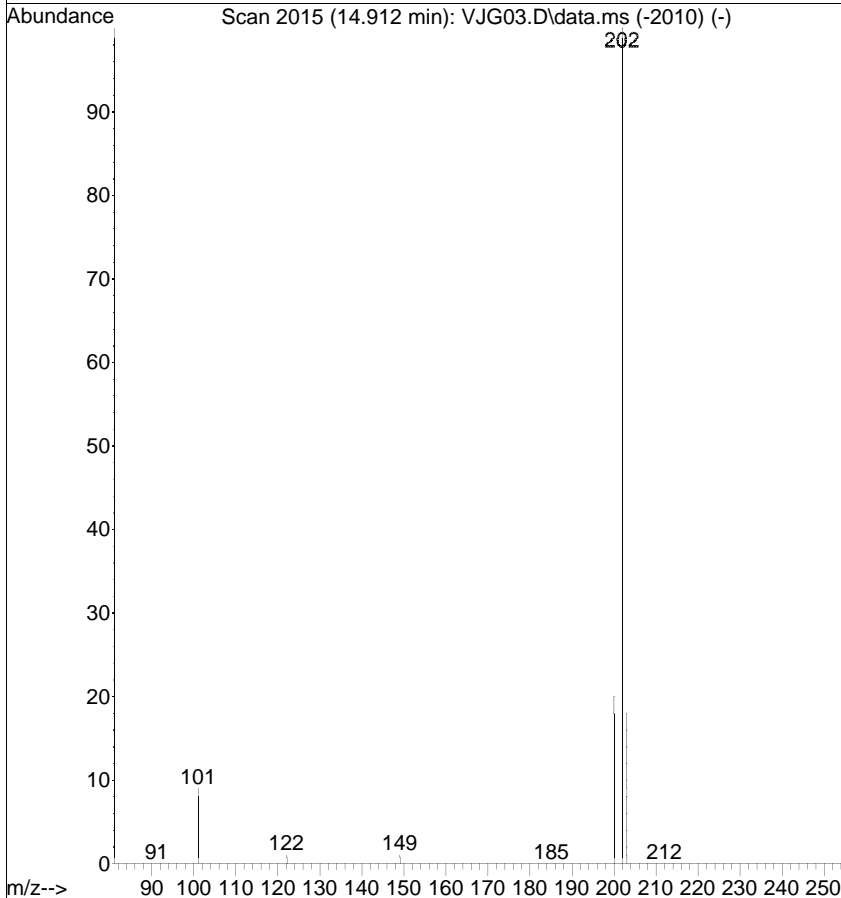


#17
 Fluoranthene
 Concen: 0.0026 ug/mL
 RT: 14.905 min Scan# 2013
 Delta R.T. -0.008 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

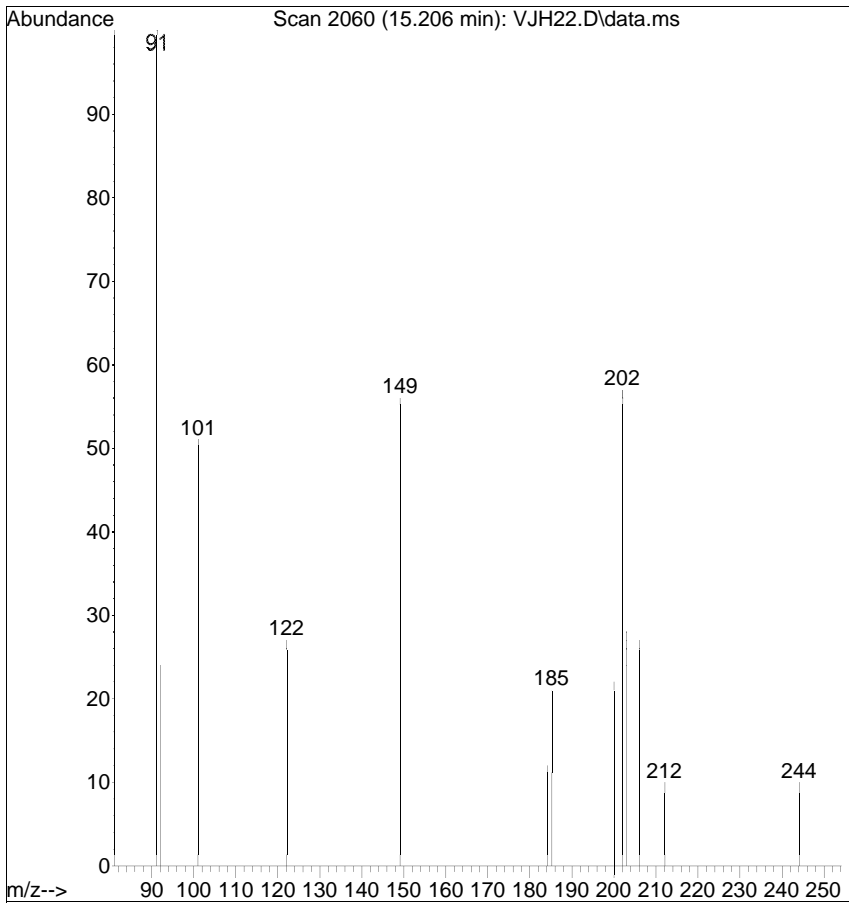
Tgt Ion	Resp	Lower	Upper
202	397		
202	100		
101	132.3	0.0	21.1#
203	50.6	0.0	37.0#



Ref

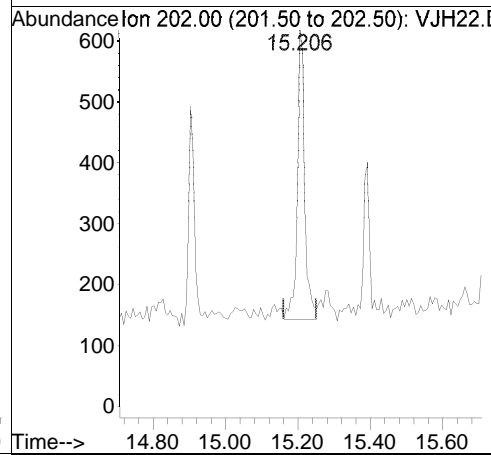


Raw

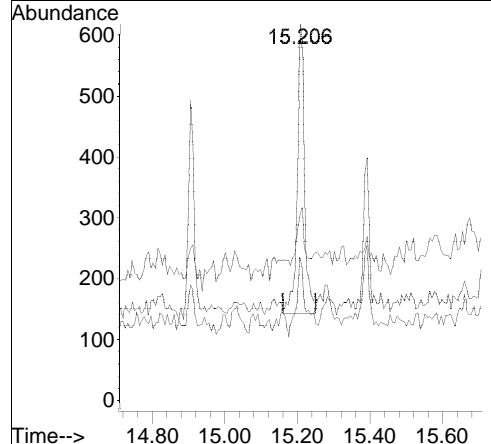
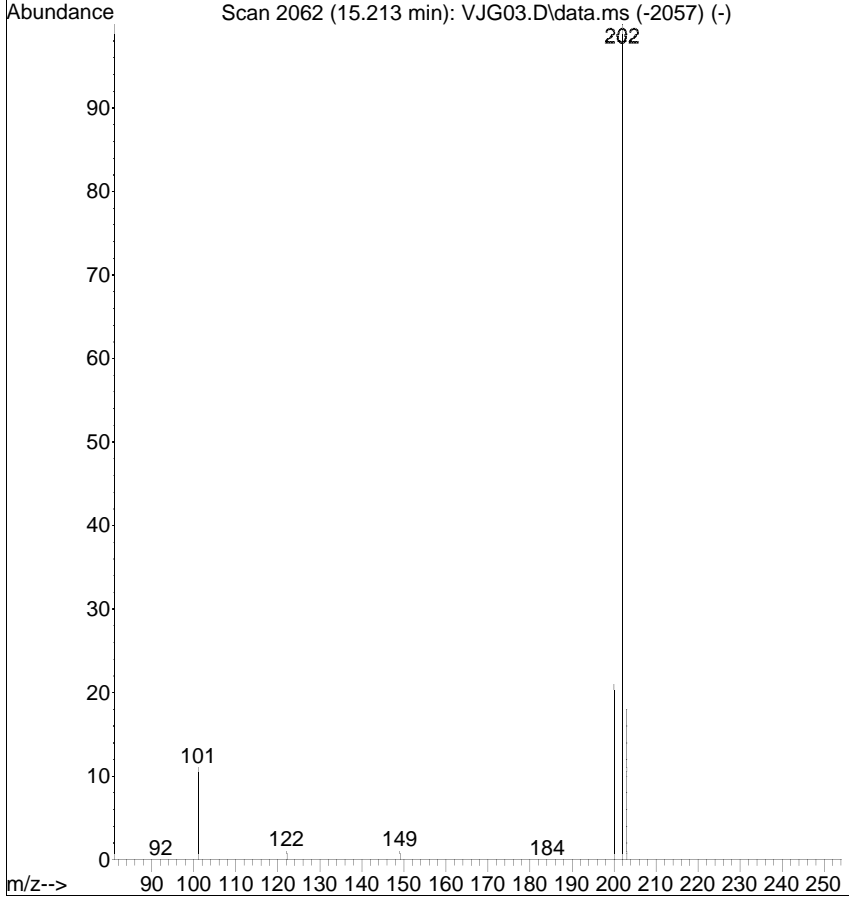


#19
 Pyrene
 Concen: 0.0065 ug/mL
 RT: 15.206 min Scan# 2060
 Delta R.T. -0.008 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

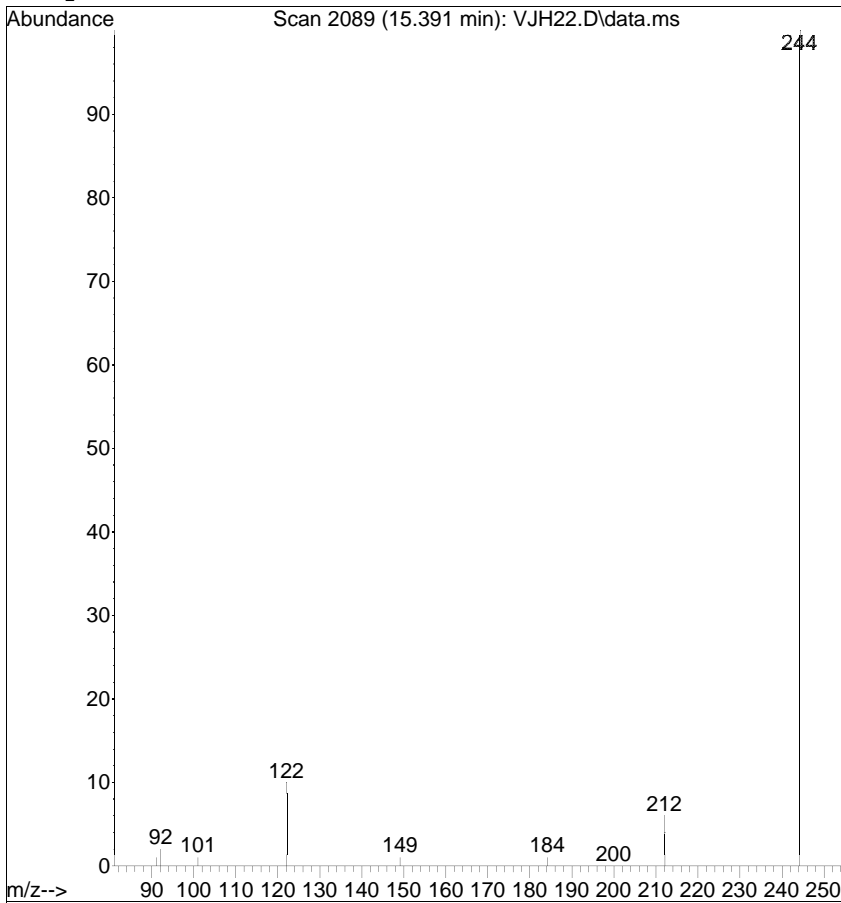
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	657		
200	38.2		1.1	41.1
203	49.3		0.0	37.7#



Ref

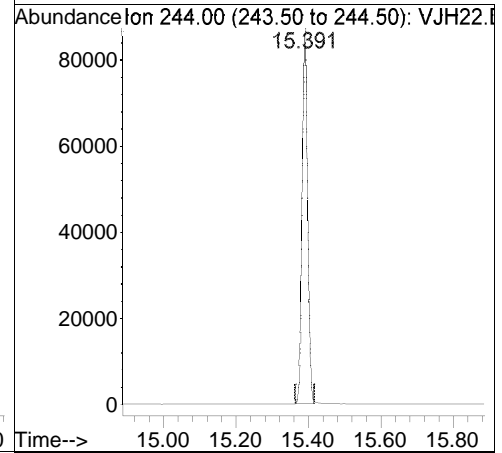


Raw

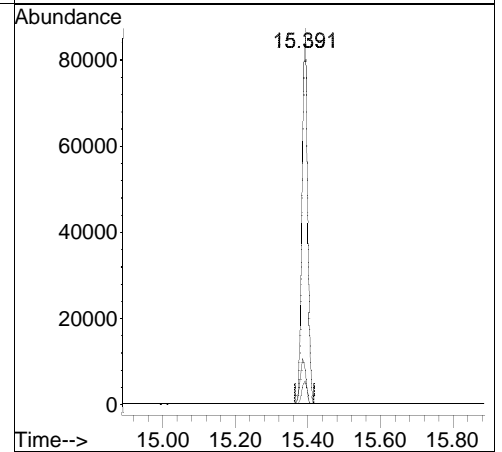
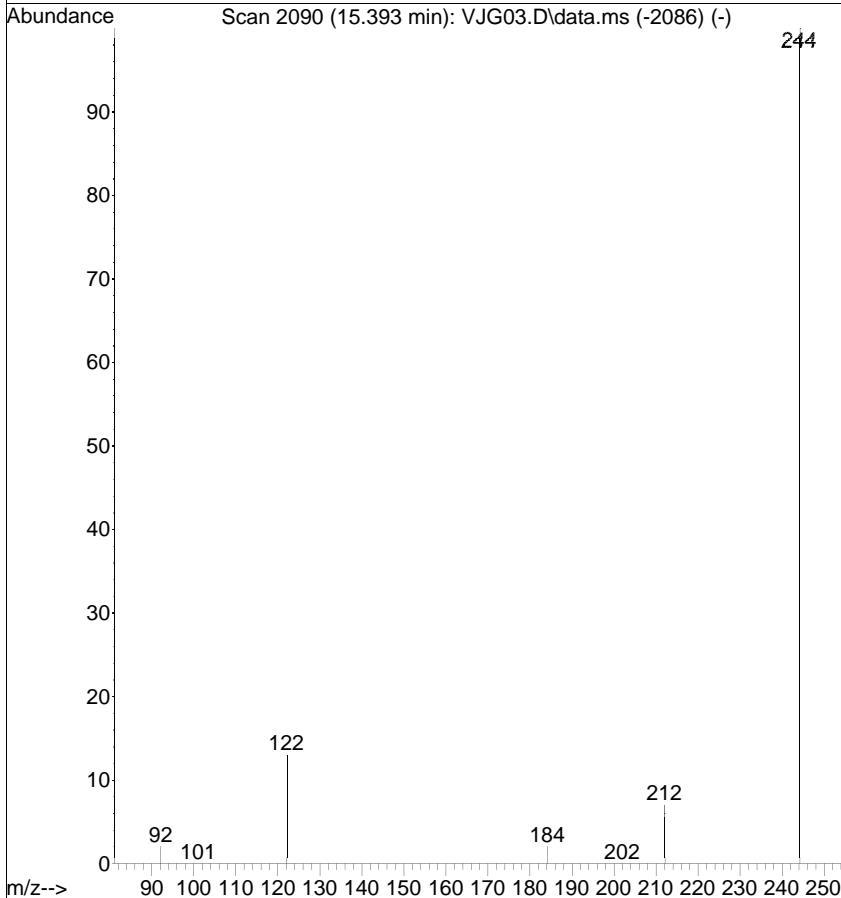


#20
 Terphenyl-d14
 Concen: 1.0803 ug/mL
 RT: 15.391 min Scan# 2089
 Delta R.T. -0.001 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

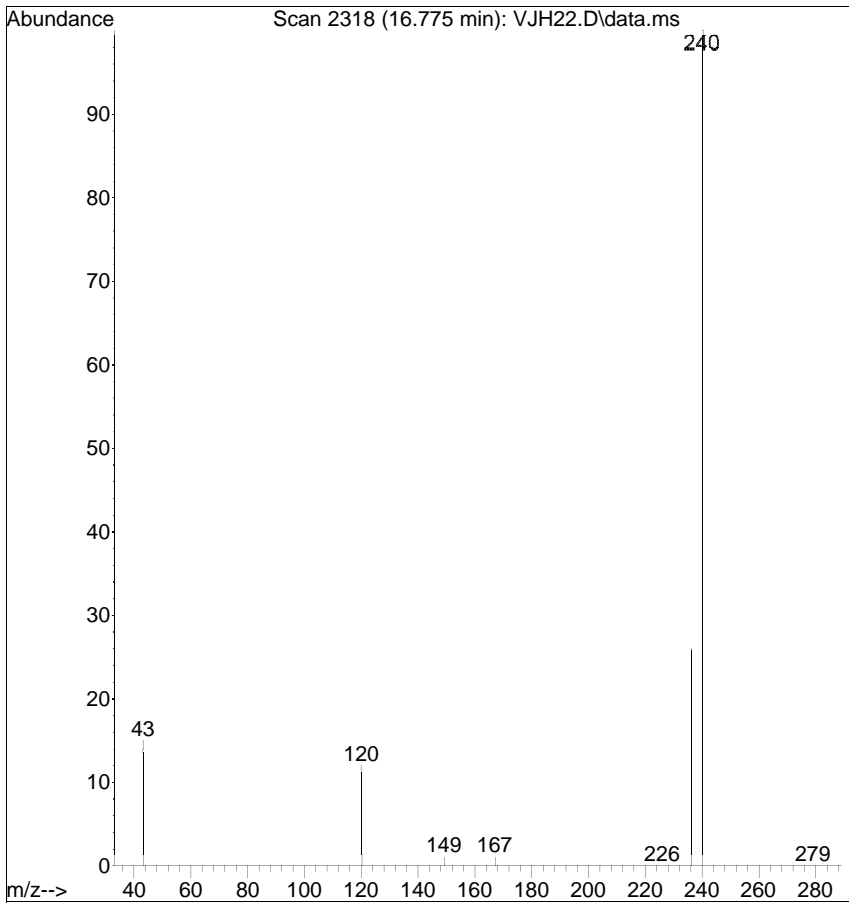
Tgt Ion	Resp	Lower	Upper
244	100		
122	9.6	0.0	25.0
212	6.4	0.0	31.4



Ref

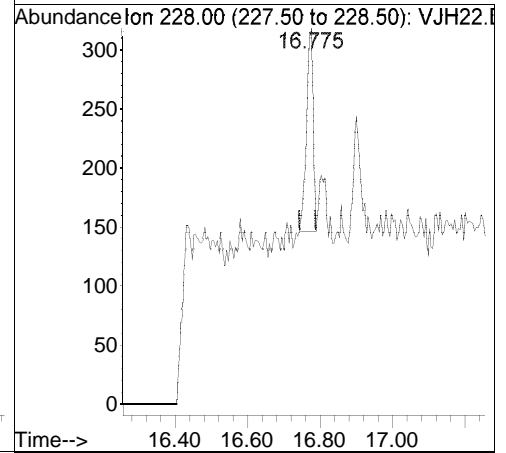


Raw

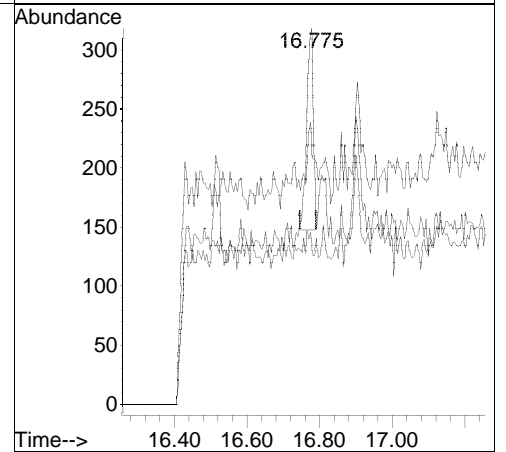
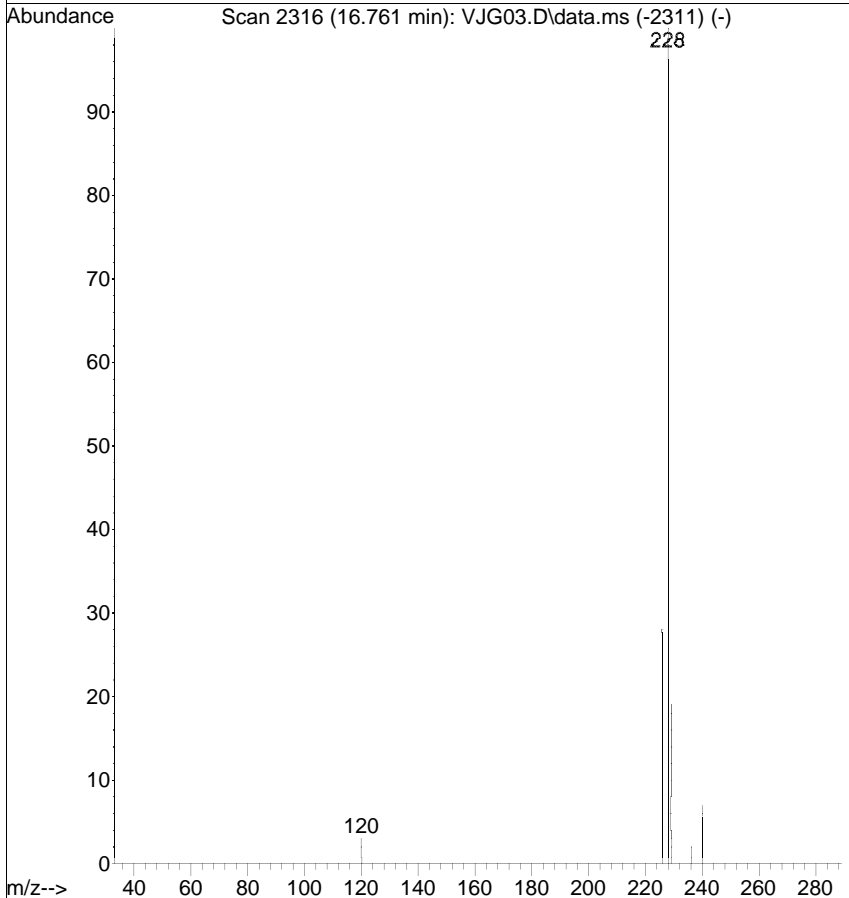


#21
 Benzo(a)anthracene
 Concen: 0.0023 ug/mL
 RT: 16.775 min Scan# 2318
 Delta R.T. 0.014 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

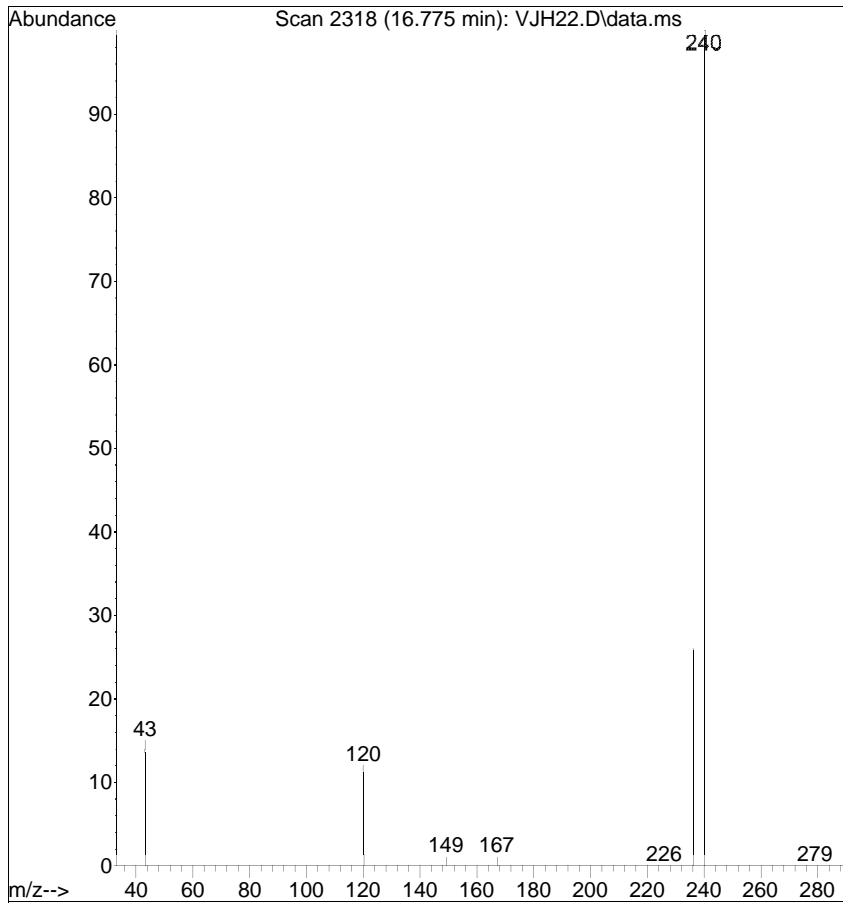
Tgt Ion	Ratio	Lower	Upper
228	100		
229	75.2	0.1	40.1#
226	45.6	9.3	49.3



Ref

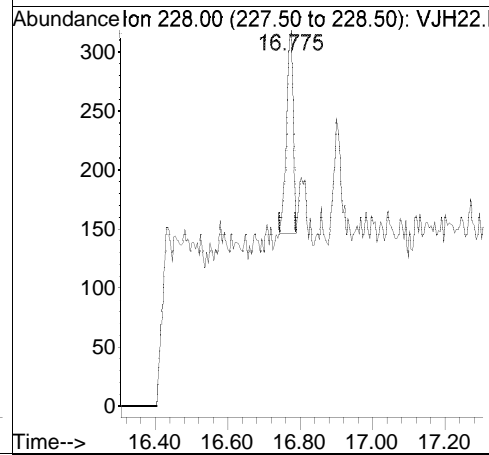


Raw

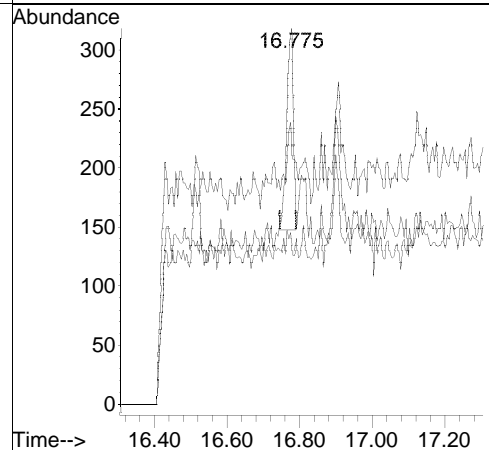
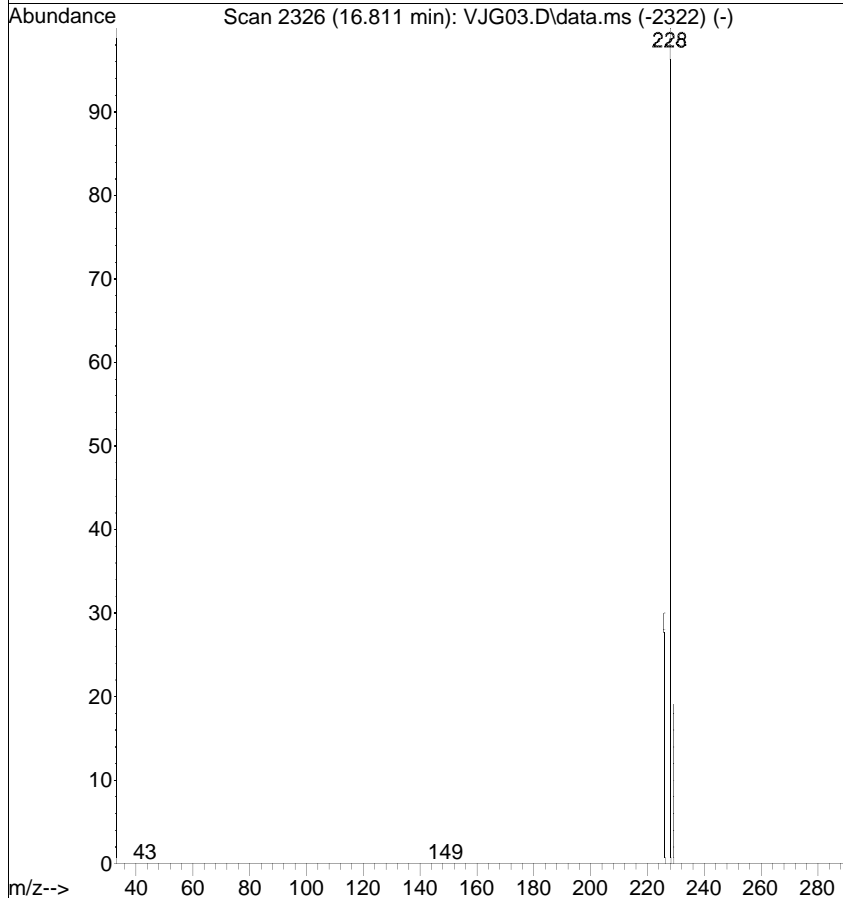


#22
 Chrysene
 Concen: 0.0024 ug/mL
 RT: 16.775 min Scan# 2318
 Delta R.T. -0.035 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

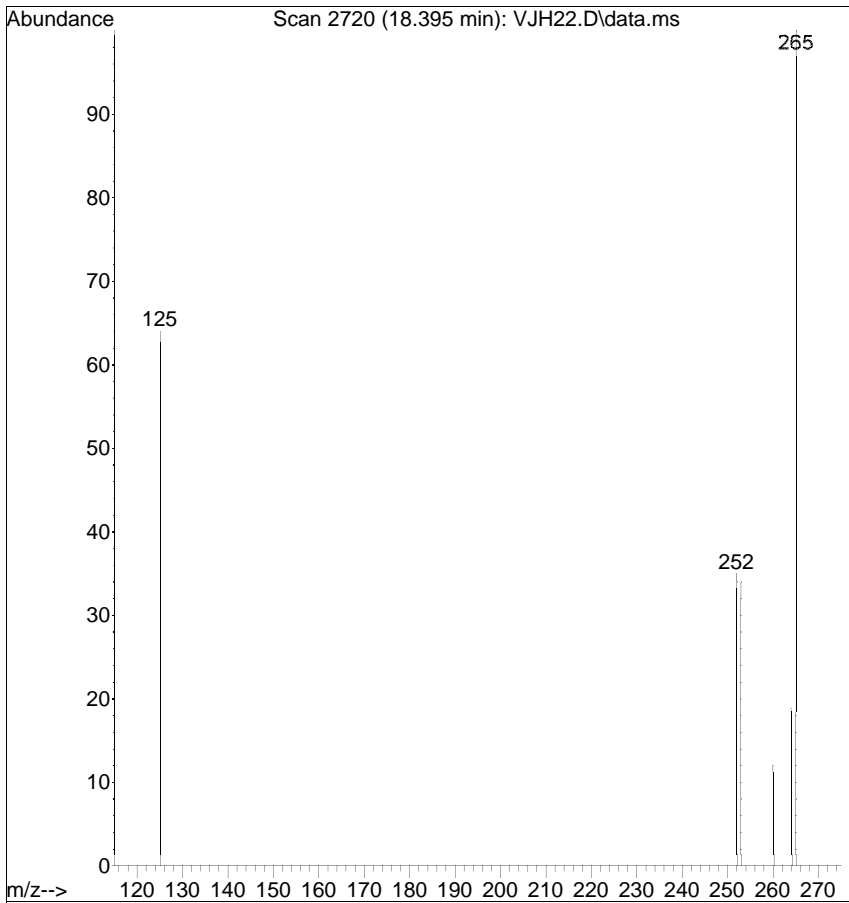
Tgt Ion	Ratio	Lower	Upper
228	100		
226	45.6	13.4	53.4
229	75.2	0.8	40.8#



Ref

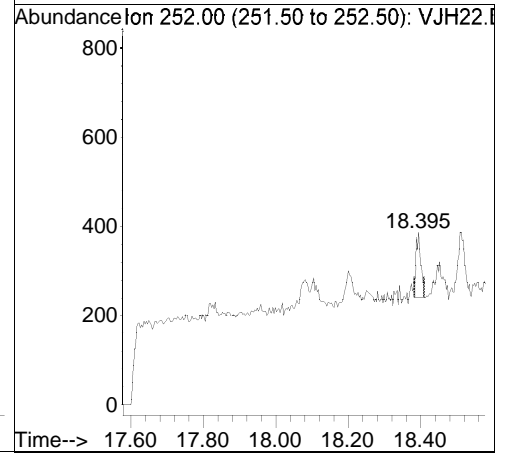


Raw

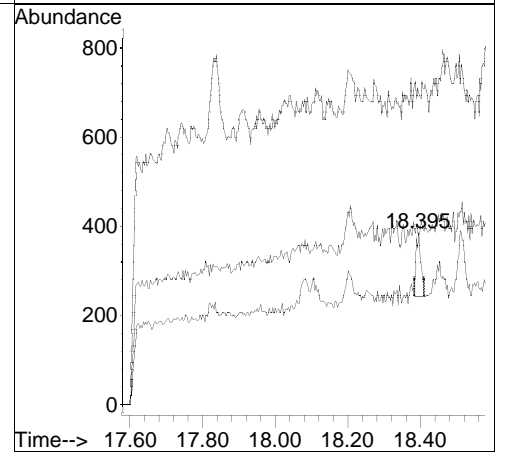
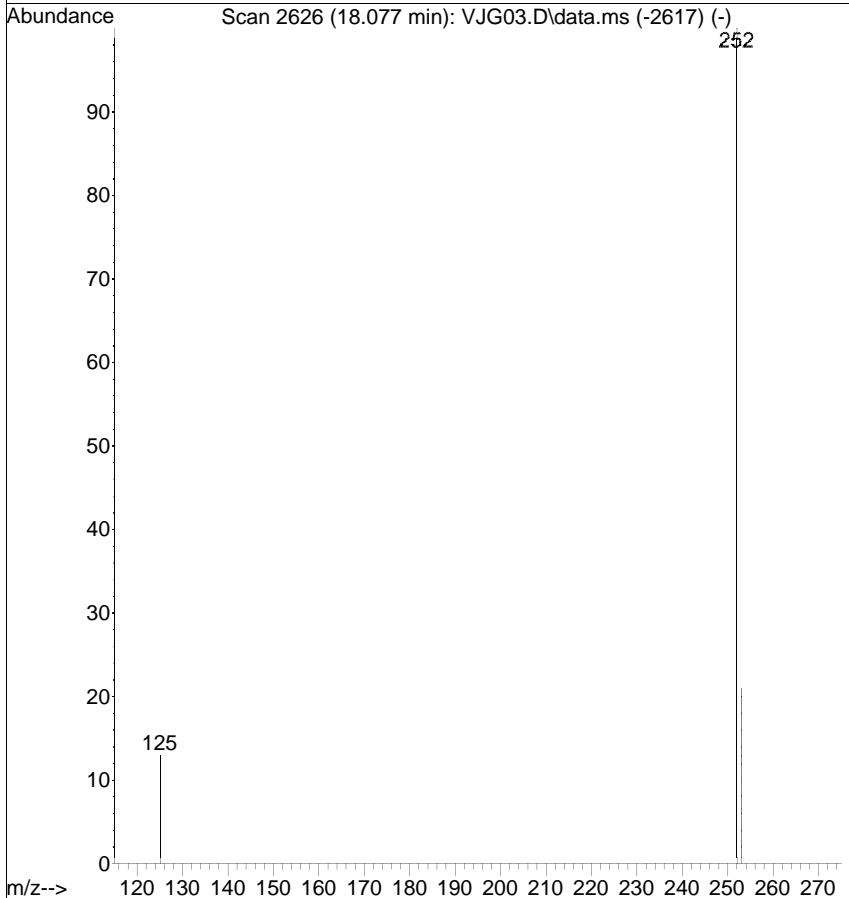


#24
 Benzo(b)fluoranthene
 Concen: 0.0021 ug/mL
 RT: 18.395 min Scan# 2720
 Delta R.T. 0.318 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

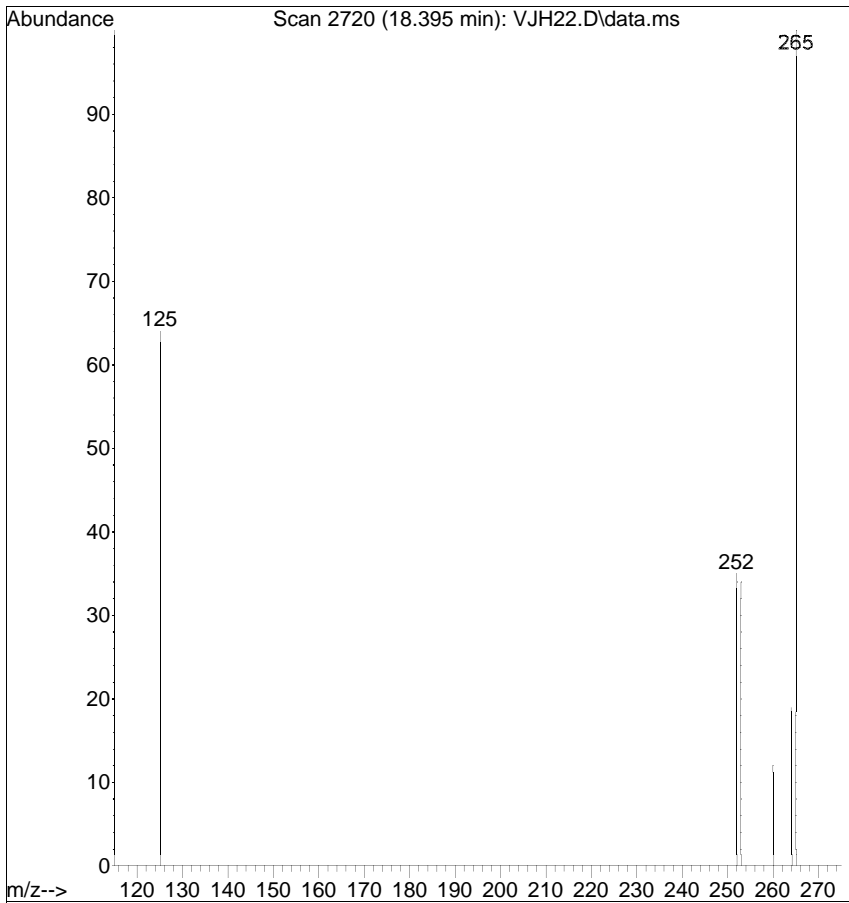
Tgt Ion	Resp	Lower	Upper
252	100		
253	97.7	1.0	41.0#
125	180.8	0.0	20.9#



Ref

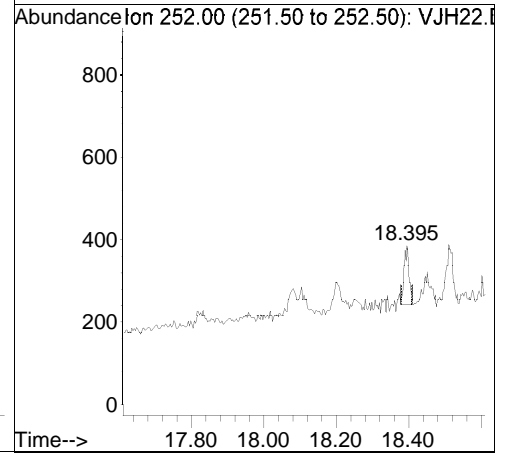


Raw

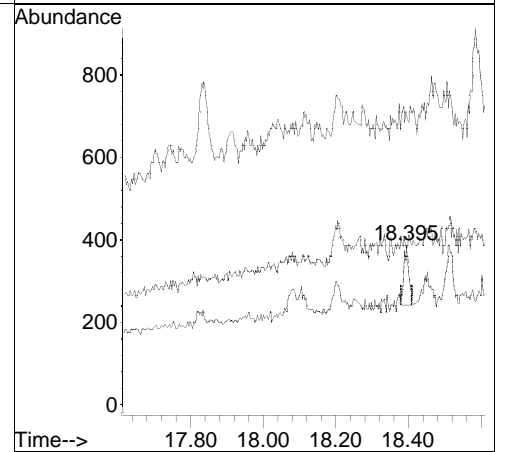
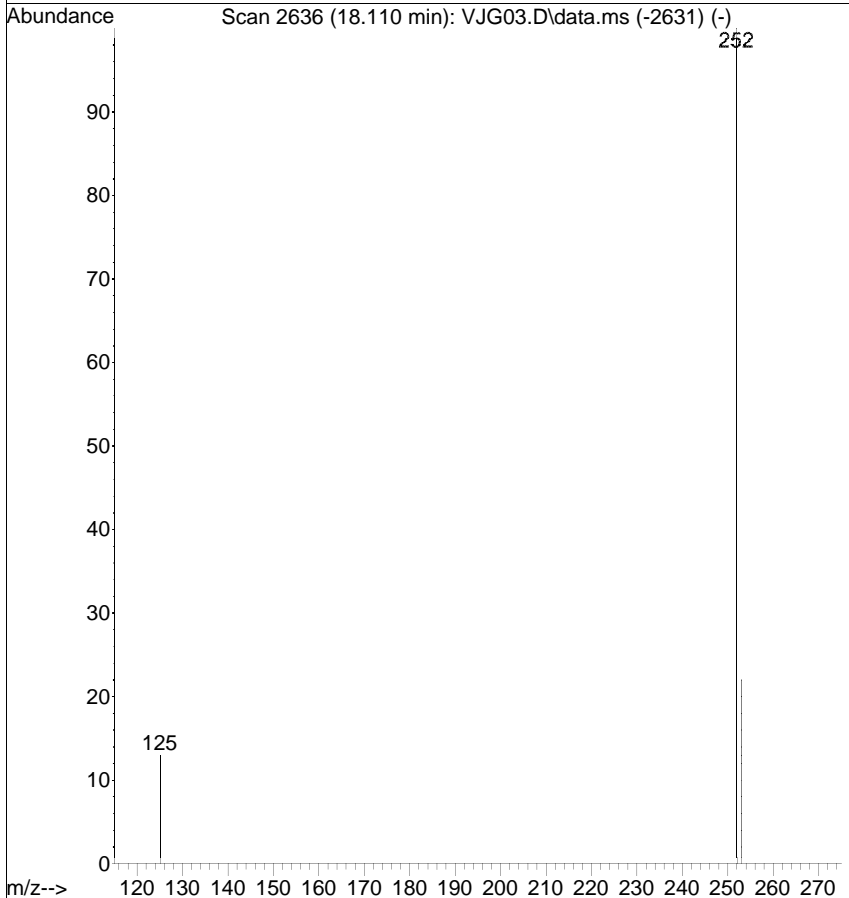


#25
 Benzo(k)fluoranthene
 Concen: 0.0022 ug/mL
 RT: 18.395 min Scan# 2720
 Delta R.T. 0.285 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

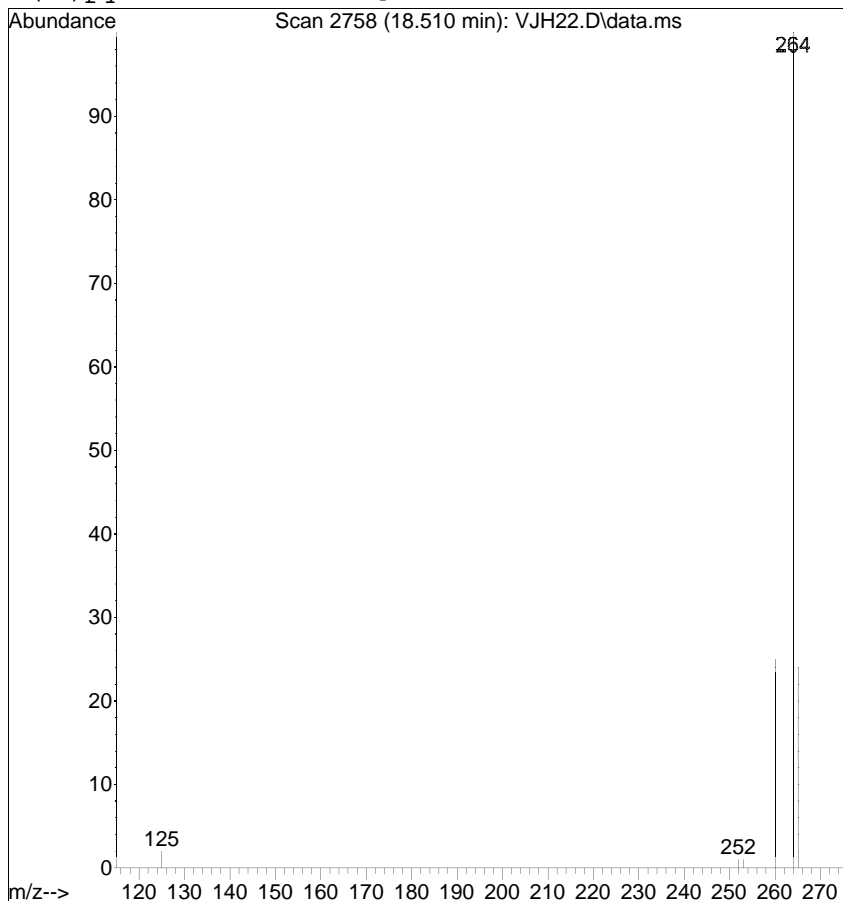
Tgt Ion	Resp	Lower	Upper
252	100		
253	97.7	1.1	41.1#
125	180.8	0.0	21.1#



Ref

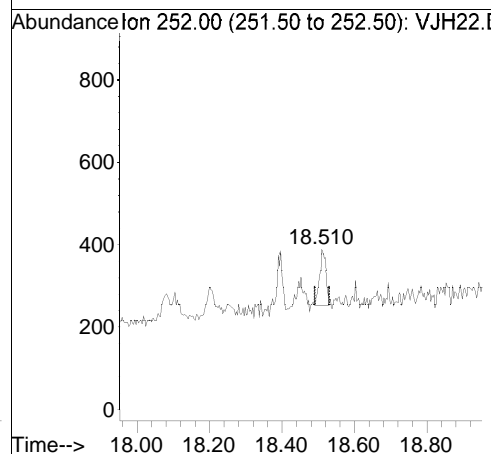


Raw

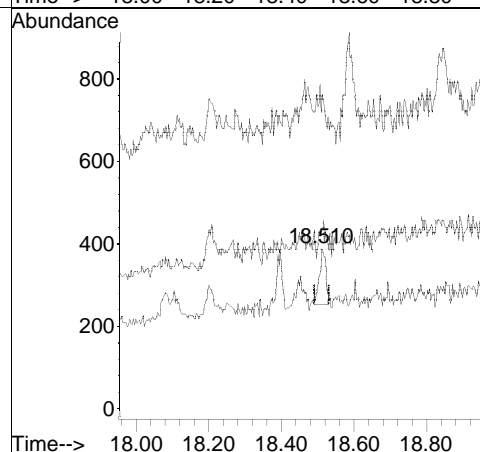
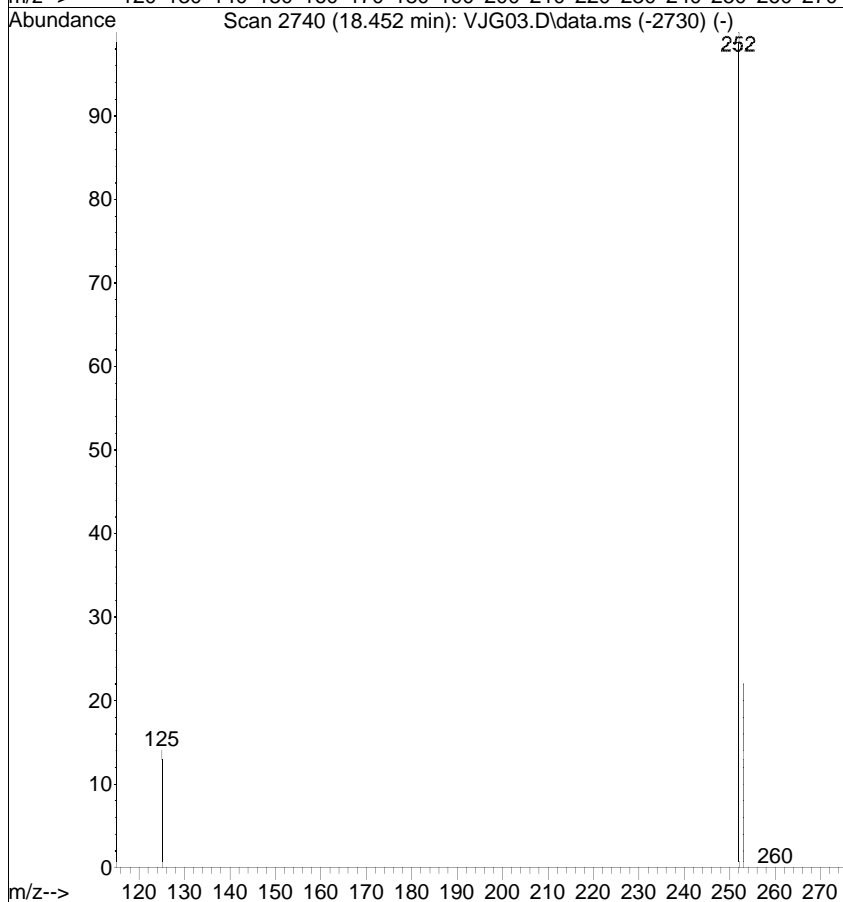


#26
 Benzo(a)pyrene
 Concen: 0.0031 ug/mL
 RT: 18.510 min Scan# 2758
 Delta R.T. 0.058 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

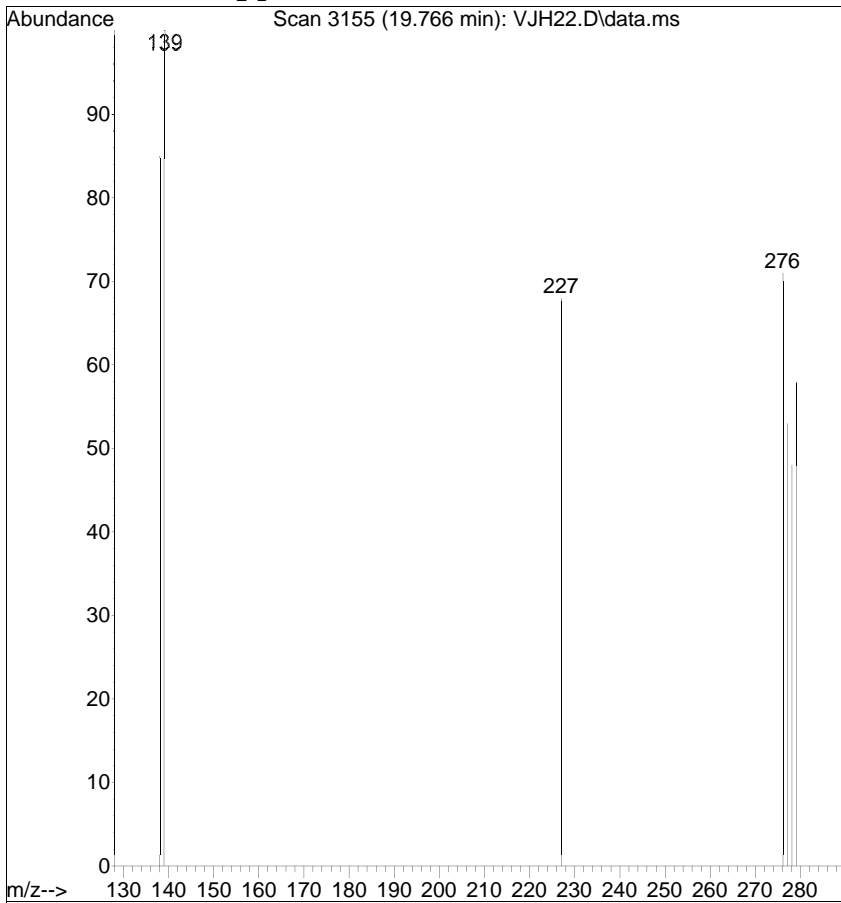
Tgt Ion	Resp	Lower	Upper
252	100		
253	111.6	3.4	43.4#
125	184.6	0.0	20.9#



Ref



Raw

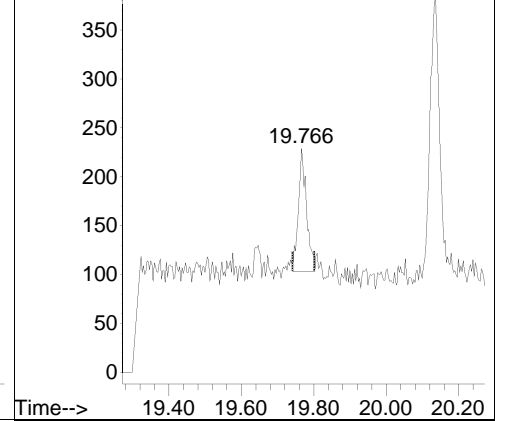


#27

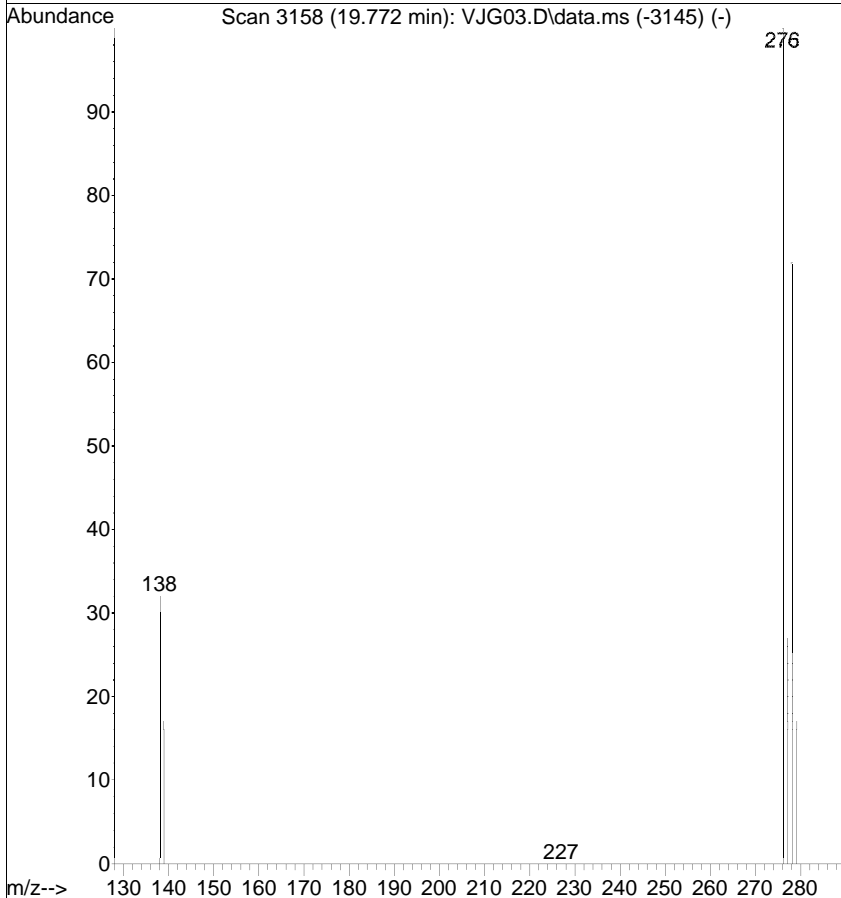
Indeno(1,2,3-cd)pyrene
 Concen: 0.0038 ug/mL
 RT: 19.766 min Scan# 3155
 Delta R.T. -0.006 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	119.2	0.0	23.1#
227	95.6	0.0	21.0#

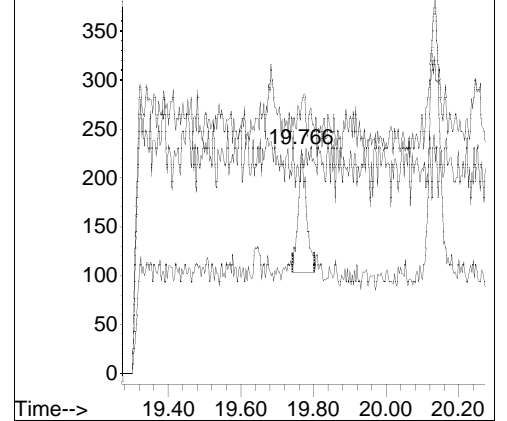
Abundance Ion 276.00 (275.50 to 276.50): VJH22.D



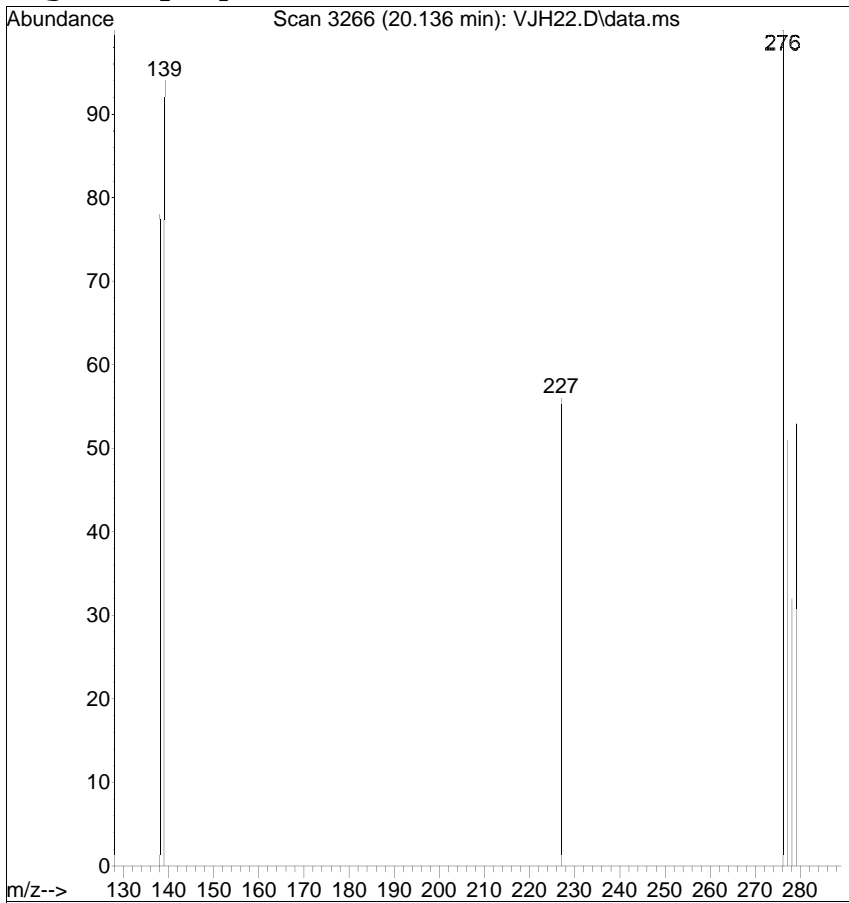
Ref



Abundance

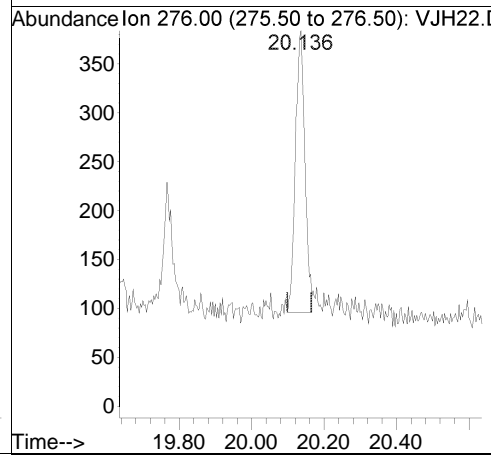


Raw

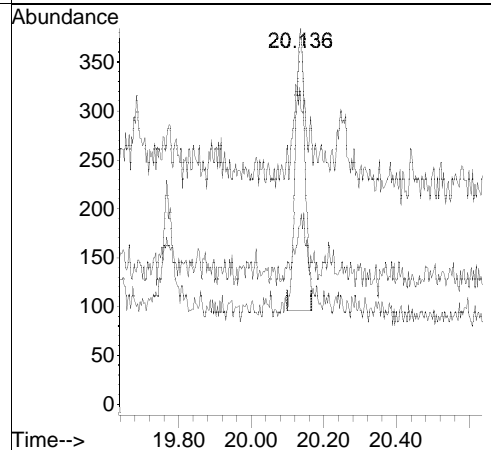
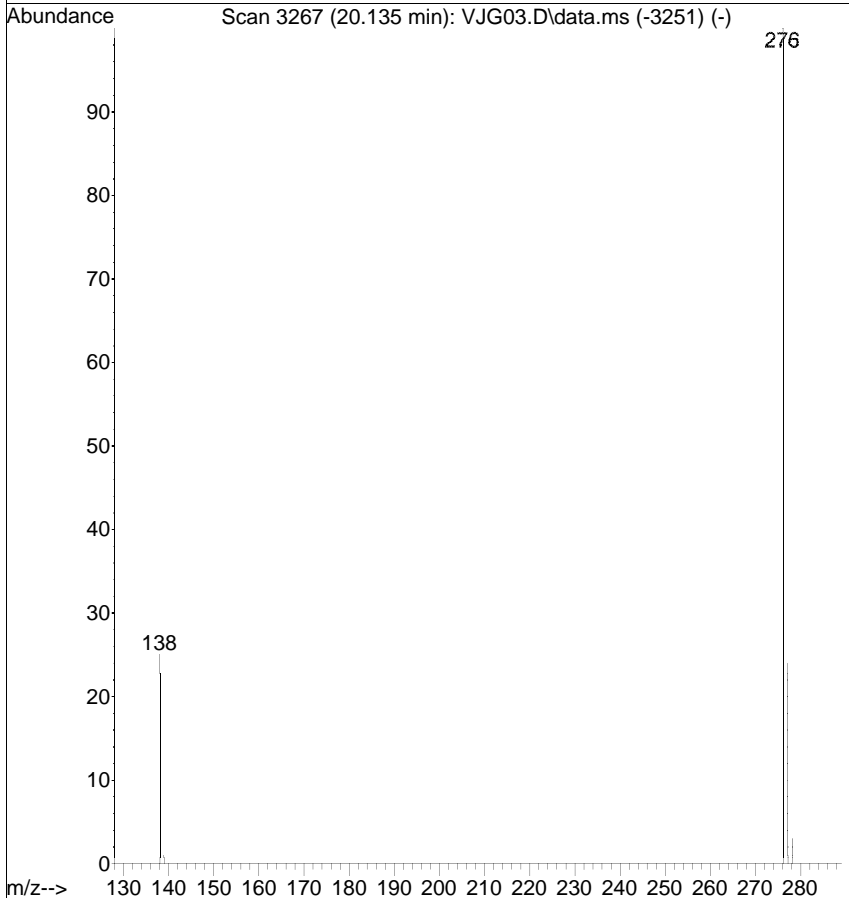


#29
 Benzo(g,h,i)perylene
 Concen: 0.0128 ug/mL
 RT: 20.136 min Scan# 3266
 Delta R.T. 0.001 min
 Lab File: VJH22.D
 Acq: 17 Oct 2018 8:43 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	78.1	0.0	22.1#
277	50.8	2.5	42.5#



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 303845-002 Client ID : BR11-1GW02
 Seqnum : 528418192023 Matrix : Water Acct : TRC-SF (MJD)
 File : vjh23 Batch : 264323 Time : 17-OCT-2018 21:17
 Cal : 528398235001 Caldate : 03-OCT-2018
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1050.00 mL --> 1.0 ml = 0.0009524 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.002200	ND	0.1		u
Acenaphthylene	0.001300	ND	0.1		u
Acenaphthene	0.004200	ND	0.1		u
Fluorene	0.002400	ND	0.1		u
Phenanthrene	0.003300	ND	0.1		u
Anthracene	0.004000	ND	0.1		u
Fluoranthene	0.002200	ND	0.1		u
Pyrene	0.005100	ND	0.1		u
Benzo(a)anthracene	0.002100	ND	0.1		u
Chrysene	0.002200	ND	0.1		u
Benzo(b)fluoranthene	0.003800	ND	0.1		u
Benzo(k)fluoranthene	0.002000	ND	0.1		u
Benzo(a)pyrene	0.005100	ND	0.1		u
Indeno(1,2,3-cd)pyrene	0.002000	ND	0.1		u
Dibenz(a,h)anthracene	0	ND	0.1		u
Benzo(g,h,i)perylene	0.01230	ND	0.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.8963	0.9524	0.8536	90	48-124	c+ u
2-Fluorobiphenyl	0.6900	0.9524	0.6571	69	51-120	u
Terphenyl-d14	0.7854	0.9524	0.7480	79	25-120	u

ISTD (CCV vjh04)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	92514	111290	20.30	9.03	9.04	0.01
Acenaphthene-d10	55806	70954	27.14	11.35	11.35	0.00
Phenanthrene-d10	99881	125422	25.57	13.31	13.31	0.00
Chrysene-d12	79516	75526	-5.02	16.78	16.78	0.00
Perylene-d12	65875	47373	-28.09	18.51	18.51	0.00

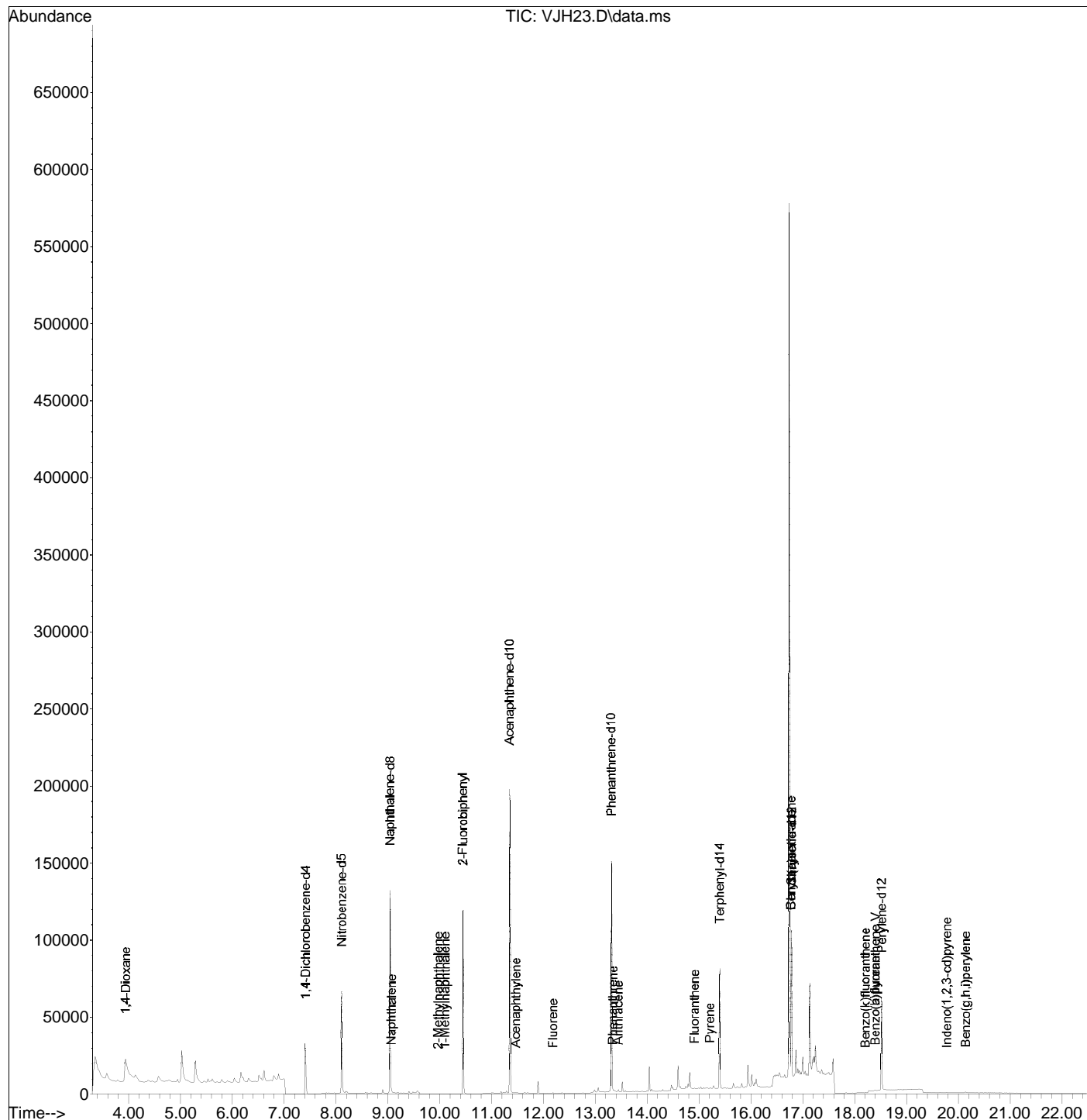
YW1 10/18/18 [Nitrobenzene-d5]: Recovery well within limits despite instrument bias

Analyst: YW1 Date: 10/18/18 Reviewer: LW Date: 10/18/18

+ = high bias c = CCV u = use

Data Path : G:\csinput.net\DATA\101718\
 Data File : VJH23.D
 Acq On : 17 Oct 2018 9:17 pm
 Operator :
 Sample : s,303845-002
 Misc : 264323,1,
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 17 21:40:41 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101718\
 Data File : VJH23.D
 Acq On : 17 Oct 2018 9:17 pm
 Operator :
 Sample : s,303845-002
 Misc : 264323,1,
 ALS Vial : 23 Sample Multiplier: 1

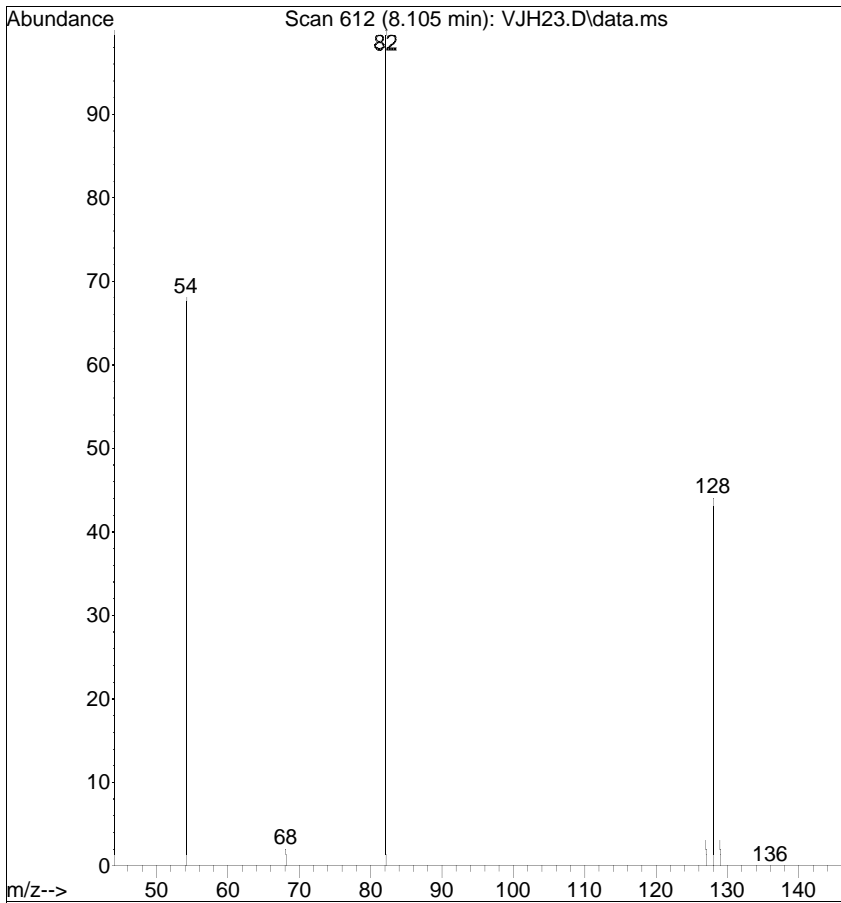
Quant Time: Oct 17 21:40:41 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.406	152	27129	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.038	136	111290	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.347	164	70954	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.305	188	125422	1.0000	ug/mL	0.00
18) Chrysene-d12	16.776	240	75526	1.0000	ug/mL	0.00
23) Perylene-d12	18.512	264	47373	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.938	88	2485	0.1996	ug/mL	# 34
4) Nitrobenzene-d5	8.105	82	31781	0.8963	ug/mL	86
5) Naphthalene	9.066	128	252	0.0022	ug/mL	# 45
6) 2-Methylnaphthalene	9.969	142	109	0.0013	ug/mL	83
7) 1-Methylnaphthalene	10.100	142	144	0.0018	ug/mL	79
9) 2-Fluorobiphenyl	10.446	172	79835	0.6900	ug/mL	90
10) Acenaphthylene	11.463	152	164	0.0013	ug/mL	# 16
11) Acenaphthene	11.347	154	326	0.0042	ug/mL	# 34
12) Fluorene	12.182	166	226	0.0024	ug/mL	# 57
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.335	178	430	0.0033	ug/mL	# 21
16) Anthracene	13.441	178	511	0.0040	ug/mL	# 1
17) Fluoranthene	14.906	202	346	0.0022	ug/mL	# 1
19) Pyrene	15.207	202	534	0.0051	ug/mL	# 51
20) Terphenyl-d14	15.393	244	67509	0.7854	ug/mL	88
21) Benzo(a)anthracene	16.771	228	200	0.0021	ug/mL	# 45
22) Chrysene	16.771	228	200	0.0022	ug/mL	# 53
24) Benzo(b)fluoranthene	18.389	252	233	0.0038	ug/mL	# 1
25) Benzo(k)fluoranthene	18.200	252	127	0.0020	ug/mL	# 1
26) Benzo(a)pyrene	18.389	252	280	0.0051	ug/mL	# 1
27) Indeno(1,2,3-cd)pyrene	19.768	276	107	0.0020	ug/mL	# 1
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
29) Benzo(g,h,i)perylene	20.131	276	518	0.0123	ug/mL	# 29

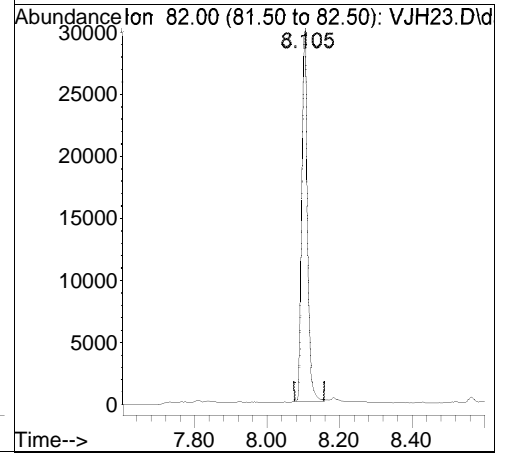
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

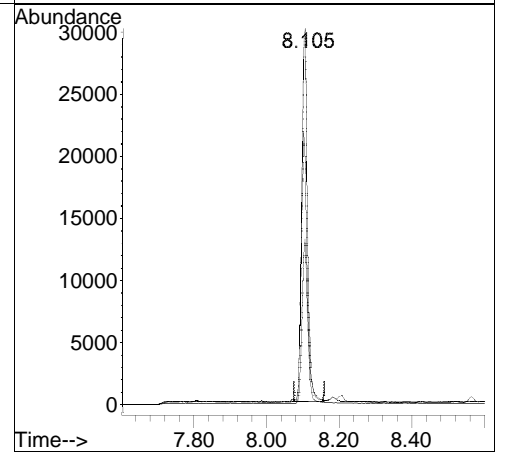
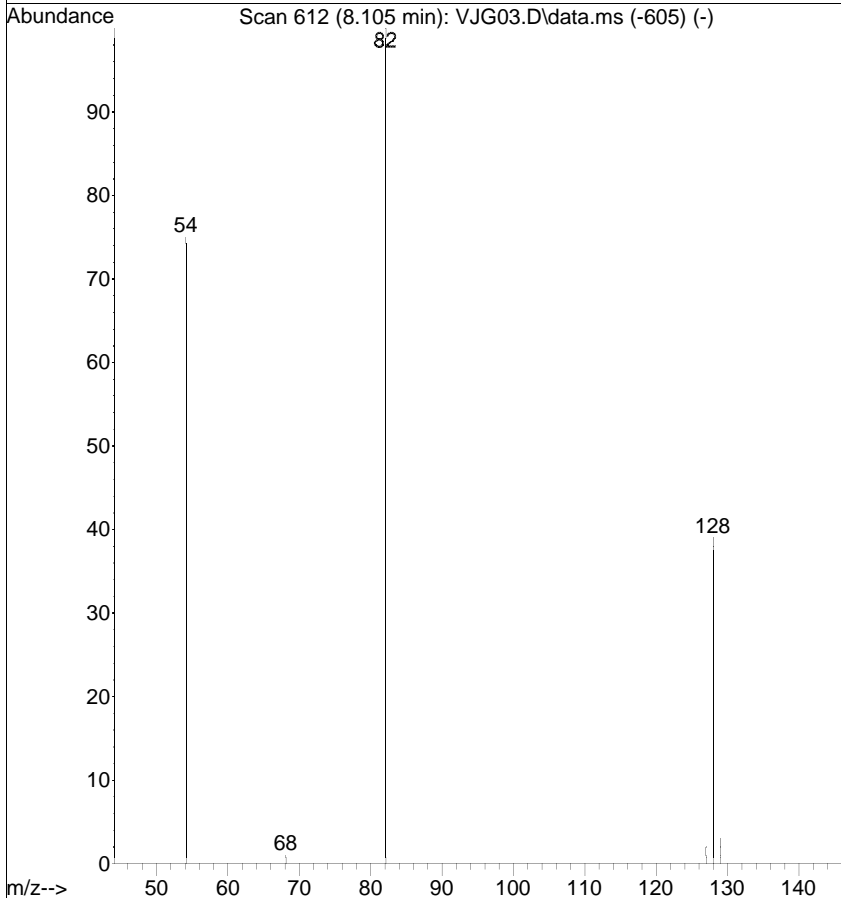


#4
 Nitrobenzene-d5
 Concen: 0.8963 ug/mL
 RT: 8.105 min Scan# 612
 Delta R.T. -0.000 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

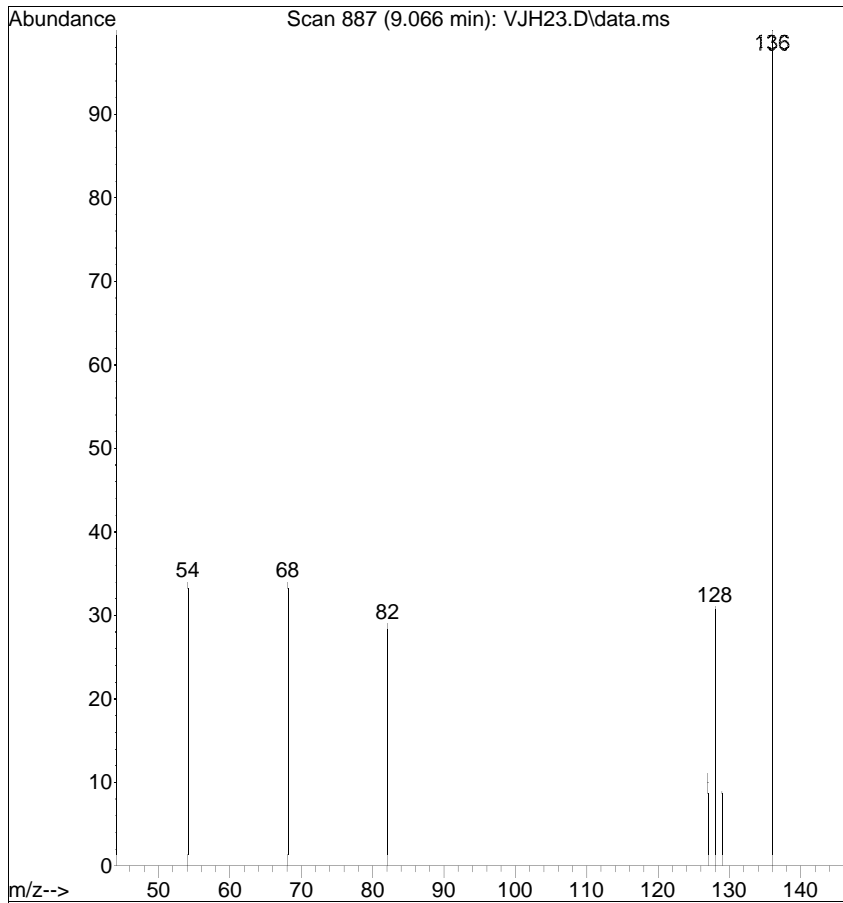
Tgt Ion	Resp	Lower	Upper
82	31781		
128	44.1	10.5	50.5
54	68.3	56.2	96.2



Ref

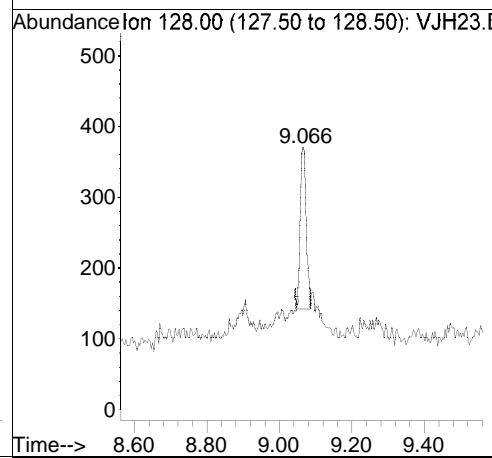


Raw

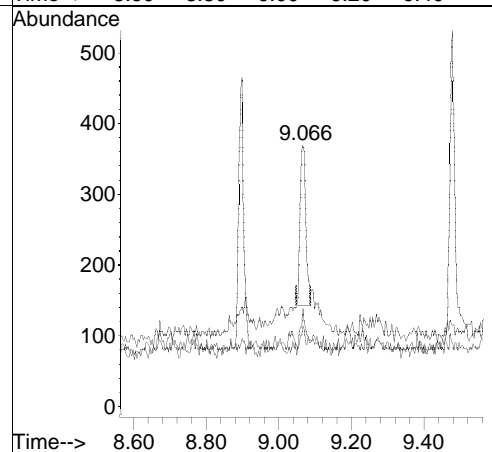
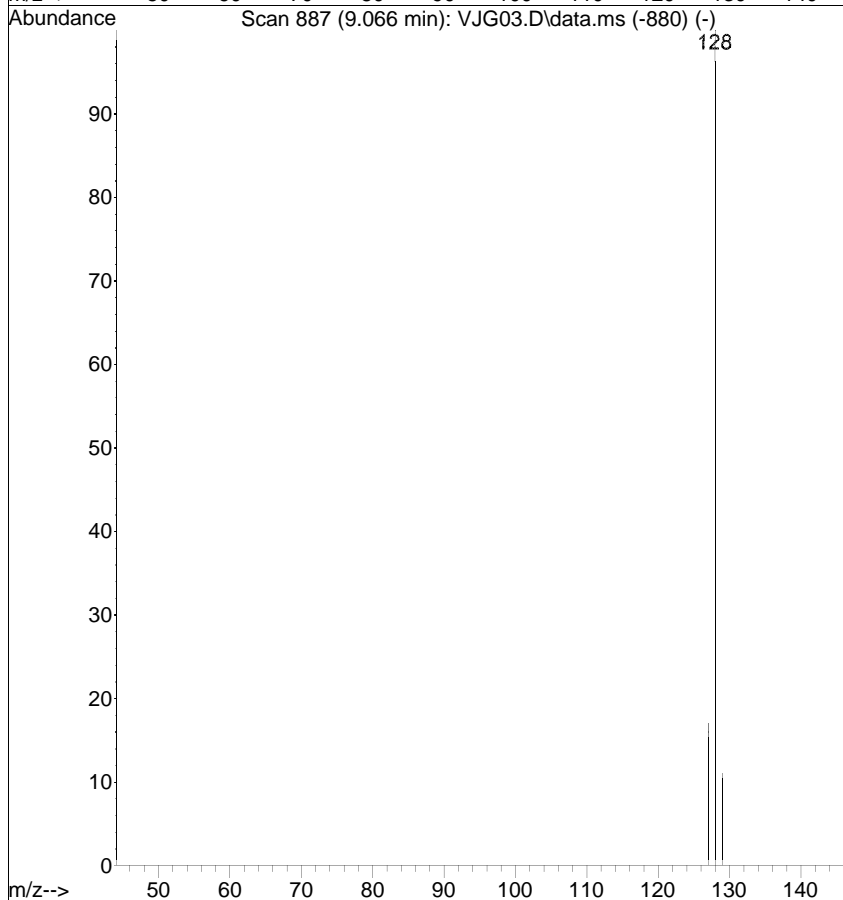


#5
 Naphthalene
 Concen: 0.0022 ug/mL
 RT: 9.066 min Scan# 887
 Delta R.T. -0.000 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

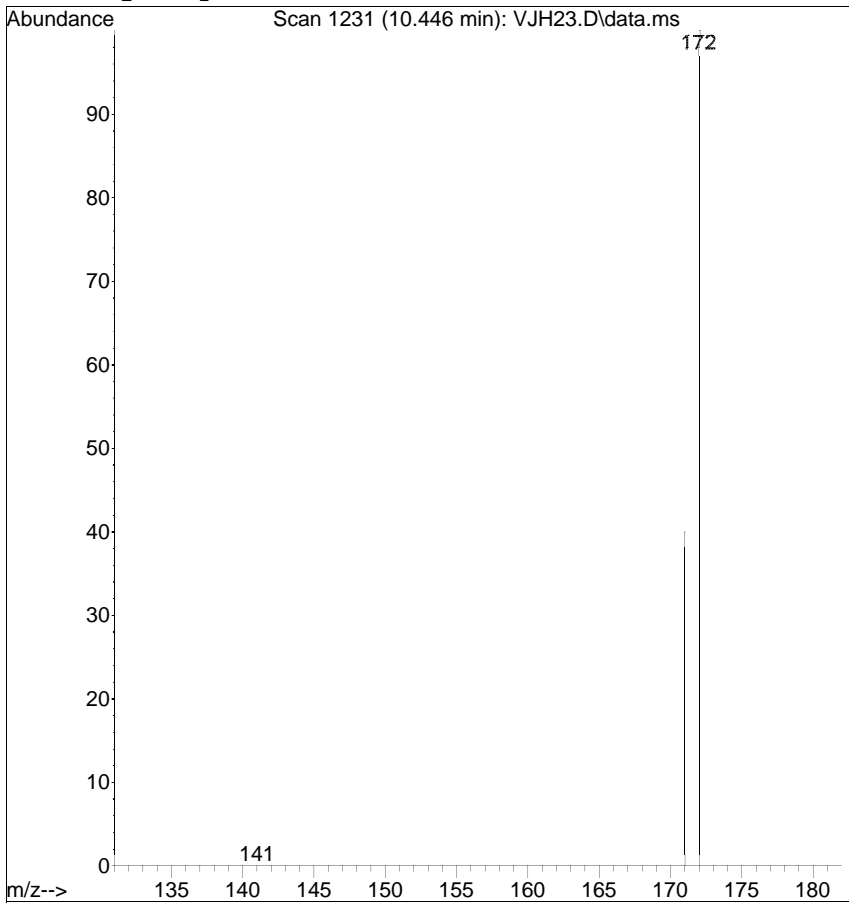
Tgt Ion	Resp	Lower	Upper
128	100		
129	30.8	0.0	31.1
127	37.3	0.0	34.0#



Ref

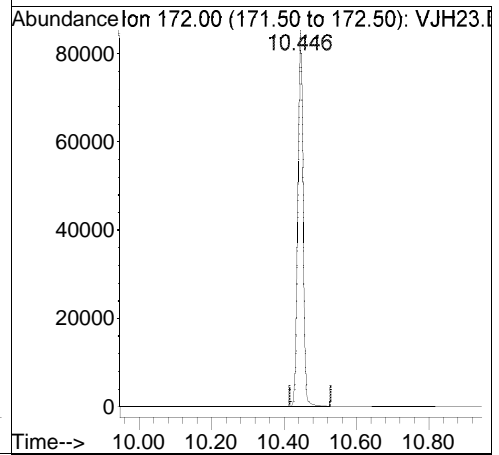


Raw

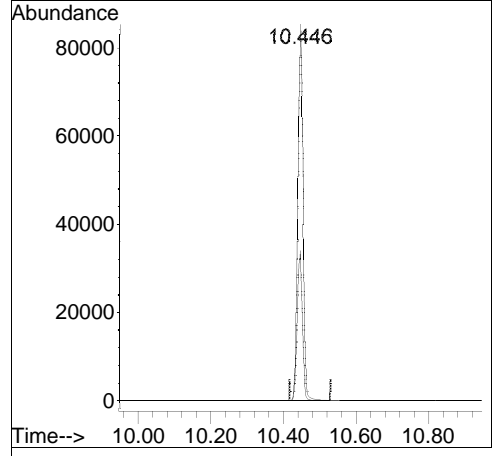
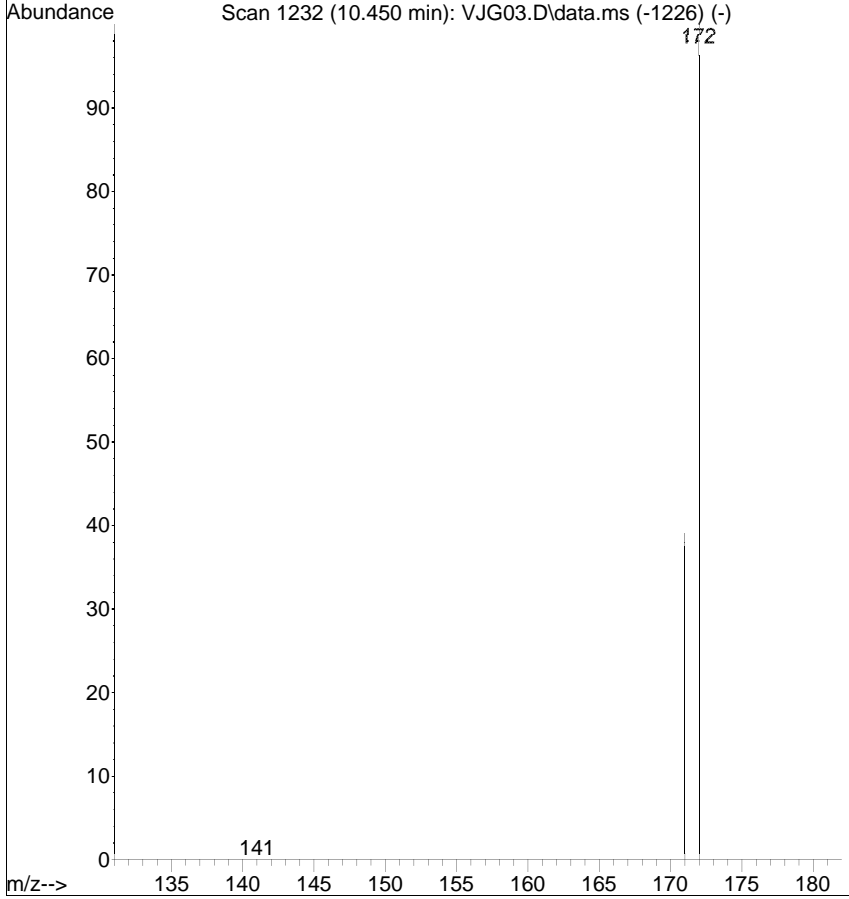


#9
2-Fluorobiphenyl
Concen: 0.6900 ug/mL
RT: 10.446 min Scan# 1231
Delta R.T. -0.005 min
Lab File: VJH23.D
Acq: 17 Oct 2018 9:17 pm

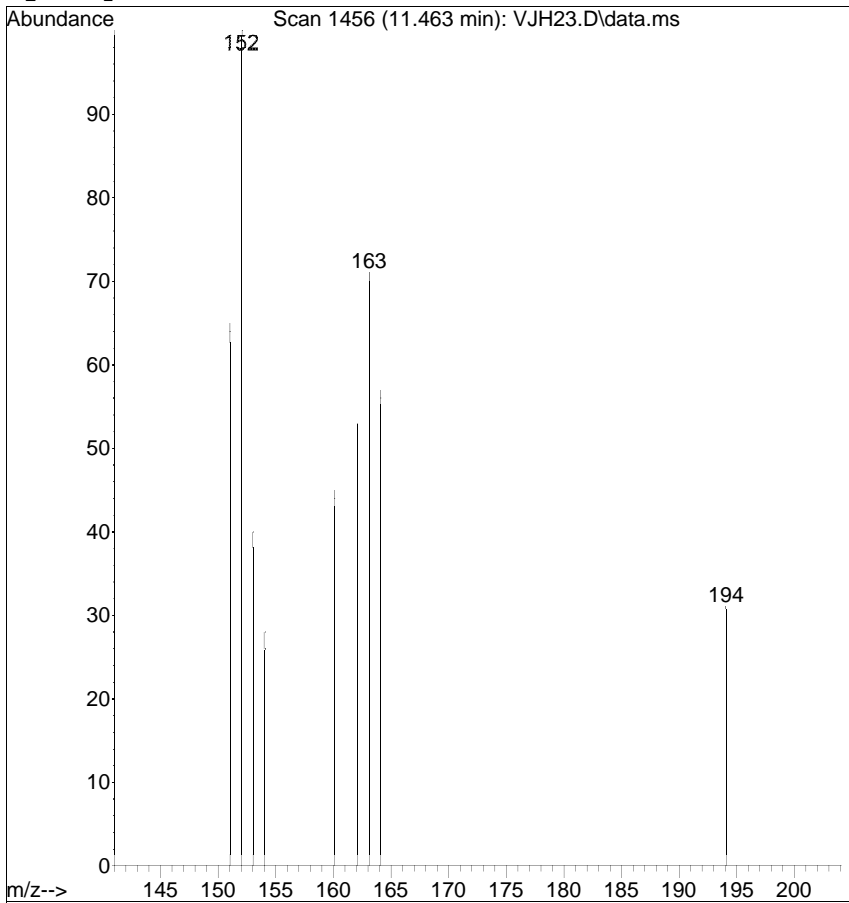
Tgt Ion	Resp	Lower	Upper
172	79835	100	
171	39.9	14.4	54.4



Ref

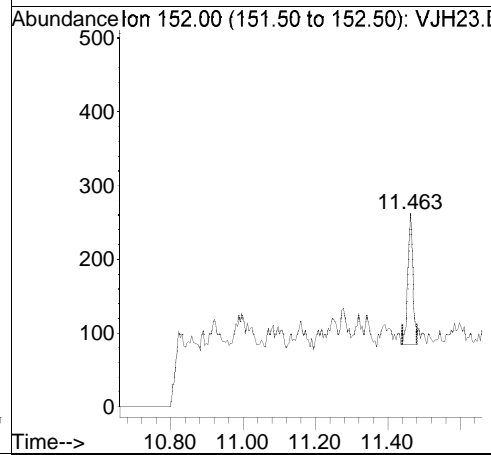


Raw

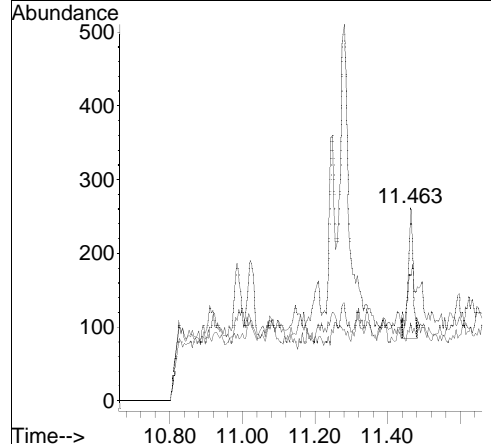
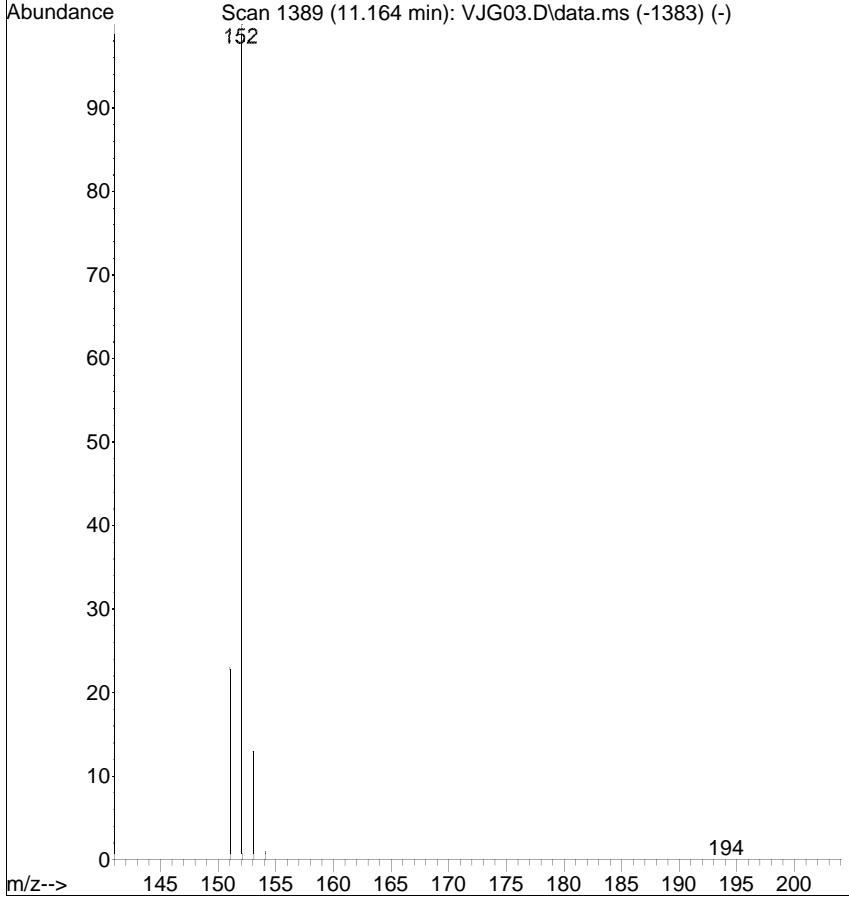


#10
 Acenaphthylene
 Concen: 0.0013 ug/mL
 RT: 11.463 min Scan# 1456
 Delta R.T. 0.299 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

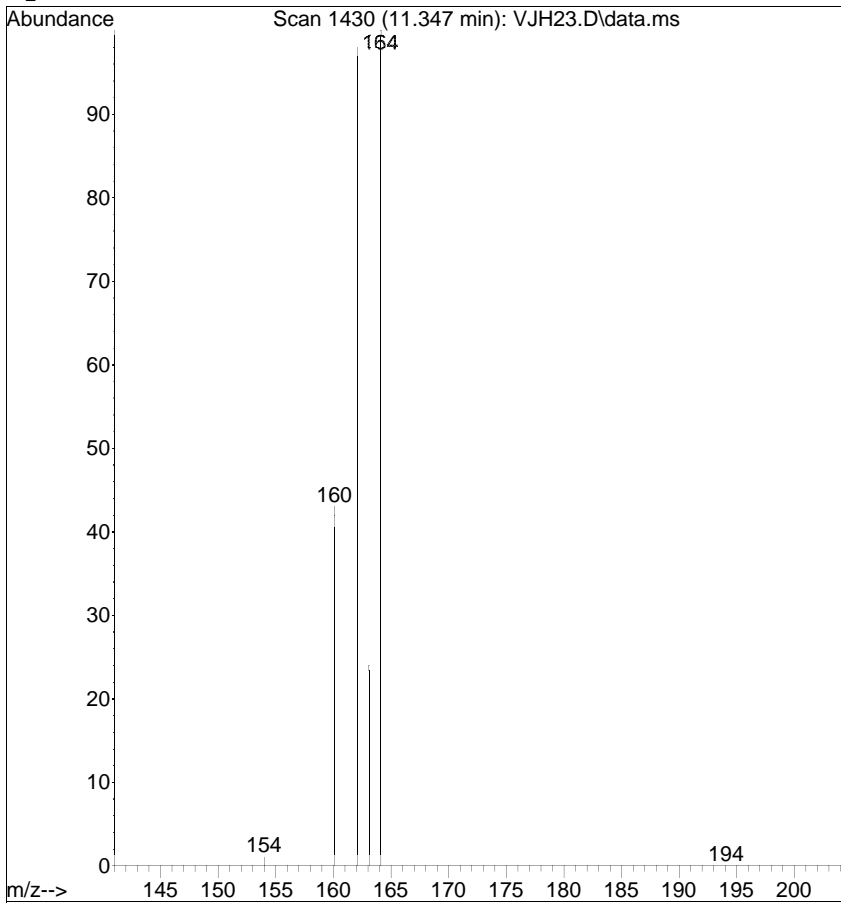
Tgt Ion	Ratio	Lower	Upper
152	100		
151	64.9	1.0	41.0#
153	40.5	0.0	33.1#



Ref

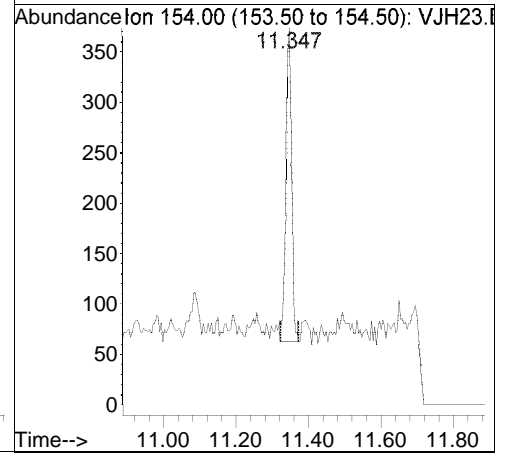


Raw

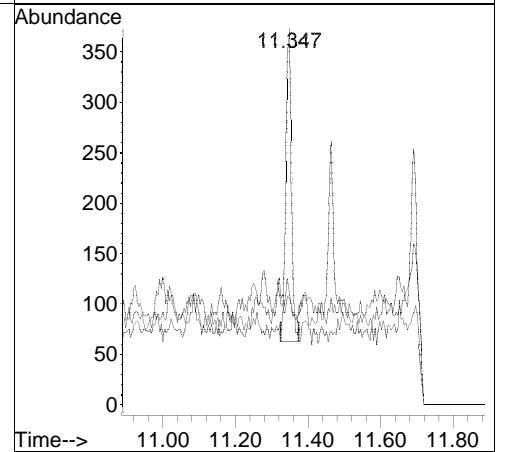
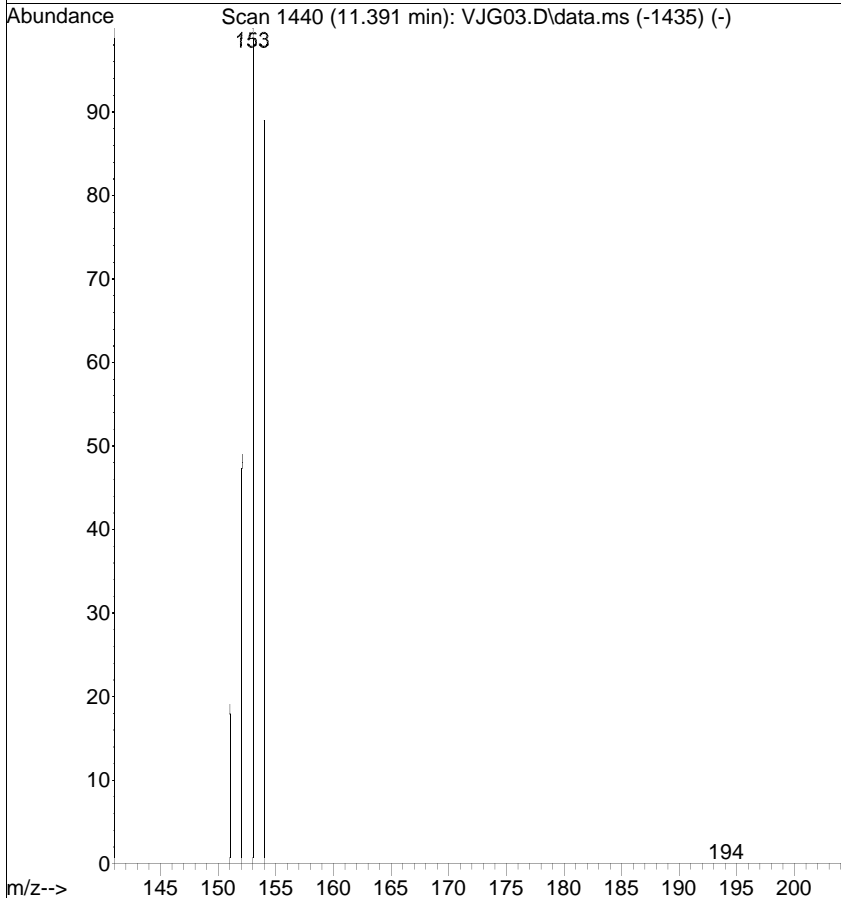


#11
 Acenaphthene
 Concen: 0.0042 ug/mL
 RT: 11.347 min Scan# 1430
 Delta R.T. -0.044 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

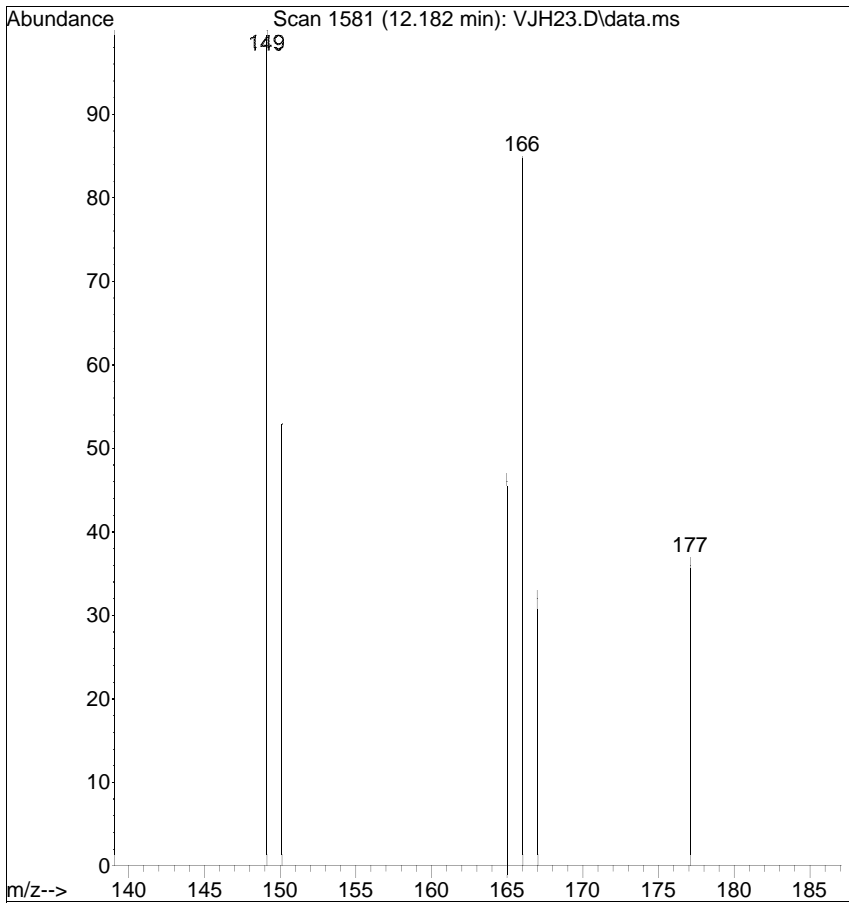
Tgt Ion	Resp	Lower	Upper
154	100		
152	30.3	35.4	75.4#
153	28.4	96.8	136.8#



Ref

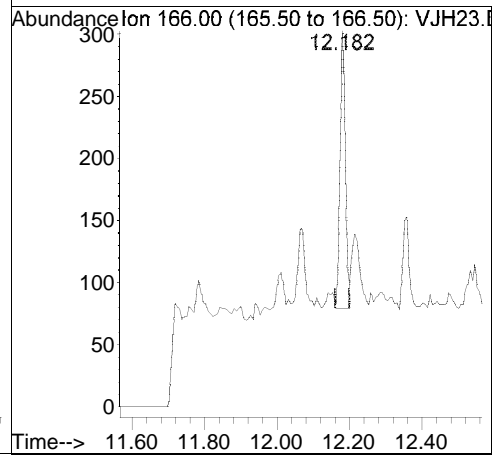


Raw

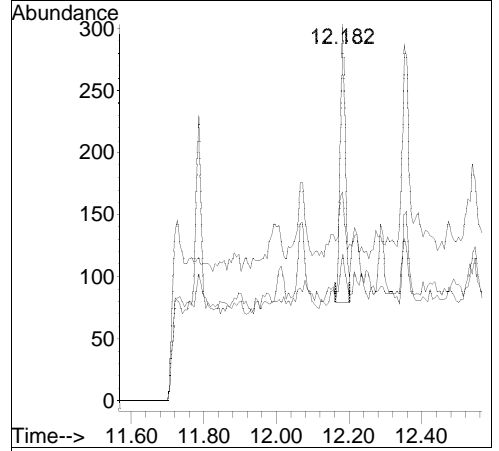
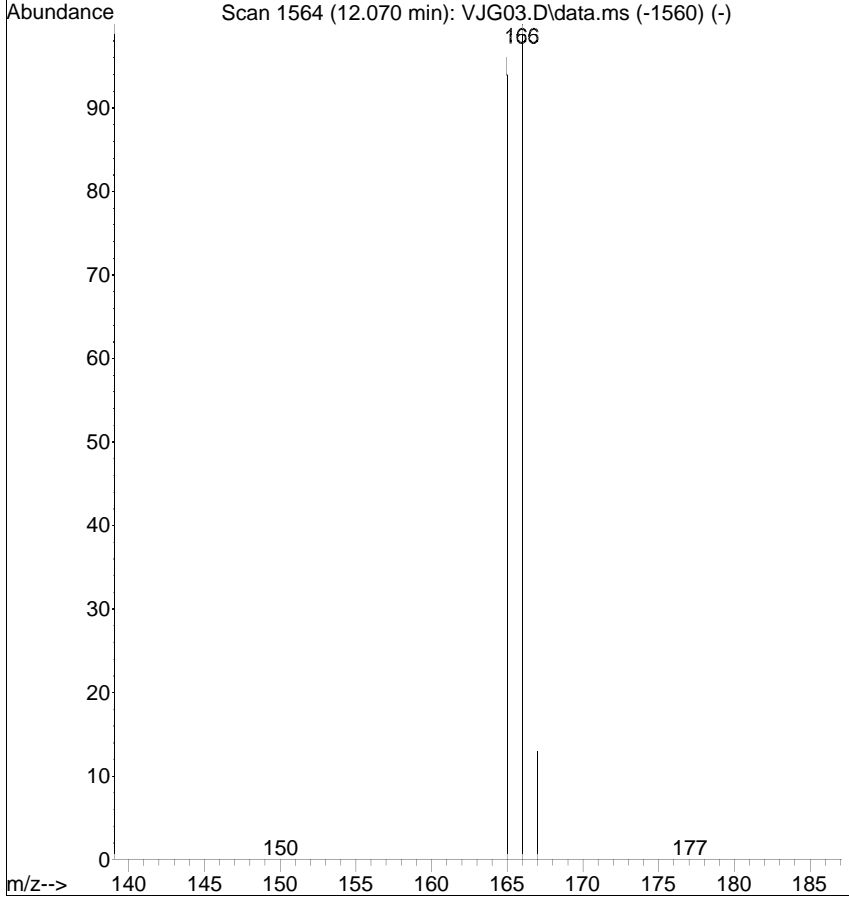


#12
 Fluorene
 Concen: 0.0024 ug/mL
 RT: 12.182 min Scan# 1581
 Delta R.T. 0.111 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

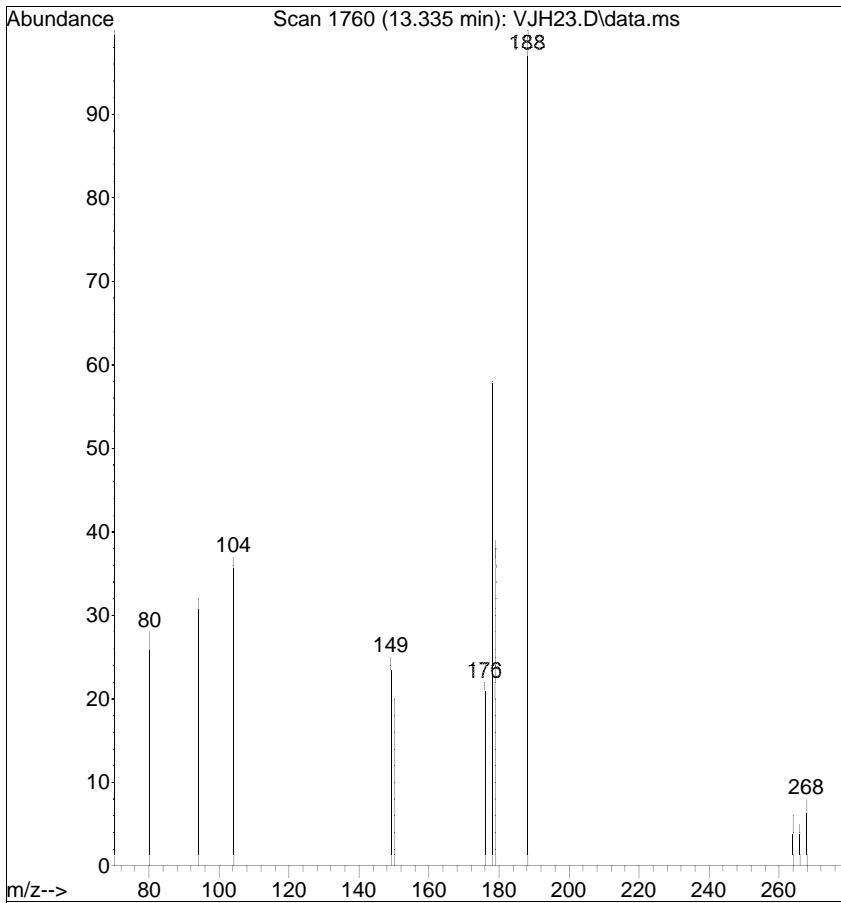
Tgt Ion	Resp	Lower	Upper
166	100		
165	55.4	74.9	114.9#
167	38.9	0.0	33.9#



Ref

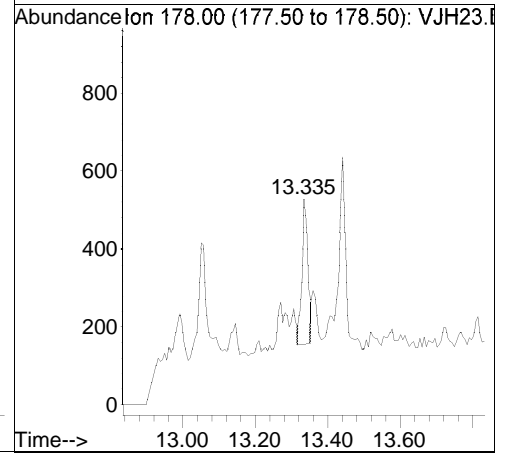


Raw

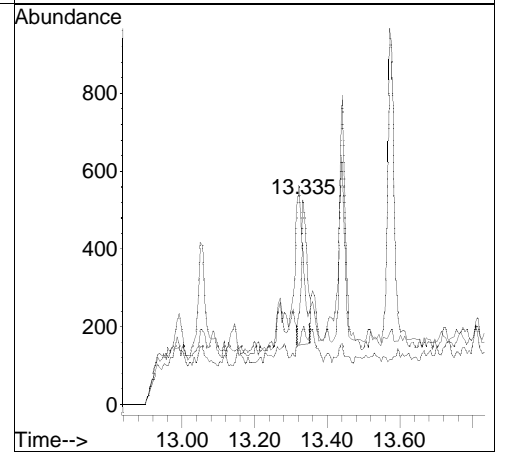
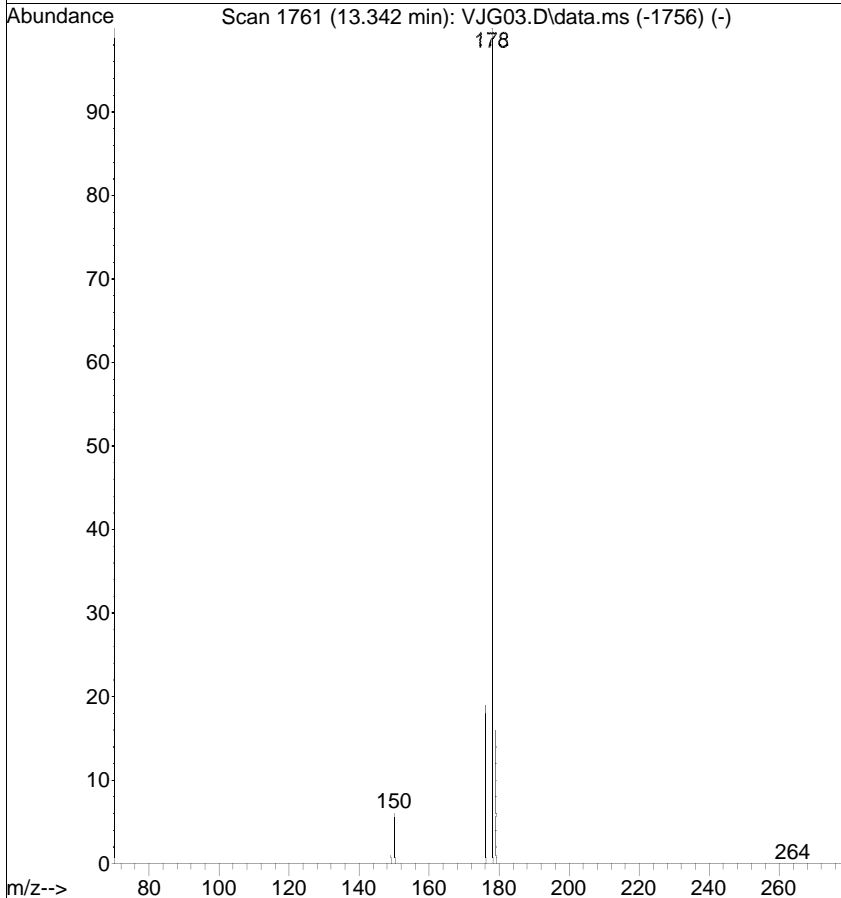


#15
 Phenanthrene
 Concen: 0.0033 ug/mL
 RT: 13.335 min Scan# 1760
 Delta R.T. -0.007 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

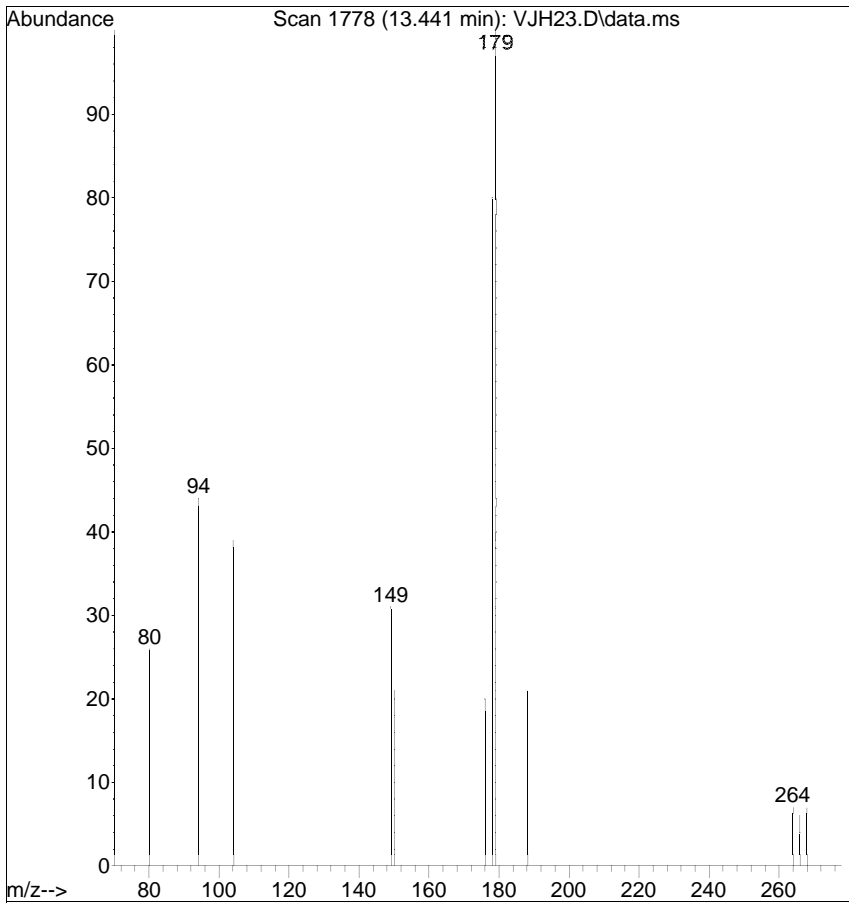
Tgt Ion	Resp	Lower	Upper
178	430		
178	100		
179	66.6	0.0	35.0#
176	38.3	0.0	38.9



Ref

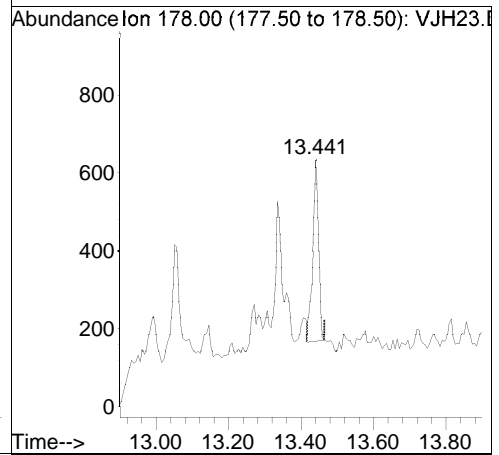


Raw

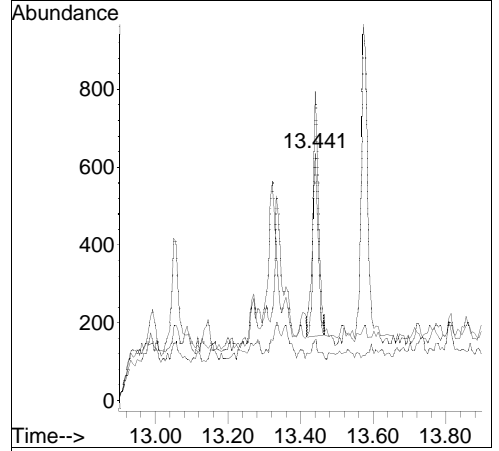
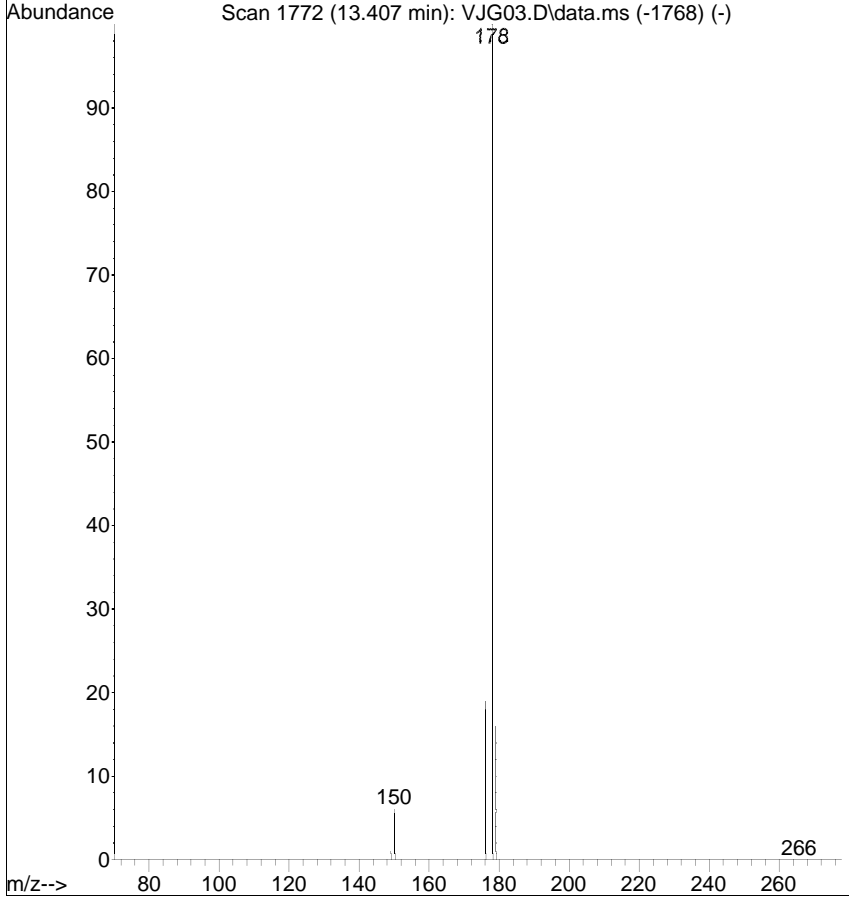


#16
 Anthracene
 Concen: 0.0040 ug/mL
 RT: 13.441 min Scan# 1778
 Delta R.T. 0.034 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

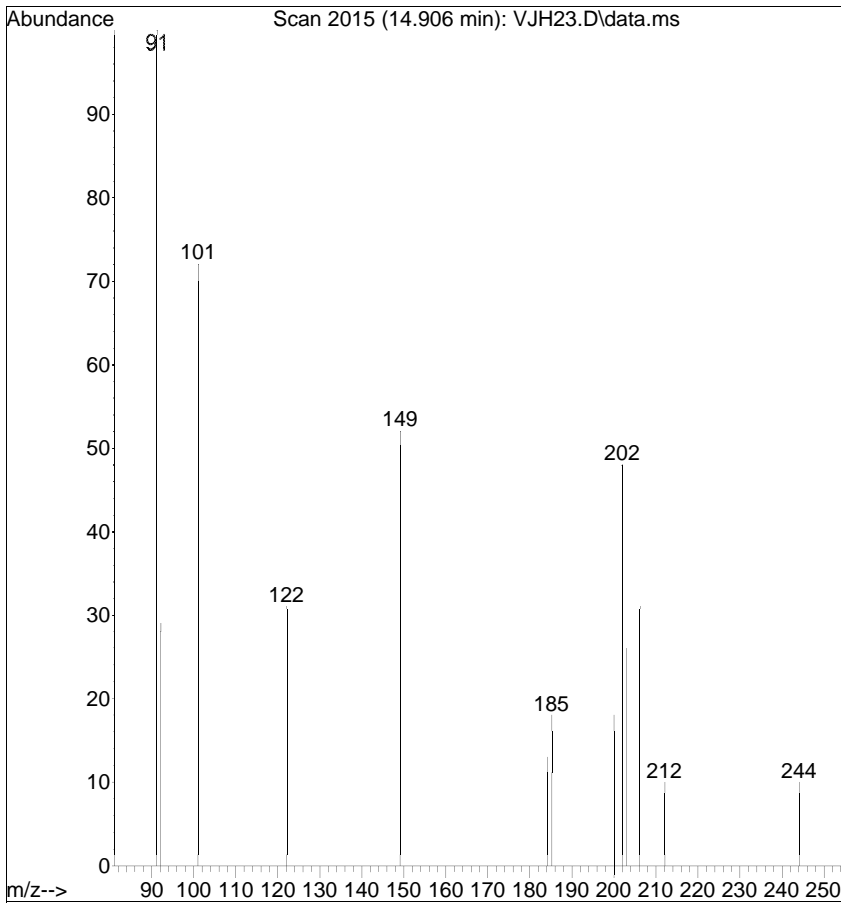
Tgt Ion	Ratio	Lower	Upper
178	100		
179	124.8	0.0	34.4#
176	24.8	0.0	39.5



Ref

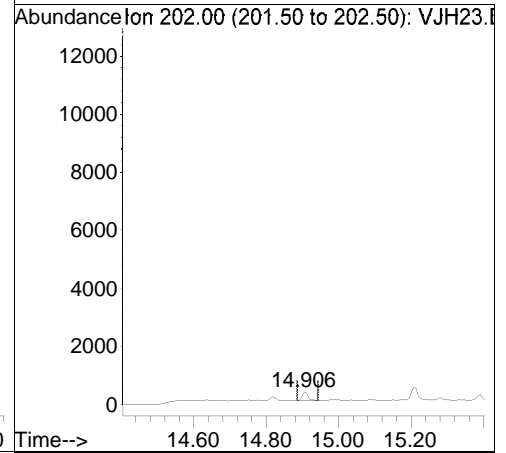


Raw

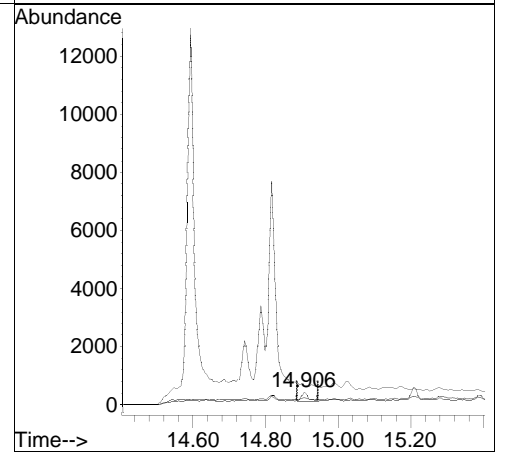
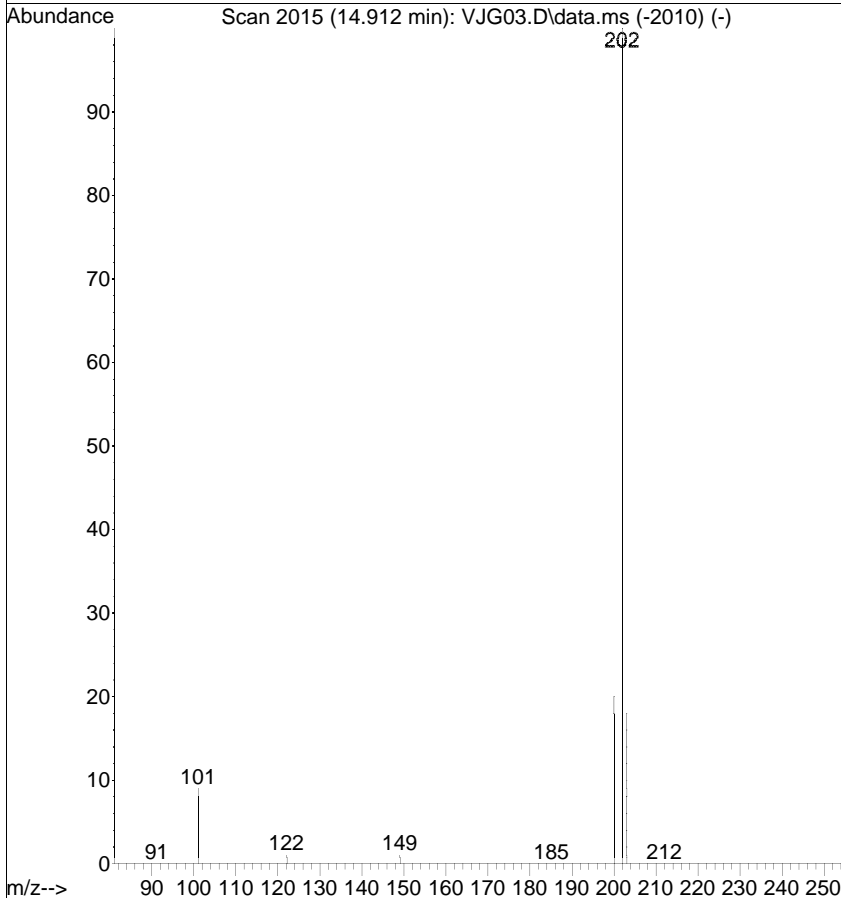


#17
 Fluoranthene
 Concen: 0.0022 ug/mL
 RT: 14.906 min Scan# 2015
 Delta R.T. -0.007 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

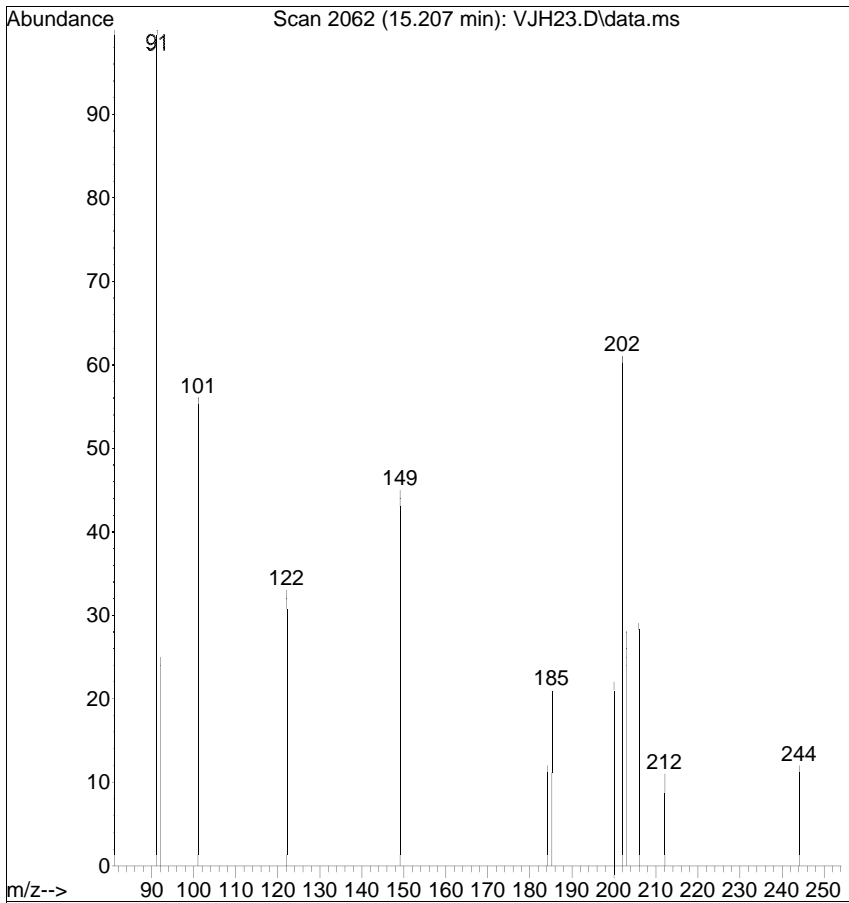
Tgt Ion	Resp	Lower	Upper
202	346		
101	150.8	0.0	21.1#
203	54.6	0.0	37.0#



Ref

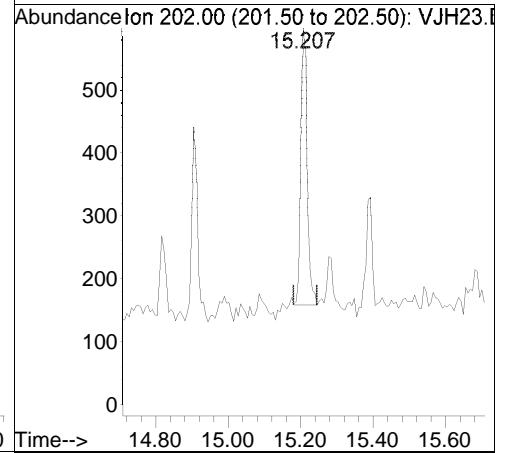


Raw

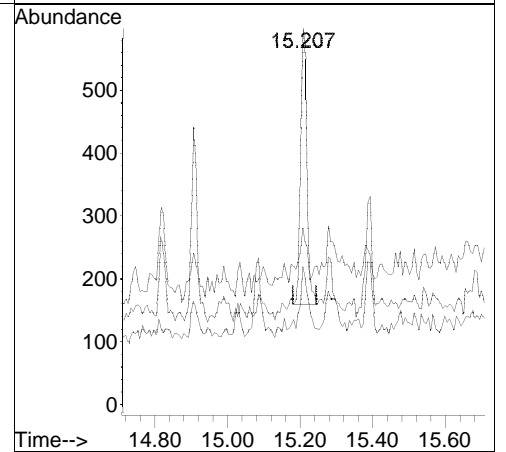
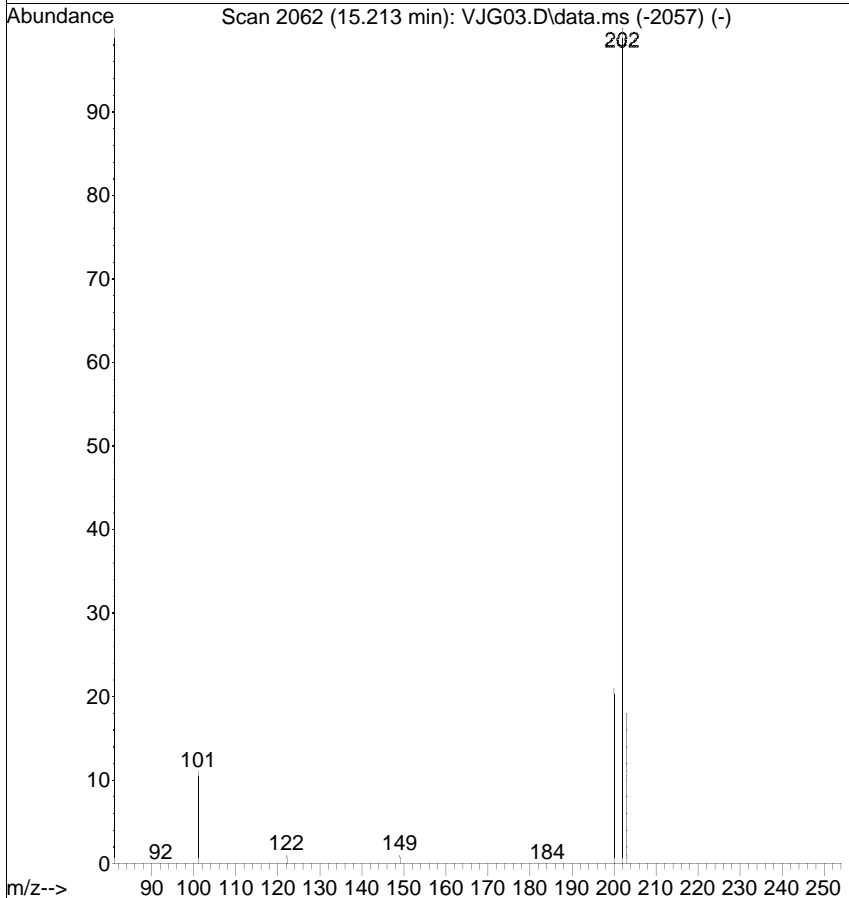


#19
 Pyrene
 Concen: 0.0051 ug/mL
 RT: 15.207 min Scan# 2062
 Delta R.T. -0.007 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

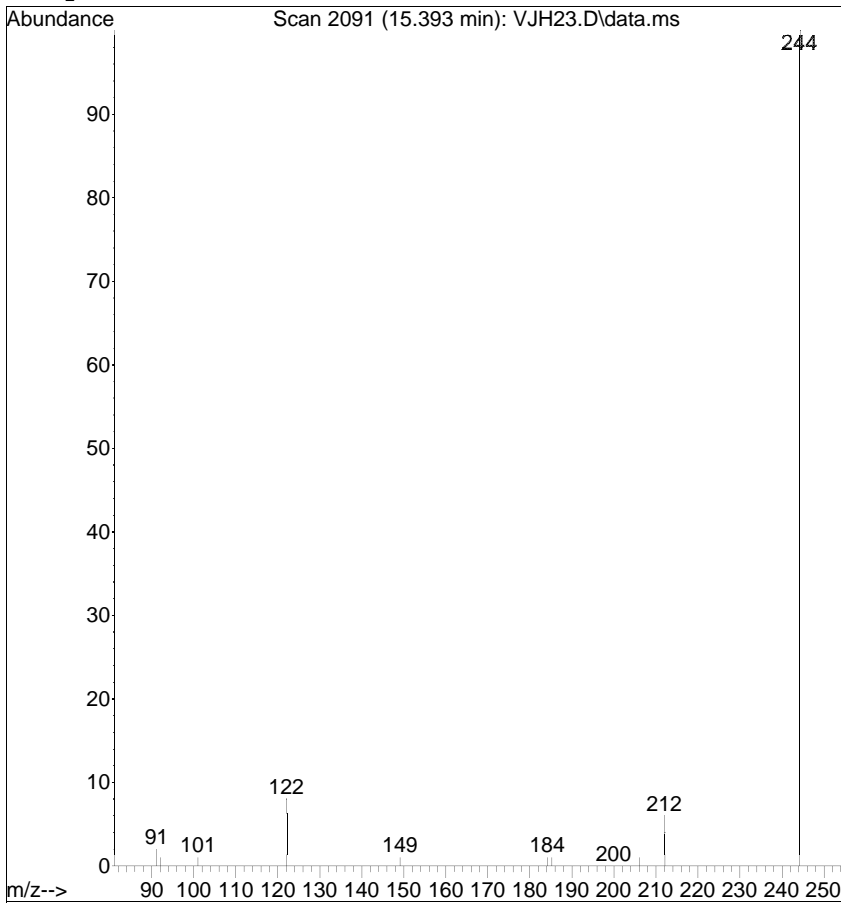
Tgt Ion	Ratio	Lower	Upper
202	100		
200	36.8	1.1	41.1
203	47.0	0.0	37.7#



Ref

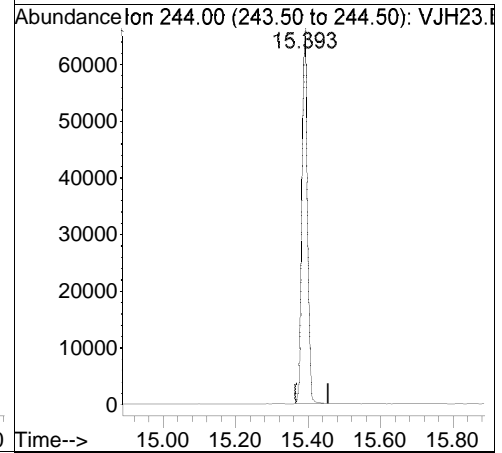


Raw

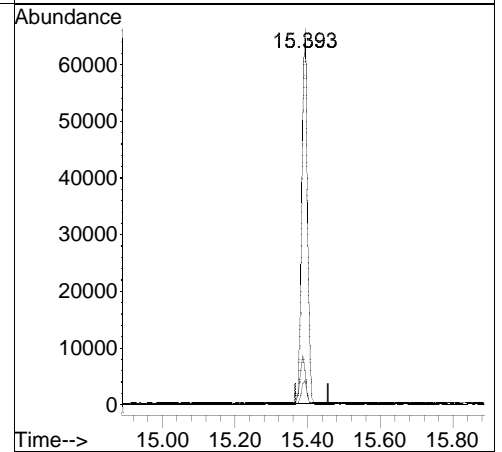
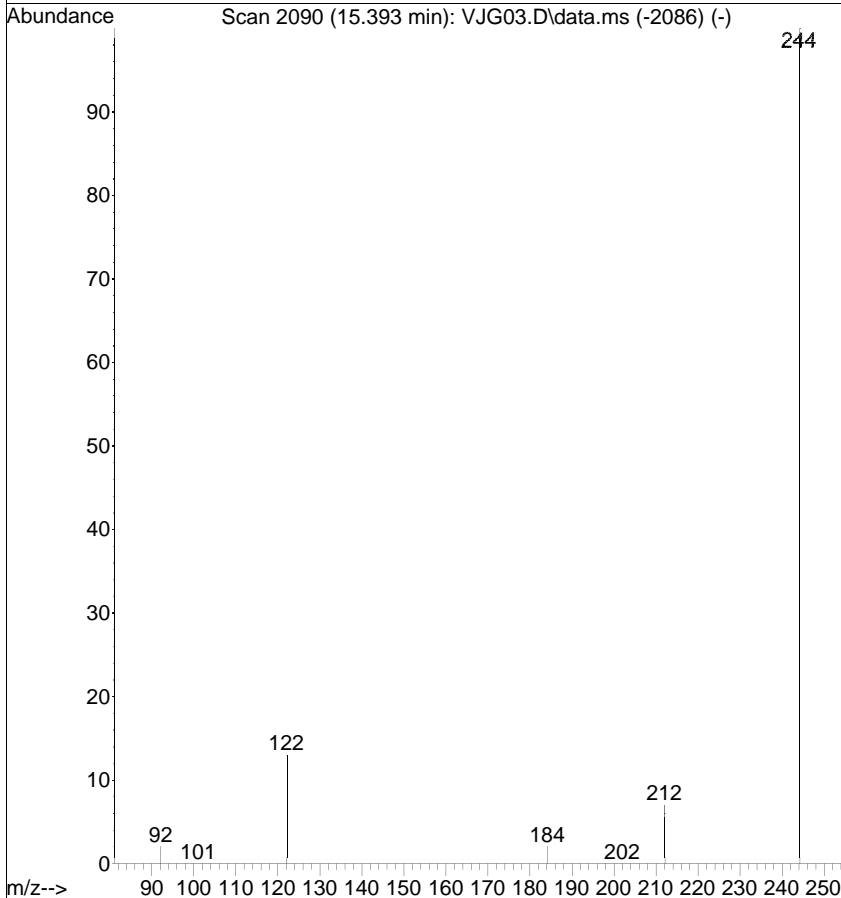


#20
 Terphenyl-d14
 Concen: 0.7854 ug/mL
 RT: 15.393 min Scan# 2091
 Delta R.T. -0.000 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

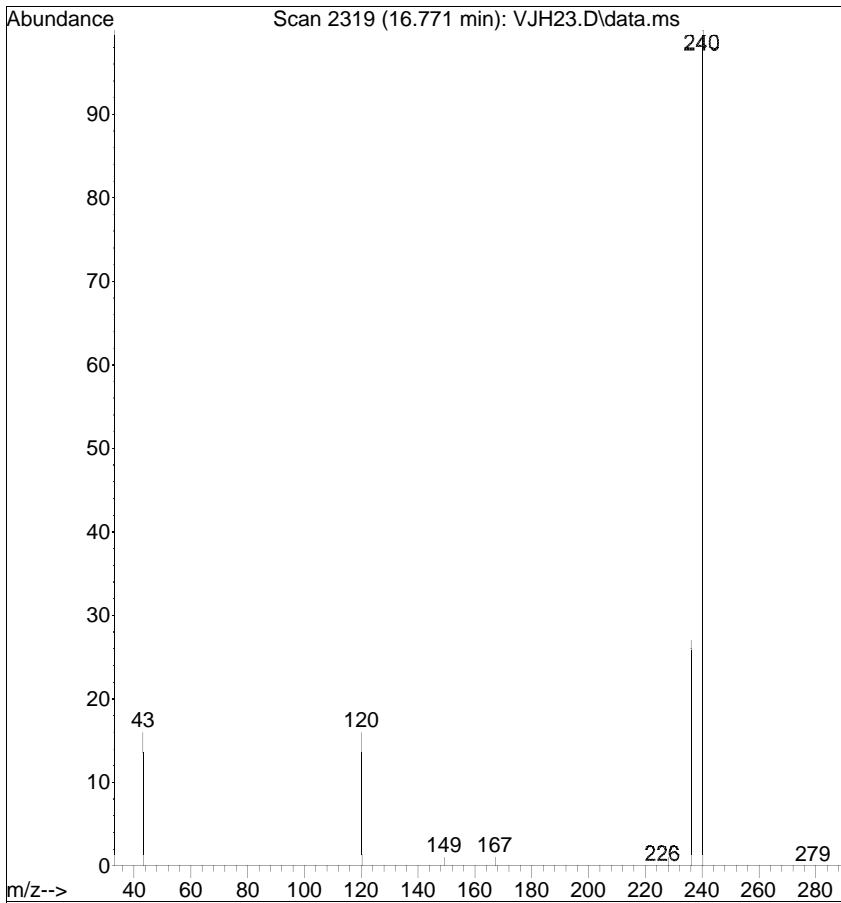
Tgt Ion	Ratio	Lower	Upper
244	100		
122	8.4	0.0	25.0
212	6.5	0.0	31.4



Ref

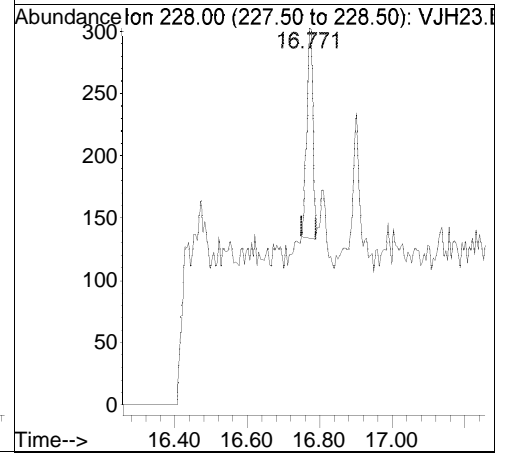


Raw

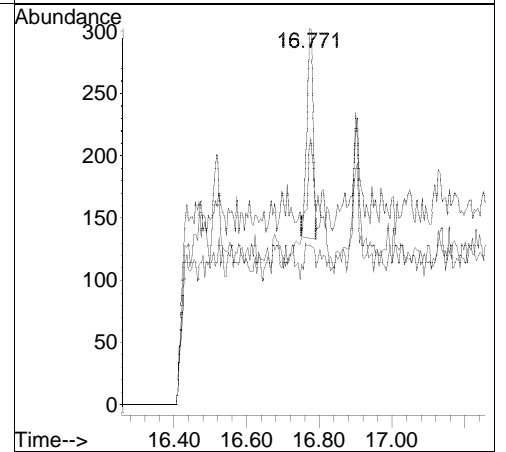
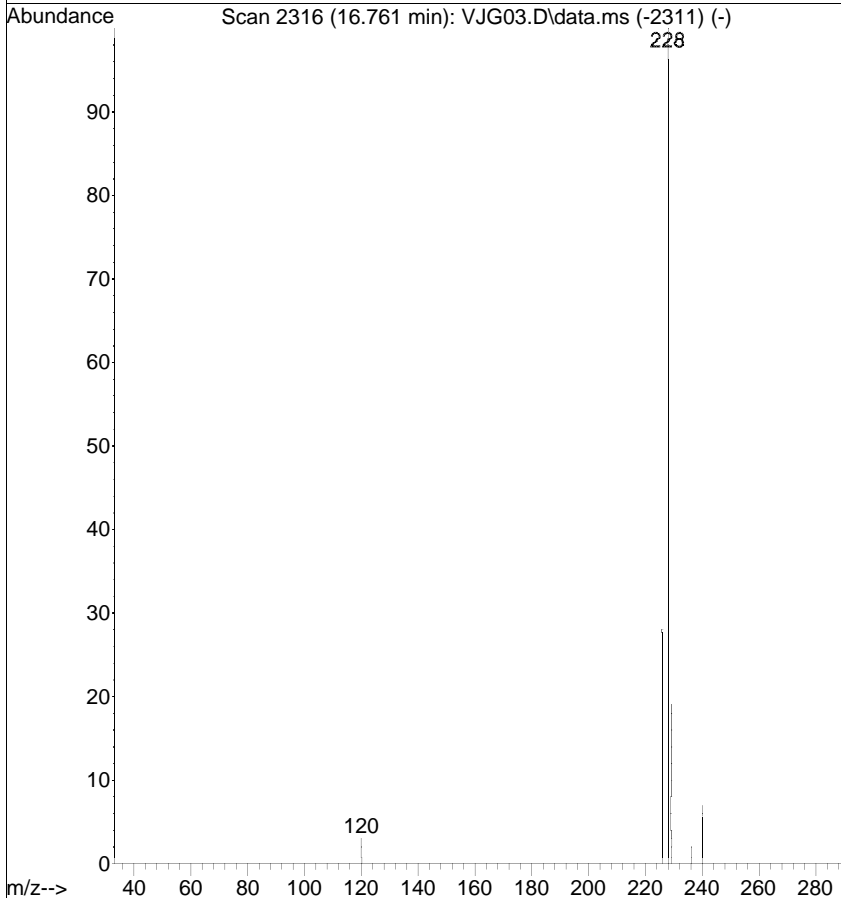


#21
 Benzo(a)anthracene
 Concen: 0.0021 ug/mL
 RT: 16.771 min Scan# 2319
 Delta R.T. 0.010 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

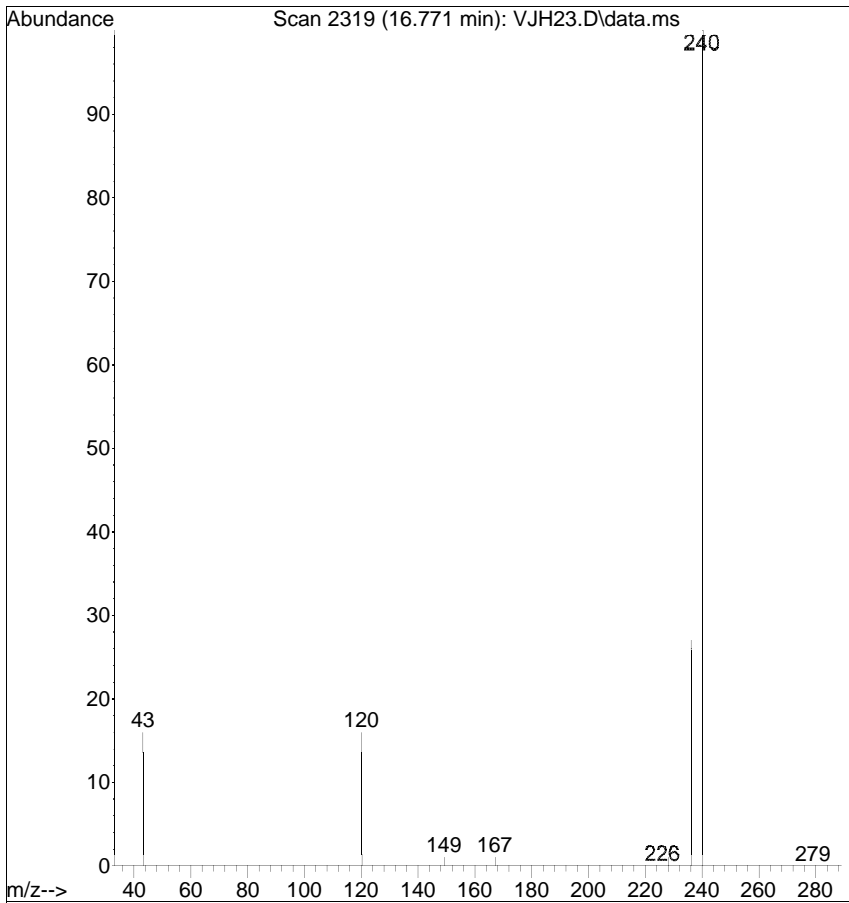
Tgt Ion	Ratio	Lower	Upper
228	100		
229	66.2	0.1	40.1#
226	42.4	9.3	49.3



Ref

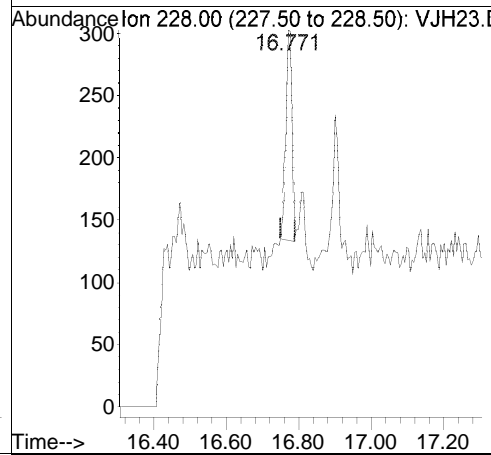


Raw

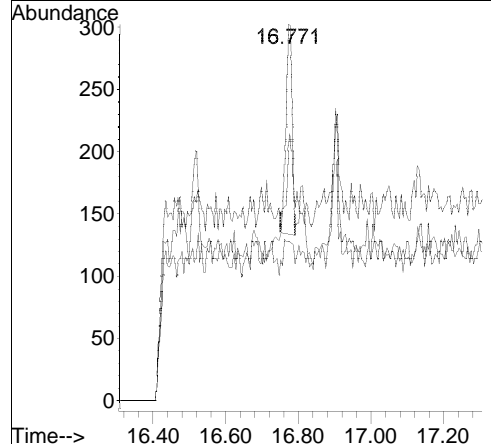
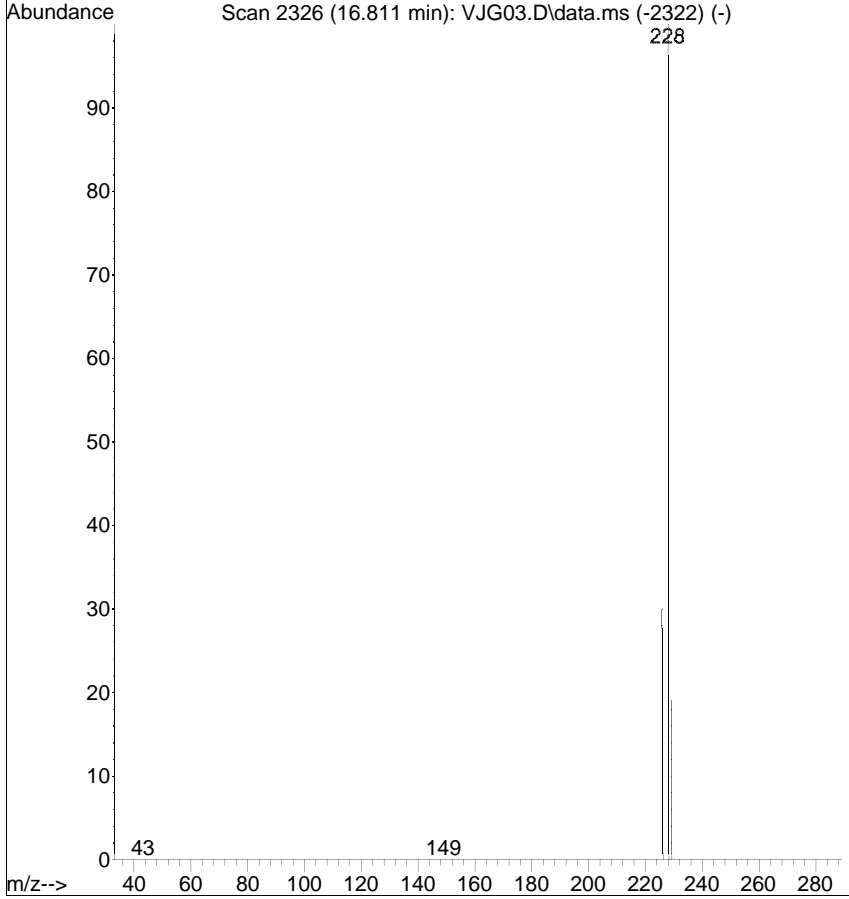


#22
 Chrysene
 Concen: 0.0022 ug/mL
 RT: 16.771 min Scan# 2319
 Delta R.T. -0.040 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

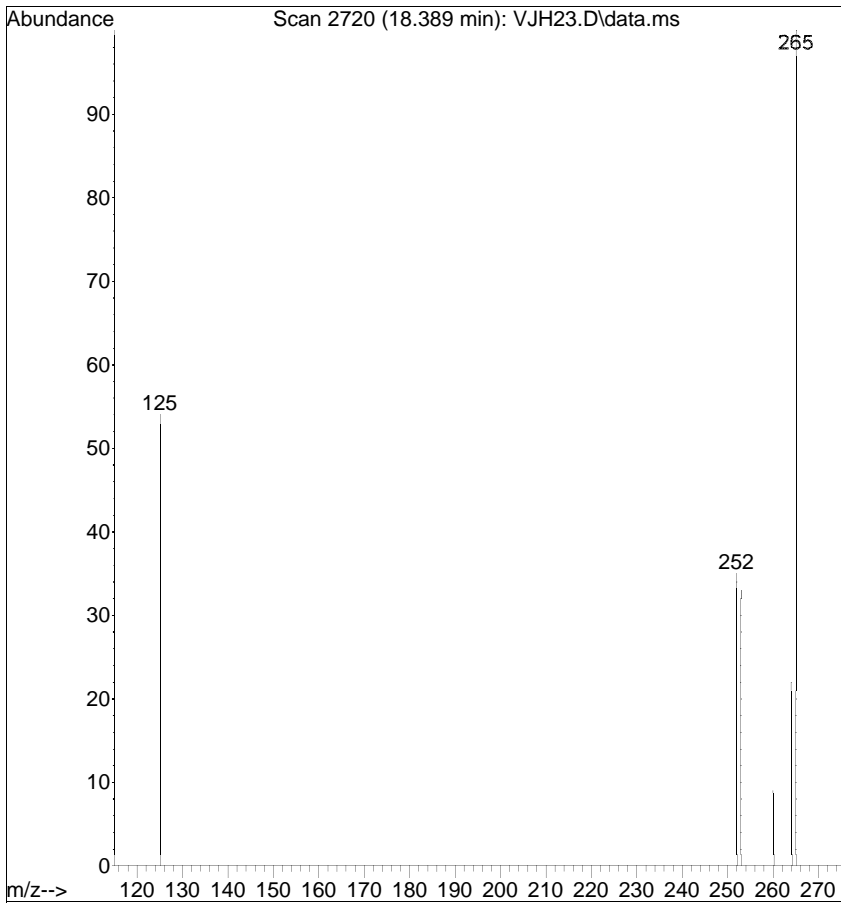
Tgt Ion	Ratio	Lower	Upper
228	100		
226	42.4	13.4	53.4
229	66.2	0.8	40.8#



Ref



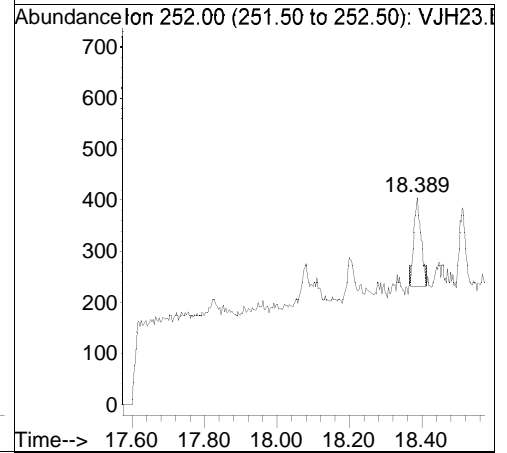
Raw



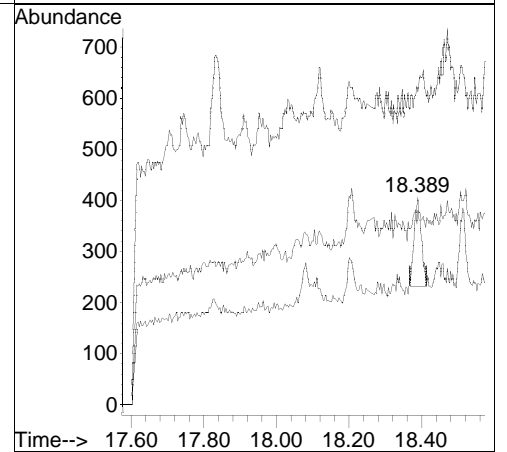
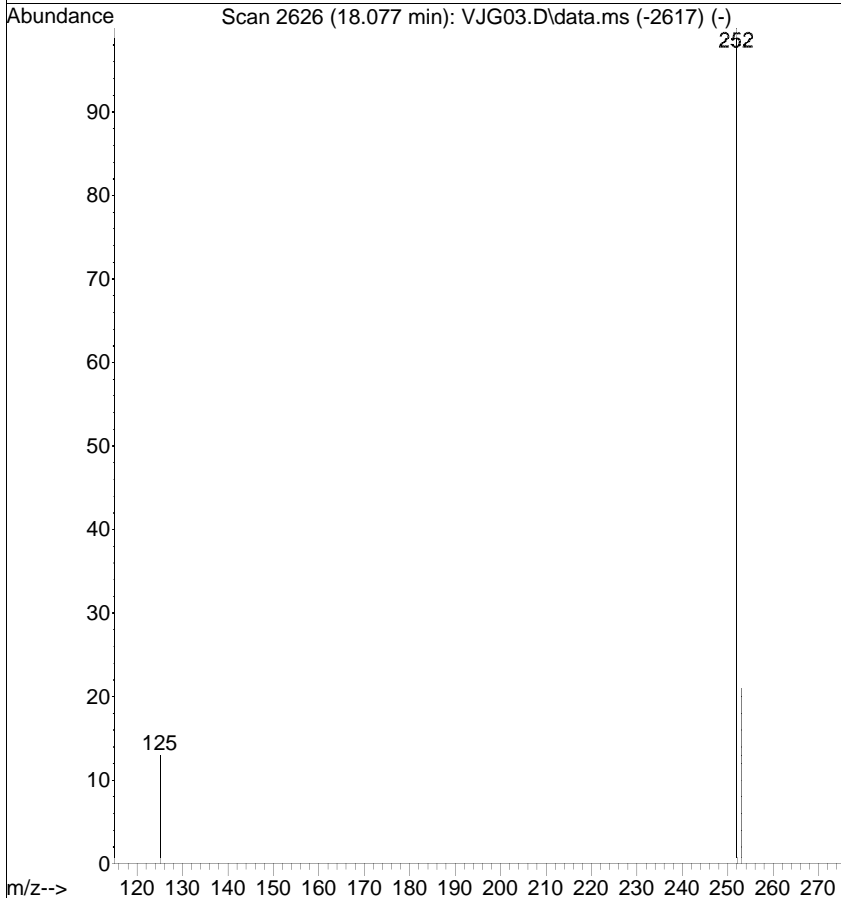
#24

Benzo(b)fluoranthene
 Concen: 0.0038 ug/mL
 RT: 18.389 min Scan# 2720
 Delta R.T. 0.312 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

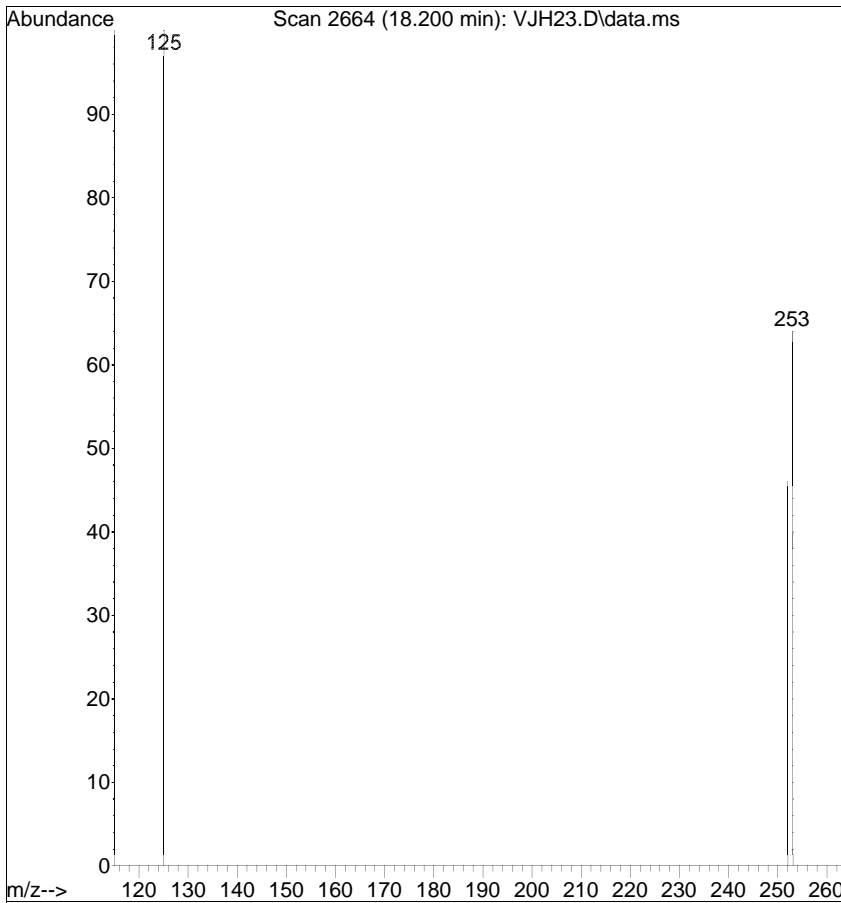
Tgt Ion	Ratio	Lower	Upper
252	100		
253	93.8	1.0	41.0#
125	151.0	0.0	20.9#



Ref

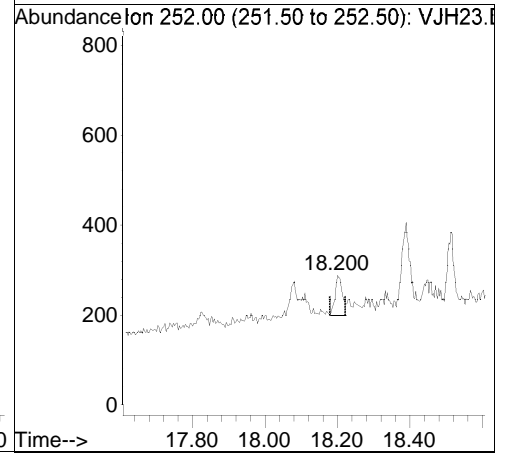


Raw

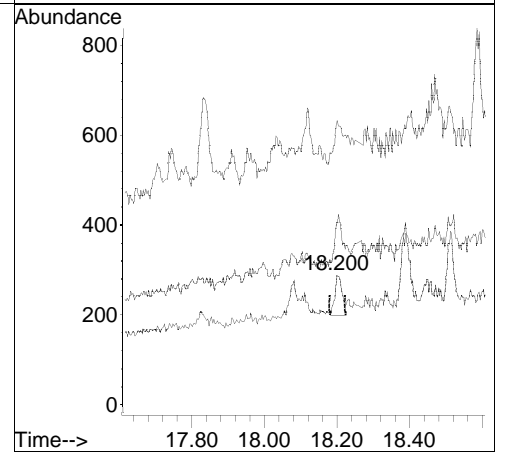
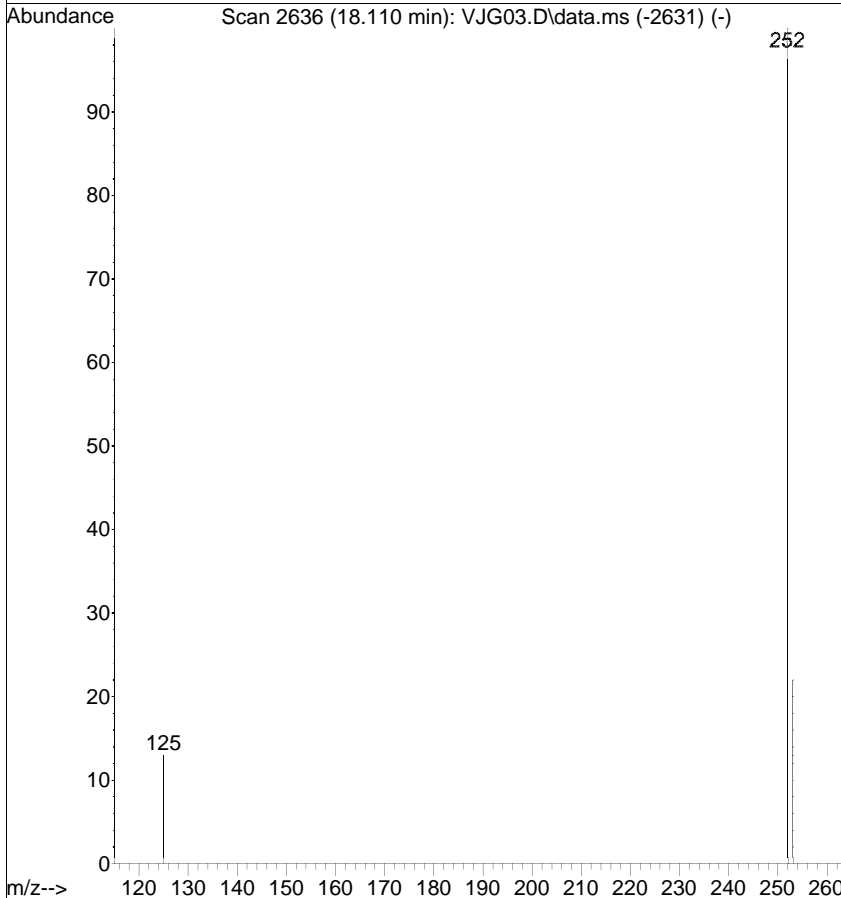


#25
 Benzo(k)fluoranthene
 Concen: 0.0020 ug/mL
 RT: 18.200 min Scan# 2664
 Delta R.T. 0.089 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

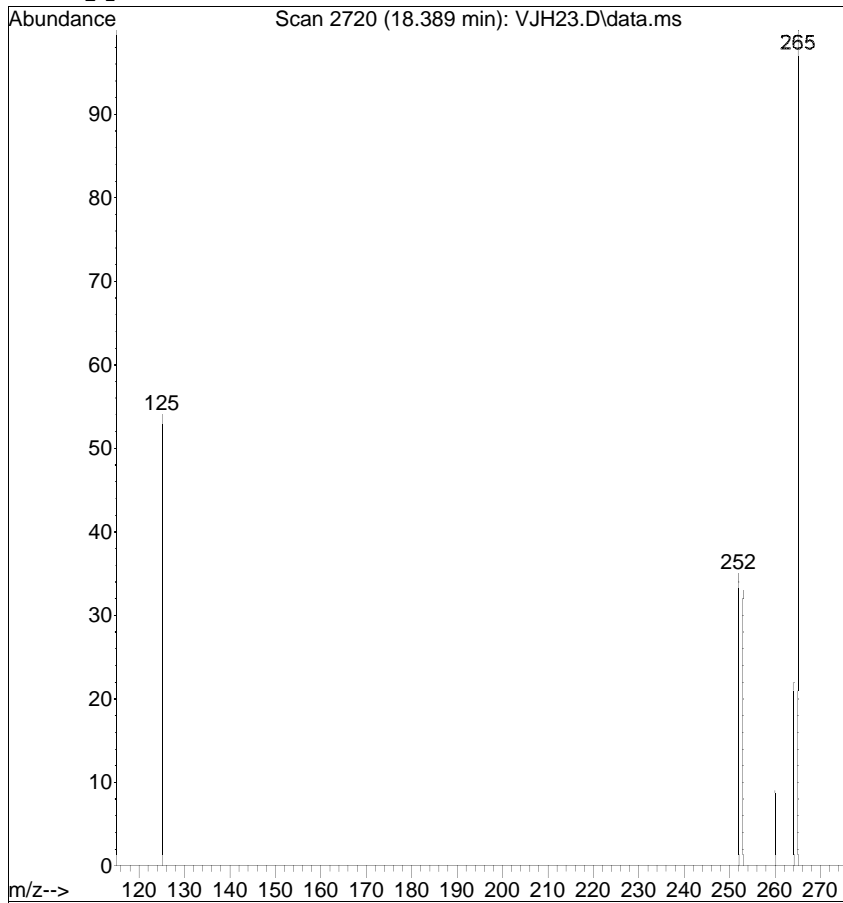
Tgt Ion	Ratio	Lower	Upper
252	100		
253	141.2	1.1	41.1#
125	219.0	0.0	21.1#



Ref

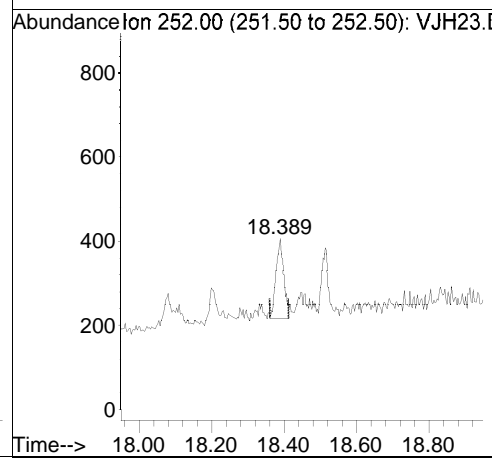


Raw

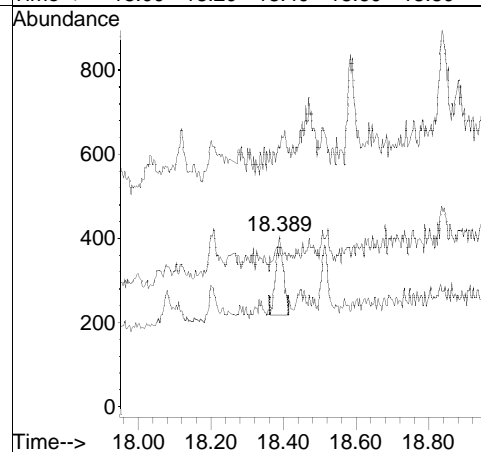
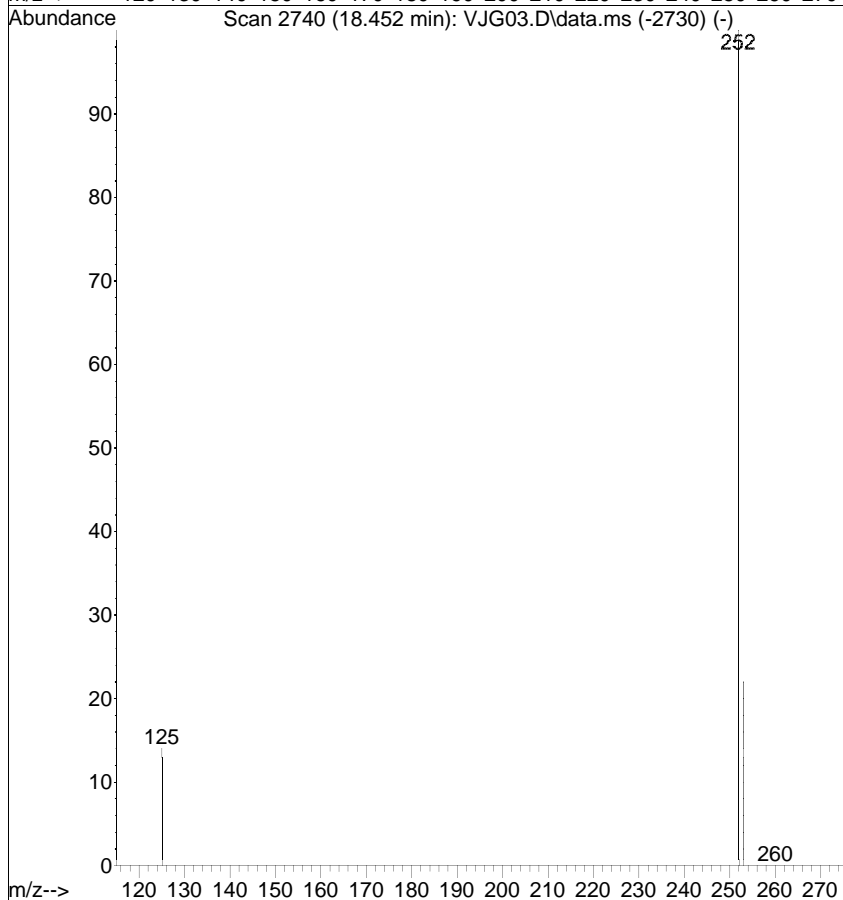


#26
 Benzo(a)pyrene
 Concen: 0.0051 ug/mL
 RT: 18.389 min Scan# 2720
 Delta R.T. -0.063 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

Tgt Ion	Resp	Lower	Upper
252	100		
253	93.8	3.4	43.4#
125	151.0	0.0	20.9#

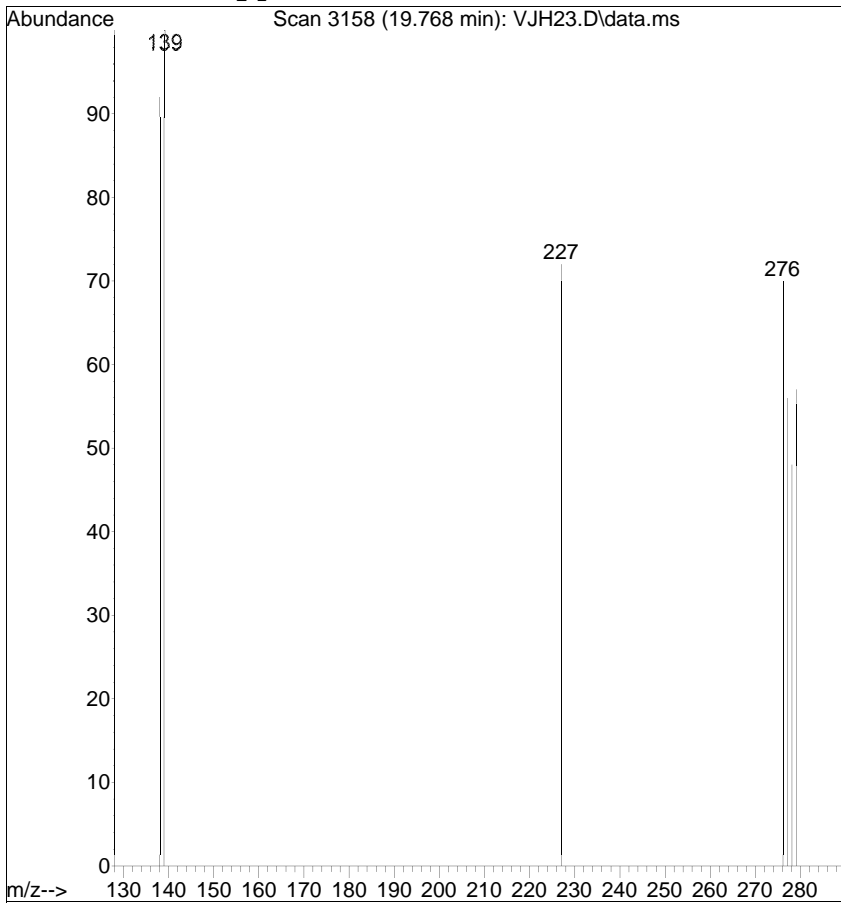


Ref



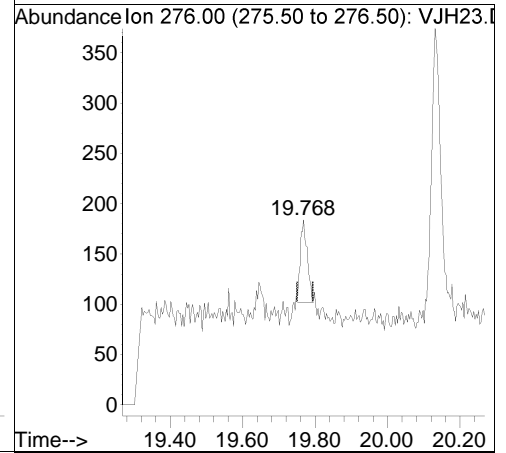
[Indeno(1,2,3-cd)pyrene; <RL; u]

Raw

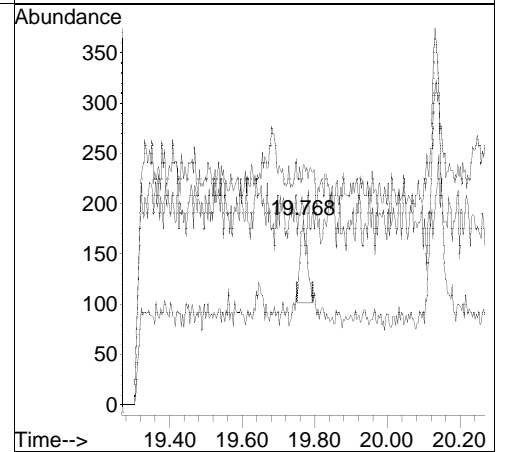
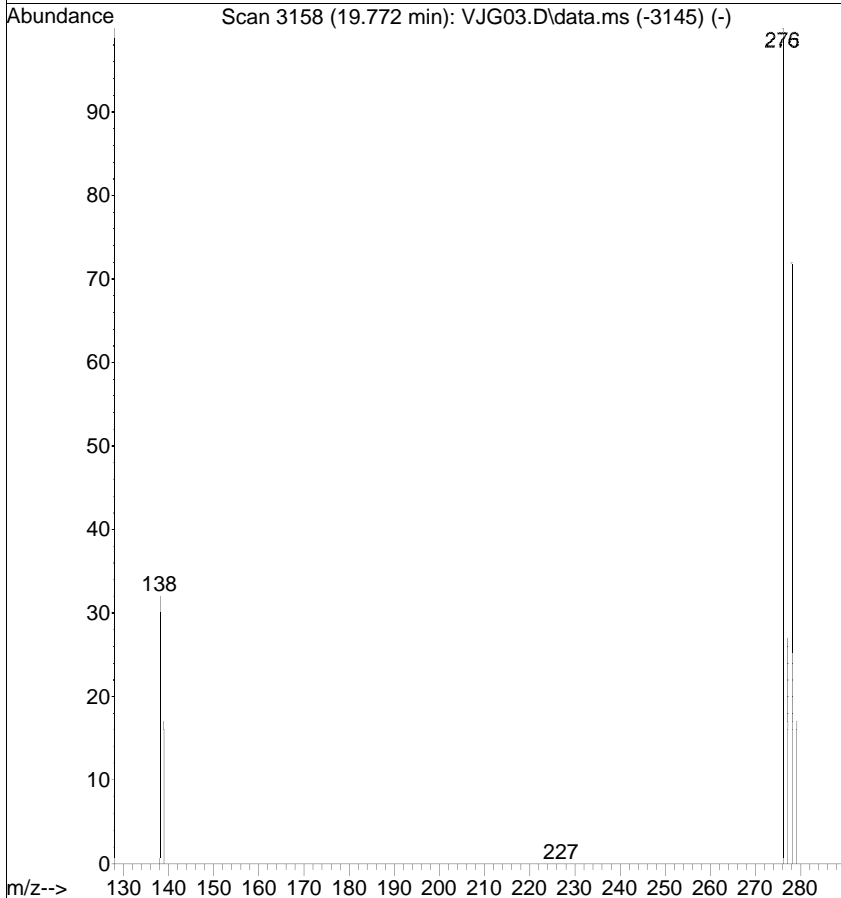


#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.0020 ug/mL
 RT: 19.768 min Scan# 3158
 Delta R.T. -0.004 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

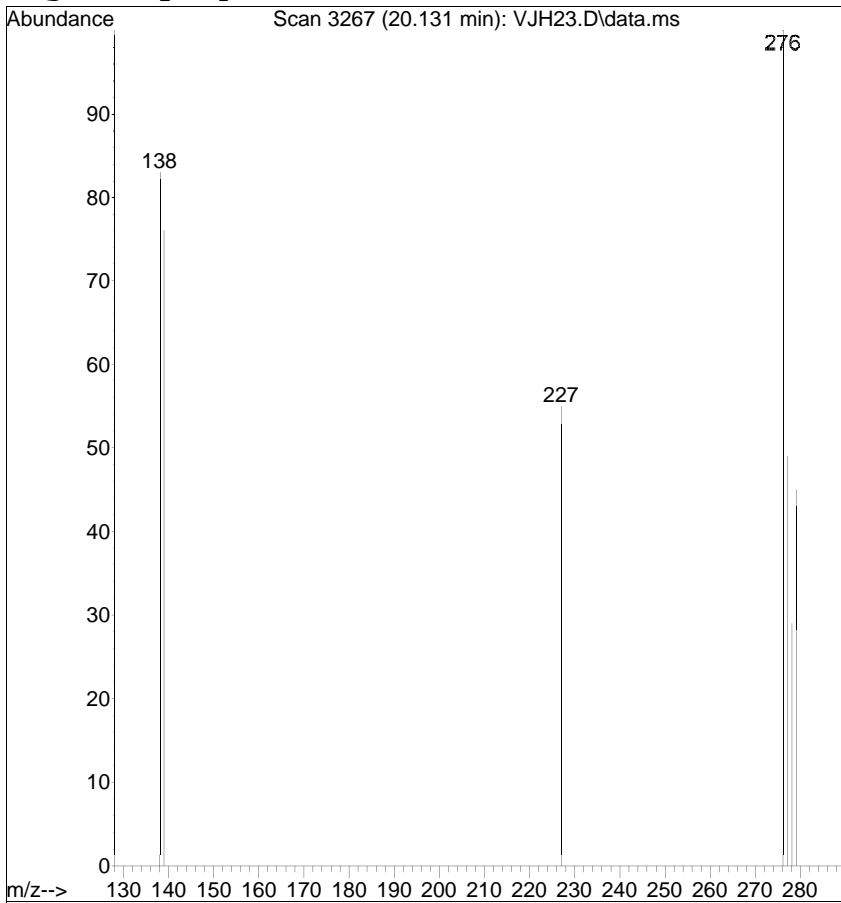
Tgt Ion	Ratio	Lower	Upper
276	100		
138	129.9	0.0	23.1#
227	101.6	0.0	21.0#



Ref

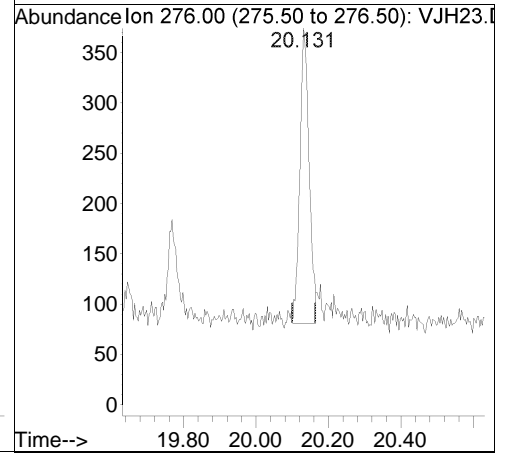


Raw

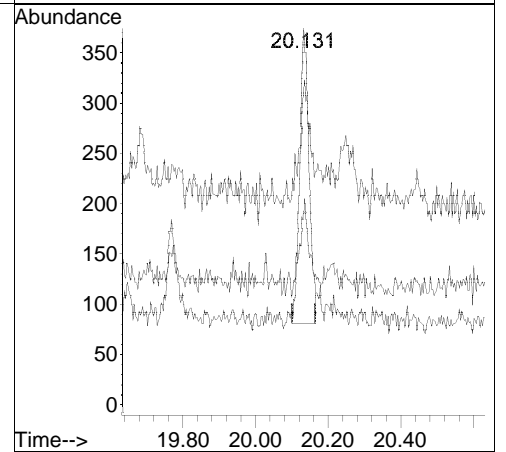
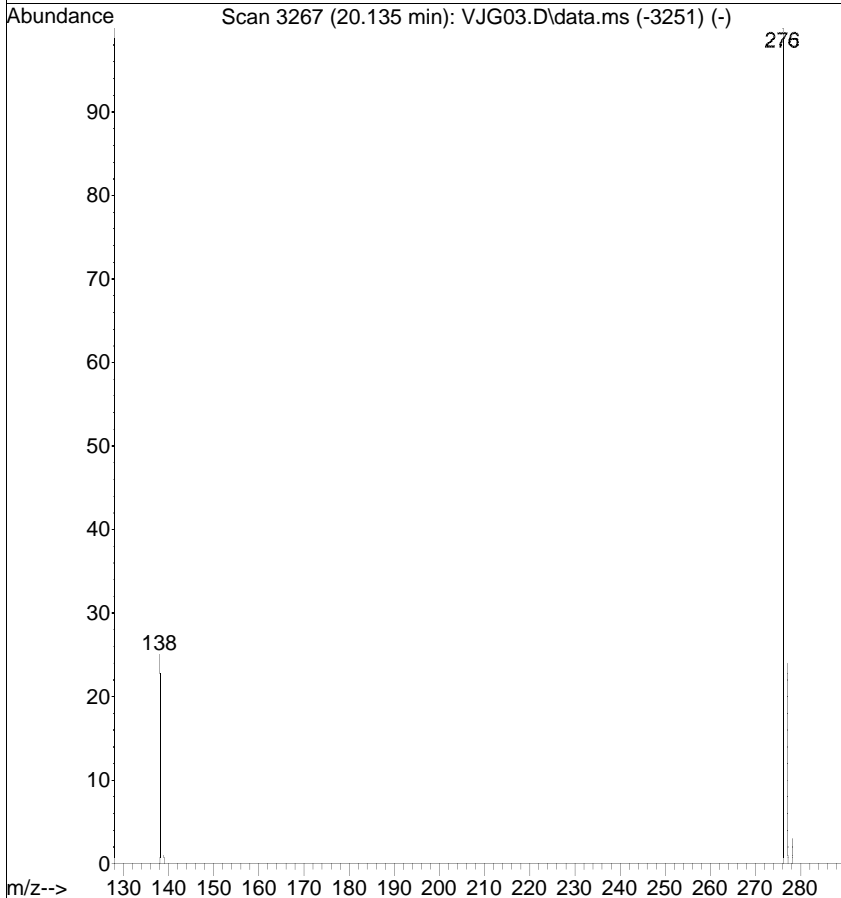


#29
 Benzo(g,h,i)perylene
 Concen: 0.0123 ug/mL
 RT: 20.131 min Scan# 3267
 Delta R.T. -0.004 min
 Lab File: VJH23.D
 Acq: 17 Oct 2018 9:17 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	82.9	0.0	22.1#
277	49.2	2.5	42.5#



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 303845-003 Client ID : BR11-1GW03
 Seqnum : 528419614004 Matrix : Water Acct : TRC-SF (MJD)
 File : vji04 Batch : 264323 Time : 18-OCT-2018 10:53
 Cal : 528398235001 Caldate : 03-OCT-2018
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1050.00 mL --> 1.0 ml = 0.0009524 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.009500	ND	0.1		u
Acenaphthylene	0.01300	ND	0.1		u
Acenaphthene	0.003400	ND	0.1		u
Fluorene	0.002100	ND	0.1		u
Phenanthrene	0.002700	ND	0.1		u
Anthracene	0.002700	ND	0.1		u
Fluoranthene	0.003200	ND	0.1		u
Pyrene	0.007700	ND	0.1		u
Benzo(a)anthracene	0.002700	ND	0.1		u
Chrysene	0.002800	ND	0.1		u
Benzo(b)fluoranthene	0.001300	ND	0.1		u
Benzo(k)fluoranthene	0.001300	ND	0.1		u
Benzo(a)pyrene	0.001900	ND	0.1		u
Indeno(1,2,3-cd)pyrene	0.005800	ND	0.1		u
Dibenz(a,h)anthracene	0	ND	0.1		u
Benzo(g,h,i)perylene	0.007400	ND	0.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	1.042	0.9524	0.9922	104	48-124	c+ u
2-Fluorobiphenyl	0.7768	0.9524	0.7398	78	51-120	u
Terphenyl-d14	0.8018	0.9524	0.7636	80	25-120	u

ISTD (CCV vji03)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	86295	105029	21.71	9.04	9.04	0.00
Acenaphthene-d10	51680	69870	35.20	11.35	11.35	0.00
Phenanthrene-d10	94015	129447	37.69	13.31	13.31	0.00
Chrysene-d12	81168	109643	35.08	16.78	16.77	-0.01
Perylene-d12	69253	97186	40.33	18.51	18.51	0.00

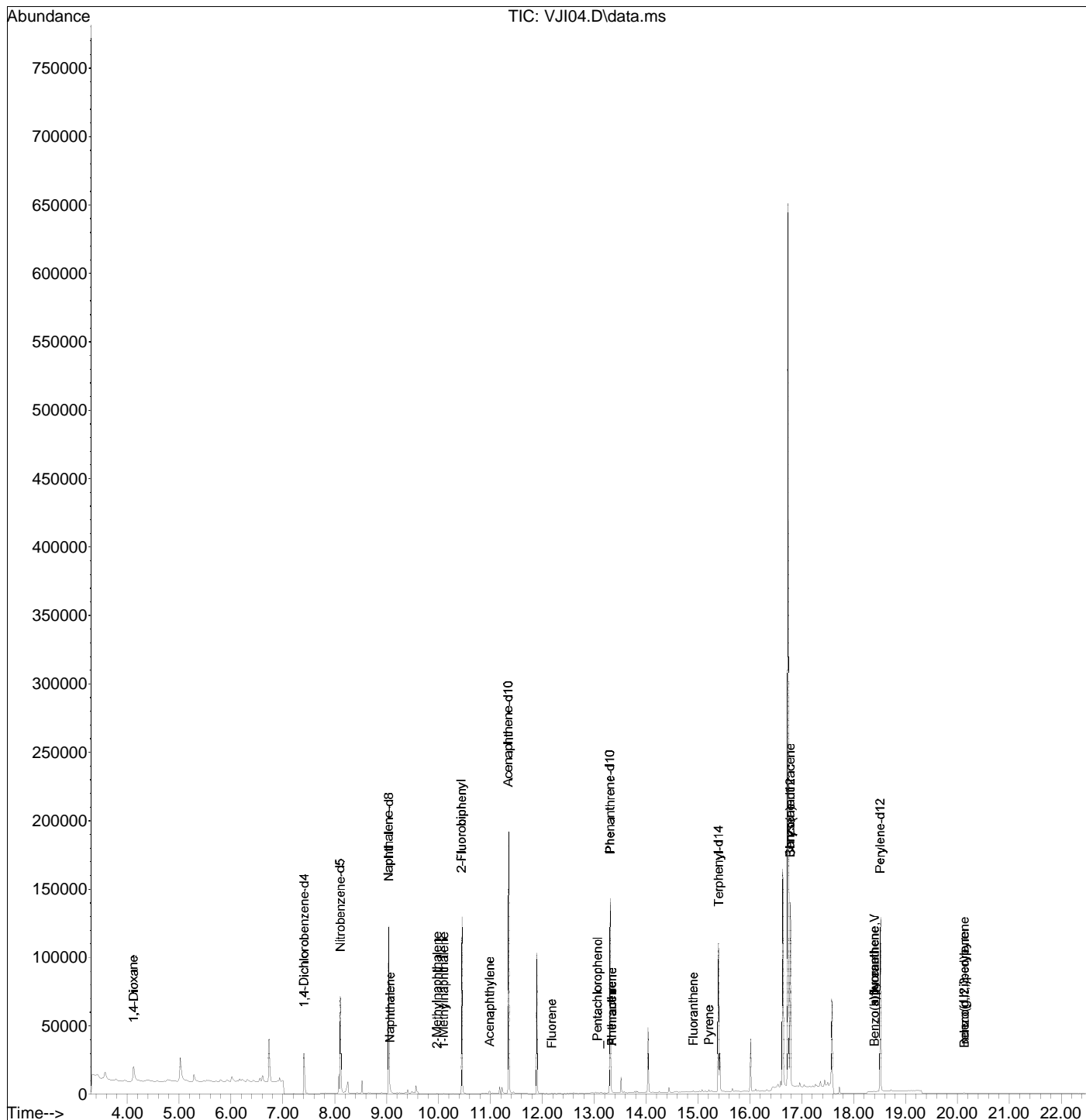
YW1 10/18/18 [Nitrobenzene-d5]: Recovery well within limits despite instrument bias

Analyst: YW1 Date: 10/18/18 Reviewer: LW Date: 10/18/18

+ = high bias c = CCV u = use

Data Path : G:\csinput.net\DATA\101818\
 Data File : VJI04.D
 Acq On : 18 Oct 2018 10:53 am
 Operator :
 Sample : S,303845-003
 Misc : 264323,1,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 18 11:16:39 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101818\
 Data File : VJI04.D
 Acq On : 18 Oct 2018 10:53 am
 Operator :
 Sample : S,303845-003
 Misc : 264323,1,
 ALS Vial : 4 Sample Multiplier: 1

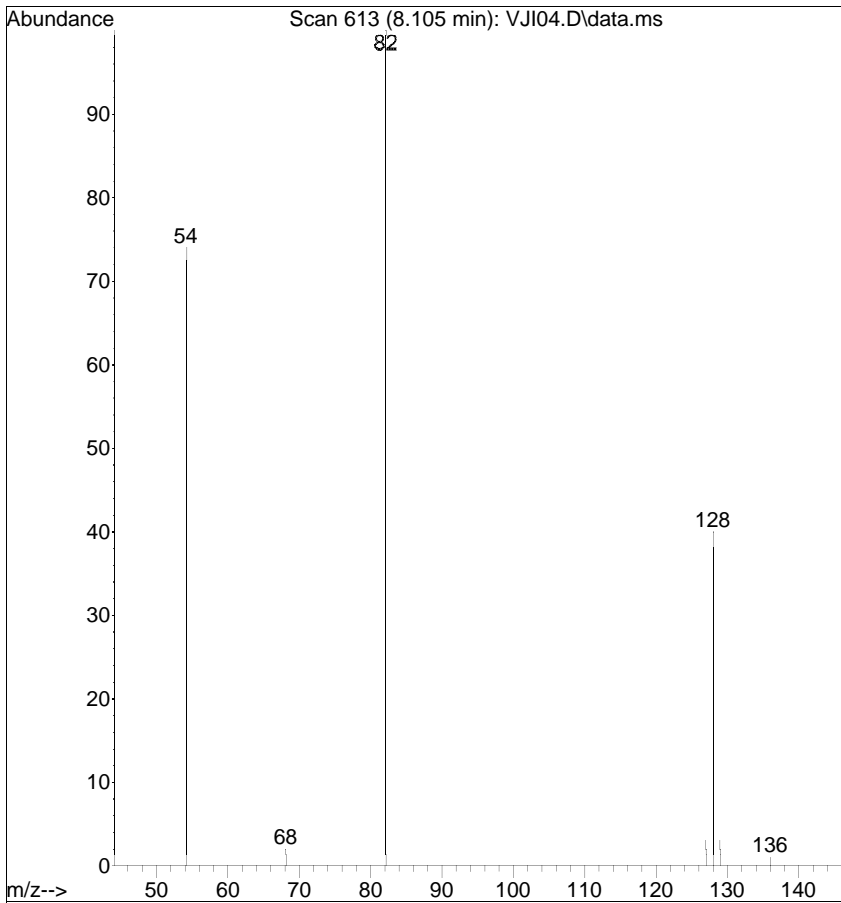
Quant Time: Oct 18 11:16:39 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.406	152	26273	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.038	136	105029	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.347	164	69870	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.306	188	129447	1.0000	ug/mL	0.00
18) Chrysene-d12	16.772	240	109643	1.0000	ug/mL	0.00
23) Perylene-d12	18.510	264	97186	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	4.123	88	472	0.0391	ug/mL	# 1
4) Nitrobenzene-d5	8.105	82	34861	1.0418	ug/mL	93
5) Naphthalene	9.066	128	1006	0.0095	ug/mL	78
6) 2-Methylnaphthalene	9.969	142	338	0.0042	ug/mL	87
7) 1-Methylnaphthalene	10.101	142	275	0.0037	ug/mL	88
9) 2-Fluorobiphenyl	10.446	172	88516	0.7768	ug/mL	93
10) Acenaphthylene	10.985	152	1598	0.0130	ug/mL	94
11) Acenaphthene	11.347	154	259	0.0034	ug/mL	# 34
12) Fluorene	12.182	166	199	0.0021	ug/mL	# 54
14) _Pentachlorophenol	13.063	266	126	0.0971	ug/mL	# 74
15) Phenanthrene	13.335	178	359	0.0027	ug/mL	# 64
16) Anthracene	13.335	178	359	0.0027	ug/mL	# 65
17) Fluoranthene	14.906	202	506	0.0032	ug/mL	# 63
19) Pyrene	15.207	202	1173	0.0077	ug/mL	83
20) Terphenyl-d14	15.393	244	100043	0.8018	ug/mL	89
21) Benzo(a)anthracene	16.772	228	380	0.0027	ug/mL	# 72
22) Chrysene	16.772	228	380	0.0028	ug/mL	# 70
24) Benzo(b)fluoranthene	18.393	252	167	0.0013	ug/mL	# 1
25) Benzo(k)fluoranthene	18.393	252	167	0.0013	ug/mL	# 1
26) Benzo(a)pyrene	18.393	252	211	0.0019	ug/mL	# 1
27) Indeno(1,2,3-cd)pyrene	20.127	276	635	0.0058	ug/mL	# 1
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
29) Benzo(g,h,i)perylene	20.127	276	635	0.0074	ug/mL	# 63

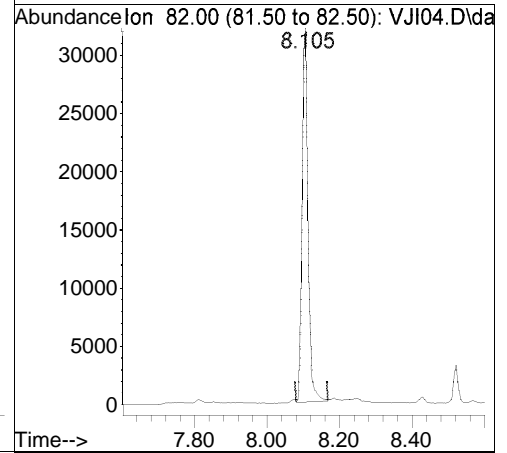
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

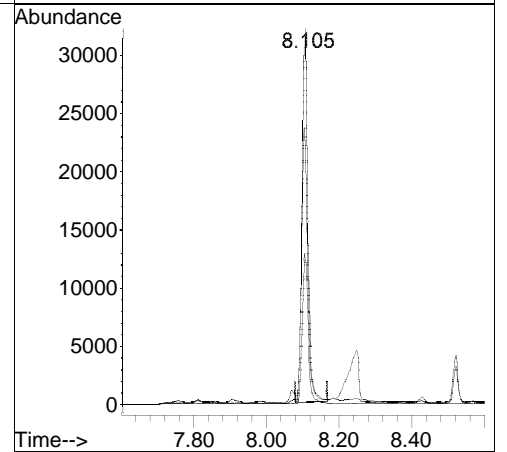
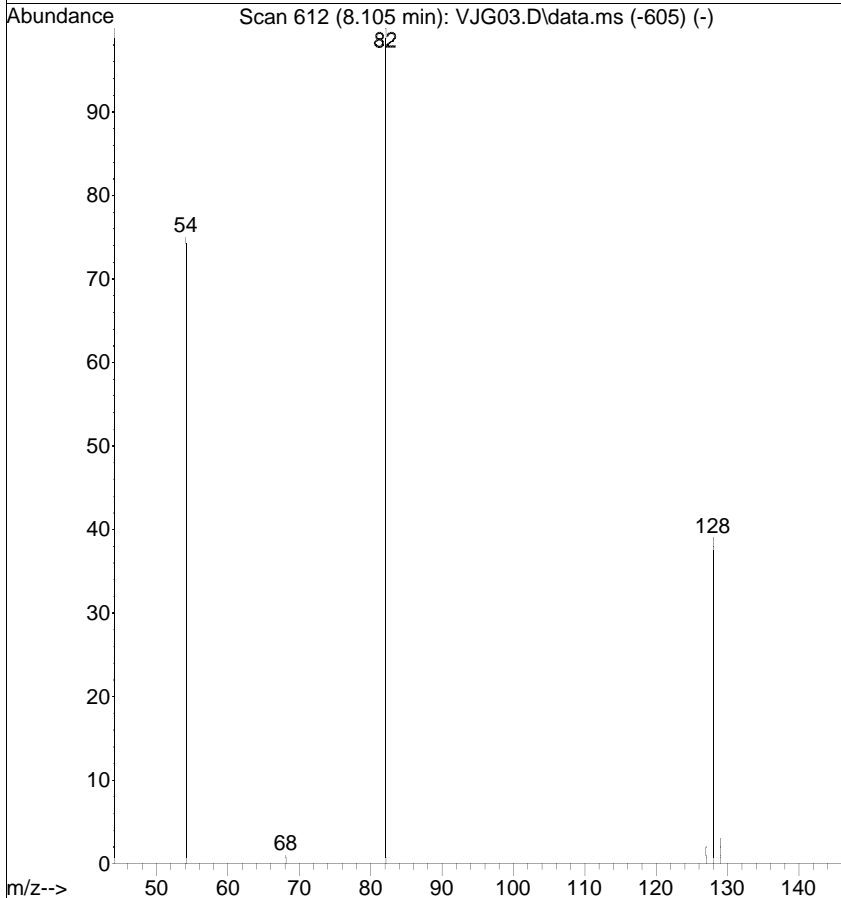


#4
 Nitrobenzene-d5
 Concen: 1.0418 ug/mL
 RT: 8.105 min Scan# 613
 Delta R.T. 0.000 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

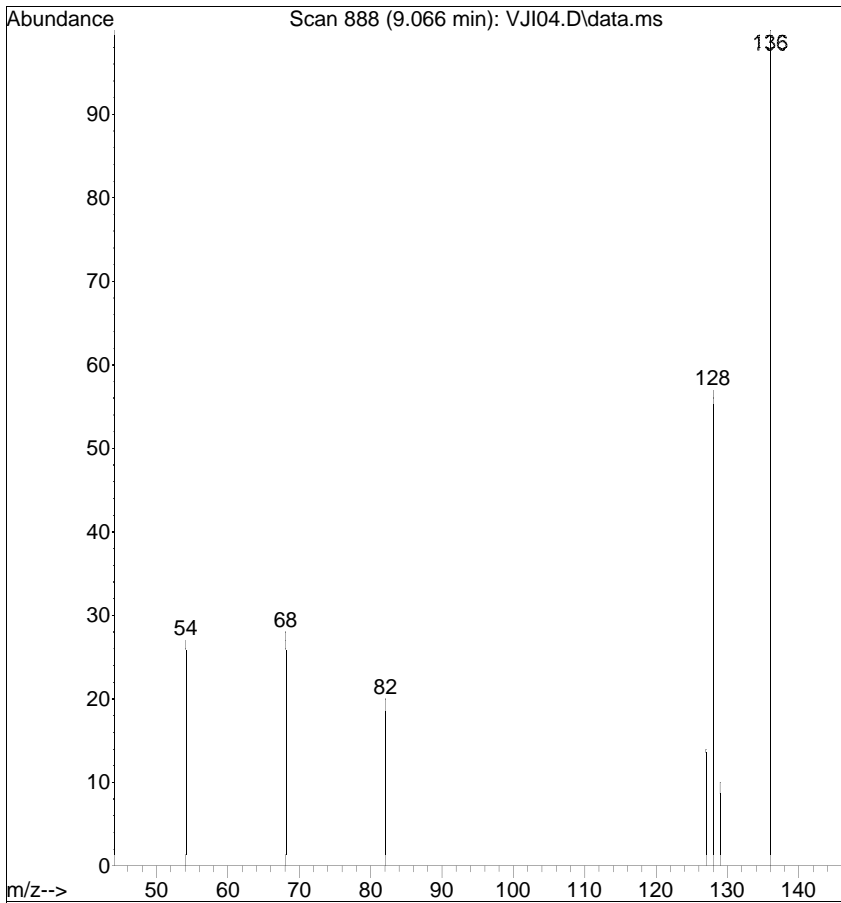
Tgt Ion	Resp	Lower	Upper
82	34861		
128	40.3	10.5	50.5
54	73.8	56.2	96.2



Ref

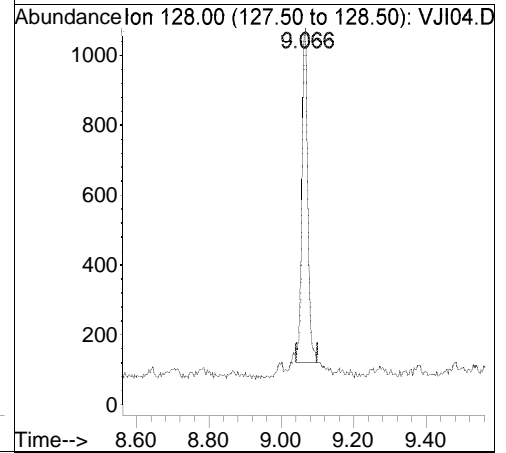


Raw

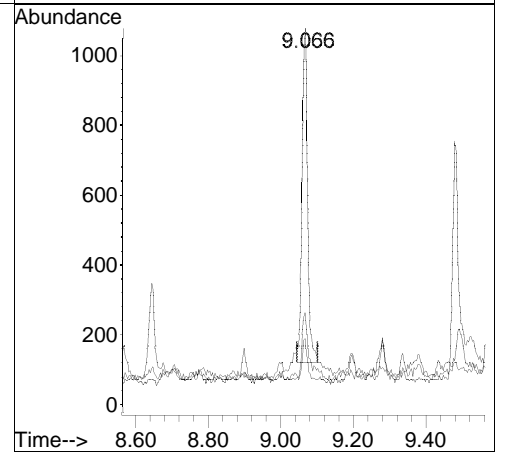
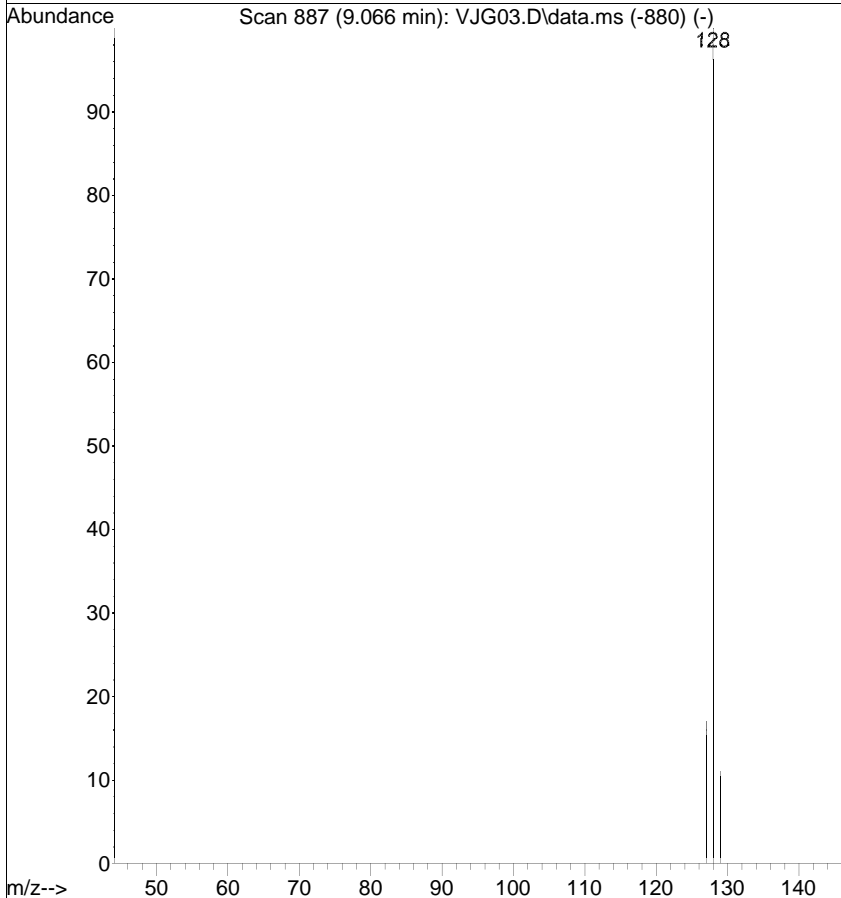


#5
 Naphthalene
 Concen: 0.0095 ug/mL
 RT: 9.066 min Scan# 888
 Delta R.T. 0.000 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

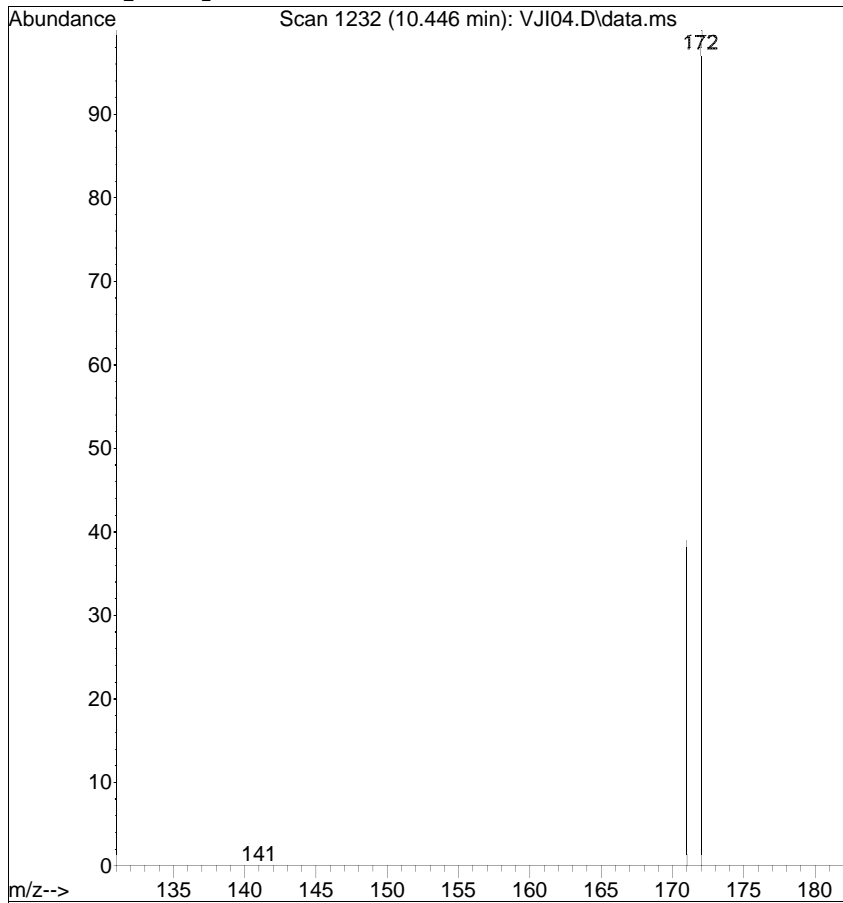
Tgt Ion	Resp	Lower	Upper
128	1006		
129	17.5	0.0	31.1
127	24.3	0.0	34.0



Ref

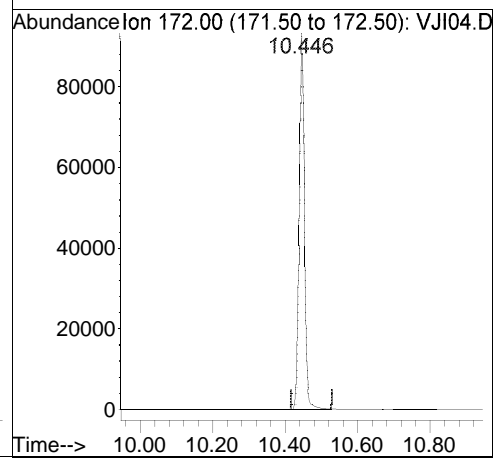


Raw

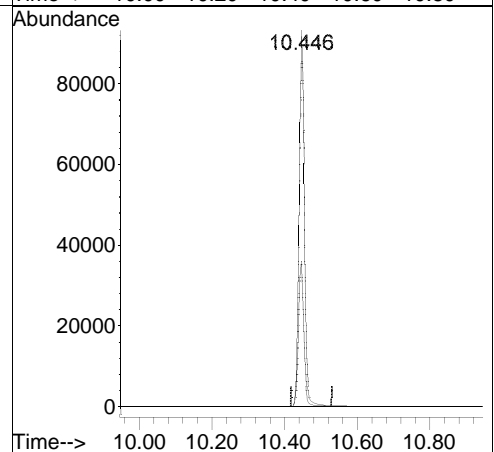
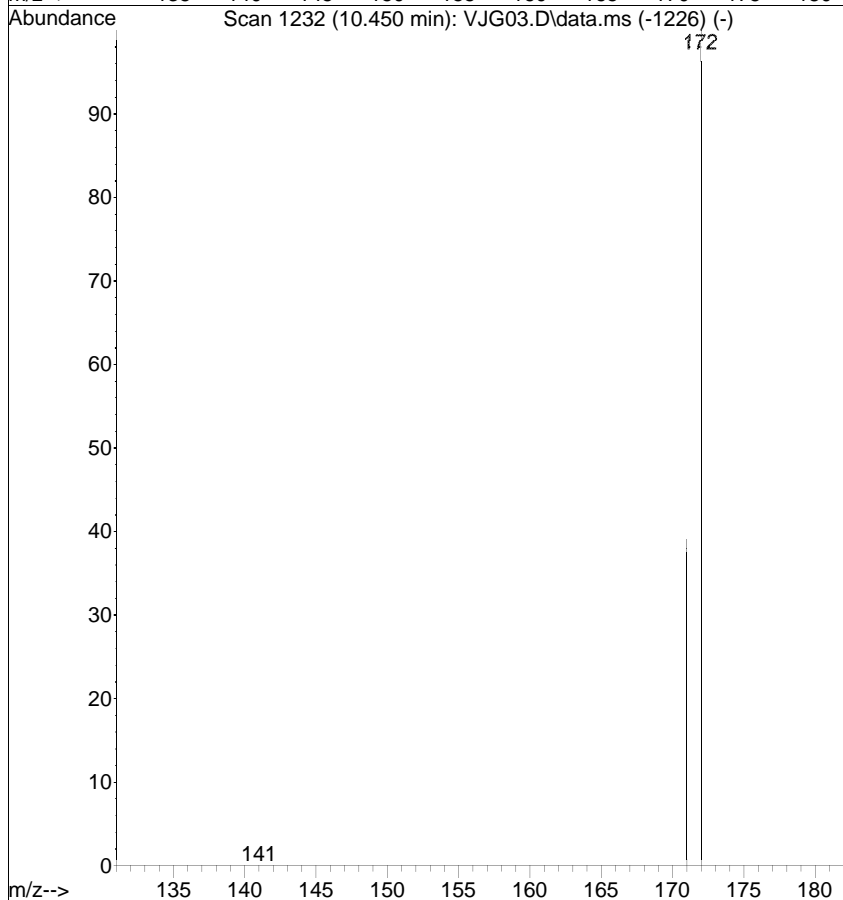


#9
2-Fluorobiphenyl
Concen: 0.7768 ug/mL
RT: 10.446 min Scan# 1232
Delta R.T. -0.004 min
Lab File: VJI04.D
Acq: 18 Oct 2018 10:53 am

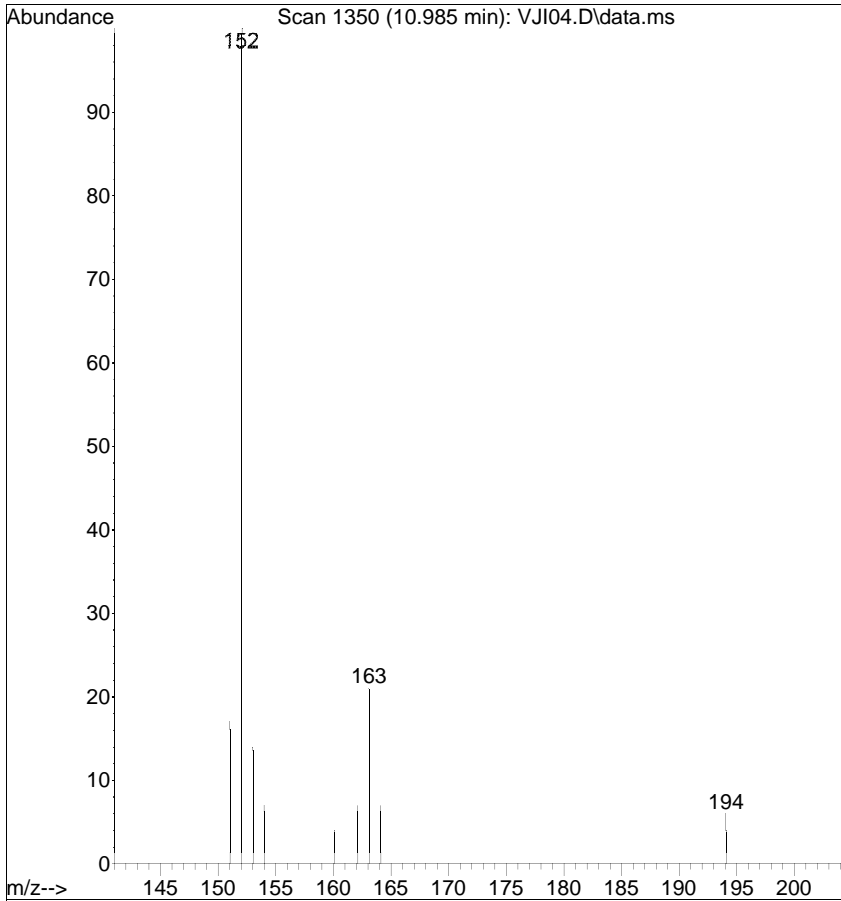
Tgt Ion	Resp	Lower	Upper
172	88516	100	
171	38.7	14.4	54.4



Ref

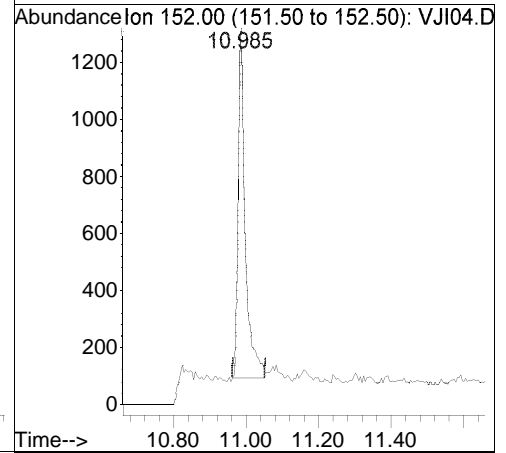


Raw

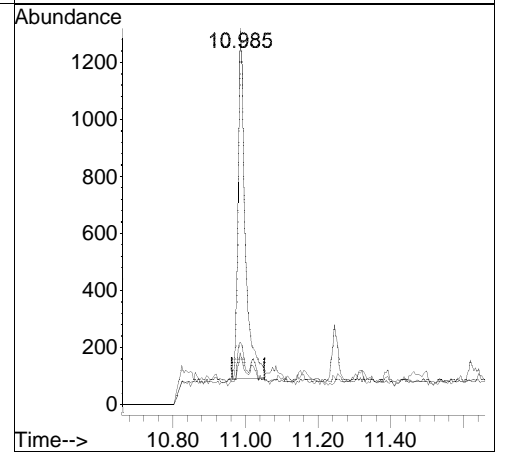
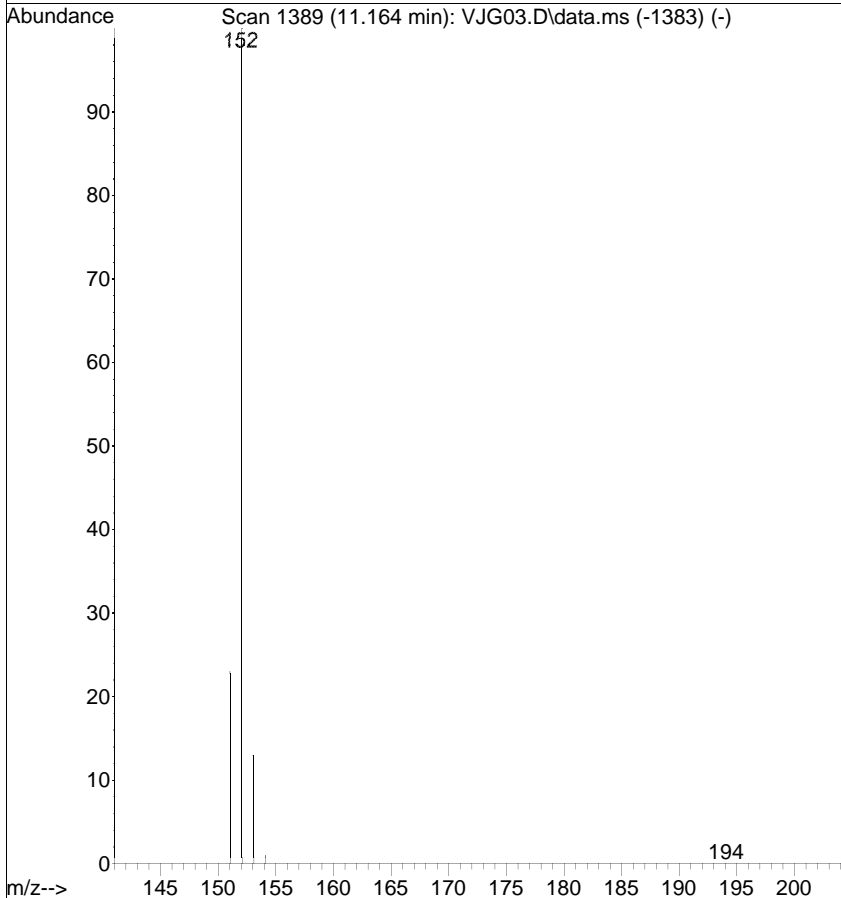


#10
 Acenaphthylene
 Concen: 0.0130 ug/mL
 RT: 10.985 min Scan# 1350
 Delta R.T. -0.178 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

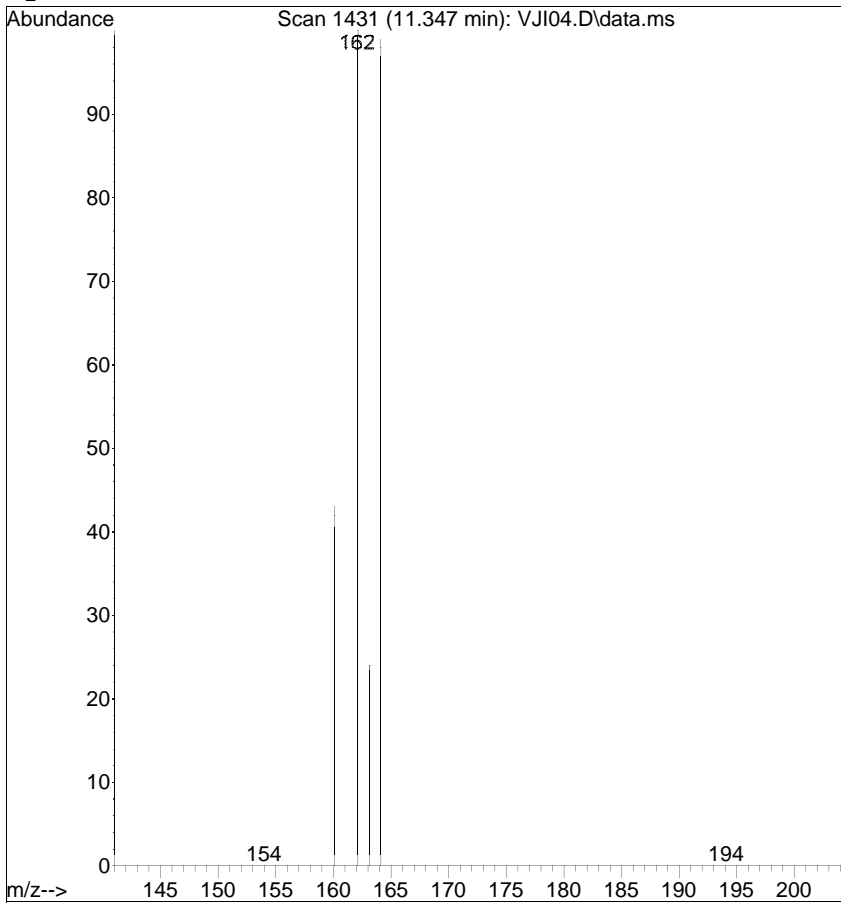
Tgt Ion	Resp	Lower	Upper
152	1598		
151	16.7	1.0	41.0
153	13.7	0.0	33.1



Ref

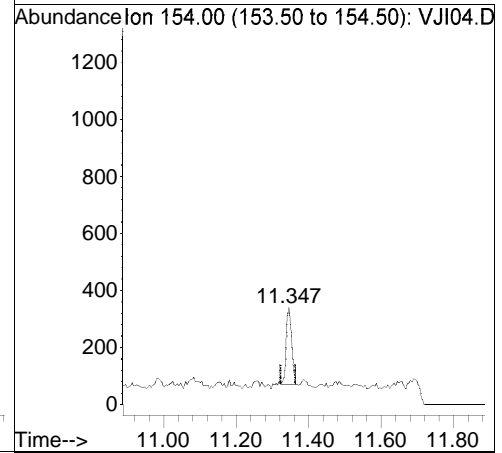


Raw

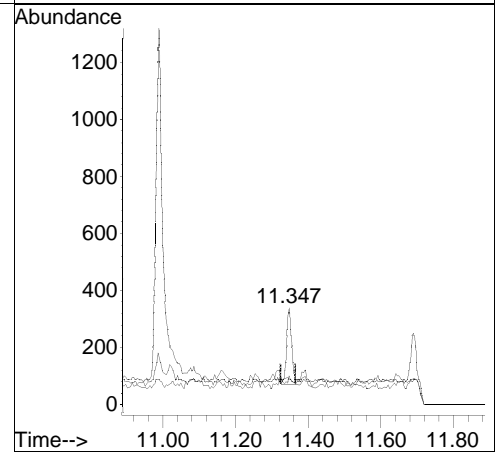
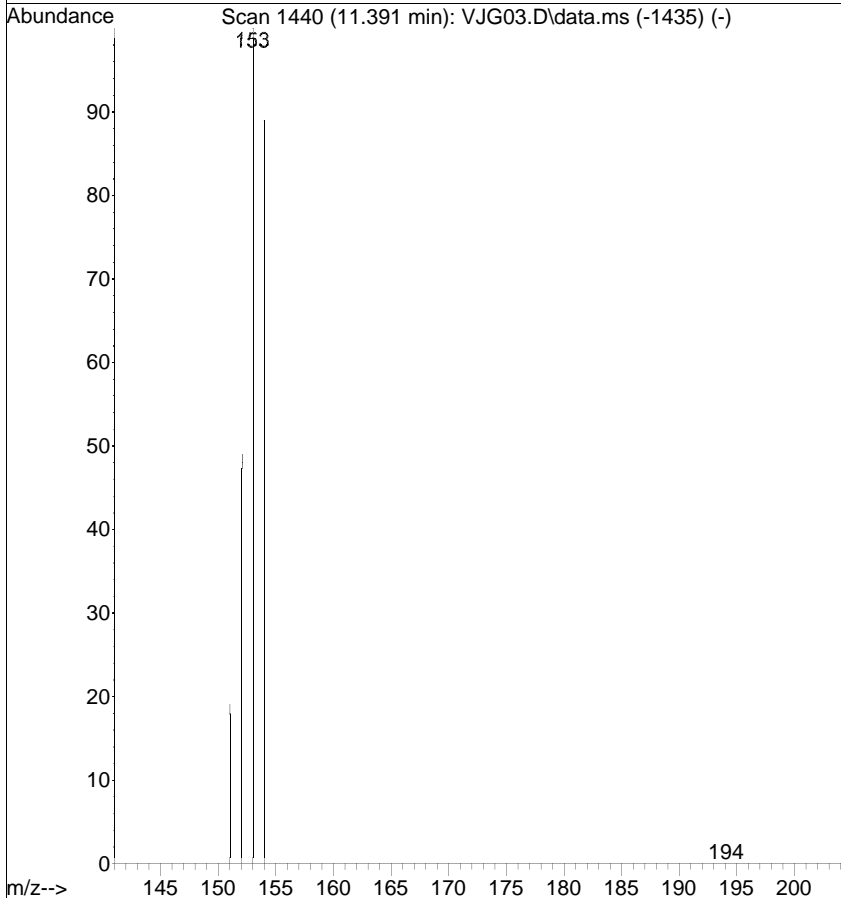


#11
 Acenaphthene
 Concen: 0.0034 ug/mL
 RT: 11.347 min Scan# 1431
 Delta R.T. -0.045 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

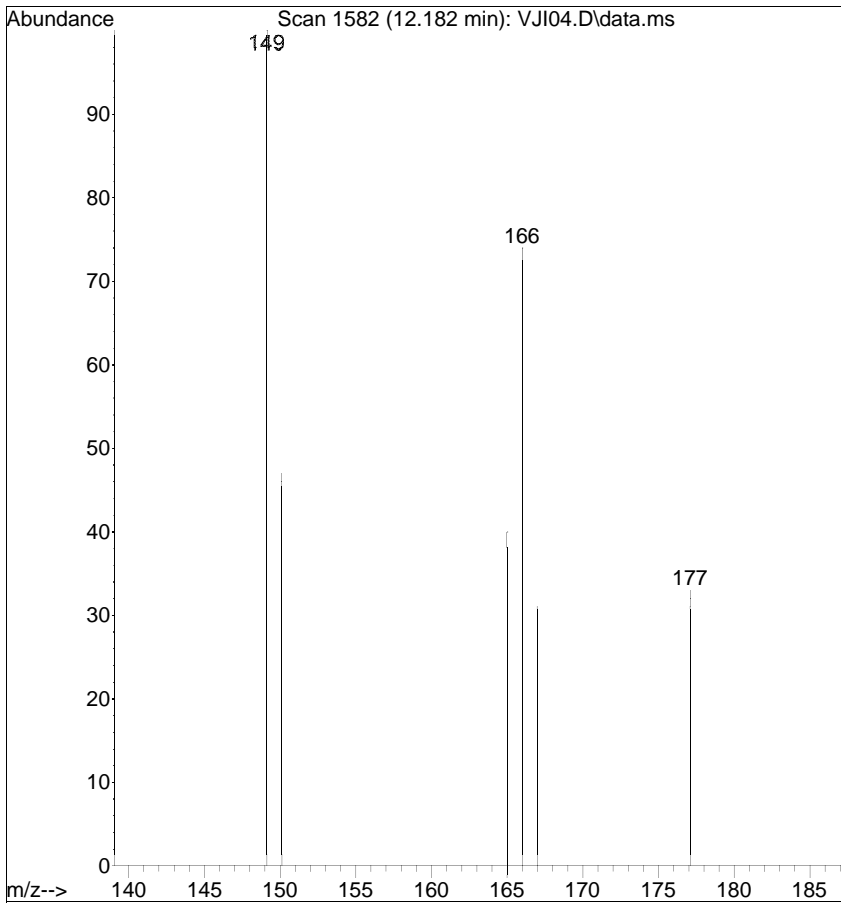
Tgt Ion	Resp	Lower	Upper
154	100		
152	27.4	35.4	75.4#
153	30.3	96.8	136.8#



Ref

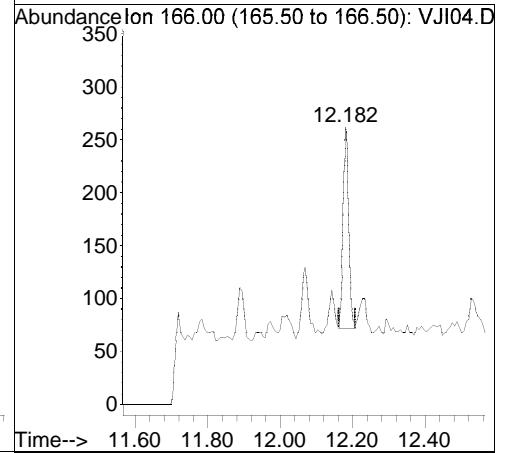


Raw

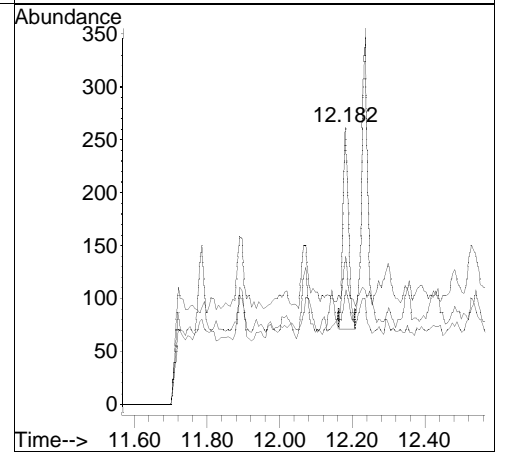
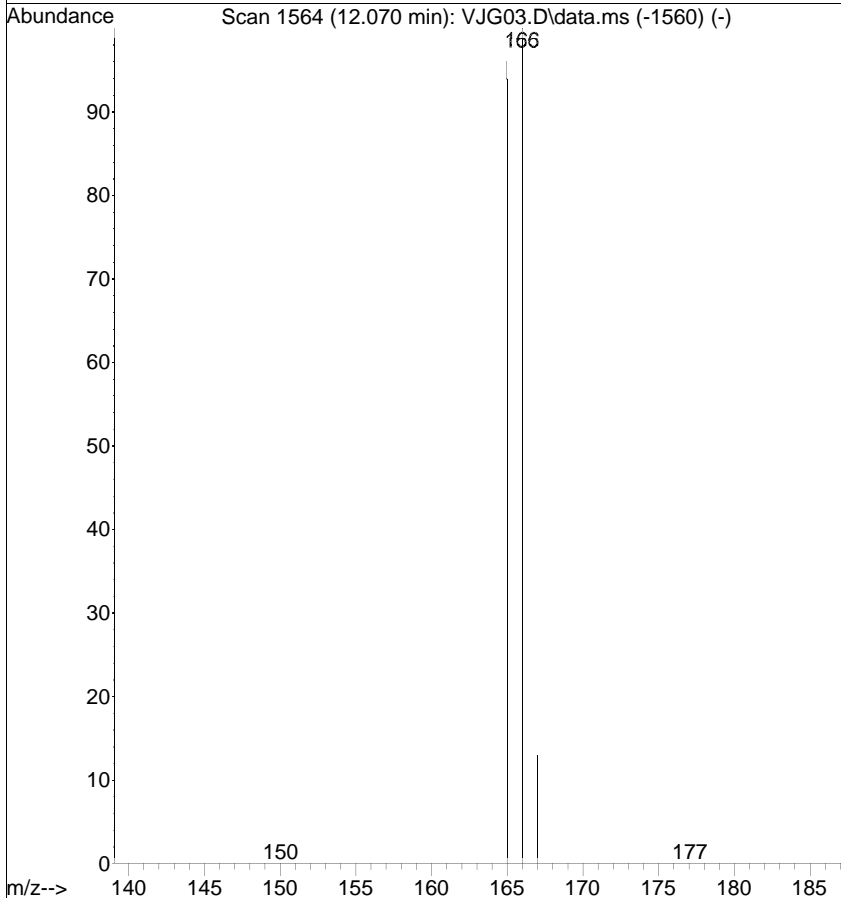


#12
 Fluorene
 Concen: 0.0021 ug/mL
 RT: 12.182 min Scan# 1582
 Delta R.T. 0.112 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

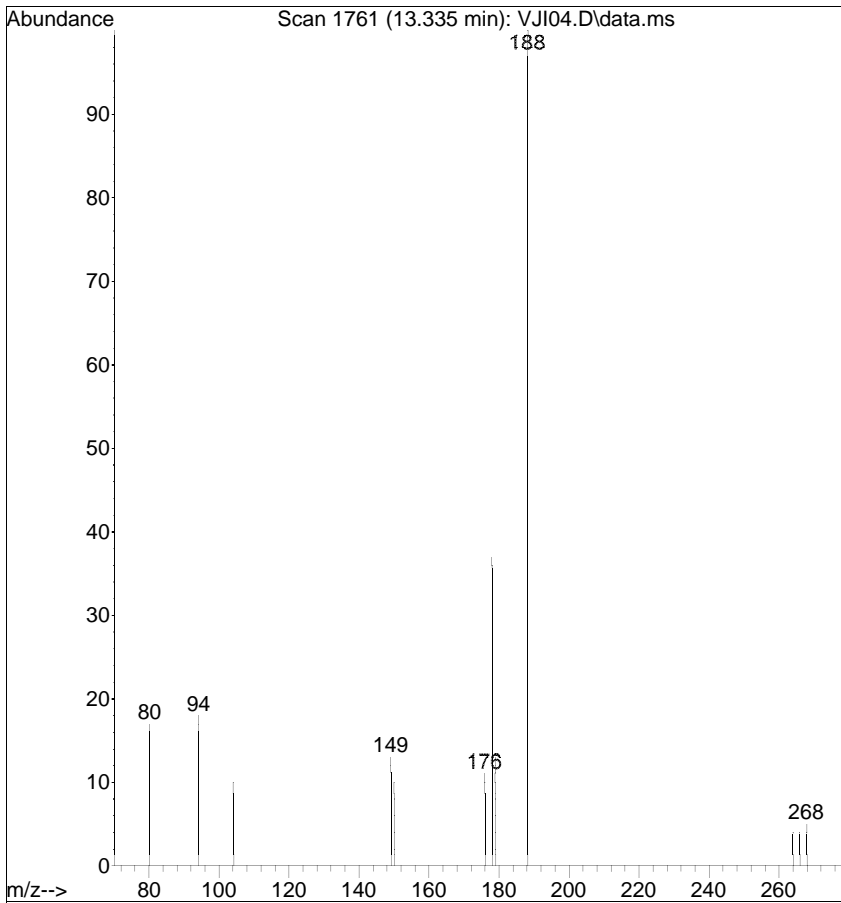
Tgt Ion	Resp	Lower	Upper
166	100		
165	53.4	74.9	114.9#
167	41.2	0.0	33.9#



Ref

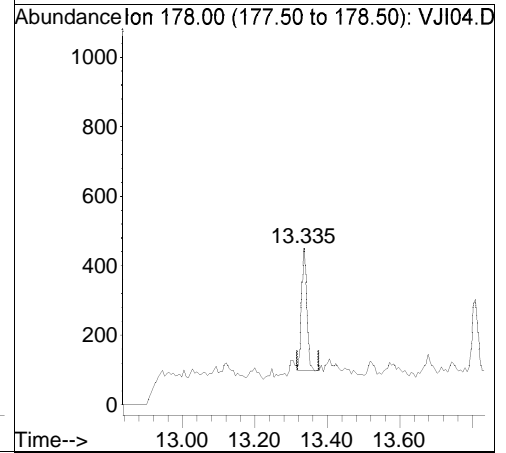


Raw

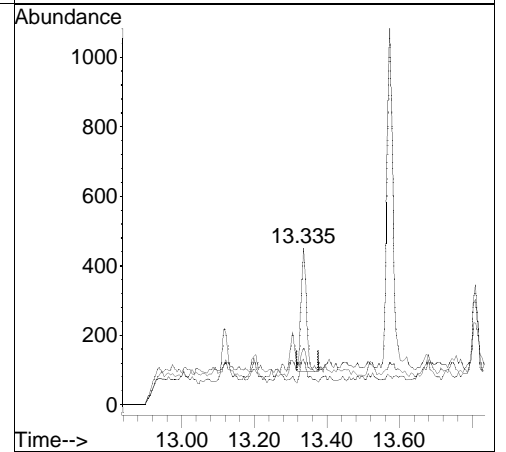
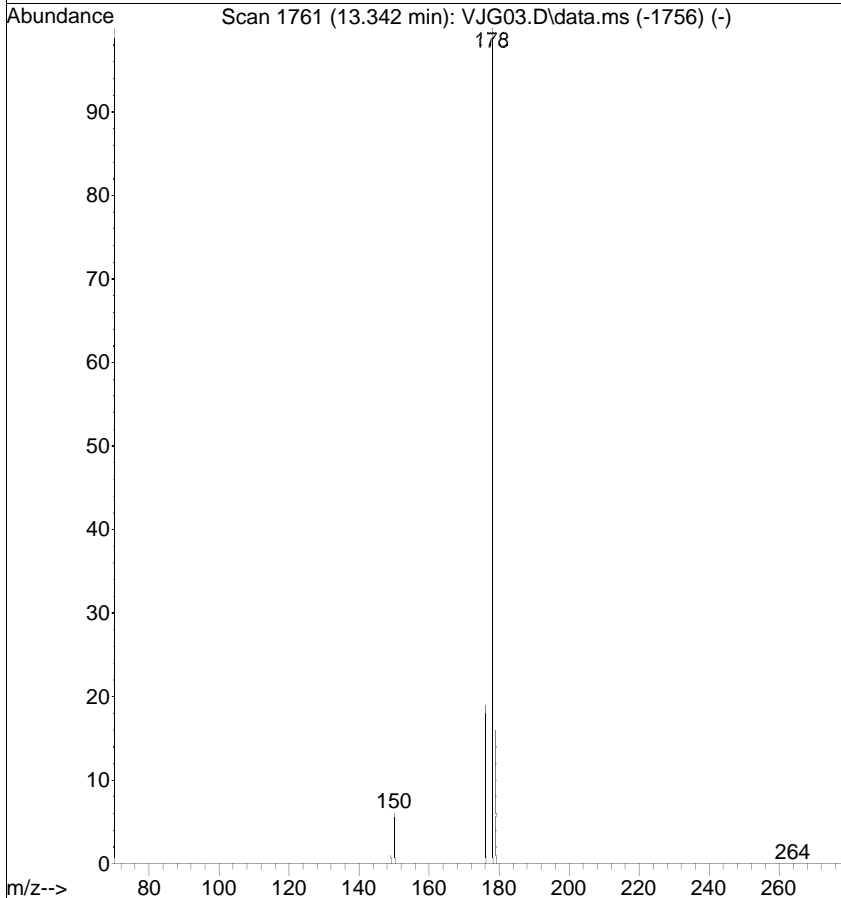


#15
 Phenanthrene
 Concen: 0.0027 ug/mL
 RT: 13.335 min Scan# 1761
 Delta R.T. -0.006 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

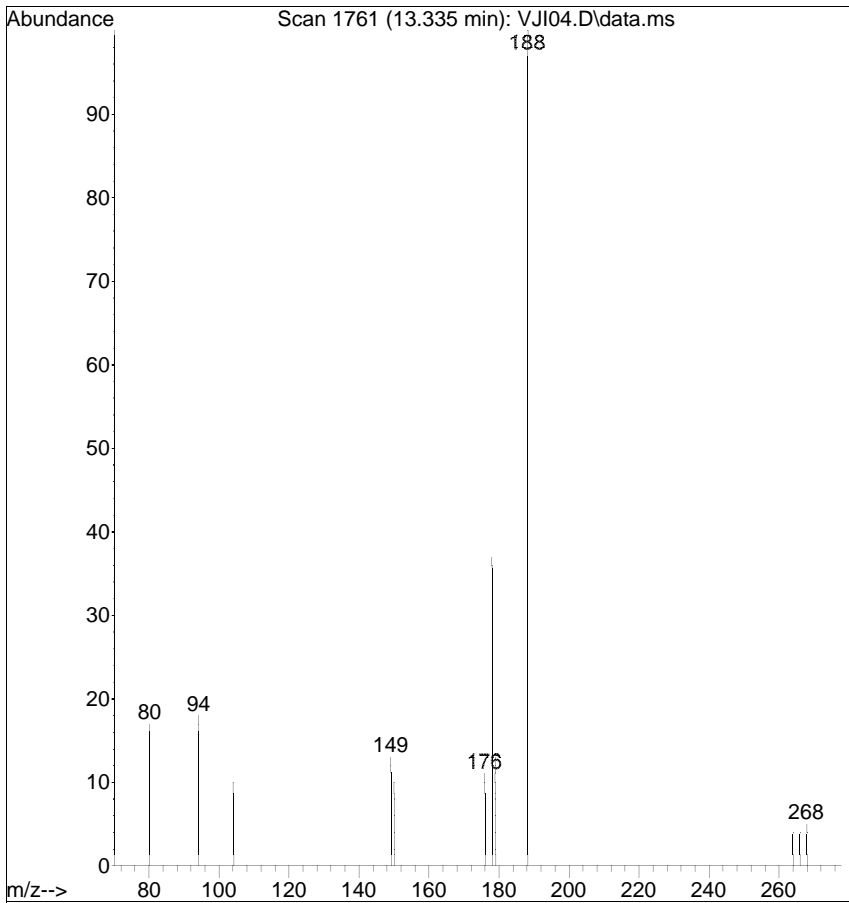
Tgt Ion	Resp	Lower	Upper
178	359		
179	36.2	0.0	35.0#
176	29.6	0.0	38.9



Ref

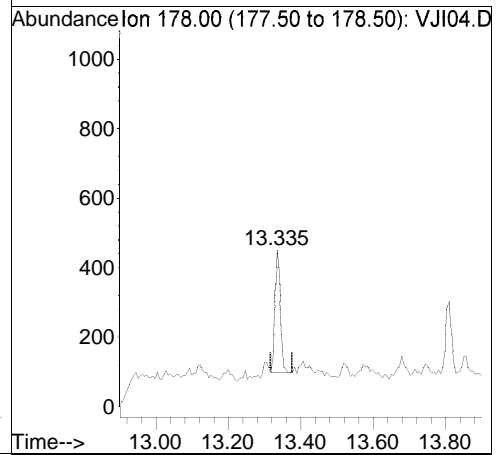


Raw

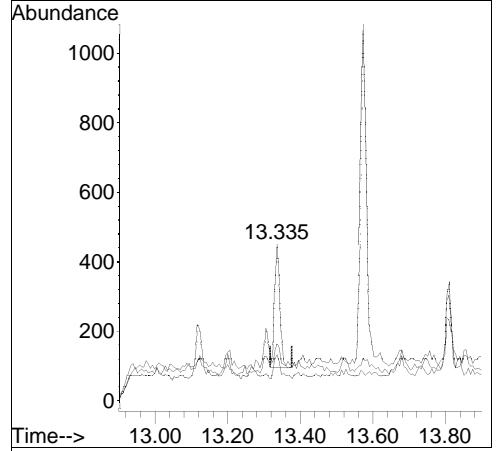
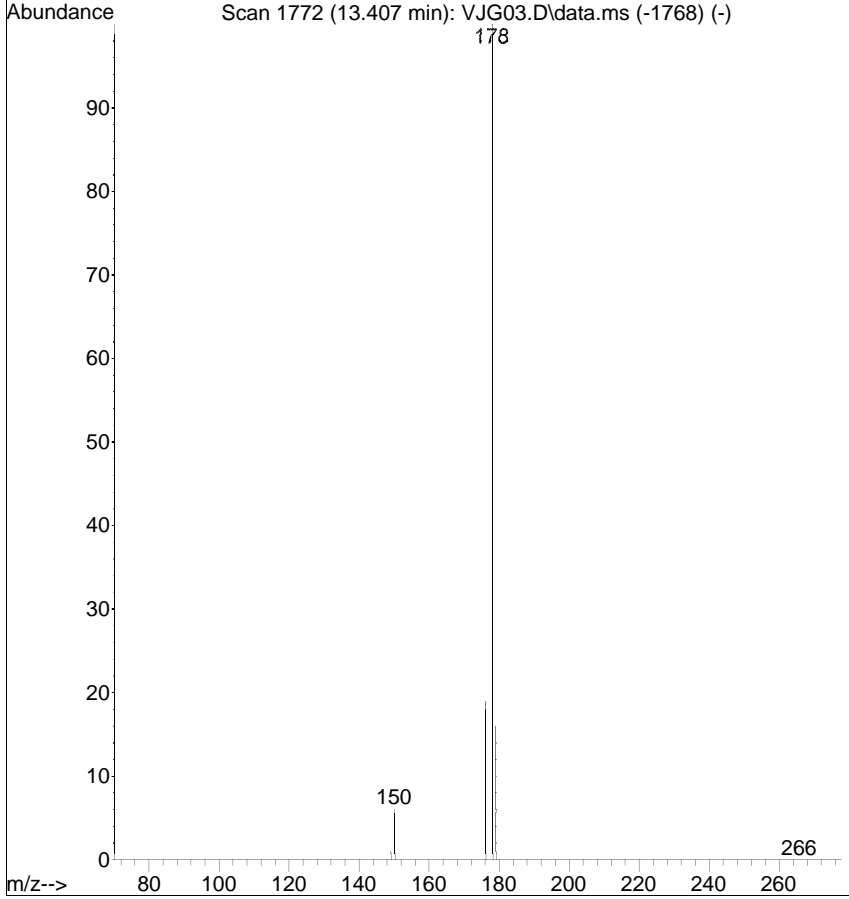


#16
 Anthracene
 Concen: 0.0027 ug/mL
 RT: 13.335 min Scan# 1761
 Delta R.T. -0.071 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

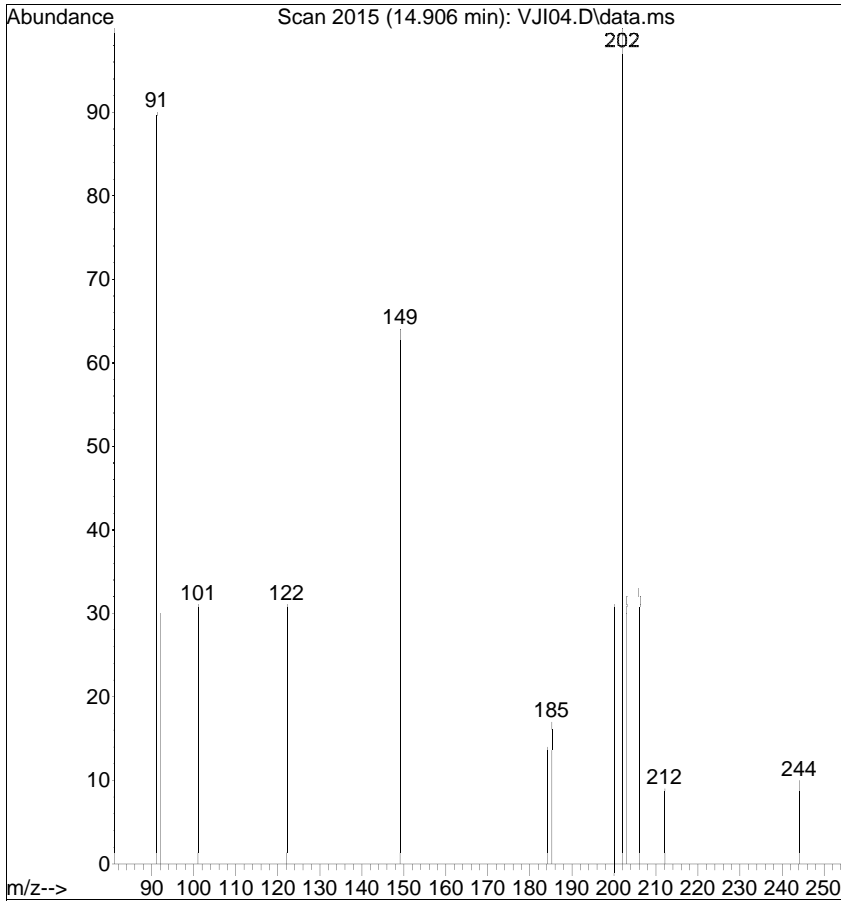
Tgt Ion	Resp	Lower	Upper
178	359		
178	100		
179	36.2	0.0	34.4#
176	29.6	0.0	39.5



Ref

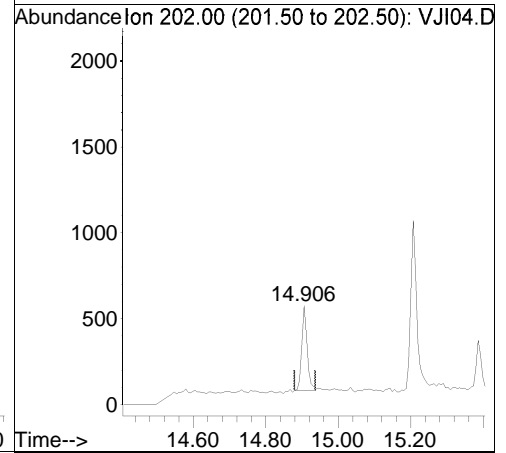


Raw

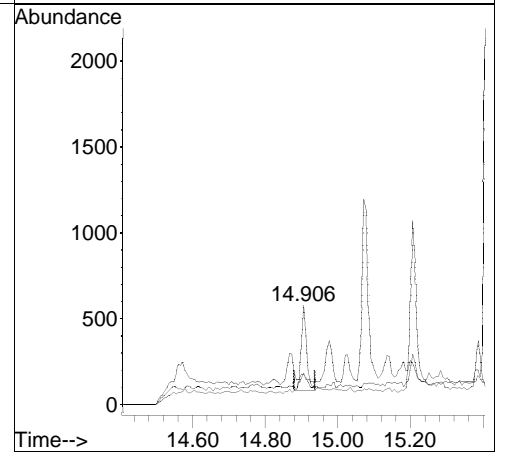
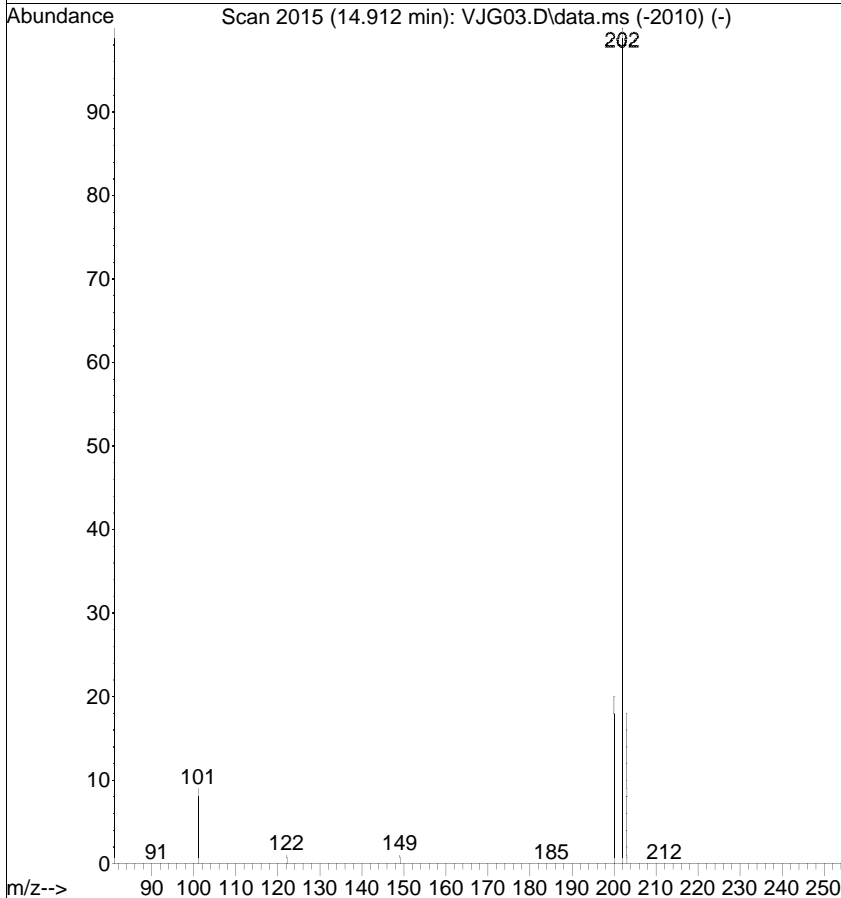


#17
 Fluoranthene
 Concen: 0.0032 ug/mL
 RT: 14.906 min Scan# 2015
 Delta R.T. -0.007 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

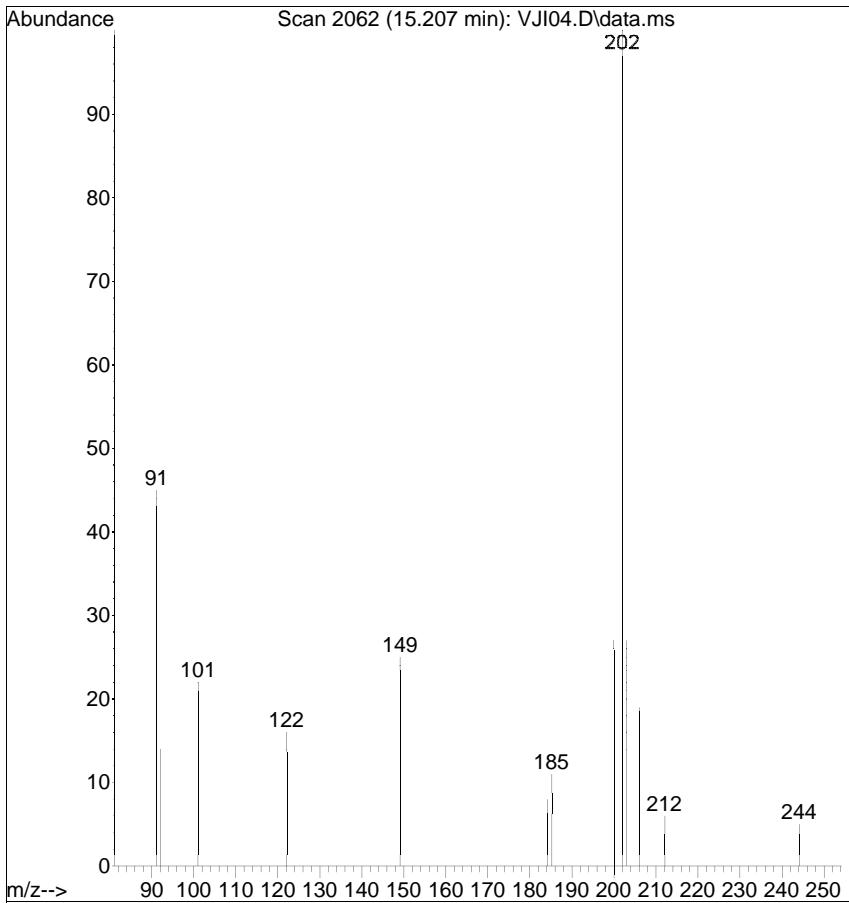
Tgt Ion	Ratio	Lower	Upper
202	100		
101	30.6	0.0	21.1#
203	32.2	0.0	37.0



Ref

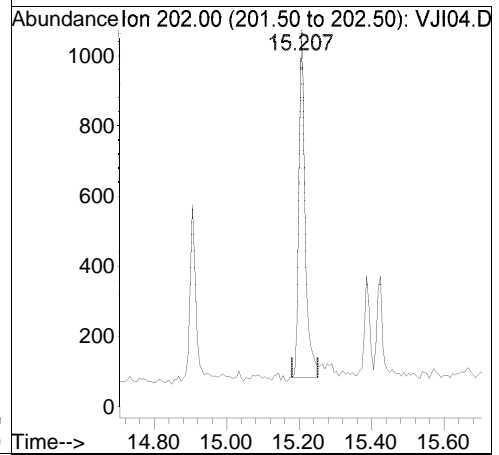


Raw

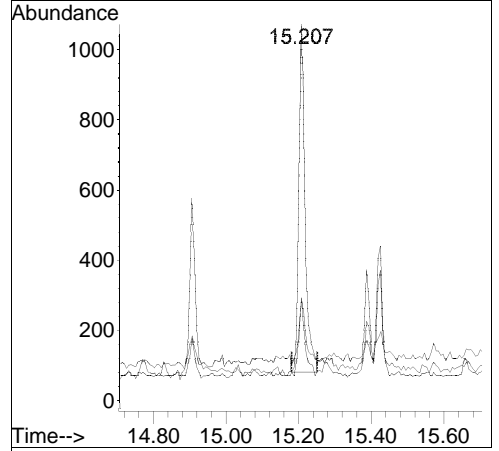
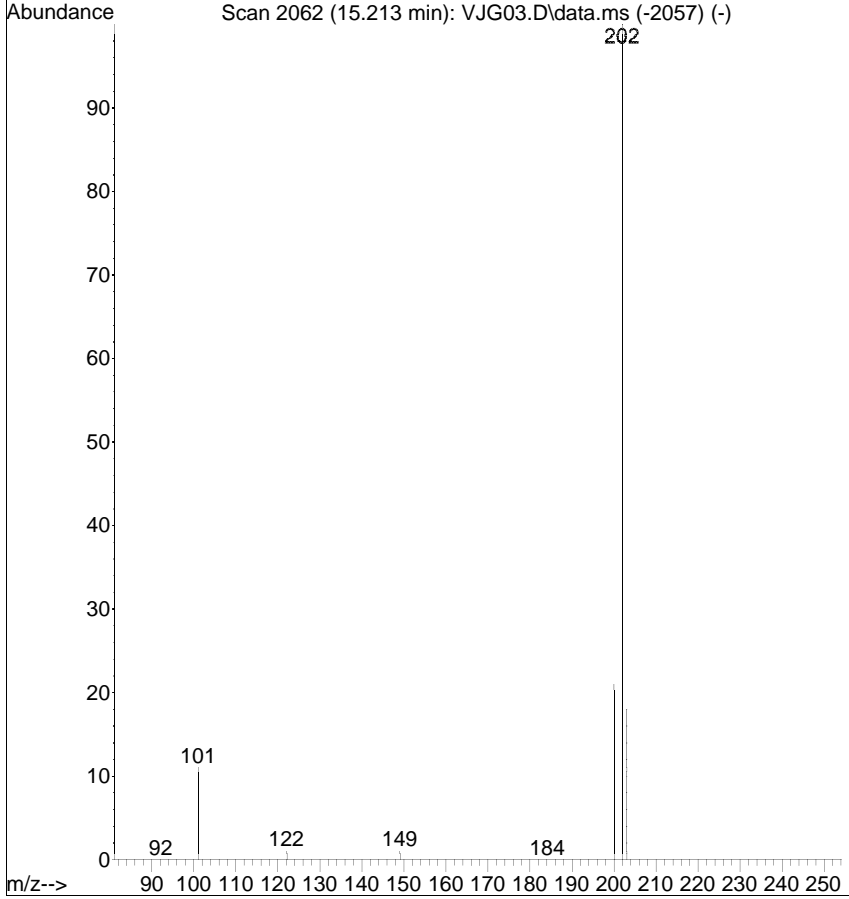


#19
 Pyrene
 Concen: 0.0077 ug/mL
 RT: 15.207 min Scan# 2062
 Delta R.T. -0.007 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

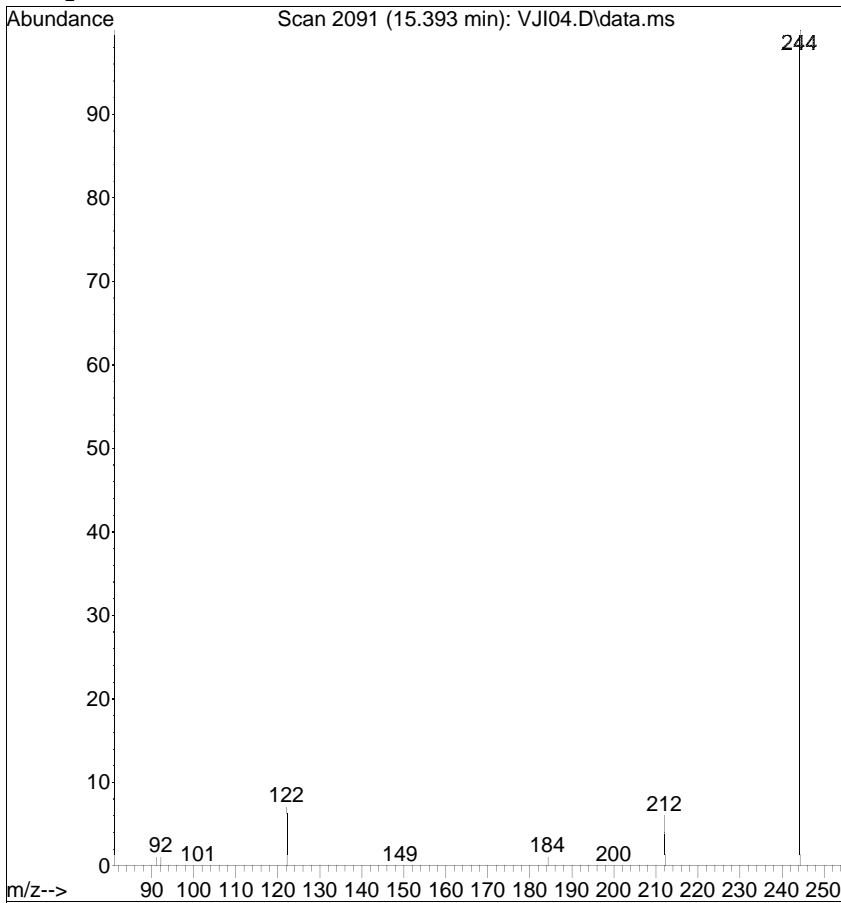
Tgt Ion	Resp	Lower	Upper
202	1173		
200	27.5	1.1	41.1
203	27.2	0.0	37.7



Ref

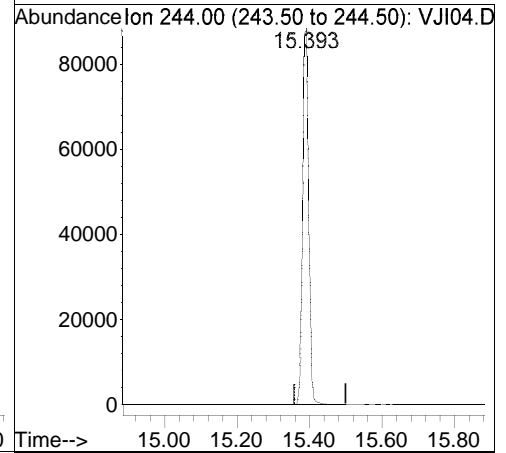


Raw

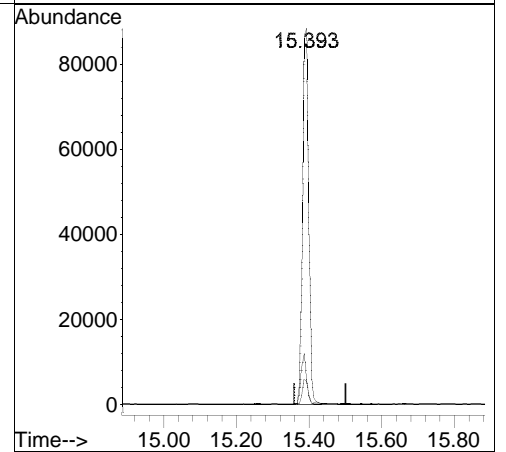
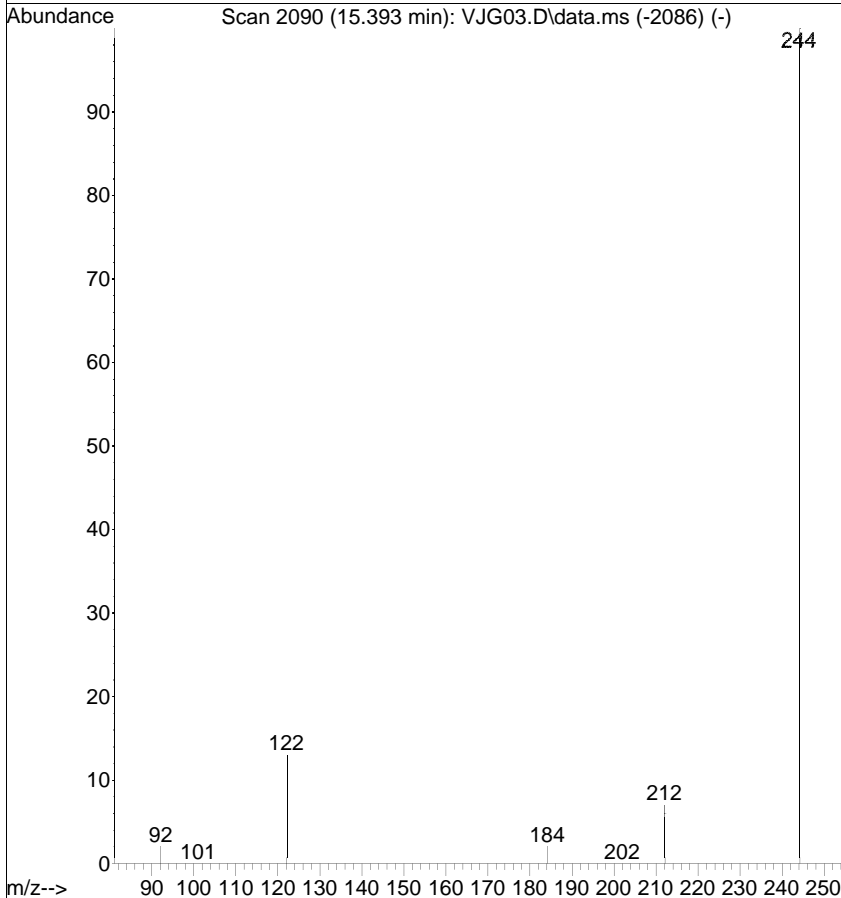


#20
 Terphenyl-d14
 Concen: 0.8018 ug/mL
 RT: 15.393 min Scan# 2091
 Delta R.T. -0.000 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

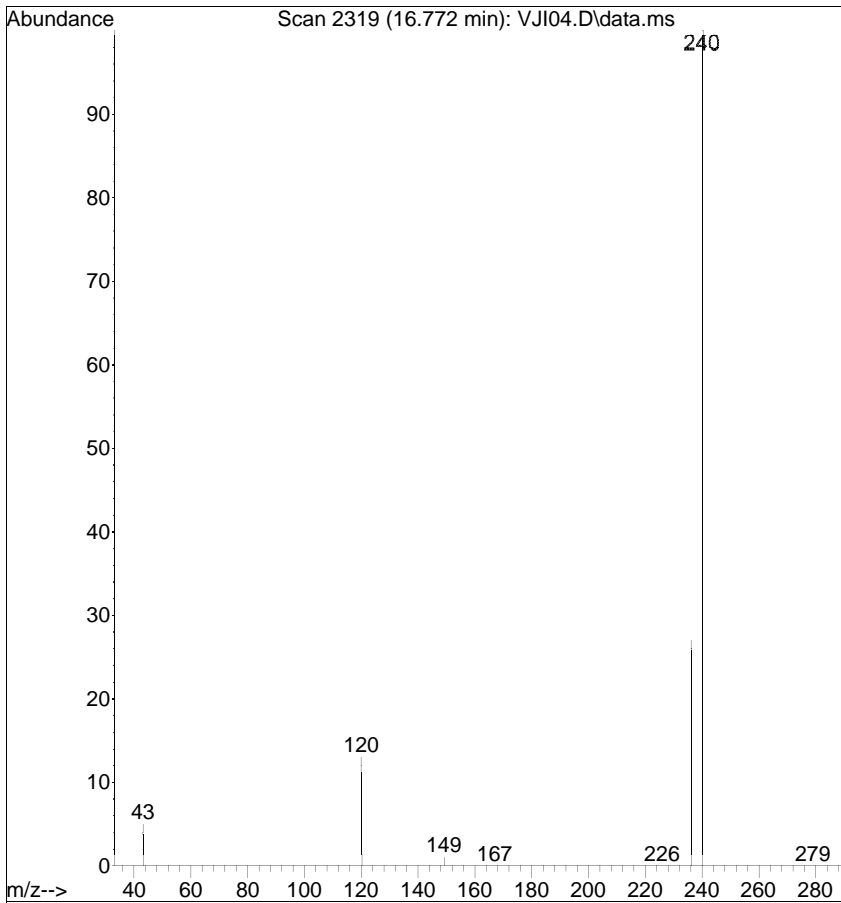
Tgt Ion	Resp	Lower	Upper
244	100043		
122	7.3	0.0	25.0
212	6.3	0.0	31.4



Ref

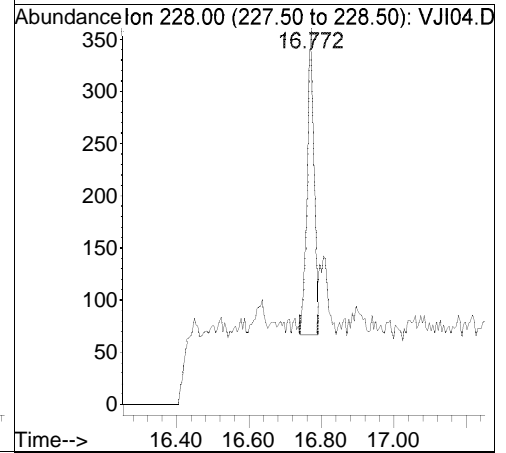


Raw

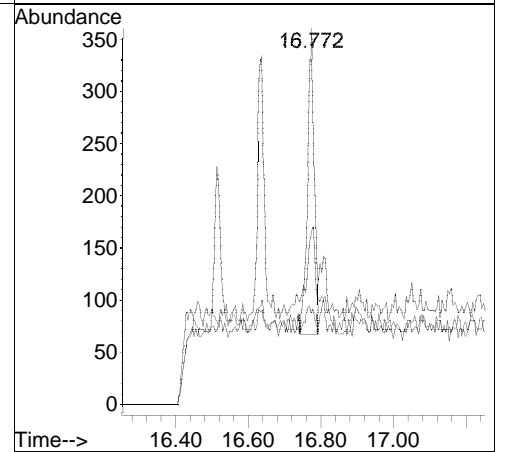
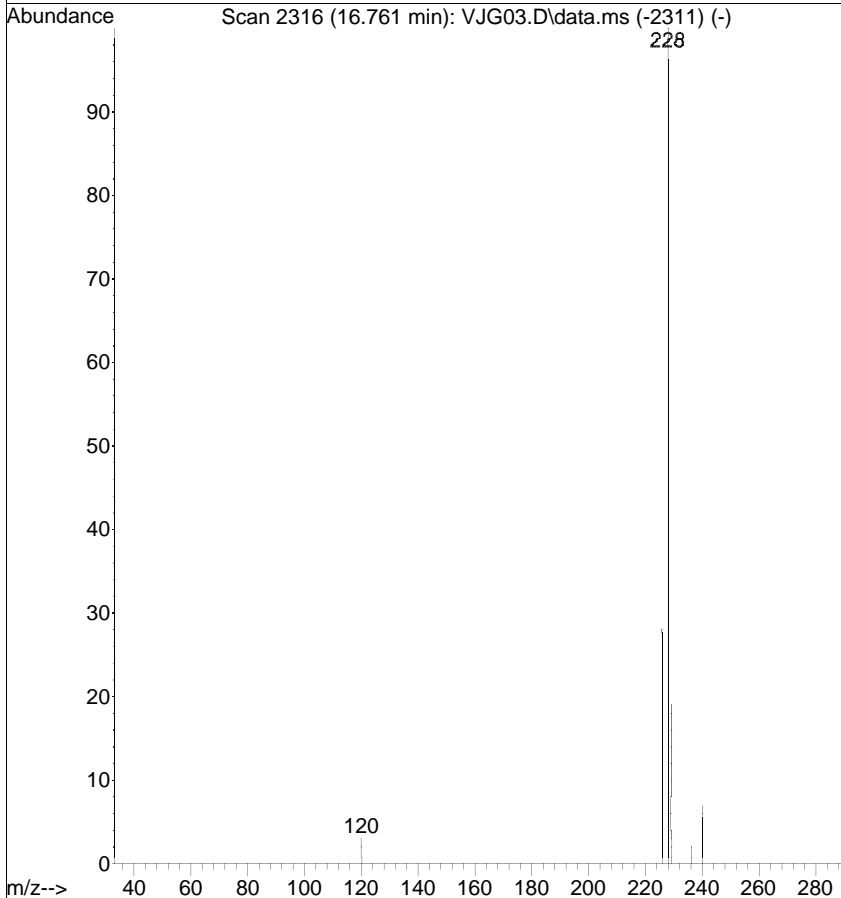


#21
 Benzo(a)anthracene
 Concen: 0.0027 ug/mL
 RT: 16.772 min Scan# 2319
 Delta R.T. 0.011 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

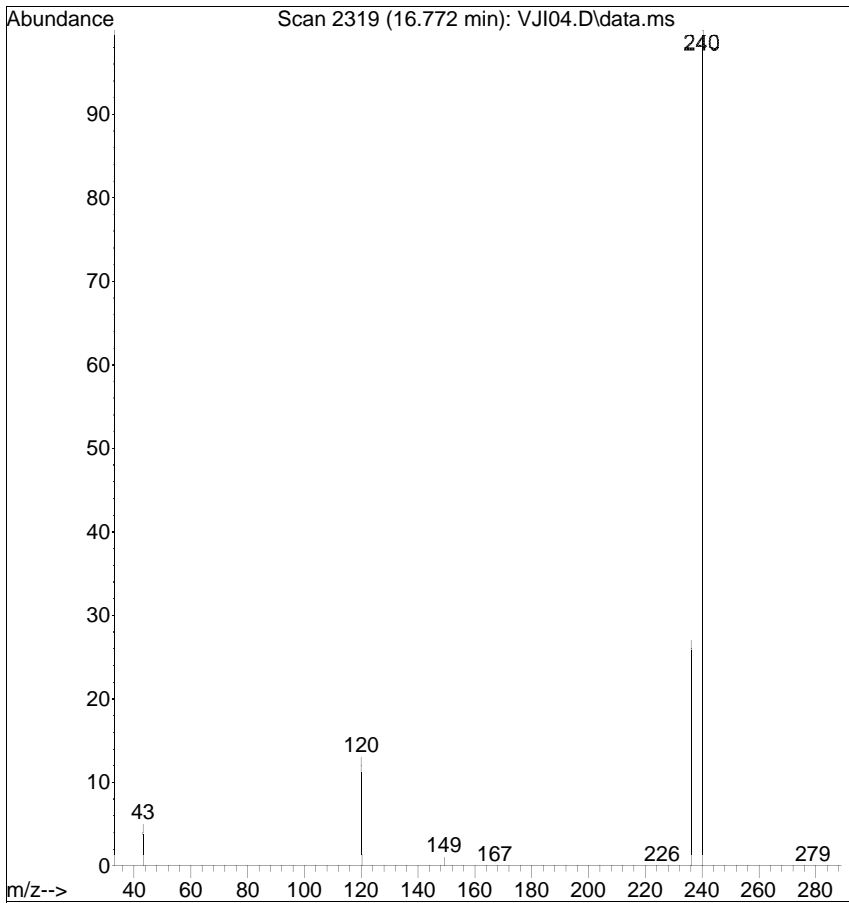
Tgt Ion	Ratio	Lower	Upper
228	100		
229	45.6	0.1	40.1#
226	24.4	9.3	49.3



Ref

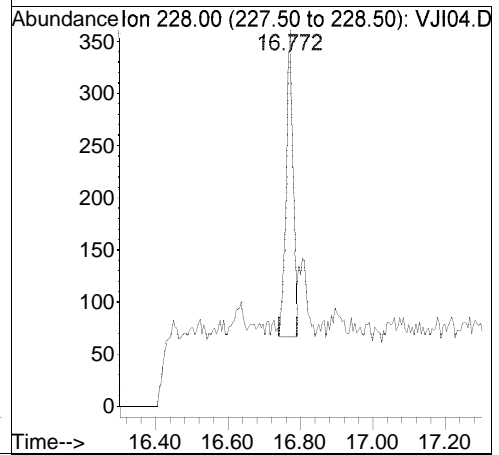


Raw

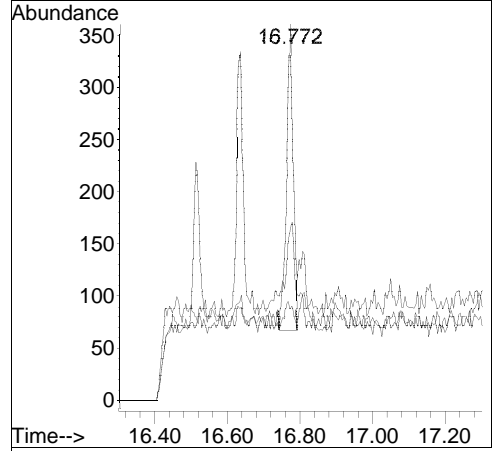
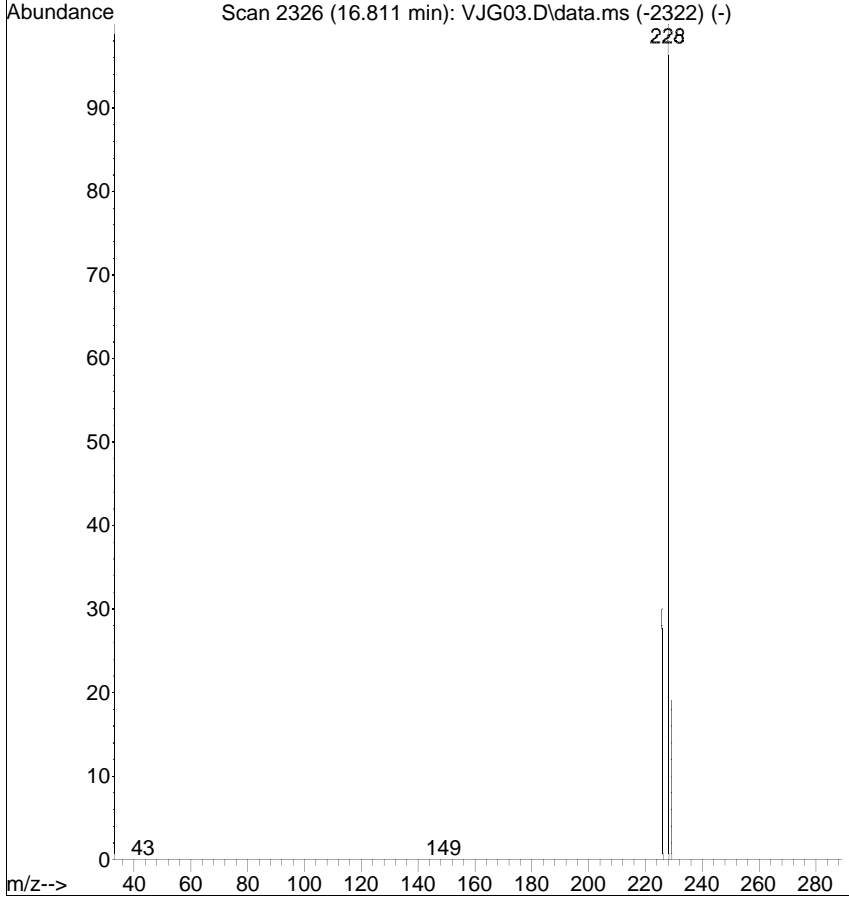


#22
 Chrysene
 Concen: 0.0028 ug/mL
 RT: 16.772 min Scan# 2319
 Delta R.T. -0.039 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

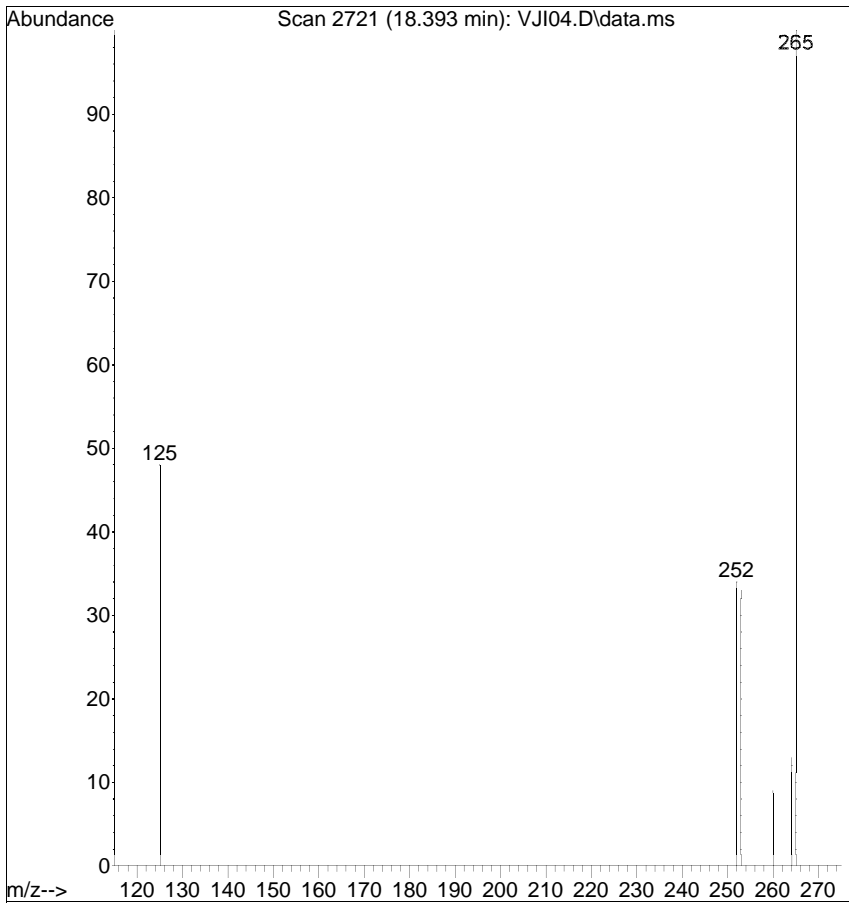
Tgt Ion	Ratio	Lower	Upper
228	100		
226	24.4	13.4	53.4
229	45.6	0.8	40.8#



Ref

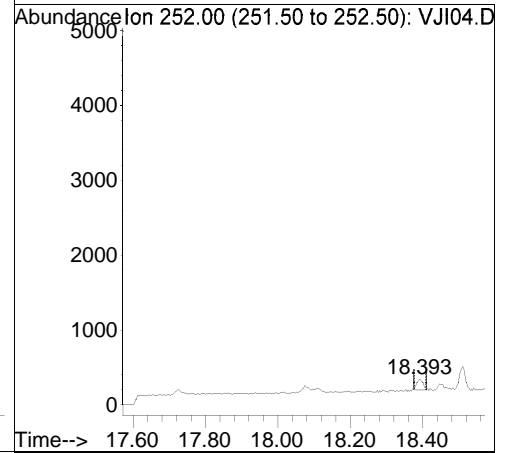


Raw

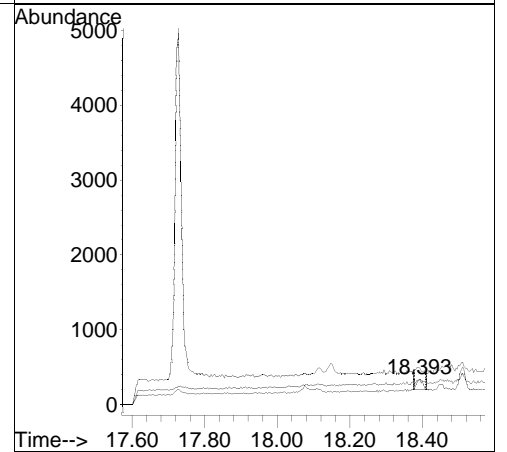
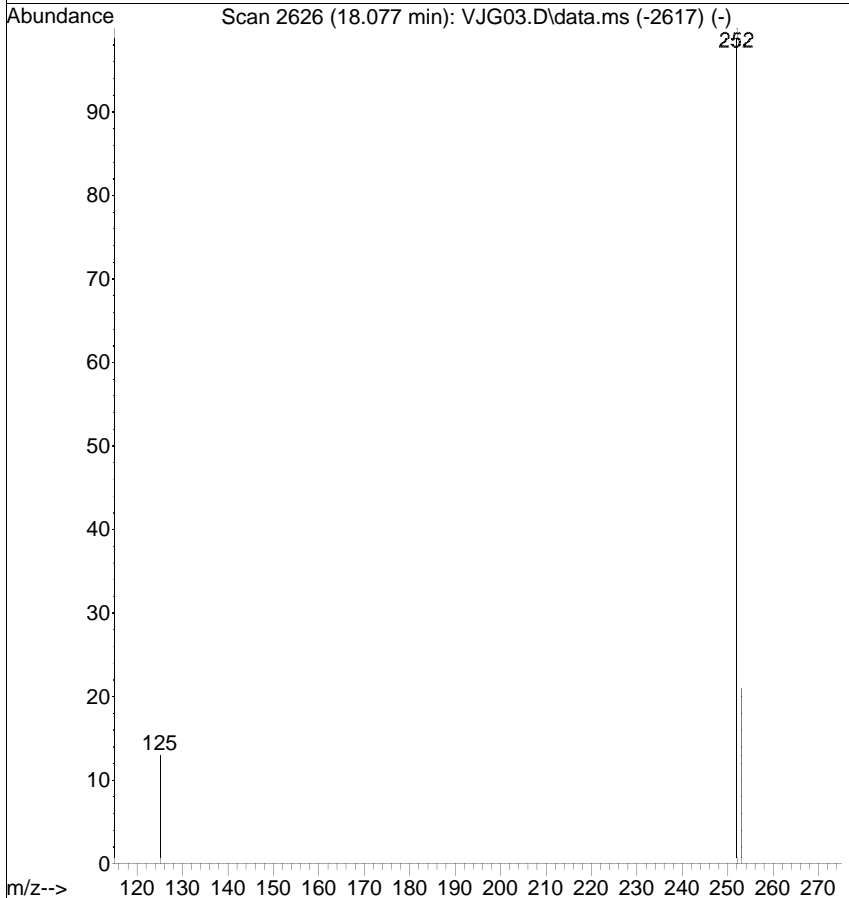


#24
 Benzo(b)fluoranthene
 Concen: 0.0013 ug/mL
 RT: 18.393 min Scan# 2721
 Delta R.T. 0.315 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

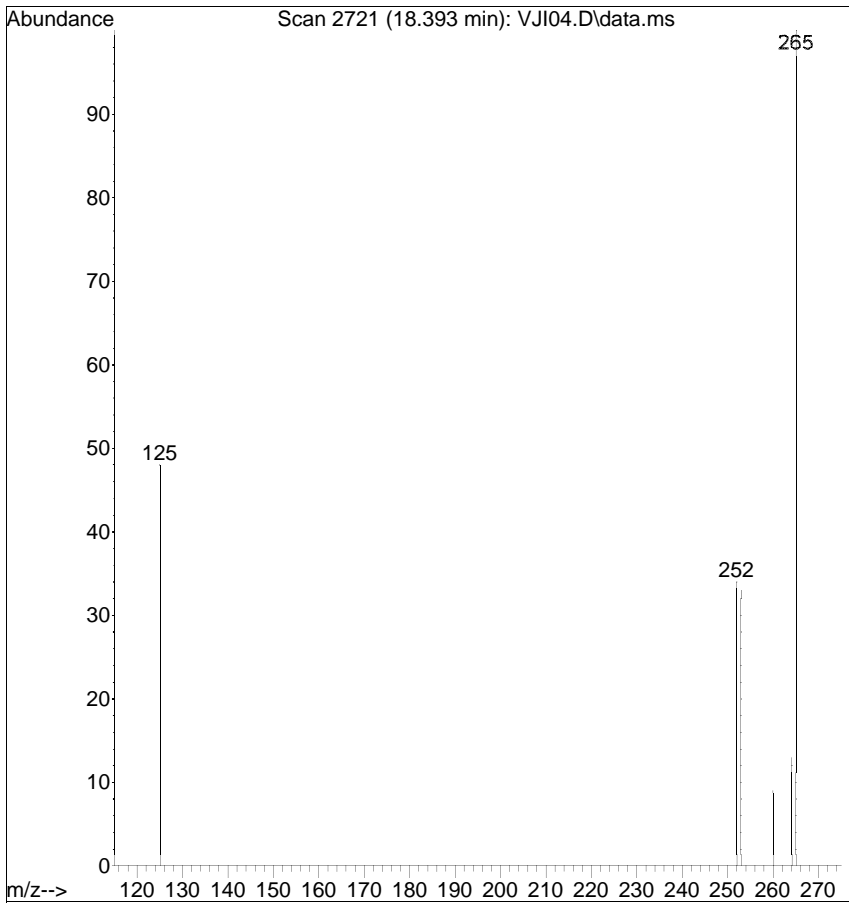
Tgt Ion	Resp	Lower	Upper
252	167		
252	100		
253	97.4	1.0	41.0#
125	141.2	0.0	20.9#



Ref

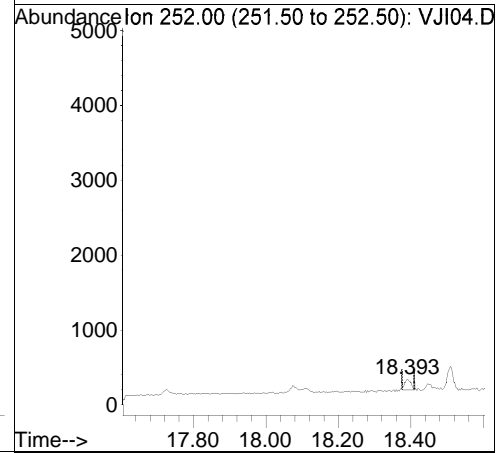


Raw

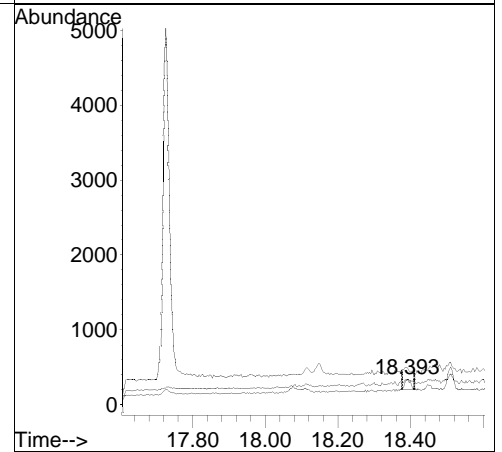
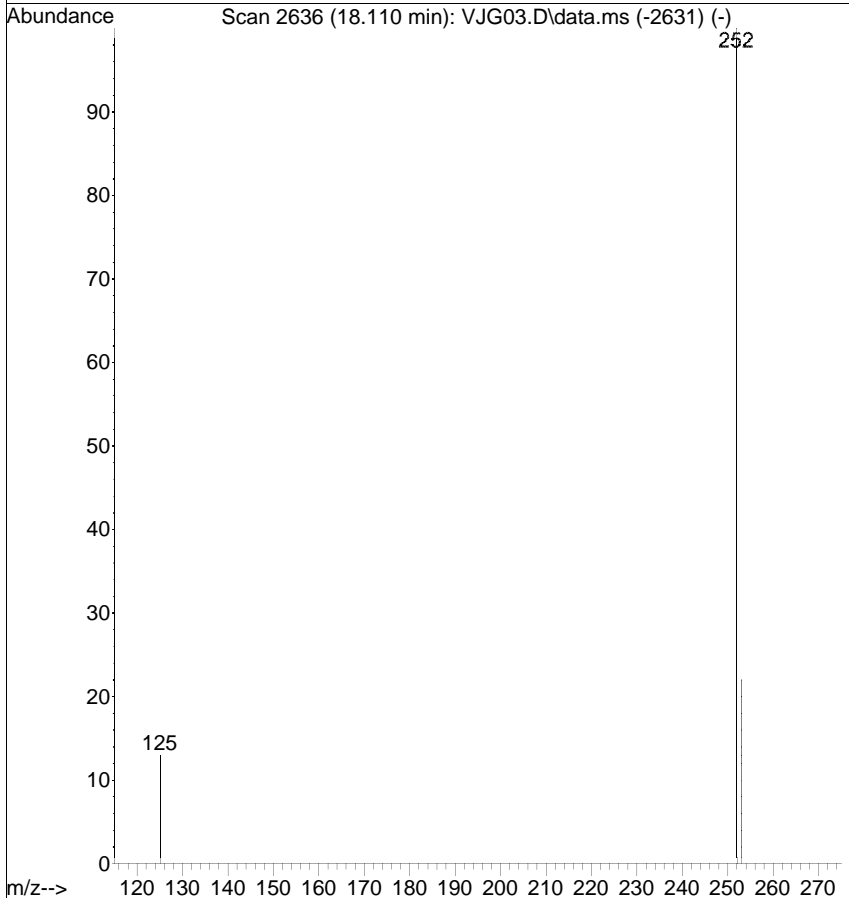


#25
 Benzo(k)fluoranthene
 Concen: 0.0013 ug/mL
 RT: 18.393 min Scan# 2721
 Delta R.T. 0.282 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

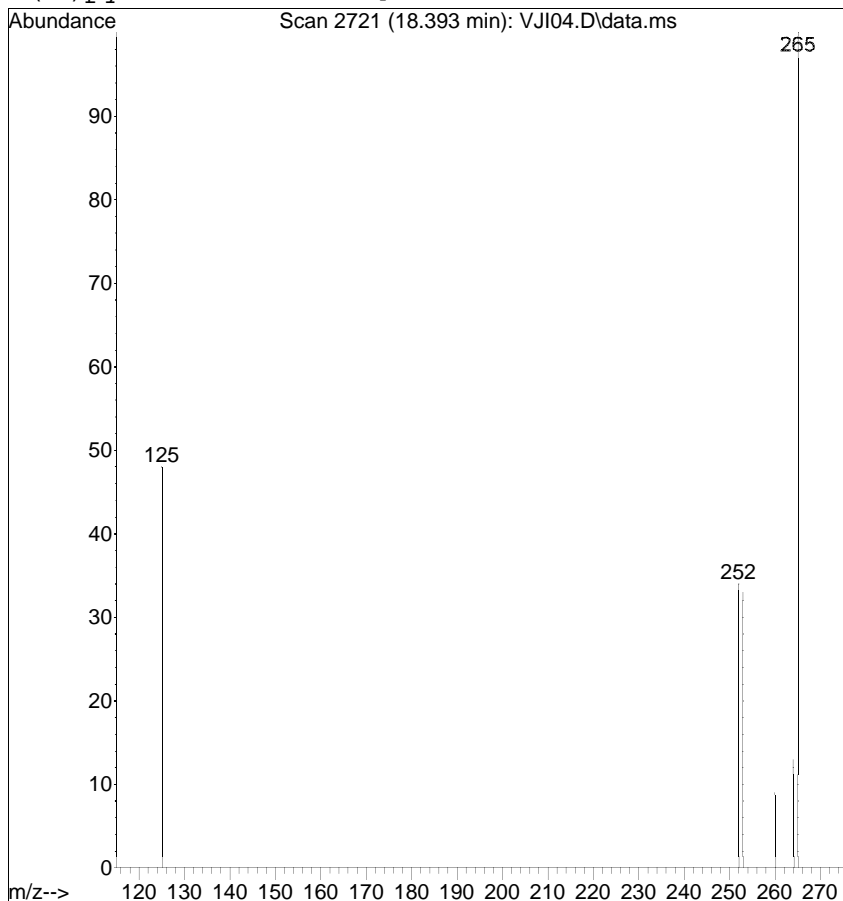
Tgt Ion	Resp	Lower	Upper
252	167		
253	97.4	1.1	41.1#
125	141.2	0.0	21.1#



Ref

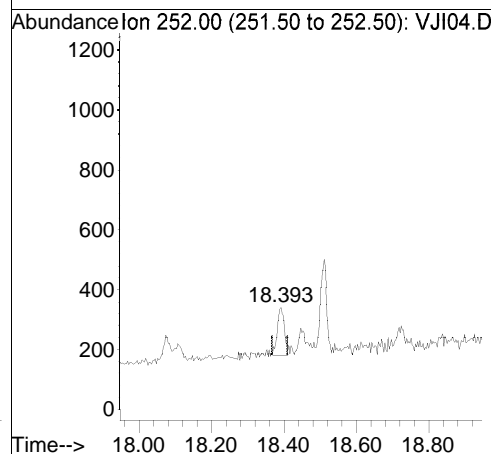


Raw

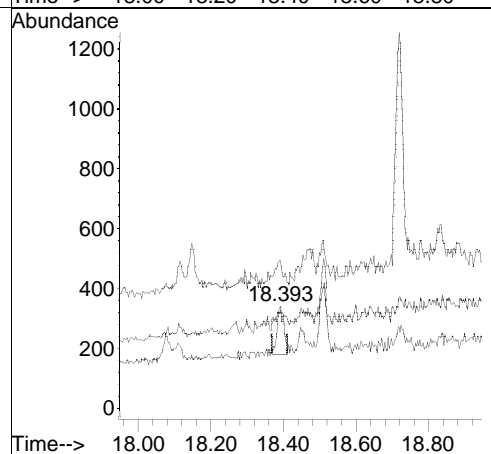
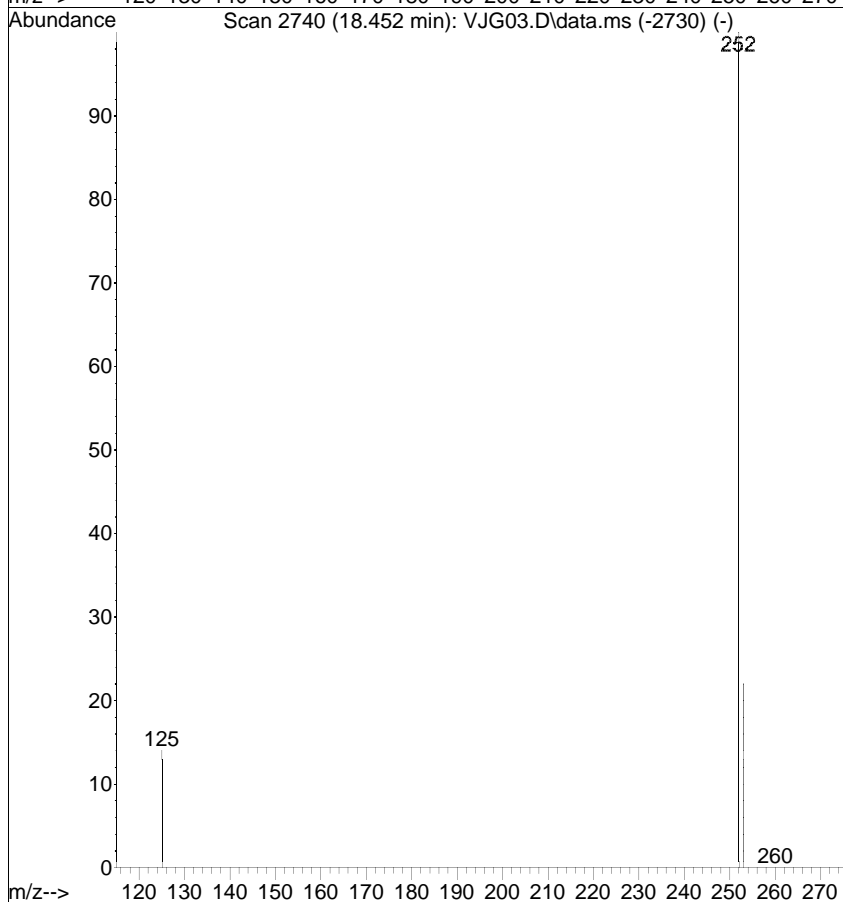


#26
 Benzo(a)pyrene
 Concen: 0.0019 ug/mL
 RT: 18.393 min Scan# 2721
 Delta R.T. -0.060 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

Tgt Ion	Resp	Lower	Upper
252	100		
253	97.4	3.4	43.4#
125	141.2	0.0	20.9#

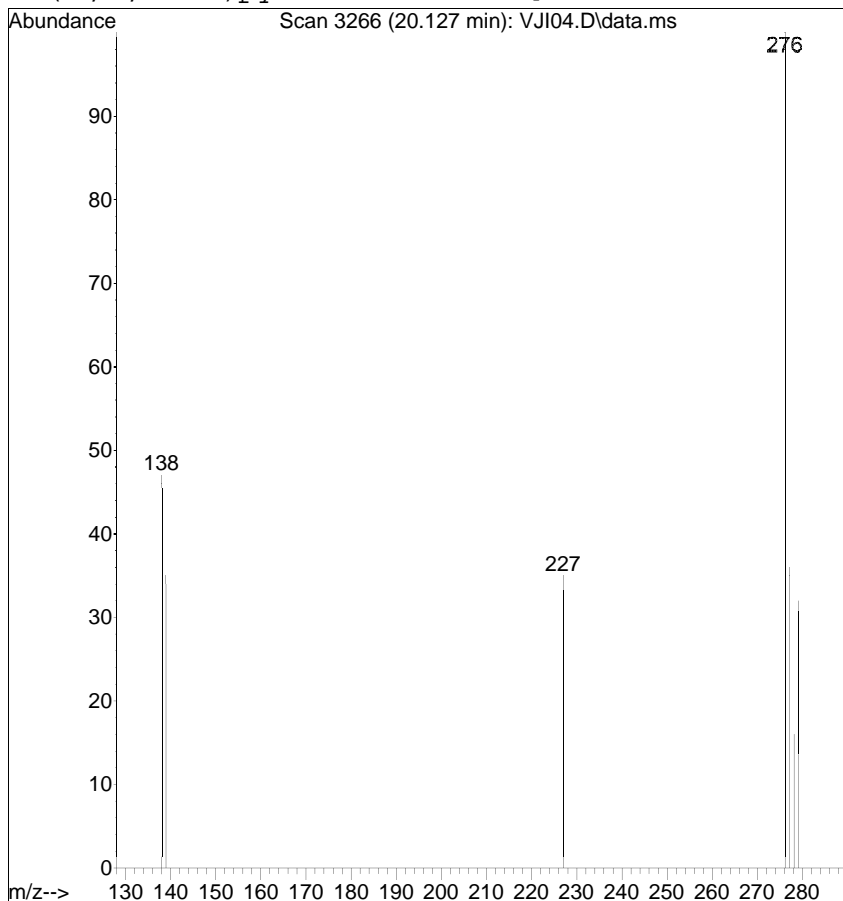


Ref



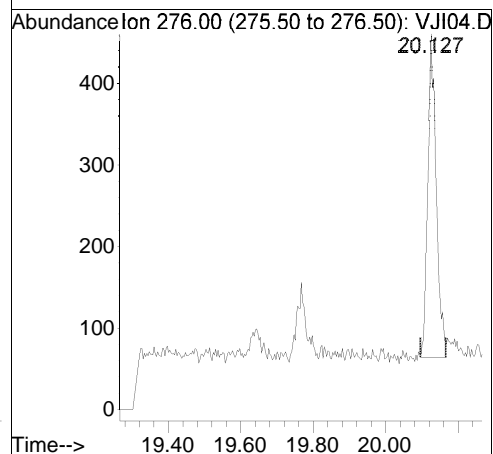
[Indeno(1,2,3-cd)pyrene; <RL; u]

Raw

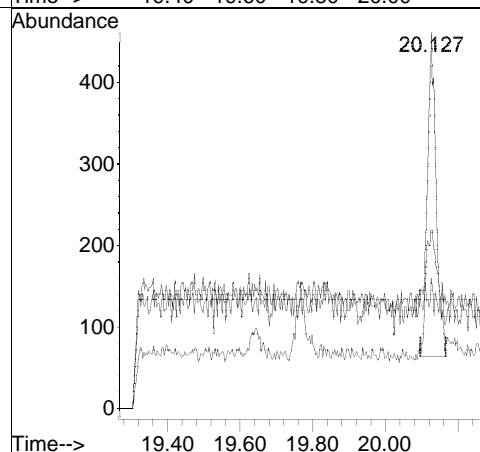
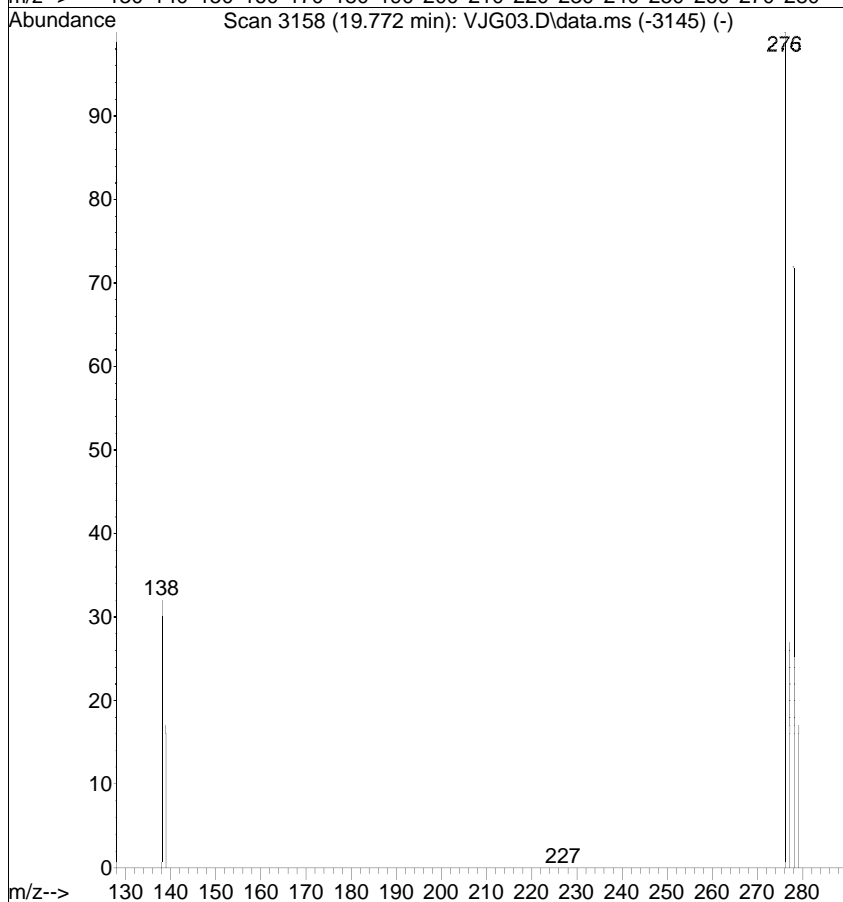


#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.0058 ug/mL
 RT: 20.127 min Scan# 3266
 Delta R.T. 0.355 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

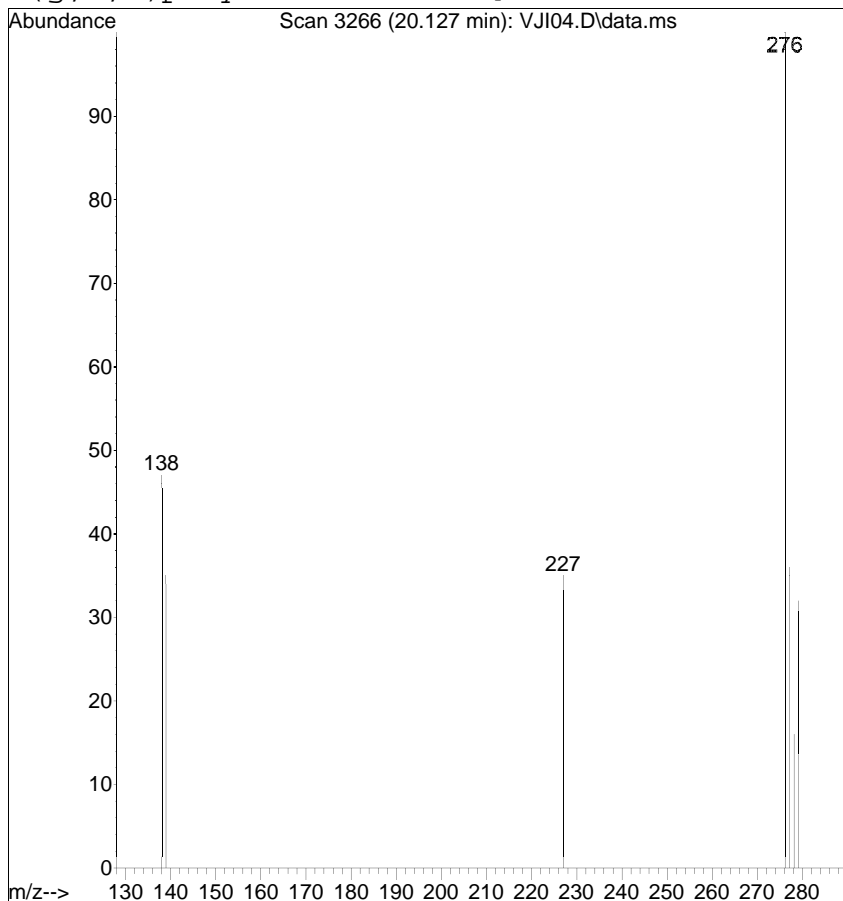
Tgt Ion	Resp	Lower	Upper
276	100		
138	47.3	0.0	23.1#
227	34.7	0.0	21.0#



Ref

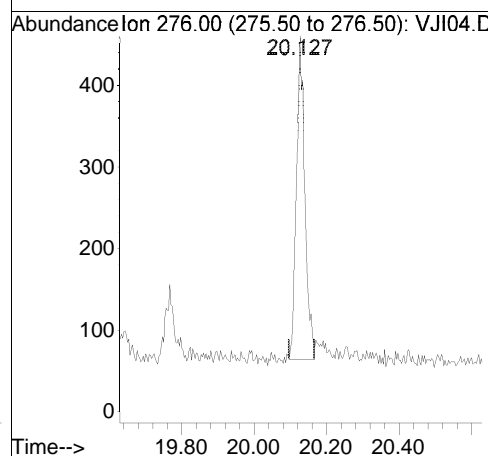


Raw

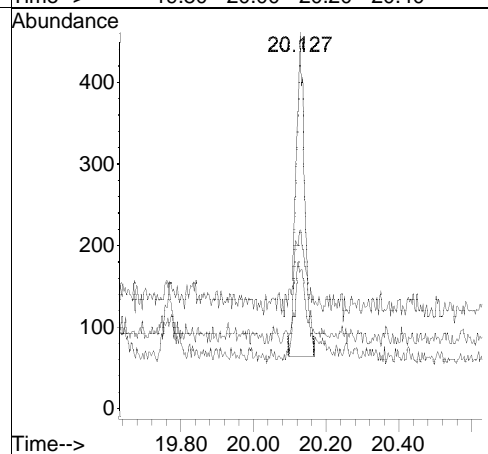
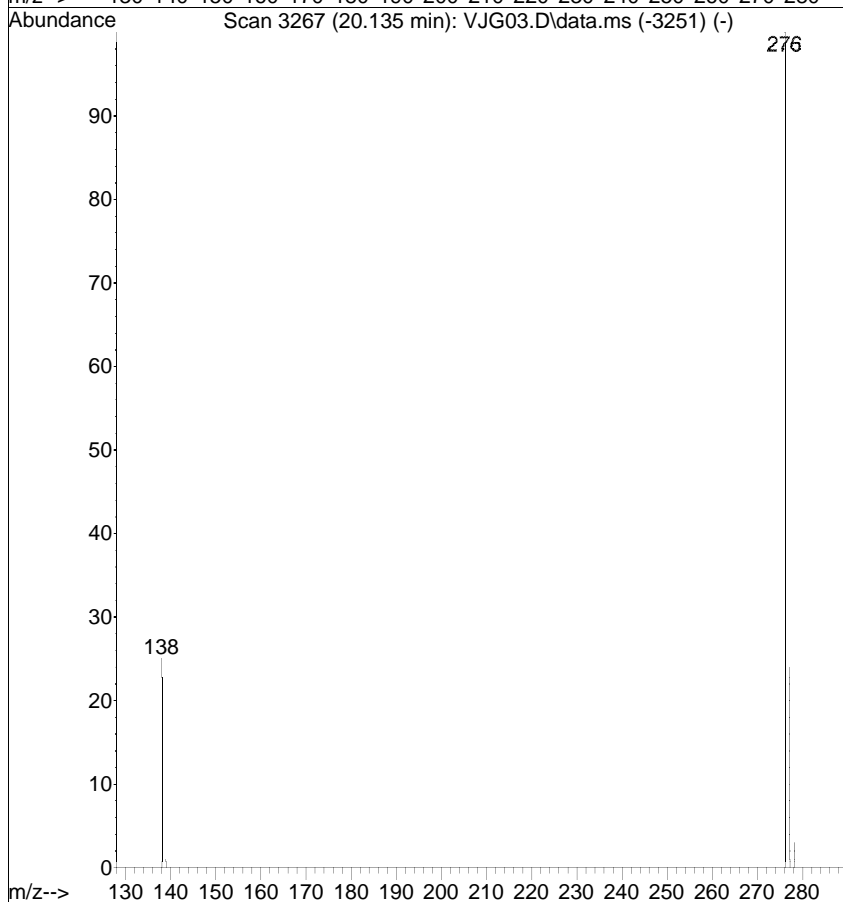


#29
 Benzo(g,h,i)perylene
 Concen: 0.0074 ug/mL
 RT: 20.127 min Scan# 3266
 Delta R.T. -0.008 min
 Lab File: VJI04.D
 Acq: 18 Oct 2018 10:53 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	47.3	0.0	22.1#
277	36.2	2.5	42.5



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 303845-004 Client ID : DUP10032018-01
 Seqnum : 528419614005 Matrix : Water Acct : TRC-SF (MJD)
 File : vji05 Batch : 264323 Time : 18-OCT-2018 11:28
 Cal : 528398235001 Caldate : 03-OCT-2018
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1050.00 mL --> 1.0 ml = 0.0009524 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.003400	ND	0.1		u
Acenaphthylene	0	ND	0.1		u
Acenaphthene	0.003700	ND	0.1		u
Fluorene	0	ND	0.1		u
Phenanthrene	0.003100	ND	0.1		u
Anthracene	0.0009000	ND	0.1		u
Fluoranthene	0.004800	ND	0.1		u
Pyrene	0.01040	ND	0.1		u
Benzo(a)anthracene	0.002700	ND	0.1		u
Chrysene	0.002800	ND	0.1		u
Benzo(b)fluoranthene	0.001000	ND	0.1		u
Benzo(k)fluoranthene	0.001000	ND	0.1		u
Benzo(a)pyrene	0.002700	ND	0.1		u
Indeno(1,2,3-cd)pyrene	0.001300	ND	0.1		u
Dibenz(a,h)anthracene	0	ND	0.1		u
Benzo(g,h,i)perylene	0.01160	ND	0.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.9686	0.9524	0.9225	97	48-124	c+ u
2-Fluorobiphenyl	0.7282	0.9524	0.6935	73	51-120	u
Terphenyl-d14	0.8153	0.9524	0.7765	82	25-120	u

ISTD (CCV vji03)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	86295	106234	23.11	9.04	9.04	0.00
Acenaphthene-d10	51680	69450	34.38	11.35	11.35	0.00
Phenanthrene-d10	94015	128000	36.15	13.31	13.31	0.00
Chrysene-d12	81168	109248	34.59	16.78	16.77	-0.01
Perylene-d12	69253	92773	33.96	18.51	18.51	0.00

YW1 10/18/18 [Nitrobenzene-d5]: Recovery well within limits despite instrument bias

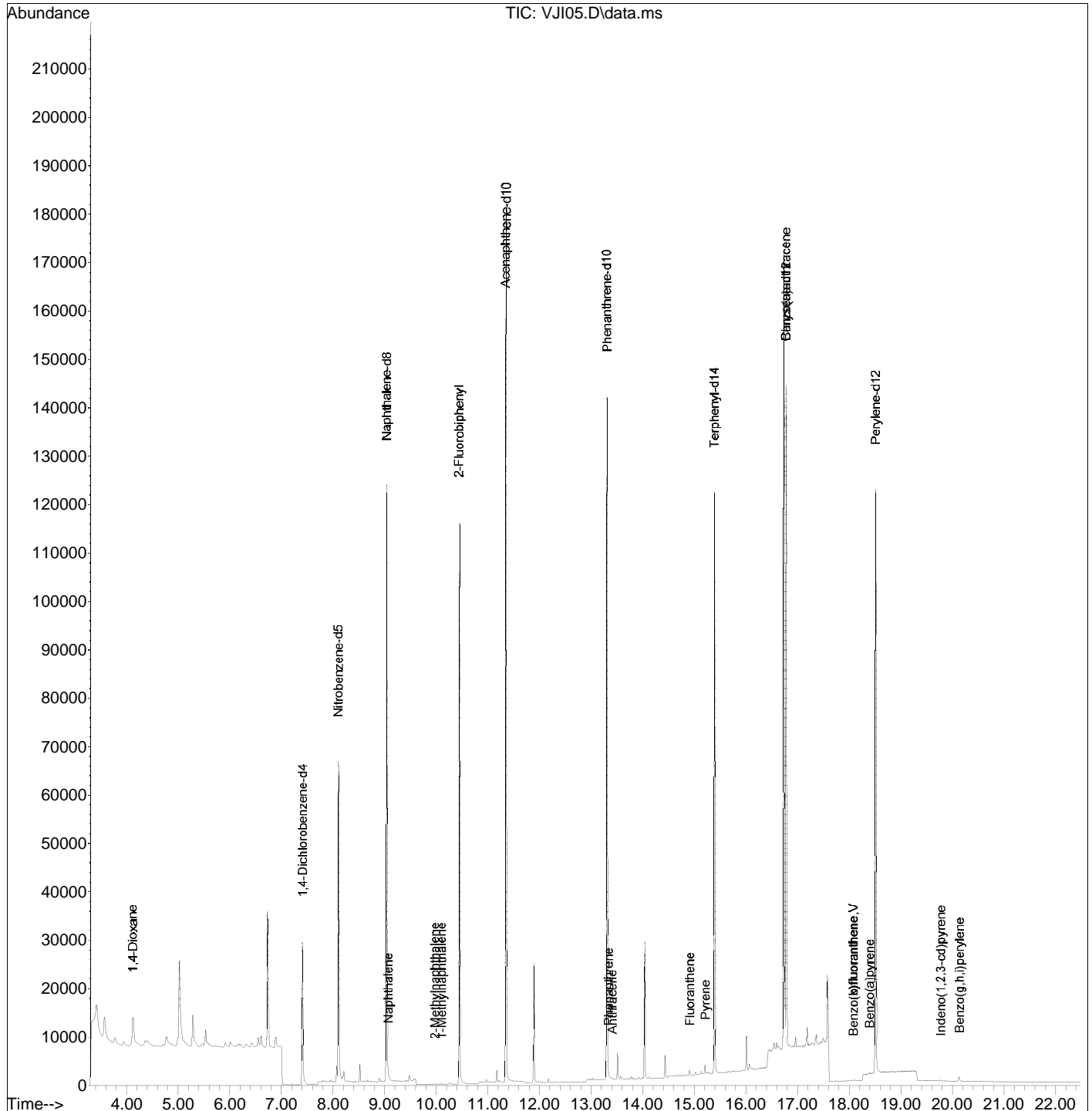
Analyst: YW1 Date: 10/18/18 Reviewer: LW Date: 10/18/18

+ = high bias c = CCV u = use

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101818\
 Data File : VJI05.D
 Acq On : 18 Oct 2018 11:28 am
 Operator :
 Sample : S,303845-004
 Misc : 264323,1,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 18 11:52:21 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101818\
 Data File : VJI05.D
 Acq On : 18 Oct 2018 11:28 am
 Operator :
 Sample : S,303845-004
 Misc : 264323,1,
 ALS Vial : 5 Sample Multiplier: 1

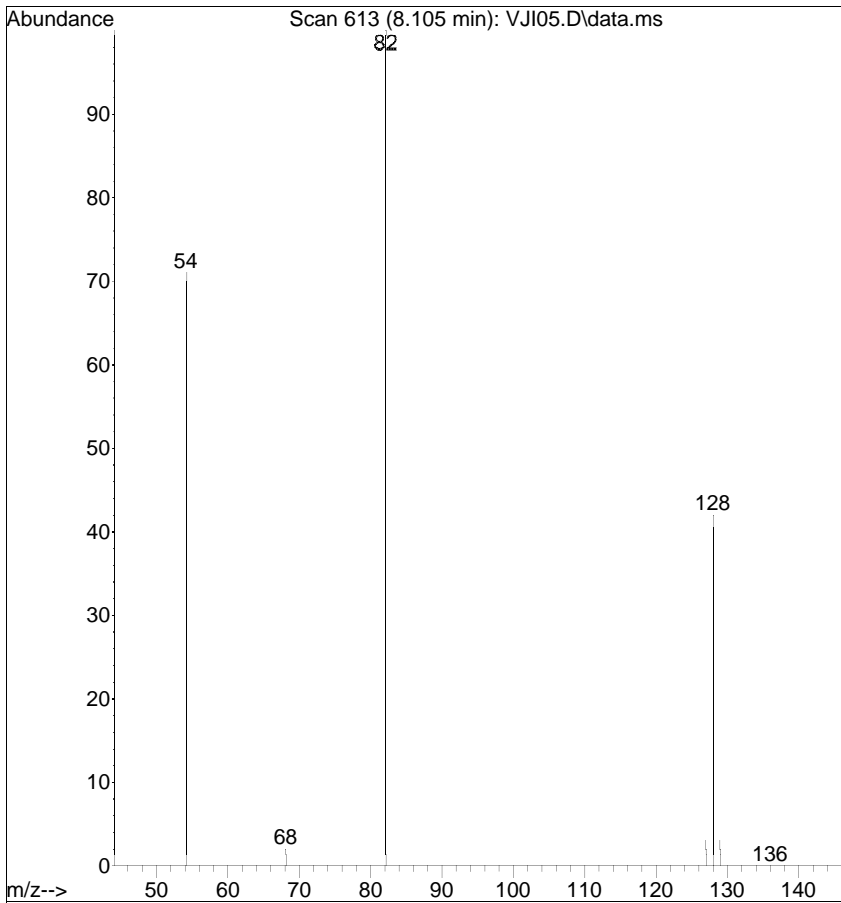
Quant Time: Oct 18 11:52:21 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.406	152	25971	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.038	136	106234	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.347	164	69450	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.305	188	128000	1.0000	ug/mL	0.00
18) Chrysene-d12	16.771	240	109248	1.0000	ug/mL	0.00
23) Perylene-d12	18.510	264	92773	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Rel.RT	Qvalue
2) 1,4-Dioxane	4.123	88	216	0.0181	ug/mL	# 1	
4) Nitrobenzene-d5	8.105	82	32783	0.9686	ug/mL	# 90	
5) Naphthalene	9.066	128	360	0.0034	ug/mL	# 52	
6) 2-Methylnaphthalene	9.970	142	128	0.0016	ug/mL	# 76	
7) 1-Methylnaphthalene	10.101	142	117	0.0016	ug/mL	# 74	
9) 2-Fluorobiphenyl	10.446	172	82474	0.7282	ug/mL	# 93	
10) Acenaphthylene	0.000	152	0	N.D.			
11) Acenaphthene	11.347	154	282	0.0037	ug/mL	# 33	
12) Fluorene	0.000	166	0	N.D.			
14) _Pentachlorophenol	0.000	266	0	N.D.			
15) Phenanthrene	13.335	178	410	0.0031	ug/mL	# 66	
16) Anthracene	13.406	178	113	0.0009	ug/mL	# 6	
17) Fluoranthene	14.906	202	755	0.0048	ug/mL	# 64	
19) Pyrene	15.207	202	1586	0.0104	ug/mL	# 83	
20) Terphenyl-d14	15.387	244	101367	0.8153	ug/mL	# 85	
21) Benzo(a)anthracene	16.771	228	371	0.0027	ug/mL	# 64	
22) Chrysene	16.771	228	371	0.0028	ug/mL	# 63	
24) Benzo(b)fluoranthene	18.074	252	123	0.0010	ug/mL	# 1	
25) Benzo(k)fluoranthene	18.074	252	123	0.0010	ug/mL	# 1	
26) Benzo(a)pyrene	18.392	252	289	0.0027	ug/mL	# 1	
27) Indeno(1,2,3-cd)pyrene	19.768	276	134	0.0013	ug/mL	# 1	
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.			
29) Benzo(g,h,i)perylene	20.131	276	952	0.0116	ug/mL	# 69	

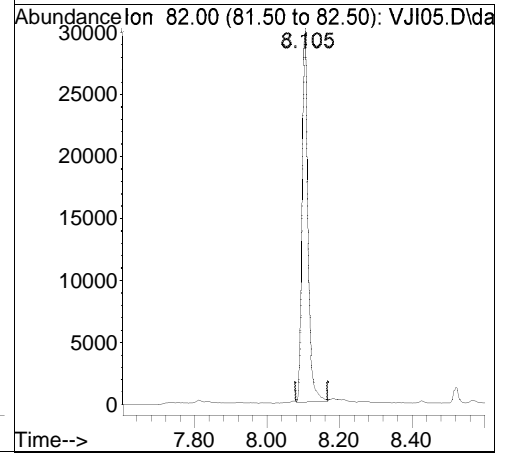
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

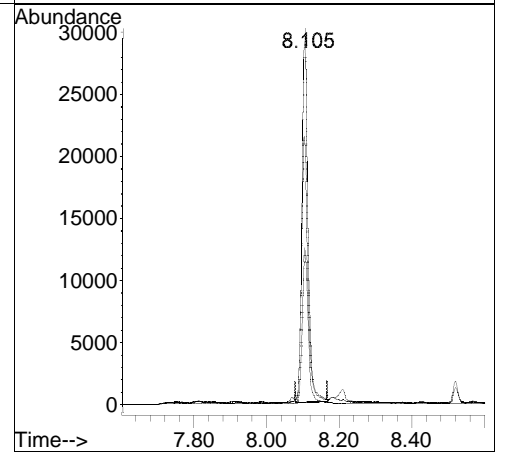
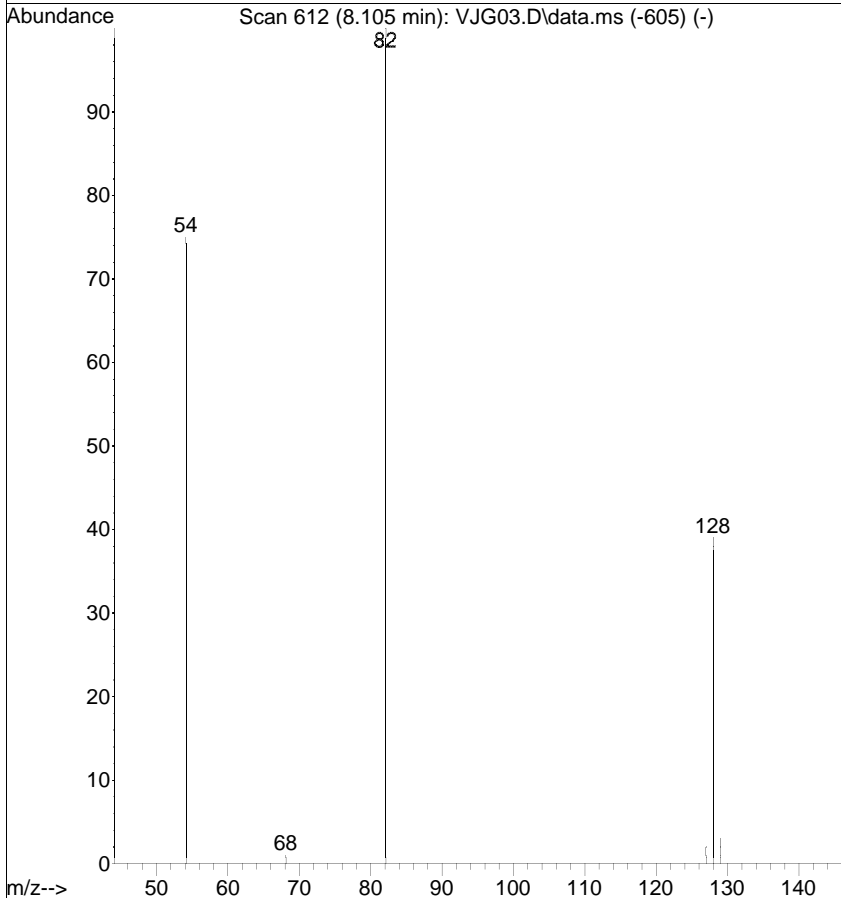


#4
 Nitrobenzene-d5
 Concen: 0.9686 ug/mL
 RT: 8.105 min Scan# 613
 Delta R.T. -0.000 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

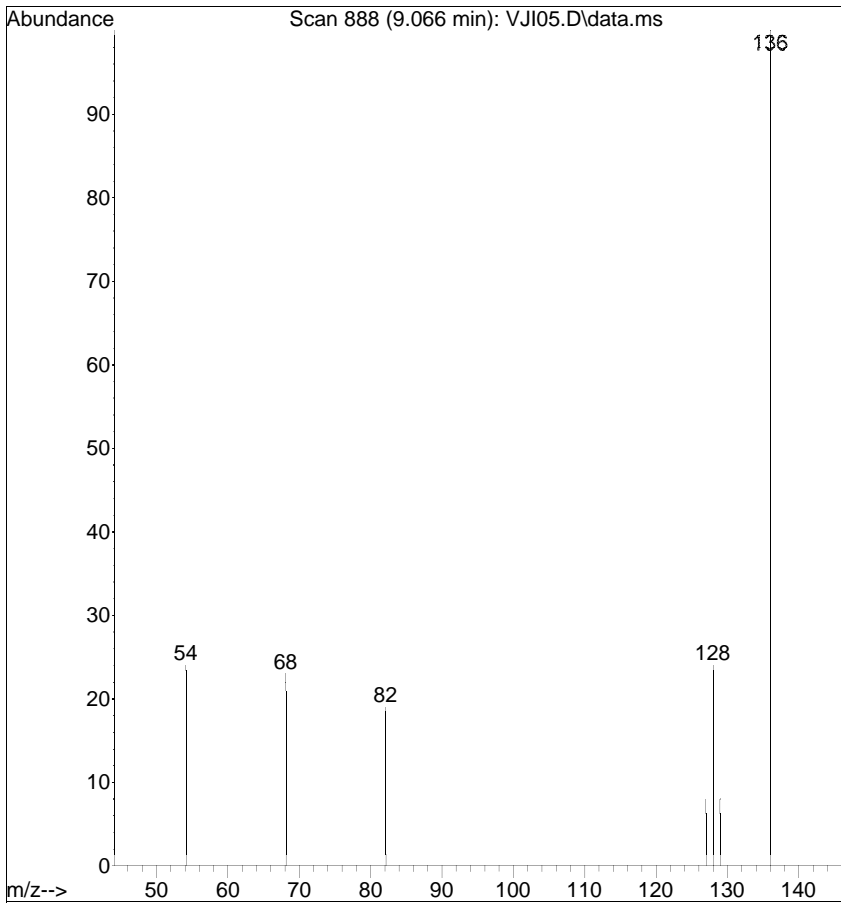
Tgt Ion	Resp	Lower	Upper
82	32783		
128	41.6	10.5	50.5
54	71.2	56.2	96.2



Ref

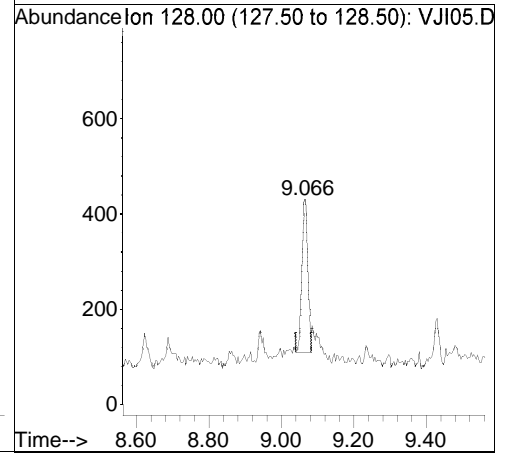


Raw

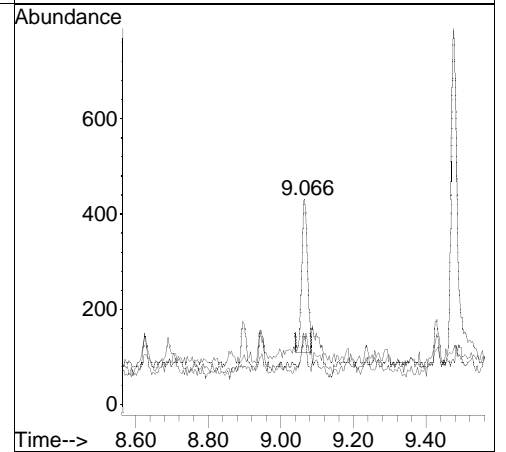
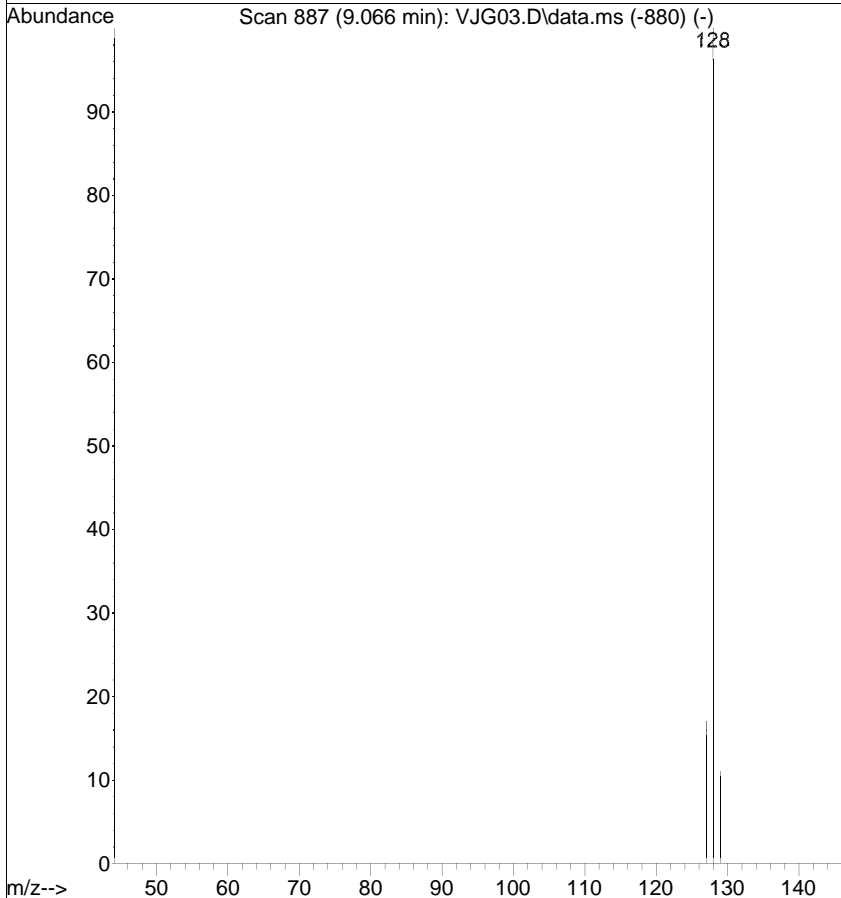


#5
 Naphthalene
 Concen: 0.0034 ug/mL
 RT: 9.066 min Scan# 888
 Delta R.T. -0.000 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

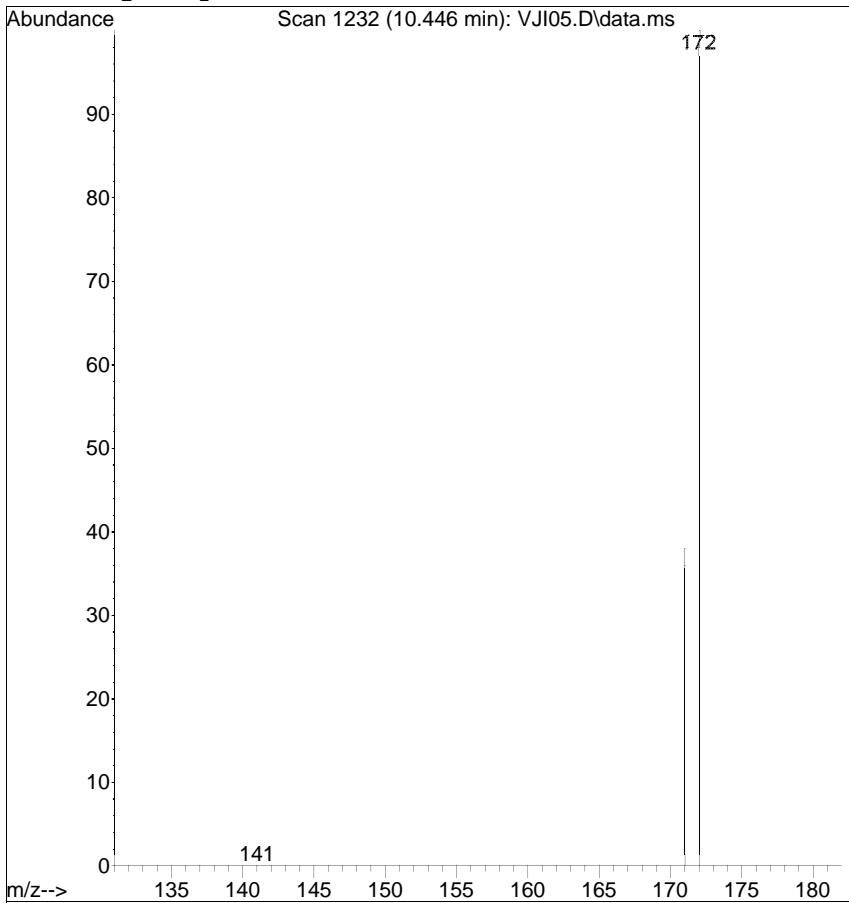
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	360		
129	32.6		0.0	31.1#
127	31.2		0.0	34.0



Ref

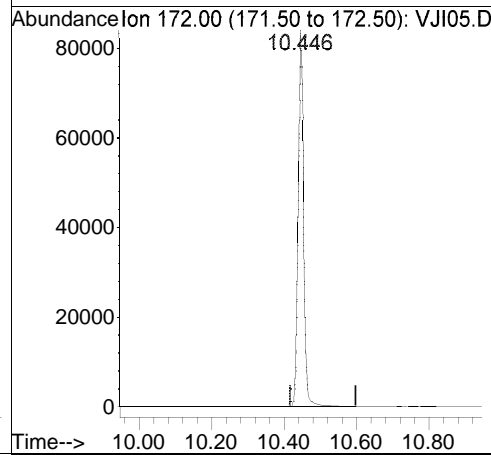


Raw

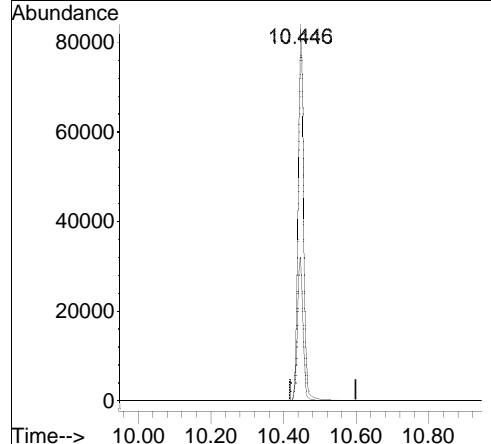
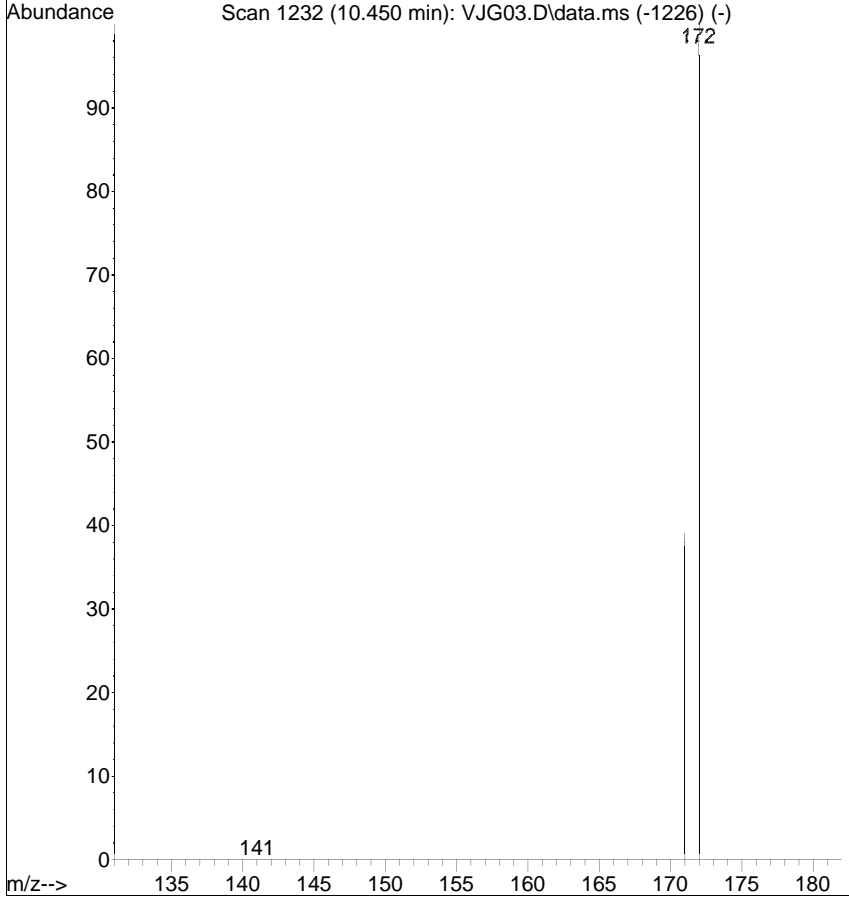


#9
 2-Fluorobiphenyl
 Concen: 0.7282 ug/mL
 RT: 10.446 min Scan# 1232
 Delta R.T. -0.004 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

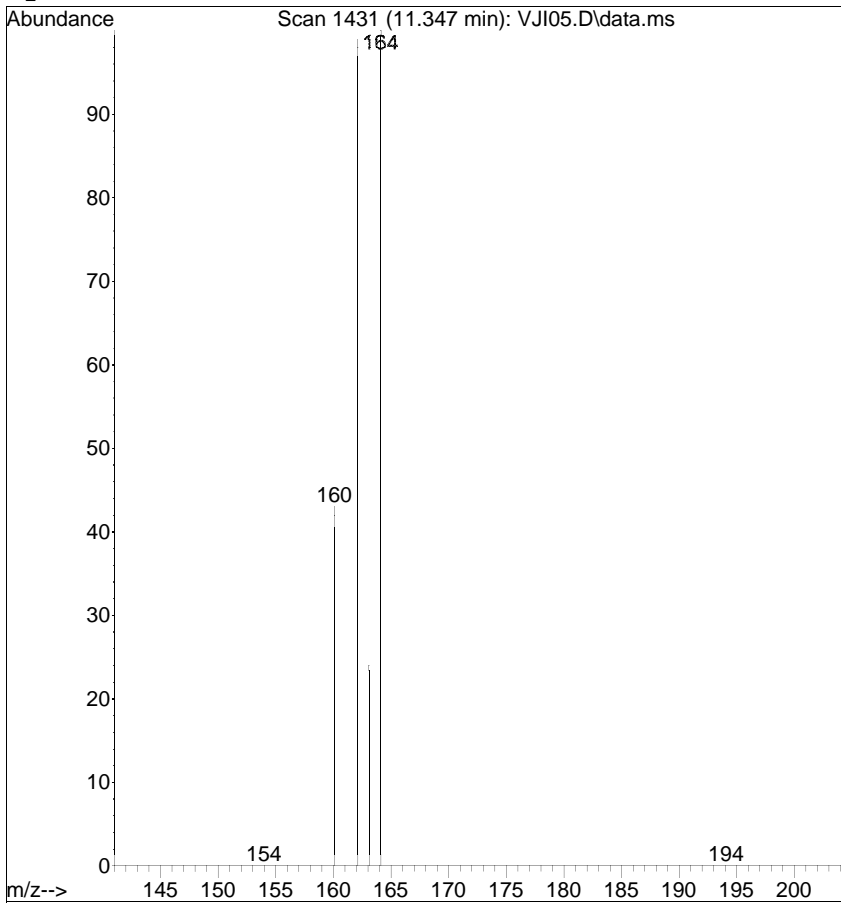
Tgt Ion	Resp	Lower	Upper
172	82474	100	100
171	38.4	14.4	54.4



Ref

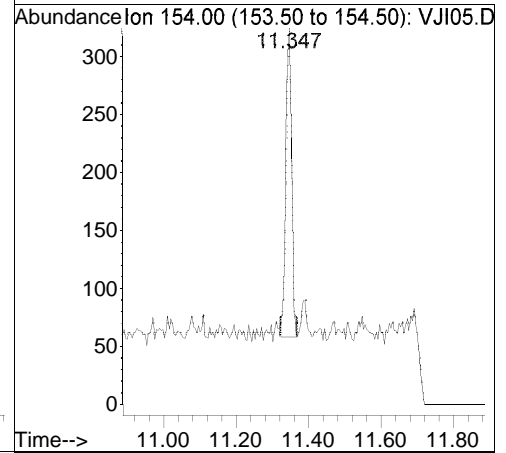


Raw

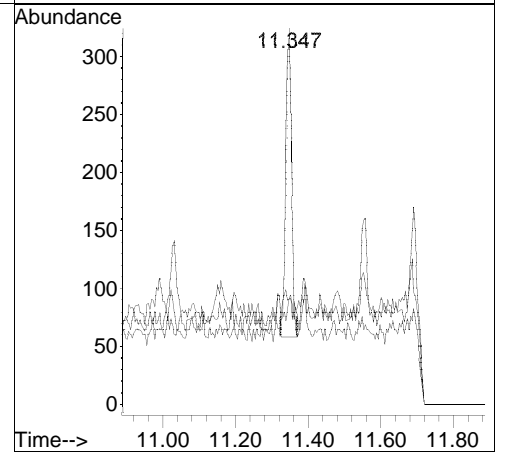
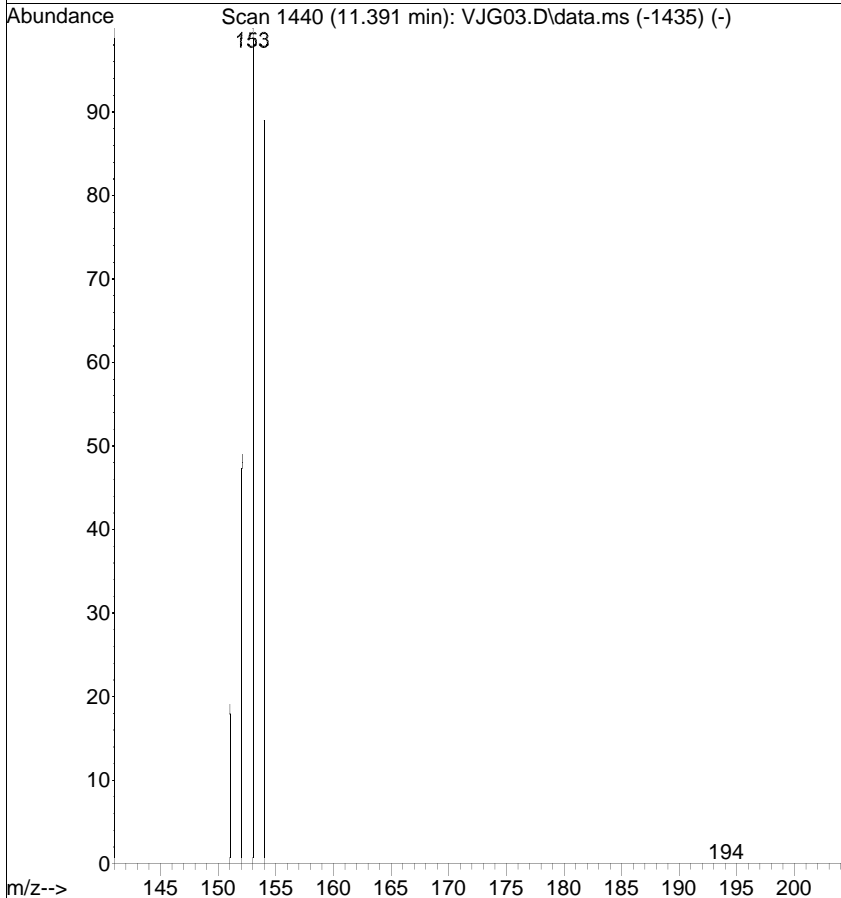


#11
 Acenaphthene
 Concen: 0.0037 ug/mL
 RT: 11.347 min Scan# 1431
 Delta R.T. -0.045 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

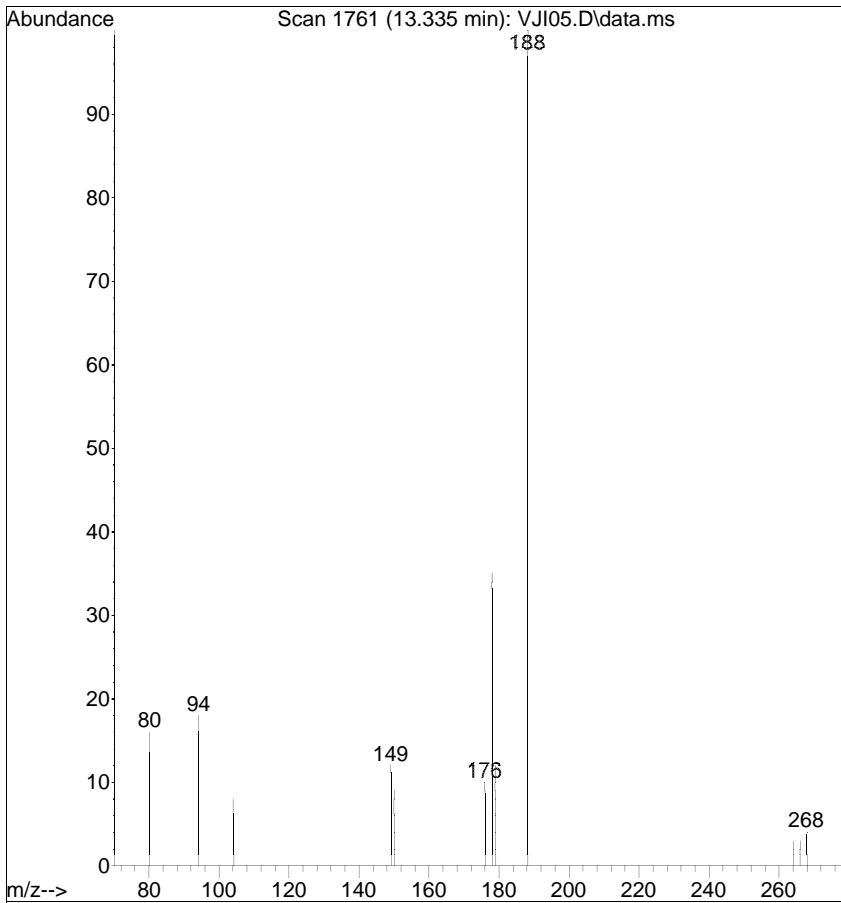
Tgt Ion	Resp	Lower	Upper
154	100		
152	28.1	35.4	75.4#
153	28.1	96.8	136.8#



Ref

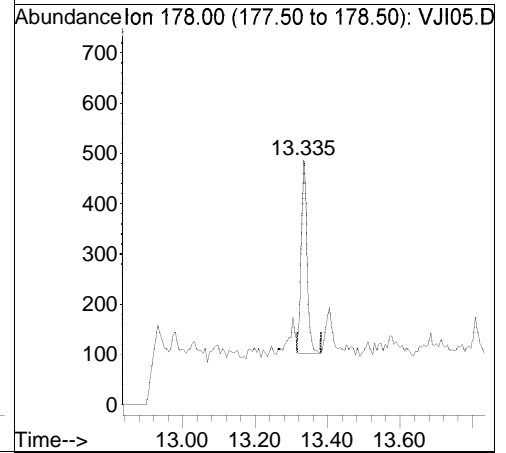


Raw

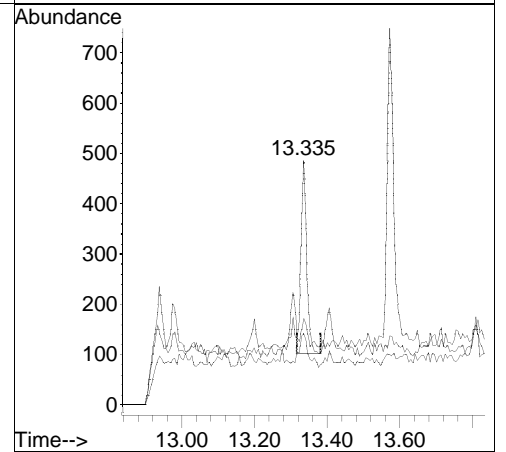
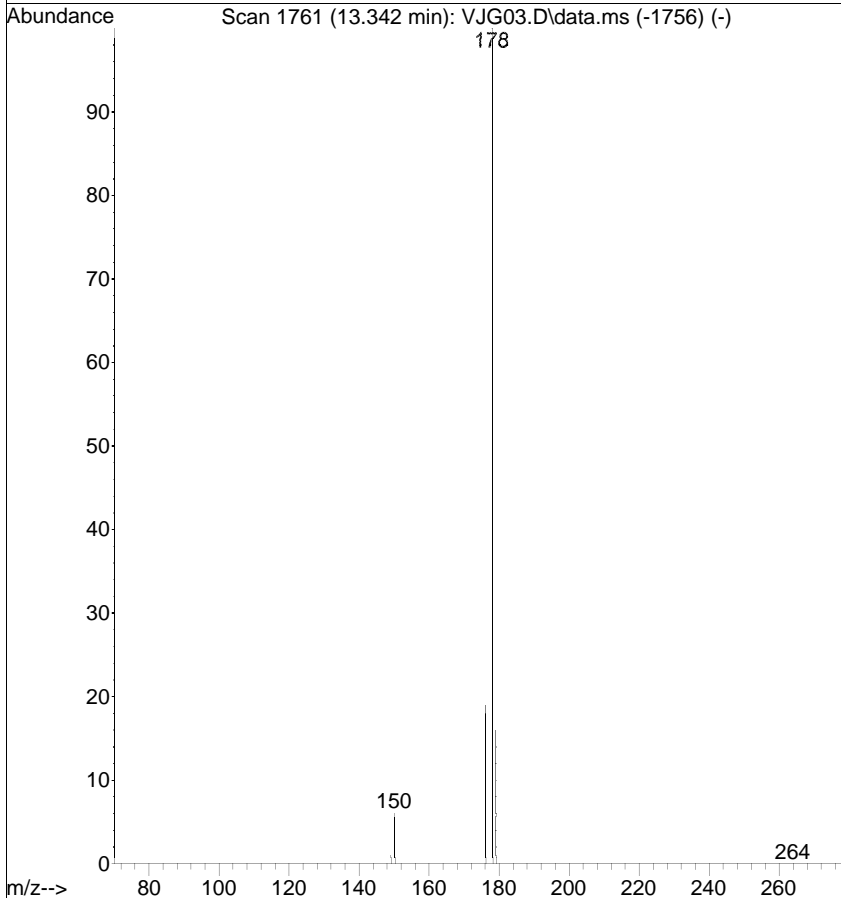


#15
 Phenanthrene
 Concen: 0.0031 ug/mL
 RT: 13.335 min Scan# 1761
 Delta R.T. -0.007 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

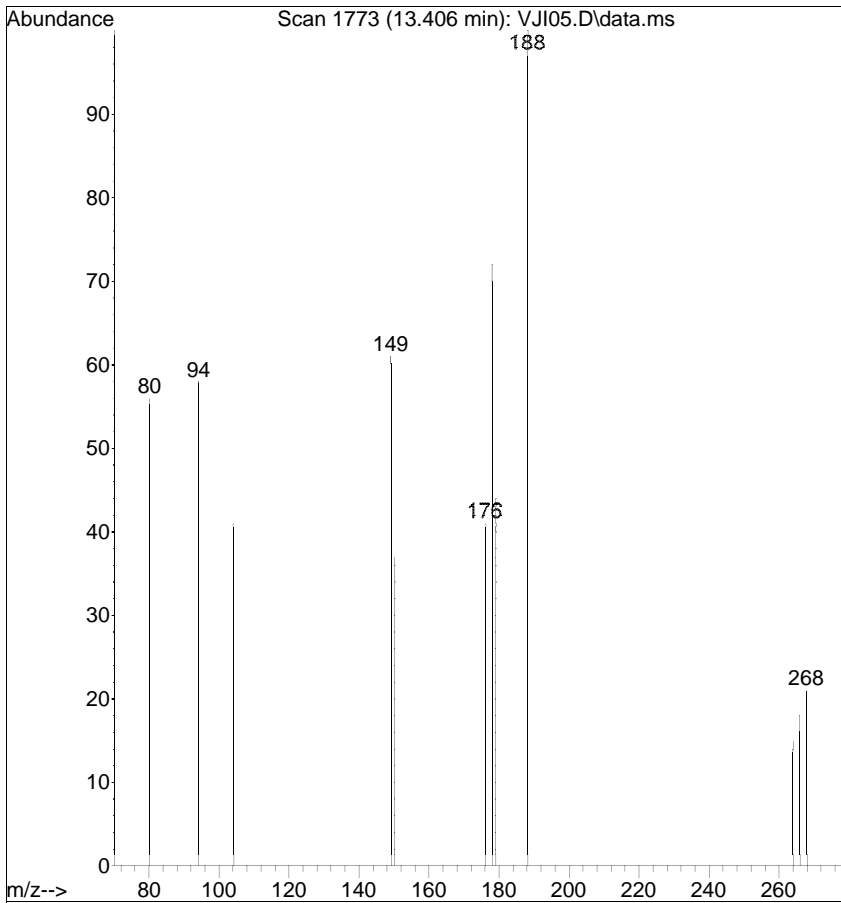
Tgt Ion	Resp	Lower	Upper
178	410		
178	100		
179	35.4	0.0	35.0#
176	29.0	0.0	38.9



Ref

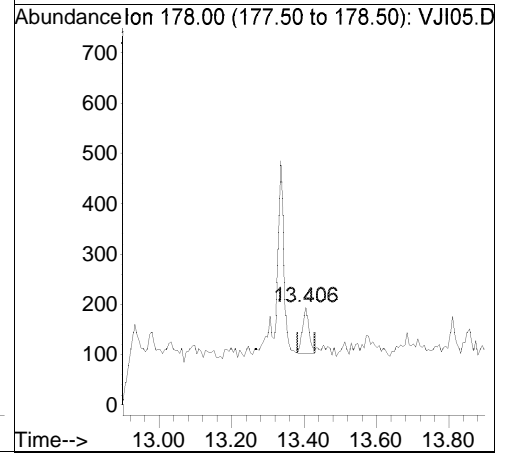


Raw

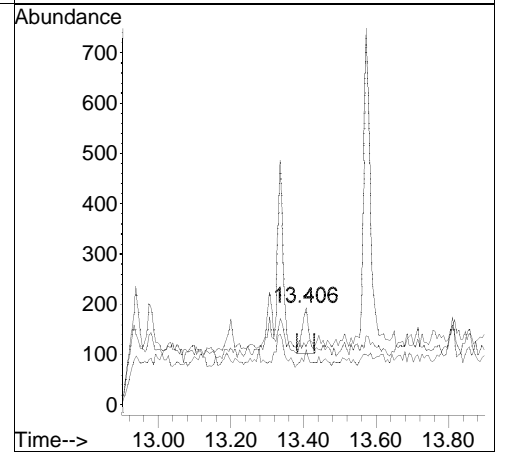
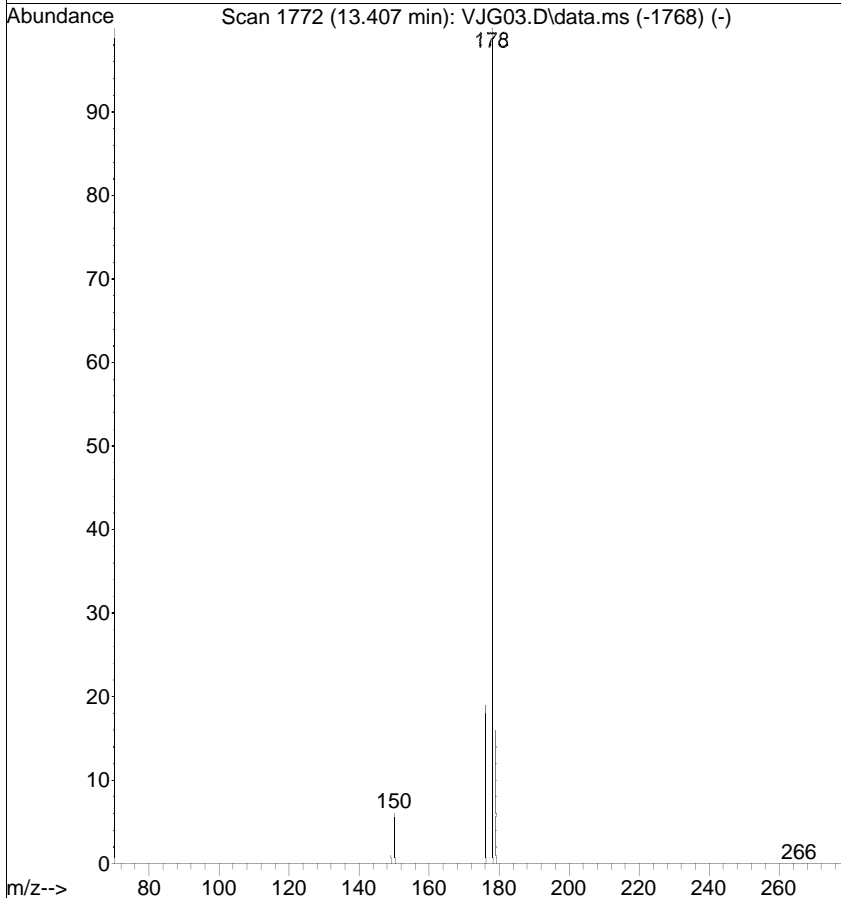


#16
 Anthracene
 Concen: 0.0009 ug/mL
 RT: 13.406 min Scan# 1773
 Delta R.T. -0.001 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

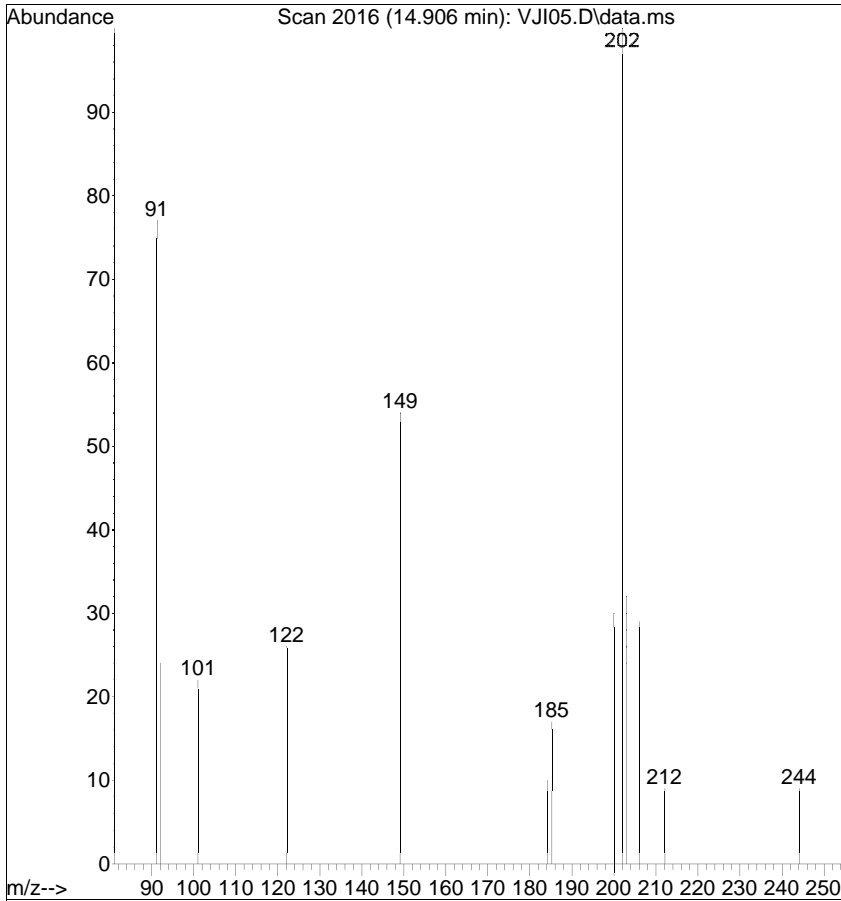
Tgt Ion	Ratio	Lower	Upper
178	100		
179	60.3	0.0	34.4#
176	56.2	0.0	39.5#



Ref

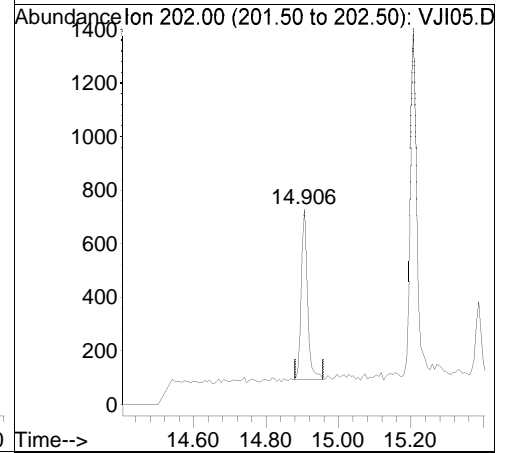


Raw

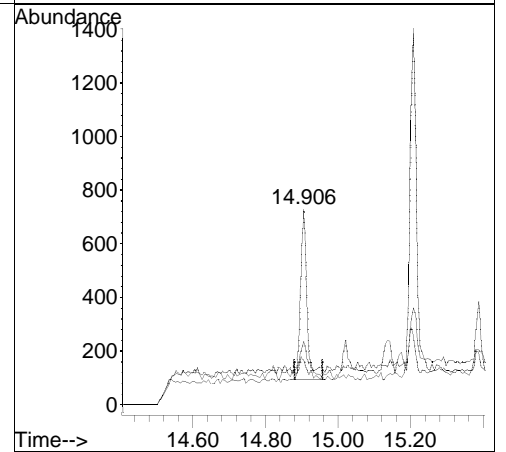
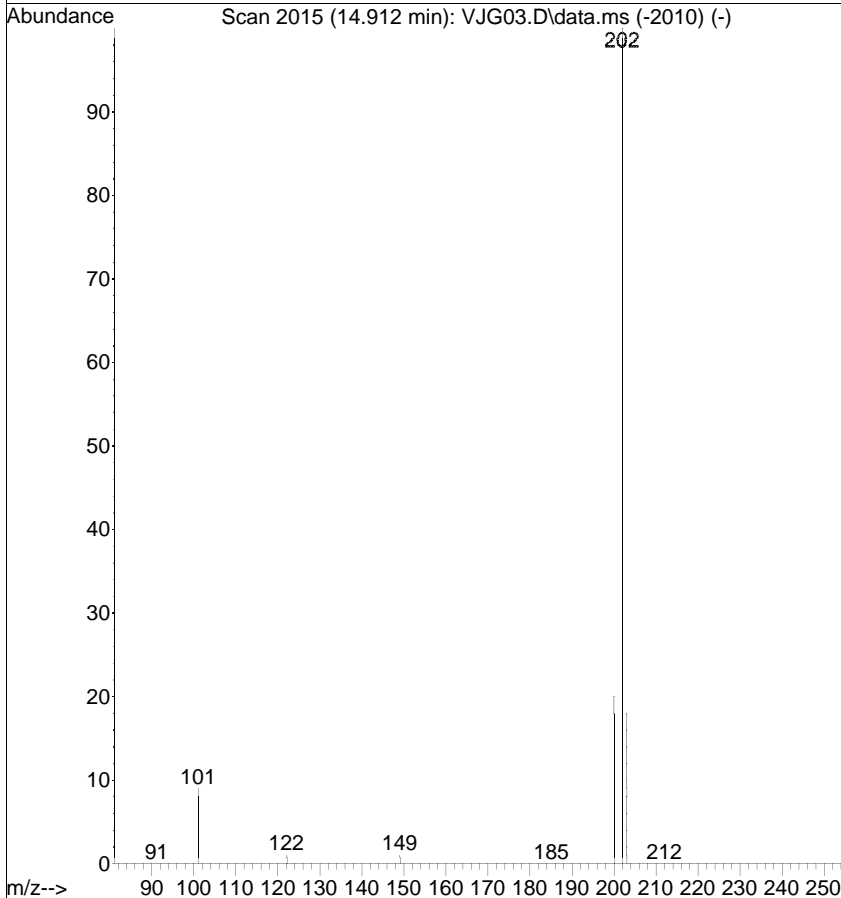


#17
 Fluoranthene
 Concen: 0.0048 ug/mL
 RT: 14.906 min Scan# 2016
 Delta R.T. -0.006 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

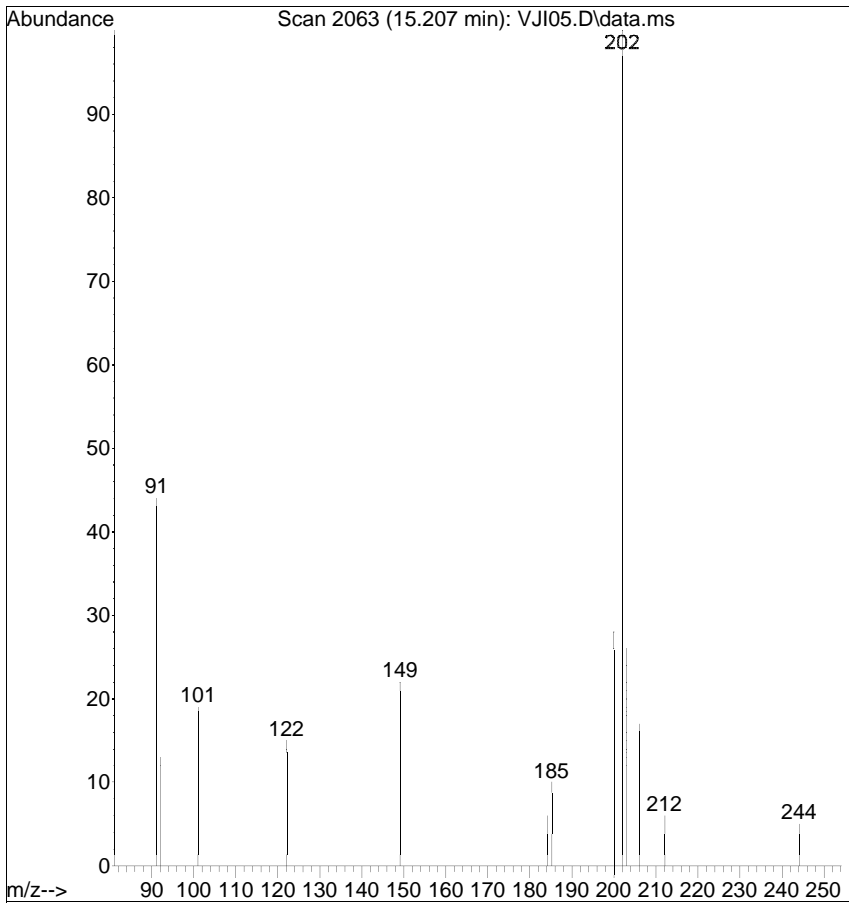
Tgt Ion	Resp	Lower	Upper
202	100		
101	22.5	0.0	21.1#
203	32.2	0.0	37.0



Ref

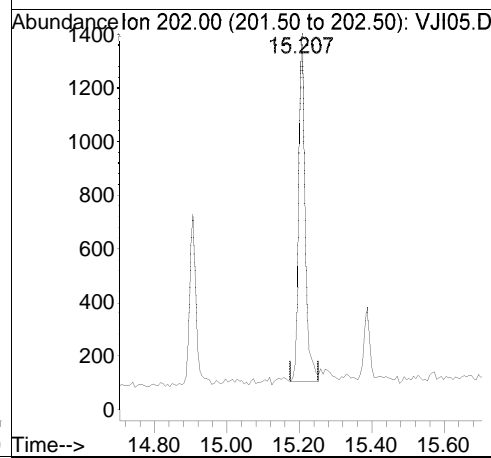


Raw

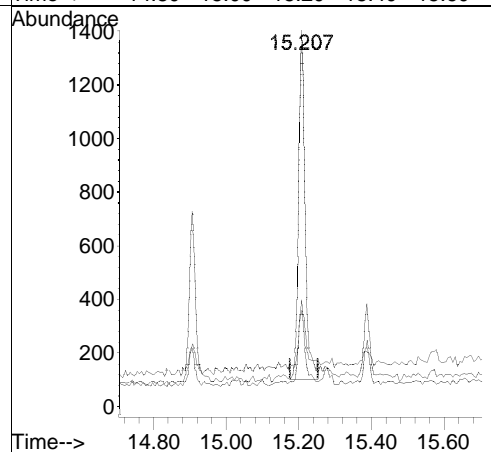
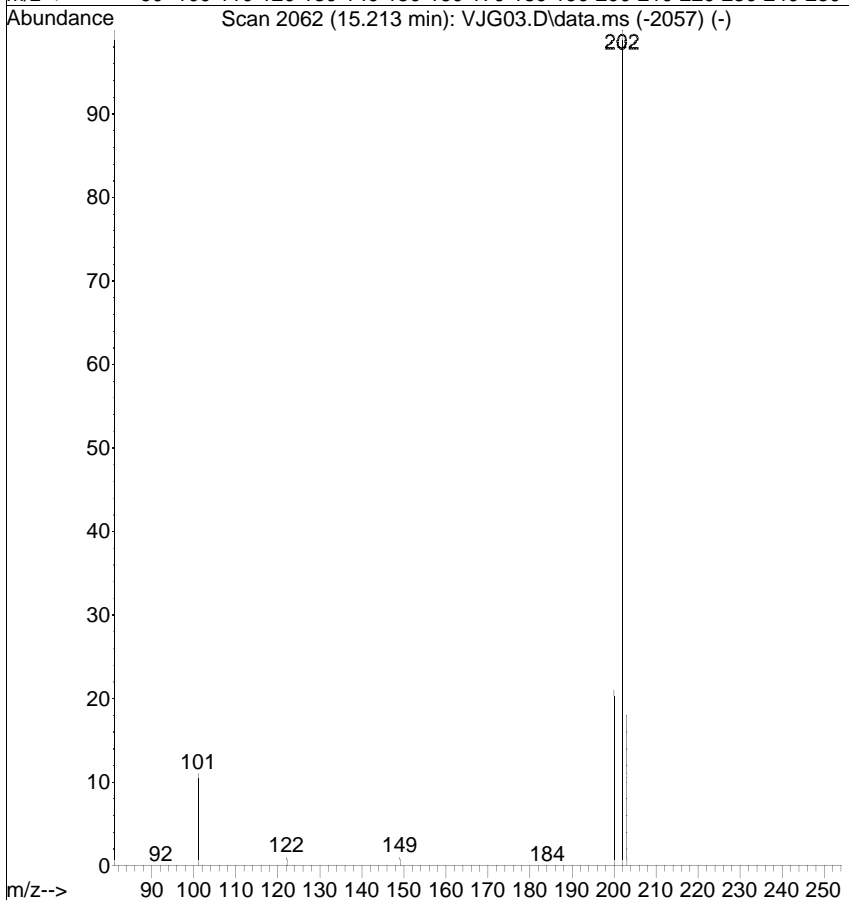


#19
 Pyrene
 Concen: 0.0104 ug/mL
 RT: 15.207 min Scan# 2063
 Delta R.T. -0.006 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

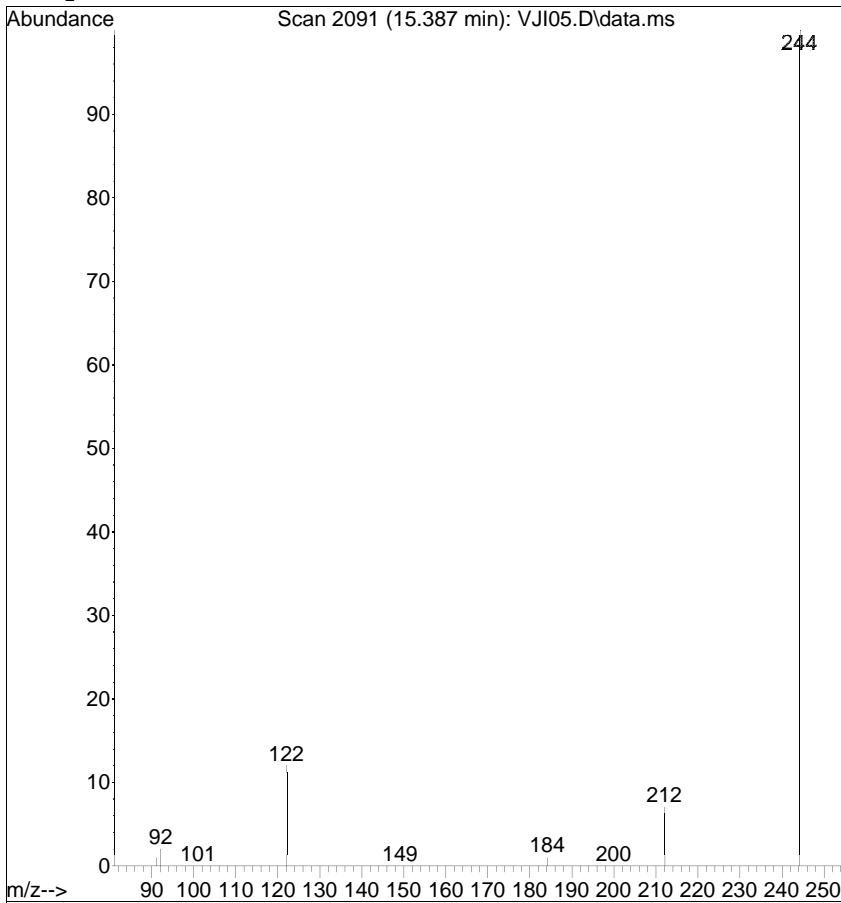
Tgt Ion	Resp	Lower	Upper
202	1586		
200	28.3	1.1	41.1
203	25.8	0.0	37.7



Ref

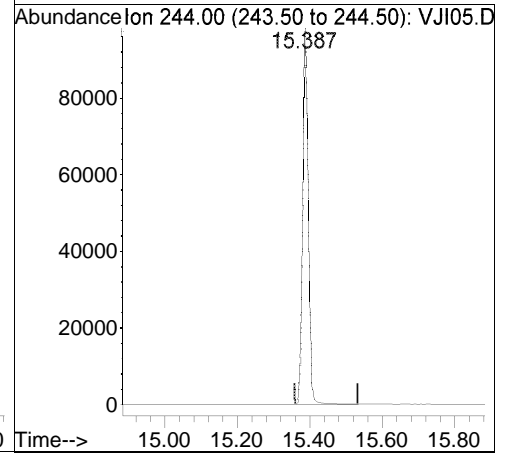


Raw

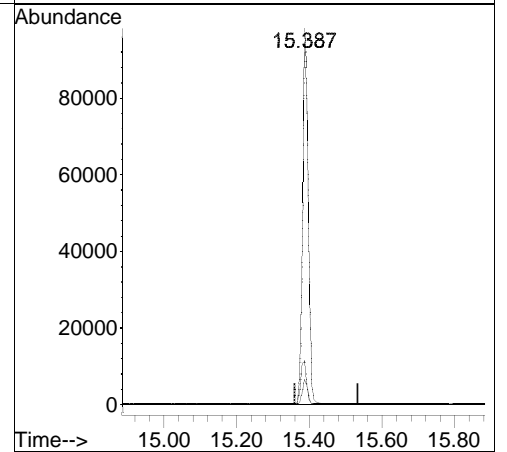
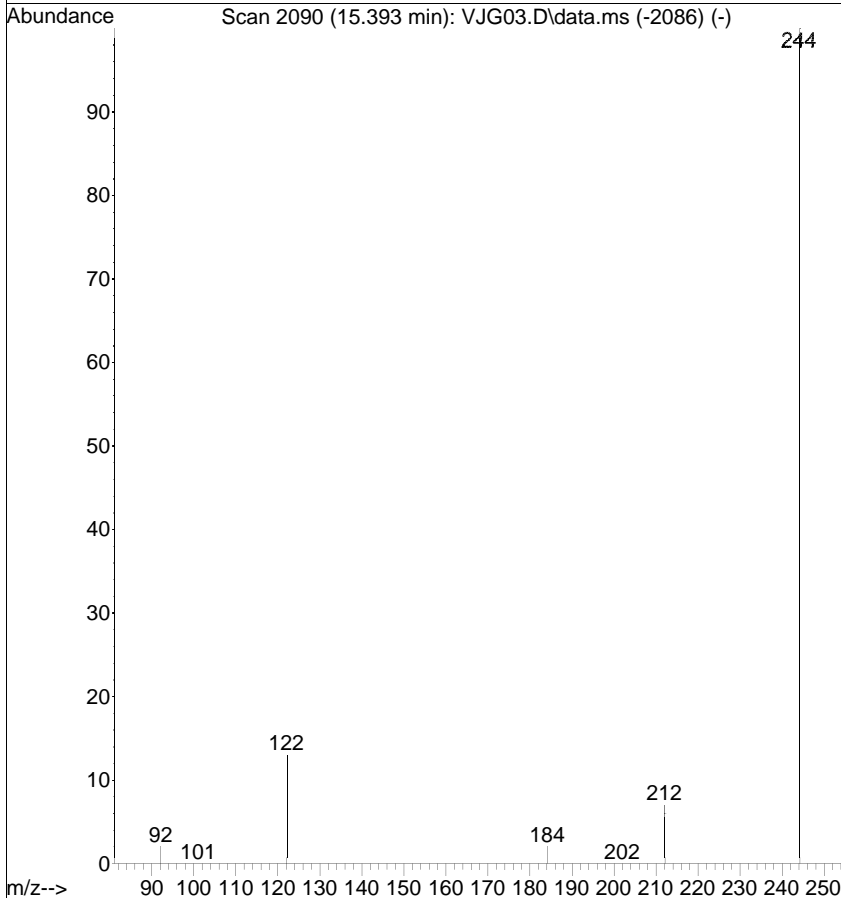


#20
 Terphenyl-d14
 Concen: 0.8153 ug/mL
 RT: 15.387 min Scan# 2091
 Delta R.T. -0.006 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

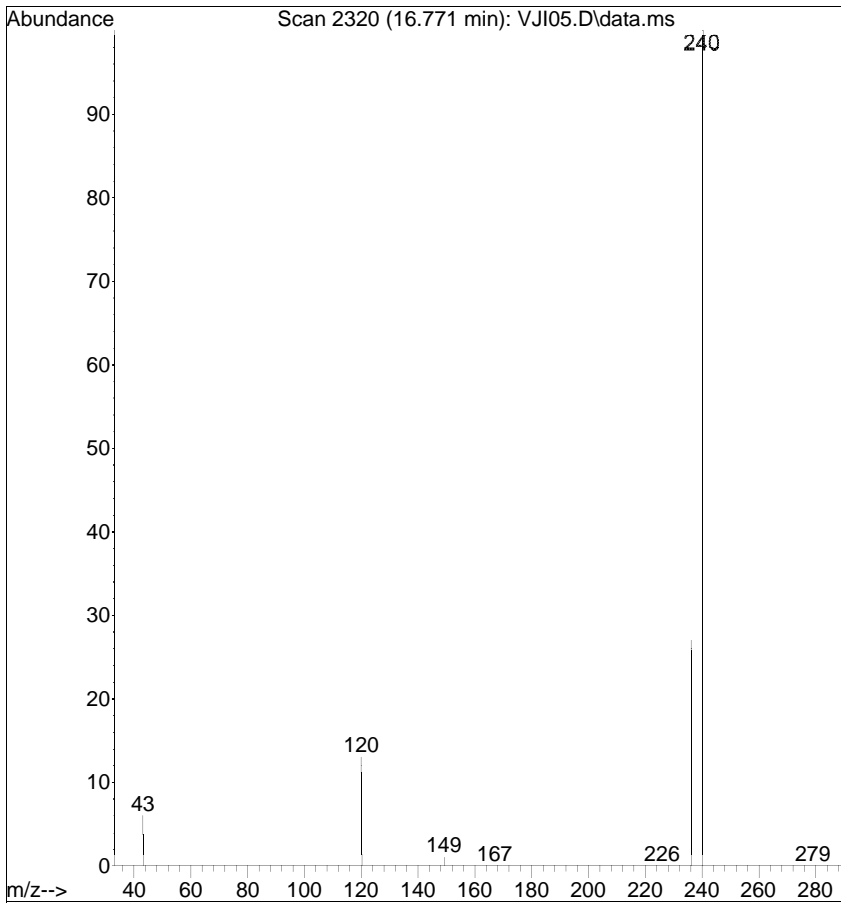
Tgt Ion	Resp	Lower	Upper
244	101367		
122	11.7	0.0	25.0
212	6.7	0.0	31.4



Ref

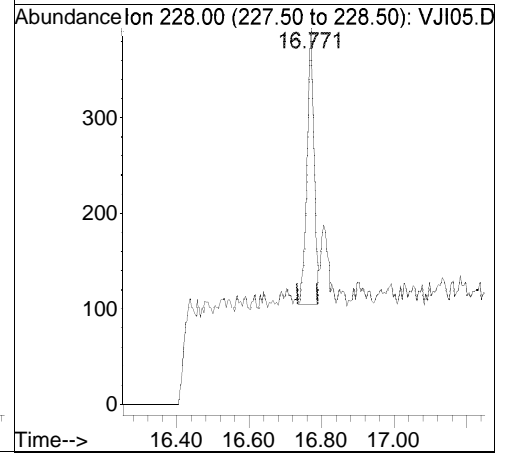


Raw

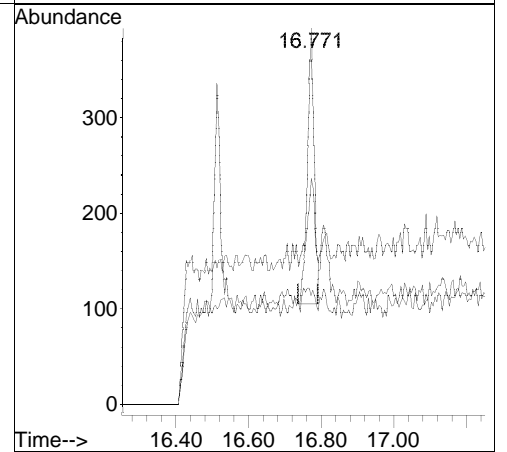
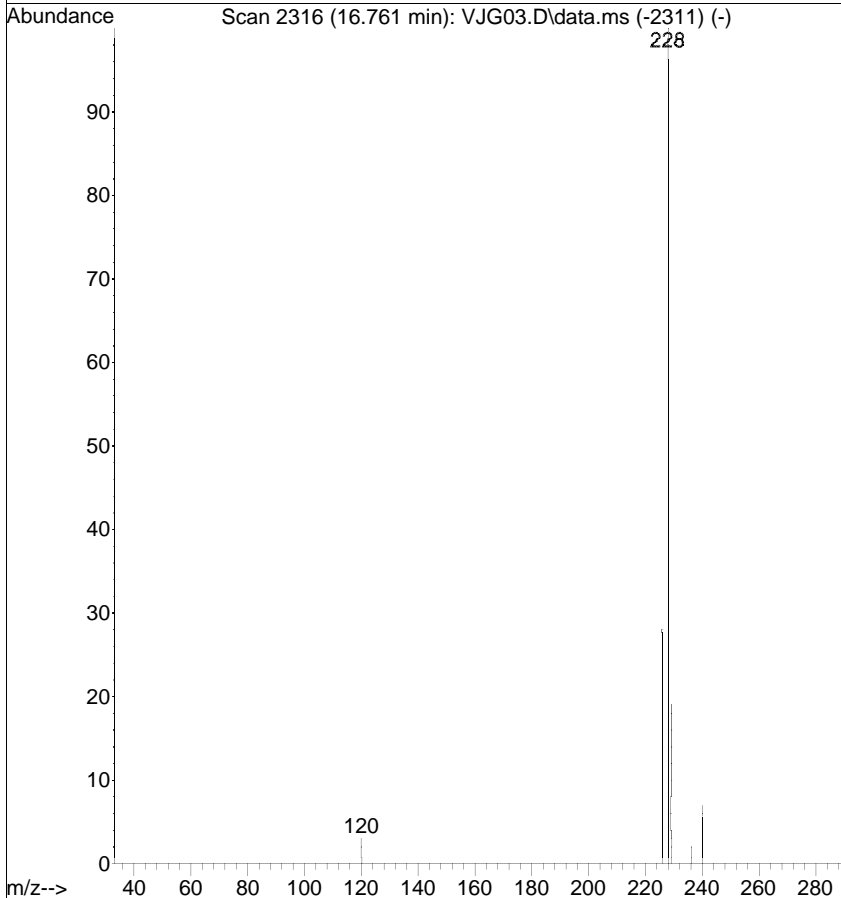


#21
 Benzo(a)anthracene
 Concen: 0.0027 ug/mL
 RT: 16.771 min Scan# 2320
 Delta R.T. 0.010 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

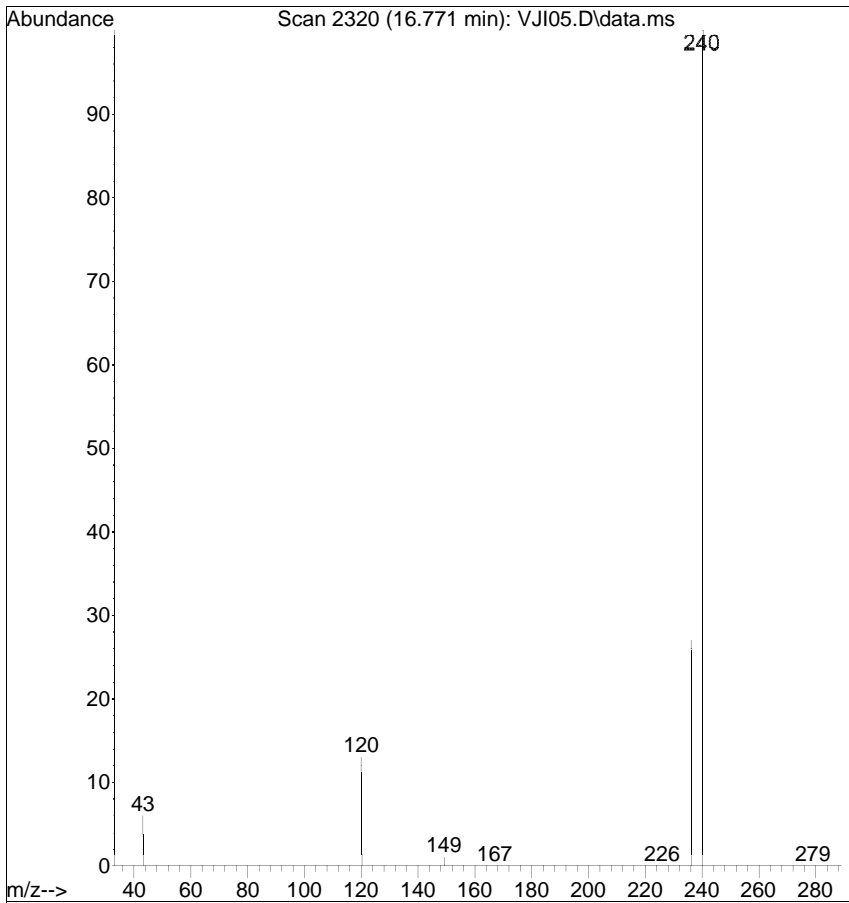
Tgt Ion	Ratio	Lower	Upper
228	100		
229	60.1	0.1	40.1#
226	29.0	9.3	49.3



Ref

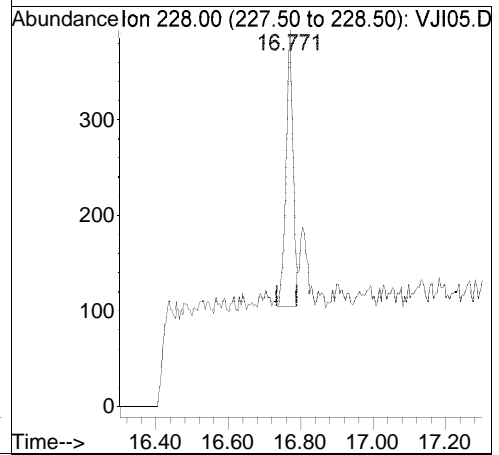


Raw

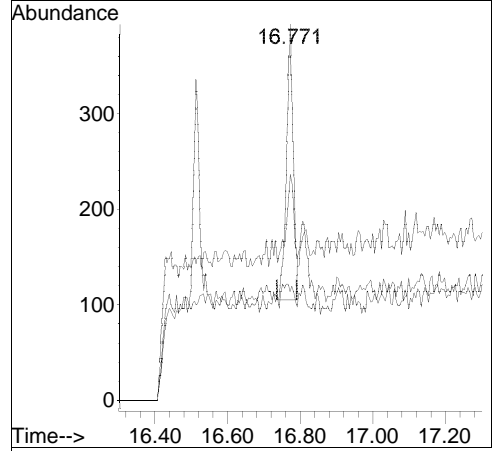
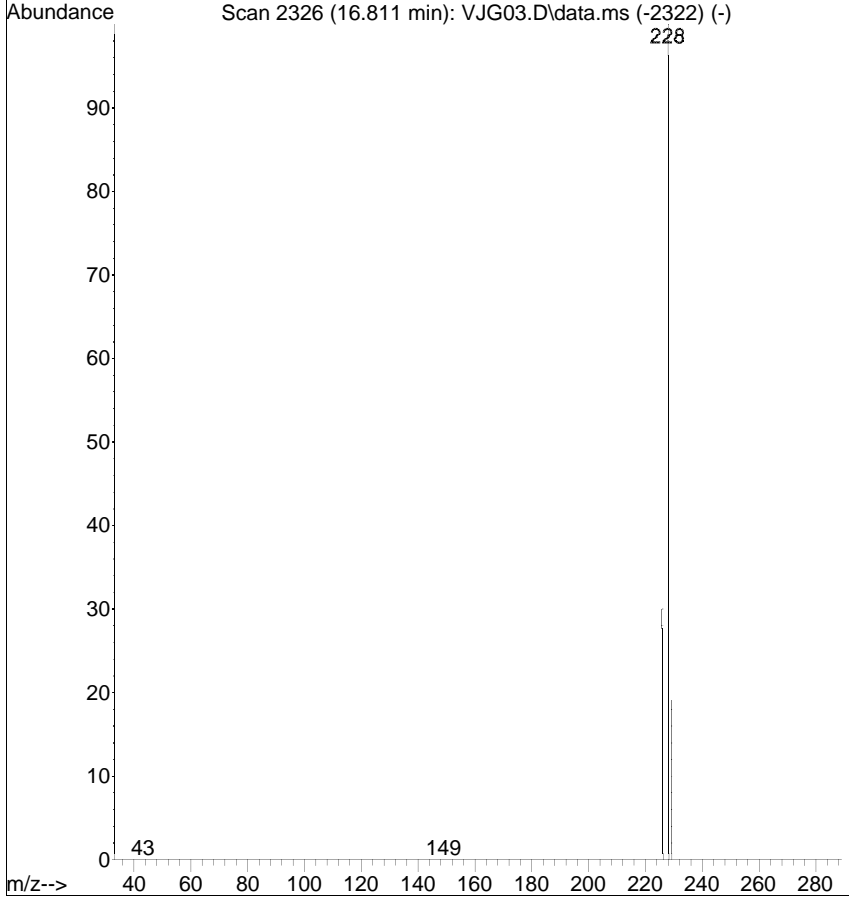


#22
 Chrysene
 Concen: 0.0028 ug/mL
 RT: 16.771 min Scan# 2320
 Delta R.T. -0.040 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

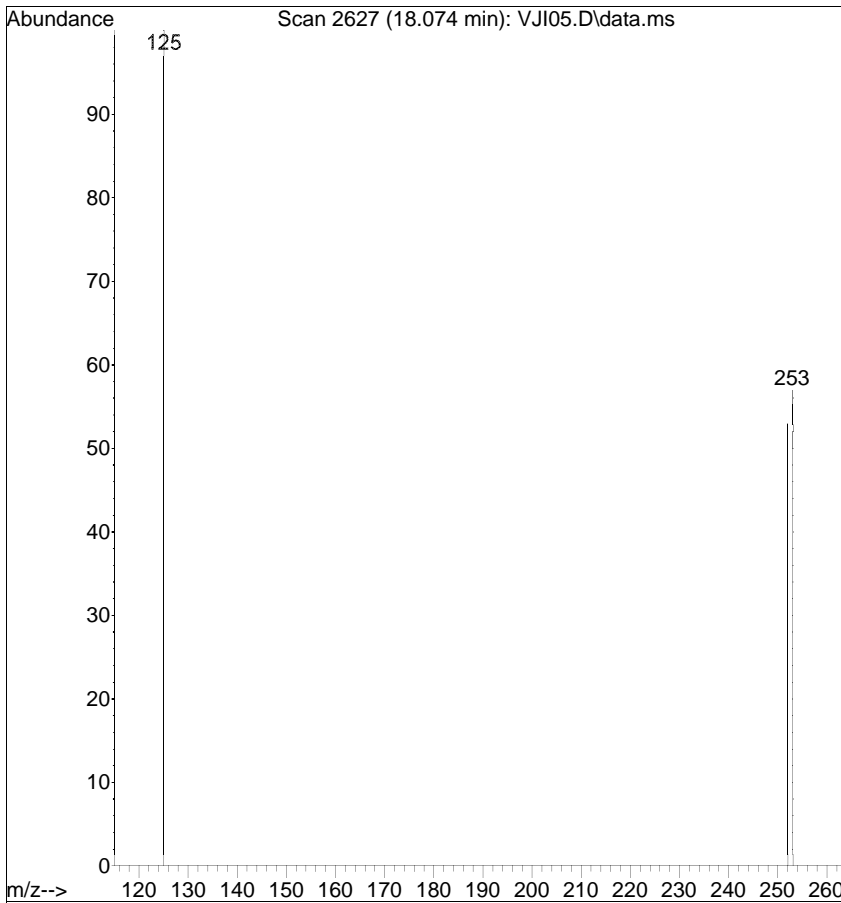
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	13.4	53.4
229	60.1	0.8	40.8#



Ref

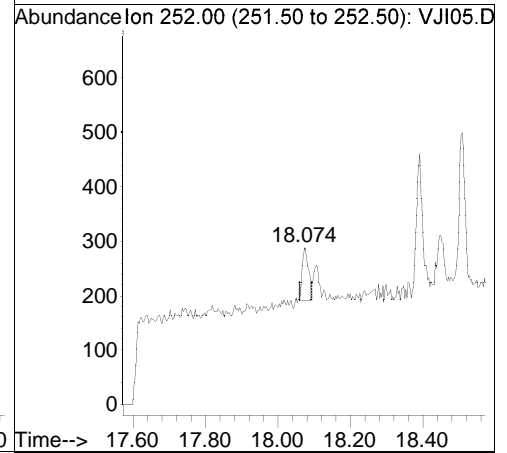


Raw

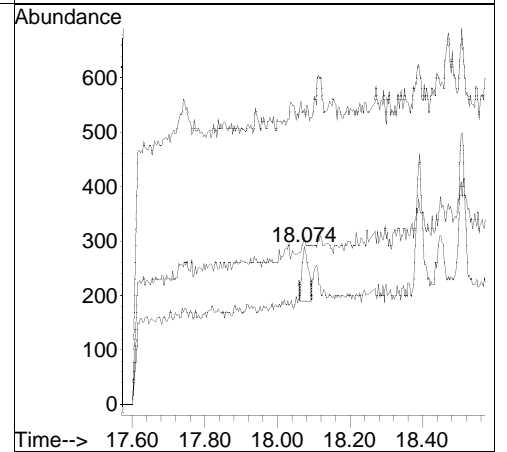
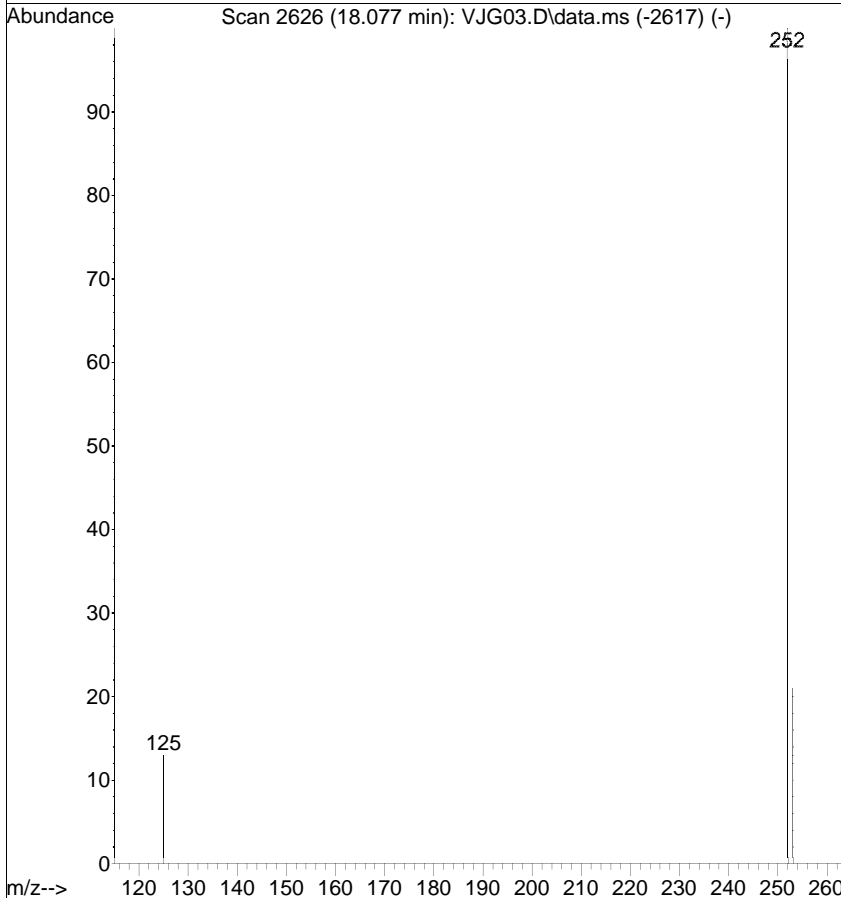


#24
 Benzo(b)fluoranthene
 Concen: 0.0010 ug/mL
 RT: 18.074 min Scan# 2627
 Delta R.T. -0.003 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

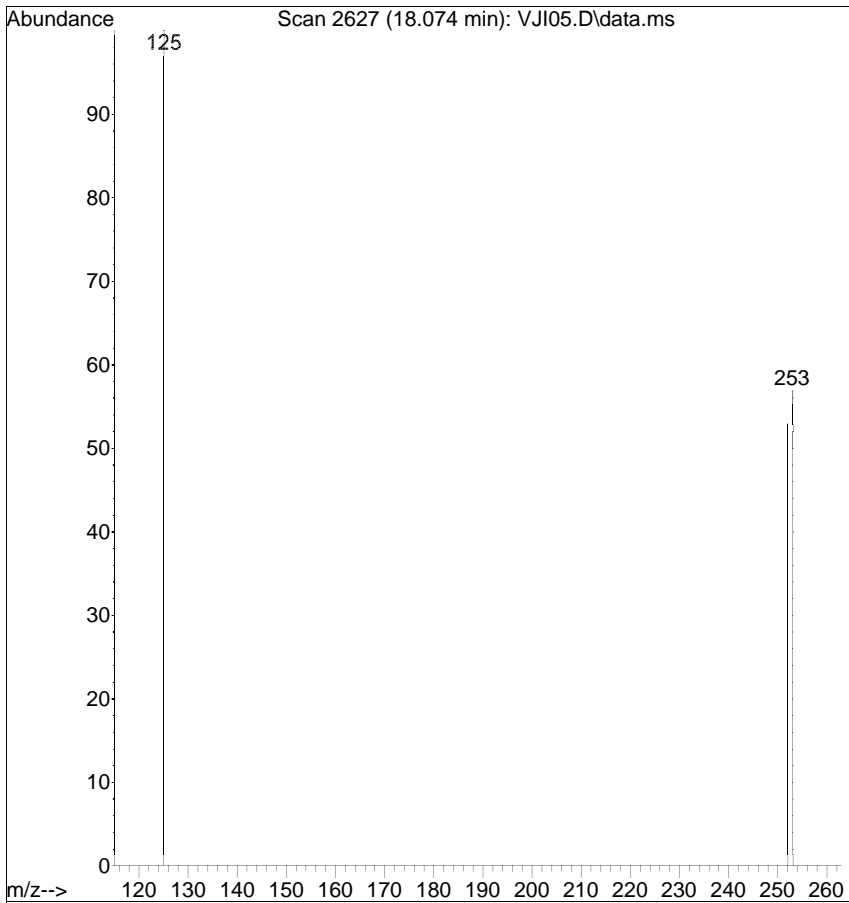
Tgt Ion	Ratio	Lower	Upper
252	100		
253	106.6	1.0	41.0#
125	187.9	0.0	20.9#



Ref

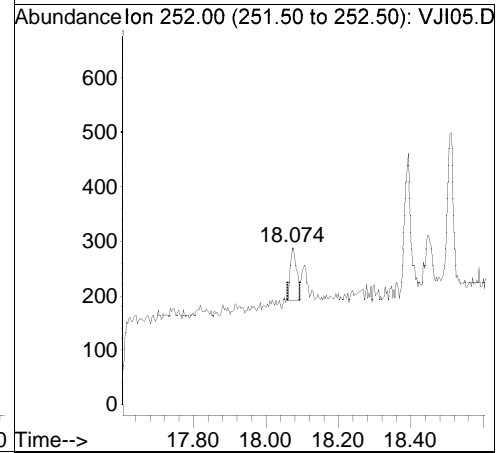


Raw

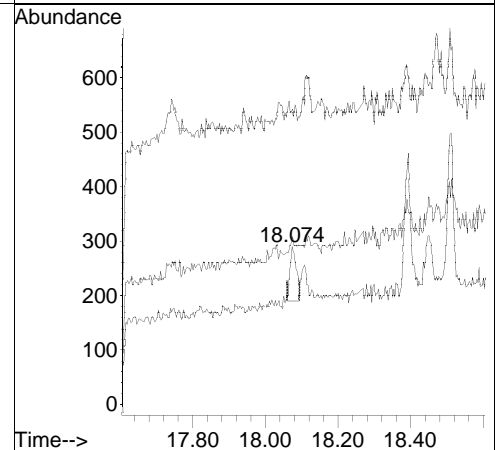
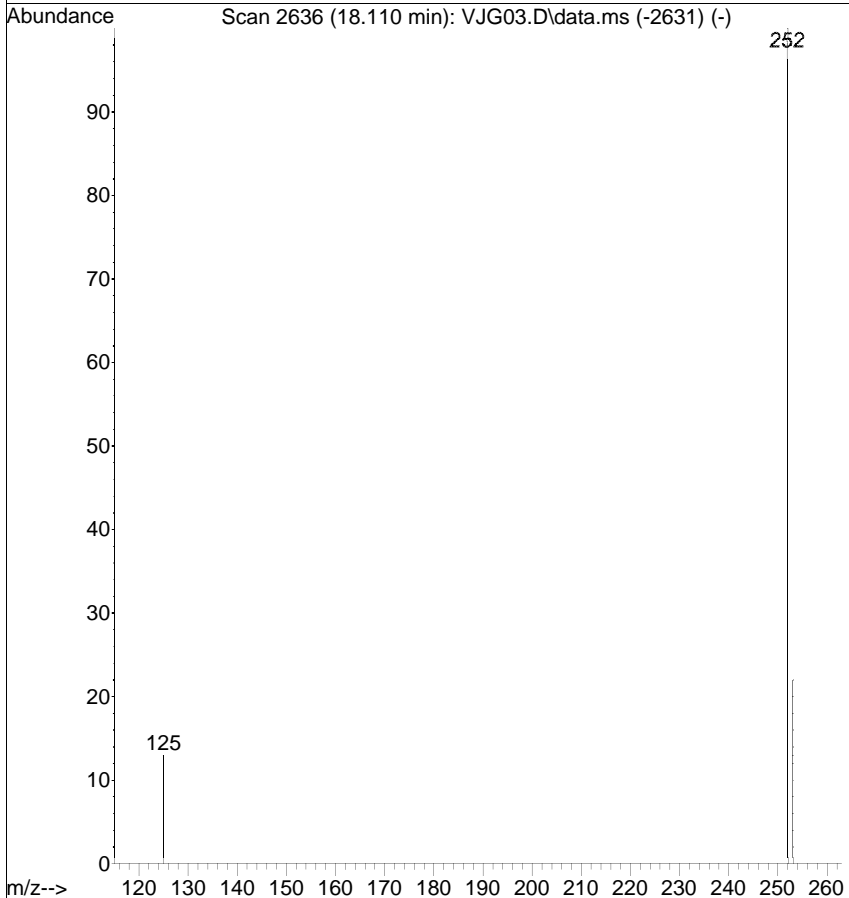


#25
 Benzo(k)fluoranthene
 Concen: 0.0010 ug/mL
 RT: 18.074 min Scan# 2627
 Delta R.T. -0.036 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

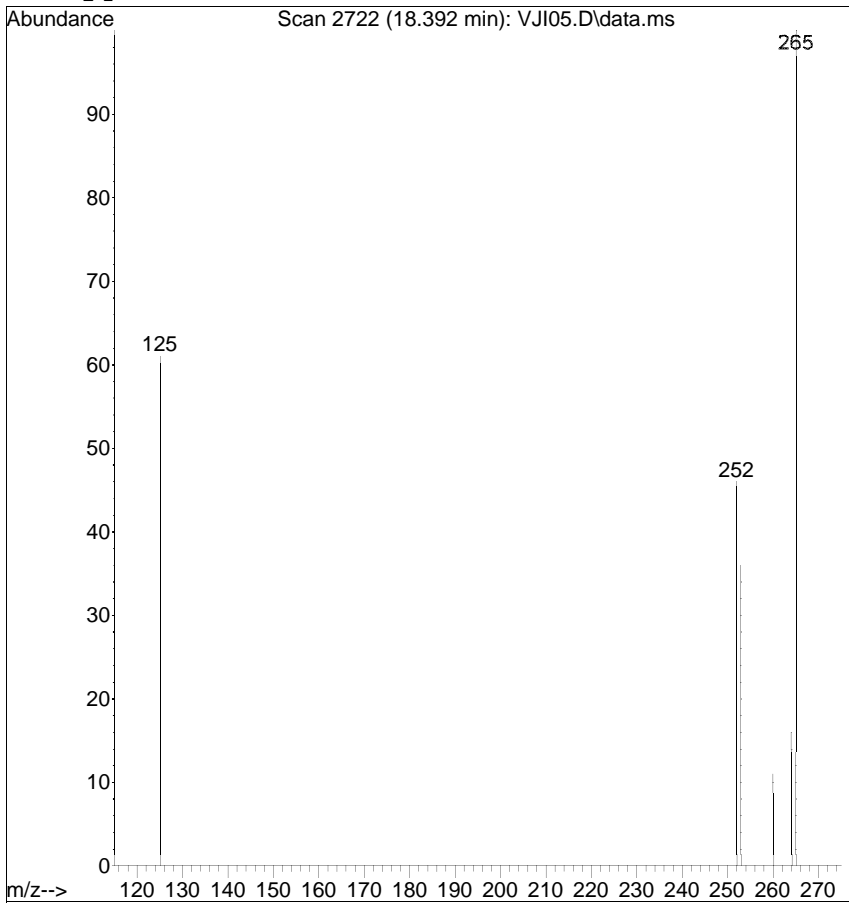
Tgt Ion	Resp	Lower	Upper
252	123		
252	100		
253	106.6	1.1	41.1#
125	187.9	0.0	21.1#



Ref

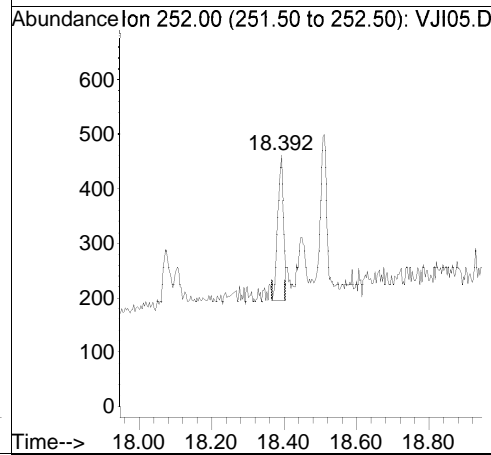


Raw

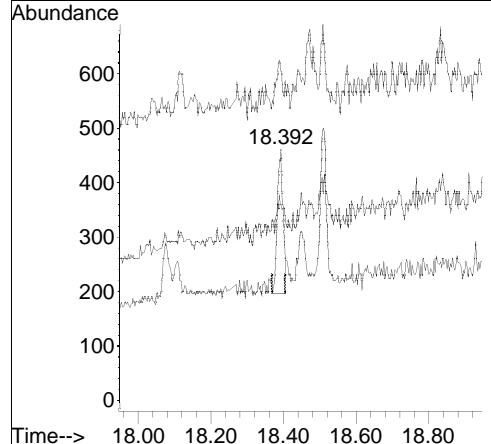
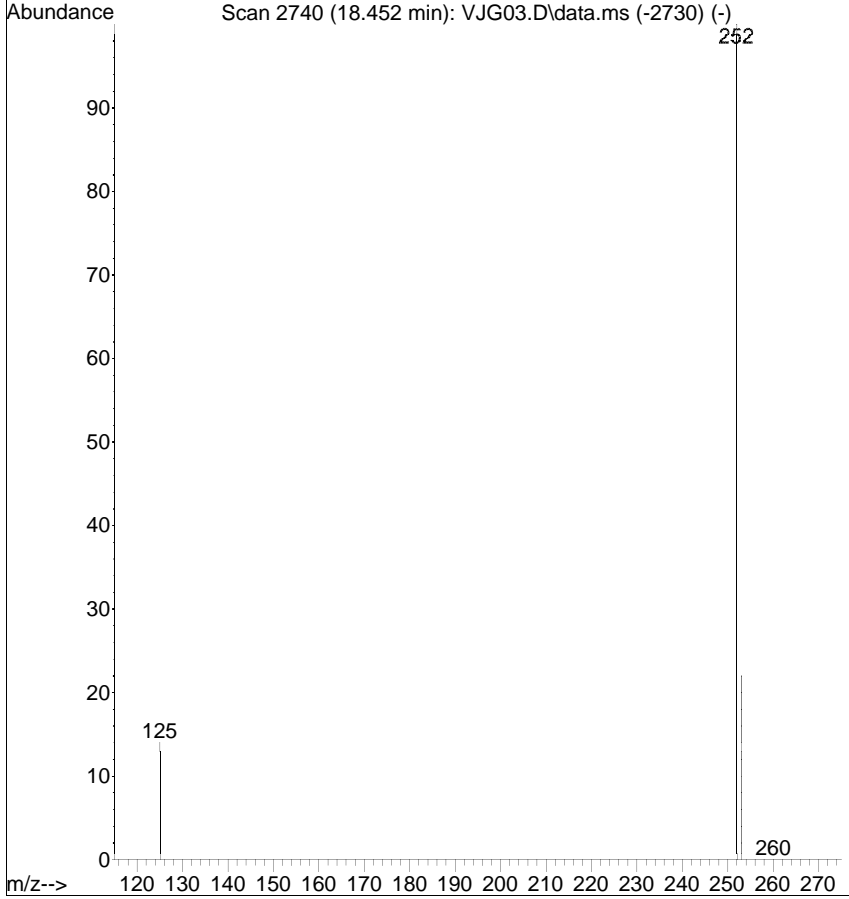


#26
 Benzo(a)pyrene
 Concen: 0.0027 ug/mL
 RT: 18.392 min Scan# 2722
 Delta R.T. -0.060 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

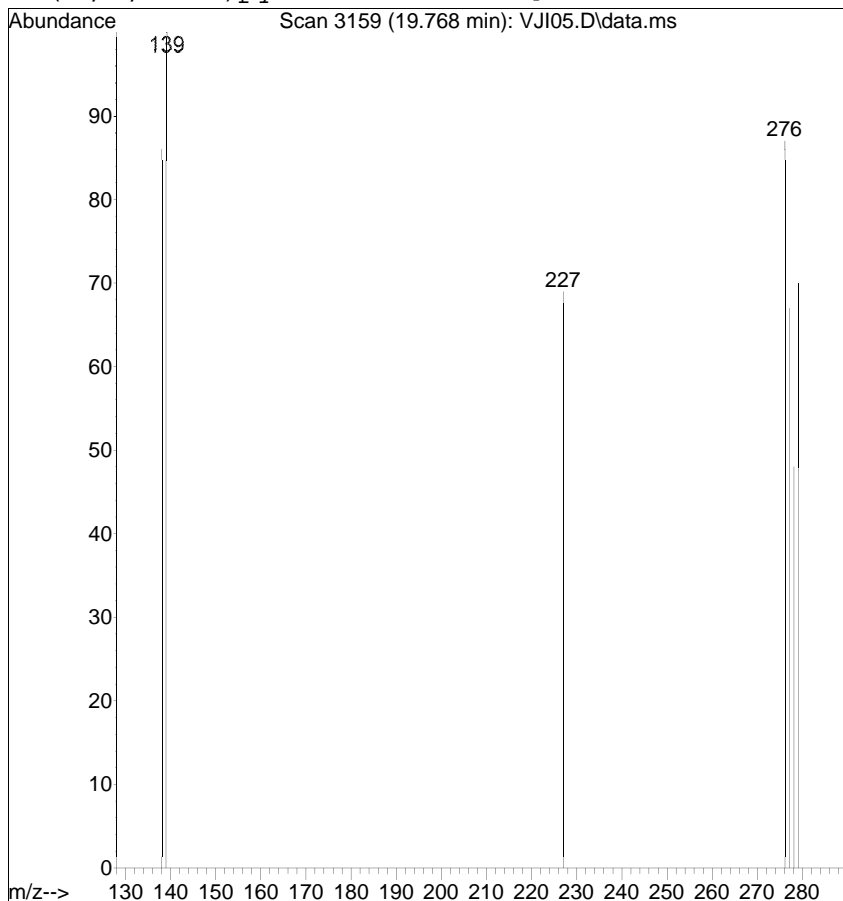
Tgt Ion	Ratio	Lower	Upper	Resp
252	100			289
253	77.7	3.4	43.4#	
125	133.2	0.0	20.9#	



Ref

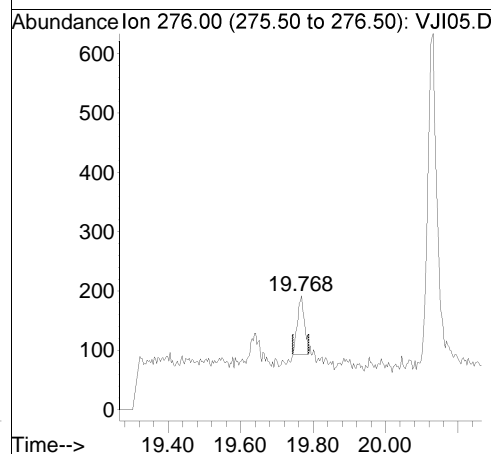


Raw

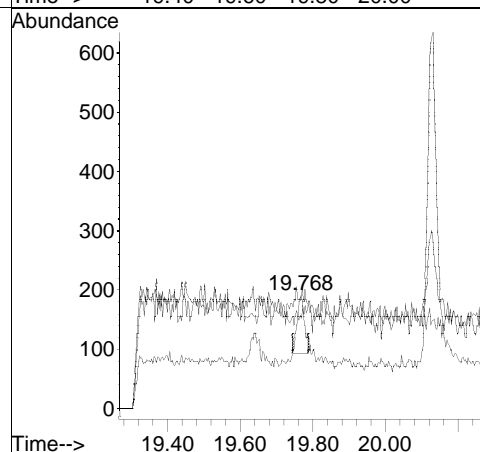
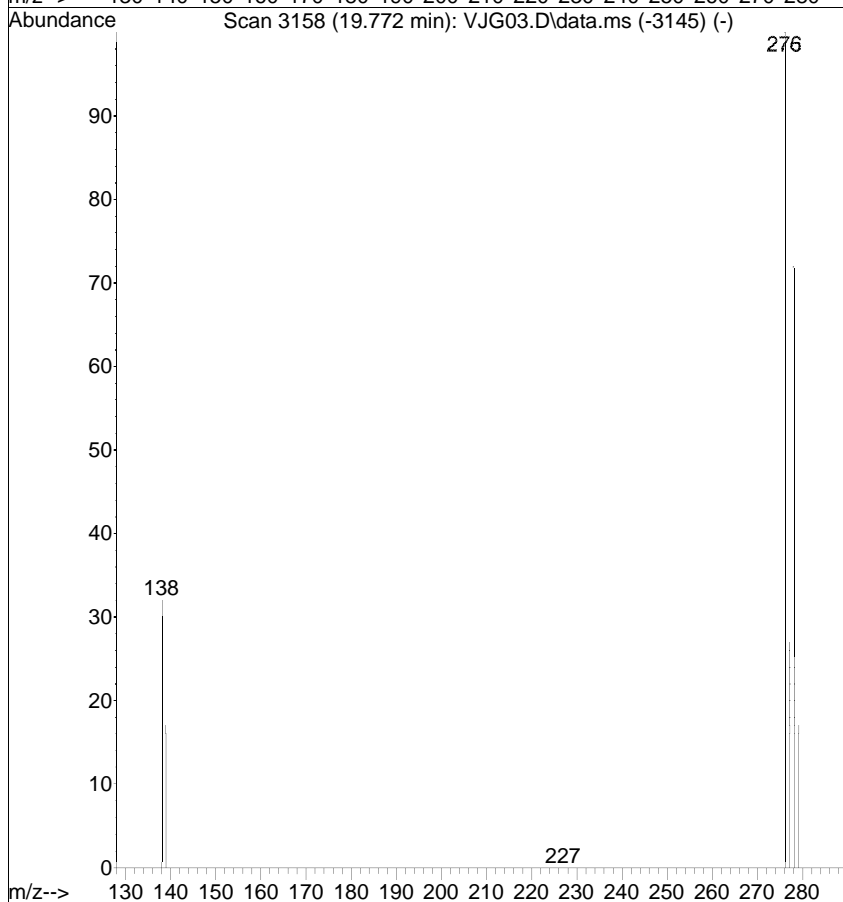


#27
 Indeno(1,2,3-cd)pyrene
 Concn: 0.0013 ug/mL
 RT: 19.768 min Scan# 3159
 Delta R.T. -0.004 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

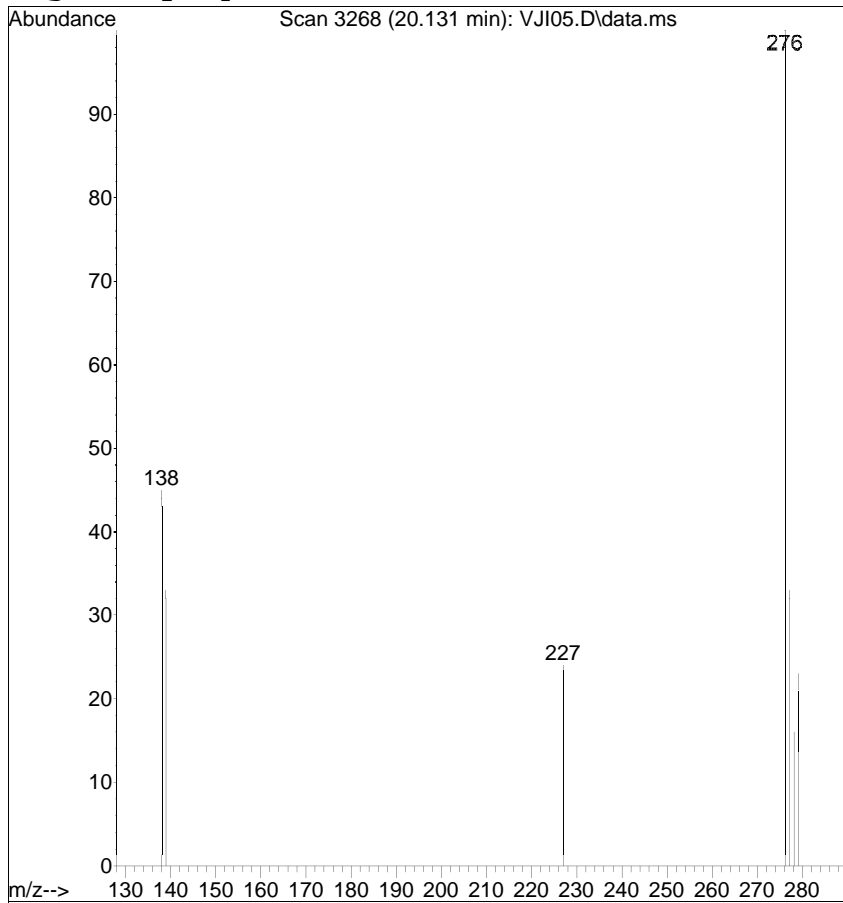
Tgt Ion	Ratio	Lower	Upper
276	100		
138	99.5	0.0	23.1#
227	79.2	0.0	21.0#



Ref

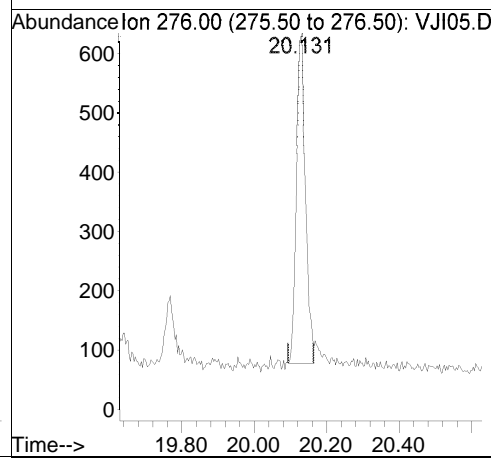


Raw

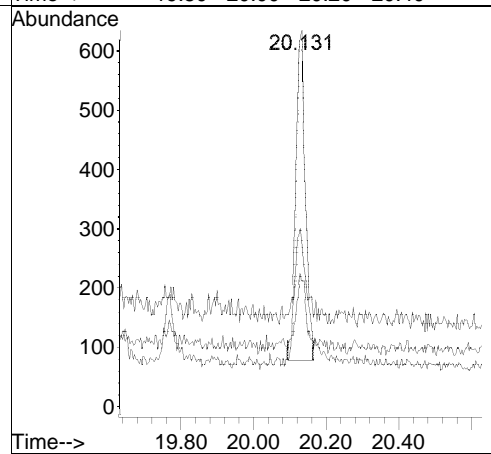
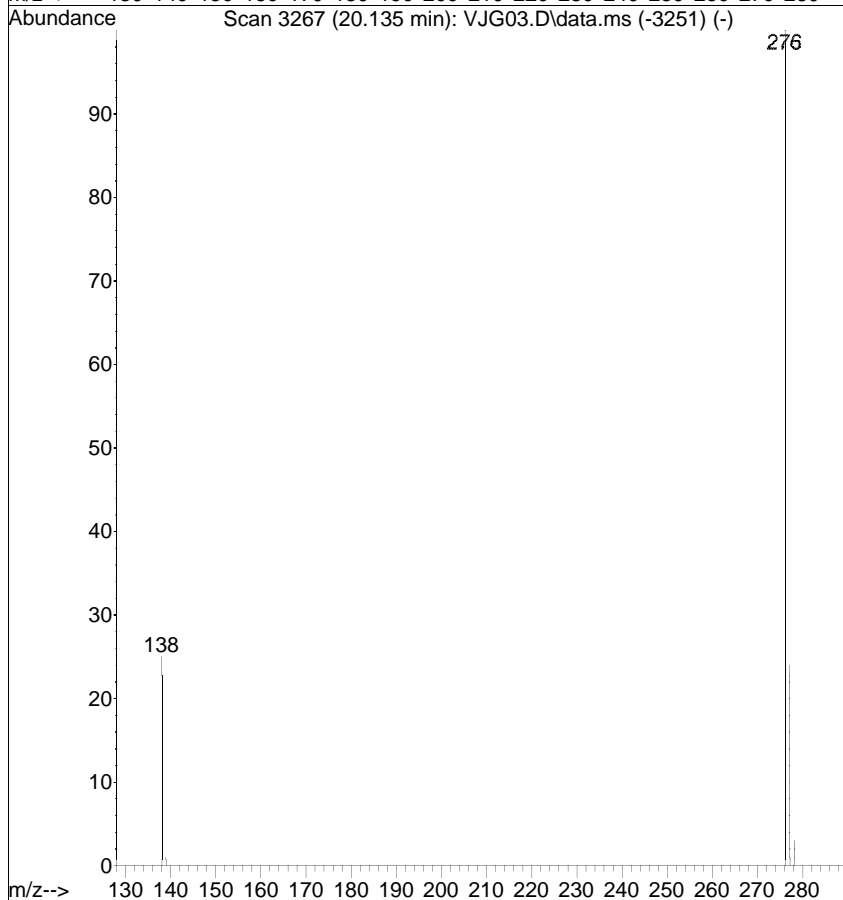


#29
 Benzo(g,h,i)perylene
 Concen: 0.0116 ug/mL
 RT: 20.131 min Scan# 3268
 Delta R.T. -0.004 min
 Lab File: VJI05.D
 Acq: 18 Oct 2018 11:28 am

Tgt Ion	Resp	Lower	Upper
276	100		
138	45.0	0.0	22.1#
277	33.4	2.5	42.5



Ref



QC Raw Data

ENTHALPY BLANK USER REPORT FOR 303845 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Lab ID : QC950896
Seqnum : 528408101023.2 Matrix : Water
File : vja23 Batch : 264323 Time : 10-OCT-2018 21:24
Cal : 528398235001 Caldate : 03-OCT-2018
IDF : 1.0 Raw Units : ug/mL Units : ug/L

1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	Raw	Result	RL	Flags
Naphthalene	0.002300	ND	0.1	u
Acenaphthylene	0	ND	0.1	u
Acenaphthene	0.003500	ND	0.1	u
Fluorene	0.002200	ND	0.1	u
Phenanthrene	0.002400	ND	0.1	u
Anthracene	0.002400	ND	0.1	u
Fluoranthene	0.002000	ND	0.1	u
Pyrene	0.003600	ND	0.1	u
Benzo(a)anthracene	0.002500	ND	0.1	u
Chrysene	0.0006000	ND	0.1	u
Benzo(b)fluoranthene	0.0008000	ND	0.1	u
Benzo(k)fluoranthene	0.0008000	ND	0.1	u
Benzo(a)pyrene	0.002500	ND	0.1	u
Indeno(1,2,3-cd)pyrene	0.008000	ND	0.1	u
Dibenz(a,h)anthracene	0	ND	0.1	u
Benzo(g,h,i)perylene	0.01030	ND	0.1	u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	1.126	1.000	1.126	113	48-124	c+ u
2-Fluorobiphenyl	0.7711	1.000	0.7711	77	51-120	u
Terphenyl-d14	0.9136	1.000	0.9136	91	25-120	u

ISTD (CCV vja06)	CCV Area	BLANK Area	%Drift	CCV RT	BLANK RT	Drift
Naphthalene-d8	120681	131177	8.70	9.04	9.04	0.00
Acenaphthene-d10	73056	85290	16.75	11.36	11.35	-0.01
Phenanthrene-d10	131399	156881	19.39	13.31	13.31	0.00
Chrysene-d12	105489	127828	21.18	16.78	16.78	0.00
Perylene-d12	87381	103133	18.03	18.52	18.51	-0.01

VQ 10/11/18 [Nitrobenzene-d5]: Recovery well within limits despite instrument bias [general version]

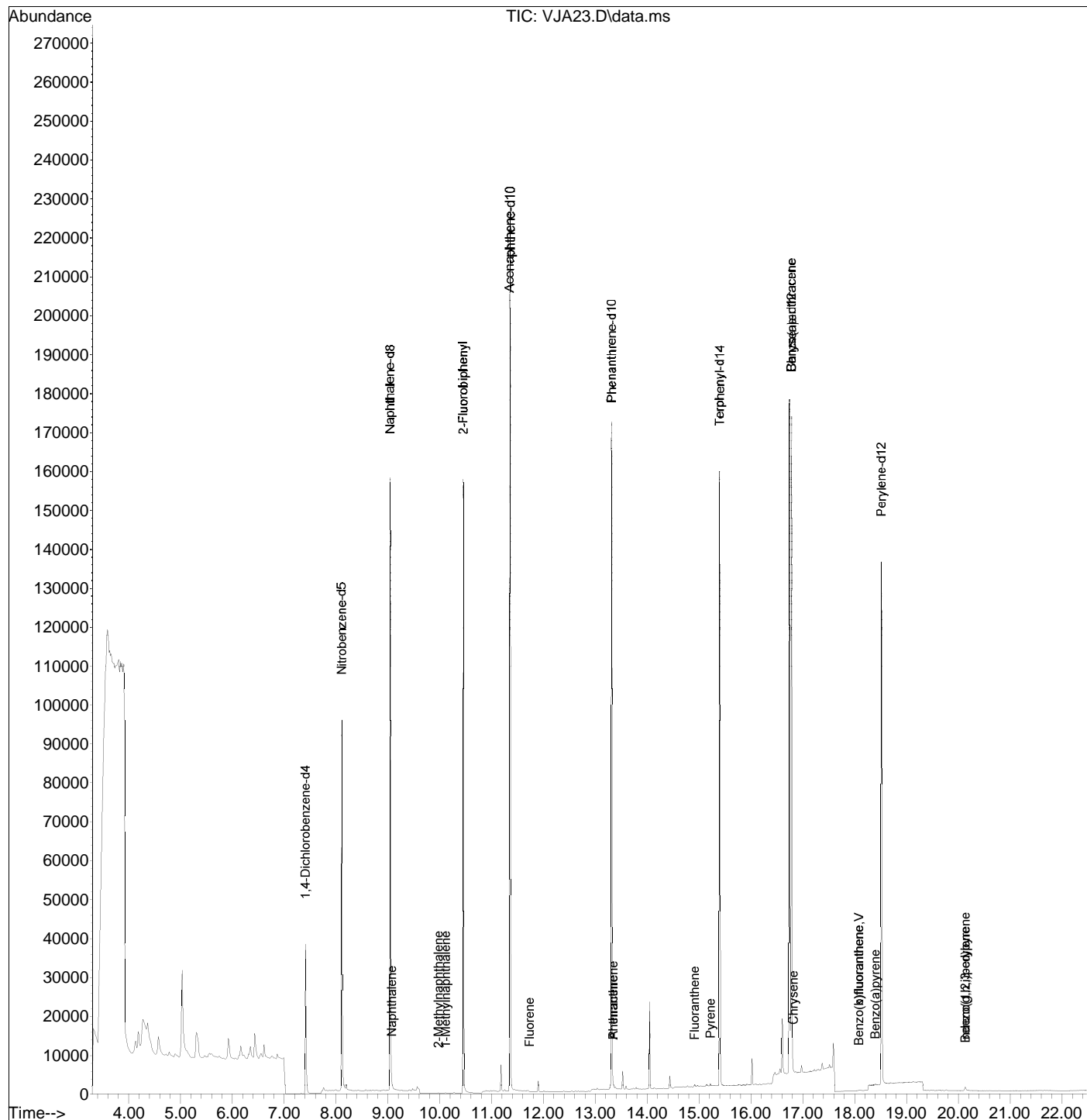
Analyst: YW1 Date: 10/18/18 Reviewer: LW Date: 10/18/18

+ = high bias c = CCV u = use

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101018\
 Data File : VJA23.D
 Acq On : 10 Oct 2018 9:24 pm
 Operator :
 Sample : mb,qc950896
 Misc : 264323,1,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 10 21:47:33 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Oct 04 09:32:01 2018
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101018\
 Data File : VJA23.D
 Acq On : 10 Oct 2018 9:24 pm
 Operator :
 Sample : mb, qc950896
 Misc : 264323,1,
 ALS Vial : 21 Sample Multiplier: 1

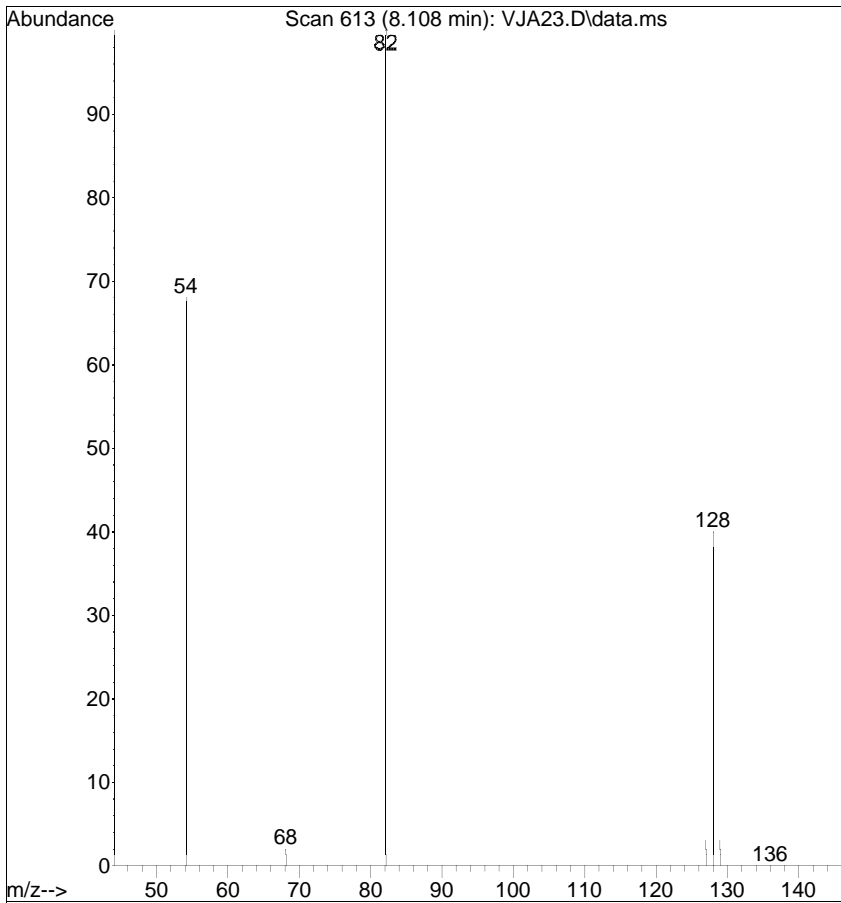
Quant Time: Oct 10 21:47:33 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Oct 04 09:32:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.410	152	31626	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.041	136	131177	1.0000	ug/mL	-0.01
8) Acenaphthene-d10	11.351	164	85290	1.0000	ug/mL	-0.02
13) Phenanthrene-d10	13.312	188	156881	1.0000	ug/mL	-0.01
18) Chrysene-d12	16.776	240	127828	1.0000	ug/mL	-0.02
23) Perylene-d12	18.512	264	103133	1.0000	ug/mL	-0.02

Target Compounds	R.T.	QIon	Response	Conc.	Units	Rel.RT	Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.			
4) Nitrobenzene-d5	8.108	82	47056	1.1259	ug/mL		89
5) Naphthalene	9.072	128	308	0.0023	ug/mL		57
6) 2-Methylnaphthalene	9.973	142	103	0.0010	ug/mL		82
7) 1-Methylnaphthalene	10.109	142	111	0.0012	ug/mL	#	77
9) 2-Fluorobiphenyl	10.450	172	107247	0.7711	ug/mL		91
10) Acenaphthylene	0.000	152	0	N.D.			
11) Acenaphthene	11.351	154	324	0.0035	ug/mL	#	29
12) Fluorene	11.725	166	249	0.0022	ug/mL	#	1
14) _Pentachlorophenol	0.000	266	0	N.D.			
15) Phenanthrene	13.342	178	390	0.0024	ug/mL	#	58
16) Anthracene	13.342	178	390	0.0024	ug/mL	#	58
17) Fluoranthene	14.911	202	390	0.0020	ug/mL	#	56
19) Pyrene	15.212	202	644	0.0036	ug/mL		77
20) Terphenyl-d14	15.392	244	132900	0.9136	ug/mL		84
21) Benzo(a)anthracene	16.776	228	401	0.0025	ug/mL	#	69
22) Chrysene	16.810	228	100	0.0006	ug/mL	#	39
24) Benzo(b)fluoranthene	18.078	252	105	0.0008	ug/mL	#	1
25) Benzo(k)fluoranthene	18.078	252	105	0.0008	ug/mL	#	1
26) Benzo(a)pyrene	18.392	252	295	0.0025	ug/mL	#	1
27) Indeno(1,2,3-cd)pyrene	20.130	276	931	0.0080	ug/mL	#	1
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.			
29) Benzo(g,h,i)perylene	20.130	276	940	0.0103	ug/mL	#	67

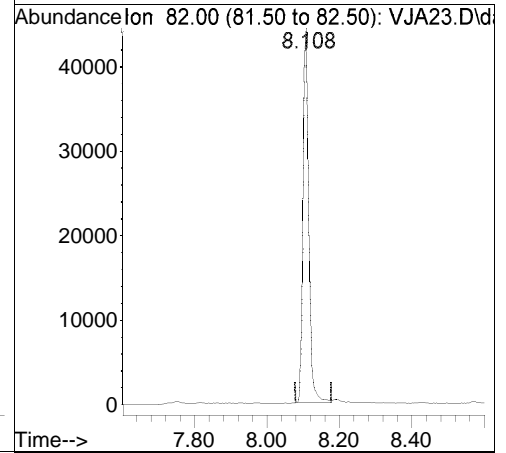
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

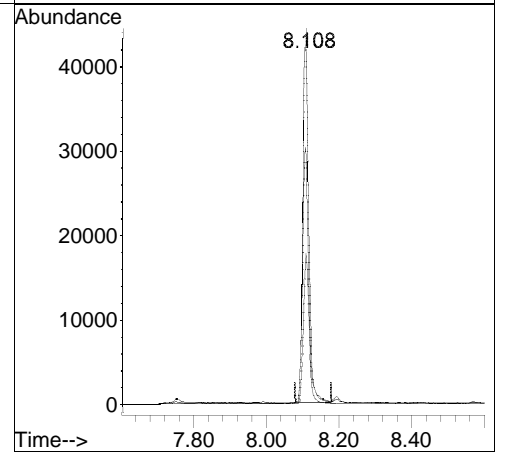
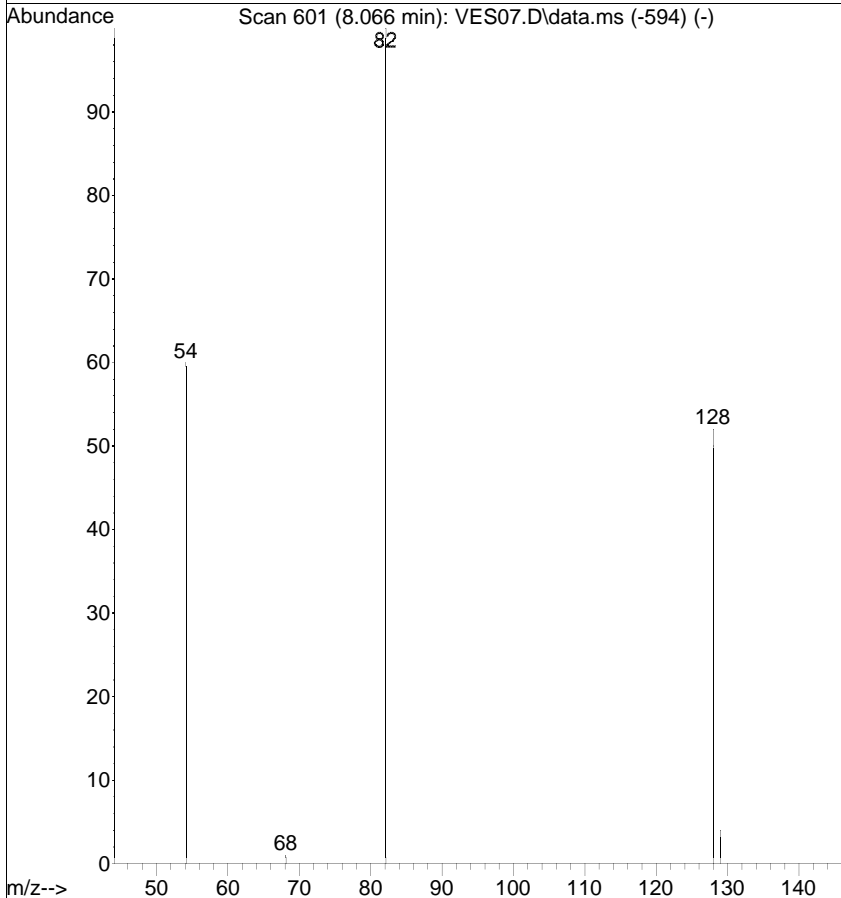


#4
 Nitrobenzene-d5
 Concen: 1.1259 ug/mL
 RT: 8.108 min Scan# 613
 Delta R.T. -0.005 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

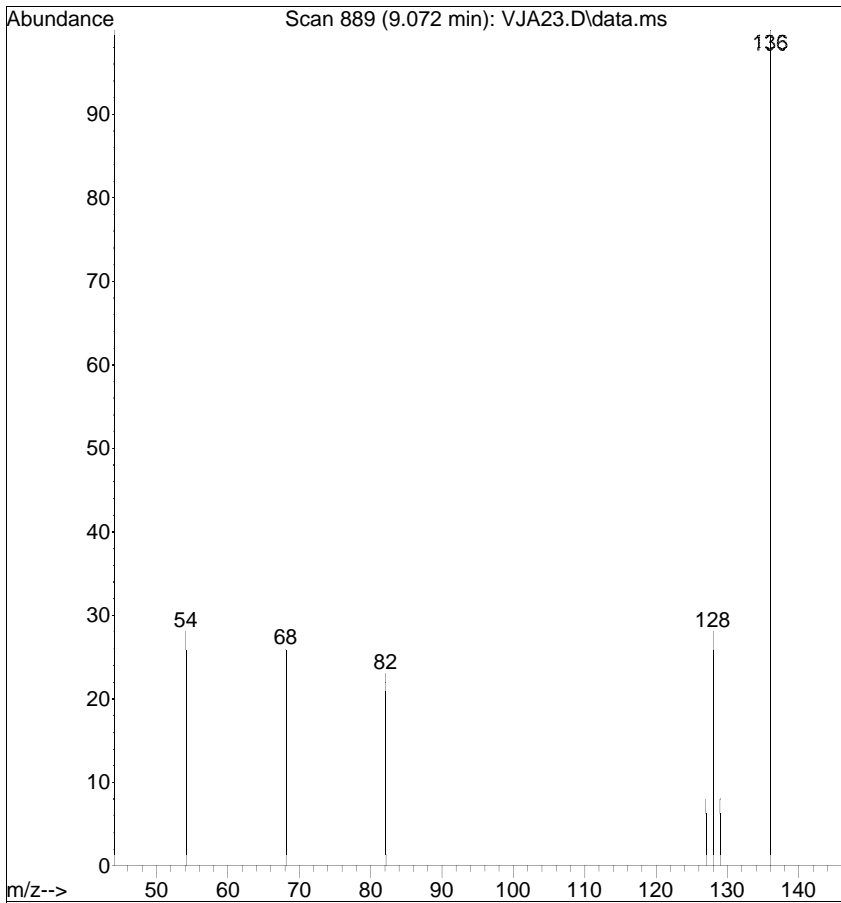
Tgt Ion	Resp	Lower	Upper
82	47056		
128	40.1	10.5	50.5
54	68.5	56.2	96.2



Ref

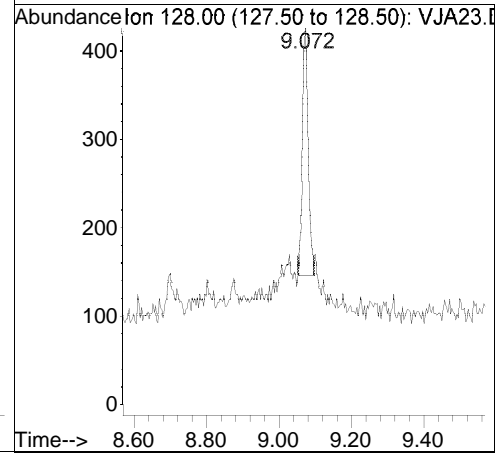


Raw

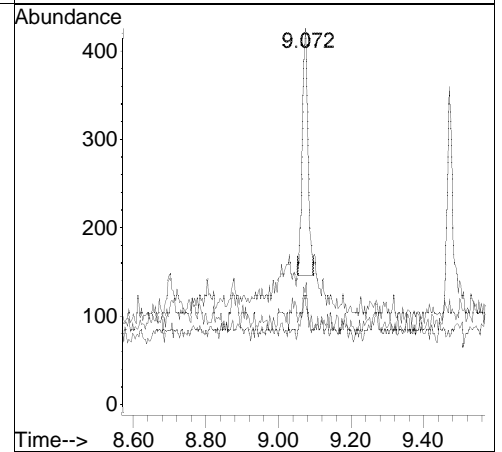
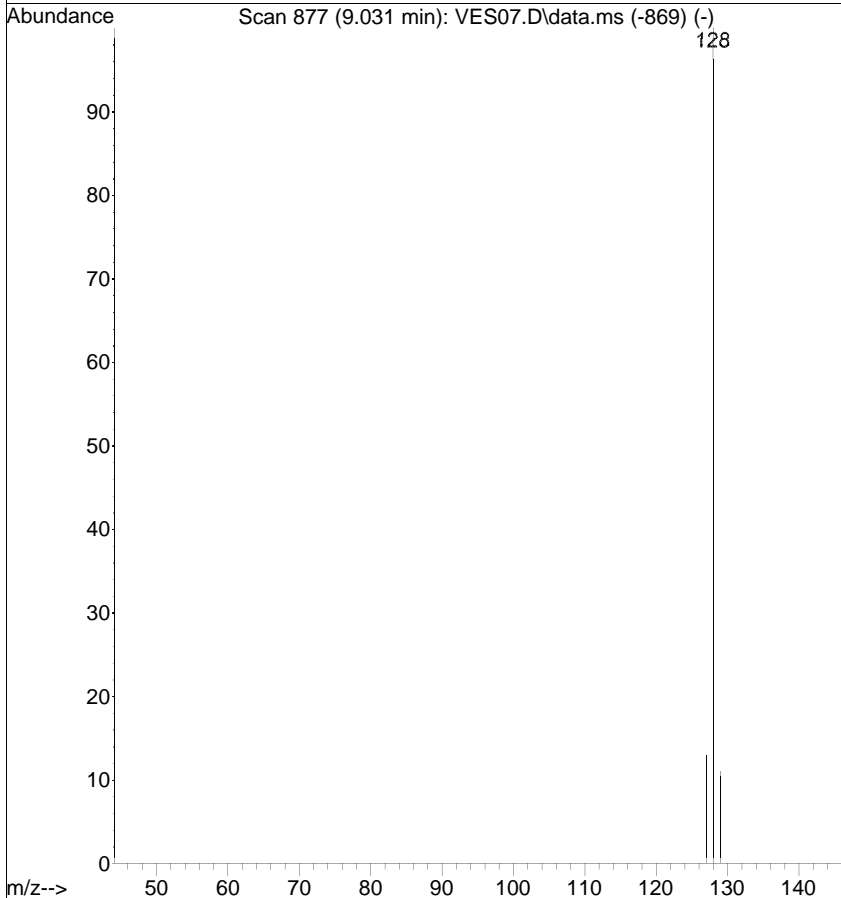


#5
 Naphthalene
 Concen: 0.0023 ug/mL
 RT: 9.072 min Scan# 889
 Delta R.T. -0.008 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

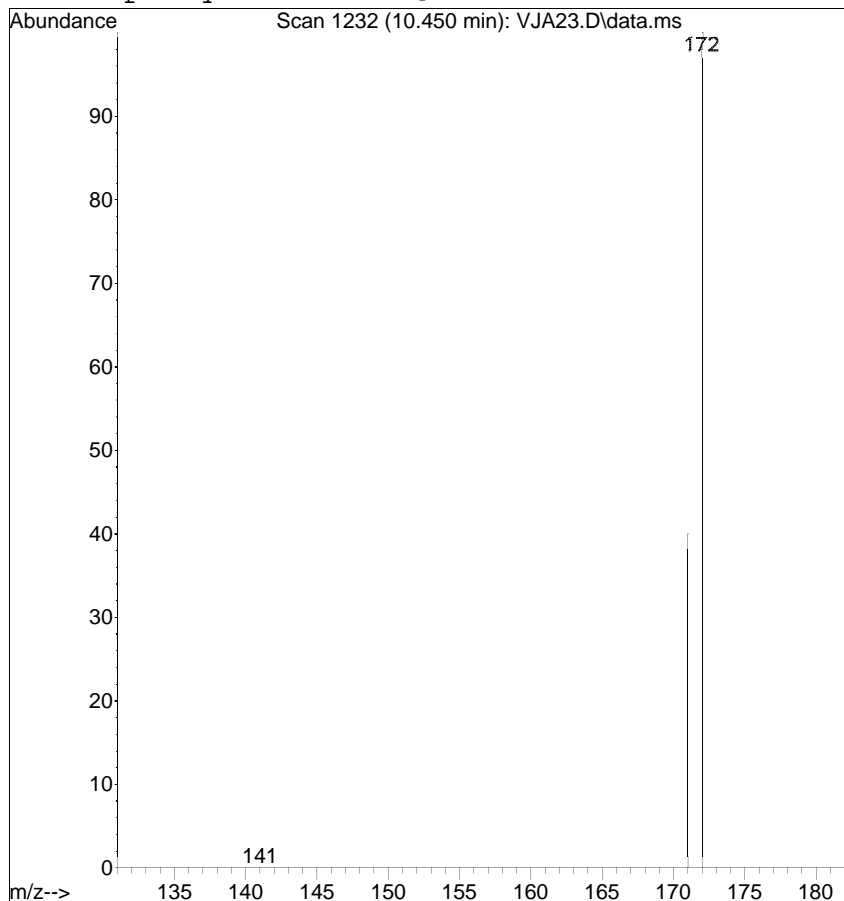
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	308		
129	29.2		0.0	31.1
127	29.9		0.0	34.0



Ref

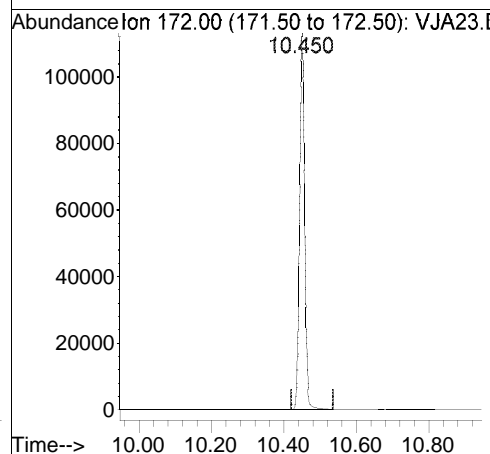


Raw

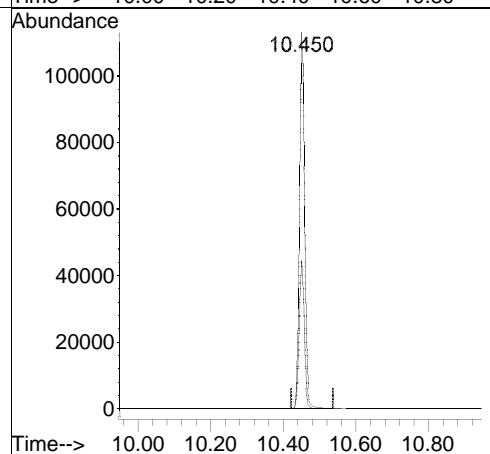
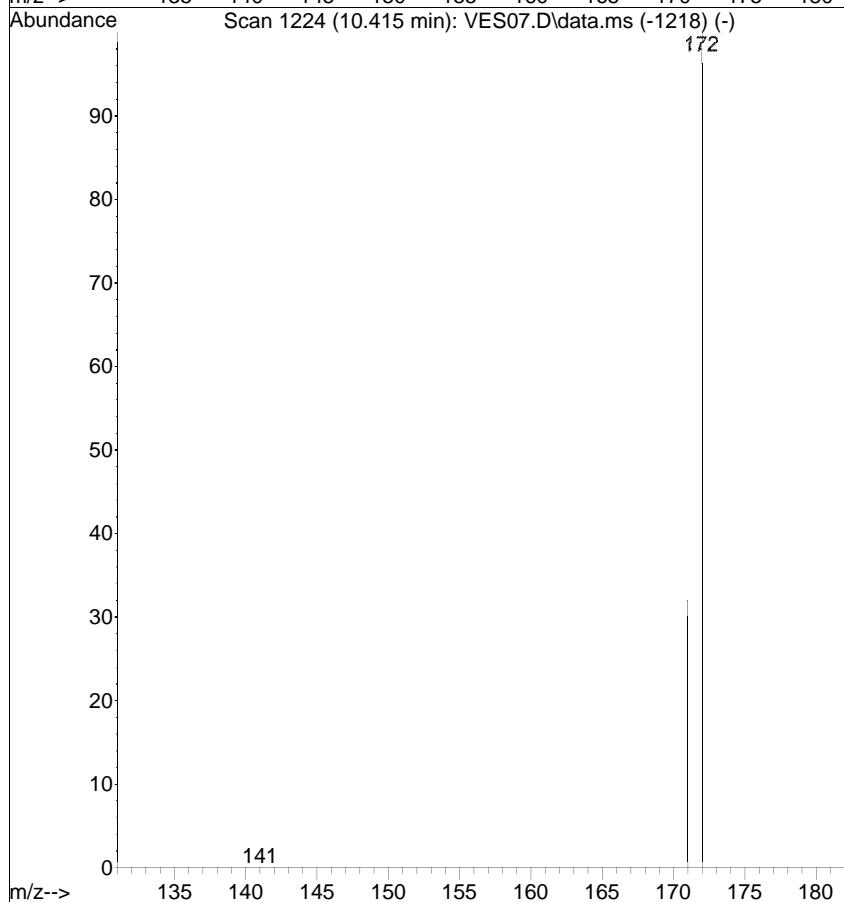


#9
2-Fluorobiphenyl
Concen: 0.7711 ug/mL
RT: 10.450 min Scan# 1232
Delta R.T. -0.014 min
Lab File: VJA23.D
Acq: 10 Oct 2018 9:24 pm

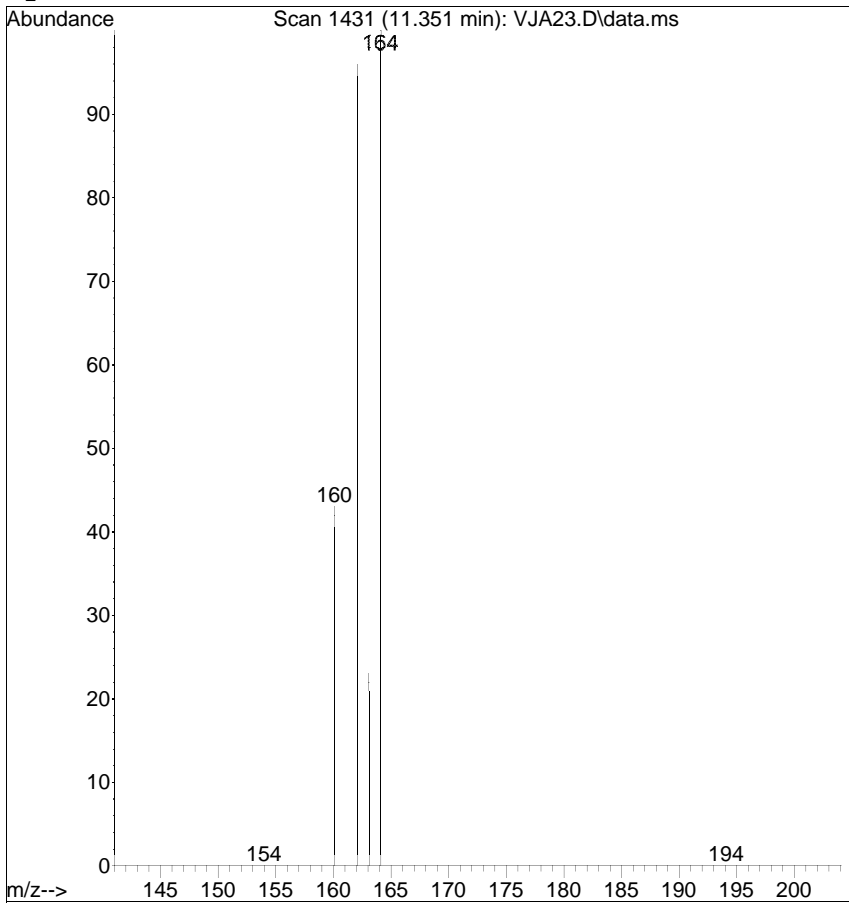
Tgt Ion	Resp	Lower	Upper
172	107247	100	
171	39.6	14.4	54.4



Ref

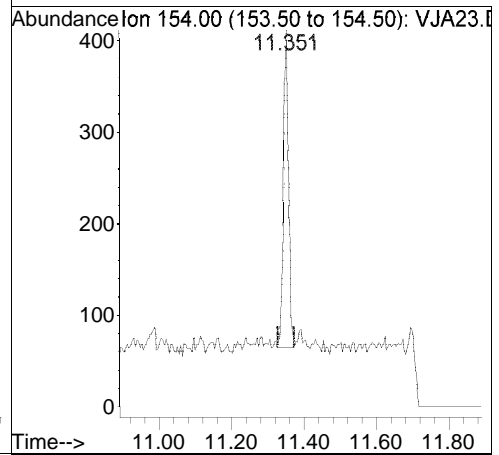


Raw

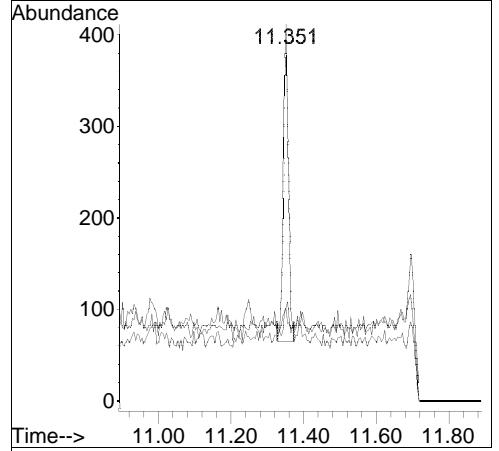
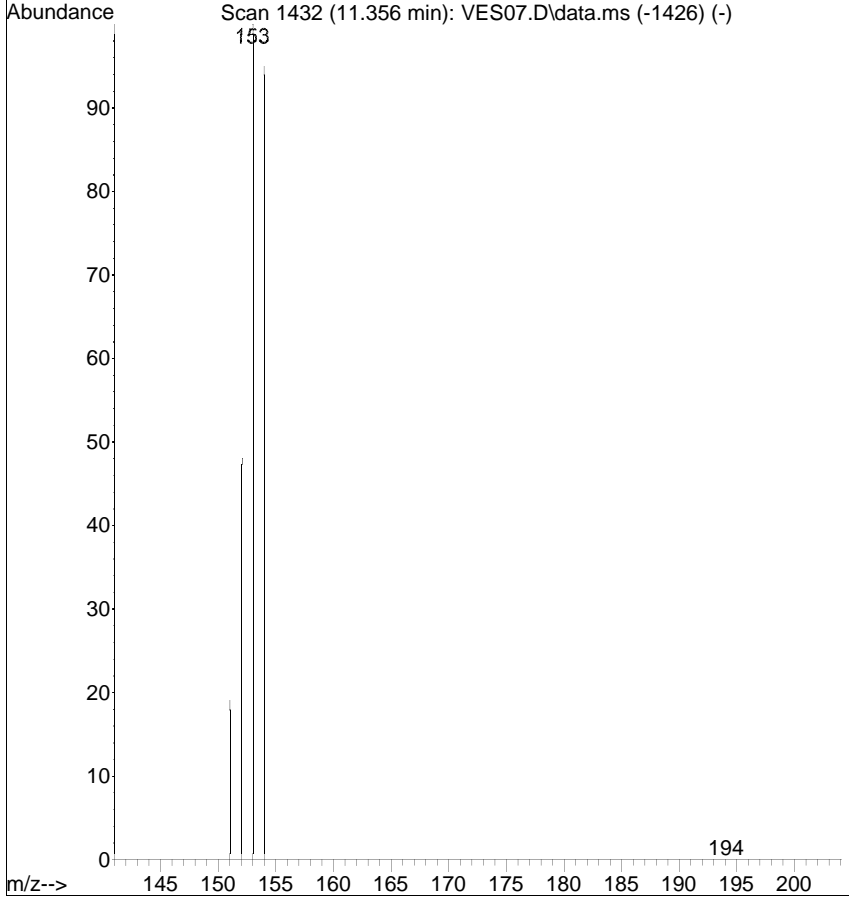


#11
 Acenaphthene
 Concen: 0.0035 ug/mL
 RT: 11.351 min Scan# 1431
 Delta R.T. -0.058 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

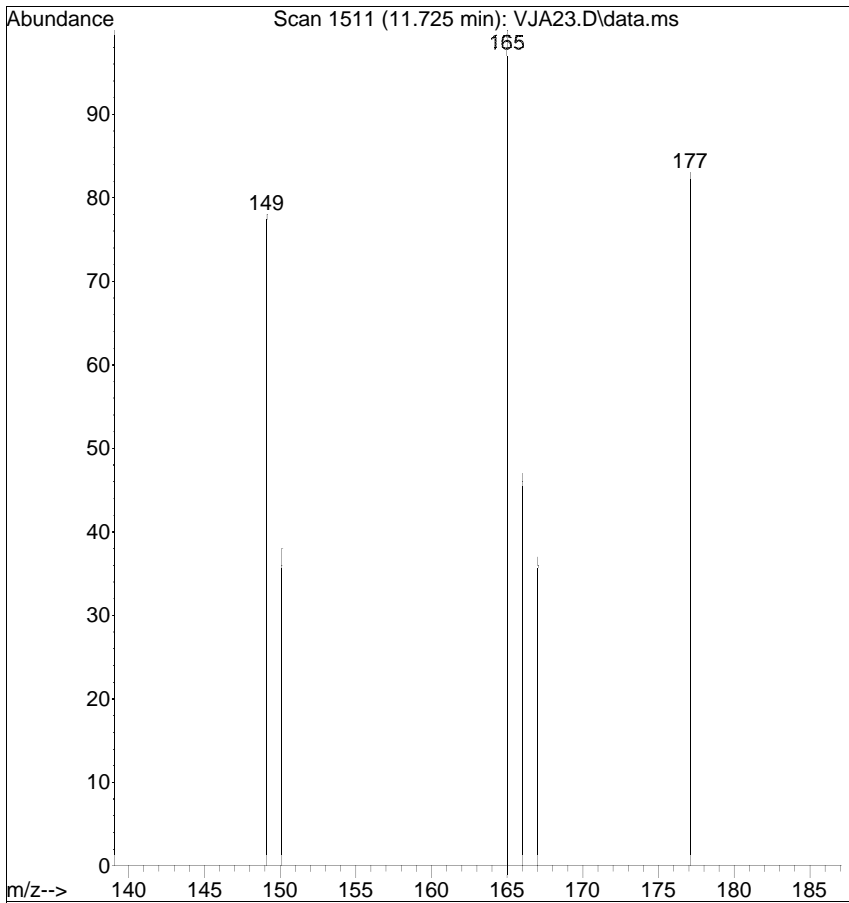
Tgt Ion	Resp	Lower	Upper
154	100		
152	24.3	35.4	75.4#
153	24.8	96.8	136.8#



Ref

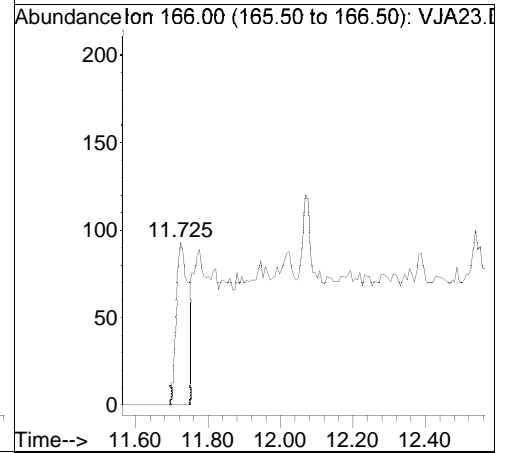


Raw

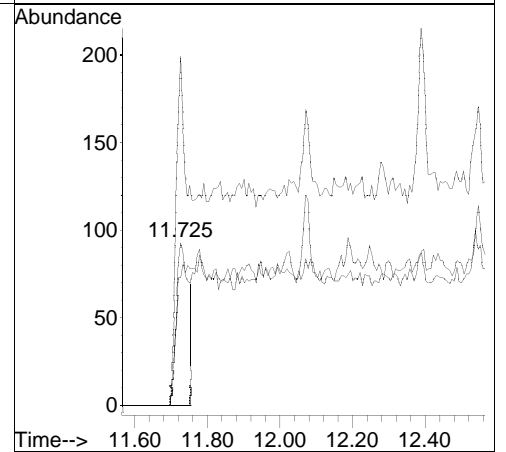
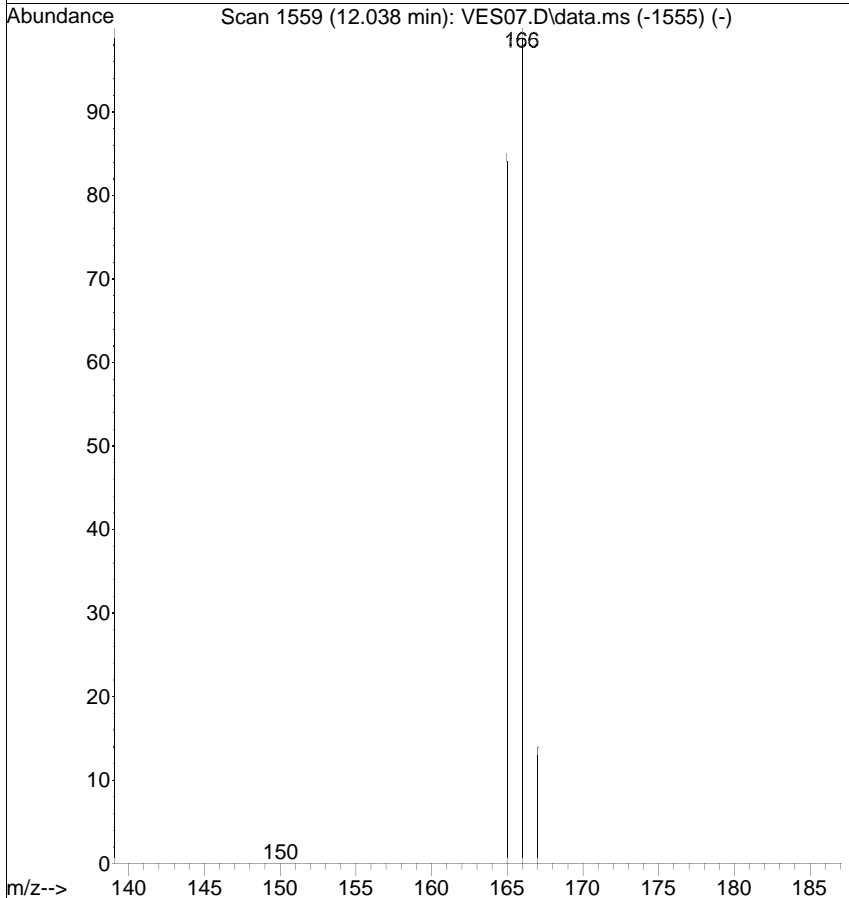


#12
 Fluorene
 Concen: 0.0022 ug/mL
 RT: 11.725 min Scan# 1511
 Delta R.T. -0.358 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

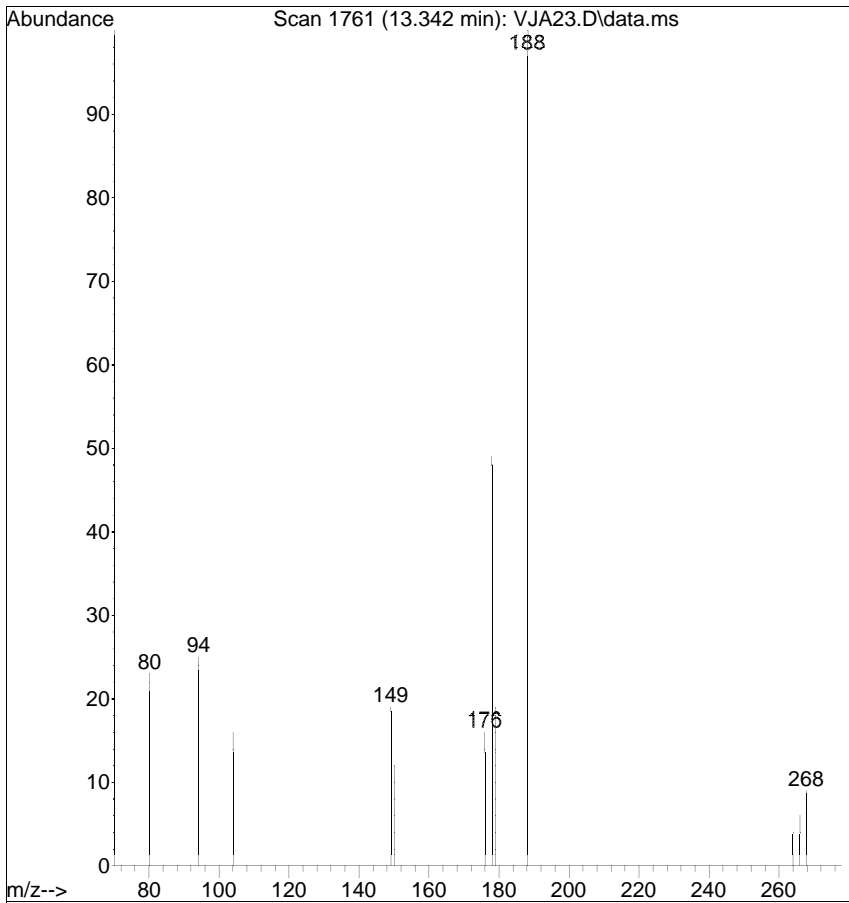
Tgt Ion	Resp	Lower	Upper
166	100		
165	214.0	74.9	114.9#
167	78.5	0.0	33.9#



Ref

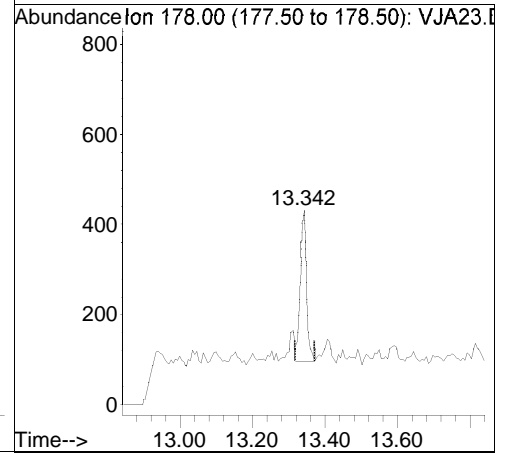


Raw

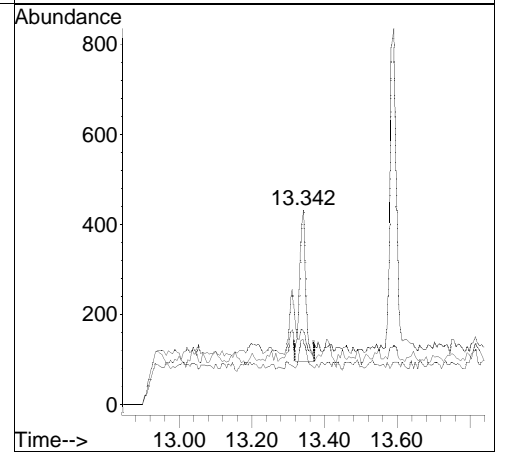
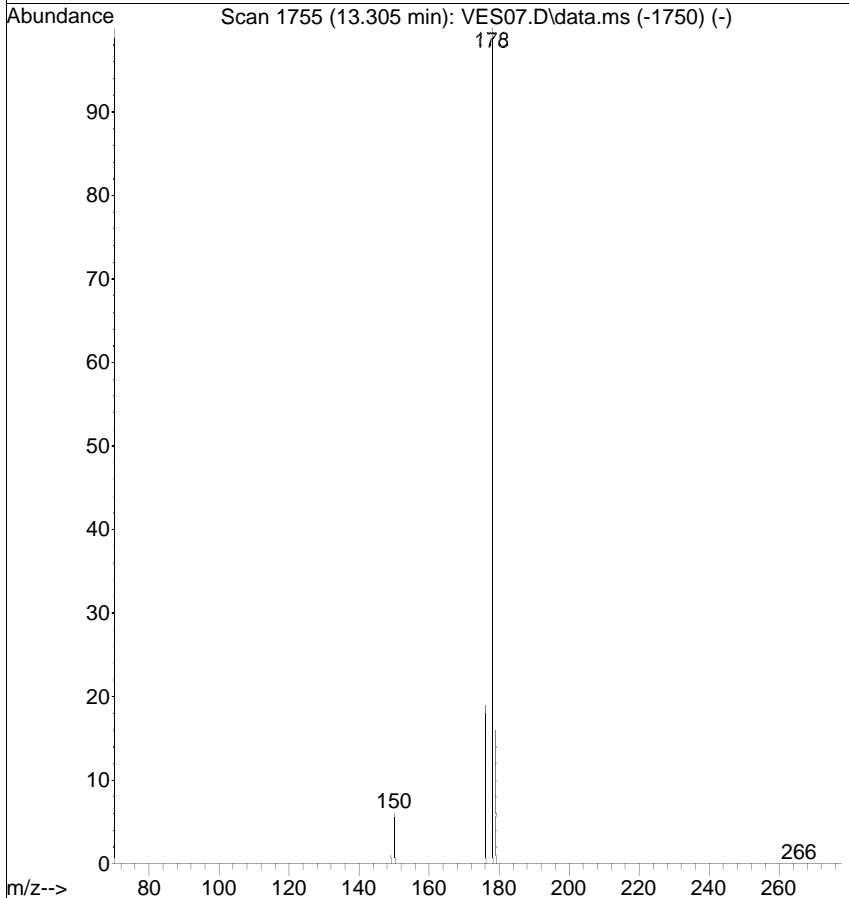


#15
 Phenanthrene
 Concen: 0.0024 ug/mL
 RT: 13.342 min Scan# 1761
 Delta R.T. -0.012 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

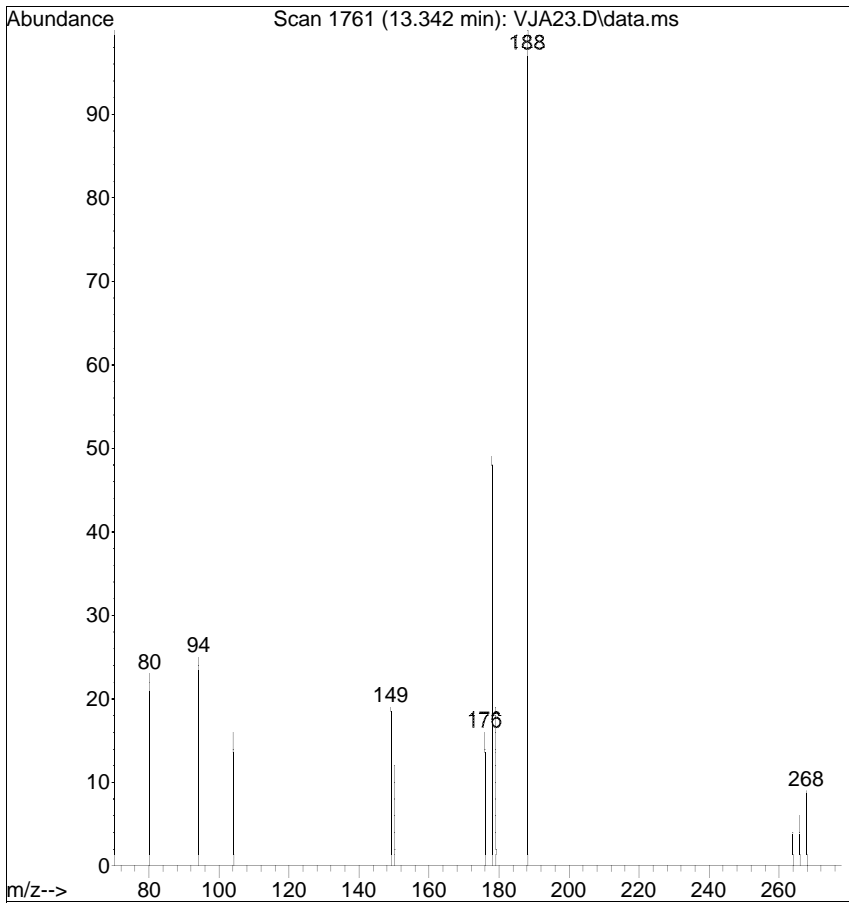
Tgt Ion	Resp	Lower	Upper
178	390		
178	100		
179	38.0	0.0	35.0#
176	33.3	0.0	38.9



Ref

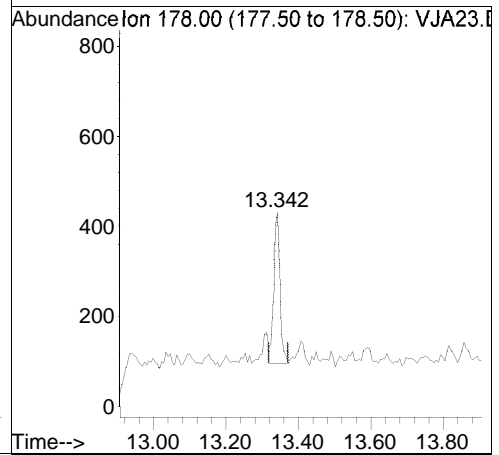


Raw

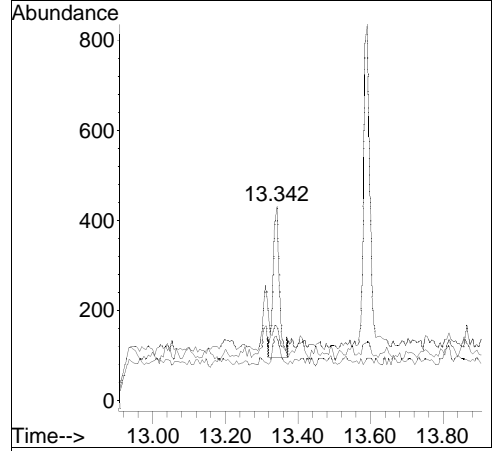
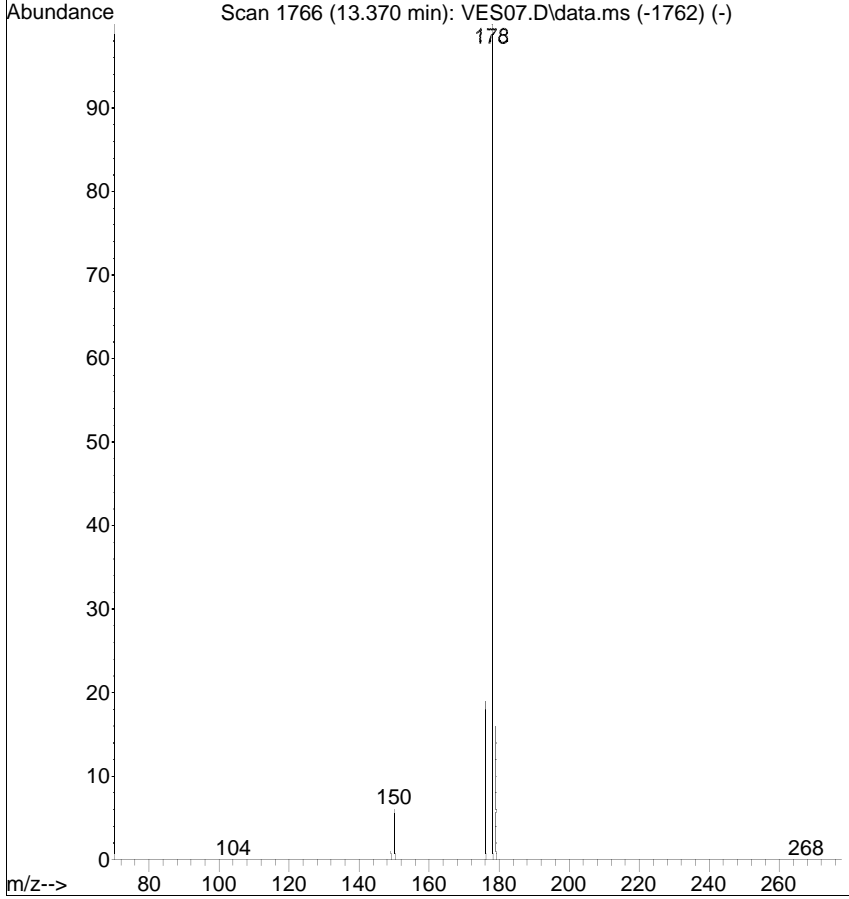


#16
 Anthracene
 Concen: 0.0024 ug/mL
 RT: 13.342 min Scan# 1761
 Delta R.T. -0.077 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

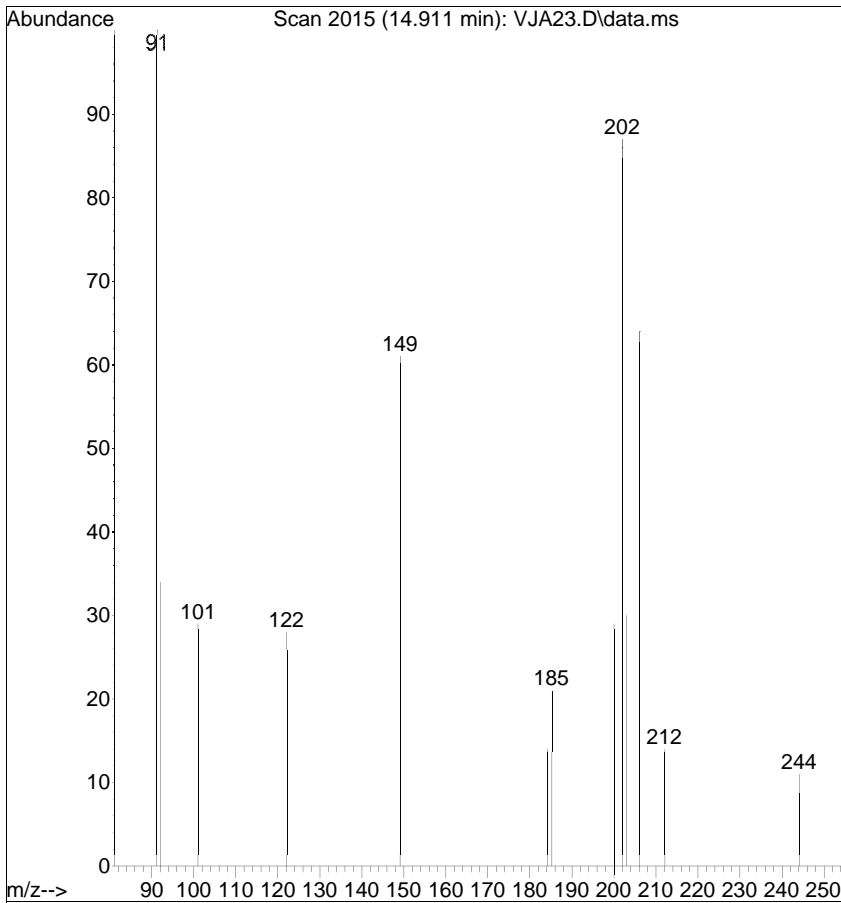
Tgt Ion	Resp	Lower	Upper
178	390		
178	100		
179	38.0	0.0	34.4#
176	33.3	0.0	39.5



Ref

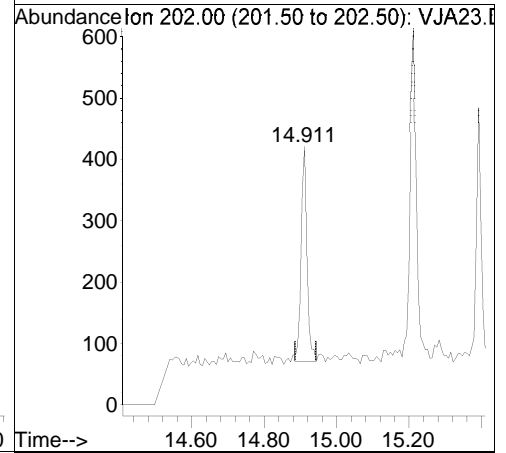


Raw

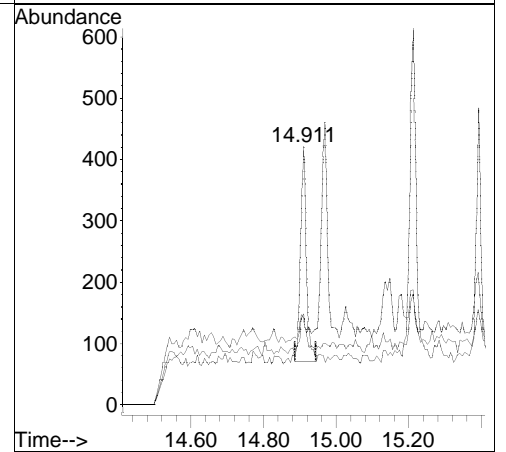
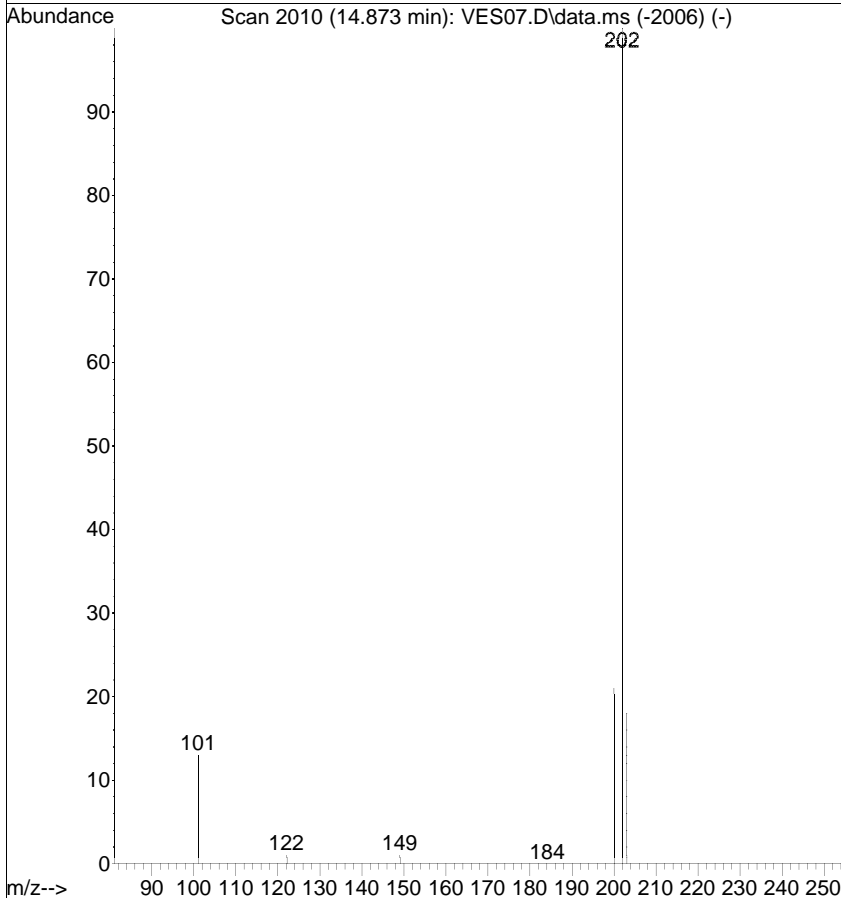


#17
 Fluoranthene
 Concen: 0.0020 ug/mL
 RT: 14.911 min Scan# 2015
 Delta R.T. -0.012 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

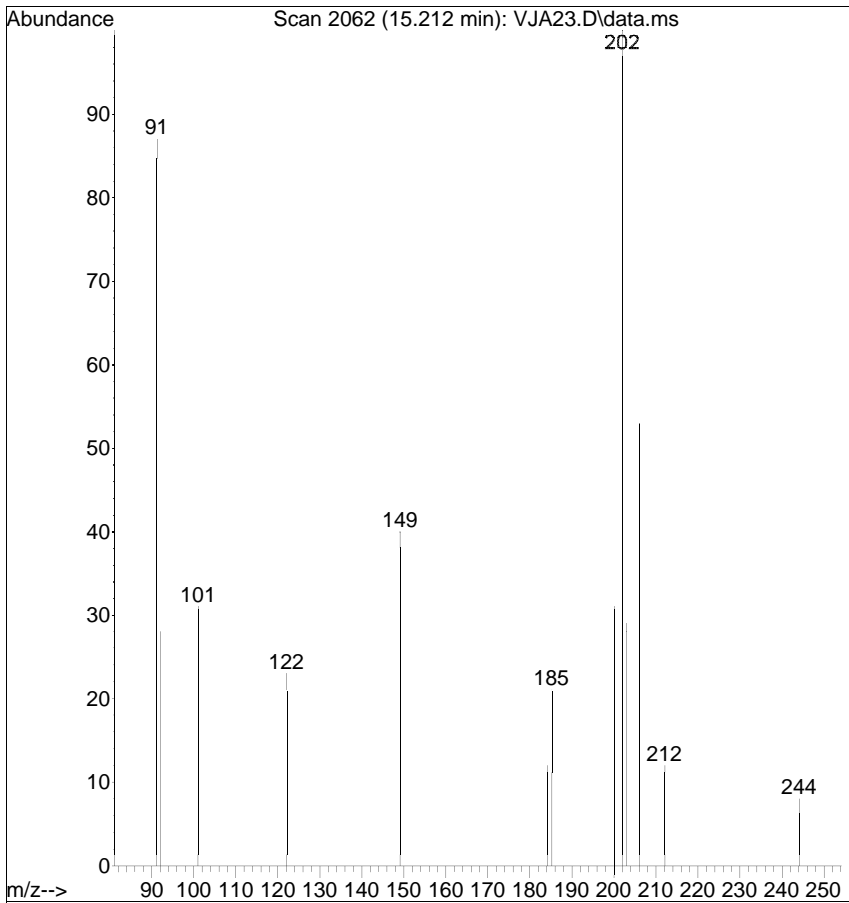
Tgt Ion	Ratio	Lower	Upper
202	100		
101	33.7	0.0	21.1#
203	35.2	0.0	37.0



Ref

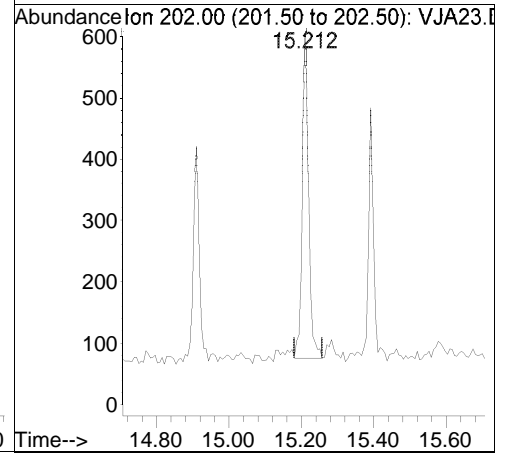


Raw

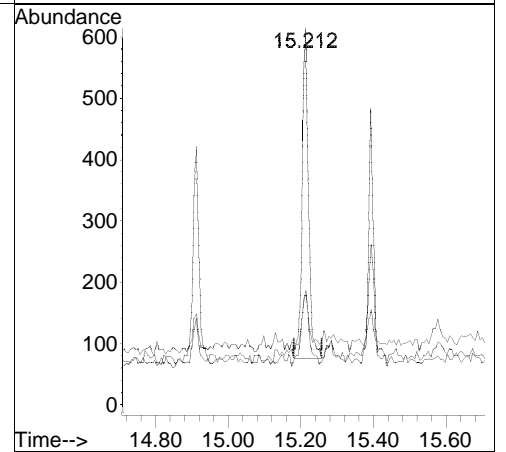
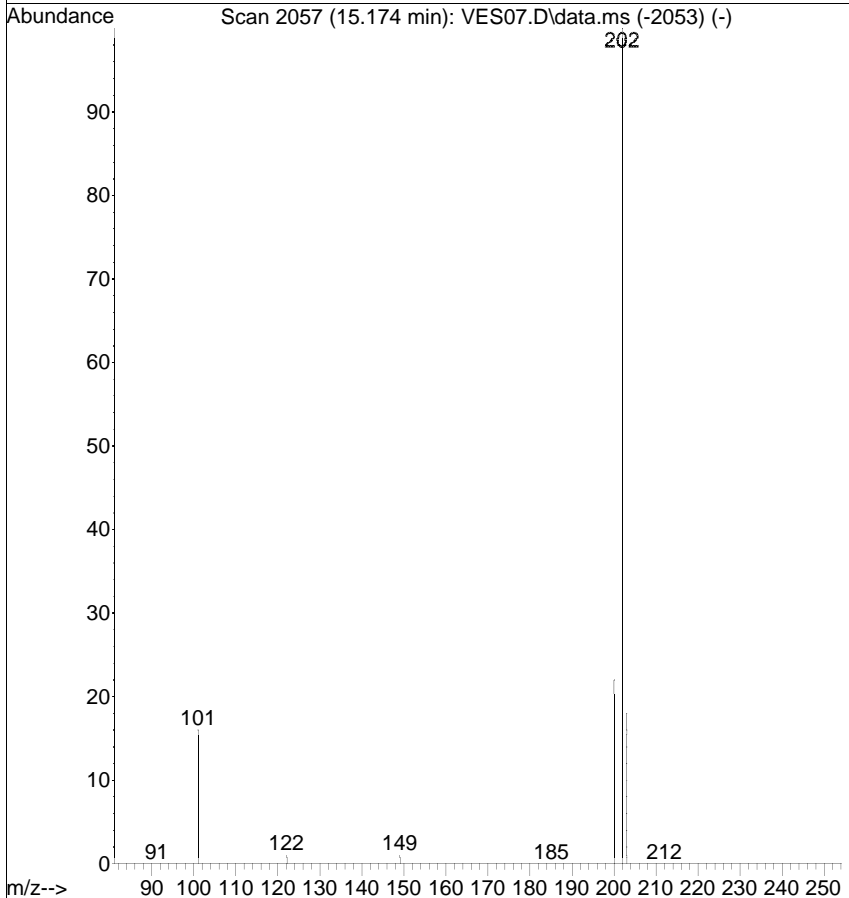


#19
 Pyrene
 Concen: 0.0036 ug/mL
 RT: 15.212 min Scan# 2062
 Delta R.T. -0.012 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

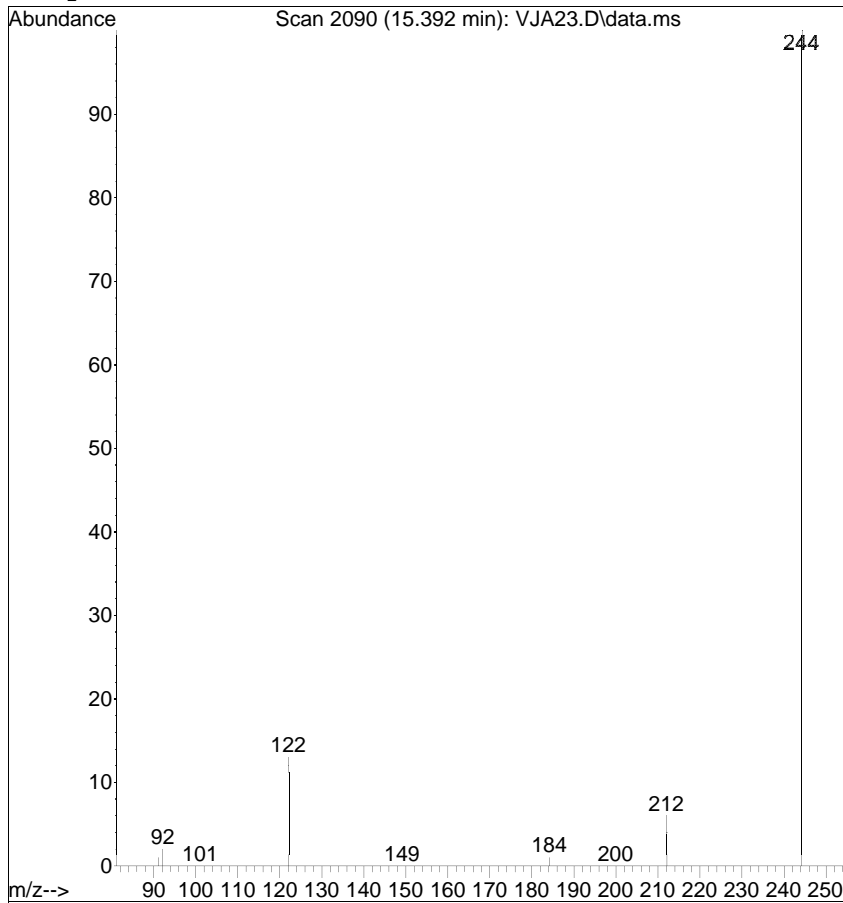
Tgt Ion	Resp	Lower	Upper
202	100		
200	30.5	1.1	41.1
203	29.4	0.0	37.7



Ref

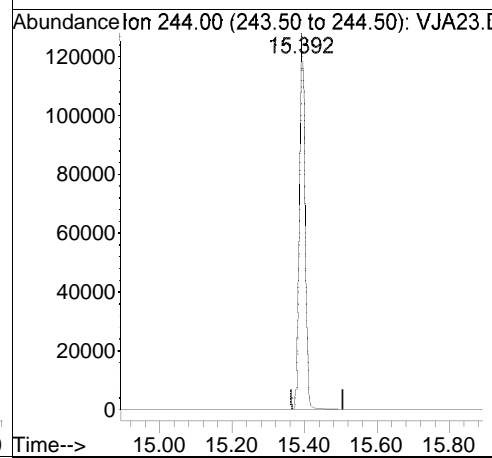


Raw

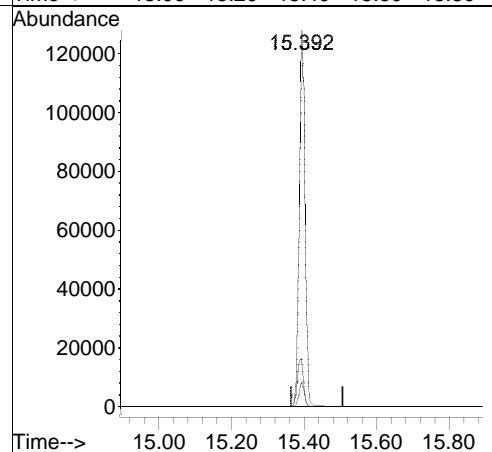
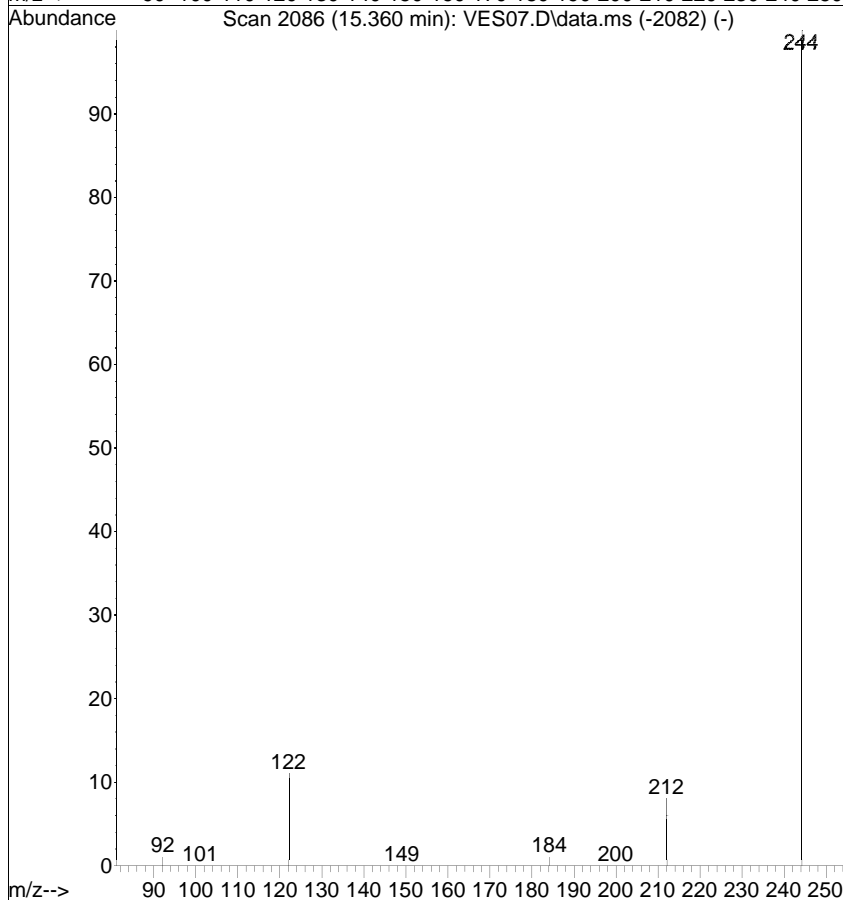


#20
 Terphenyl-d14
 Concen: 0.9136 ug/mL
 RT: 15.392 min Scan# 2090
 Delta R.T. -0.018 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

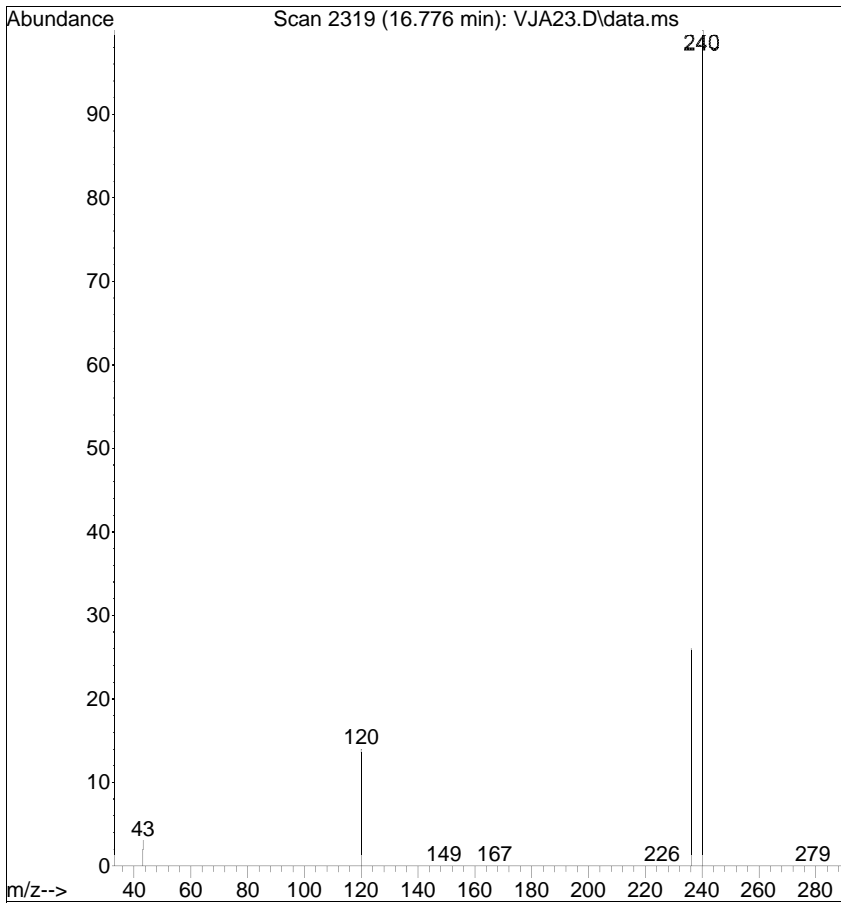
Tgt Ion	Resp	Lower	Upper
244	132900		
122	13.0	0.0	25.0
212	6.4	0.0	31.4



Ref

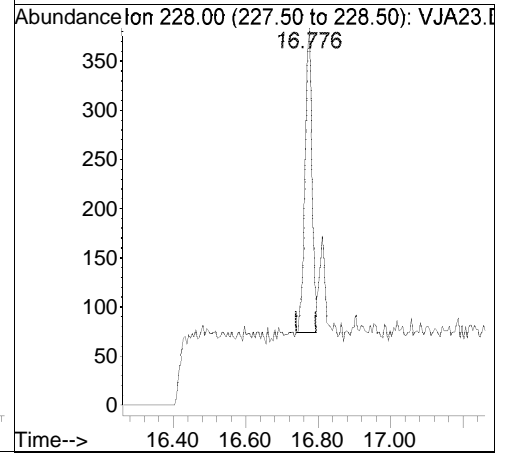


Raw

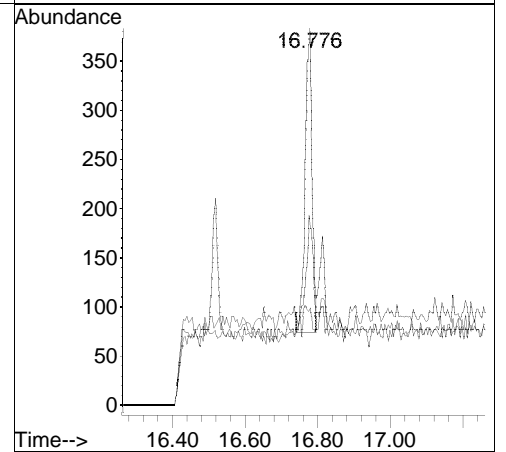
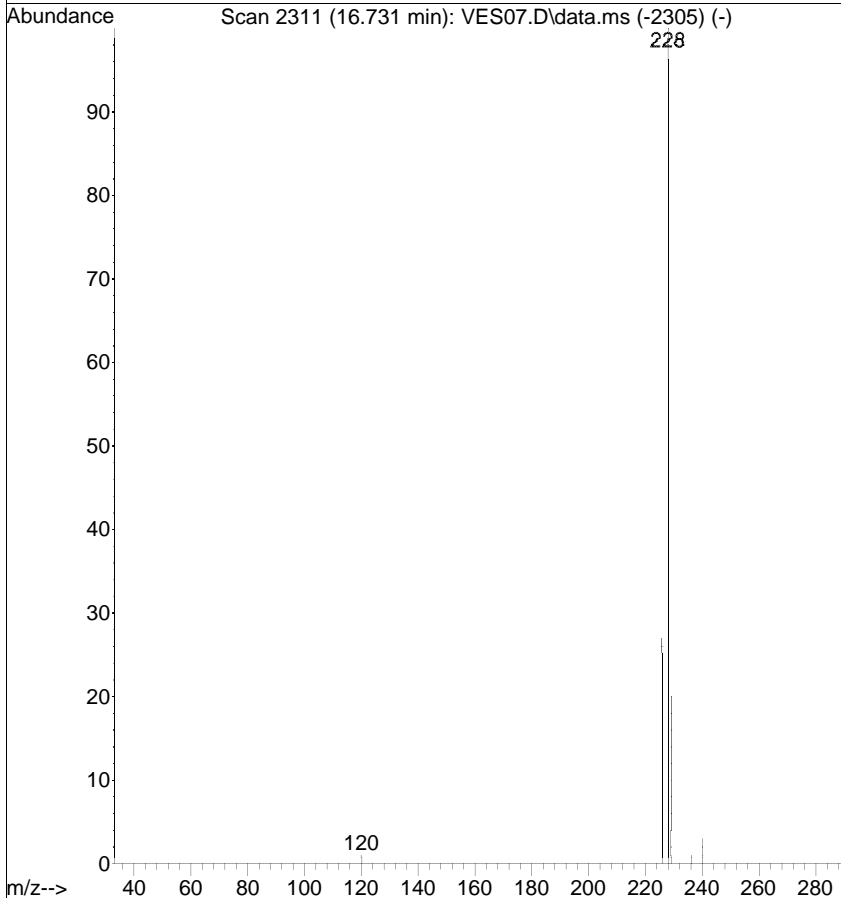


#21
 Benzo(a)anthracene
 Concen: 0.0025 ug/mL
 RT: 16.776 min Scan# 2319
 Delta R.T. -0.004 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

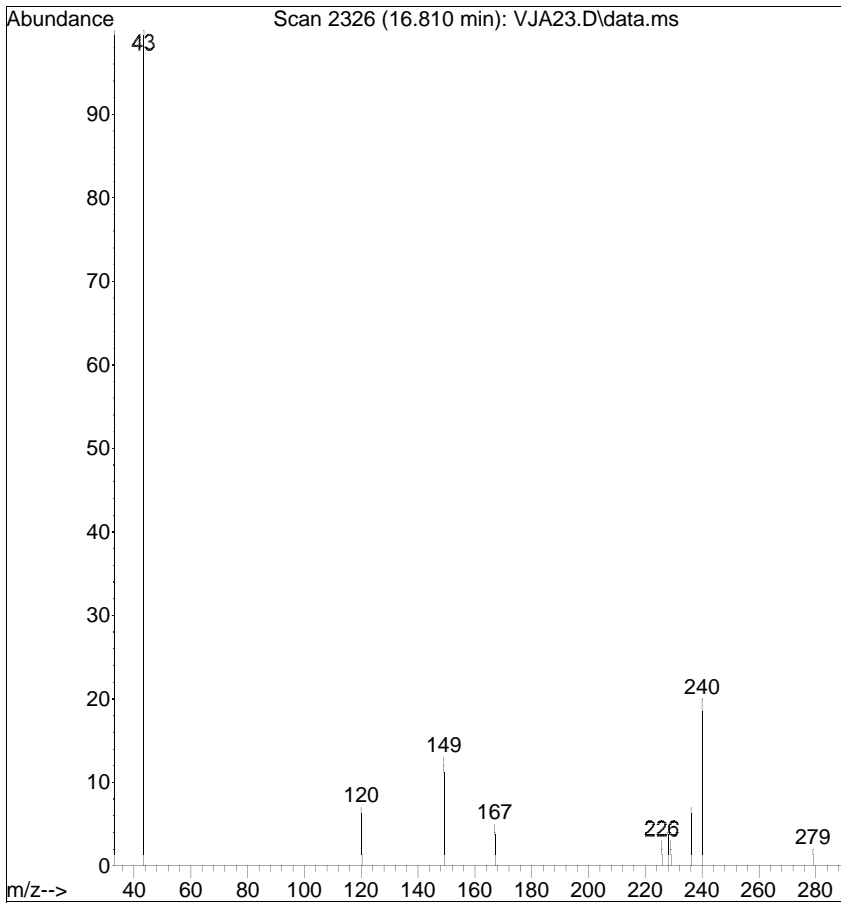
Tgt Ion	Ratio	Lower	Upper
228	100		
229	50.4	0.1	40.1#
226	25.1	9.3	49.3



Ref

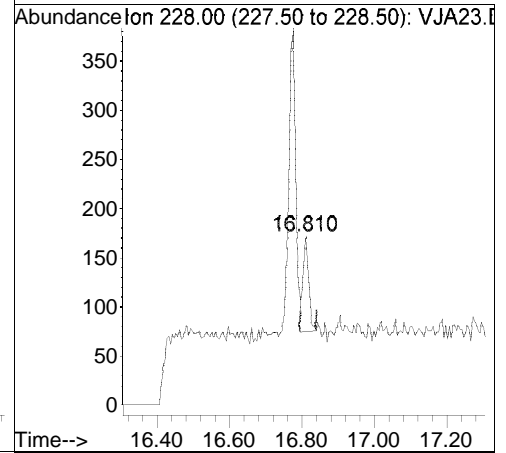


Raw

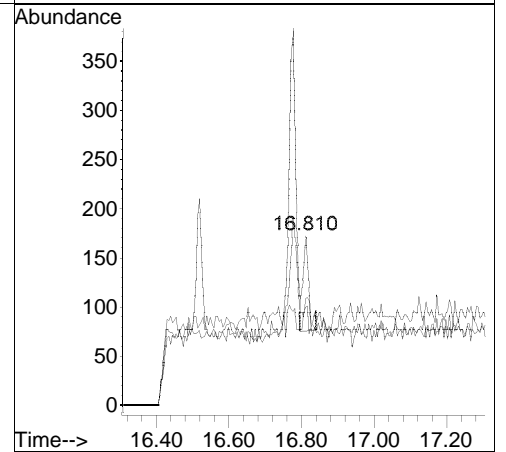
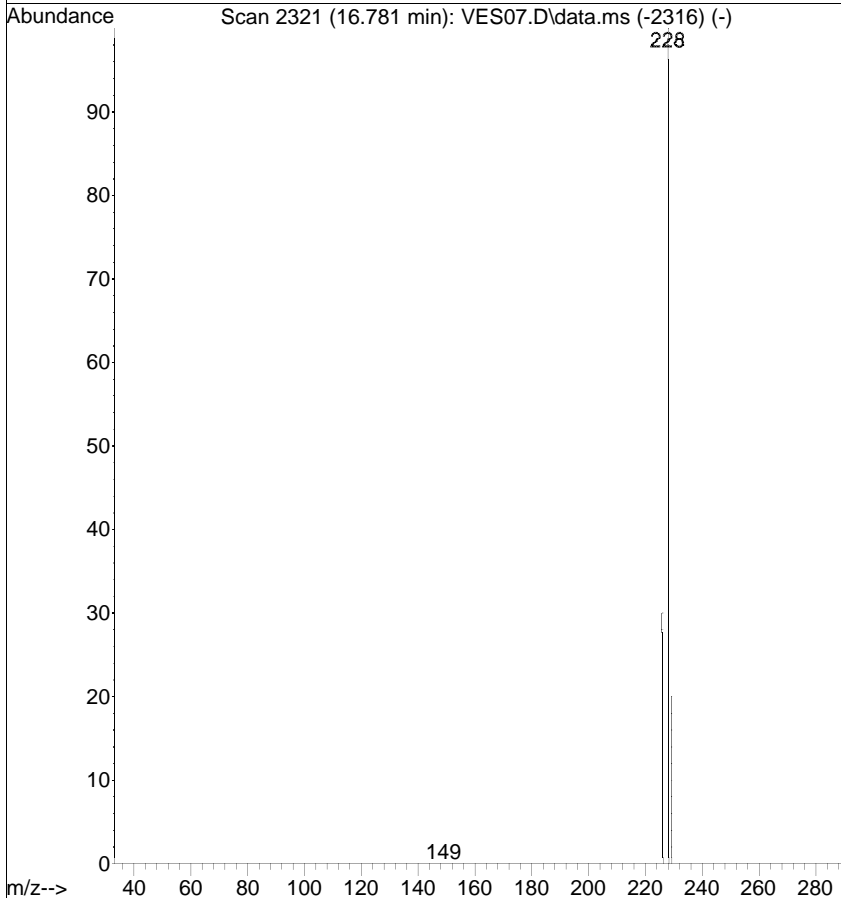


#22
 Chrysene
 Concen: 0.0006 ug/mL
 RT: 16.810 min Scan# 2326
 Delta R.T. -0.014 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

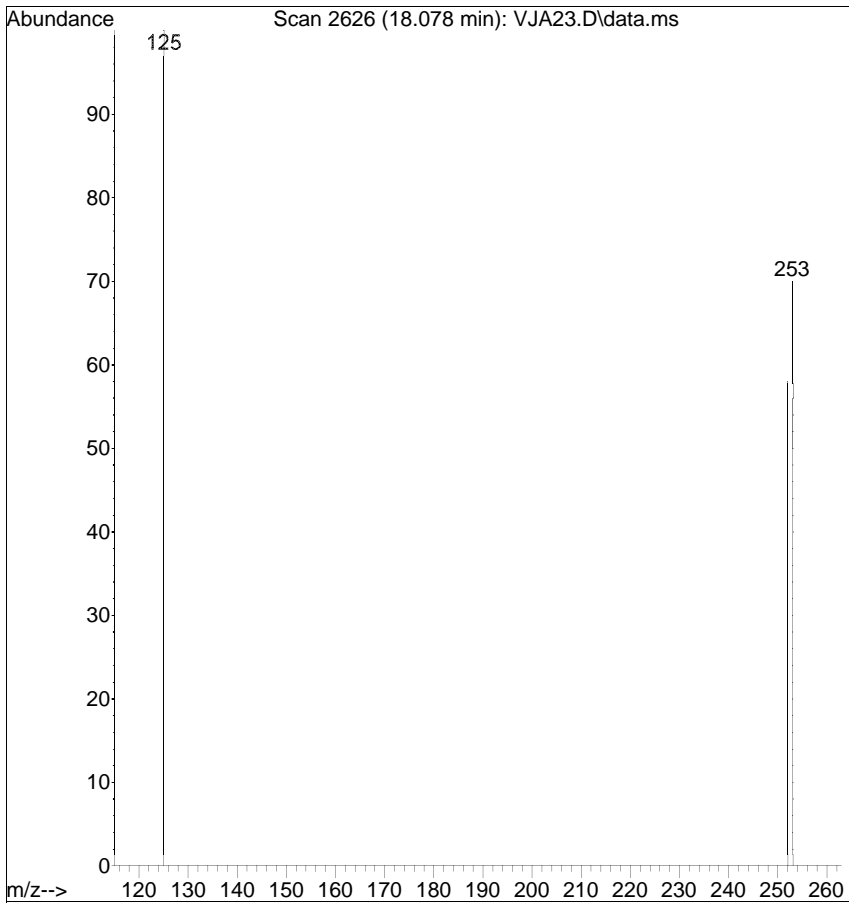
Tgt Ion	Ratio	Lower	Upper
228	100		
226	58.1	13.4	53.4#
229	62.8	0.8	40.8#



Ref

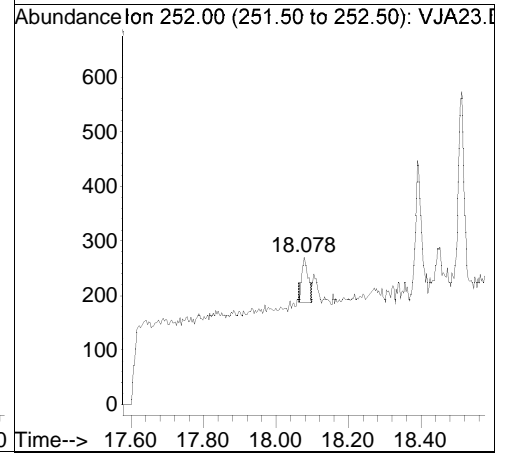


Raw

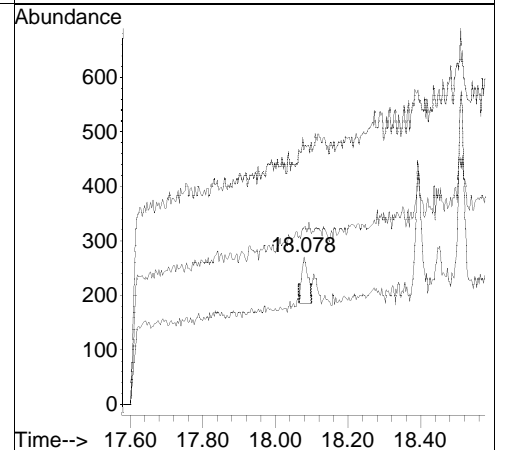
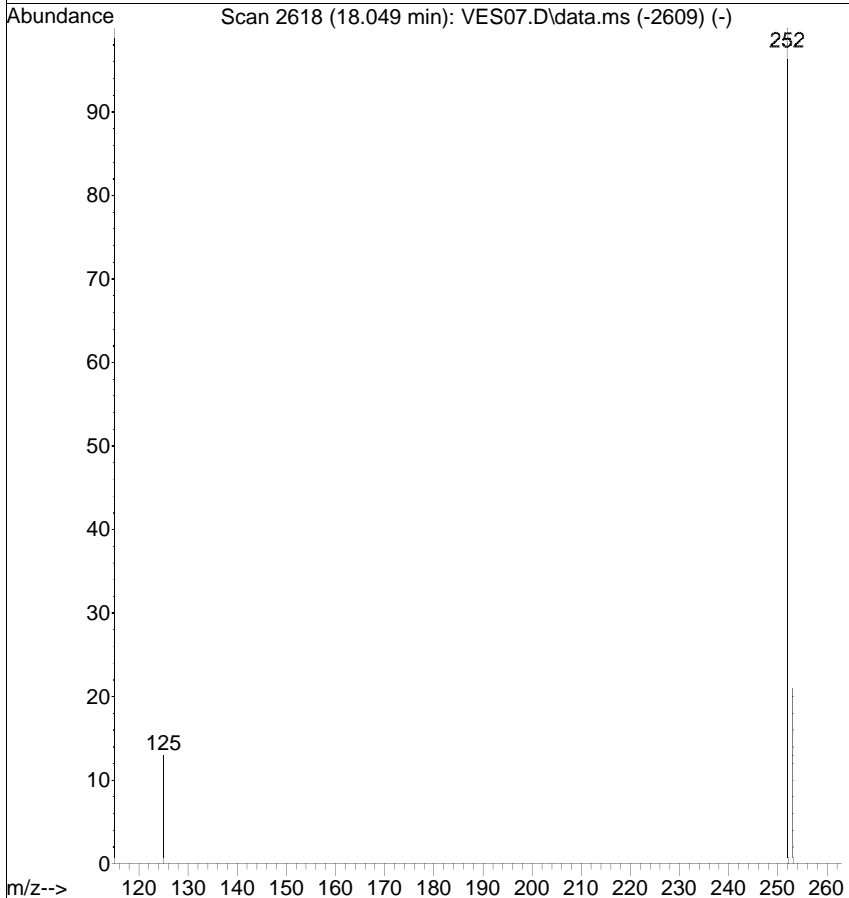


#24
 Benzo(b)fluoranthene
 Concen: 0.0008 ug/mL
 RT: 18.078 min Scan# 2626
 Delta R.T. -0.016 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

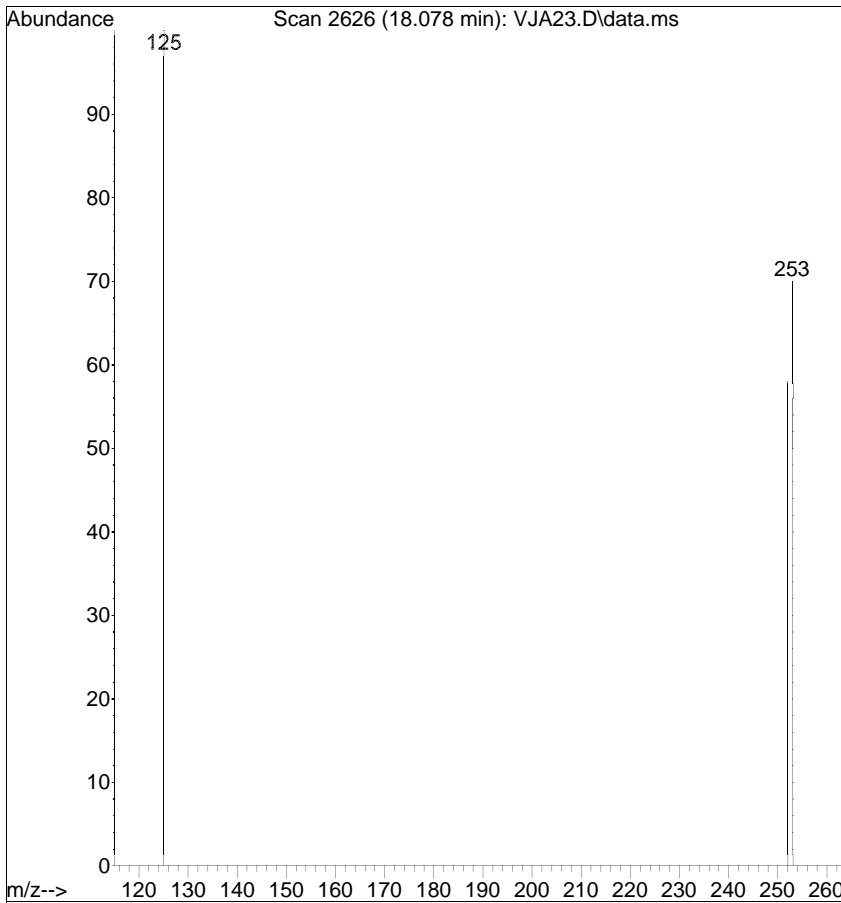
Tgt Ion	Resp	Lower	Upper
252	105		
252	100		
253	120.3	1.0	41.0#
125	172.0	0.0	20.9#



Ref

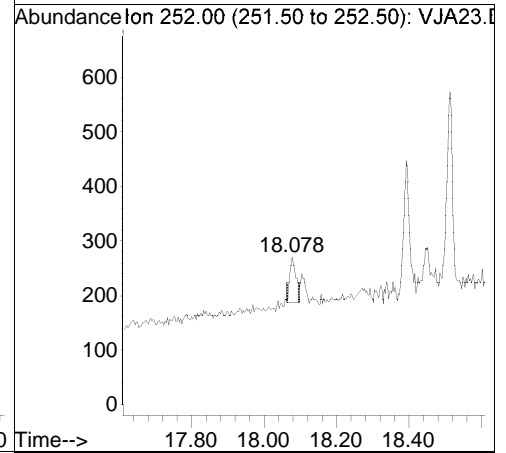


Raw

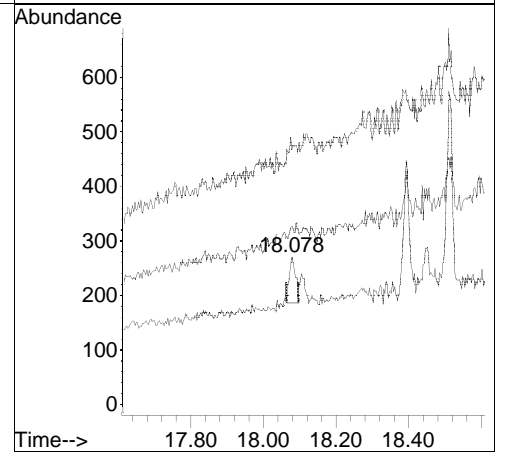
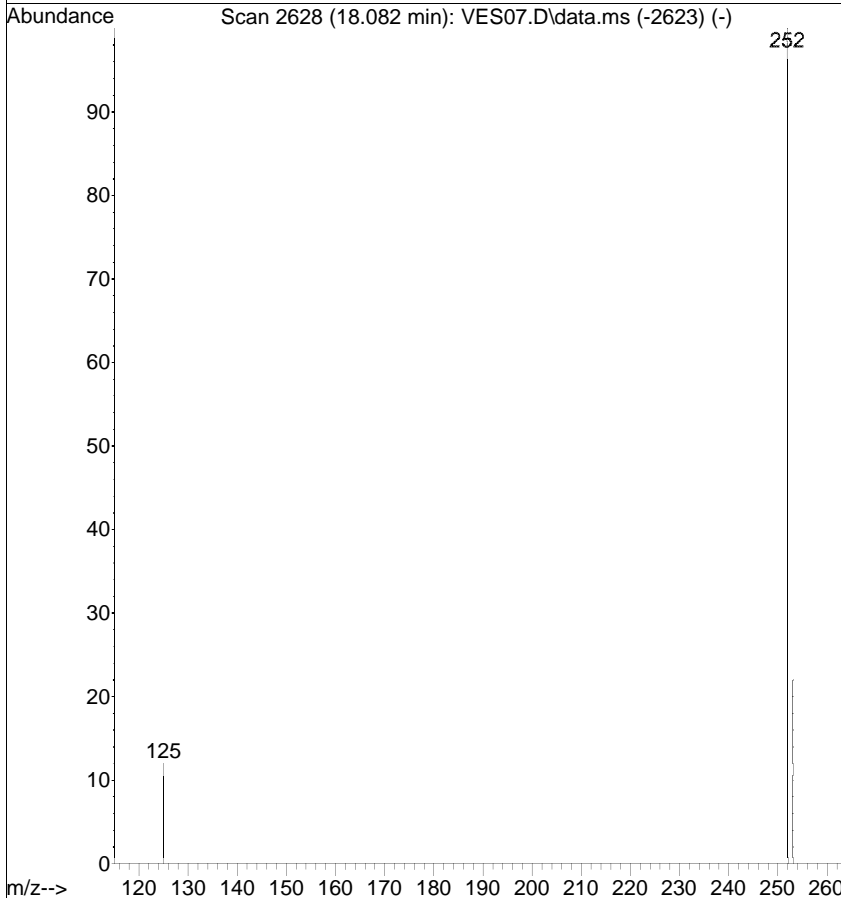


#25
 Benzo(k)fluoranthene
 Concen: 0.0008 ug/mL
 RT: 18.078 min Scan# 2626
 Delta R.T. -0.049 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

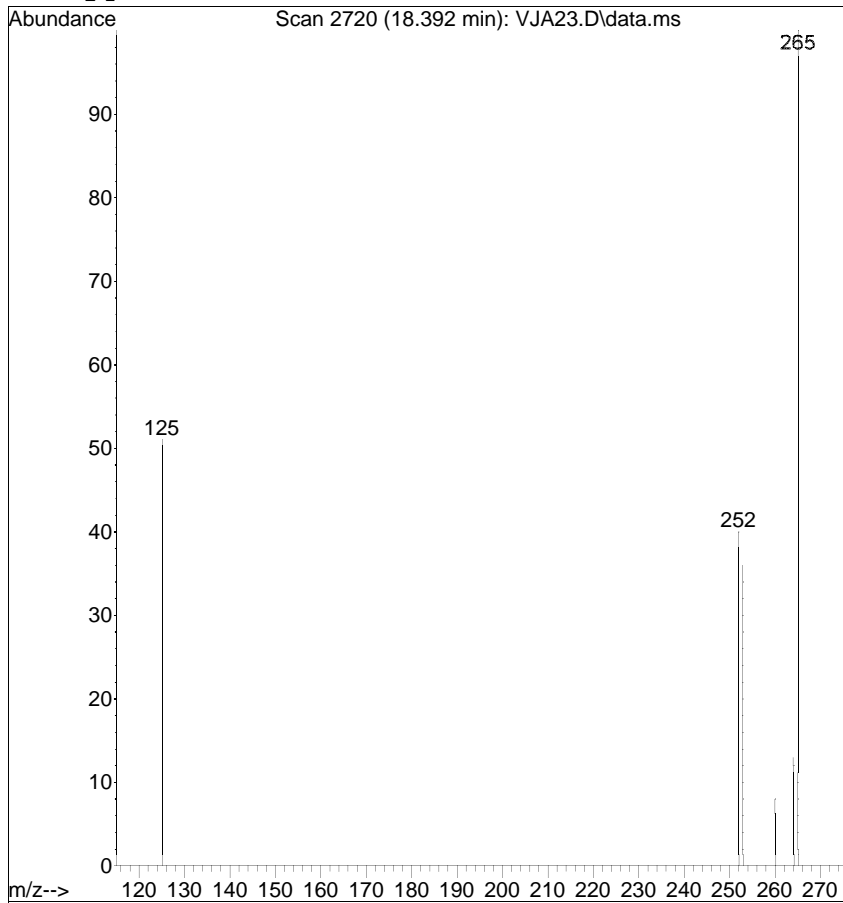
Tgt Ion	Resp	Lower	Upper
252	105		
252	100		
253	120.3	1.1	41.1#
125	172.0	0.0	21.1#



Ref

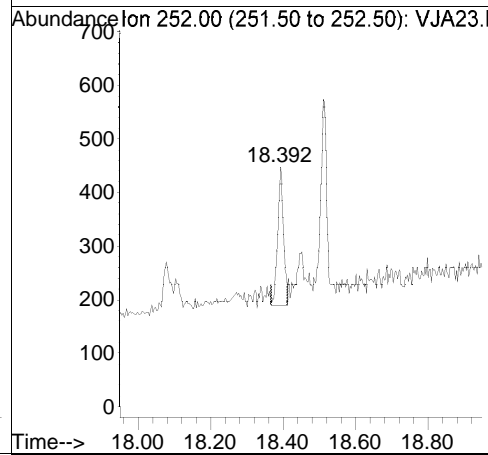


Raw

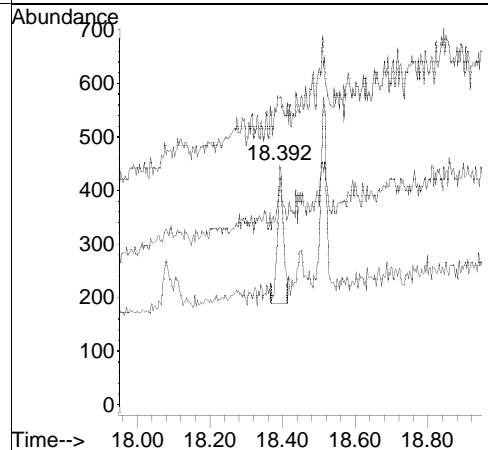
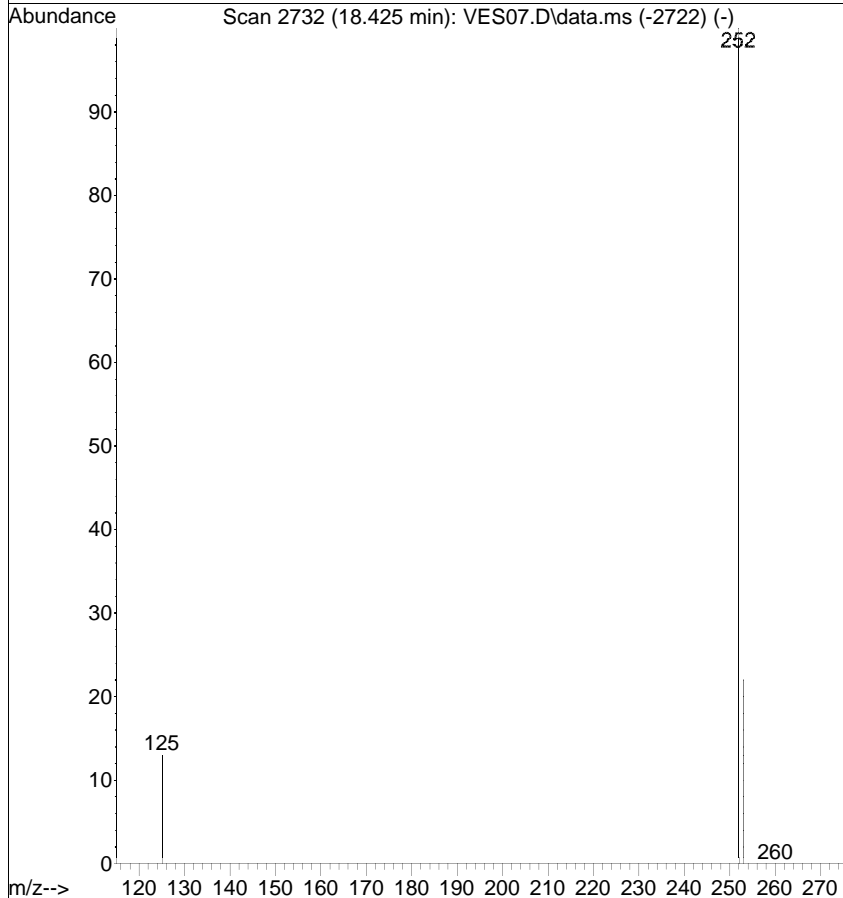


#26
 Benzo(a)pyrene
 Concen: 0.0025 ug/mL
 RT: 18.392 min Scan# 2720
 Delta R.T. -0.075 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

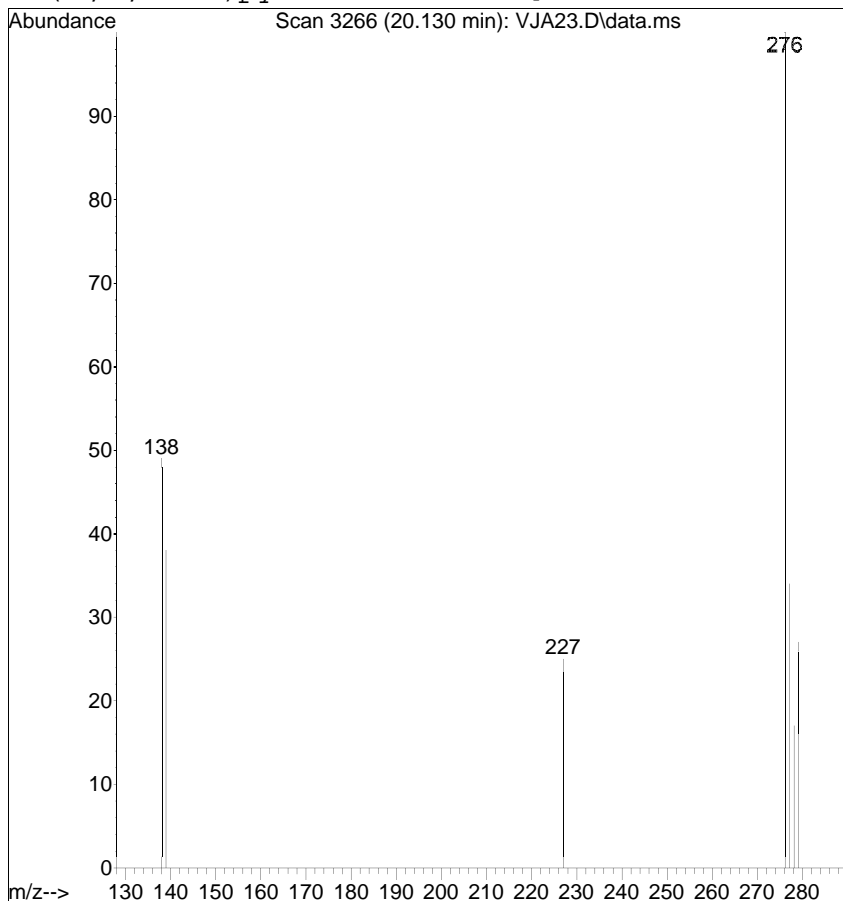
Tgt Ion	Resp	Lower	Upper
252	100		
253	89.3	3.4	43.4#
125	127.5	0.0	20.9#



Ref

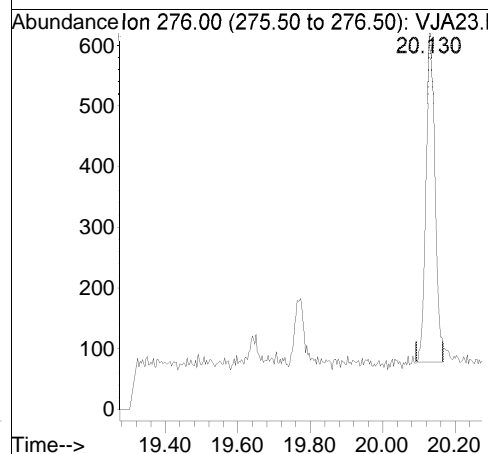


Raw

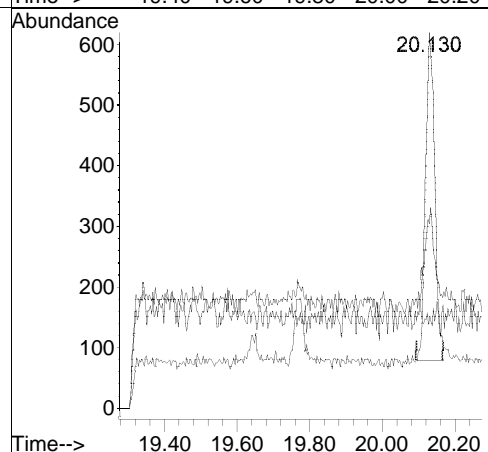
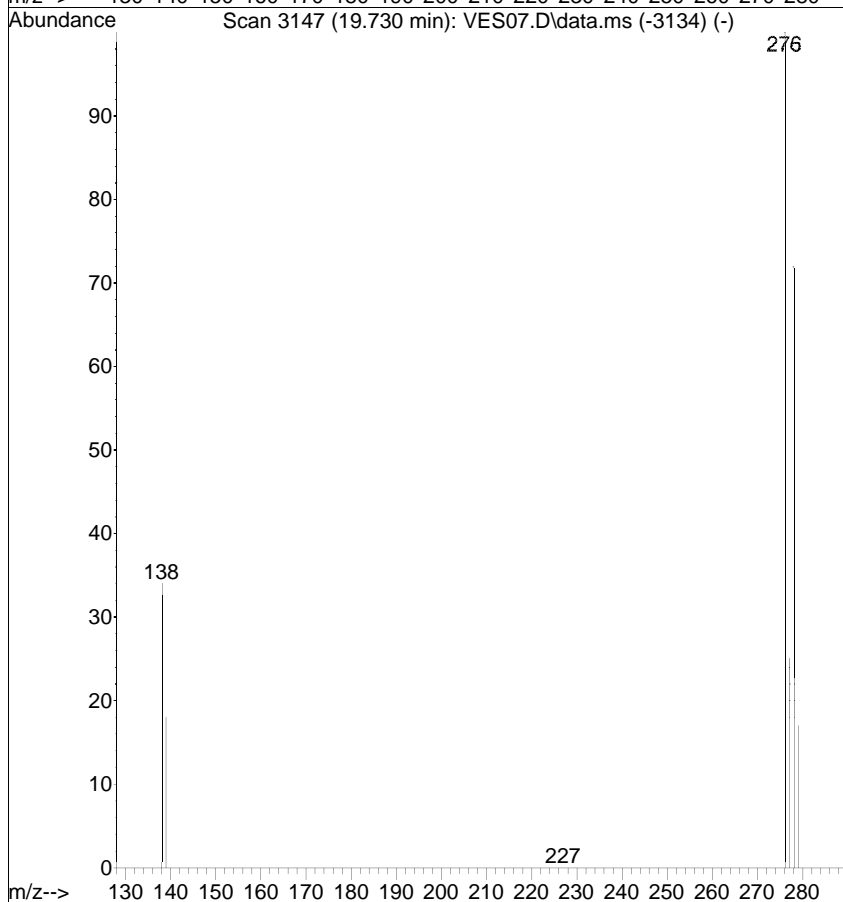


#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.0080 ug/mL
 RT: 20.130 min Scan# 3266
 Delta R.T. 0.337 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

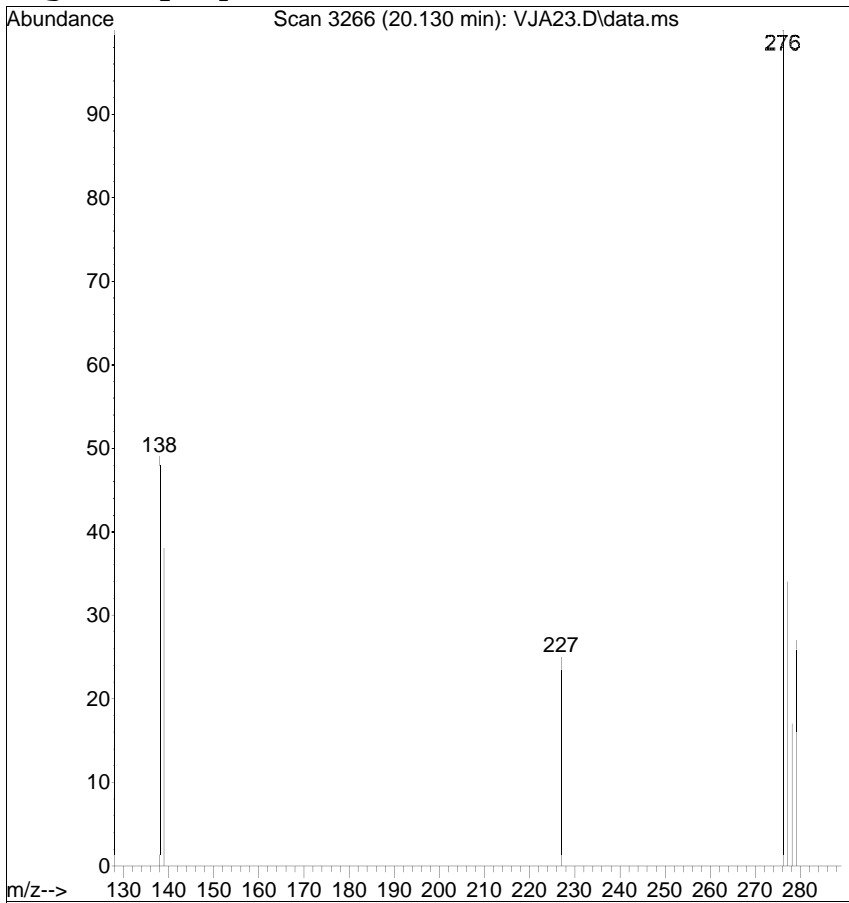
Tgt Ion	Ratio	Lower	Upper
276	100		
138	49.3	0.0	23.1#
227	24.6	0.0	21.0#



Ref

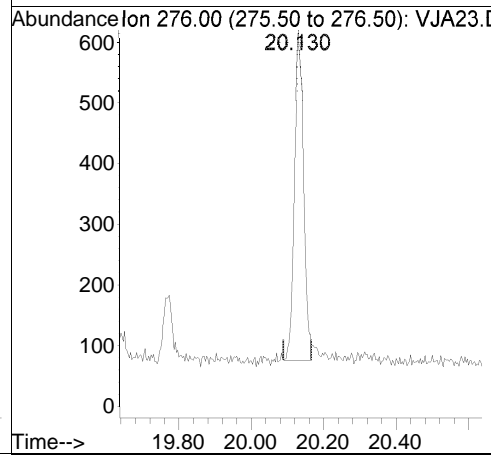


Raw

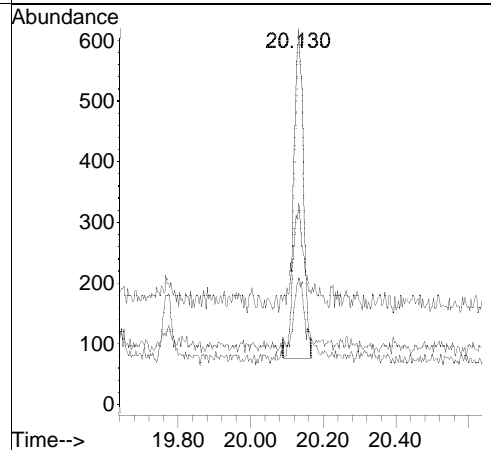
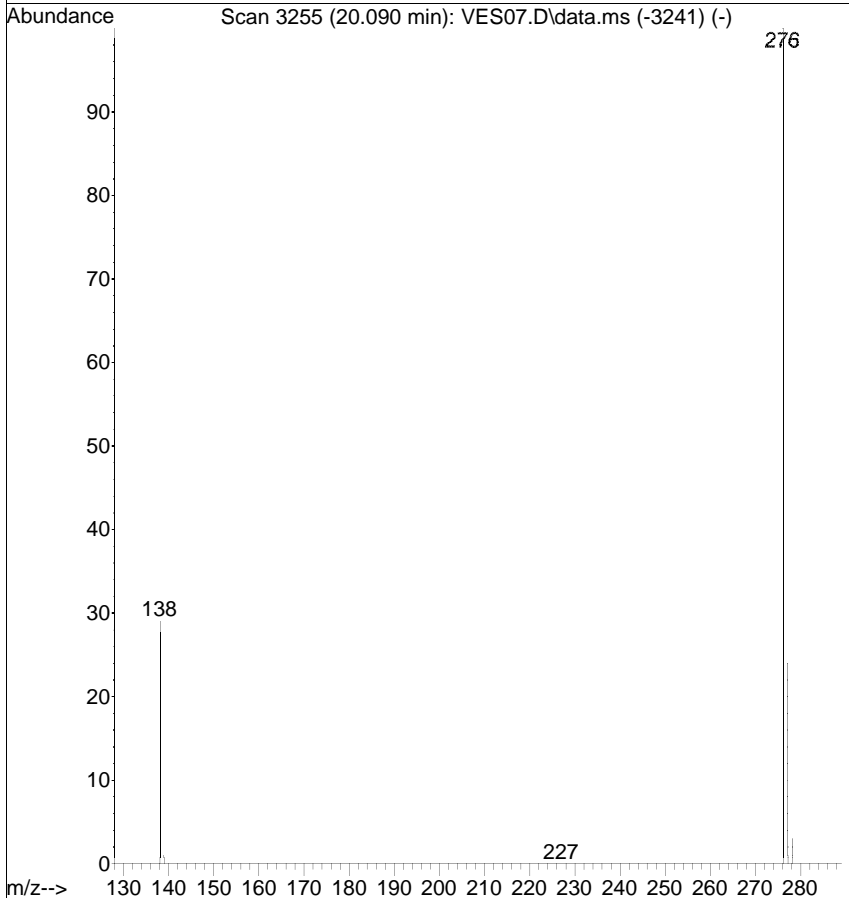


#29
 Benzo(g,h,i)perylene
 Concen: 0.0103 ug/mL
 RT: 20.130 min Scan# 3266
 Delta R.T. -0.026 min
 Lab File: VJA23.D
 Acq: 10 Oct 2018 9:24 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	49.3	0.0	22.1#
277	33.8	2.5	42.5



Ref



ENTHALPY SPIKE USER REPORT FOR 303845 MSSIM Water
EPA 8270C-SIM

Type : LCS
 Inst : MSBNA03
 Seqnum : 528408101024.2
 File : vja24
 IDF : 1.0
 Lab ID : QC950897
 Matrix : Water
 Batch : 264323
 Time : 10-OCT-2018 21:56
 Cal : 528398235001
 Units : ug/L

LCS: 1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	Spiked	Raw	LCS	%Rec	Limits	Flags
Acenaphthene	1.000	0.7940	0.7940	79	51-120	u
Pyrene	1.000	0.8756	0.8756	88	60-120	u
Nitrobenzene-d5	1.000	1.008	1.008	101	48-124	c+ u
2-Fluorobiphenyl	1.000	0.7152	0.7152	72	51-120	u
Terphenyl-d14	1.000	0.8260	0.8260	83	25-120	u

ISTD (CCV vja06)	CCV Area	LCS Area	%Drift	CCV RT	LCS RT	Drift
Naphthalene-d8	120681	136523	13.13	9.04	9.04	0.00
Acenaphthene-d10	73056	85270	16.72	11.36	11.35	-0.01
Phenanthrene-d10	131399	158051	20.28	13.31	13.31	0.00
Chrysene-d12	105489	127844	21.19	16.78	16.78	0.00
Perylene-d12	87381	103810	18.80	18.52	18.52	0.01

VQ 10/11/18 [1,4-Dioxane]: Corrected automatically drawn baseline. [general version]

VQ 10/11/18 [Nitrobenzene-d5]: Recovery well within limits despite instrument bias [general version]

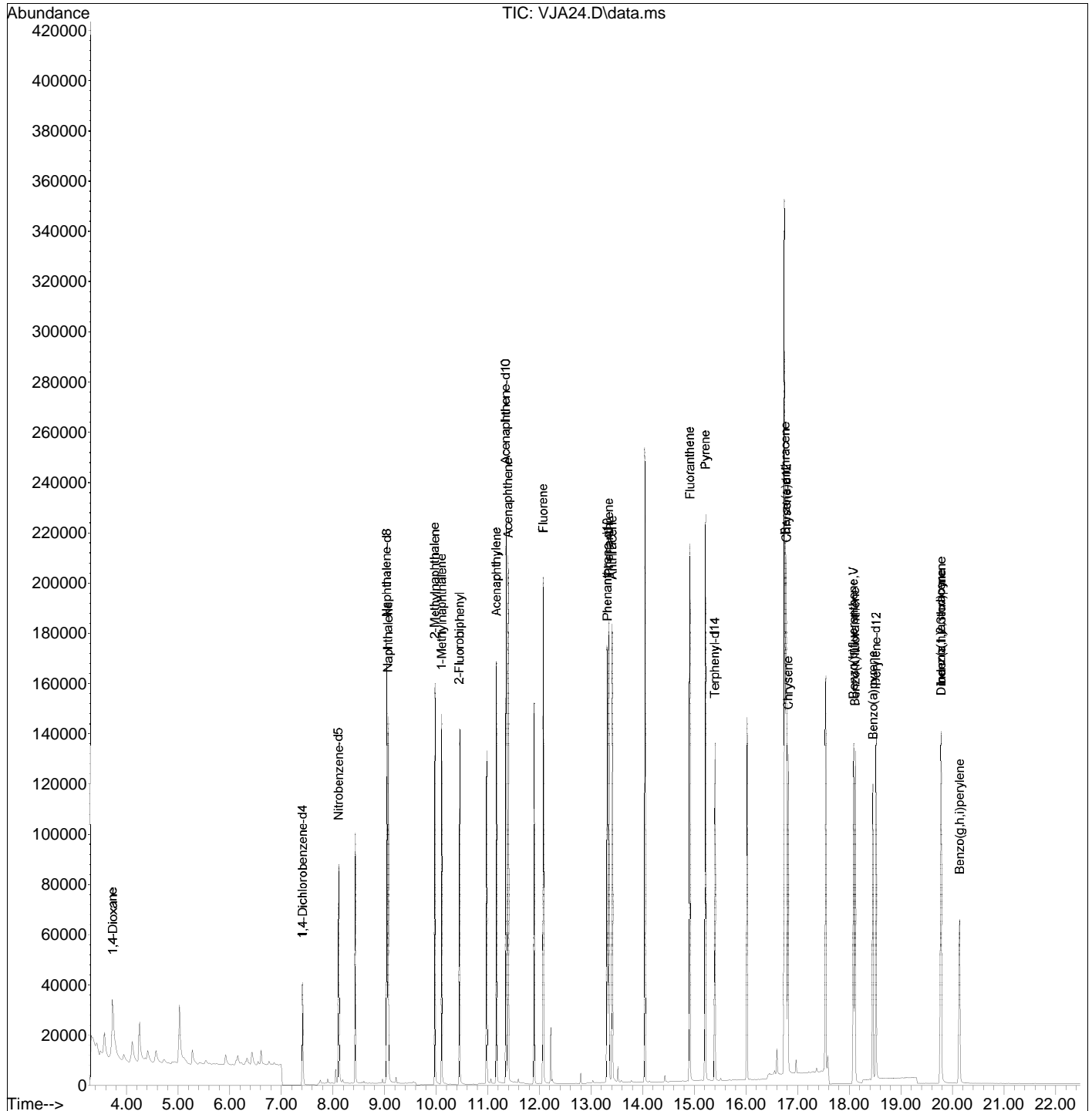
Analyst: YW1 Date: 10/18/18 Reviewer: LW Date: 10/18/18

+ = high bias c = CCV u = use

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101018\
 Data File : VJA24.D
 Acq On : 10 Oct 2018 9:56 pm
 Operator :
 Sample : lcs,qc950897
 Misc : 264323,1,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 11 10:32:24 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Oct 04 09:32:01 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101018\
 Data File : VJA24.D
 Acq On : 10 Oct 2018 9:56 pm
 Operator :
 Sample : lcs,qc950897
 Misc : 264323,1,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 11 10:32:24 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Oct 04 09:32:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.411	152	33901	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.042	136	136523	1.0000	ug/mL	-0.01
8) Acenaphthene-d10	11.351	164	85270	1.0000	ug/mL	-0.02
13) Phenanthrene-d10	13.312	188	158051	1.0000	ug/mL	-0.01
18) Chrysene-d12	16.776	240	127844	1.0000	ug/mL	-0.02
23) Perylene-d12	18.515	264	103810	1.0000	ug/mL	-0.02

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.731	88	34866m	2.2410	ug/mL	
4) Nitrobenzene-d5	8.105	82	43863	1.0084	ug/mL	93
5) Naphthalene	9.069	128	110489	0.8028	ug/mL	95
6) 2-Methylnaphthalene	9.973	142	84968	0.8148	ug/mL	95
7) 1-Methylnaphthalene	10.105	142	75196	0.7869	ug/mL	99
9) 2-Fluorobiphenyl	10.450	172	99453	0.7152	ug/mL	92
10) Acenaphthylene	11.163	152	119386	0.7929	ug/mL	95
11) Acenaphthene	11.395	154	74527	0.7940	ug/mL	93
12) Fluorene	12.071	166	94177	0.8153	ug/mL	99
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.341	178	134646	0.8191	ug/mL	99
16) Anthracene	13.406	178	129922	0.8018	ug/mL	99
17) Fluoranthene	14.912	202	156656	0.8003	ug/mL	96
19) Pyrene	15.213	202	156341	0.8756	ug/mL	100
20) Terphenyl-d14	15.392	244	120176	0.8260	ug/mL	83
21) Benzo(a)anthracene	16.761	228	134118	0.8228	ug/mL	98
22) Chrysene	16.811	228	90183	0.5793	ug/mL	96
24) Benzo(b)fluoranthene	18.077	252	112728	0.8411	ug/mL	97
25) Benzo(k)fluoranthene	18.110	252	109387	0.8021	ug/mL	96
26) Benzo(a)pyrene	18.452	252	96497	0.8037	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.771	276	87755	0.7477	ug/mL	# 33
28) Dibenz(a,h)anthracene	19.774	278	56705	0.5976	ug/mL	# 88
29) Benzo(g,h,i)perylene	20.131	276	69669	0.7554	ug/mL	# 90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ENTHALPY SPIKE USER REPORT FOR 303845 MSSIM Water
EPA 8270C-SIM

Type : MSS	Type : MS	Type : MSD
Inst : MSBNA03	Inst : MSBNA03	Inst : MSBNA03
Seqnum : 528418192020	Seqnum : 528418192018.1	Seqnum : 528418192019.1
File : vjh20	File : vjh18	File : vjh19
IDF : 1.0	IDF : 1.0	IDF : 1.0
Lab ID : 303882-003	Lab ID : QC950898	Lab ID : QC950899
Matrix : Water	Matrix : Water	Matrix : Water
Batch : 264323	Batch : 264323	Batch : 264323
Time : 17-OCT-2018 19:35	Time : 17-OCT-2018 18:28	Time : 17-OCT-2018 19:02
Cal : 528398235001	Cal : 528398235001	Cal : 528398235001
Units : ug/L		

MSS: 1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF
 MS: 1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF
 MSD: 1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	MSS	Spiked	MS Raw	MS Result	%Rec	MSD Raw	MSD Result	%Rec	Limits	RPD	Lim	Flags
Acenaphthene	0.02410	1.000	0.7968	0.7968	77	0.8184	0.8184	79	41-130	3	58	u
Pyrene	ND	1.000	0.7880	0.7880	79	0.8272	0.8272	83	50-130	5	45	u
Nitrobenzene-d5		1.000	1.068	1.068	107	1.068	1.068	107	48-124			c+ u
2-Fluorobiphenyl		1.000	0.7315	0.7315	73	0.7266	0.7266	73	51-120			u
Terphenyl-d14		1.000	0.6480	0.6480	65	0.6528	0.6528	65	25-120			u

ISTD (CCV vjh04)	CCV Area	MS Area	%Drift	CCV RT	MS RT	Drift
Naphthalene-d8	92514	98983	6.99	9.03	9.04	0.01
Acenaphthene-d10	55806	59092	5.89	11.35	11.35	0.00
Phenanthrene-d10	99881	94070	-5.82	13.31	13.31	0.00
Chrysene-d12	79516	66312	-16.61	16.78	16.78	0.00
Perylene-d12	65875	46513	-29.39	18.51	18.52	0.01

ISTD (CCV vjh04)	CCV Area	MSD Area	%Drift	CCV RT	MSD RT	Drift
Naphthalene-d8	92514	101445	9.65	9.03	9.04	0.01
Acenaphthene-d10	55806	60844	9.03	11.35	11.35	0.00
Phenanthrene-d10	99881	96364	-3.52	13.31	13.31	0.00
Chrysene-d12	79516	60690	-23.68	16.78	16.78	0.00
Perylene-d12	65875	40998	-37.76	18.51	18.52	0.01

YW1 10/18/18 [Dibenz(a,h)anthracene]: OK to report for 303860 and 303882.
[general version]

YW1 10/18/18 [Dibenz(a,h)anthracene]: Marginal low recovery in MS is likely due to matrix as the LCS, MSD, and RPD are within criteria. [general version]

YW1 10/18/18 [1,4-Dioxane]: Corrected automatically drawn baseline for spike & dup. [general version]

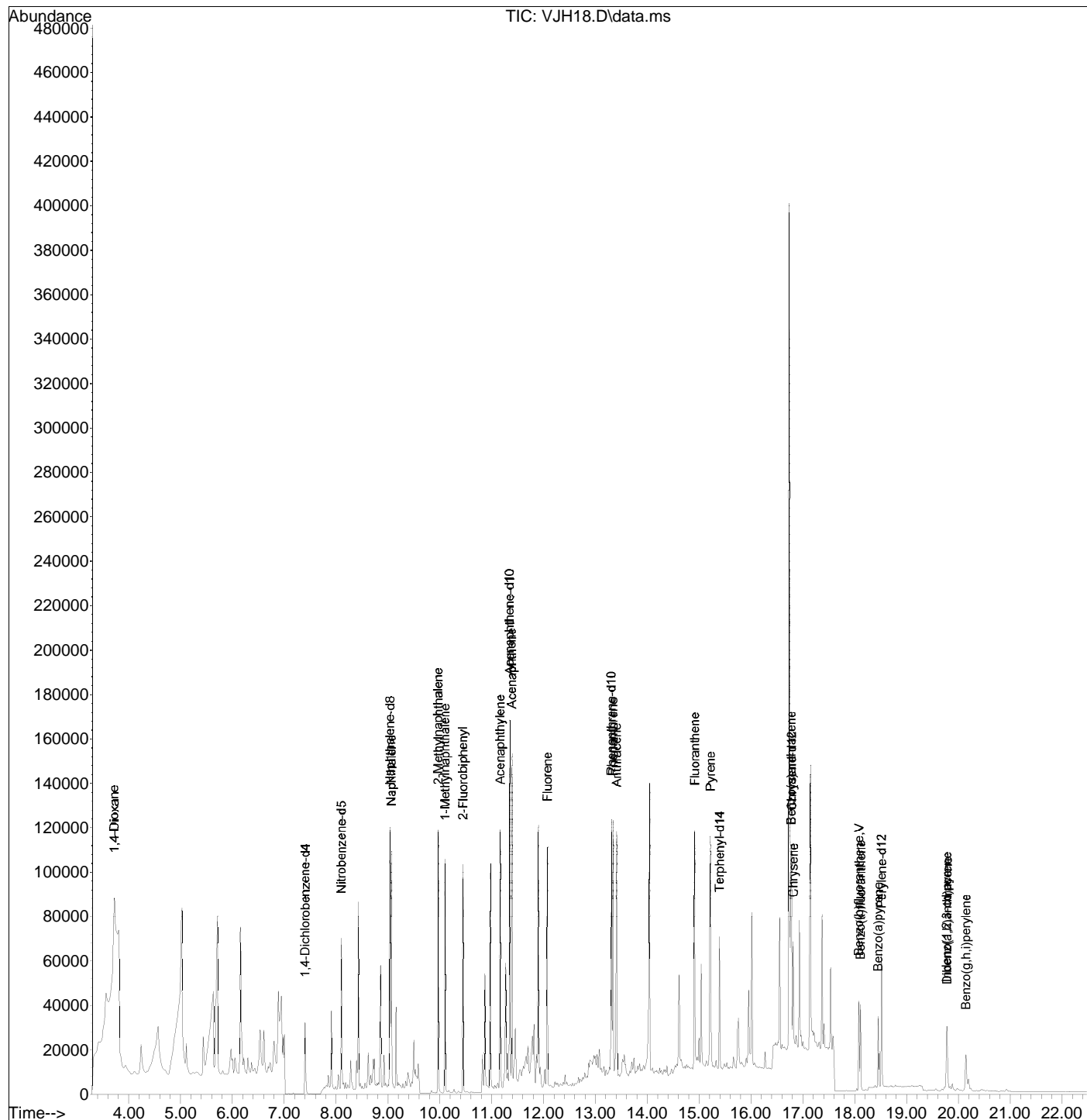
Analyst: YW1 Date: 10/18/18 Reviewer: LW Date: 10/18/18

+ = high bias c = CCV u = use

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101718\
 Data File : VJH18.D
 Acq On : 17 Oct 2018 6:28 pm
 Operator :
 Sample : MS, QC950898
 Misc : 264323,1,
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 18 10:55:53 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101718\
 Data File : VJH18.D
 Acq On : 17 Oct 2018 6:28 pm
 Operator :
 Sample : MS, QC950898
 Misc : 264323,1,
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 18 10:55:53 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.402	152	26243	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.039	136	98983	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.347	164	59092	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.306	188	94070	1.0000	ug/mL	0.00
18) Chrysene-d12	16.780	240	66312	1.0000	ug/mL	0.00
23) Perylene-d12	18.515	264	46513	1.0000	ug/mL	0.00

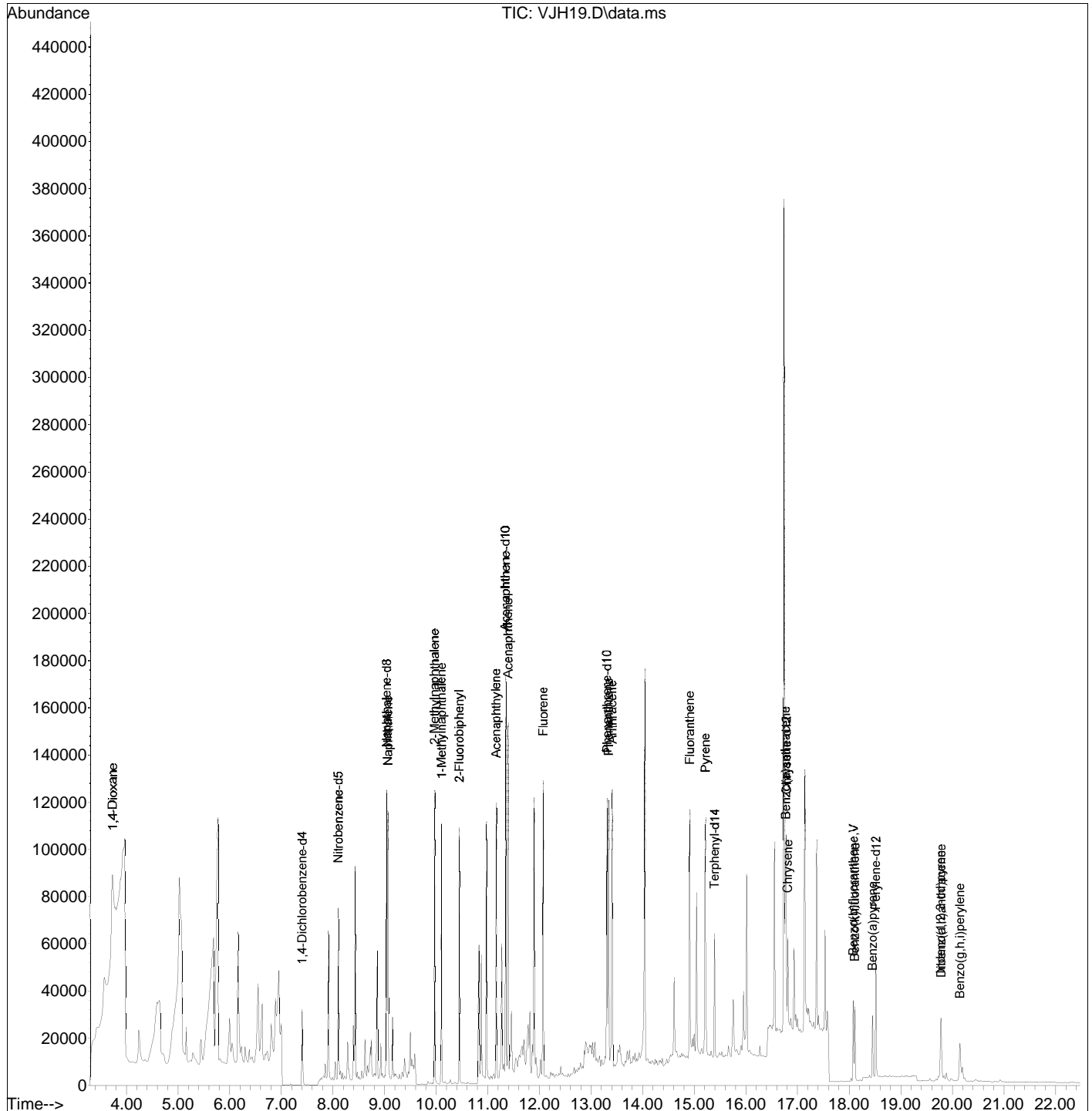
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.721	88	61338m	5.0930	ug/mL	
4) Nitrobenzene-d5	8.102	82	33675	1.0678	ug/mL	93
5) Naphthalene	9.063	128	80192	0.8036	ug/mL	93
6) 2-Methylnaphthalene	9.965	142	62729	0.8297	ug/mL	96
7) 1-Methylnaphthalene	10.101	142	53847	0.7772	ug/mL	98
9) 2-Fluorobiphenyl	10.446	172	70487	0.7315	ug/mL	92
10) Acenaphthylene	11.160	152	81063	0.7768	ug/mL	94
11) Acenaphthene	11.387	154	51833	0.7968	ug/mL	98
12) Fluorene	12.071	166	54294	0.6782	ug/mL	99
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.336	178	78205	0.7993	ug/mL	97
16) Anthracene	13.407	178	75657	0.7844	ug/mL	97
17) Fluoranthene	14.911	202	74935	0.6432	ug/mL	95
19) Pyrene	15.212	202	72982	0.7880	ug/mL	98
20) Terphenyl-d14	15.391	244	48901	0.6480	ug/mL	86
21) Benzo(a)anthracene	16.765	228	49193	0.5818	ug/mL	98
22) Chrysene	16.810	228	34250	0.4241	ug/mL	97
24) Benzo(b)fluoranthene	18.078	252	32436	0.5401	ug/mL	96
25) Benzo(k)fluoranthene	18.111	252	31692	0.5187	ug/mL	94
26) Benzo(a)pyrene	18.452	252	25547	0.4749	ug/mL	99
27) Indeno(1,2,3-cd)pyrene	19.773	276	20649	0.3927	ug/mL	# 30
28) Dibenz(a,h)anthracene	19.780	278	11965	0.2814	ug/mL	# 86
29) Benzo(g,h,i)perylene	20.143	276	17166	0.4154	ug/mL	# 89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101718\
 Data File : VJH19.D
 Acq On : 17 Oct 2018 7:02 pm
 Operator :
 Sample : MSD, QC950899
 Misc : 264323,1,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 18 10:56:55 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101718\
 Data File : VJH19.D
 Acq On : 17 Oct 2018 7:02 pm
 Operator :
 Sample : MSD, QC950899
 Misc : 264323,1,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 18 10:56:55 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.402	152	26824	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.039	136	101445	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.347	164	60844	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.306	188	96364	1.0000	ug/mL	0.00
18) Chrysene-d12	16.780	240	60690	1.0000	ug/mL	0.00
23) Perylene-d12	18.518	264	40998	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.732	88	63993m	5.1983	ug/mL	
4) Nitrobenzene-d5	8.103	82	34515	1.0679	ug/mL	91
5) Naphthalene	9.064	128	83626	0.8177	ug/mL	93
6) 2-Methylnaphthalene	9.969	142	65443	0.8446	ug/mL	96
7) 1-Methylnaphthalene	10.101	142	57086	0.8040	ug/mL	99
9) 2-Fluorobiphenyl	10.446	172	72097	0.7266	ug/mL	90
10) Acenaphthylene	11.160	152	85829	0.7988	ug/mL	93
11) Acenaphthene	11.392	154	54813	0.8184	ug/mL	95
12) Fluorene	12.070	166	58574	0.7106	ug/mL	98
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.335	178	81858	0.8168	ug/mL	97
16) Anthracene	13.406	178	79763	0.8073	ug/mL	97
17) Fluoranthene	14.911	202	72735	0.6094	ug/mL	96
19) Pyrene	15.212	202	70116	0.8272	ug/mL	98
20) Terphenyl-d14	15.391	244	45085	0.6528	ug/mL	84
21) Benzo(a)anthracene	16.765	228	43865	0.5669	ug/mL	98
22) Chrysene	16.809	228	29463	0.3987	ug/mL	97
24) Benzo(b)fluoranthene	18.081	252	26966	0.5094	ug/mL	93
25) Benzo(k)fluoranthene	18.111	252	26521	0.4924	ug/mL	93
26) Benzo(a)pyrene	18.454	252	22064	0.4653	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.776	276	19654	0.4240	ug/mL	# 29
28) Dibenz(a,h)anthracene	19.783	278	11067	0.2953	ug/mL	# 84
29) Benzo(g,h,i)perylene	20.146	276	16817	0.4617	ug/mL	# 87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Initial Calibration Raw Data

ENTHALPY DFTPP TUNE FOR 303845 MSSIM Water
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM IDF : 1.0
Seqnum : 528398235003 File : vj303 Time : 03-OCT-2018 17:24
Caltype : DFTPP/PEM

Standards: S38424

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	218878	45.17	
68	< 2% of mass 69	0	0.00	
69		216359	100.00	
70	< 2% of mass 69	1211	0.56	
127	40% - 60% of mass 198	240146	49.56	
197	< 1% of mass 198	0	0.00	
198		484522	100.00	
199	5% - 9% of mass 198	33552	6.92	
275	10% - 30% of mass 198	132170	27.28	
365	> 1% of mass 198	13034	2.69	
441	Present, < mass 443	56994	81.44	
442	> 40% and < 100% of mass 198	352746	72.80	
443	17% - 23% of mass 442	69981	19.84	

VQ 10/03/18 [4,4'-DDD]: Picked or reassigned peak.

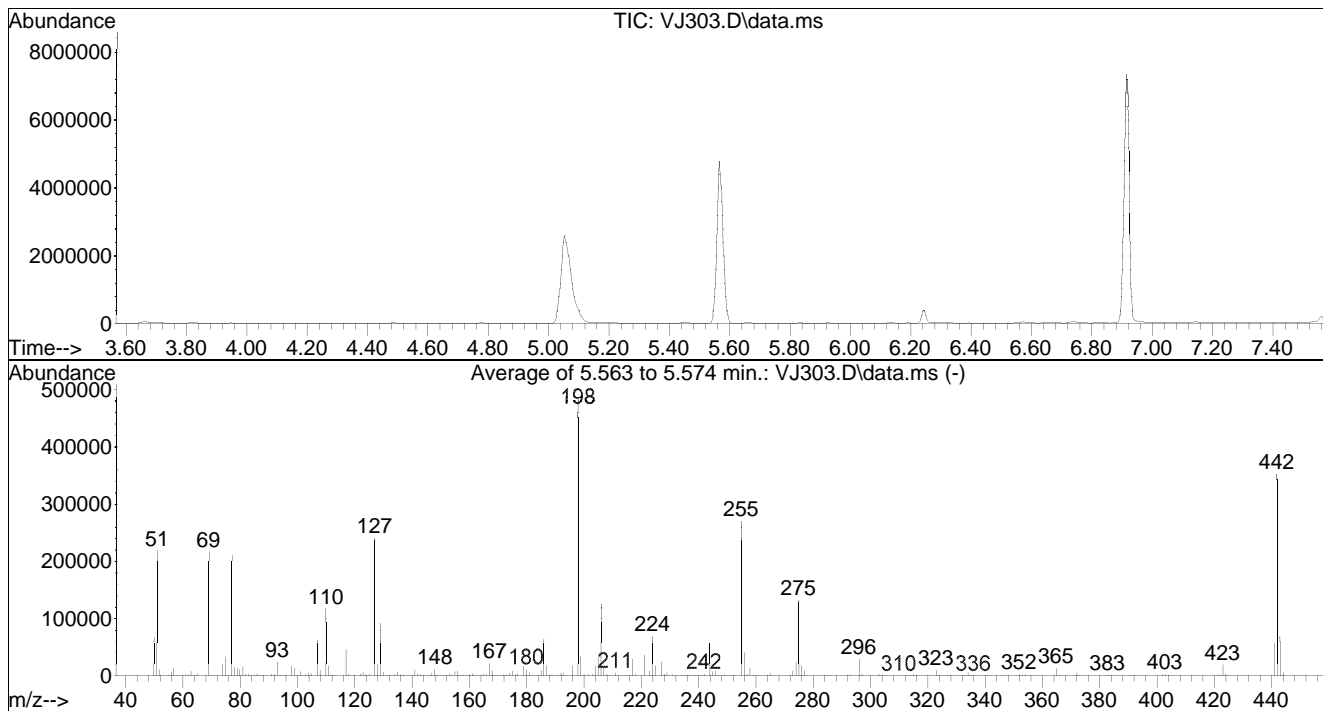
YW1 10/04/18 [4,4'-DDD]: The original peak was the correct peak.

VQ: 10/03/18 * YW1: 10/04/18 LW: 10/04/18

Data Path : G:\csinput.net\DATA\100318\
 Data File : VJ303.D
 Acq On : 3 Oct 2018 5:24 pm
 Operator :
 Sample : TUN,S38424
 Misc : DFTPP/PEM
 ALS Vial : 2 Sample Multiplier: 1

Integration File: normal.p

Method : C:\msdchem\1\METHODS\DFTPP03.M
 Title : MSBNA03 BNA DFTPP/PEM
 Last Update : Mon May 14 18:51:55 2018



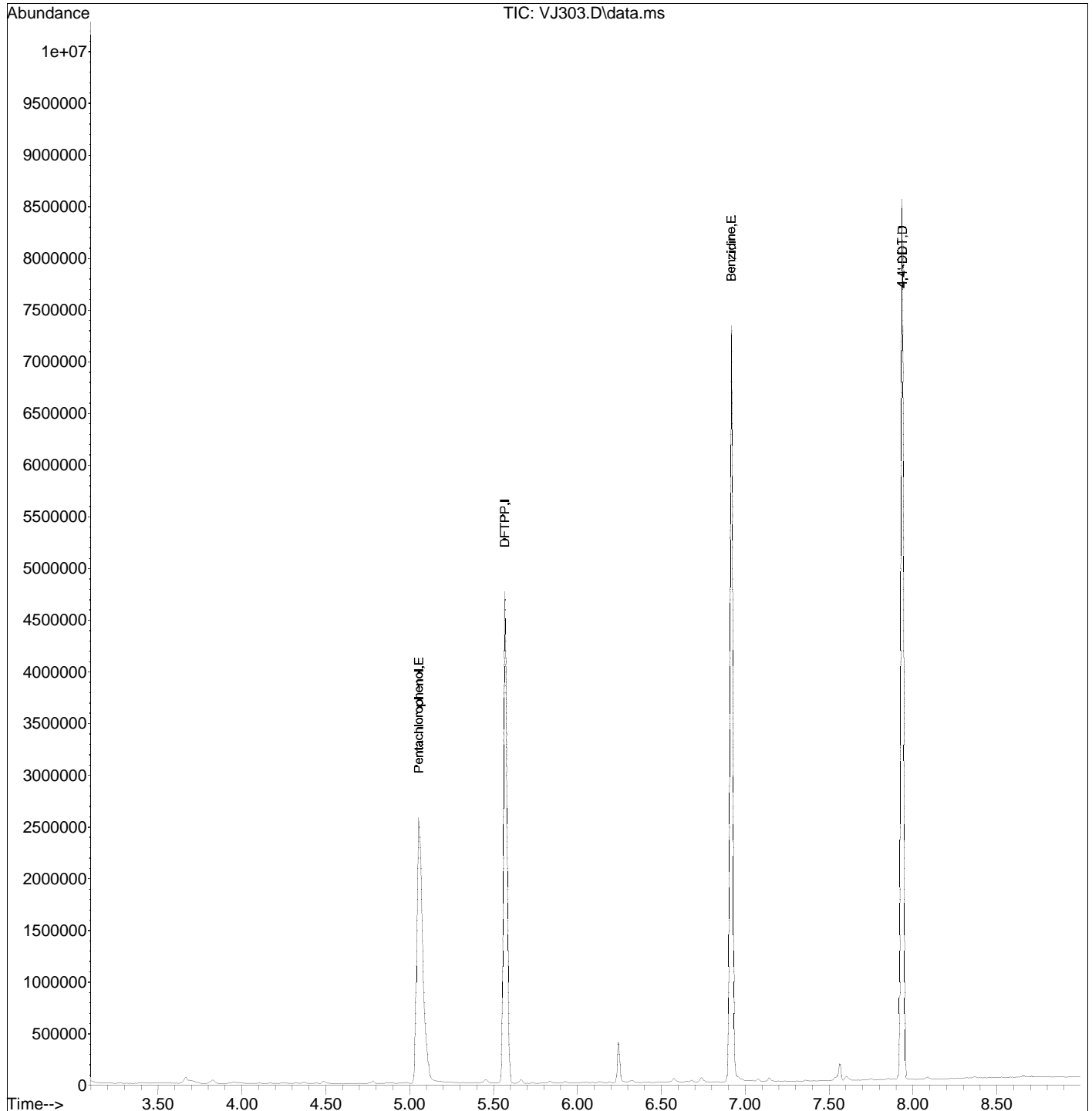
AutoFind: Scans 433, 434, 435; Background Corrected with Scan 427

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.2	218878	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.7	216359	PASS
70	69	0.00	2	0.6	1211	PASS
127	198	40	60	49.6	240146	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	484522	PASS
199	198	5	9	6.9	33552	PASS
275	198	10	30	27.3	132170	PASS
365	198	1	100	2.7	13034	PASS
441	443	0.01	100	81.4	56994	PASS
442	198	40	100	72.8	352746	PASS
443	442	17	23	19.8	69981	PASS

Quantitation Report (Not Reviewed)

Data Path : G:\msbna03\100318\
Data File : VJ303.D
Acq On : 3 Oct 2018 5:24 pm
Operator :
Sample : TUN,S38424
Misc : DFTPP/PEM
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 04 09:58:12 2018
Quant Method : G:\msbna03\100318\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Mon May 14 18:51:55 2018
Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D



Quantitation Report (Not Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ303.D
 Acq On : 3 Oct 2018 5:24 pm
 Operator :
 Sample : TUN,S38424
 Misc : DFTPP/PEM
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 04 09:58:12 2018
 Quant Method : G:\msbna03\100318\DFTPP03.M
 Quant Title : MSBNA03 BNA DFTPP/PEM
 QLast Update : Mon May 14 18:51:55 2018
 Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.569	198	766794	50.0000	ug/mL	-0.05
4) 4,4'-DDT	7.934	235	1751864	50.0000	ug/mL	-0.05

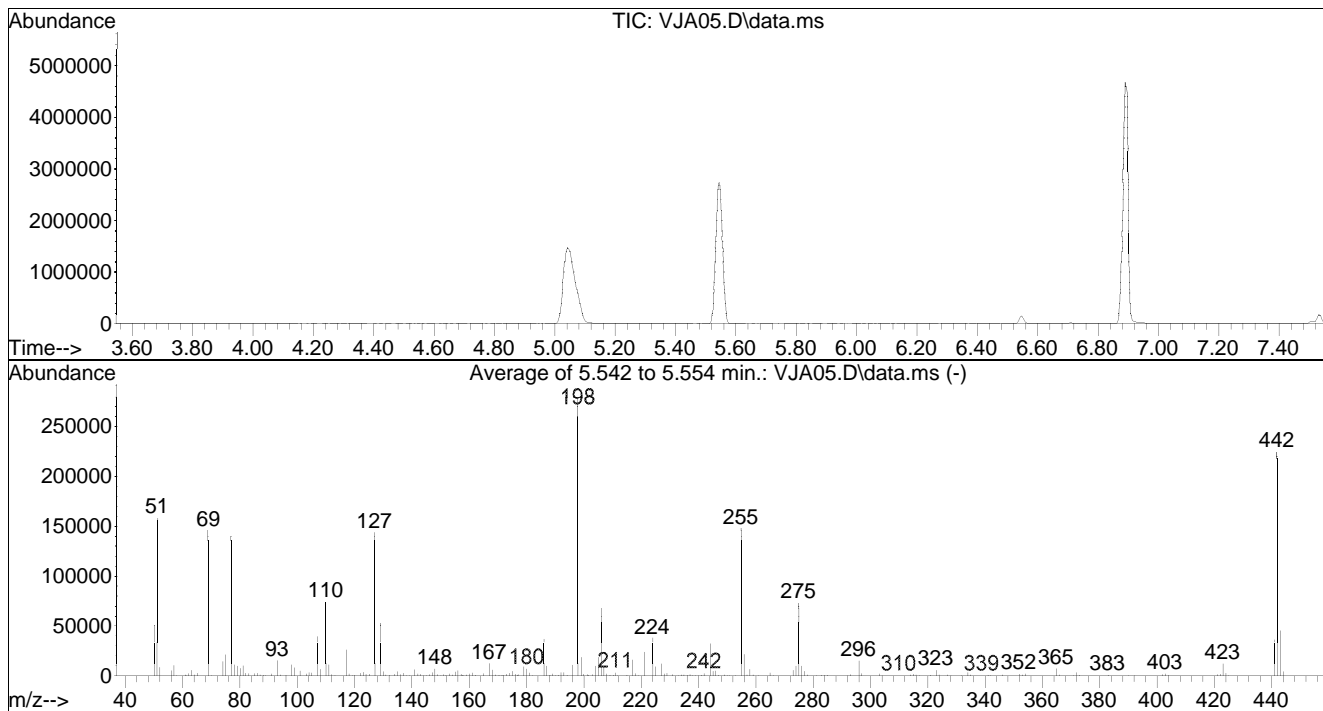
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
1) Pentachlorophenol	5.054	266	903650	207.7853	ug/mL	97
3) Benzidine	6.917	184	3411593	53.2389	ug/mL	90
5) 4,4'-DDE	7.140	246	3855	No CC lev	#	
6) 4,4'-DDD	7.563	235	46015	No CC lev		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : G:\csinput.net\DATA\101018\
 Data File : VJA05.D
 Acq On : 10 Oct 2018 11:32 am
 Operator :
 Sample : TUN,S38424
 Misc : DFTPP/PEM
 ALS Vial : 3 Sample Multiplier: 1

Integration File: normal.p

Method : C:\msdchem\1\METHODS\DFTPP03.M
 Title : MSBNA03 BNA DFTPP/PEM
 Last Update : Mon May 14 18:51:55 2018



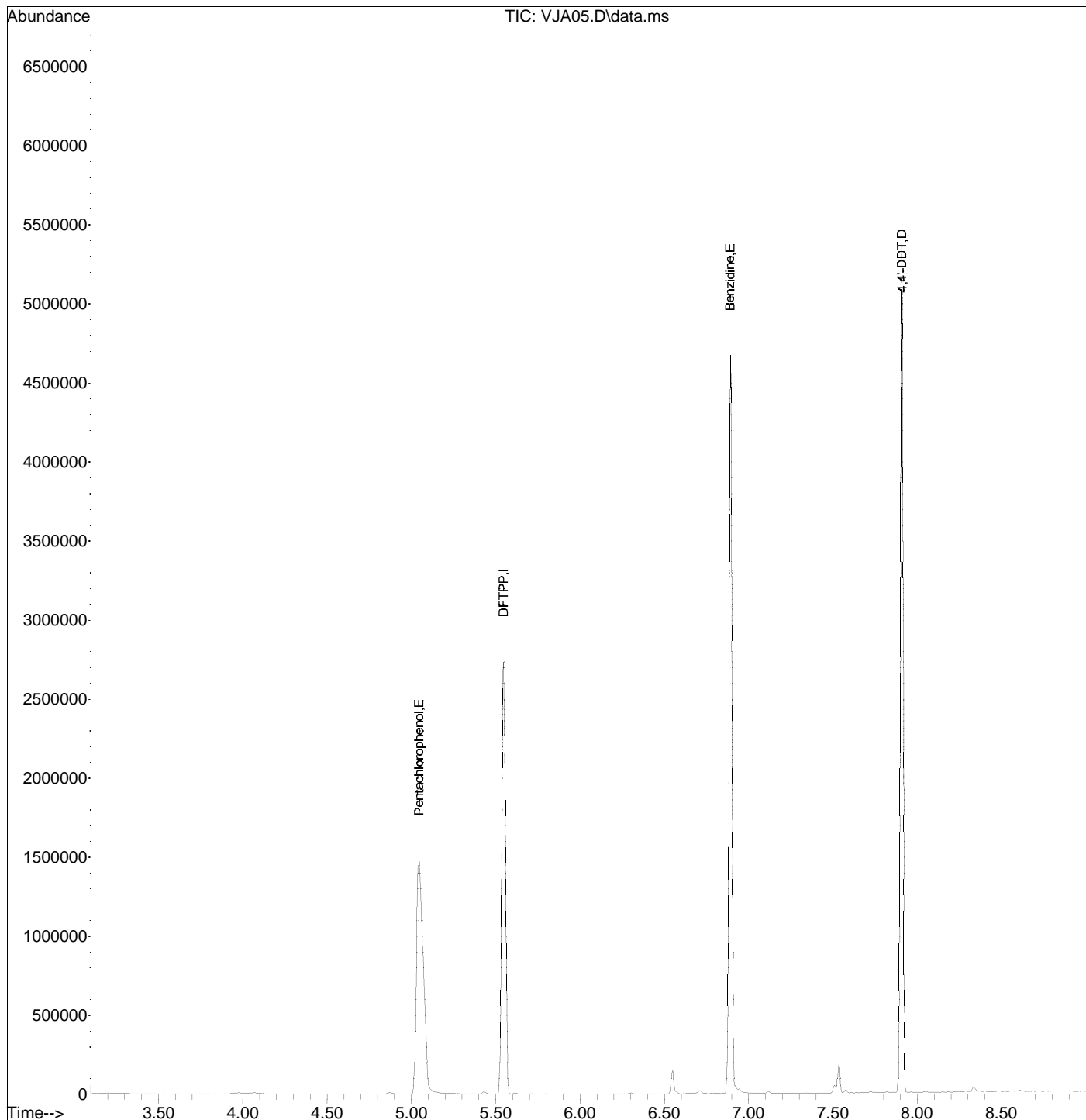
AutoFind: Scans 429, 430, 431; Background Corrected with Scan 422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	56.9	158032	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.3	145336	PASS
70	69	0.00	2	0.2	287	PASS
127	198	40	60	51.6	143394	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	277802	PASS
199	198	5	9	6.7	18500	PASS
275	198	10	30	26.1	72637	PASS
365	198	1	100	2.5	7077	PASS
441	443	0.01	100	79.9	35677	PASS
442	198	40	100	80.8	224362	PASS
443	442	17	23	19.9	44634	PASS

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101018\
Data File : VJA05.D
Acq On : 10 Oct 2018 11:32 am
Operator :
Sample : TUN,S38424
Misc : DFTPP/PEM
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 10 11:42:29 2018
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Mon May 14 18:51:55 2018
Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101018\
 Data File : VJA05.D
 Acq On : 10 Oct 2018 11:32 am
 Operator :
 Sample : TUN,S38424
 Misc : DFTPP/PEM
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 10 11:42:29 2018
 Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
 Quant Title : MSBNA03 BNA DFTPP/PEM
 QLast Update : Mon May 14 18:51:55 2018
 Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.548	198	468242	50.0000	ug/mL	-0.07
4) 4,4'-DDT	7.908	235	1203258	50.0000	ug/mL	-0.08

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
1) Pentachlorophenol	5.045	266	570357	131.1479	ug/mL	98
3) Benzidine	6.891	184	2356808	60.2289	ug/mL	91
5) 4,4'-DDE	7.119	246	1723	No CC lev	#	
6) 4,4'-DDD	7.531	235	41278	No CC lev		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ENTHALPY DFTPP TUNE FOR 303845 MSSIM Water
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM IDF : 1.0
Seqnum : 528418192003 File : vjh03 Time : 17-OCT-2018 10:38
Caltype : DFTPP/PEM

Standards: S38424

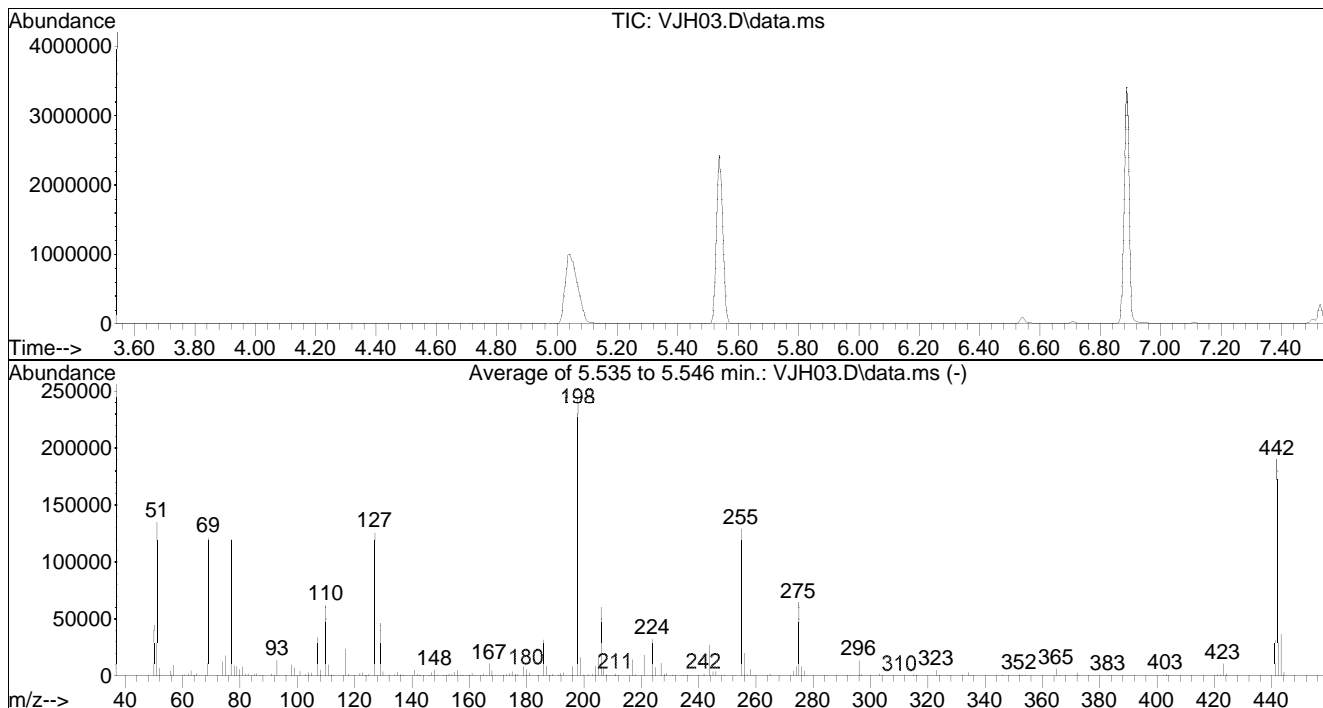
Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	134930	55.43	
68	< 2% of mass 69	0	0.00	
69		121665	100.00	
70	< 2% of mass 69	207	0.17	
127	40% - 60% of mass 198	125906	51.72	
197	< 1% of mass 198	0	0.00	
198		243434	100.00	
199	5% - 9% of mass 198	16486	6.77	
275	10% - 30% of mass 198	64208	26.38	
365	> 1% of mass 198	6441	2.65	
441	Present, < mass 443	30906	85.37	
442	> 40% and < 100% of mass 198	189525	77.85	
443	17% - 23% of mass 442	36202	19.10	

Analyst: YW1 Date: 10/17/18 Reviewer: LW Date: 10/17/18

Data Path : G:\csinput.net\DATA\101718\
 Data File : VJH03.D
 Acq On : 17 Oct 2018 10:38 am
 Operator :
 Sample : TUN,S38424
 Misc : DFTPP/PEM
 ALS Vial : 3 Sample Multiplier: 1

Integration File: normal.p

Method : C:\msdchem\1\METHODS\DFTPP03.M
 Title : MSBNA03 BNA DFTPP/PEM
 Last Update : Mon May 14 18:51:55 2018



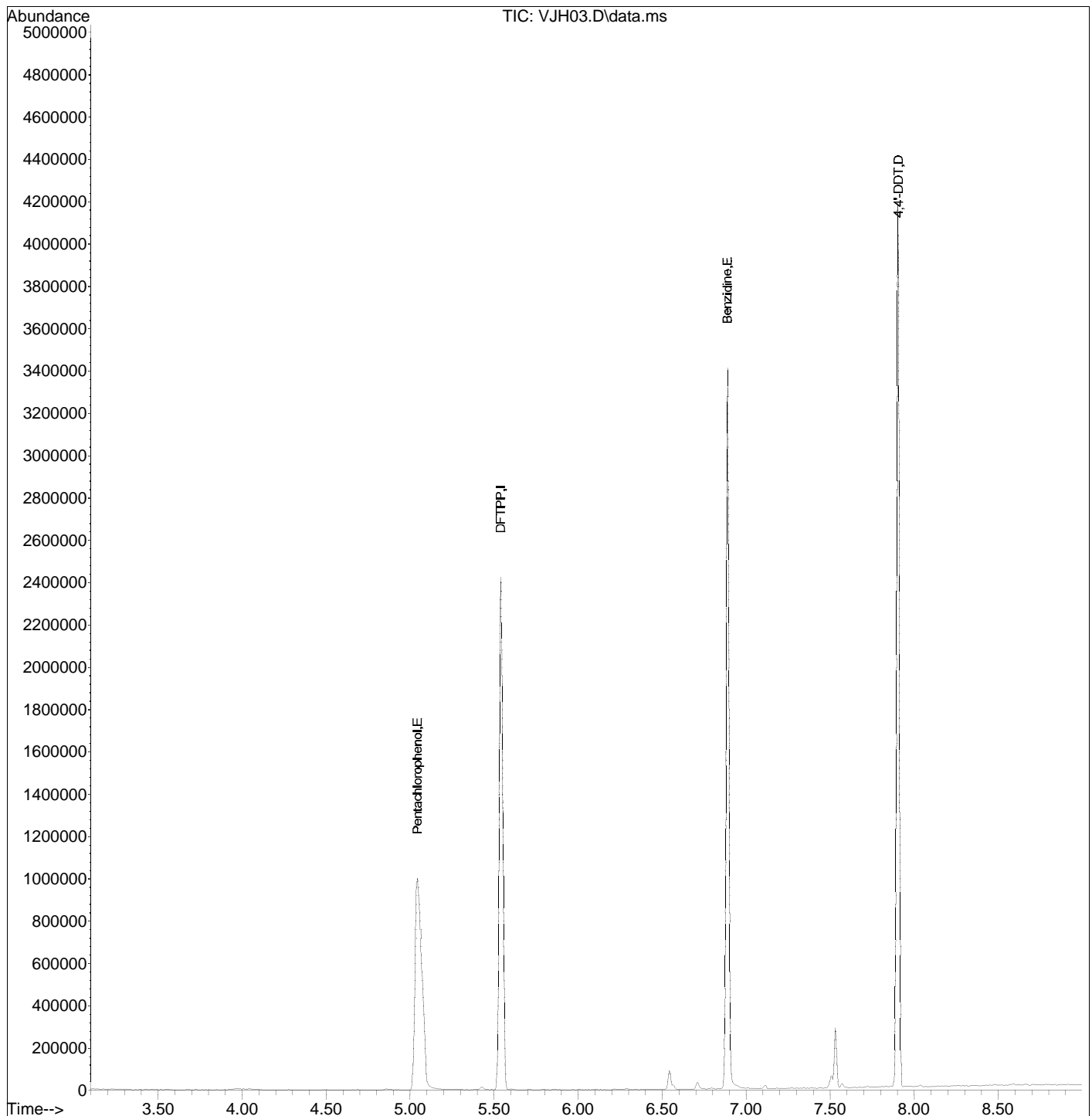
AutoFind: Scans 428, 429, 430; Background Corrected with Scan 422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.4	134930	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	50.0	121665	PASS
70	69	0.00	2	0.2	207	PASS
127	198	40	60	51.7	125906	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	243434	PASS
199	198	5	9	6.8	16486	PASS
275	198	10	30	26.4	64208	PASS
365	198	1	100	2.6	6441	PASS
441	443	0.01	100	85.4	30906	PASS
442	198	40	100	77.9	189525	PASS
443	442	17	23	19.1	36202	PASS

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101718\
Data File : VJH03.D
Acq On : 17 Oct 2018 10:38 am
Operator :
Sample : TUN,S38424
Misc : DFTPP/PEM
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 10:47:26 2018
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Mon May 14 18:51:55 2018
Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101718\
 Data File : VJH03.D
 Acq On : 17 Oct 2018 10:38 am
 Operator :
 Sample : TUN,S38424
 Misc : DFTPP/PEM
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 10:47:26 2018
 Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
 Quant Title : MSBNA03 BNA DFTPP/PEM
 QLast Update : Mon May 14 18:51:55 2018
 Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.541	198	397476	50.0000	ug/mL	-0.08
4) 4,4'-DDT	7.906	235	910890	50.0000	ug/mL	-0.08

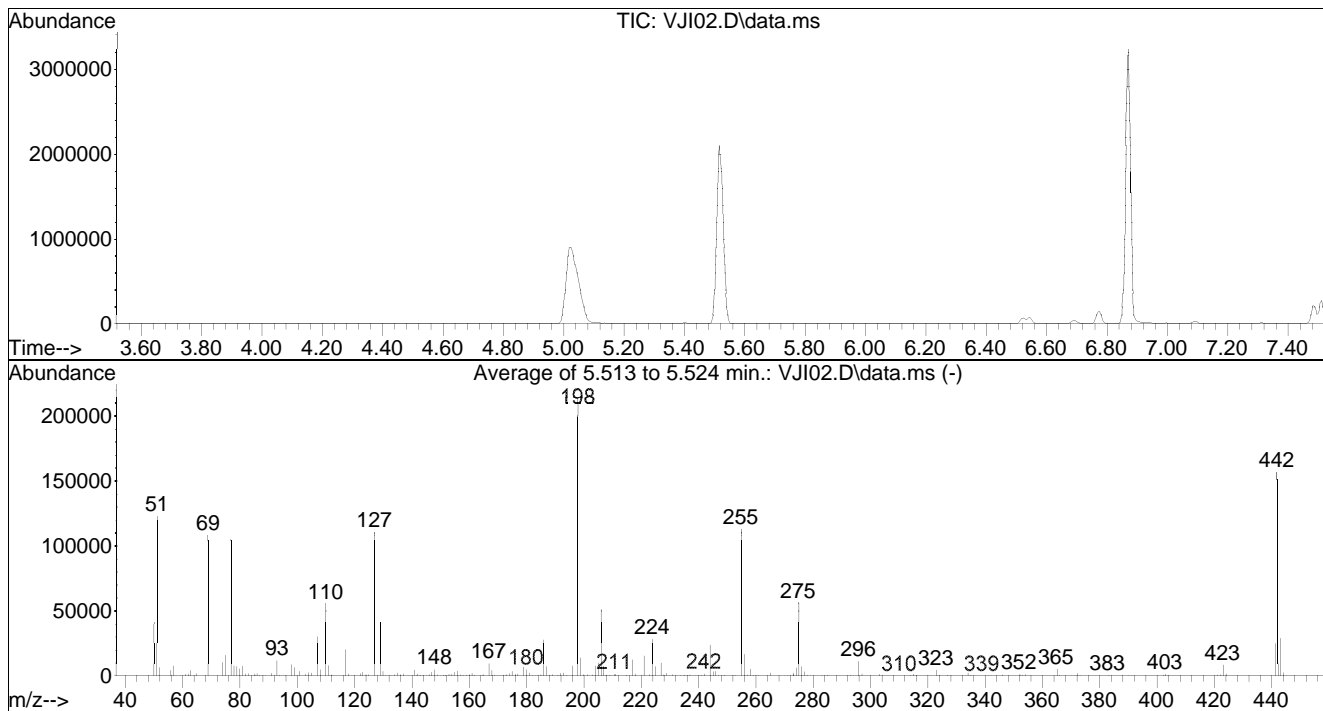
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
1) Pentachlorophenol	5.043	266	388046	89.2273	ug/mL	96
3) Benzidine	6.889	184	1650417	49.6860	ug/mL	93
5) 4,4'-DDE	7.112	246	2039	No CC lev	#	
6) 4,4'-DDD	7.529	235	59777	No CC lev		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : G:\csinput.net\DATA\101818\
 Data File : VJI02.D
 Acq On : 18 Oct 2018 9:59 am
 Operator :
 Sample : TUN,S38424
 Misc : DFTPP/PEM
 ALS Vial : 2 Sample Multiplier: 1

Integration File: normal.p

Method : C:\msdchem\1\METHODS\DFTPP03.M
 Title : MSBNA03 BNA DFTPP/PEM
 Last Update : Mon May 14 18:51:55 2018



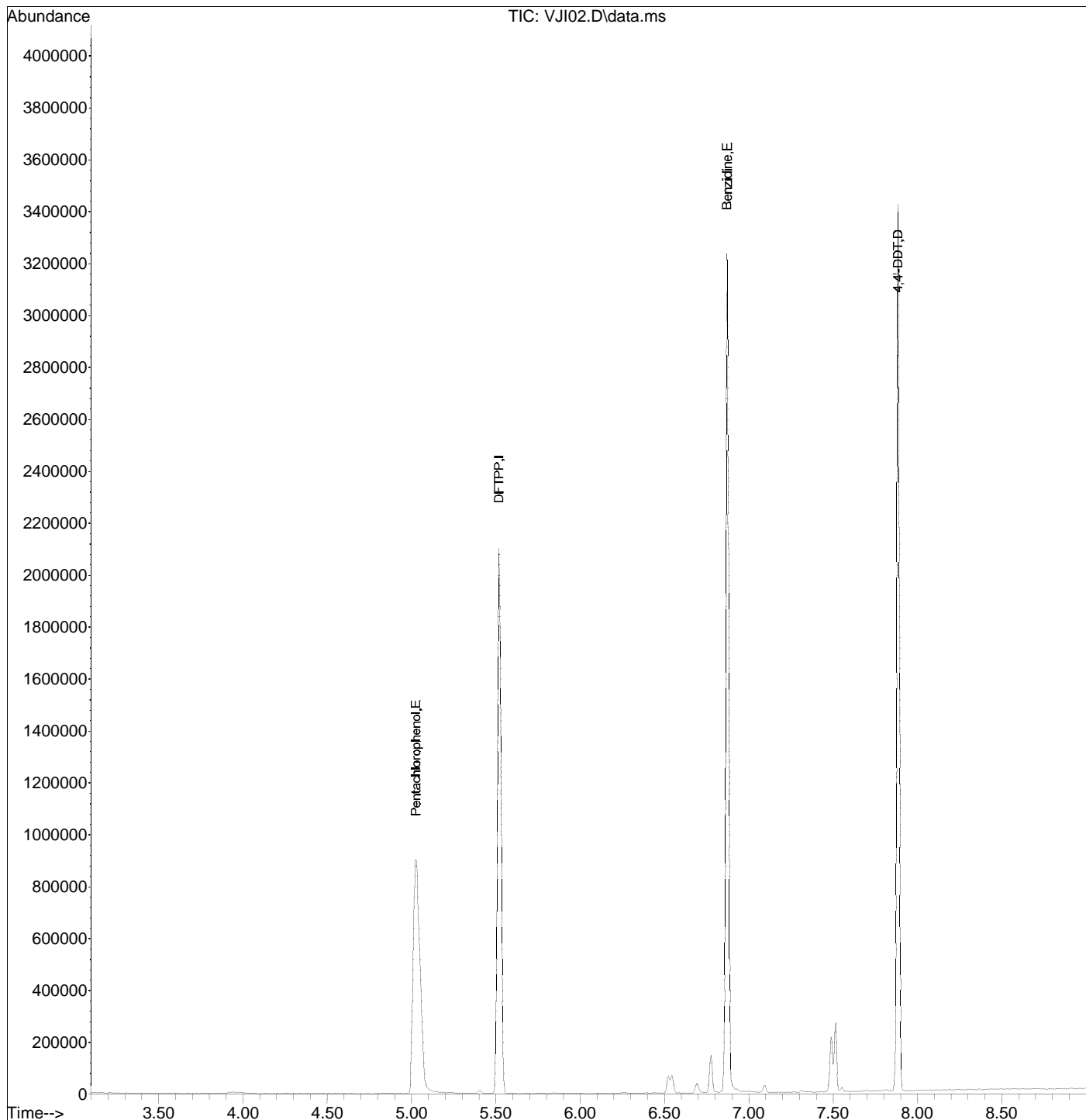
AutoFind: Scans 424, 425, 426; Background Corrected with Scan 418

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	57.5	122737	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	50.7	108330	PASS
70	69	0.00	2	0.2	206	PASS
127	198	40	60	51.8	110573	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	213461	PASS
199	198	5	9	6.6	14118	PASS
275	198	10	30	26.3	56149	PASS
365	198	1	100	2.7	5662	PASS
441	443	0.01	100	86.3	25170	PASS
442	198	40	100	73.4	156648	PASS
443	442	17	23	18.6	29154	PASS

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101818\
Data File : VJI02.D
Acq On : 18 Oct 2018 9:59 am
Operator :
Sample : TUN,S38424
Misc : DFTPP/PEM
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 18 10:09:01 2018
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Mon May 14 18:51:55 2018
Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\101818\
 Data File : VJI02.D
 Acq On : 18 Oct 2018 9:59 am
 Operator :
 Sample : TUN,S38424
 Misc : DFTPP/PEM
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 18 10:09:01 2018
 Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
 Quant Title : MSBNA03 BNA DFTPP/PEM
 QLast Update : Mon May 14 18:51:55 2018
 Response via : Continuing Cal File: G:\msbna03\051418\VEE15.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.518	198	350019	50.0000	ug/mL	-0.10
4) 4,4'-DDT	7.884	235	704538	50.0000	ug/mL	-0.10

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
1) Pentachlorophenol	5.027	266	352846	81.1334	ug/mL	98
3) Benzidine	6.873	184	1558638	53.2849	ug/mL	94
5) 4,4'-DDE	7.090	246	3193	No CC lev	#	
6) 4,4'-DDD	7.513	235	57971	No CC lev		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ENTHALPY INITIAL CALIBRATION FOR 303845 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA03
 Calnum : 528398235001
 Units : ug/mL

Name : 3PAHSIM
 Date : 03-OCT-2018 18:23
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vj304	528398235004	ICAL	03-OCT-2018 18:23	S38009
L2	vj305	528398235005	ICAL	03-OCT-2018 18:55	S38010
L3	vj306	528398235006	ICAL	03-OCT-2018 19:27	S38011
L4	vj307	528398235007	ICAL	03-OCT-2018 20:00	S38012
L5	vj308	528398235008	ICAL	03-OCT-2018 20:32	S38013
L6	vj309	528398235009	ICAL	03-OCT-2018 21:05	S38014
L7	vj310	528398235010	ICAL	03-OCT-2018 21:38	S38015

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r ² %RSD	Max %RSD	Min RF	Min r ²	Flg
Naphthalene	1.0845	1.0762	1.0629	1.0678	1.0051	0.9281	0.8322	AVRG		0.99195		1.0081	9	15	0.05	0.99	
Acenaphthylene	1.8912	1.8959	1.8851	1.8573	1.7560	1.6257	1.4500	AVRG		0.56629		1.7659	10	15	0.05	0.99	
Acenaphthene	1.1459	1.1740	1.1493	1.1546	1.1056	1.0348	0.9412	AVRG		0.90844		1.1008	8	15	0.05	0.99	
Fluorene	1.4651	1.4634	1.4378	1.4092	1.3560	1.2442	1.1074	AVRG		0.73815		1.3547	10	15	0.05	0.99	
Phenanthrene	1.1158	1.1257	1.0751	1.0909	1.0465	0.9629	0.8634	AVRG		0.96150		1.0400	9	15	0.05	0.99	
Anthracene	1.0943	1.0889	1.0703	1.0819	1.0368	0.9497	0.8551	AVRG		0.97534		1.0253	9	15	0.05	0.99	
Fluoranthene	1.3382	1.3397	1.2846	1.2921	1.2527	1.1257	1.0366	AVRG		0.80743		1.2385	9	15	0.05	0.99	
Pyrene	1.5373	1.4998	1.4711	1.4557	1.3749	1.2882	1.1491	AVRG		0.71602		1.3966	10	15	0.05	0.99	
Benzo(a)anthracene	1.3393	1.3629	1.3193	1.3511	1.2894	1.1914	1.0714	AVRG		0.78432		1.2750	8	15	0.05	0.99	
Chrysene	1.2682	1.2853	1.2949	1.2966	1.2428	1.1323	1.0041	AVRG		0.82120		1.2177	9	15	0.05	0.99	
Benzo(b)fluoranthene	1.3504	1.3476	1.3226	1.3465	1.3078	1.2300	1.1327	AVRG		0.77454		1.2911	6	15	0.05	0.99	
Benzo(k)fluoranthene	1.3327	1.3218	1.4037	1.4563	1.2613	1.2610	1.1588	AVRG		0.76124		1.3137	8	15	0.05	0.99	
Benzo(a)pyrene	1.1659	1.1936	1.1707	1.2093	1.1820	1.1230	1.0512	AVRG		0.86466		1.1565	5	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.0772	1.1306	1.1079	1.1614	1.1585	1.1561	1.1219	AVRG		0.88455		1.1305	3	15	0.05	0.99	
Dibenz(a,h)anthracene	0.8521	0.8739	0.8773	0.9364	0.9399	0.9634	0.9557	AVRG		1.09398		0.9141	5	15	0.05	0.99	
Benzo(g,h,i)perylene	0.8796	0.9069	0.8659	0.9049	0.8950	0.8966	0.8699	AVRG		1.12562		0.8884	2	15	0.05	0.99	
Nitrobenzene-d5	0.2932	0.3052	0.3180	0.3325	0.3311	0.3307	0.3194	AVRG		3.13876		0.3186	5	15	0.05	0.99	
2-Fluorobiphenyl	1.8072	1.8100	1.7387	1.7122	1.6056	1.4474	1.2944	AVRG		0.61320		1.6308	12	15	0.05	0.99	
Terphenyl-d14	1.2106	1.1986	1.1859	1.1921	1.1468	1.0630	0.9691	AVRG		0.87871		1.1380	8	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.1000	8	0.2000	7	0.5000	5	1.0000	6	2.0000	0	5.0000	-8	10.000	-17
Acenaphthylene	0.1000	7	0.2000	7	0.5000	7	1.0000	5	2.0000	-1	5.0000	-8	10.000	-18
Acenaphthene	0.1000	4	0.2000	7	0.5000	4	1.0000	5	2.0000	0	5.0000	-6	10.000	-14
Fluorene	0.1000	8	0.2000	8	0.5000	6	1.0000	4	2.0000	0	5.0000	-8	10.000	-18
Phenanthrene	0.1000	7	0.2000	8	0.5000	3	1.0000	5	2.0000	1	5.0000	-7	10.000	-17
Anthracene	0.1000	7	0.2000	6	0.5000	4	1.0000	6	2.0000	1	5.0000	-7	10.000	-17
Fluoranthene	0.1000	8	0.2000	8	0.5000	4	1.0000	4	2.0000	1	5.0000	-9	10.000	-16
Pyrene	0.1000	10	0.2000	7	0.5000	5	1.0000	4	2.0000	-2	5.0000	-8	10.000	-18
Benzo(a)anthracene	0.1000	5	0.2000	7	0.5000	3	1.0000	6	2.0000	1	5.0000	-7	10.000	-16
Chrysene	0.1000	4	0.2000	6	0.5000	6	1.0000	6	2.0000	2	5.0000	-7	10.000	-18
Benzo(b)fluoranthene	0.1000	5	0.2000	4	0.5000	2	1.0000	4	2.0000	1	5.0000	-5	10.000	-12
Benzo(k)fluoranthene	0.1000	1	0.2000	1	0.5000	7	1.0000	11	2.0000	-4	5.0000	-4	10.000	-12
Benzo(a)pyrene	0.1000	1	0.2000	3	0.5000	1	1.0000	5	2.0000	2	5.0000	-3	10.000	-9
Indeno(1,2,3-cd)pyrene	0.1000	-5	0.2000	0	0.5000	-2	1.0000	3	2.0000	2	5.0000	2	10.000	-1
Dibenz(a,h)anthracene	0.1000	-7	0.2000	-4	0.5000	-4	1.0000	2	2.0000	3	5.0000	5	10.000	5
Benzo(g,h,i)perylene	0.1000	-1	0.2000	2	0.5000	-3	1.0000	2	2.0000	1	5.0000	1	10.000	-2
Nitrobenzene-d5	0.1000	-8	0.2000	-4	0.5000	0	1.0000	4	2.0000	4	5.0000	4	10.000	0
2-Fluorobiphenyl	0.1000	11	0.2000	11	0.5000	7	1.0000	5	2.0000	-2	5.0000	-11	10.000	-21
Terphenyl-d14	0.1000	6	0.2000	5	0.5000	4	1.0000	5	2.0000	1	5.0000	-7	10.000	-15

YW1 10/04/18 [1,4-Dioxane]: Corrected automatically drawn baseline in multiple levels.

Analyst: YW1

Date: 10/04/18

Reviewer: LW

Date: 10/04/18

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 303845 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528398235001

Name : 3PAHSIM
Cal Date : 03-OCT-2018

ICV 528398235011 (vj311 03-OCT-2018) stds: S38459

Analyte	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.000	0.9540	ug/mL	-5	30	
Acenaphthylene	1.000	1.012	ug/mL	1	30	
Acenaphthene	1.000	0.9431	ug/mL	-6	20	
Fluorene	1.000	0.9929	ug/mL	-1	30	
Phenanthrene	1.000	0.9616	ug/mL	-4	30	
Anthracene	1.000	0.9619	ug/mL	-4	30	
Fluoranthene	1.000	0.9621	ug/mL	-4	20	
Pyrene	1.000	0.9669	ug/mL	-3	30	
Benzo(a)anthracene	1.000	0.9756	ug/mL	-2	30	
Chrysene	1.000	0.9466	ug/mL	-5	30	
Benzo(b)fluoranthene	1.000	0.9604	ug/mL	-4	30	
Benzo(k)fluoranthene	1.000	0.9338	ug/mL	-7	30	
Benzo(a)pyrene	1.000	1.003	ug/mL	0	20	
Indeno(1,2,3-cd)pyrene	1.000	0.9865	ug/mL	-1	30	
Dibenz(a,h)anthracene	1.000	0.9838	ug/mL	-2	30	
Benzo(g,h,i)perylene	1.000	1.041	ug/mL	4	30	

Analyst: YW1

Date: 10/04/18

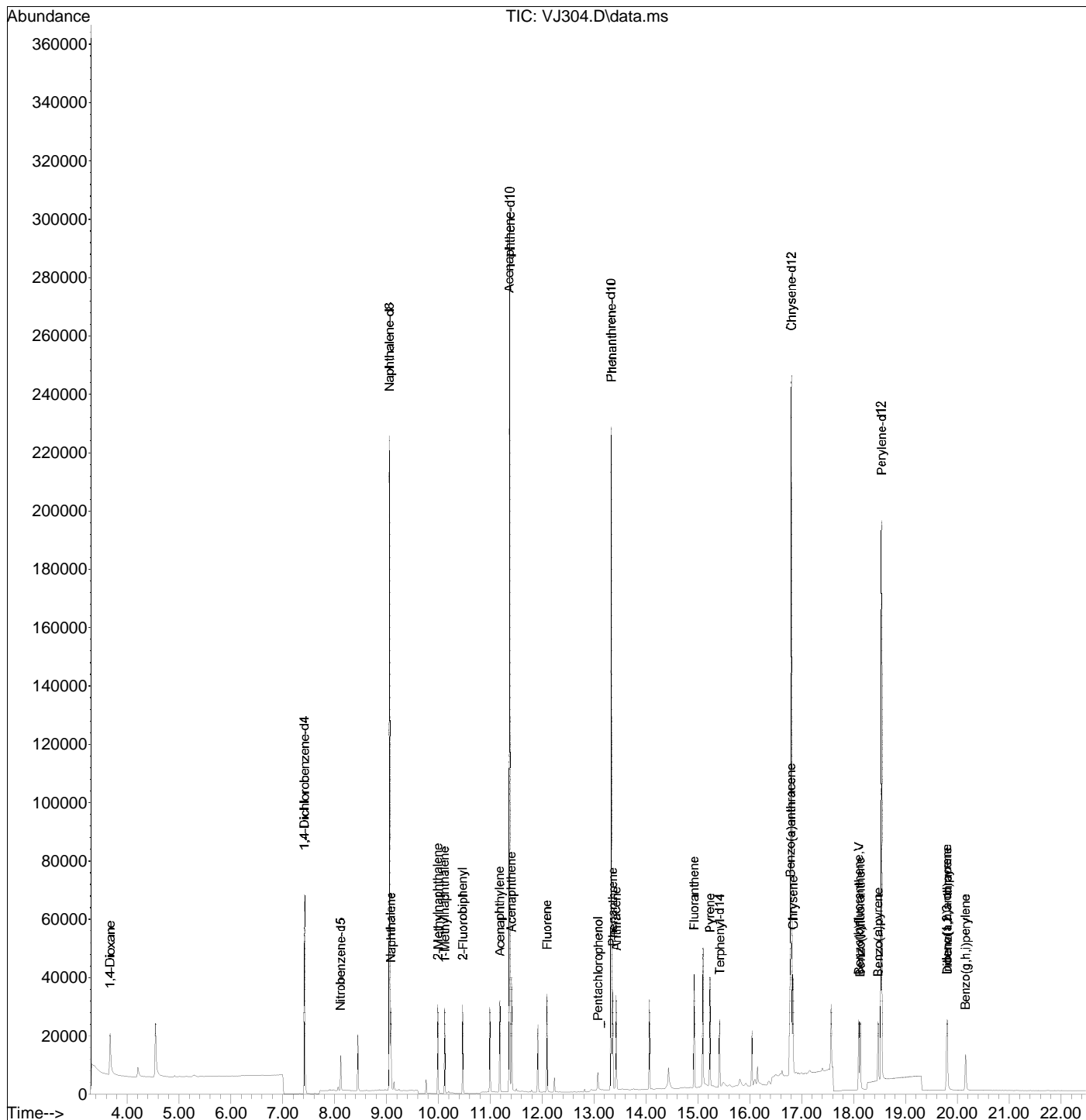
Reviewer: LW

Date: 10/04/18

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ304.D
 Acq On : 3 Oct 2018 6:23 pm
 Operator :
 Sample : ICAL,s38009
 Misc : ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 04 09:21:18 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ304.D
 Acq On : 3 Oct 2018 6:23 pm
 Operator :
 Sample : ICAL,s38009
 Misc : ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 04 09:21:18 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.417	152	50810	1.0000	ug/mL	-0.06
3) Naphthalene-d8	9.055	136	189071	1.0000	ug/mL	-0.06
8) Acenaphthene-d10	11.370	164	114167	1.0000	ug/mL	-0.06
13) Phenanthrene-d10	13.329	188	210458	1.0000	ug/mL	-0.06
18) Chrysene-d12	16.796	240	186475	1.0000	ug/mL	-0.07
23) Perylene-d12	18.531	264	152330	1.0000	ug/mL	-0.07

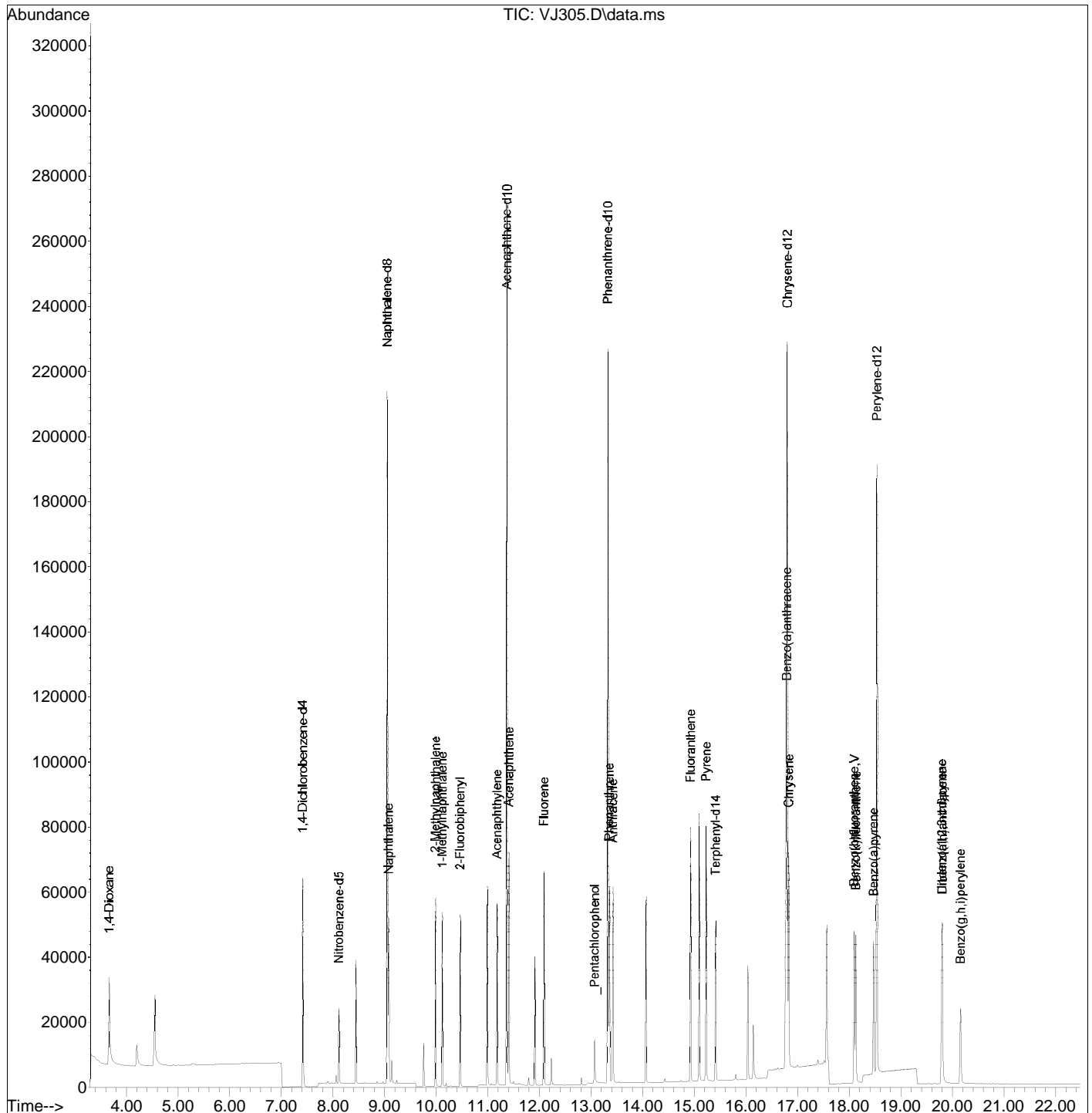
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.674	88	11883m	0.5720	ug/mL	
4) Nitrobenzene-d5	8.115	82	5543	0.1297	ug/mL	85
5) Naphthalene	9.083	128	20505	0.1084	ug/mL	99
6) 2-Methylnaphthalene	9.991	142	15863	0.1114	ug/mL	91
7) 1-Methylnaphthalene	10.122	142	14707	0.1127	ug/mL	94
9) 2-Fluorobiphenyl	10.467	172	20632	0.1079	ug/mL	95
10) Acenaphthylene	11.182	152	21591	0.1141	ug/mL	98
11) Acenaphthene	11.410	154	13082	0.1061	ug/mL	97
12) Fluorene	12.091	166	16727	0.1120	ug/mL	96
14) _Pentachlorophenol	13.074	266	3389m	2.2616	ug/mL	
15) Phenanthrene	13.358	178	23482	0.1074	ug/mL	98
16) Anthracene	13.424	178	23030	0.1161	ug/mL	98
17) Fluoranthene	14.925	202	28164	0.1123	ug/mL	98
19) Pyrene	15.233	202	28667	0.1140	ug/mL	99
20) Terphenyl-d14	15.419	244	22575	0.1107	ug/mL	89
21) Benzo(a)anthracene	16.781	228	24974	0.1088	ug/mL	97
22) Chrysene	16.830	228	23648	0.1059	ug/mL	95
24) Benzo(b)fluoranthene	18.097	252	20571	0.1061	ug/mL	93
25) Benzo(k)fluoranthene	18.127	252	20301	0.0941	ug/mL	93
26) Benzo(a)pyrene	18.471	252	17760	0.1052	ug/mL	94
27) Indeno(1,2,3-cd)pyrene	19.797	276	16409	0.0828	ug/mL	# 38
28) Dibenz(a,h)anthracene	19.801	278	12980	0.0793	ug/mL	# 83
29) Benzo(g,h,i)perylene	20.157	276	13399	0.0860	ug/mL	# 89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ305.D
 Acq On : 3 Oct 2018 6:55 pm
 Operator :
 Sample : ICAL,s38010
 Misc : ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 09:22:33 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ305.D
 Acq On : 3 Oct 2018 6:55 pm
 Operator :
 Sample : ICAL,s38010
 Misc : ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 09:22:33 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.413	152	47054	1.0000	ug/mL	-0.07
3) Naphthalene-d8	9.052	136	178174	1.0000	ug/mL	-0.06
8) Acenaphthene-d10	11.369	164	105435	1.0000	ug/mL	-0.06
13) Phenanthrene-d10	13.323	188	198451	1.0000	ug/mL	-0.07
18) Chrysene-d12	16.796	240	176985	1.0000	ug/mL	-0.07
23) Perylene-d12	18.531	264	146784	1.0000	ug/mL	-0.07

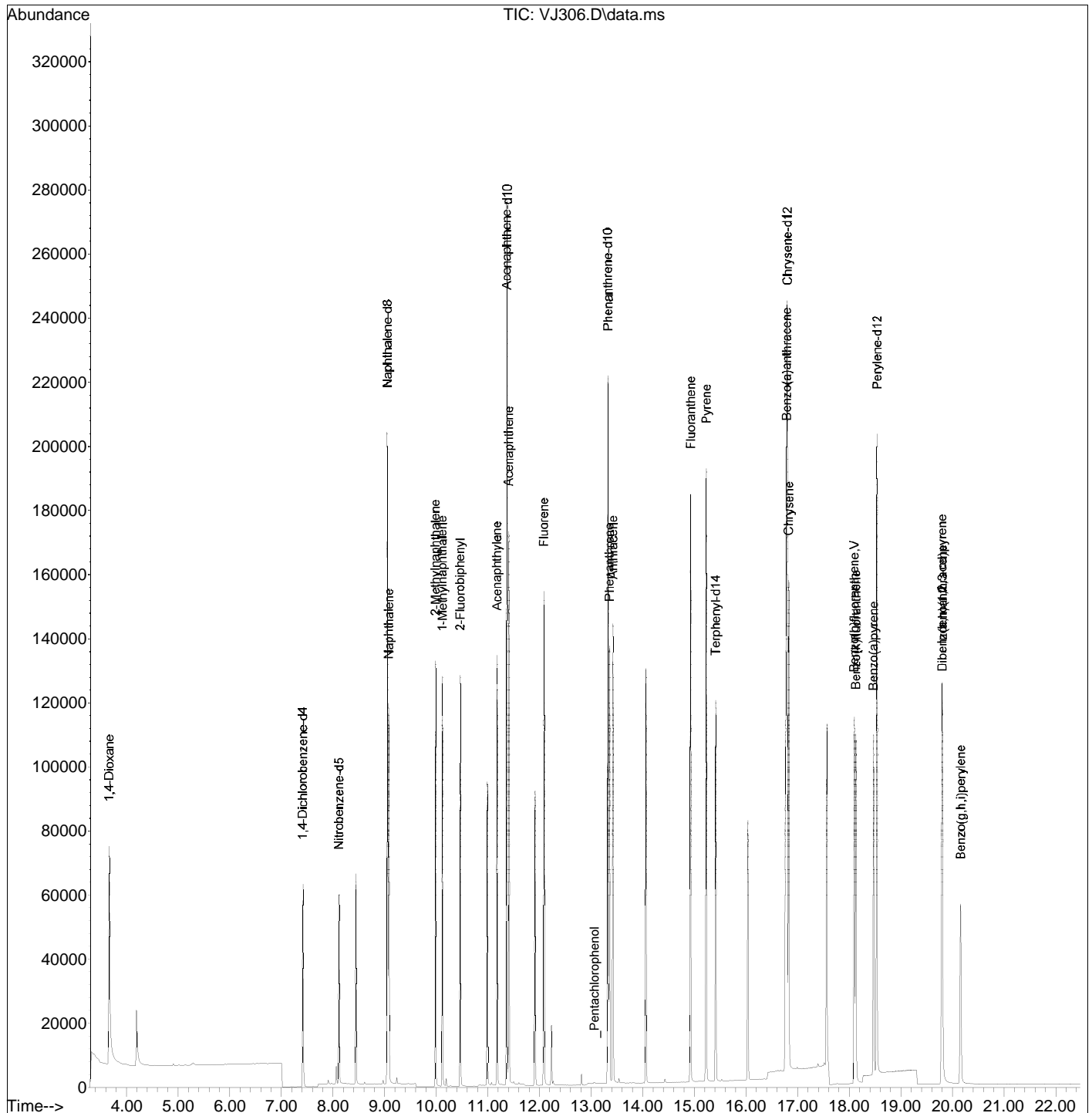
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.662	88	21938m	1.1403	ug/mL	
4) Nitrobenzene-d5	8.115	82	10876	0.2701	ug/mL	80
5) Naphthalene	9.080	128	38350	0.2152	ug/mL	98
6) 2-Methylnaphthalene	9.987	142	29491	0.2198	ug/mL	92
7) 1-Methylnaphthalene	10.118	142	26731	0.2173	ug/mL	100
9) 2-Fluorobiphenyl	10.463	172	38167	0.2162	ug/mL	94
10) Acenaphthylene	11.177	152	39978	0.2287	ug/mL	97
11) Acenaphthene	11.409	154	24757	0.2174	ug/mL	93
12) Fluorene	12.084	166	30858	0.2237	ug/mL	95
14) _Pentachlorophenol	13.068	266	6679	4.7268	ug/mL	99
15) Phenanthrene	13.352	178	44678	0.2167	ug/mL	99
16) Anthracene	13.423	178	43220	0.2311	ug/mL	98
17) Fluoranthene	14.925	202	53171	0.2248	ug/mL	98
19) Pyrene	15.226	202	53089	0.2225	ug/mL	100
20) Terphenyl-d14	15.412	244	42426	0.2192	ug/mL	87
21) Benzo(a)anthracene	16.781	228	48244	0.2215	ug/mL	97
22) Chrysene	16.826	228	45495	0.2147	ug/mL	96
24) Benzo(b)fluoranthene	18.094	252	39562	0.2117	ug/mL	96
25) Benzo(k)fluoranthene	18.127	252	38805	0.1866	ug/mL	95
26) Benzo(a)pyrene	18.470	252	35040	0.2155	ug/mL	99
27) Indeno(1,2,3-cd)pyrene	19.791	276	33191	0.1737	ug/mL	# 42
28) Dibenz(a,h)anthracene	19.801	278	25656	0.1626	ug/mL	87
29) Benzo(g,h,i)perylene	20.154	276	26623	0.1773	ug/mL	# 90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ306.D
 Acq On : 3 Oct 2018 7:27 pm
 Operator :
 Sample : ICAL,s38011
 Misc : ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 04 09:23:23 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ306.D
 Acq On : 3 Oct 2018 7:27 pm
 Operator :
 Sample : ICAL,s38011
 Misc : ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 04 09:23:23 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.414	152	45834	1.0000	ug/mL	-0.07
3) Naphthalene-d8	9.052	136	172734	1.0000	ug/mL	-0.06
8) Acenaphthene-d10	11.365	164	102429	1.0000	ug/mL	-0.07
13) Phenanthrene-d10	13.322	188	194339	1.0000	ug/mL	-0.07
18) Chrysene-d12	16.795	240	171538	1.0000	ug/mL	-0.07
23) Perylene-d12	18.530	264	146428	1.0000	ug/mL	-0.07

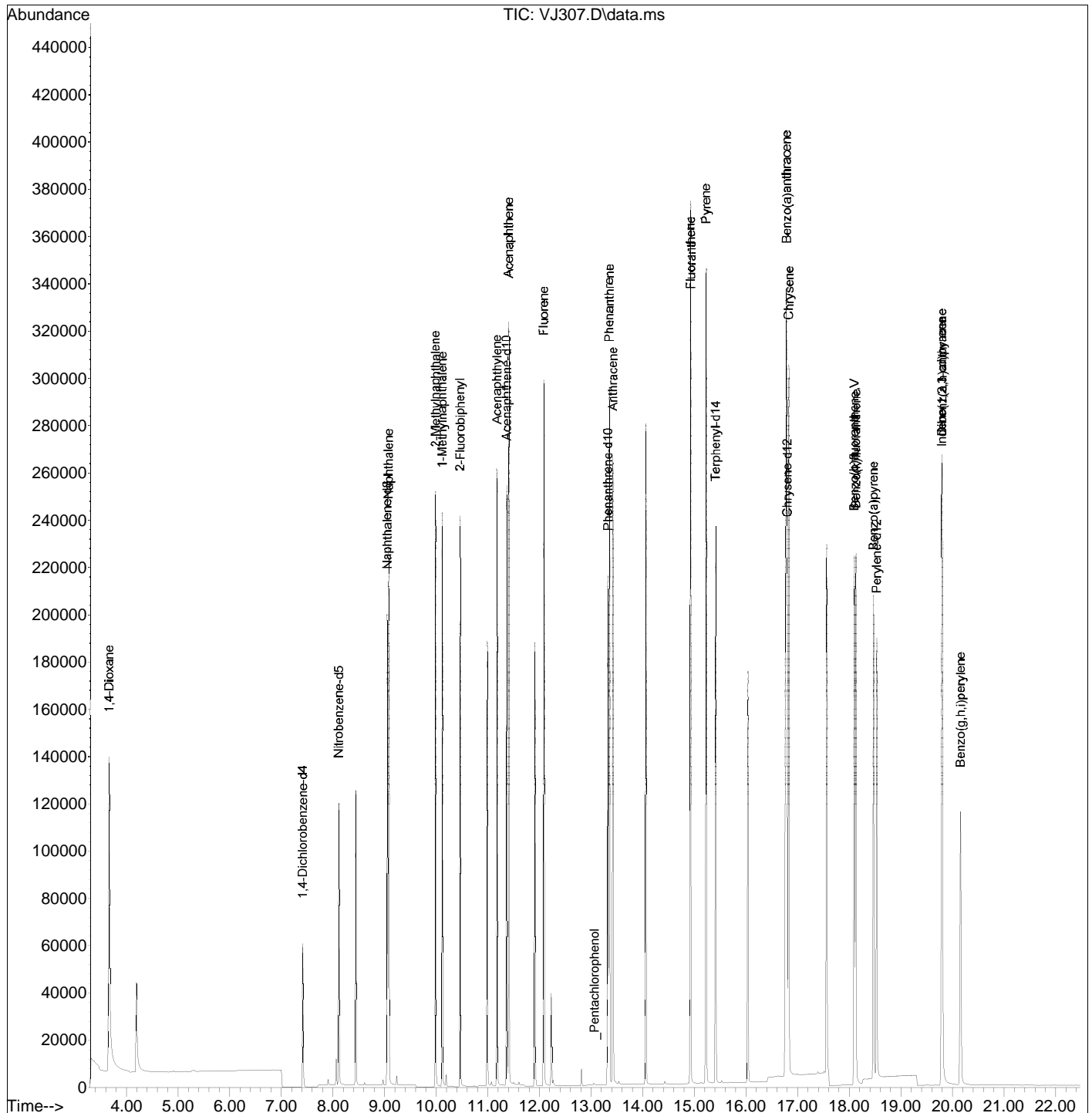
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.664	88	53332m	2.8460	ug/mL	
4) Nitrobenzene-d5	8.115	82	27467	0.7036	ug/mL	80
5) Naphthalene	9.080	128	91802	0.5314	ug/mL	98
6) 2-Methylnaphthalene	9.986	142	69968	0.5378	ug/mL	92
7) 1-Methylnaphthalene	10.118	142	63432	0.5319	ug/mL	99
9) 2-Fluorobiphenyl	10.463	172	89045	0.5191	ug/mL	95
10) Acenaphthylene	11.178	152	96542	0.5684	ug/mL	98
11) Acenaphthene	11.405	154	58861	0.5321	ug/mL	98
12) Fluorene	12.084	166	73638	0.5494	ug/mL	99
14) _Pentachlorophenol	13.067	266	199	0.1438	ug/mL	# 79
15) Phenanthrene	13.352	178	104466	0.5175	ug/mL	99
16) Anthracene	13.423	178	104001	0.5679	ug/mL	97
17) Fluoranthene	14.924	202	124825	0.5390	ug/mL	98
19) Pyrene	15.225	202	126179	0.5455	ug/mL	100
20) Terphenyl-d14	15.411	244	101716	0.5423	ug/mL	88
21) Benzo(a)anthracene	16.780	228	113155	0.5360	ug/mL	97
22) Chrysene	16.825	228	111063	0.5408	ug/mL	96
24) Benzo(b)fluoranthene	18.095	252	96833	0.5194	ug/mL	97
25) Benzo(k)fluoranthene	18.124	252	102769	0.4954	ug/mL	97
26) Benzo(a)pyrene	18.467	252	85709	0.5284	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.794	276	81111	0.4256	ug/mL	# 43
28) Dibenz(a,h)anthracene	19.800	278	64229	0.4081	ug/mL	89
29) Benzo(g,h,i)perylene	20.157	276	63394	0.4233	ug/mL	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ307.D
 Acq On : 3 Oct 2018 8:00 pm
 Operator :
 Sample : ICAL,s38012
 Misc : ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 09:24:17 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ307.D
 Acq On : 3 Oct 2018 8:00 pm
 Operator :
 Sample : ICAL,s38012
 Misc : ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 09:24:17 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.414	152	44793	1.0000	ug/mL	-0.07
3) Naphthalene-d8	9.052	136	166962	1.0000	ug/mL	-0.06
8) Acenaphthene-d10	11.364	164	100289	1.0000	ug/mL	-0.07
13) Phenanthrene-d10	13.324	188	188589	1.0000	ug/mL	-0.07
18) Chrysene-d12	16.796	240	165922	1.0000	ug/mL	-0.07
23) Perylene-d12	18.530	264	143099	1.0000	ug/mL	-0.07

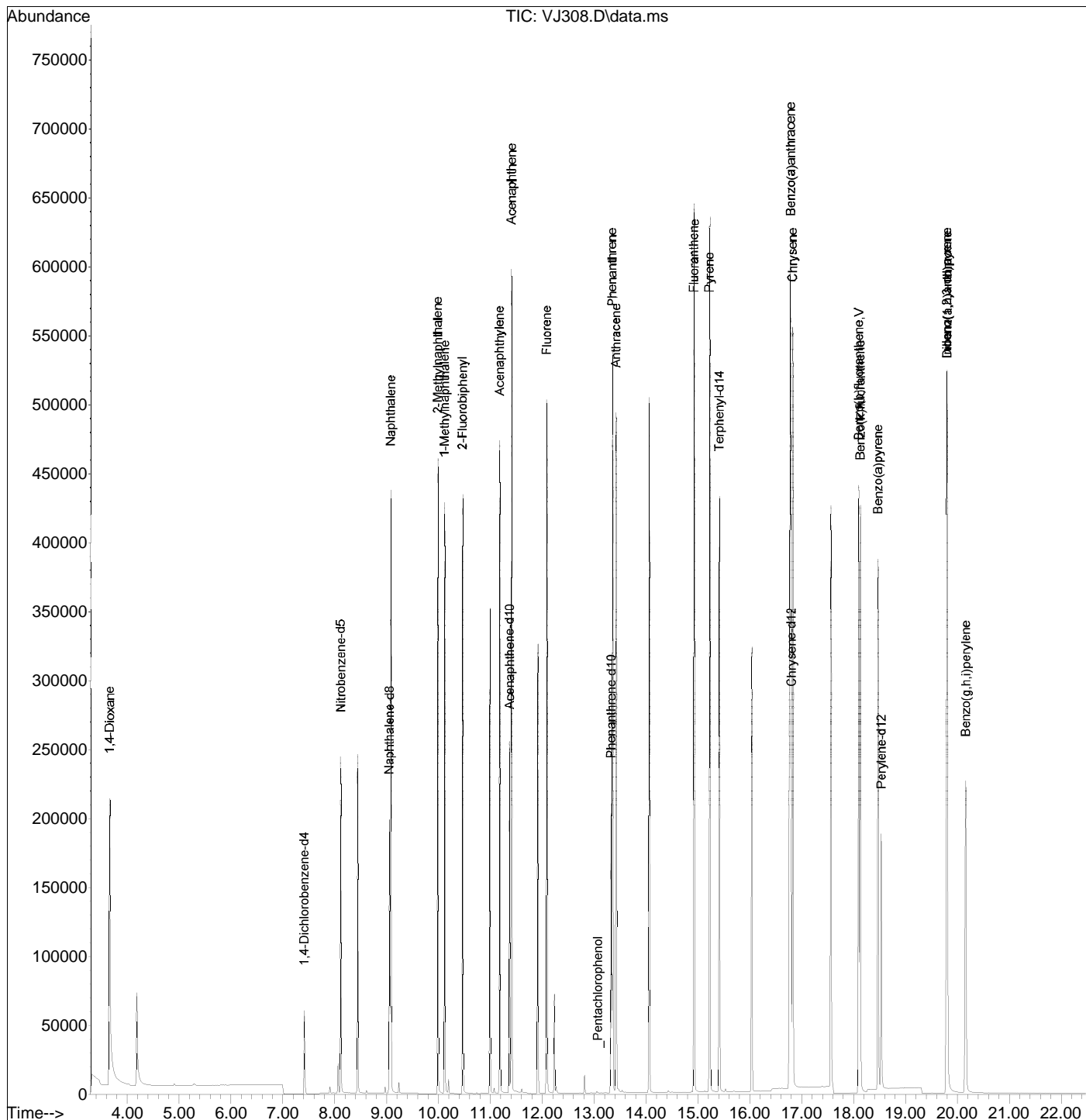
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.662	88	108598m	5.9298	ug/mL	
4) Nitrobenzene-d5	8.112	82	55515	1.4711	ug/mL	84
5) Naphthalene	9.080	128	178285	1.0678	ug/mL	98
6) 2-Methylnaphthalene	9.986	142	132781	1.0560	ug/mL	94
7) 1-Methylnaphthalene	10.118	142	121647	1.0554	ug/mL	99
9) 2-Fluorobiphenyl	10.463	172	171715	1.0225	ug/mL	95
10) Acenaphthylene	11.177	152	186266	1.1201	ug/mL	97
11) Acenaphthene	11.409	154	115796	1.0691	ug/mL	92
12) Fluorene	12.085	166	141328	1.0769	ug/mL	98
14) _Pentachlorophenol	13.069	266	122	0.0909	ug/mL	85
15) Phenanthrene	13.353	178	205730	1.0502	ug/mL	99
16) Anthracene	13.418	178	204043	1.1482	ug/mL	99
17) Fluoranthene	14.925	202	243667	1.0842	ug/mL	96
19) Pyrene	15.226	202	241533	1.0796	ug/mL	99
20) Terphenyl-d14	15.412	244	197794	1.0902	ug/mL	88
21) Benzo(a)anthracene	16.781	228	224177	1.0978	ug/mL	96
22) Chrysene	16.825	228	215130	1.0830	ug/mL	96
24) Benzo(b)fluoranthene	18.094	252	192687	1.0577	ug/mL	98
25) Benzo(k)fluoranthene	18.127	252	208391	1.0280	ug/mL	95
26) Benzo(a)pyrene	18.467	252	173052	1.0917	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.790	276	166195	0.8923	ug/mL	# 44
28) Dibenz(a,h)anthracene	19.797	278	134000	0.8712	ug/mL	89
29) Benzo(g,h,i)perylene	20.154	276	129489	0.8847	ug/mL	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ308.D
 Acq On : 3 Oct 2018 8:32 pm
 Operator :
 Sample : ICAL,s38013
 Misc : ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 09:25:06 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ308.D
 Acq On : 3 Oct 2018 8:32 pm
 Operator :
 Sample : ICAL,s38013
 Misc : ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 09:25:06 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.413	152	44446	1.0000	ug/mL	-0.07
3) Naphthalene-d8	9.053	136	165027	1.0000	ug/mL	-0.06
8) Acenaphthene-d10	11.369	164	97741	1.0000	ug/mL	-0.06
13) Phenanthrene-d10	13.324	188	183076	1.0000	ug/mL	-0.06
18) Chrysene-d12	16.795	240	161751	1.0000	ug/mL	-0.07
23) Perylene-d12	18.530	264	140306	1.0000	ug/mL	-0.07

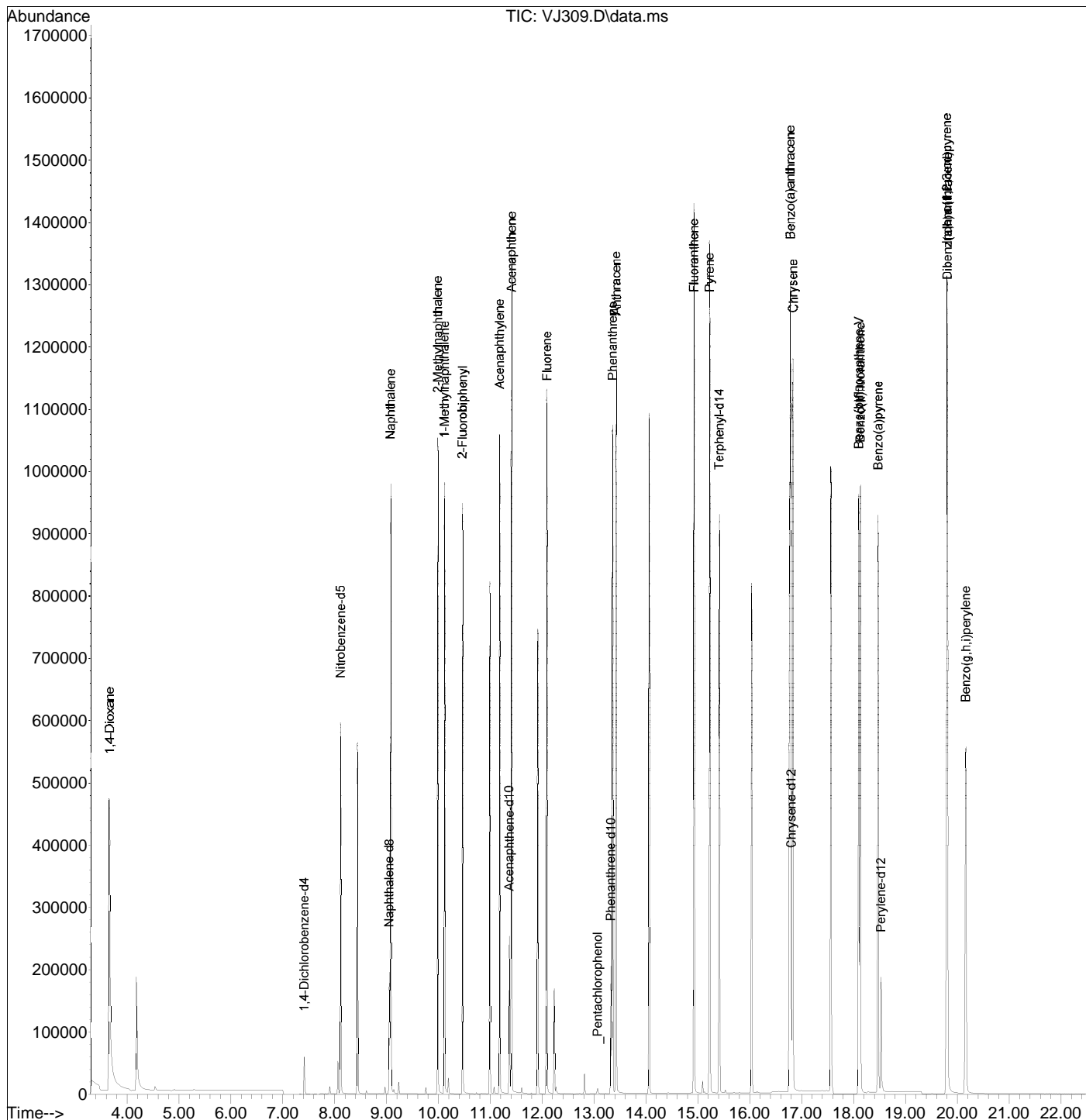
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.664	88	200182m	11.0159	ug/mL	
4) Nitrobenzene-d5	8.113	82	109293	2.9302	ug/mL	83
5) Naphthalene	9.081	128	331730	2.0101	ug/mL	97
6) 2-Methylnaphthalene	9.987	142	247793	1.9937	ug/mL	92
7) 1-Methylnaphthalene	10.118	142	227328	1.9954	ug/mL	99
9) 2-Fluorobiphenyl	10.464	172	313863	1.9176	ug/mL	93
10) Acenaphthylene	11.177	152	343272	2.1180	ug/mL	97
11) Acenaphthene	11.409	154	216120	2.0473	ug/mL	91
12) Fluorene	12.084	166	265066	2.0725	ug/mL	97
14) _Pentachlorophenol	13.070	266	112	0.0859	ug/mL	# 76
15) Phenanthrene	13.354	178	383193	2.0150	ug/mL	98
16) Anthracene	13.419	178	379615	2.2005	ug/mL	98
17) Fluoranthene	14.923	202	458665	2.1023	ug/mL	95
19) Pyrene	15.224	202	444786	2.0394	ug/mL	98
20) Terphenyl-d14	15.410	244	371003	2.0976	ug/mL	87
21) Benzo(a)anthracene	16.780	228	417132	2.0953	ug/mL	97
22) Chrysene	16.824	228	402038	2.0760	ug/mL	97
24) Benzo(b)fluoranthene	18.094	252	366984	2.0545	ug/mL	96
25) Benzo(k)fluoranthene	18.127	252	353949	1.7808	ug/mL	94
26) Benzo(a)pyrene	18.467	252	331687	2.1341	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.793	276	325101	1.7802	ug/mL	# 42
28) Dibenz(a,h)anthracene	19.800	278	263742	1.7489	ug/mL	89
29) Benzo(g,h,i)perylene	20.156	276	251145	1.7500	ug/mL	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ309.D
 Acq On : 3 Oct 2018 9:05 pm
 Operator :
 Sample : ICAL,s38014
 Misc : ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 03 21:28:05 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ309.D
 Acq On : 3 Oct 2018 9:05 pm
 Operator :
 Sample : ICAL,s38014
 Misc : ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 03 21:28:05 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.414	152	44403	1.0000	ug/mL	-0.07
3) Naphthalene-d8	9.052	136	161737	1.0000	ug/mL	-0.06
8) Acenaphthene-d10	11.366	164	96285	1.0000	ug/mL	-0.07
13) Phenanthrene-d10	13.323	188	175409	1.0000	ug/mL	-0.07
18) Chrysene-d12	16.796	240	154711	1.0000	ug/mL	-0.07
23) Perylene-d12	18.530	264	135523	1.0000	ug/mL	-0.07

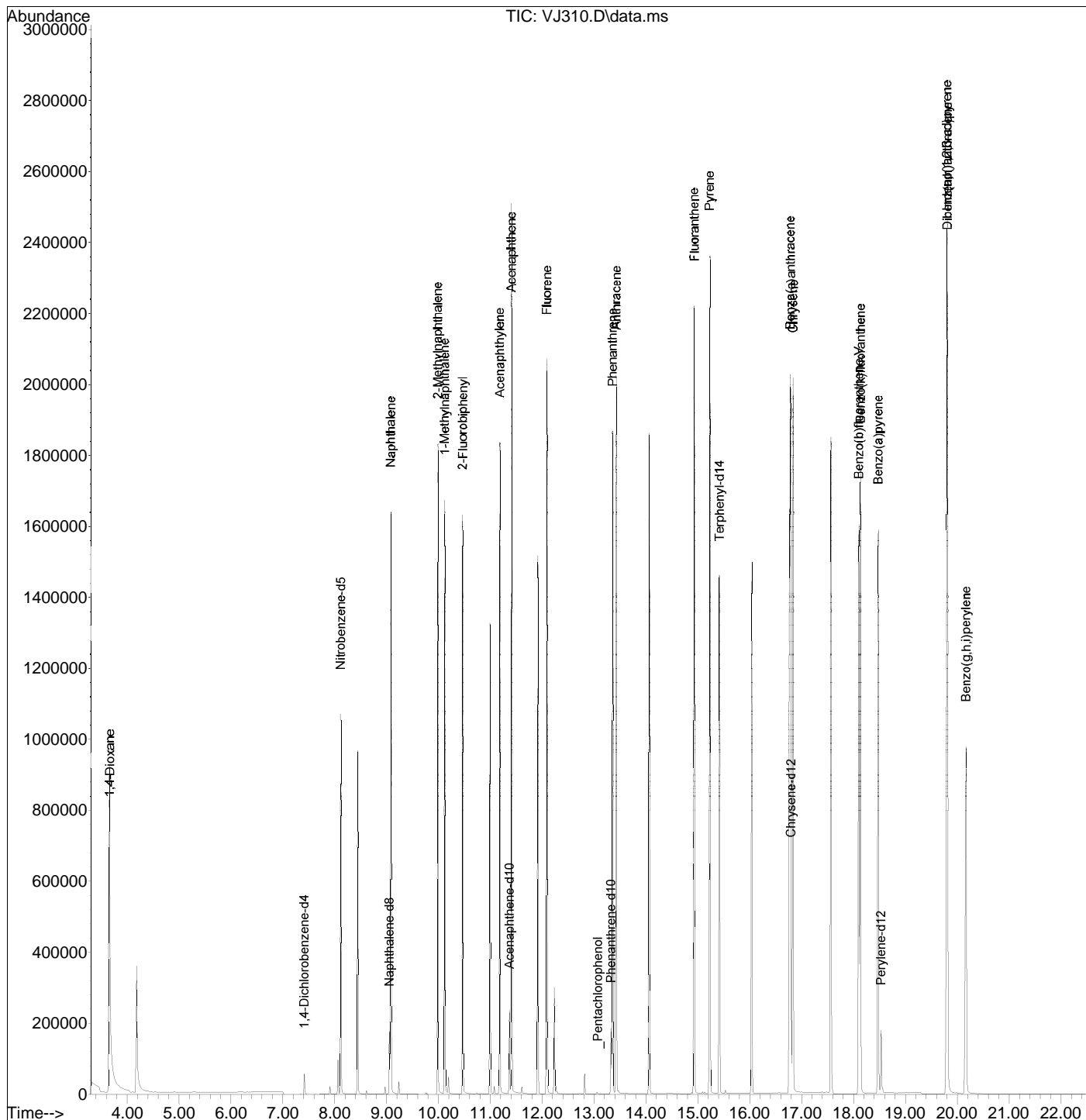
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.662	88	506044	27.8743	ug/mL	91
4) Nitrobenzene-d5	8.116	82	267436	7.3160	ug/mL	79
5) Naphthalene	9.080	128	750509	4.6402	ug/mL	94
6) 2-Methylnaphthalene	9.987	142	561650	4.6110	ug/mL	94
7) 1-Methylnaphthalene	10.118	142	518395	4.6428	ug/mL	96
9) 2-Fluorobiphenyl	10.464	172	696827	4.3218	ug/mL	90
10) Acenaphthylene	11.178	152	782647	4.9020	ug/mL	94
11) Acenaphthene	11.410	154	498199	4.7908	ug/mL	89
12) Fluorene	12.091	166	598998	4.7543	ug/mL	90
14) _Pentachlorophenol	13.069	266	4016	3.2155	ug/mL	97
15) Phenanthrene	13.353	178	844531	4.6351	ug/mL	95
16) Anthracene	13.424	178	832940	5.0394	ug/mL	96
17) Fluoranthene	14.925	202	987297	4.7232	ug/mL	92
19) Pyrene	15.226	202	996517	4.7770	ug/mL	95
20) Terphenyl-d14	15.411	244	822293	4.8606	ug/mL	87
21) Benzo(a)anthracene	16.781	228	921645	4.8402	ug/mL	97
22) Chrysene	16.831	228	875885	4.7287	ug/mL	95
24) Benzo(b)fluoranthene	18.097	252	833433	4.8305	ug/mL	91
25) Benzo(k)fluoranthene	18.127	252	854440	4.4505	ug/mL	93
26) Benzo(a)pyrene	18.470	252	760956	5.0688	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.798	276	783413	4.4412	ug/mL	# 39
28) Dibenz(a,h)anthracene	19.804	278	652812	4.4816	ug/mL	85
29) Benzo(g,h,i)perylene	20.161	276	607572	4.3830	ug/mL	# 88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ310.D
 Acq On : 3 Oct 2018 9:38 pm
 Operator :
 Sample : ICAL,s38015
 Misc : ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 03 22:01:03 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ310.D
 Acq On : 3 Oct 2018 9:38 pm
 Operator :
 Sample : ICAL,s38015
 Misc : ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 03 22:01:03 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Sep 20 17:07:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.414	152	43321	1.0000	ug/mL	-0.07
3) Naphthalene-d8	9.052	136	156637	1.0000	ug/mL	-0.06
8) Acenaphthene-d10	11.369	164	93014	1.0000	ug/mL	-0.06
13) Phenanthrene-d10	13.324	188	163168	1.0000	ug/mL	-0.06
18) Chrysene-d12	16.795	240	144410	1.0000	ug/mL	-0.07
23) Perylene-d12	18.531	264	125722	1.0000	ug/mL	-0.07

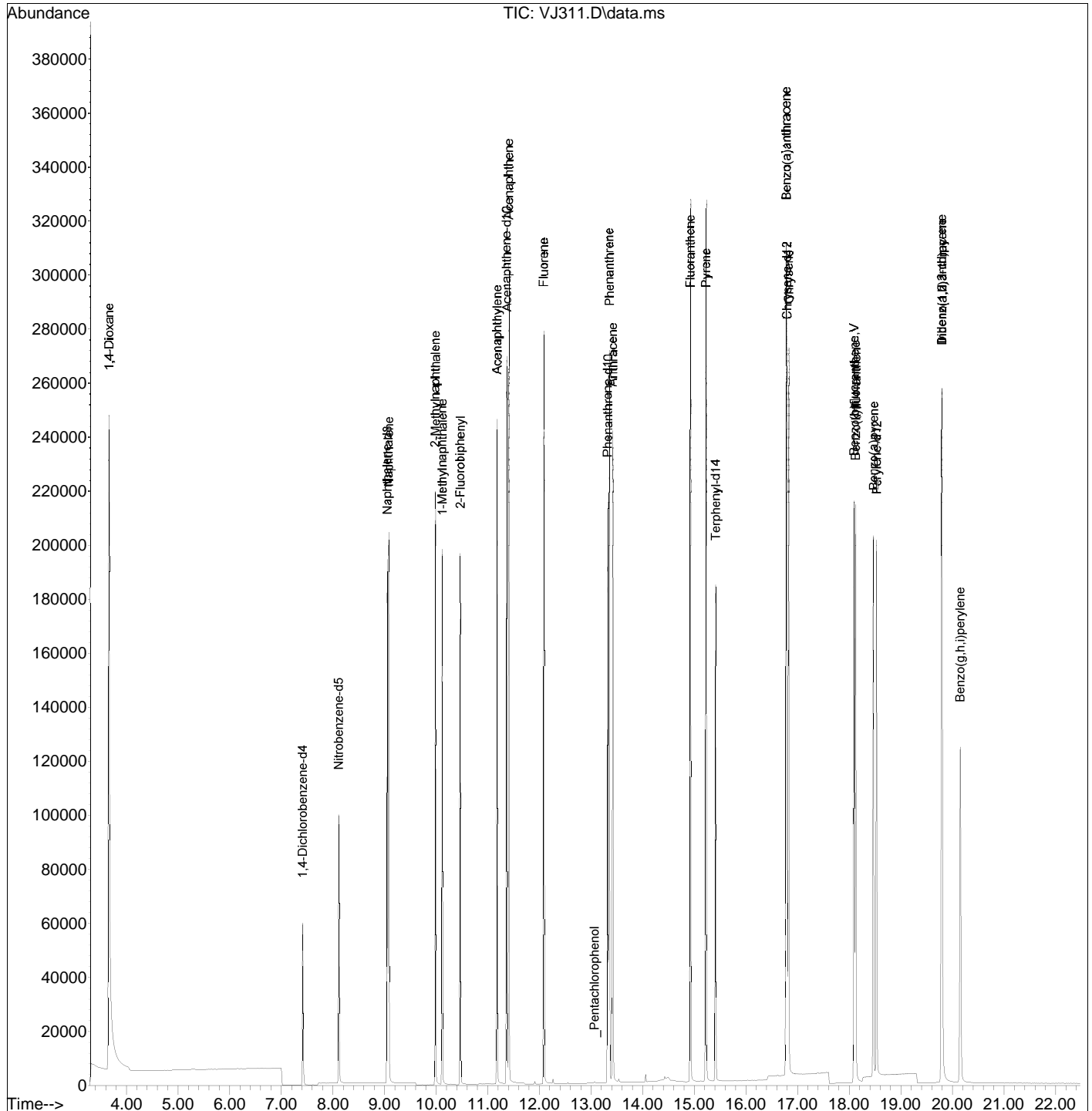
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.663	88	913927	51.5990	ug/mL	92
4) Nitrobenzene-d5	8.116	82	500351	14.1333	ug/mL	83
5) Naphthalene	9.080	128	1303604	8.3222	ug/mL	91
6) 2-Methylnaphthalene	9.987	142	986196	8.3600	ug/mL	95
7) 1-Methylnaphthalene	10.118	142	906698	8.3849	ug/mL	100
9) 2-Fluorobiphenyl	10.468	172	1203989	7.7298	ug/mL	94
10) Acenaphthylene	11.182	152	1348726	8.7446	ug/mL	91
11) Acenaphthene	11.410	154	875477	8.7149	ug/mL	92
12) Fluorene	12.090	166	1030039	8.4630	ug/mL	95
14) _Pentachlorophenol	13.069	266	1066	0.9176	ug/mL	93
15) Phenanthrene	13.354	178	1408865	8.3124	ug/mL	92
16) Anthracene	13.425	178	1395201	9.0744	ug/mL	92
17) Fluoranthene	14.930	202	1691399	8.6986	ug/mL	87
19) Pyrene	15.231	202	1659384	8.5221	ug/mL	92
20) Terphenyl-d14	15.417	244	1399537	8.8628	ug/mL	90
21) Benzo(a)anthracene	16.780	228	1547226	8.7052	ug/mL	95
22) Chrysene	16.830	228	1450076	8.3871	ug/mL	97
24) Benzo(b)fluoranthene	18.101	252	1424002	8.8968	ug/mL	87
25) Benzo(k)fluoranthene	18.130	252	1456845	8.1799	ug/mL	86
26) Benzo(a)pyrene	18.474	252	1321597	9.4896	ug/mL	91
27) Indeno(1,2,3-cd)pyrene	19.799	276	1410461	8.6194	ug/mL	# 32
28) Dibenz(a,h)anthracene	19.806	278	1201488	8.8912	ug/mL	81
29) Benzo(g,h,i)perylene	20.166	276	1093680	8.5049	ug/mL	# 85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ311.D
 Acq On : 3 Oct 2018 10:10 pm
 Operator :
 Sample : ICv,s38459
 Misc : icv
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:38:22 2018
 Quant Method : G:\msbna03\100318\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Oct 04 09:32:01 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\100318\
 Data File : VJ311.D
 Acq On : 3 Oct 2018 10:10 pm
 Operator :
 Sample : ICv,s38459
 Misc : icv
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:38:22 2018
 Quant Method : G:\msbna03\100318\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Oct 04 09:32:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.414	152	44376	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.052	136	166638	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.365	164	98700	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.323	188	188978	1.0000	ug/mL	0.00
18) Chrysene-d12	16.791	240	169521	1.0000	ug/mL	0.00
23) Perylene-d12	18.528	264	146516	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.662	88	213364m	10.4768	ug/mL	
4) Nitrobenzene-d5	8.112	82	46246	0.8711	ug/mL	84
5) Naphthalene	9.080	128	160270	0.9540	ug/mL	98
6) 2-Methylnaphthalene	9.983	142	117380	0.9222	ug/mL	100
7) 1-Methylnaphthalene	10.118	142	105090	0.9010	ug/mL	94
9) 2-Fluorobiphenyl	10.464	172	139273	0.8653	ug/mL	98
10) Acenaphthylene	11.178	152	176425	1.0122	ug/mL	98
11) Acenaphthene	11.406	154	102462	0.9431	ug/mL	95
12) Fluorene	12.085	166	132763	0.9929	ug/mL	97
14) _Pentachlorophenol	13.068	266	215m	0.1135	ug/mL	
15) Phenanthrene	13.353	178	189008	0.9616	ug/mL	98
16) Anthracene	13.418	178	186381	0.9619	ug/mL	99
17) Fluoranthene	14.925	202	225183	0.9621	ug/mL	97
19) Pyrene	15.226	202	228907	0.9669	ug/mL	100
20) Terphenyl-d14	15.412	244	160021	0.8295	ug/mL	89
21) Benzo(a)anthracene	16.776	228	210854	0.9756	ug/mL	98
22) Chrysene	16.826	228	195409	0.9466	ug/mL	95
24) Benzo(b)fluoranthene	18.094	252	181670	0.9604	ug/mL	95
25) Benzo(k)fluoranthene	18.124	252	179731	0.9338	ug/mL	96
26) Benzo(a)pyrene	18.465	252	169998	1.0032	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.791	276	163411	0.9865	ug/mL	# 45
28) Dibenz(a,h)anthracene	19.794	278	131754	0.9838	ug/mL	90
29) Benzo(g,h,i)perylene	20.151	276	135456	1.0407	ug/mL	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Continuing Calibration Verification Raw Data

ENTHALPY CONTINUING CALIBRATION FOR 303845 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528408101006 File : vja06 Time : 10-OCT-2018 12:00
 Cal : 528398235001 Caldate : 03-OCT-2018
 Standards: S38013

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0081	1.0447	2.000	2.073	ug/mL	4	30	0.0500	
Acenaphthylene	1.7659	1.8094	2.000	2.049	ug/mL	2	30	0.0500	
Acenaphthene	1.1008	1.1436	2.000	2.078	ug/mL	4	20	0.0500	
Fluorene	1.3547	1.3939	2.000	2.058	ug/mL	3	30	0.0500	
Phenanthrene	1.0400	1.0852	2.000	2.087	ug/mL	4	30	0.0500	
Anthracene	1.0253	1.0643	2.000	2.076	ug/mL	4	30	0.0500	
Fluoranthene	1.2385	1.2384	2.000	2.000	ug/mL	0	20	0.0500	
Pyrene	1.3966	1.5381	2.000	2.203	ug/mL	10	30	0.0500	
Benzo(a)anthracene	1.2750	1.3172	2.000	2.066	ug/mL	3	30	0.0500	
Chrysene	1.2177	1.2697	2.000	2.085	ug/mL	4	30	0.0500	
Benzo(b)fluoranthene	1.2911	1.3517	2.000	2.094	ug/mL	5	30	0.0500	
Benzo(k)fluoranthene	1.3137	1.3489	2.000	2.054	ug/mL	3	30	0.0500	
Benzo(a)pyrene	1.1565	1.2270	2.000	2.122	ug/mL	6	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1305	1.2655	2.000	2.239	ug/mL	12	30	0.0500	
Dibenz(a,h)anthracene	0.9141	1.0297	2.000	2.253	ug/mL	13	30	0.0500	
Benzo(g,h,i)perylene	0.8884	0.9711	2.000	2.186	ug/mL	9	30	0.0500	
Nitrobenzene-d5	0.3186	0.4315	2.000	2.709	ug/mL	35	30	0.0500	c+
2-Fluorobiphenyl	1.6308	1.5844	2.000	1.943	ug/mL	-3	30	0.0500	
Terphenyl-d14	1.1380	1.2005	2.000	2.110	ug/mL	5	30	0.0500	

VQ 10/10/18 [1,4-Dioxane]: Corrected automatically drawn baseline.

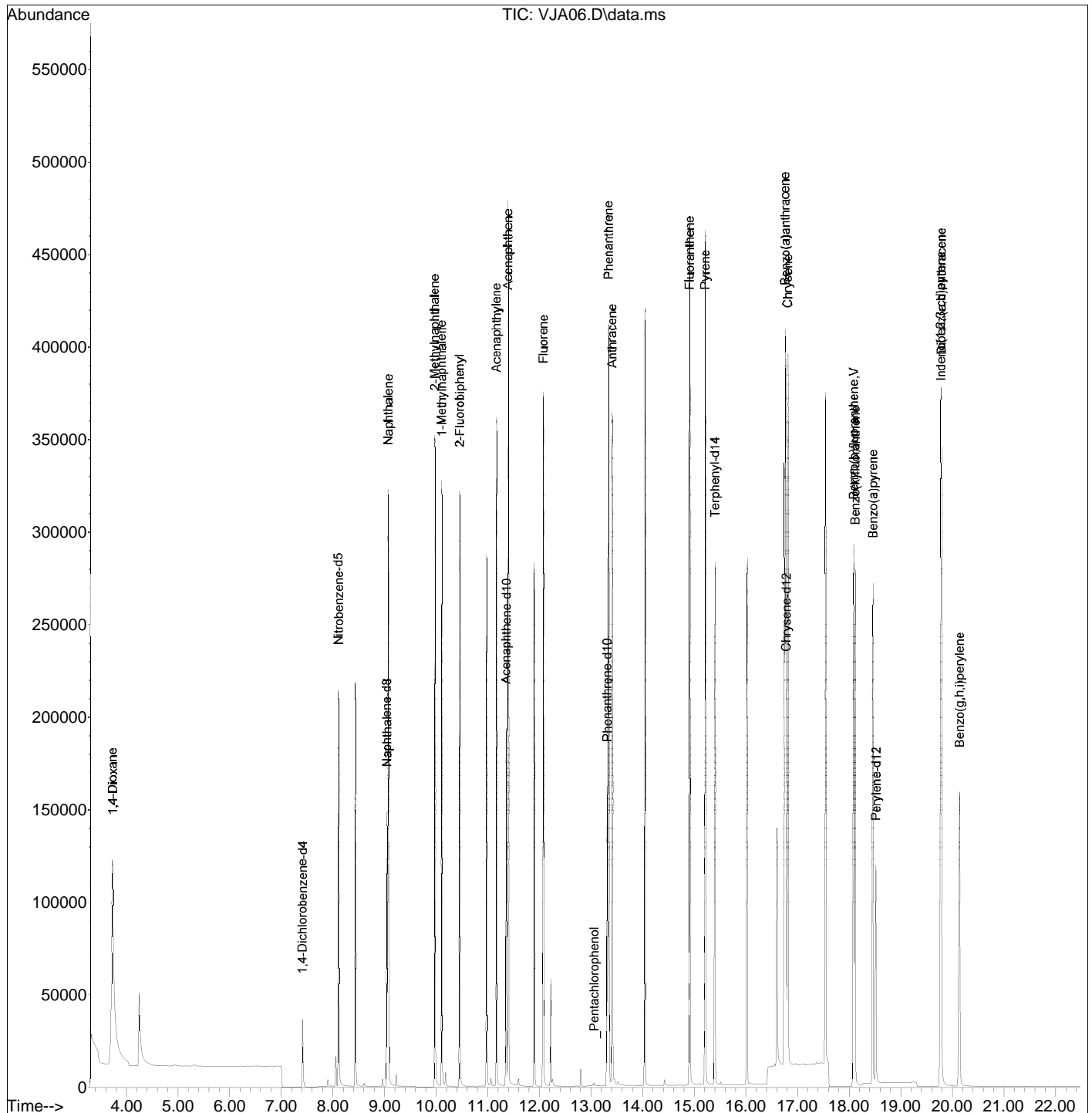
Analyst: VO Date: 10/10/18 Reviewer: LW Date: 10/10/18

+ = high bias c = CCV

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101018\
 Data File : VJA06.D
 Acq On : 10 Oct 2018 12:00 pm
 Operator :
 Sample : ccv,s38013
 Misc : ccv
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 10 15:03:31 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Oct 04 09:32:01 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101018\
 Data File : VJA06.D
 Acq On : 10 Oct 2018 12:00 pm
 Operator :
 Sample : ccv,s38013
 Misc : ccv
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 10 15:03:31 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Thu Oct 04 09:32:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.410	152	30669	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.044	136	120681	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.356	164	73056	1.0000	ug/mL	-0.01
13) Phenanthrene-d10	13.311	188	131399	1.0000	ug/mL	-0.01
18) Chrysene-d12	16.776	240	105489	1.0000	ug/mL	-0.02
23) Perylene-d12	18.515	264	87381	1.0000	ug/mL	-0.01

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.731	88	177913m	12.6405	ug/mL	
4) Nitrobenzene-d5	8.108	82	104142	2.7086	ug/mL	90
5) Naphthalene	9.072	128	252155	2.0726	ug/mL	96
6) 2-Methylnaphthalene	9.973	142	189693	2.0578	ug/mL	99
7) 1-Methylnaphthalene	10.109	142	173508	2.0540	ug/mL	97
9) 2-Fluorobiphenyl	10.454	172	231493	1.9431	ug/mL	95
10) Acenaphthylene	11.169	152	264371	2.0493	ug/mL	96
11) Acenaphthene	11.396	154	167097	2.0778	ug/mL	95
12) Fluorene	12.078	166	203670	2.0579	ug/mL	91
14) _Pentachlorophenol	13.062	266	833	0.6326	ug/mL	92
15) Phenanthrene	13.341	178	285182	2.0868	ug/mL	98
16) Anthracene	13.406	178	279696	2.0761	ug/mL	98
17) Fluoranthene	14.912	202	325437	1.9998	ug/mL	95
19) Pyrene	15.213	202	324500	2.2026	ug/mL	99
20) Terphenyl-d14	15.399	244	253285	2.1098	ug/mL	87
21) Benzo(a)anthracene	16.761	228	277910	2.0663	ug/mL	98
22) Chrysene	16.811	228	267879	2.0854	ug/mL	96
24) Benzo(b)fluoranthene	18.080	252	236232	2.0940	ug/mL	96
25) Benzo(k)fluoranthene	18.110	252	235736	2.0537	ug/mL	95
26) Benzo(a)pyrene	18.452	252	214427	2.1218	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.770	276	221157	2.2388	ug/mL	# 27
28) Dibenz(a,h)anthracene	19.777	278	179958	2.2530	ug/mL	88
29) Benzo(g,h,i)perylene	20.133	276	169715	2.1862	ug/mL	# 90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ENTHALPY CONTINUING CALIBRATION FOR 303845 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528418192004 File : vjh04 Time : 17-OCT-2018 10:55
 Cal : 528398235001 Caldate : 03-OCT-2018
 Standards: S38012

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0081	1.0952	1.000	1.086	ug/mL	9	30	0.0500	
Acenaphthylene	1.7659	1.8814	1.000	1.065	ug/mL	7	30	0.0500	
Acenaphthene	1.1008	1.2094	1.000	1.099	ug/mL	10	20	0.0500	
Fluorene	1.3547	1.4322	1.000	1.057	ug/mL	6	30	0.0500	
Phenanthrene	1.0400	1.1603	1.000	1.116	ug/mL	12	30	0.0500	
Anthracene	1.0253	1.1036	1.000	1.076	ug/mL	8	30	0.0500	
Fluoranthene	1.2385	1.2859	1.000	1.038	ug/mL	4	20	0.0500	
Pyrene	1.3966	1.6182	1.000	1.159	ug/mL	16	30	0.0500	
Benzo(a)anthracene	1.2750	1.3646	1.000	1.070	ug/mL	7	30	0.0500	
Chrysene	1.2177	1.2991	1.000	1.067	ug/mL	7	30	0.0500	
Benzo(b)fluoranthene	1.2911	1.3941	1.000	1.080	ug/mL	8	30	0.0500	
Benzo(k)fluoranthene	1.3137	1.3375	1.000	1.018	ug/mL	2	30	0.0500	
Benzo(a)pyrene	1.1565	1.2320	1.000	1.065	ug/mL	7	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1305	1.2632	1.000	1.117	ug/mL	12	30	0.0500	
Dibenz(a,h)anthracene	0.9141	0.9910	1.000	1.084	ug/mL	8	30	0.0500	
Benzo(g,h,i)perylene	0.8884	0.9802	1.000	1.103	ug/mL	10	30	0.0500	
Nitrobenzene-d5	0.3186	0.4442	1.000	1.394	ug/mL	39	30	0.0500	c+
2-Fluorobiphenyl	1.6308	1.6874	1.000	1.035	ug/mL	3	30	0.0500	
Terphenyl-d14	1.1380	1.2688	1.000	1.115	ug/mL	11	30	0.0500	

YW1 10/17/18 [1,4-Dioxane]: Corrected automatically drawn baseline.

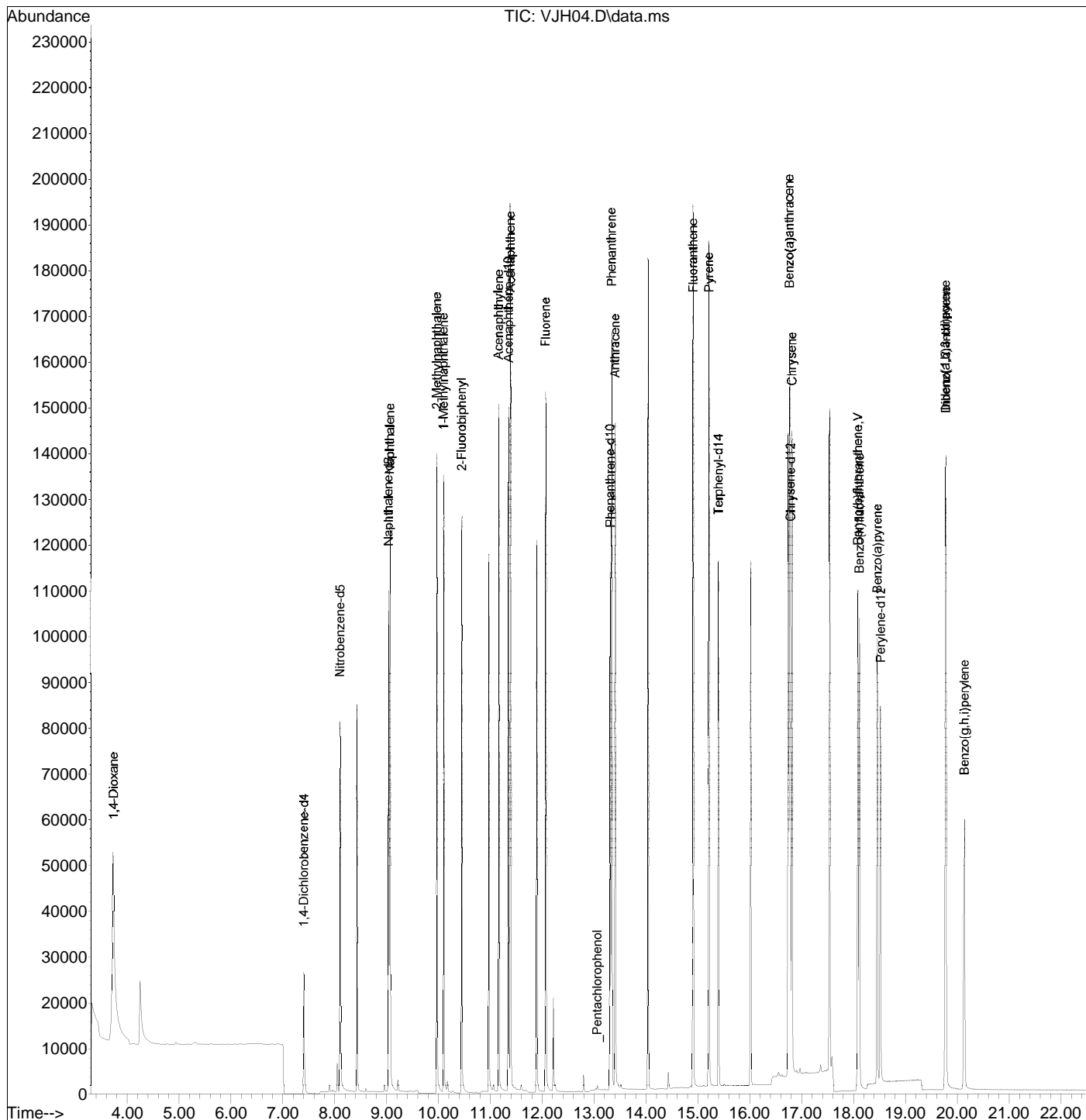
Analyst: YW1 Date: 10/17/18 Reviewer: LW Date: 10/17/18

+ = high bias c = CCV

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101718\
 Data File : VJH04.D
 Acq On : 17 Oct 2018 10:55 am
 Operator :
 Sample : ccv,s38012
 Misc : ccv
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 17 12:58:26 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101718\
 Data File : VJH04.D
 Acq On : 17 Oct 2018 10:55 am
 Operator :
 Sample : ccv,s38012
 Misc : ccv
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 17 12:58:26 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.402	152	23152	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.034	136	92514	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.347	164	55806	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.306	188	99881	1.0000	ug/mL	0.00
18) Chrysene-d12	16.776	240	79516	1.0000	ug/mL	0.00
23) Perylene-d12	18.512	264	65875	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.732	88	64483m	6.0689	ug/mL	
4) Nitrobenzene-d5	8.101	82	41096	1.3943	ug/mL	91
5) Naphthalene	9.062	128	101322	1.0864	ug/mL	95
6) 2-Methylnaphthalene	9.965	142	75759	1.0721	ug/mL	99
7) 1-Methylnaphthalene	10.096	142	68971	1.0651	ug/mL	93
9) 2-Fluorobiphenyl	10.446	172	94169	1.0347	ug/mL	95
10) Acenaphthylene	11.159	152	104996	1.0654	ug/mL	95
11) Acenaphthene	11.387	154	67494	1.0987	ug/mL	97
12) Fluorene	12.064	166	79923	1.0572	ug/mL	94
14) _Pentachlorophenol	13.057	266	509	0.5085	ug/mL	94
15) Phenanthrene	13.335	178	115892	1.1156	ug/mL	99
16) Anthracene	13.401	178	110228	1.0764	ug/mL	99
17) Fluoranthene	14.905	202	128437	1.0383	ug/mL	97
19) Pyrene	15.206	202	128675	1.1587	ug/mL	99
20) Terphenyl-d14	15.392	244	100888	1.1149	ug/mL	88
21) Benzo(a)anthracene	16.761	228	108505	1.0703	ug/mL	97
22) Chrysene	16.806	228	103300	1.0668	ug/mL	96
24) Benzo(b)fluoranthene	18.074	252	91834	1.0798	ug/mL	98
25) Benzo(k)fluoranthene	18.104	252	88106	1.0181	ug/mL	98
26) Benzo(a)pyrene	18.449	252	81158	1.0653	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.765	276	83216	1.1174	ug/mL	# 37
28) Dibenz(a,h)anthracene	19.769	278	65279	1.0841	ug/mL	88
29) Benzo(g,h,i)perylene	20.129	276	64568	1.1033	ug/mL	# 91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ENTHALPY CONTINUING CALIBRATION FOR 303845 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 528419614003 File : vji03 Time : 18-OCT-2018 10:20
 Cal : 528398235001 Caldate : 03-OCT-2018
 Standards: S38012

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	1.0081	1.0897	1.000	1.081	ug/mL	8	30	0.0500	
Acenaphthylene	1.7659	1.8569	1.000	1.052	ug/mL	5	30	0.0500	
Acenaphthene	1.1008	1.2091	1.000	1.098	ug/mL	10	20	0.0500	
Fluorene	1.3547	1.4327	1.000	1.058	ug/mL	6	30	0.0500	
Phenanthrene	1.0400	1.1600	1.000	1.115	ug/mL	12	30	0.0500	
Anthracene	1.0253	1.1094	1.000	1.082	ug/mL	8	30	0.0500	
Fluoranthene	1.2385	1.3375	1.000	1.080	ug/mL	8	20	0.0500	
Pyrene	1.3966	1.5266	1.000	1.093	ug/mL	9	30	0.0500	
Benzo(a)anthracene	1.2750	1.3585	1.000	1.066	ug/mL	7	30	0.0500	
Chrysene	1.2177	1.3022	1.000	1.069	ug/mL	7	30	0.0500	
Benzo(b)fluoranthene	1.2911	1.3747	1.000	1.065	ug/mL	6	30	0.0500	
Benzo(k)fluoranthene	1.3137	1.3512	1.000	1.029	ug/mL	3	30	0.0500	
Benzo(a)pyrene	1.1565	1.2344	1.000	1.067	ug/mL	7	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1305	1.2462	1.000	1.102	ug/mL	10	30	0.0500	
Dibenz(a,h)anthracene	0.9141	0.9646	1.000	1.055	ug/mL	6	30	0.0500	
Benzo(g,h,i)perylene	0.8884	0.9622	1.000	1.083	ug/mL	8	30	0.0500	
Nitrobenzene-d5	0.3186	0.4297	1.000	1.349	ug/mL	35	30	0.0500	c+
2-Fluorobiphenyl	1.6308	1.7179	1.000	1.053	ug/mL	5	30	0.0500	
Terphenyl-d14	1.1380	1.2177	1.000	1.070	ug/mL	7	30	0.0500	

YW1 10/18/18 [1,4-Dioxane]: Corrected automatically drawn baseline.

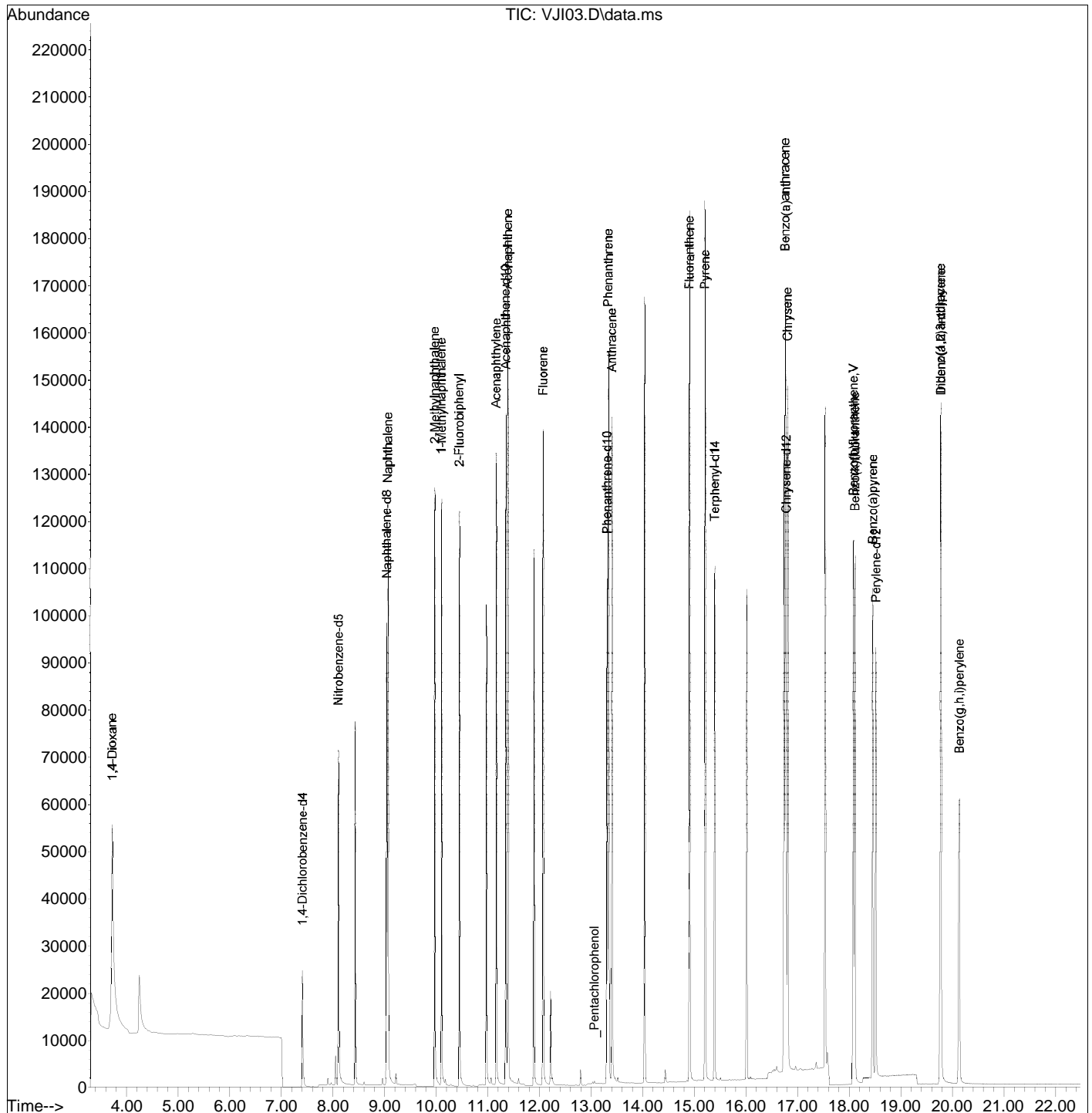
Analyst: YW1 Date: 10/18/18 Reviewer: LW Date: 10/18/18

+ = high bias c = CCV

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101818\
 Data File : VJI03.D
 Acq On : 18 Oct 2018 10:20 am
 Operator :
 Sample : CCV,S38012
 Misc : CCV
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 18 13:05:49 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\101818\
 Data File : VJI03.D
 Acq On : 18 Oct 2018 10:20 am
 Operator :
 Sample : CCV,S38012
 Misc : CCV
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 18 13:05:49 2018
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Oct 16 11:58:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.406	152	21458	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.039	136	86295	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.348	164	51680	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.306	188	94015	1.0000	ug/mL	0.00
18) Chrysene-d12	16.775	240	81168	1.0000	ug/mL	0.00
23) Perylene-d12	18.509	264	69253	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.721	88	59319m	6.0237	ug/mL	
4) Nitrobenzene-d5	8.106	82	37085	1.3489	ug/mL	89
5) Naphthalene	9.063	128	94038	1.0809	ug/mL	95
6) 2-Methylnaphthalene	9.970	142	70790	1.0739	ug/mL	94
7) 1-Methylnaphthalene	10.101	142	63491	1.0511	ug/mL	98
9) 2-Fluorobiphenyl	10.447	172	88782	1.0534	ug/mL	93
10) Acenaphthylene	11.160	152	95966	1.0516	ug/mL	96
11) Acenaphthene	11.388	154	62484	1.0984	ug/mL	95
12) Fluorene	12.070	166	74044	1.0576	ug/mL	94
14) _Pentachlorophenol	13.063	266	282	0.2993	ug/mL	91
15) Phenanthrene	13.336	178	109055	1.1153	ug/mL	98
16) Anthracene	13.401	178	104304	1.0821	ug/mL	99
17) Fluoranthene	14.904	202	125747	1.0800	ug/mL	97
19) Pyrene	15.205	202	123910	1.0931	ug/mL	99
20) Terphenyl-d14	15.391	244	98835	1.0700	ug/mL	88
21) Benzo(a)anthracene	16.760	228	110269	1.0655	ug/mL	97
22) Chrysene	16.804	228	105701	1.0694	ug/mL	96
24) Benzo(b)fluoranthene	18.075	252	95205	1.0648	ug/mL	96
25) Benzo(k)fluoranthene	18.104	252	93575	1.0286	ug/mL	95
26) Benzo(a)pyrene	18.446	252	85483	1.0673	ug/mL	96
27) Indeno(1,2,3-cd)pyrene	19.762	276	86304	1.1023	ug/mL	# 38
28) Dibenz(a,h)anthracene	19.769	278	66798	1.0552	ug/mL	89
29) Benzo(g,h,i)perylene	20.126	276	66635	1.0831	ug/mL	# 91

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 303845

ANALYTICAL REPORT

Wet Chemistry

TRC Solutions
505 Sansome St
San Francisco, CA 94111

Project : 285830.02A.01
Location : Riley Avenue
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	303845-001
BR11-1GW02	303845-002
BR11-1GW03	303845-003
DUP10032018-01	303845-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 10/19/2018

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

**CASE NARRATIVE
WET CHEMISTRY (SM2540C)**

Laboratory number: **303845**
Client: **TRC Solutions**
Project: **285830.02A.01**
Location: **Riley Avenue**
Request Date: **10/03/18**
Samples Received: **10/03/18**

This data package contains sample and QC results for four water samples, requested for the above referenced project on 10/03/18. See attached cooler receipt form for any sample receipt problems or discrepancies.

Total Dissolved Solids (TDS) (SM2540C):

No analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 203045
 Date Received: 10/3/18

Client: TRE solutions
 Project: _____



Section 2: Samples received in a cooler? Yes, how many? 1 No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # A, or B

Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 10/3/18 By (print) AC (sign) [Signature]

Shipping info (if applicable) _____

Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package

Date: _____ How many _____ Signature, Initials, None

Were custody seals intact upon arrival? Yes No N/A

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

Samples received on ice directly from the field. Cooling process had begun

Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No

Temperature measured using Thermometer ID: _____, or IR Gun # A B

Cooler Temp (°C): #1: 2.1, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	<input checked="" type="checkbox"/>		
Were Method 5035 sampling containers present?		<input checked="" type="checkbox"/>	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	<input checked="" type="checkbox"/>		
Are there any missing / extra samples?		<input checked="" type="checkbox"/>	
Are samples in the appropriate containers for indicated tests?	<input checked="" type="checkbox"/>		
Are sample labels present, in good condition and complete?	<input checked="" type="checkbox"/>		
Does the container count match the COC?	<input checked="" type="checkbox"/>		
Do the sample labels agree with custody papers?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent for tests requested?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for unpreserved VOAs?	<input checked="" type="checkbox"/>		
Did you change the hold time in LIMS for preserved terracores?			<input checked="" type="checkbox"/>
Are bubbles > 6mm absent in VOA samples?	<input checked="" type="checkbox"/>		
Was the client contacted concerning this sample delivery?		<input checked="" type="checkbox"/>	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			<input checked="" type="checkbox"/>
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:

Explanations/Comments: _____

Date Logged in 10/3/18 By (print) AC (sign) [Signature]
 Date Labeled 10/4/18 By (print) DO (sign) [Signature]

Results & QC Summary

Total Dissolved Solids (TDS)			
Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	METHOD
Project#:	285830.02A.01	Analysis:	SM2540C
Analyte:	Total Dissolved Solids	Sampled:	10/03/18
Matrix:	Water	Received:	10/03/18
Units:	mg/L	Prepared:	10/05/18
Diln Fac:	1.000	Analyzed:	10/06/18
Batch#:	264227		

Field ID	Type	Lab ID	Result	RL
BR11-1GW01	SAMPLE	303845-001	680	10
BR11-1GW02	SAMPLE	303845-002	420	10
BR11-1GW03	SAMPLE	303845-003	960	10
DUP10032018-01	SAMPLE	303845-004	660	10
	BLANK	QC950521	ND	10

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Dissolved Solids (TDS)			
Lab #:	303845	Location:	Riley Avenue
Client:	TRC Solutions	Prep:	METHOD
Project#:	285830.02A.01	Analysis:	SM2540C
Analyte:	Total Dissolved Solids	Batch#:	264227
Matrix:	Water	Prepared:	10/05/18
Units:	mg/L	Analyzed:	10/06/18
Diln Fac:	1.000		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Sampled	Received
	BS		QC950522		90.20	96.00		106	76-122				
	BSD		QC950523		90.20	98.00		109	76-122	2	5		
BR11-1GW02	SDUP	303845-002	QC950524	424.0		422.0	10.00			0	5	10/03/18	10/03/18
ZZZZZZZZZZ	SDUP	303879-016	QC950525	458.0		470.0	10.00			3	5	10/02/18	10/04/18

RL= Reporting Limit

RPD= Relative Percent Difference



Enthalpy Analytical - Berkeley Sample Batch Report

Batch Number: 264227
 Date Started: 05-OCT-2018
 Batched by : Eleanor H. Su

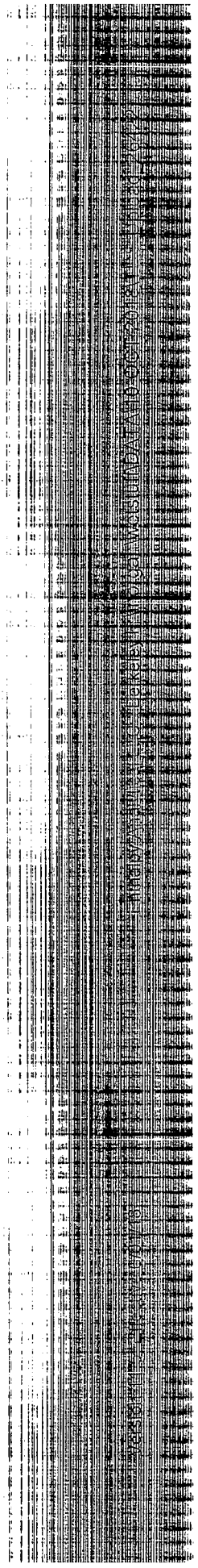
Analysis : TDS
 Bgroup : N/A
 Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due
303845-001		TRC Solutions	Water	TDS	09-08-2018
303845-002		TRC Solutions	Water	TDS	09-08-2018
303845-003		TRC Solutions	Water	TDS	09-08-2018
303845-004		TRC Solutions	Water	TDS	09-08-2018
303858-002		Wood E&I Solutions	Water	TDS	09-08-2018
303858-003		Wood E&I Solutions	Water	TDS	09-08-2018
303858-004		Wood E&I Solutions	Water	TDS	09-08-2018
303858-005		Wood E&I Solutions	Water	TDS	09-08-2018
303858-006		Wood E&I Solutions	Water	TDS	09-08-2018
303858-007		Wood E&I Solutions	Water	TDS	09-08-2018
303879-008		ETIC Engineering,	Water	TDS	11-08-2018
303879-009		ETIC Engineering,	Water	TDS	11-08-2018
303879-010		ETIC Engineering,	Water	TDS	11-08-2018
303879-015		ETIC Engineering,	Water	TDS	11-08-2018
303879-016		ETIC Engineering,	Water	TDS	11-08-2018
303879-022		ETIC Engineering,	Water	TDS	11-08-2018
303879-028		ETIC Engineering,	Water	TDS	11-08-2018
303879-029		ETIC Engineering,	Water	TDS	11-08-2018
303879-035		ETIC Engineering,	Water	TDS	11-08-2018
303879-036		ETIC Engineering,	Water	TDS	11-08-2018
QC950521	BLANK		Water	TDS	
QC950522	BS		Water	TDS	
QC950523	BSD		Water	TDS	
QC950524	SDUP	of 303845-002	Water	TDS	
QC950525	SDUP	of 303879-016	Water	TDS	

Analysis: Total Dissolved Solute Analyst: EHS Filtration Date: 10/5/18 14:03 (B): 10/5/18 16:40 (C):
 Method: SMWW 2540C Batch #: 264227 Analysis Date: 10/6/18 10:00 10/6/18 10:00 (C):
 SOP#: tds_rv 14.doc Matrix: Water

Sample	Sample #	.PD	.AD	Sample Vol (mL)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	Report (mg/L)	Reporting Limit (mg/L)	Spike Vol. Used (mL)	Spike Std Conc (mg/L)	Spike (mg/L)	%Rec.	RPD, %
BLANK	QC950521	A	A	50	68.4011	68.4009	-0.0002	ND	ND	10				
LCS/BS	QC950522	A	A	50	67.8113	67.8161	0.0048	96.0	96.0	50	90.2	90.2	106	
BSD	QC950523	A	A	50	68.5902	68.5951	0.0049	98.0	98.0	50	90	90	109	2
Sample1	303845-002	A	A	50	67.8543	67.8755	0.0212	424.0	424.0	10				0
SDUP 1	QC950524	A	A	50	68.5545	68.5756	0.0211	422.0	422.0	10				
Sample11	303879-016	B	B	50	71.7692	71.7921	0.0229	458.0	458.0	10				3
SDUP 2	QC950525	B	B	50	70.5628	70.5863	0.0235	470.0	470.0	10				
Sample2	303845-001	A	A	50	70.4401	70.4742	0.0341	682.0	682.0	10				
Sample3	303845-003	A	A	50	69.6703	69.7182	0.0479	958.0	958.0	10				
Sample4	303845-004	A	A	50	68.5420	68.5749	0.0329	658.0	658.0	10				
Sample5	303858-002	A	A	50	67.1956	67.1958	0.0002	ND	ND	10				
Sample6	303858-003	A	A	50	69.9352	70.0180	0.0828	1,656.0	1,656.0	10				
Sample7	303858-004	A	A	50	69.3195	69.4390	0.1195	2,390.0	2,390.0	10				
Sample8	303858-005	A	A	50	69.4096	69.4981	0.0885	1,770.0	1,770.0	10				
Sample9	303858-006	A	A	50	70.9223	71.0252	0.1029	2,058.0	2,058.0	10				
Sample10	303858-007	A	A	50	68.8266	68.9140	0.0874	1,748.0	1,748.0	10				
Sample12	303879-008	B	B	50	69.1354	69.1434	0.0080	160.0	160.0	10				
Sample13	303879-009	B	B	50	69.9635	69.9699	0.0064	128.0	128.0	10				
Sample14	303879-010	B	B	50	67.1666	67.1745	0.0079	158.0	158.0	10				
Sample15	303879-015	B	B	50	65.0444	65.0687	0.0243	486.0	486.0	10				
Sample16	303879-022	B	B	50	67.7050	67.7150	0.0100	200.0	200.0	10				
Sample17	303879-028	B	B	50	66.5713	66.6367	0.0654	1,308.0	1,308.0	10				
Sample18	303879-029	B	B	50	66.1442	66.1821	0.0379	758.0	758.0	10				
Sample19	303879-035	B	B	50	68.0823	68.0929	0.0106	212.0	212.0	10				
Sample20	303879-036	B	B	50	70.9245	70.9482	0.0237	474.0	474.0	10				

TDS (mg/L) = (Constant Wt (g) - Initial Wt (g)) * 1,000,000 / Sample Vol (mL)



TDS by SMWW 2540C
 Total Solids by SMWW 2540B

Enthalpy Analytical LLC - Berkeley
v 7.3, July 2017

LIMS Batch #: 264227
Filtered by: ELH

Prep Date: 10/05/18
Prep Time: 14:03/16:40

Benchbook#: **BK 4285**
Page: **53**

EC Meter ID: EC01
EC Cal Std S#: 32014 exp: 11/30/18
1mc Std (uS/cm): 1000
Vol Used (mL): 50
Final Vol (mL): 50

Filter Mfg/ Lot#: 600015-5146-R2
600018-8180-AH

Spike Std LIMS#: 38008
Std Exp Date: 03/31/19
Spike Std Conc (mg/L): 90.2
Spike Std Vol Added (mL): 50
Pipette ID/lot#: NA

Balance ID: B-1
Balance is calibrated? Yes No

	In	Out	In-2	Out-2	In-3	Out-3
Date:	10/05/18	10/06/18	10/05/18	10/05/18	10/05/18	10/05/18
Time:	14:55 / 17:16	10:00	10:40	11:40	13:20	14:20
Min/Max Range (°C):	185	185	185	185	185	185
Thermometer ID:	W04/S	W04/S	W04/S	W04/S	W04	W04
Weighed by:		ELH		ELH		ELH

Sample #	Container ID	EC Value (uS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt (g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB	-	50 50	JOB	68.4011	68.4014	68.4009	-
	BS	-		WELL	67.8113	67.8162	67.8161	-
	BSD	-		CROW	68.5902	68.5952	68.5951	-
	303845-002	D	671	LAMB	67.8513	67.8758	67.8755	-
5	↓SDUP	P	671	DWL	68.5545	68.5758	68.5756	-
	303845-001	E	1099	POG	70.4401	70.4747	70.4742	-
	↓-003	E	1662	KITE	69.6703	69.7220	69.7186	69.7182
	↓-004	D	1109	BASS	68.5420	68.5749	68.5749	-
	303845-002	L	1.78	TXR	67.1956	67.1957	67.1958	-
10	↓-003	L	2773	GATE	69.9352	69.70197	69.700183	70.0180
	↓-004	L	3820	KICE	69.7195	69.7220	69.7220	69.4395
	↓-005	L	2907	ARM	69.4096	69.6003	69.4986	69.4981
	↓-006	L	3306	FE38	70.9723	71.0252	71.0252	-
	↓-007	L	2752	PAM	68.8266	68.9161	68.9143	68.9140
15	303879-016	B	702	TREA	71.7692	71.7926	71.7921	-
	↓SDUP	B	702	VON	70.5628	70.5868	70.5863	-
	303879-003	B	252.1	CAGE	69.1354	69.1435	69.1434	-
	↓-009	B	232.2	070E	69.4635	69.9715	69.9702	69.1699
	↓-010	B	252.5	WCV	67.1666	67.1744	67.1745	-
20	↓-015	B	766	ZUP	65.0444	65.0691	65.0687	-
	↓-022	B	356	PIE	67.7050	67.7147	67.7150	-
	↓-028	B	2493	BAT	66.7442 5713	66.6387	66.6369	66.6367
	↓-029	B	1408	KSF	66.1442	66.1854	66.1825	66.1821
	↓-035	B	351	MOMP	68.0823	68.0934	68.0929	-
	↓-036	B	754	TAN	70.9245	70.9486	70.9482	-

* Constant weight must be within 0.0005 from previous reading.

ELH 10/05/18
Analyst / Date

Continued on p. _____
Continued from p. _____

10/9/18
Reviewed by / Date

Date	Analyst	0.5000g	100.0000g	Set No.	Level
09/30/18	EHS	0.5000	100.0002	A306	✓
09/04/18	PGH	0.5000	99.9995	A306	✓
09/05/18	PGH	0.5000	99.9995	A306	✓
09/06/18	EWJ	0.5000	100.0004	A306	✓
09/07/18	EWJ	0.5000	100.0003	A306	✓
09/08/18	EWJ	0.5000	100.0001	A306	✓
09/10/18	EWJ	0.5000	100.0004	A306	✓
09/11/18	EWJ	0.5000	100.0002	A306	✓
09/12/18	PGH	0.5000	99.9995	A306	✓
09/13/18	EHS	0.5000	100.0001	A306	✓
09/14/18	PGH	0.5000	99.9996	A306	✓
09/17/18	EWJ	0.5000	100.0003	A306	✓
09/18/18	PGH	0.5000	99.9994	A306	✓
09/19/18	PGH	0.5000	99.9992	A306	✓
09/20/18	PGH	0.5000	99.9993	A306	✓
09/21/18	EWJ	0.5000	100.0004	A306	✓
09/24/18	EWJ	0.5000	100.0003	A306	✓
09/25/18	PGH	0.5000	99.9987	A306	✓
09/26/18	PGH	0.5000	99.9991	A306	✓
09/27/18	PGH	0.5000	99.9988	A306	✓
09/28/18	EHS	0.5000	100.0004	A306	✓
09/30/18	EWJ	0.5000	100.0002	A306	✓
10/02/18	EHS	0.5000	100.0005	A306	✓
10/03/18	PGH	0.5000	99.9991	A306	✓
10/04/18	PGH	0.5000	99.9989	A306	✓
10/05/18	EWJ	0.5000	100.0002	A306	✓
10/08/18	PGH	0.5000	99.9983	A306	✓
10/09/18	PGH	0.5000	99.9986	A306	✓

Continued on Page

Read and Understood By

Signed

Date

Signed

Date



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 306574

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

TRC Solutions Inc. 505 Sansome St San Francisco, CA 94111	Project : 285830.02A.01 Location : Riley Soil Investigation Level : IV
---	--

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	306574-001
BR11-1GW02	306574-002
BR11-1GW03	306574-003
DUP01182019-01	306574-004
TB01182019	306574-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 02/05/2019

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE
TPH-PURGEABLES AND/OR BTXE BY GC (EPA 8015B)

Laboratory number: **306574**
Client: **TRC Solutions Inc.**
Project: **285830.02A.01**
Location: **Riley Soil Investigation**
Request Date: **01/18/19**
Samples Received: **01/18/19**

This data package contains sample and QC results for five water samples, requested for the above referenced project on 01/18/19. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 306574
 Date Received: 1/18/19

Client: TRC
 Project: _____

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun # A, or B

Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 1/18/19 By (print) AC (sign) [Signature]

Shipping info (if applicable) _____

Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package

Date: _____ How many _____ Signature, Initials, None

Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

Samples received on ice directly from the field. Cooling process had begun

Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No

Temperature measured using Thermometer ID: _____, or IR Gun # A B

Cooler Temp (°C): #1: 4.2, #2: 4.9, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	/		
Were Method 5035 sampling containers present?			/
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	/		
Are there any missing / extra samples?			/
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm absent in VOA samples?			/
Was the client contacted concerning this sample delivery?			/
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			/
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:

Explanations/Comments: X Sample 5 1/1 VO2's arrived with bubbles

Results & QC Summary

Total Volatile Hydrocarbons			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	267119
Units:	ug/L	Sampled:	01/18/19
Diln Fac:	1.000	Received:	01/18/19

Field ID: BR11-1GW01 Lab ID: 306574-001
 Type: SAMPLE Analyzed: 01/22/19

Analyte	Result	RL
Gasoline C7-C12	63	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	80-120

Field ID: BR11-1GW02 Lab ID: 306574-002
 Type: SAMPLE Analyzed: 01/22/19

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	80-120

Field ID: BR11-1GW03 Lab ID: 306574-003
 Type: SAMPLE Analyzed: 01/22/19

Analyte	Result	RL
Gasoline C7-C12	83	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	80-120

ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	267119
Units:	ug/L	Sampled:	01/18/19
Diln Fac:	1.000	Received:	01/18/19

Field ID: DUP01182019-01 Lab ID: 306574-004
 Type: SAMPLE Analyzed: 01/22/19

Analyte	Result	RL
Gasoline C7-C12	72	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	80-120

Field ID: TB01182019 Lab ID: 306574-005
 Type: SAMPLE Analyzed: 01/21/19

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	80-120

Type: BLANK Analyzed: 01/21/19
 Lab ID: QC962049

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	267119
MSS Lab ID:	306563-001	Sampled:	01/18/19
Matrix:	Water	Received:	01/18/19
Units:	ug/L	Analyzed:	01/21/19
Diln Fac:	1.000		

Type: MS Lab ID: QC962050

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	18.06	2,000	2,330	116	78-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	80-120

Type: MSD Lab ID: QC962051

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,321	115	78-120	0	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	80-120

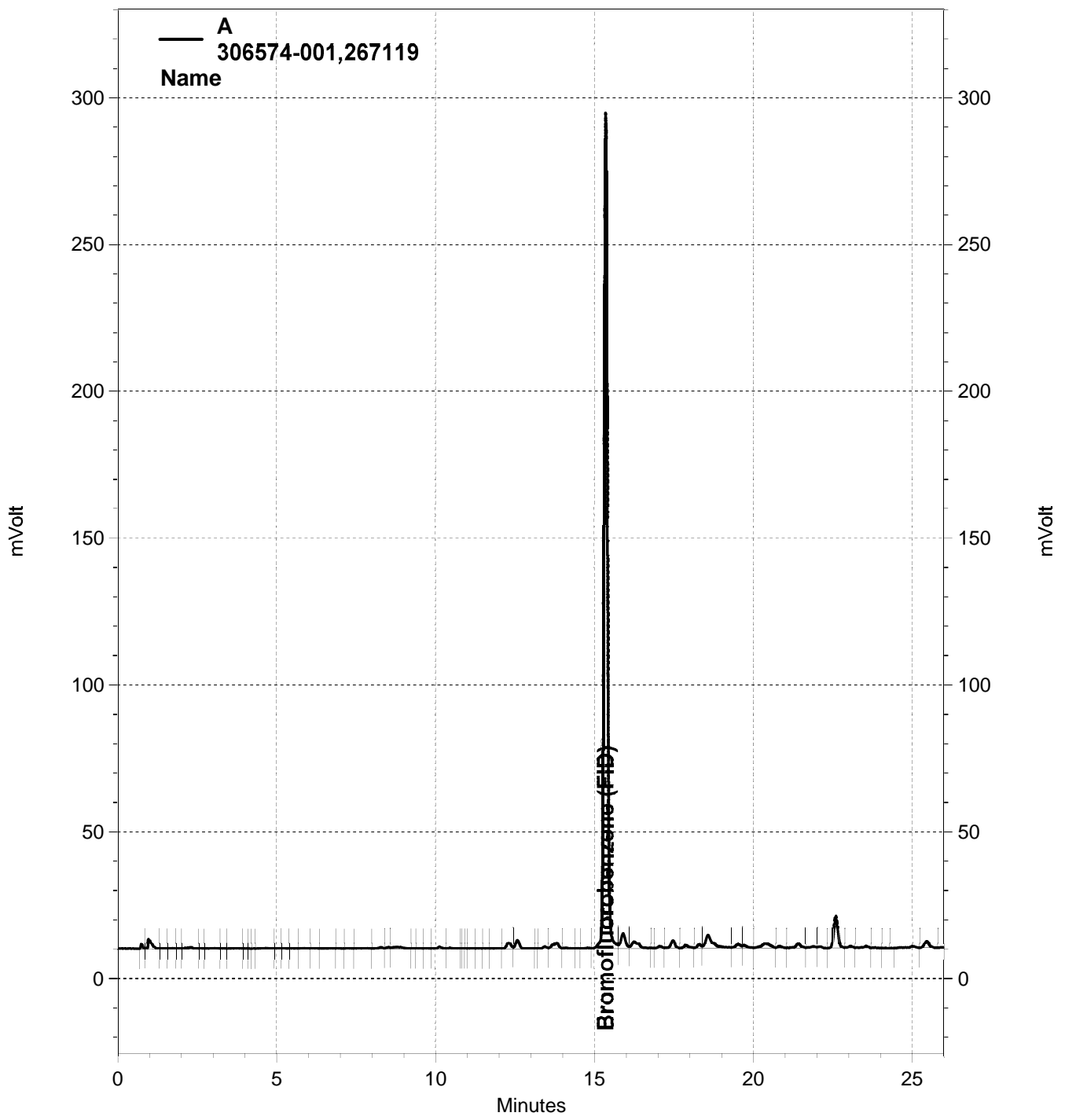
RPD= Relative Percent Difference

Batch QC Report

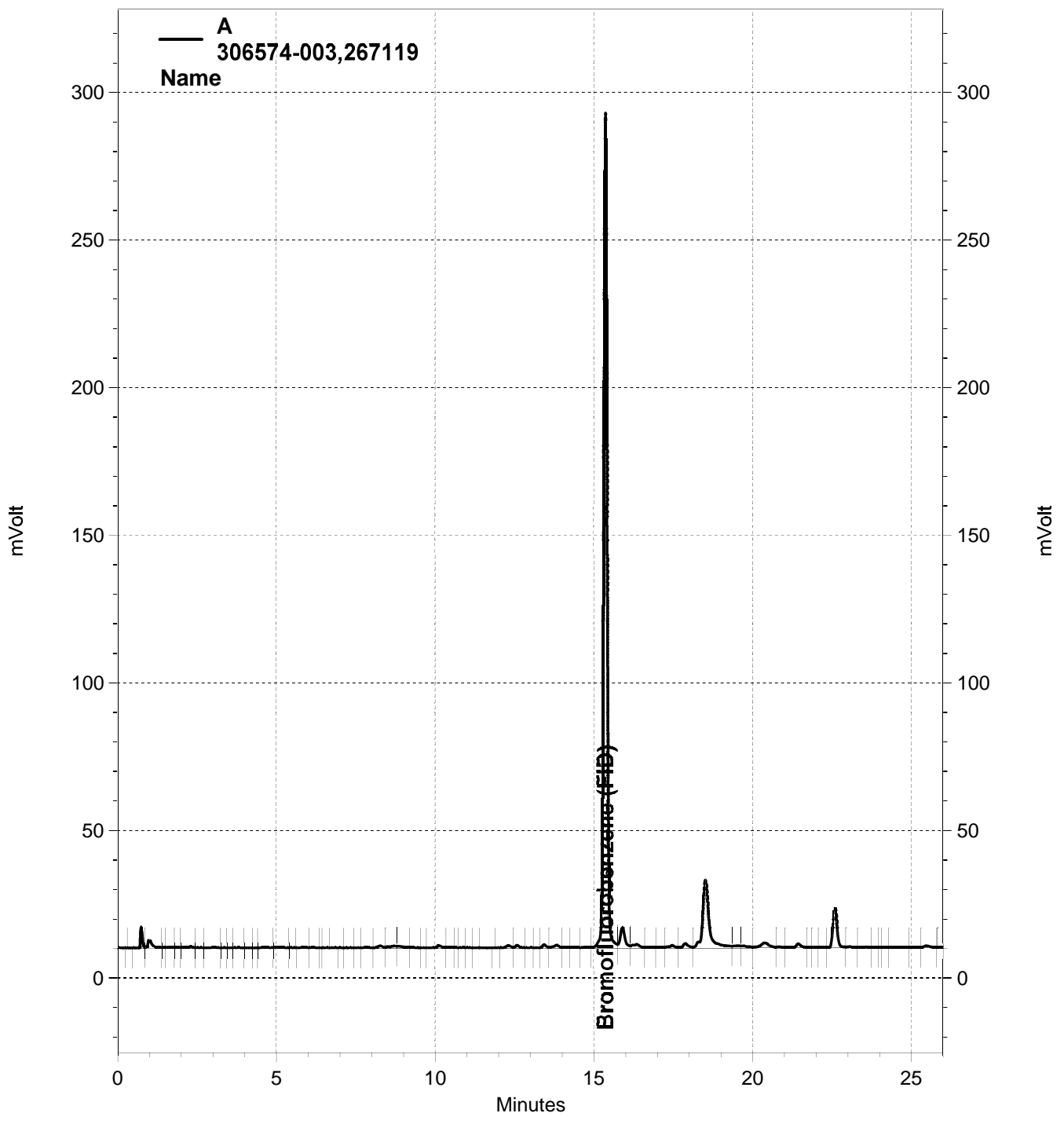
Total Volatile Hydrocarbons			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC962105	Batch#:	267119
Matrix:	Water	Analyzed:	01/21/19
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,198	110	80-120

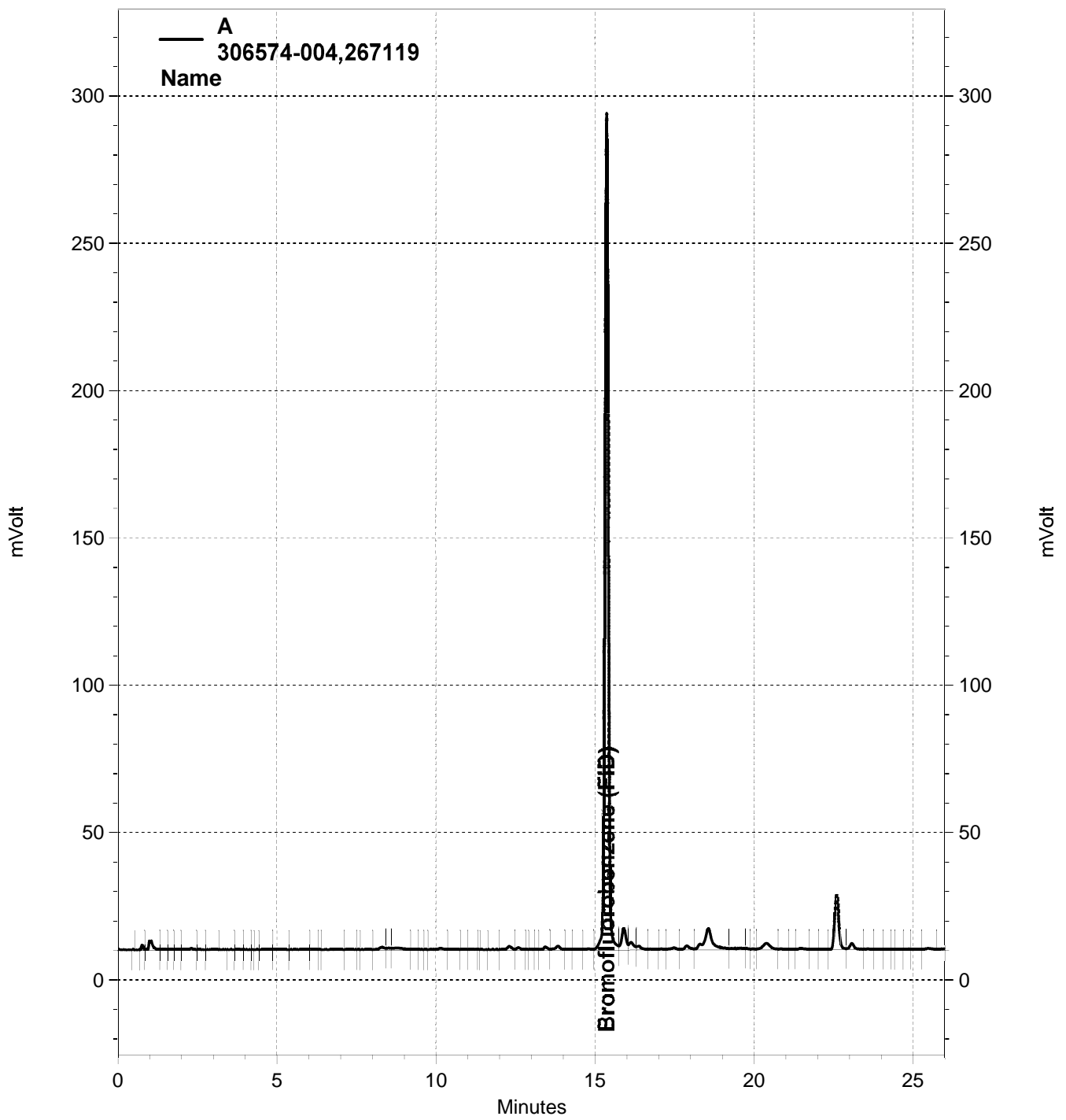
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	80-120



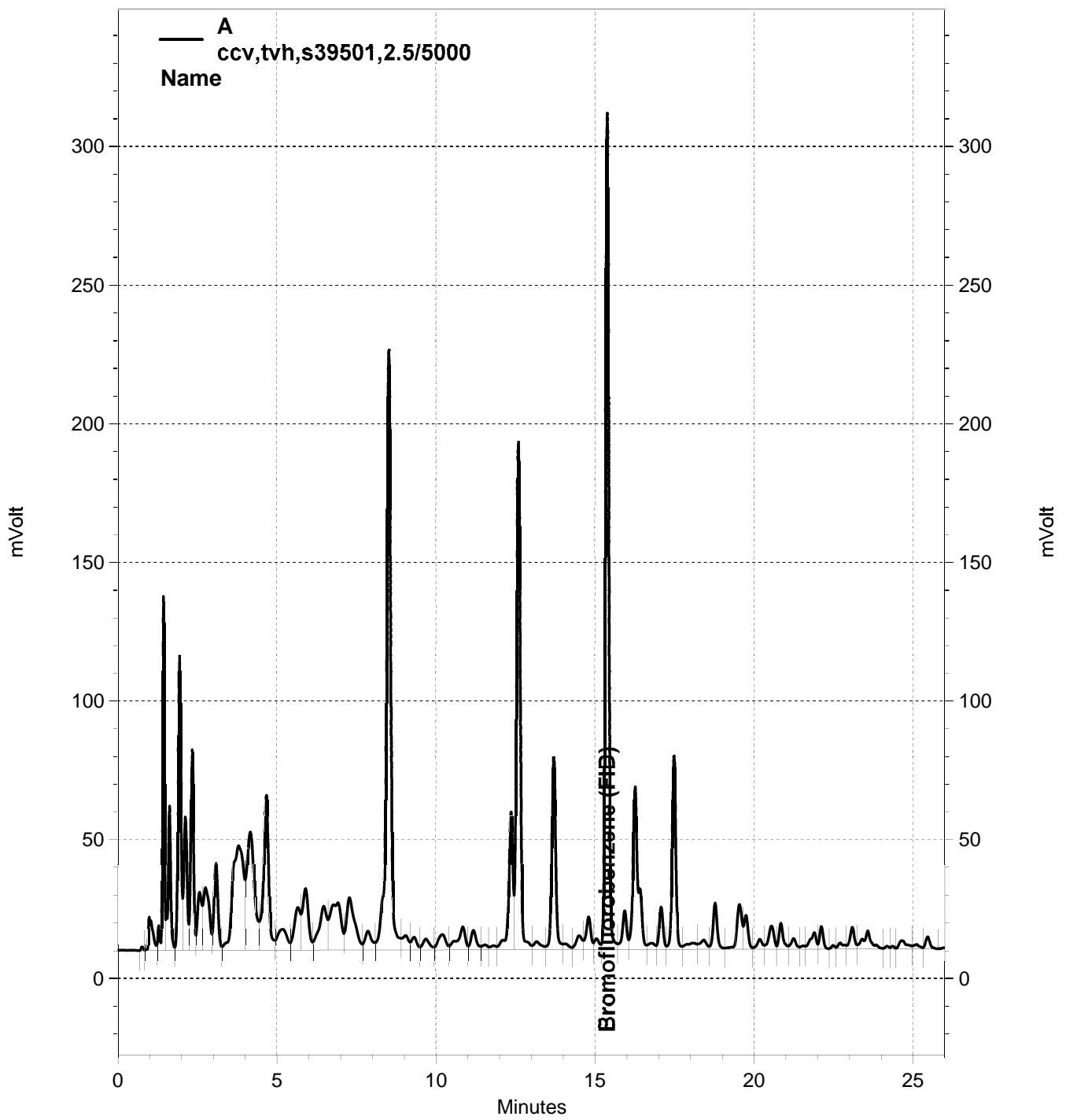
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-027, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-029, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-032, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-002, A

ENTHALPY INITIAL CALIBRATION FOR 306574 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 329026478001
 Units : ng

Name : TVH_018
 Date : 19-JAN-2019 02:53
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	018_025	329026478025	TVH_14	19-JAN-2019 02:53	S39162 (1000X), S39307 (5000X)
L2	018_026	329026478026	TVH_15	19-JAN-2019 03:32	S39161 (1000X), S39307 (5000X)
L3	018_027	329026478027	TVH_16	19-JAN-2019 04:10	S39160 (1000X), S39307 (5000X)
L4	018_028	329026478028	TVH_17	19-JAN-2019 04:48	S39159 (2000X), S39307 (5000X)
L5	018_029	329026478029	TVH_18	19-JAN-2019 05:27	S39159 (1000X), S39307 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	2467.5	1823.6	1845.3	1786.8	1930.2	AVRG		5.07E-4		1970.7	14	0.995	20	
Bromofluorobenzene (FID)	A	2296.8	2360.2	2386.8	2424.3	2599.4	AVRG		4.14E-4		2413.5	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	25	2500.0	-7	10000	-6	25000	-9	50000	-2
Bromofluorobenzene (FID)	A	900.00	-5	900.00	-2	900.00	-1	900.00	0	900.00	8

Analyst: JM2

Date: 01/21/19

Reviewer: EAH

Date: 01/21/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 329026478001

Name : TVH_018
Cal Date : 19-JAN-2019

ICV 329026478031 (018_031 19-JAN-2019) stds: S39163 (1000X), S39307 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8526	ng	-15	15	

Analyst: ALE

Date: 01/21/19

Reviewer: EAH

Date: 01/21/19

Carbon Marker Run

Inst : GC07

IDF : 1.0

Seqnum : 329026478033

File : 018_033

Time : 19-JAN-2019 08:00

Standards: S39468 (1000X), S39307 (5000X)

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C6 - n-Hexane	A	2.333	+/- 6s (0.100m)	2.233 - 2.433
C7 - n-Heptane	A	4.633	+/- 6s (0.100m)	4.533 - 4.733
C8 - n-Octane	A	8.3	+/- 6s (0.100m)	8.200 - 8.400
C10 - n-Decane	A	16.1	+/- 6s (0.100m)	16.000 - 16.200
C12 - n-Dodecane	A	23.033	+/- 6s (0.100m)	22.933 - 23.133

Carbon Range	Channel	Range Start	Range Stop
Gasoline C6-C10	A	2.233	16.200
Gasoline C6-C12	A	2.233	23.133
Gasoline C7-C12	A	4.533	23.133
JP-4 C7-C12	A	4.533	23.133

EZChrom method retention times successfully validated.

Analyst: ALE

Date: 01/21/19

Reviewer: EAH

Date: 01/21/19

ENTHALPY SPIKE USER REPORT FOR 306574 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC962094 IDF : 1.0
 Seqnum : 329030801002.6 File : 021_002 Time : 21-JAN-2019 10:00
 Cal : 329026478001 Caldate : 19-JAN-2019
 Standards: S39501 (2000X), S39307 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	1970.7	2127.9	5000	5399	ng	8	15	u
Bromofluorobenzene (FID)	A	2413.5	2419.8	900.0	902.3	ng	0	15	u

Analyst: JM2 Date: 01/22/19 Reviewer: EAH Date: 01/23/19

u=use

ENTHALPY SPIKE USER REPORT FOR 306574 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC962105 IDF : 1.0
 Seqnum : 329030801017.5 File : 021_017 Time : 21-JAN-2019 20:04
 Cal : 329026478001 Caldate : 19-JAN-2019
 Standards: S39501 (1000X), S39307 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1970.7	2165.7	10000	10990	ng	10	15	u
Bromofluorobenzene (FID)	A	2413.5	2274.8	900.0	848.3	ng	-6	15	u

Analyst: JM2 Date: 01/22/19 Reviewer: EAH Date: 01/23/19

u=use

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 329030801030 File : 021_030 Time : 22-JAN-2019 04:24
 Cal : 329026478001 Caldate : 19-JAN-2019
 Standards: S39501 (666.7X), S39307 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1970.7	2078.0	15000	15820	ng	5	15	
Bromofluorobenzene (FID)	A	2413.5	2183.2	900.0	814.1	ng	-10	15	

Analyst: ALE Date: 01/22/19 Reviewer: EAH Date: 01/22/19

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 329030801038 File : 021_038 Time : 22-JAN-2019 09:31
 Cal : 329026478001 Caldate : 19-JAN-2019
 Standards: S39501 (1000X), S39307 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1970.7	2073.2	10000	10520	ng	5	15	
Bromofluorobenzene (FID)	A	2413.5	2228.9	900.0	831.2	ng	-8	15	

Analyst: ALE Date: 01/22/19 Reviewer: EAH Date: 01/22/19

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 329026478

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 01/18/19 09:18
 SOP Version : TVH_BTXE_rv24

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	018_001	X	CMARKER			01/18/19 09:18	1.0	1 2	
002	018_002	CCV	BTXE			01/18/19 09:57	1.0	3 2	
003	018_003	CCV/BS	QC961861	Water	267068	01/18/19 10:35	1.0	4 2	
004	018_004	CCV	BTXE			01/18/19 11:14	1.0	3 2	
005	018_005	BSD	QC961862	Water	267068	01/18/19 11:52	1.0	4 2	
006	018_006	BLANK	QC961860	Water	267068	01/18/19 12:30	1.0	2	
007	018_007	IB				01/18/19 13:09	1.0	2	
008	018_008	SAMPLE	306119-010	Water	267068	01/18/19 13:47	1.0	2	sh , headspace > 1 mL
009	018_009	SAMPLE	306509-001	Water	267068	01/18/19 14:26	1.0	2	
010	018_010	SAMPLE	306398-002	Water	267068	01/18/19 15:04	1.0	2	
011	018_011	CCV	TVH			01/18/19 15:43	1.0	4 2	
012	018_012	X	CMARKER			01/18/19 16:21	1.0	1 2	
013	018_013	MSS	306441-001	Water	267068	01/18/19 19:13	1.0	2	
014	018_014	SAMPLE	306441-002	Water	267068	01/18/19 19:51	1.0	2	
015	018_015	MS	QC961885	Water	267068	01/18/19 20:29	1.0	4 2	
016	018_016	MSD	QC961886	Water	267068	01/18/19 21:07	1.0	4 2	
017	018_017	CCV	TVH			01/18/19 21:46	1.0	4 2	
018	018_018	X	CMARKER			01/18/19 22:24	1.0	1 2	
019	018_019	IB				01/18/19 23:03	1.0	2	
020	018_020	IB				01/18/19 23:41	1.0	2	
021	018_021	IB				01/19/19 00:19	1.0	2	
022	018_022	IB				01/19/19 00:58	1.0	2	
023	018_023	IB				01/19/19 01:36	1.0	2	
024	018_024	IB	CALIB			01/19/19 02:14	1.0	2	
025	018_025	ICAL	TVH_14			01/19/19 02:53	1.0	5 2	
026	018_026	ICAL	TVH_15			01/19/19 03:32	1.0	6 2	
027	018_027	ICAL	TVH_16			01/19/19 04:10	1.0	7 2	
028	018_028	ICAL	TVH_17			01/19/19 04:48	1.0	8 2	
029	018_029	ICAL	TVH_18			01/19/19 05:27	1.0	8 2	
030	018_030	IB				01/19/19 06:05	1.0	2	
031	018_031	ICV	TVH			01/19/19 06:43	1.0	4 2	
032	018_032	X	ICV			01/19/19 07:22	1.0	4 2	
033	018_033	CMARKER				01/19/19 08:00	1.0	1 2	

JM2 01/18/19 : Partial sequence for 306119, 306398 and 306509.

JM2 01/18/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 12.

EAH 01/18/19 : Reviewed for 306119, 306398 and 306509.

ALE 01/21/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 33.

EAH 01/21/19 : Reviewed sequence.

Reviewed by: ALE Date: 01/21/19

Standards used: 1=S39468 2=S39307 3=S38580 4=S39163 5=S39162 6=S39161 7=S39160 8=S39159

Flags used: sh=out of sample hold

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 329030801

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 01/21/19 09:21
 SOP Version : TVH_BTXE_rv24

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	021_001	X	CMARKER			01/21/19 09:21	1.0	1 2	
002	021_002	CCV/BS	QC962094	Soil	267117	01/21/19 10:00	1.0	3 2	
003	021_003	CCV/BS	QC962045	Soil	267117	01/21/19 10:56	1.0	4 2	
004	021_004	BSD	QC962095	Soil	267117	01/21/19 11:35	1.0	3 2	
005	021_005	BSD	QC962046	Soil	267117	01/21/19 12:13	1.0	4 2	
006	021_006	BLANK	QC962044	Soil	267117	01/21/19 13:02	1.0	2	
007	021_007	BLANK	QC962049	Water	267119	01/21/19 13:40	1.0	2	
008	021_008	SAMPLE	306579-021	Soil	267117	01/21/19 14:19	1.0	2	
009	021_009	SAMPLE	306579-022	Soil	267117	01/21/19 14:57	1.0	2	
010	021_010	MSS	306575-005	Soil	267117	01/21/19 15:36	1.0	2	
011	021_011	SAMPLE	306575-010	Soil	267117	01/21/19 16:14	1.0	2	
012	021_012	MSS	306563-001	Water	267119	01/21/19 16:53	1.0	2	
013	021_013	MS	QC962050	Water	267119	01/21/19 17:31	1.0	3 2	
014	021_014	MSD	QC962051	Water	267119	01/21/19 18:09	1.0	3 2	
015	021_015	MS	QC962047	Soil	267117	01/21/19 18:48	1.0	3 2	
016	021_016	MSD	QC962048	Soil	267117	01/21/19 19:26	1.0	3 2	
017	021_017	CCV/LCS	QC962105	Water	267119	01/21/19 20:04	1.0	3 2	
018	021_018	X	CMARKER			01/21/19 20:42	1.0	1 2	
019	021_019	CCV	BTXE			01/21/19 21:21	1.0	4 2	
020	021_020	SAMPLE	306574-005	Water	267119	01/21/19 21:59	1.0	2	
021	021_021	SAMPLE	306558-001	Water	267119	01/21/19 22:38	1.0	2	1:MTBE=6000
022	021_022	SAMPLE	306558-002	Water	267119	01/21/19 23:16	1.0	2	
023	021_023	SAMPLE	306558-003	Water	267119	01/21/19 23:55	1.0	2	1:MTBE=10000
024	021_024	SAMPLE	306580-001	Water	267119	01/22/19 00:33	1.0	2	1:MTBE=12000
025	021_025	SAMPLE	306580-002	Water	267119	01/22/19 01:11	1.0	2	6:GAS:7-12=85000
026	021_026	SAMPLE	306580-003	Water	267119	01/22/19 01:50	1.0	2	
027	021_027	SAMPLE	306574-001	Water	267119	01/22/19 02:28	1.0	2	
028	021_028	SAMPLE	306574-002	Water	267119	01/22/19 03:07	1.0	2	
029	021_029	SAMPLE	306574-003	Water	267119	01/22/19 03:45	1.0	2	
030	021_030	CCV	TVH			01/22/19 04:24	1.0	3 2	
031	021_031	X	CMARKER			01/22/19 05:02	1.0	1 2	
032	021_032	SAMPLE	306574-004	Water	267119	01/22/19 05:41	1.0	2	
033	021_033	SAMPLE	306578-001	Soil	267117	01/22/19 06:19	1.0	2	
034	021_034	SAMPLE	306578-002	Soil	267117	01/22/19 06:57	1.0	2	
035	021_035	SAMPLE	306578-003	Soil	267117	01/22/19 07:36	1.0	2	
036	021_036	SAMPLE	306578-004	Soil	267117	01/22/19 08:14	1.0	2	
037	021_037	SAMPLE	306578-005	Soil	267117	01/22/19 08:53	1.0	2	
038	021_038	CCV	TVH			01/22/19 09:31	1.0	3 2	
039	021_039	X	CMARKER			01/22/19 10:09	1.0	1 2	

ALE 01/22/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 39.

Reviewed by: ALE Date: 01/22/19

Standards used: 1=S39468 2=S39307 3=S39501 4=S38580

TITLE TVH/BTXE Soil A(quot PROJECT

DATE

Continued from page		ID	Weight (g)	NALSQ	Comments/Initials	Bal. ID
Sample						
306537-6	A		0.99	No	JM2 1/18/19	B-6
↓ -1 MS	↓		1.01			
↓ -1 MSD	↓		1.09			
306119-7	A		0.99			
306542-1		MeOH	200/5000		diluted due to matrix	
↓ -2			1.01			
↓ -3		MeOH	200/5000		diluted due to matrix	
↓ -4		↓	↓		↓	
↓ -5			0.90			
306579-1	A	36.41-30.487	-0.54 = 5.39	No	JM2 1/21/19	B-6
↓ -2		36.98-29.975	= 6.47			
↓ -3		37.24-30.402	= 6.30			
↓ -4		37.42-30.686	= 6.19			
↓ -5		35.91-30.065	= 5.31			
↓ -6		36.40-29.982	= 5.88			
↓ -7		36.28-29.783	= 5.96			
↓ -8		36.79-30.464	= 5.79			
↓ -9		35.97-30.095	= 5.34			
↓ -10		36.49-29.909	= 6.04			
↓ -11		36.26-30.393	= 5.33			
↓ -12		36.10-30.293	= 5.27			
↓ -13		36.54-30.084	= 5.92			
↓ -14		37.24-30.289	= 6.41			
↓ -15		36.91-30.107	= 6.26			
↓ -16		37.40-30.386	= 6.47			
↓ -17		36.66-30.155	= 5.97			
↓ -18		35.78-29.888	= 5.35			
↓ -19		36.60-30.338	= 5.72			
↓ -20		37.26-30.378	= 6.34			
306575-5	A		1.01		Comp 575-(1-9)	
↓ -10			0.98		↓ - (6-9)	
↓ -5 MS			1.02		↓ - (1-9)	
↓ -5 MSD			0.93		↓ - (1-9)	
306579-21		37.00-30.346	-0.54 = 6.11			
↓ -22		37.29-29.912	↓ = 6.83			
306578-1	A		0.93			
↓ -2			1.05			
↓ -3			0.96			
↓ -4			1.04			
↓ -5			1.02			
306579-5	B	36.24-30.374	-0.54 = 5.33			
↓ -6	B	36.40-30.070	↓ = 5.79			

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

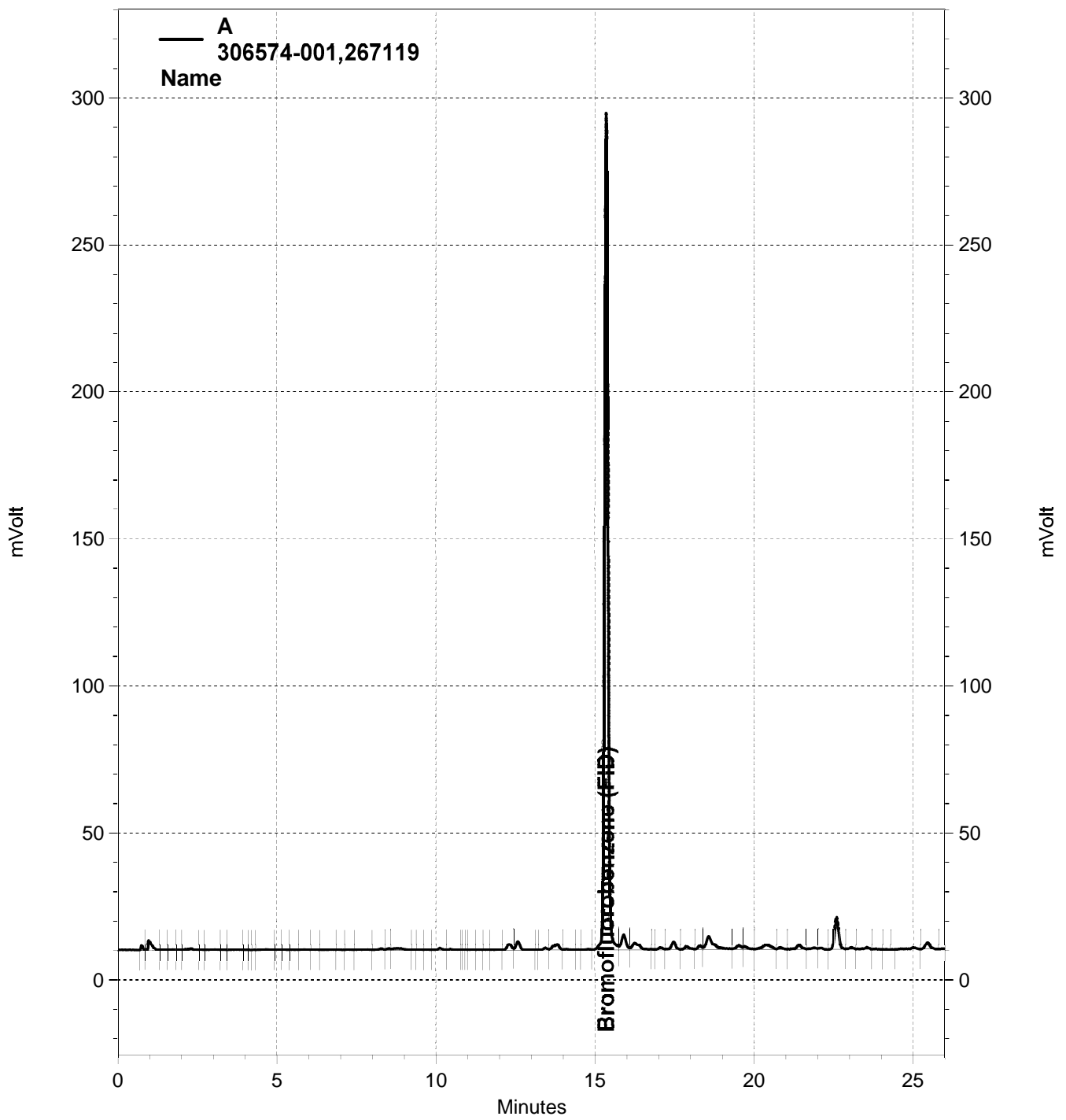
Inst : GC07 Lab ID : 306574-001 Client ID : BR11-1GW01
 Seqnum : 329030801027 Matrix : Water Acct : TRC-SF (MJD)
 File : 021_027 Batch : 267119 Time : 22-JAN-2019 02:28
 Cal : 329026478001 Caldate : 19-JAN-2019
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	315.2	63	50	20	u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	866.2	180.0	173.2	96	80-120	u

Analyst: ALE Date: 01/22/19 Reviewer: EAH Date: 01/22/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-027, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
Sample Name: 306574-001,267119
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-027
Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
Run Date: 1/22/2019 2:28:47 AM
Analysis Date: 1/22/2019 2:57:28 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	2090639	866.222
GAS:6-10			254902	133.399
GAS:6-12			647717	266.831
GAS:7-12			621120	315.182
JP4:7-12			621120	165.667
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.183	2.133	9093	5.448
Benzene	4.683	4.683	3441	0.440
Toluene	8.500	8.500	5556	0.769
Ethylbenzene	12.317	12.350	16658	2.670
m,p-Xylenes	12.583	12.567	33090	4.746
o-Xylene	13.700	13.683	9763	1.446
Bromofluorobenzene (PID)	15.350	15.350	5145118	861.782

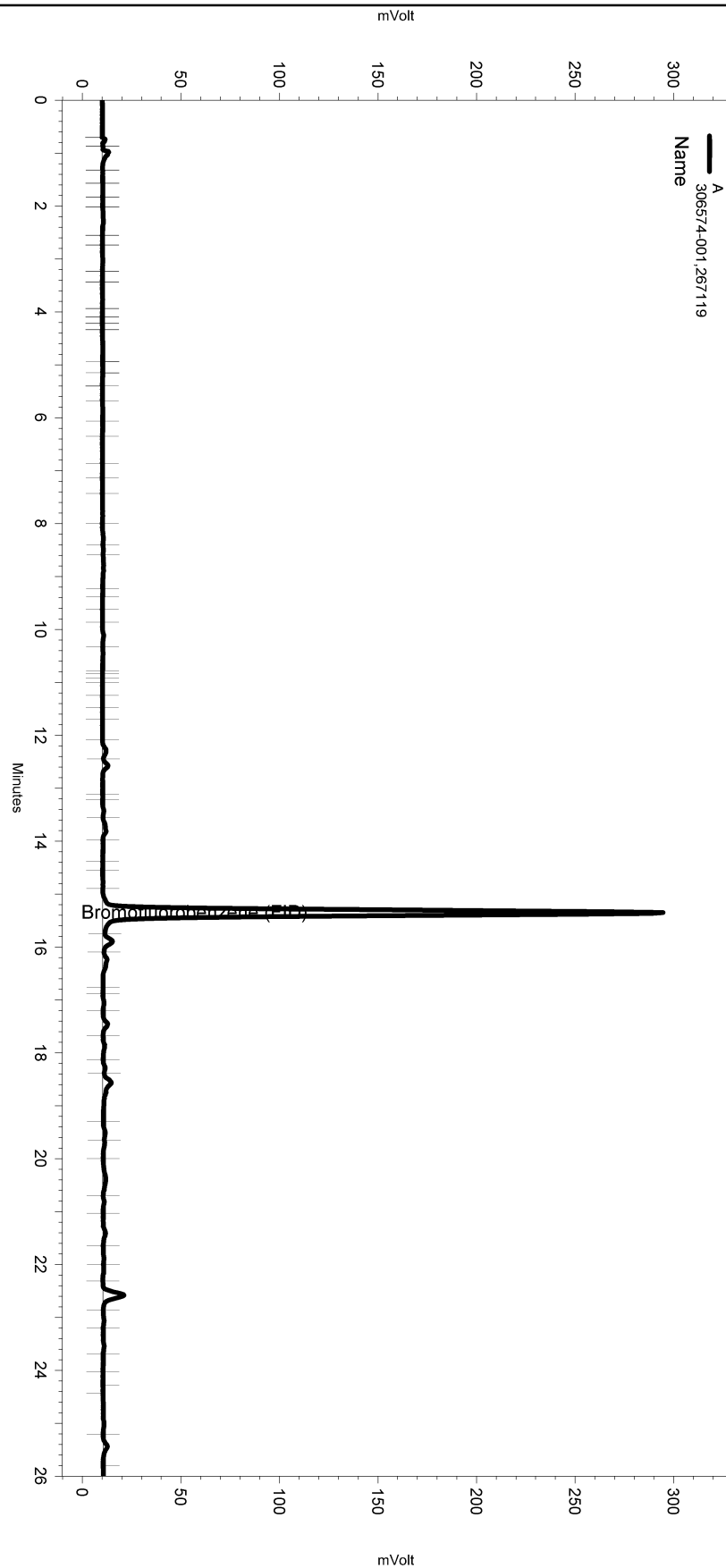
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	2.000	11132	6.550
Benzene	3.533	3.500	8863	1.090
Toluene		6.883		0.000 BDL
Ethylbenzene	10.599	10.599	12654	2.129
m,p-Xylenes	10.949	10.949	36138	4.808
o-Xylene	11.783	11.799	29442	3.918
Bromofluorobenzene (PID)	12.699	12.699	5948203	913.066

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: 306574-001,267119
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-027
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/22/2019 2:28:47 AM
 Analysis Date: 1/22/2019 2:57:28 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\021-027_5A4A.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

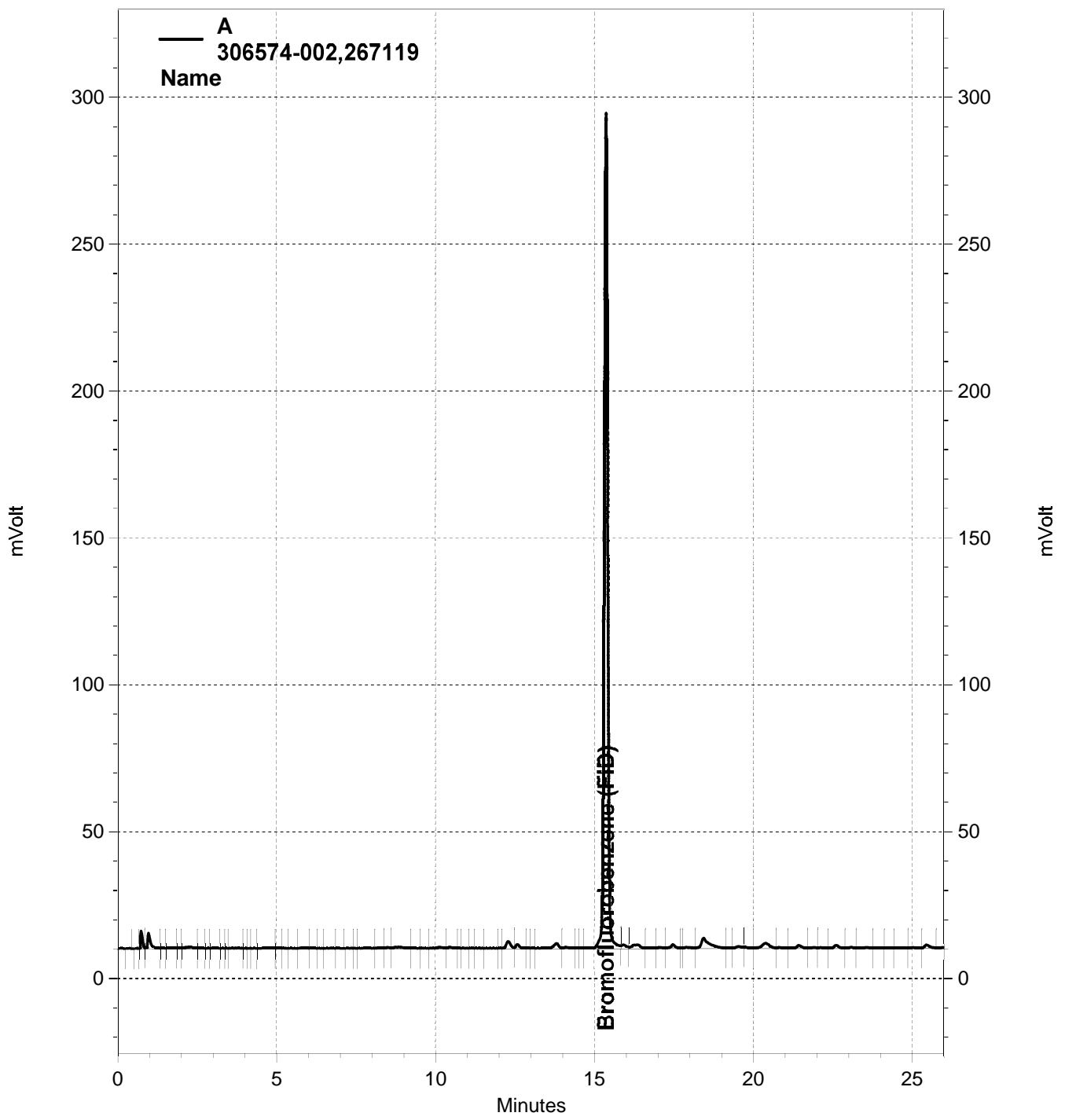
Inst : GC07 Lab ID : 306574-002 Client ID : BR11-1GW02
 Seqnum : 329030801028 Matrix : Water Acct : TRC-SF (MJD)
 File : 021_028 Batch : 267119 Time : 22-JAN-2019 03:07
 Cal : 329026478001 Caldate : 19-JAN-2019
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	199.6	ND	50	20	u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	869.6	180.0	173.9	97	80-120	u

Analyst: ALE Date: 01/22/19 Reviewer: EAH Date: 01/22/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-028, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: 306574-002,267119
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-028
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/22/2019 3:07:13 AM
 Analysis Date: 1/22/2019 3:35:56 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	2098770	869.591
GAS:6-10			190542	99.718
GAS:6-12			421735	173.736
GAS:7-12			393332	199.593
JP4:7-12			393332	104.911
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.200	2.133	10154	6.084
Benzene	4.700	4.683	2931	0.375
Toluene	8.517	8.500	4857	0.672
Ethylbenzene	12.300	12.350	16968	2.719
m,p-Xylenes	12.583	12.567	16928	2.428
o-Xylene		13.683		0.000 BDL
Bromofluorobenzene (PID)	15.367	15.350	5165637	865.219

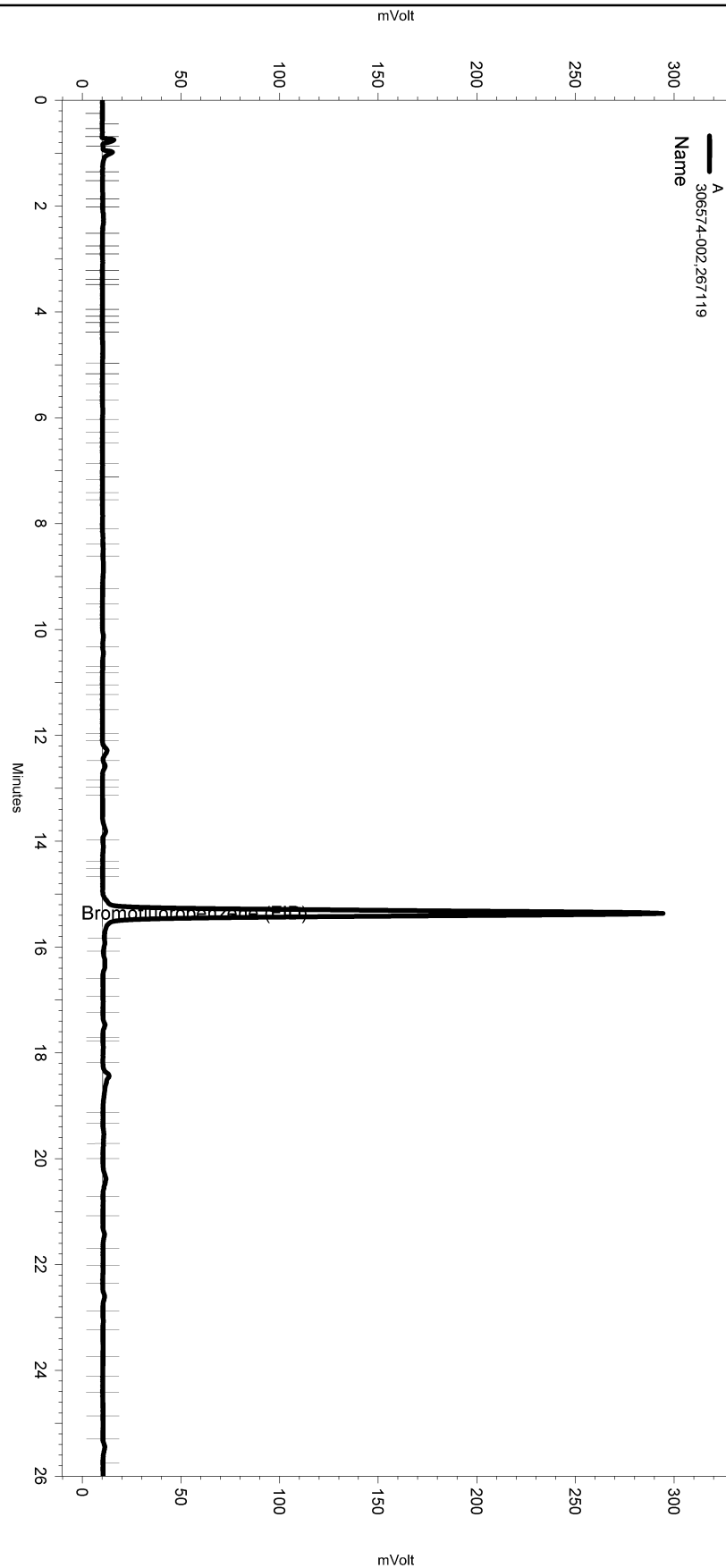
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	2.000	11989	7.054
Benzene	3.500	3.500	7978	0.981
Toluene		6.883		0.000 BDL
Ethylbenzene	10.599	10.599	9850	1.657
m,p-Xylenes	10.949	10.949	29278	3.895
o-Xylene	11.733	11.799	49883	6.638
Bromofluorobenzene (PID)	12.699	12.699	5907963	906.889

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: 306574-002,267119
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-028
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbx018.met

Software Version 3.1.7
 Run Date: 1/22/2019 3:07:13 AM
 Analysis Date: 1/22/2019 3:35:56 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\021-028_5A4B.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

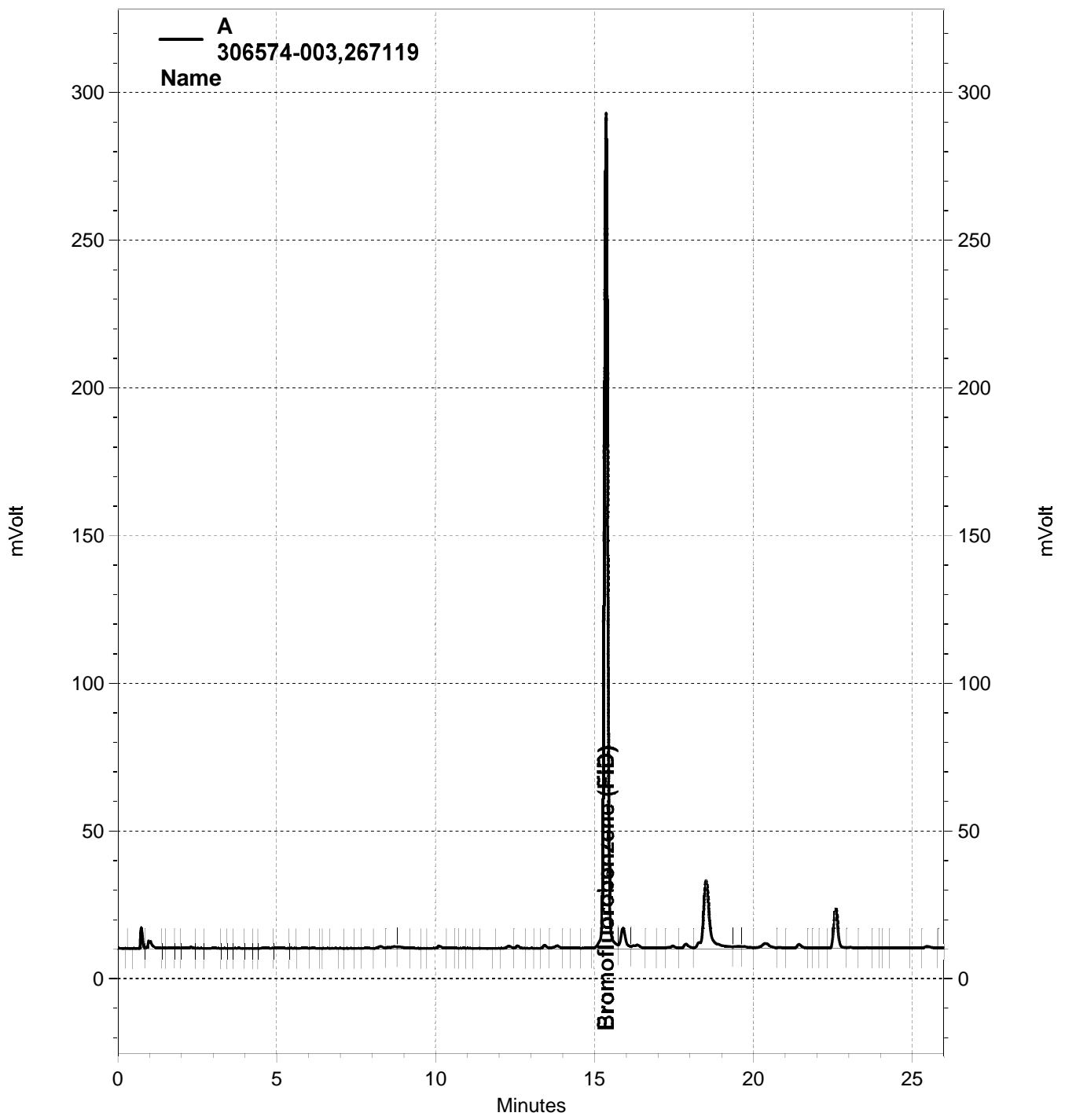
Inst : GC07 Lab ID : 306574-003 Client ID : BR11-1GW03
 Seqnum : 329030801029 Matrix : Water Acct : TRC-SF (MJD)
 File : 021_029 Batch : 267119 Time : 22-JAN-2019 03:45
 Cal : 329026478001 Caldate : 19-JAN-2019
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	416.3	83	50	20	u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	858.8	180.0	171.8	95	80-120	u

ALE: 01/22/19 * JM2: 01/22/19 EAH: 01/23/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-029, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
Sample Name: 306574-003,267119
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-029
Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
Run Date: 1/22/2019 3:45:44 AM
Analysis Date: 1/22/2019 4:14:27 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	2072834	858.845
GAS:6-10			238617	124.877
GAS:6-12			845918	348.481
GAS:7-12			820451	416.331
JP4:7-12			820451	218.834
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.183	2.133	8858	5.307
Benzene	4.667	4.683	3007	0.385
Toluene		8.500		0.000 BDL
Ethylbenzene	12.317	12.350	6939	1.112
m,p-Xylenes	12.583	12.567	10867	1.559
o-Xylene		13.683		0.000 BDL
Bromofluorobenzene (PID)	15.367	15.350	5096933	853.711

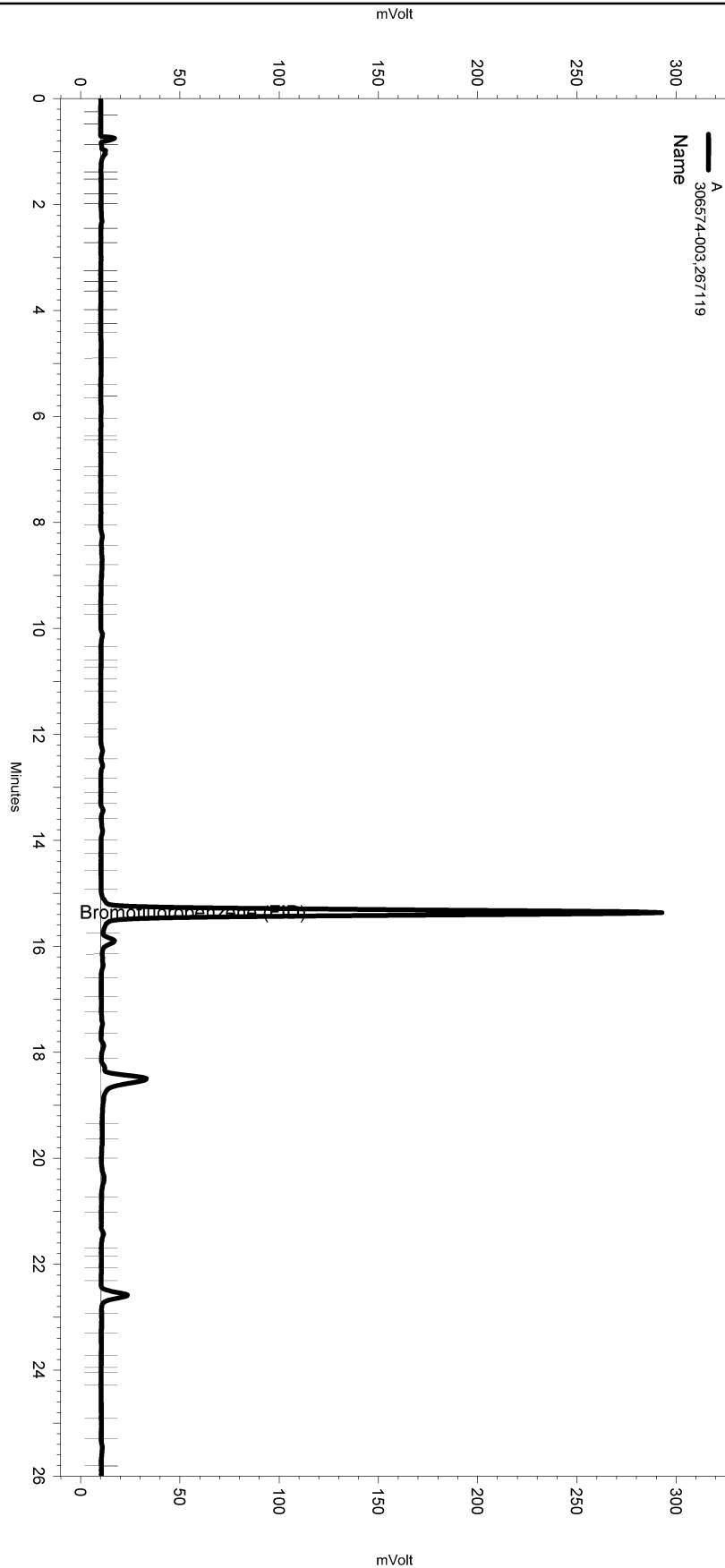
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	2.000	4794	2.821
Benzene	3.533	3.500	5012	0.616
Toluene		6.883		0.000 BDL
Ethylbenzene	10.599	10.599	4712	0.793
m,p-Xylenes	10.949	10.949	10370	1.380
o-Xylene	11.783	11.799	14664	1.951
Bromofluorobenzene (PID)	12.699	12.699	5872029	901.373

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: 306574-003,267119
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-029
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/22/2019 3:45:44 AM
 Analysis Date: 1/22/2019 4:14:27 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\021-029_5A4C.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

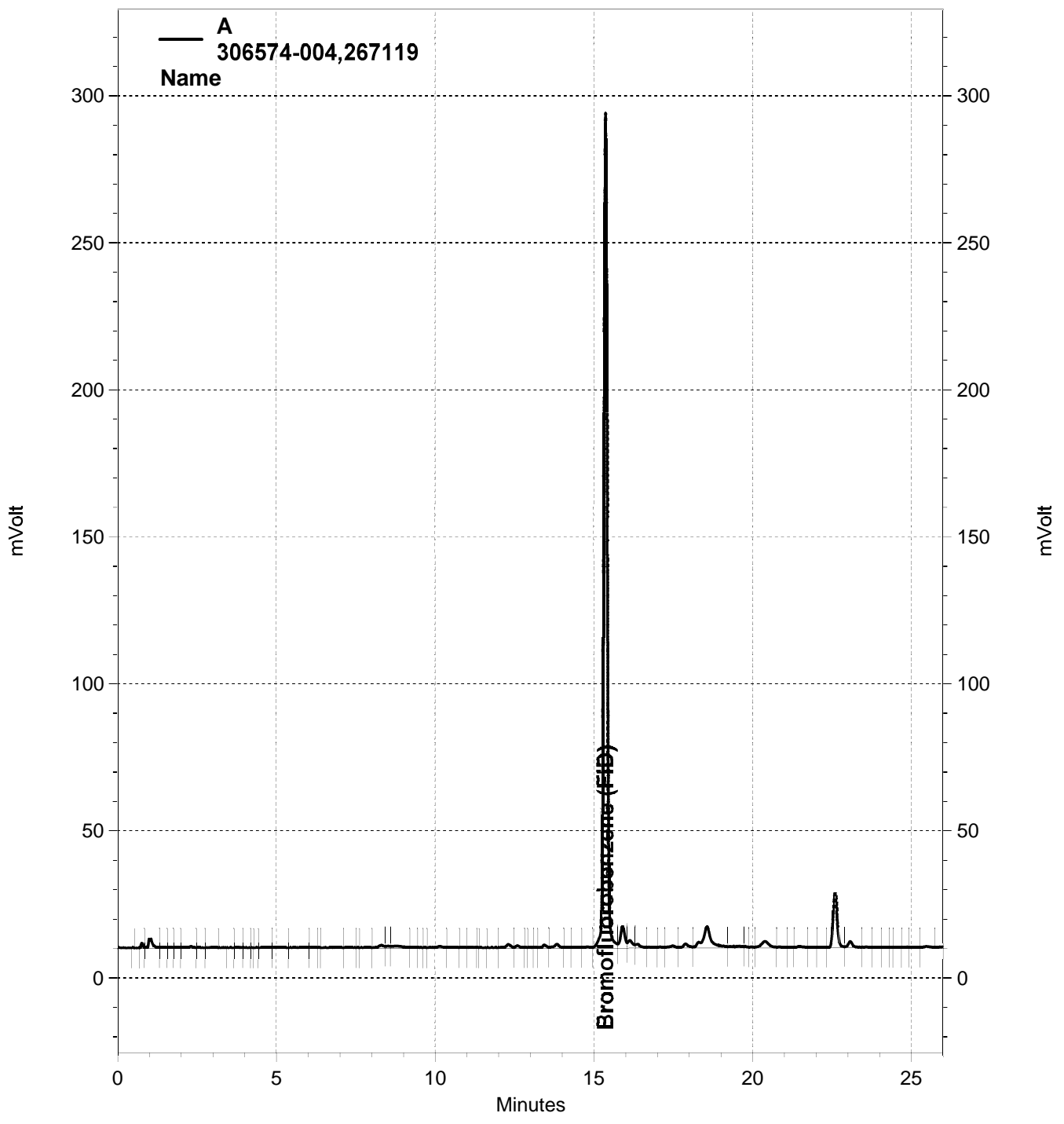
Inst : GC07 Lab ID : 306574-004 Client ID : DUP01182019-01
 Seqnum : 329030801032 Matrix : Water Acct : TRC-SF (MJD)
 File : 021_032 Batch : 267119 Time : 22-JAN-2019 05:41
 Cal : 329026478001 Caldate : 19-JAN-2019
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	362.5	72	50	20	u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	867.9	180.0	173.6	96	80-120	u

Analyst: ALE Date: 01/22/19 Reviewer: EAH Date: 01/22/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-032, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: 306574-004,267119
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-032
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/22/2019 5:41:09 AM
 Analysis Date: 1/22/2019 6:09:51 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	2094651	867.884
GAS:6-10			276080	144.483
GAS:6-12			733535	302.184
GAS:7-12			714311	362.471
JP4:7-12			714311	190.524
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.183	2.133	7137	4.276
Benzene	4.683	4.683	1978	0.253
Toluene	8.517	8.500	7013	0.971
Ethylbenzene	12.317	12.350	8929	1.431
m,p-Xylenes	12.600	12.567	8407	1.206
o-Xylene		13.683		0.000 BDL
Bromofluorobenzene (PID)	15.367	15.350	5192776	869.764

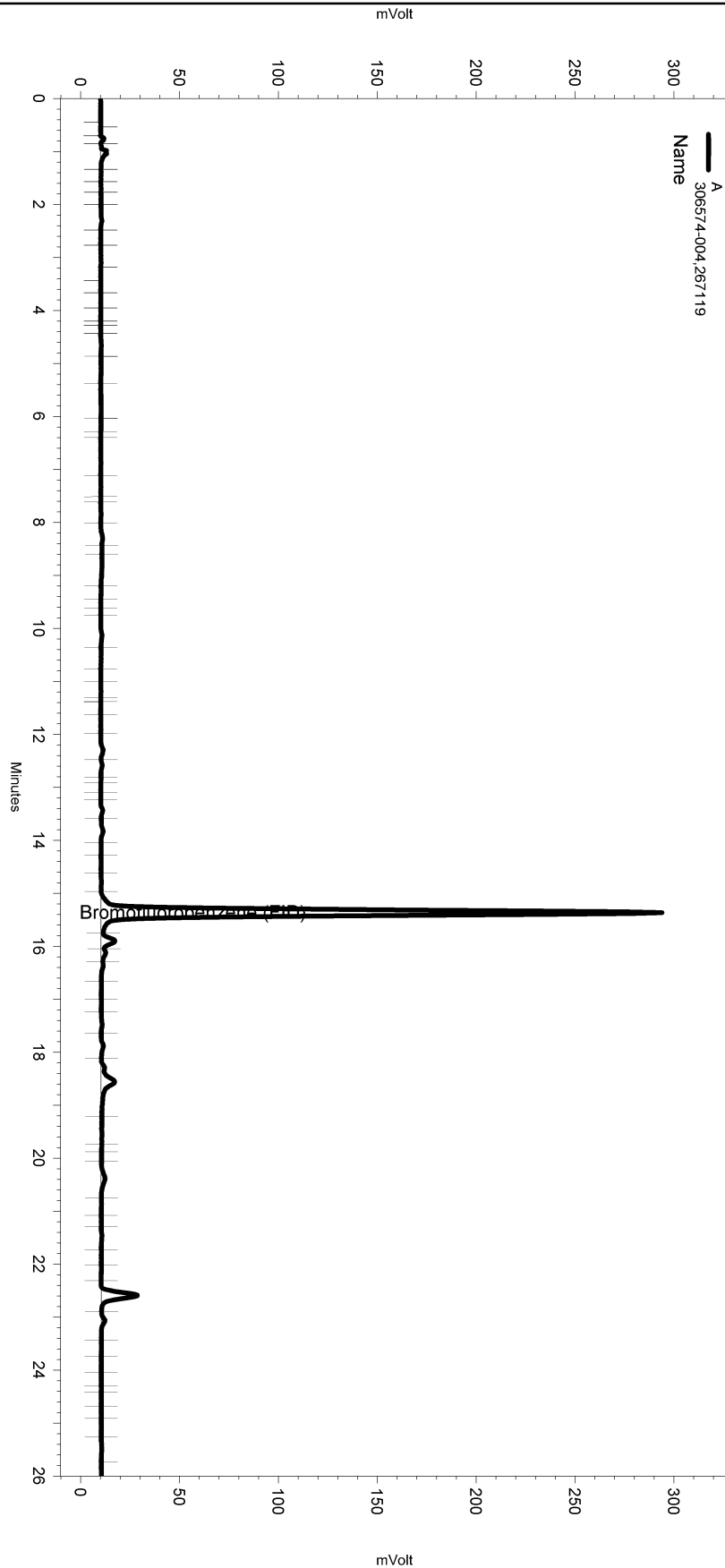
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	2.000	3449	2.029
Benzene		3.500		0.000 BDL
Toluene		6.883		0.000 BDL
Ethylbenzene	10.616	10.599	5691	0.957
m,p-Xylenes	10.949	10.949	13055	1.737
o-Xylene	11.733	11.799	24366	3.243
Bromofluorobenzene (PID)	12.699	12.699	5904602	906.373

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: 306574-004,267119
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-032
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbx018.met

Software Version 3.1.7
 Run Date: 1/22/2019 5:41:09 AM
 Analysis Date: 1/22/2019 6:09:51 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\021-032_5A4F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

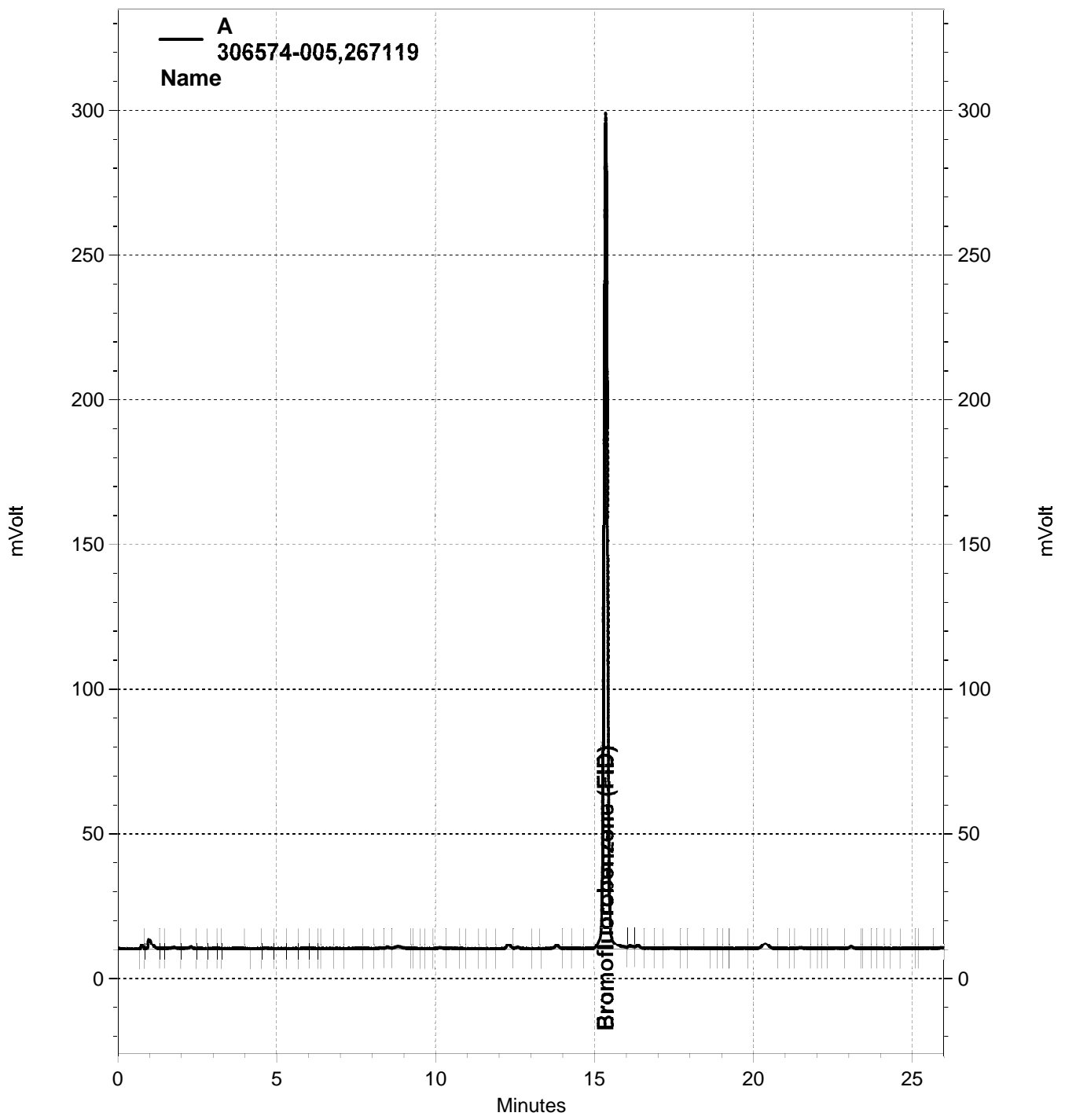
Inst : GC07 Lab ID : 306574-005 Client ID : TB01182019
 Seqnum : 329030801020 Matrix : Water Acct : TRC-SF (MJD)
 File : 021_020 Batch : 267119 Time : 21-JAN-2019 21:59
 Cal : 329026478001 Caldate : 19-JAN-2019
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Raw	Result	RL	Blank	Flags
Gasoline C7-C12	A	114.9	ND	50	20	u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	894.6	180.0	178.9	99	80-120	u

Analyst: ALE Date: 01/22/19 Reviewer: EAH Date: 01/22/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-020, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: 306574-005,267119
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-020
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/21/2019 9:59:39 PM
 Analysis Date: 1/21/2019 10:28:22 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	2159082	894.580
GAS:6-10			160414	83.950
GAS:6-12			246825	101.681
GAS:7-12			226486	114.928
JP4:7-12			226486	60.409
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.200	2.133	8166	4.893
Benzene	4.683	4.683	5602	0.717
Toluene	8.500	8.500	10143	1.404
Ethylbenzene	12.300	12.350	12512	2.005
m,p-Xylenes	12.583	12.567	9628	1.381
o-Xylene		13.683		0.000 BDL
Bromofluorobenzene (PID)	15.350	15.350	5366357	898.838

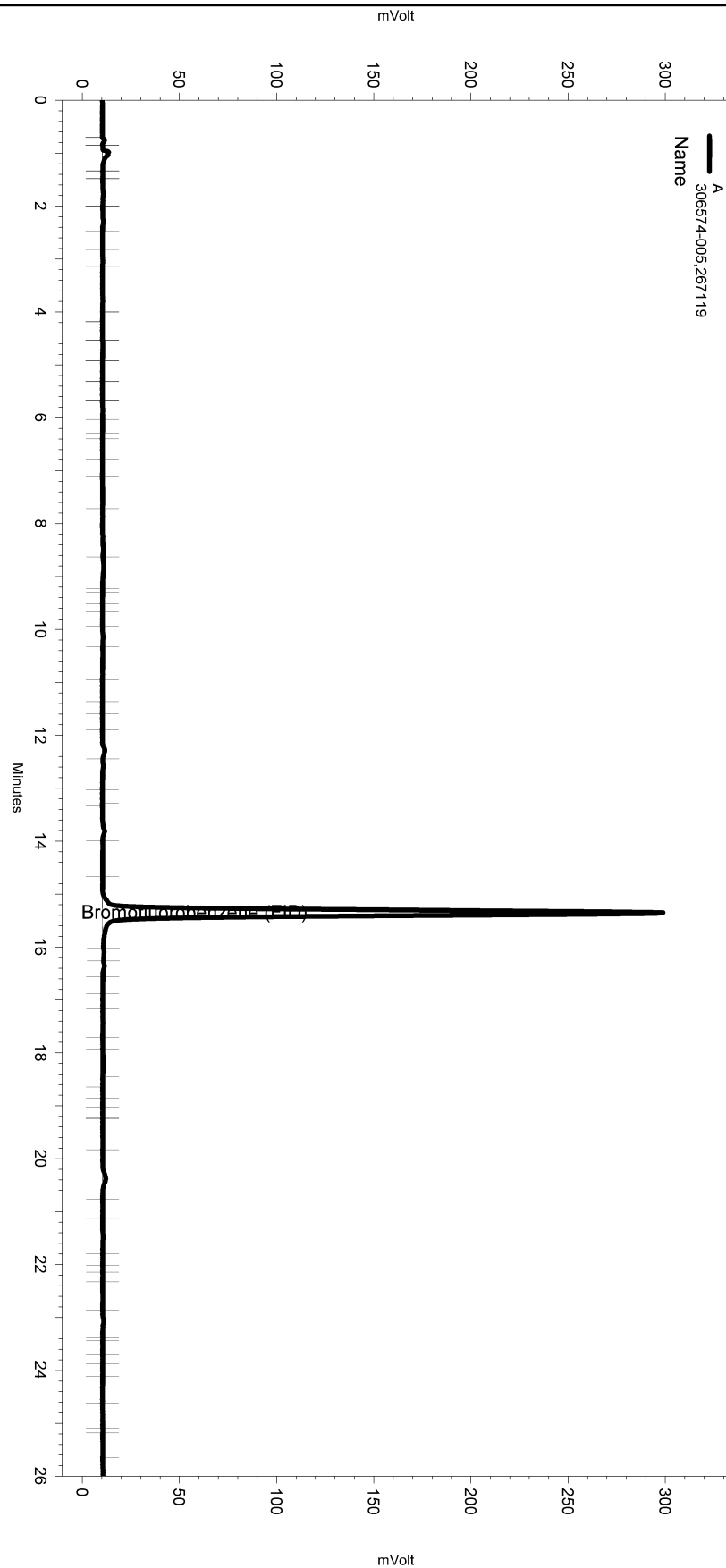
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.067	2.000	10443	6.145
Benzene	3.566	3.500	10790	1.327
Toluene		6.883		0.000 BDL
Ethylbenzene	10.616	10.599	6052	1.018
m,p-Xylenes	10.966	10.949	11492	1.529
o-Xylene		11.799		0.000 BDL
Bromofluorobenzene (PID)	12.683	12.699	6015641	923.418

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: 306574-005,267119
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-020
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbx018.met

Software Version 3.1.7
 Run Date: 1/21/2019 9:59:39 PM
 Analysis Date: 1/21/2019 10:28:22 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\021-020_5A43.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

QC Raw Data

ENTHALPY BLANK USER REPORT FOR 306574 GCVOA Water
EPA 8015B

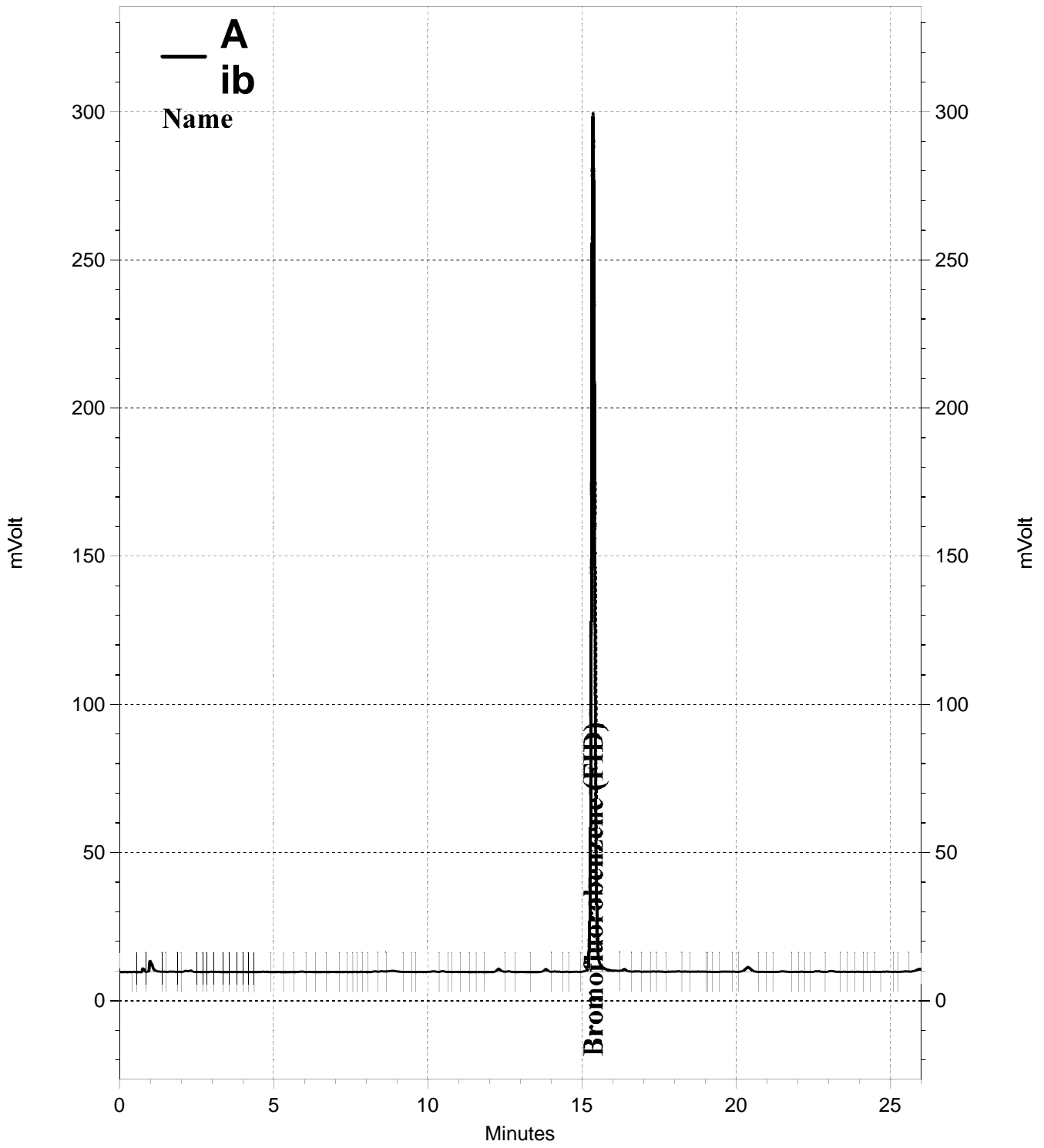
Inst : GC07 Lab ID : QC962049
 Seqnum : 329030801007.3 Matrix : Water
 File : 021_007 Batch : 267119 Time : 21-JAN-2019 13:40
 Cal : 329026478001 Caldate : 19-JAN-2019
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Raw	Result	RL	Flags
Gasoline C7-C12	A	97.67	ND	50	u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	874.1	180.0	174.8	97	80-120	u

Analyst: JM2 Date: 01/22/19 Reviewer: EAH Date: 01/23/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-007, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: **ib**
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-007
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/21/2019 1:40:56 PM
 Analysis Date: 1/21/2019 2:09:39 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	2109709	874.123
GAS:6-10			124259	65.029
GAS:6-12			214638	88.421
GAS:7-12			192471	97.668
JP4:7-12			192471	51.337
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.183	2.133	4003	2.398
Benzene	4.683	4.683	1589	0.203
Toluene	8.517	8.500	2684	0.372
Ethylbenzene	12.300	12.350	7736	1.240
m,p-Xylenes	12.600	12.567	2979	0.427
o-Xylene		13.683		0.000 BDL
Bromofluorobenzene (PID)	15.367	15.350	5202633	871.415

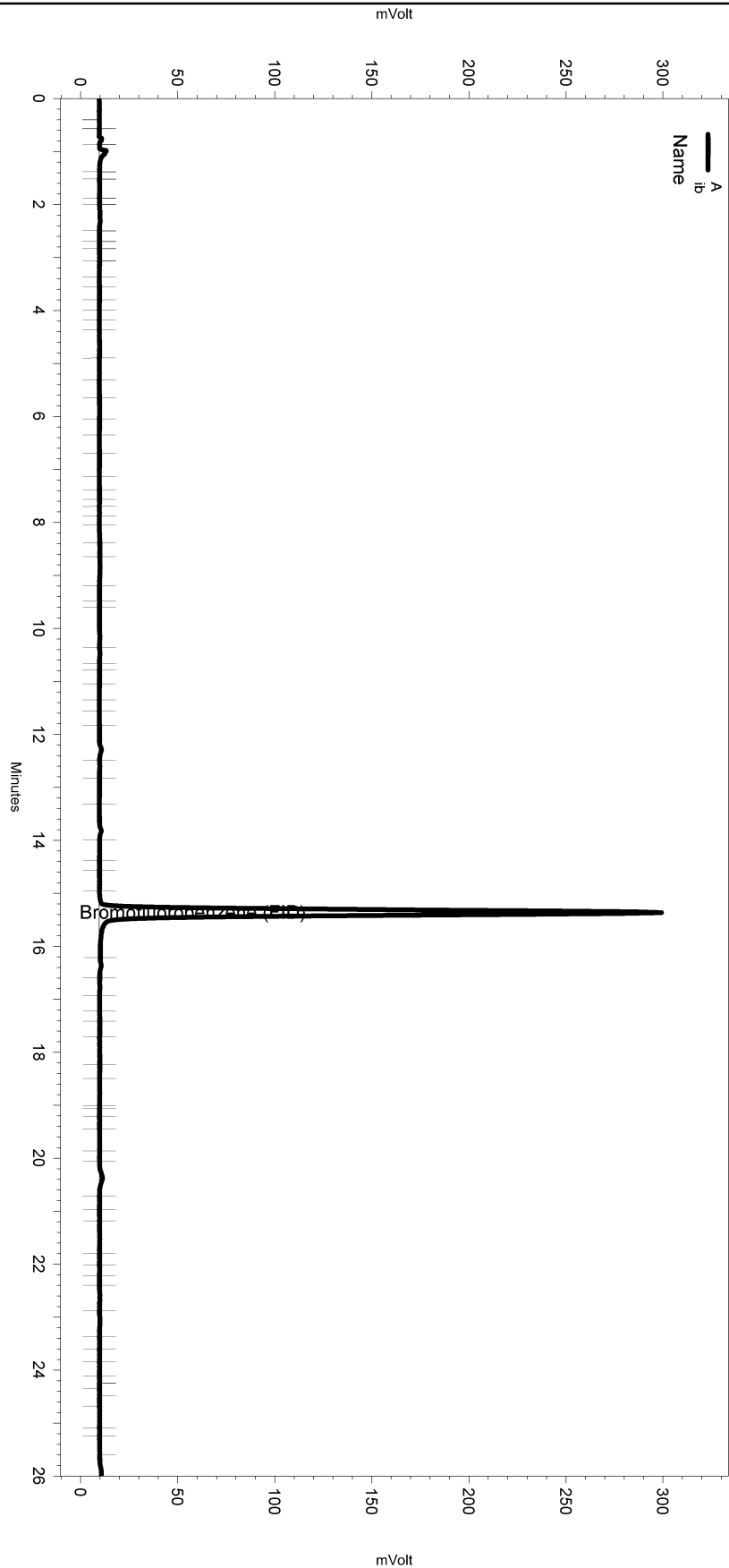
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.000		0.000 BDL
Benzene	3.516	3.500	11107	1.366
Toluene		6.883		0.000 BDL
Ethylbenzene	10.649	10.599	9951	1.674
m,p-Xylenes	10.966	10.949	8028	1.068
o-Xylene	11.733	11.799	23554	3.135
Bromofluorobenzene (PID)	12.683	12.699	5939247	911.691

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: **ib**
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-007
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/21/2019 1:40:56 PM
 Analysis Date: 1/21/2019 2:09:39 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\021-007_5A36.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

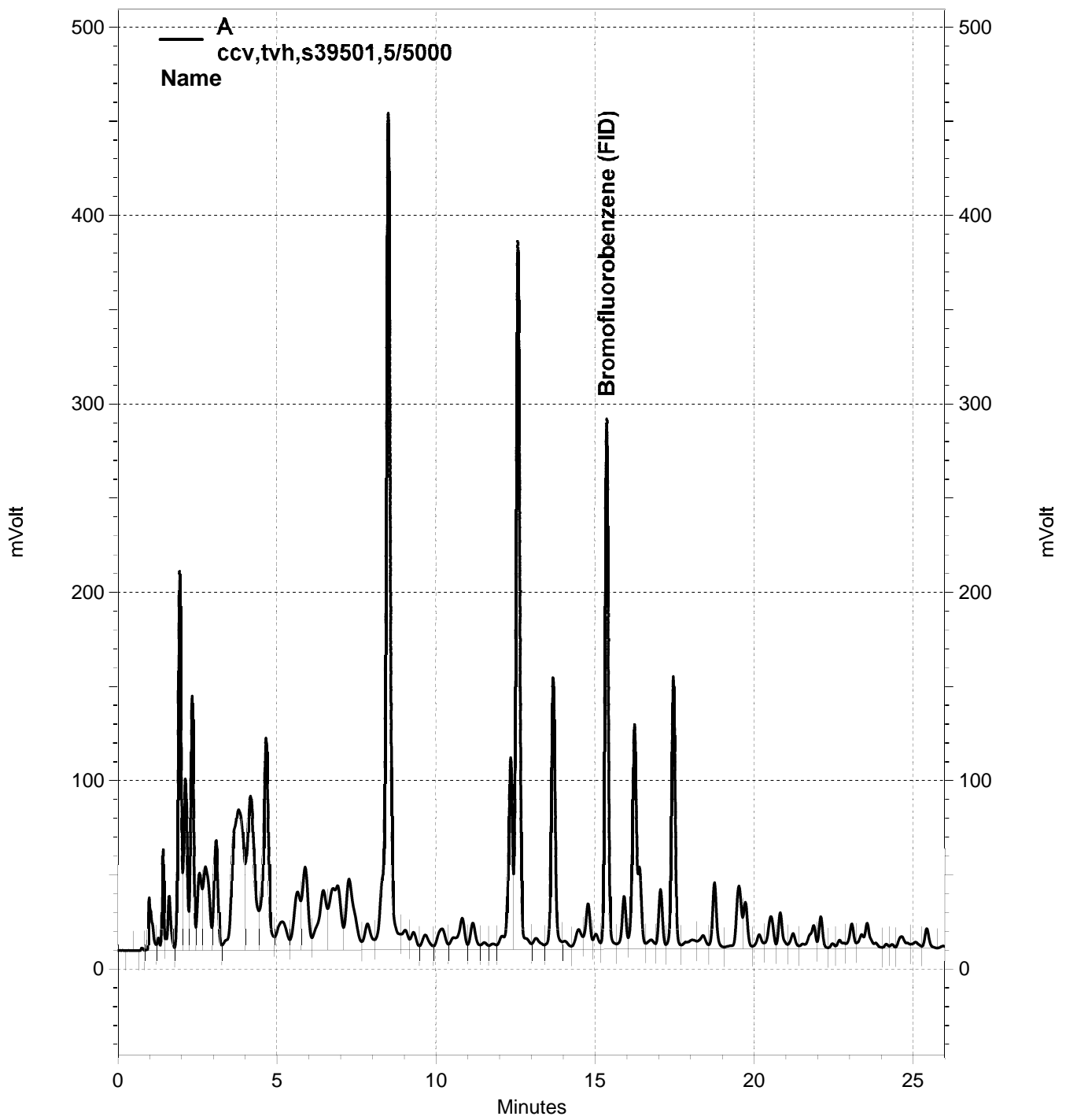
ENTHALPY SPIKE USER REPORT FOR 306574 GCVOA Water
EPA 8015B

Type : CCV/LCS
 Inst : GC07
 Seqnum : 329030801017.5
 File : 021_017
 IDF : 1.0
 PDF : 1.0
 Lab ID : QC962105
 Matrix : Water
 Batch : 267119
 Time : 21-JAN-2019 20:04
 Cal : 329026478001
 Units : ug/L

Analyte	Spiked	Raw	CCV/LCS	Ch	%Rec	Limits	Flags
Gasoline C7-C12	2000	10990	2198	A	110	80-120	u
Bromofluorobenzene (FID)	180.0	848.3	169.7	A	94	80-120	u

Analyst: JM2 Date: 01/22/19 Reviewer: EAH Date: 01/23/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-017, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: ccv,tvh,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-017
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/21/2019 8:04:42 PM
 Analysis Date: 1/21/2019 8:33:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	2047345	848.284
GAS:6-10			22105738	11568.731
GAS:6-12			27195504	11203.339
GAS:7-12			21657100	10989.721
JP4:7-12			21657100	5776.460
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.133	92677	55.529
Benzene	4.683	4.683	784582	100.431
Toluene	8.500	8.500	4914035	680.211
Ethylbenzene	12.350	12.350	883156	141.541
m,p-Xylenes	12.583	12.567	4032436	578.341
o-Xylene	13.683	13.683	1374759	203.595
Bromofluorobenzene (PID)	15.367	15.350	5047988	845.513

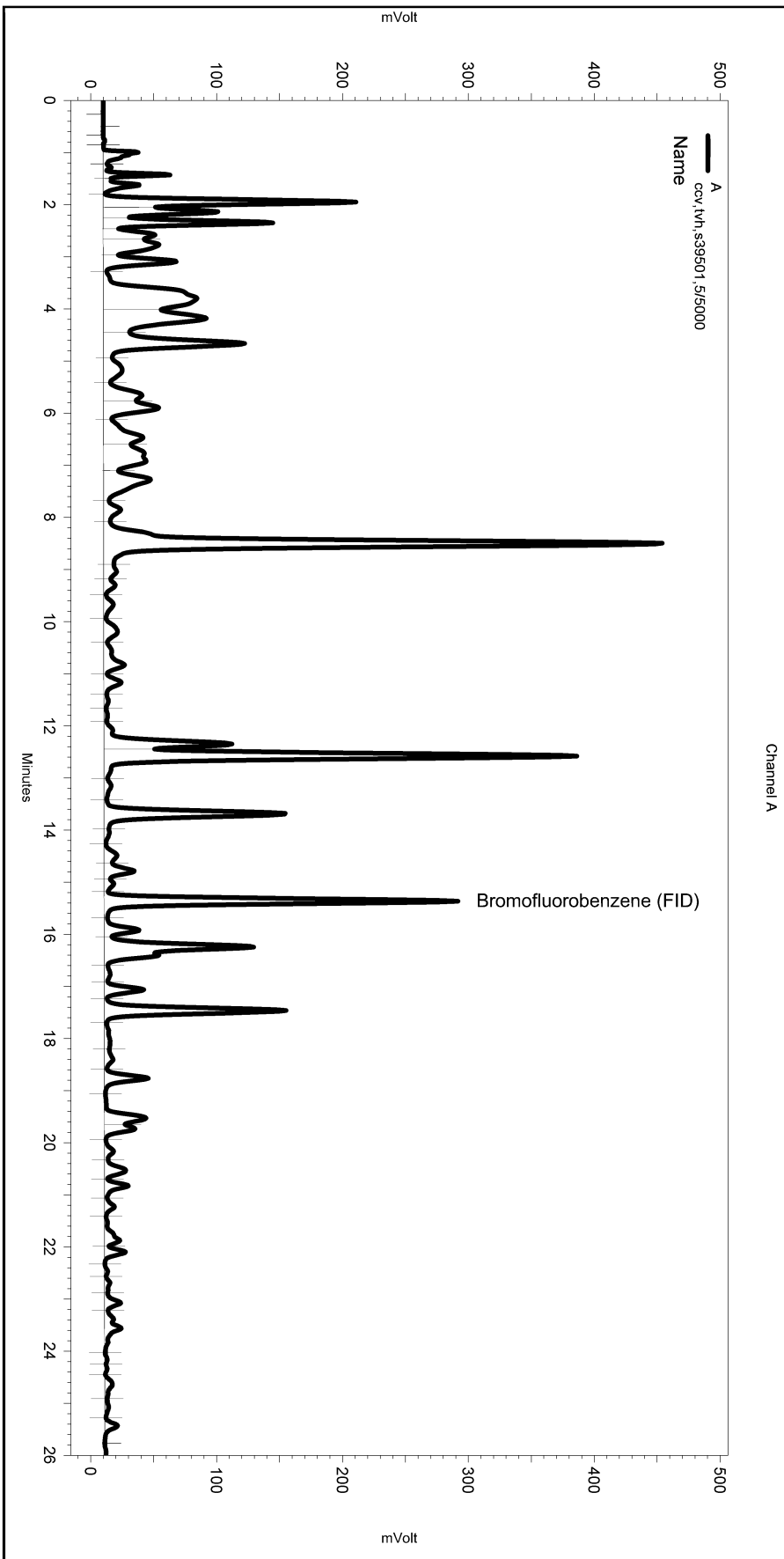
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.950	2.000	29275	17.226
Benzene	3.533	3.500	820604	100.889
Toluene	6.950	6.883	5868452	785.936
Ethylbenzene	10.583	10.599	941956	158.464
m,p-Xylenes	10.916	10.949	4759469	633.228
o-Xylene	11.783	11.799	1533919	204.135
Bromofluorobenzene (PID)	12.683	12.699	5744223	881.755

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: ccv,tvh,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-017
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/21/2019 8:04:42 PM
 Analysis Date: 1/21/2019 8:33:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\021-017_5A40.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

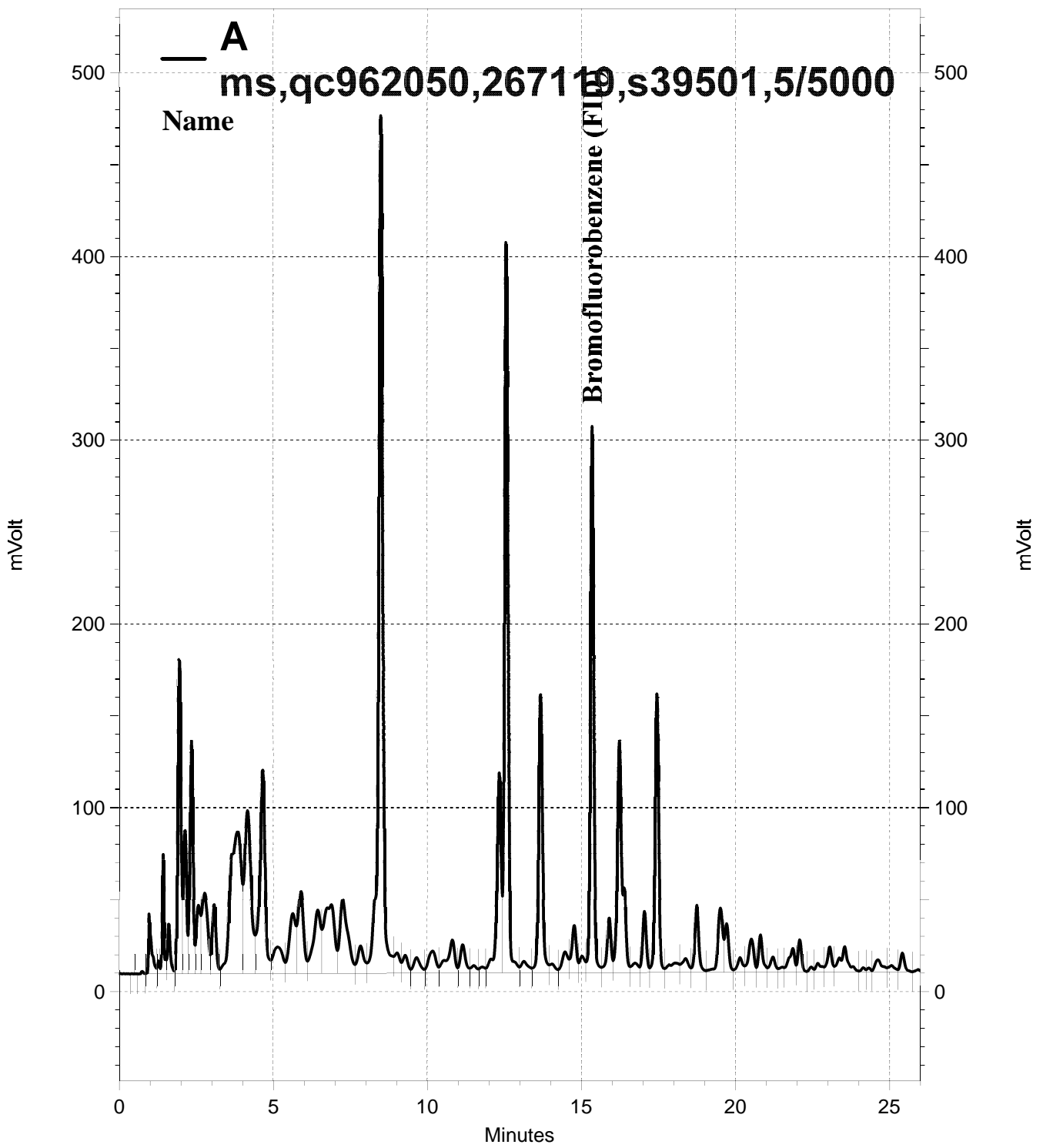
ENTHALPY SPIKE USER REPORT FOR 306574 GCVOA Water
EPA 8015B

Type : MSS	Type : MS	Type : MSD
Inst : GC07	Inst : GC07	Inst : GC07
Seqnum : 329030801012	Seqnum : 329030801013.3	Seqnum : 329030801014.3
File : 021_012	File : 021_013	File : 021_014
IDF : 1.0	IDF : 1.0	IDF : 1.0
PDF : 1.0	PDF : 1.0	PDF : 1.0
Lab ID : 306563-001	Lab ID : QC962050	Lab ID : QC962051
Matrix : Water	Matrix : Water	Matrix : Water
Batch : 267119	Batch : 267119	Batch : 267119
Time : 21-JAN-2019 16:53	Time : 21-JAN-2019 17:31	Time : 21-JAN-2019 18:09
Cal : 329026478001	Cal : 329026478001	Cal : 329026478001
Units : ug/L		

Analyte	MSS			MS		MS		MSD			MSD		Limits	RPD	Lim	Flags
	MSS	Ch	Spiked	Raw	Result	Ch	%Rec	Raw	Result	Ch	%Rec					
Gasoline C7-C12	18.06	A	2000	11650	2330	A	116	11610	2321	A	115	78-120	0	20	u	
Bromofluorobenzene (FID)			180.0	905.2	181.0	A	101	857.0	171.4	A	95	80-120			u	

Analyst: JM2 Date: 01/22/19 Reviewer: EAH Date: 01/23/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-013, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: ms,qc962050,267119,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-013
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/21/2019 5:31:29 PM
 Analysis Date: 1/21/2019 6:00:11 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	2184793	905.233
GAS:6-10			23004168	12038.912
GAS:6-12			28407784	11702.743
GAS:7-12			22958860	11650.286
JP4:7-12			22958860	6123.669
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.100	2.133	64448	38.615
Benzene	4.683	4.683	749323	95.917
Toluene	8.483	8.500	5162294	714.576
Ethylbenzene	12.333	12.350	948966	152.088
m,p-Xylenes	12.567	12.567	4239708	608.068
o-Xylene	13.667	13.683	1467056	217.264
Bromofluorobenzene (PID)	15.350	15.350	5405146	905.335

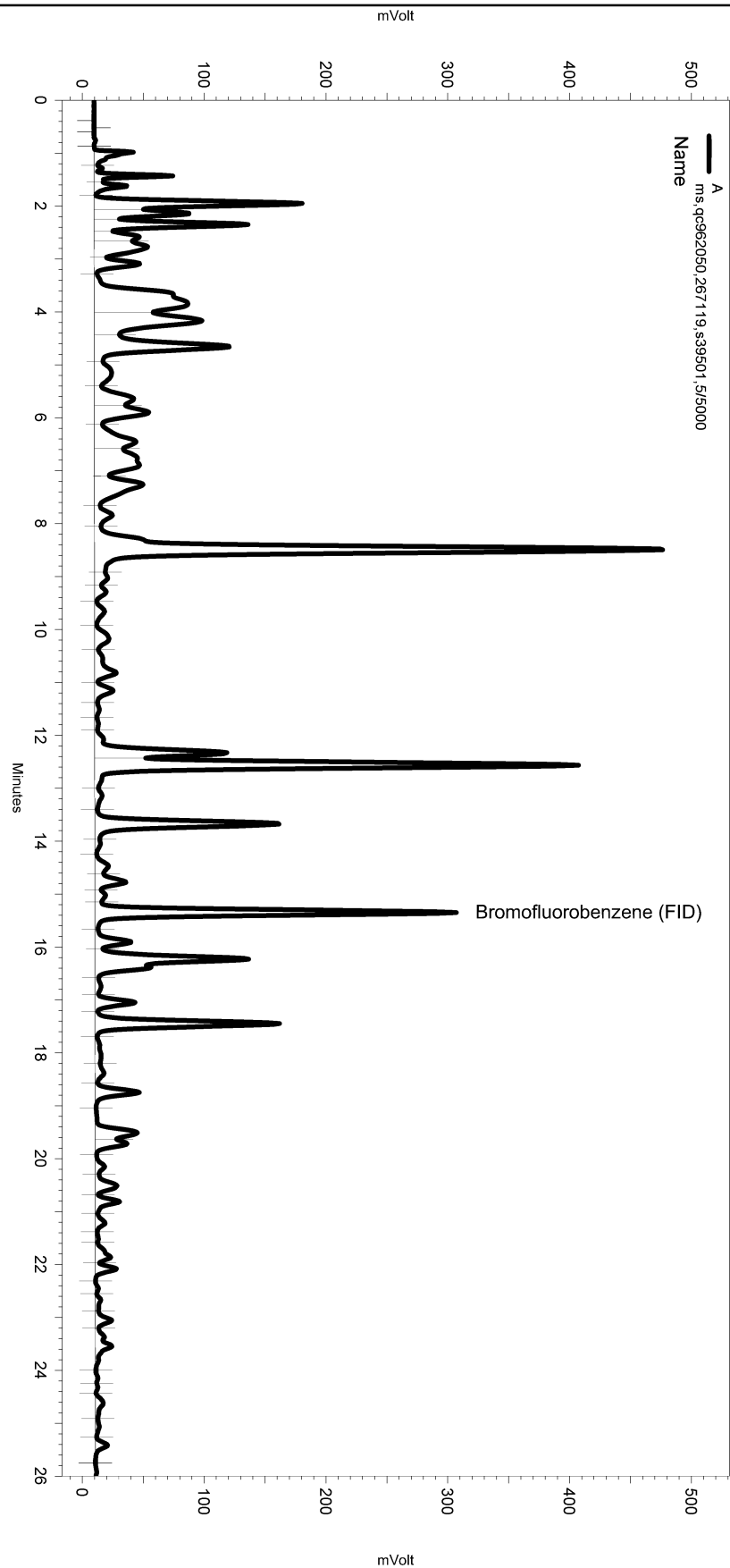
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.967	2.000	19511	11.480
Benzene	3.550	3.500	728607	89.579
Toluene	6.950	6.883	6147420	823.297
Ethylbenzene	10.566	10.599	996542	167.647
m,p-Xylenes	10.916	10.949	4995450	664.624
o-Xylene	11.783	11.799	1620212	215.619
Bromofluorobenzene (PID)	12.683	12.699	6017217	923.660

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: ms,qc962050,267119,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-013
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbx018.met

Software Version 3.1.7
 Run Date: 1/21/2019 5:31:29 PM
 Analysis Date: 1/21/2019 6:00:11 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

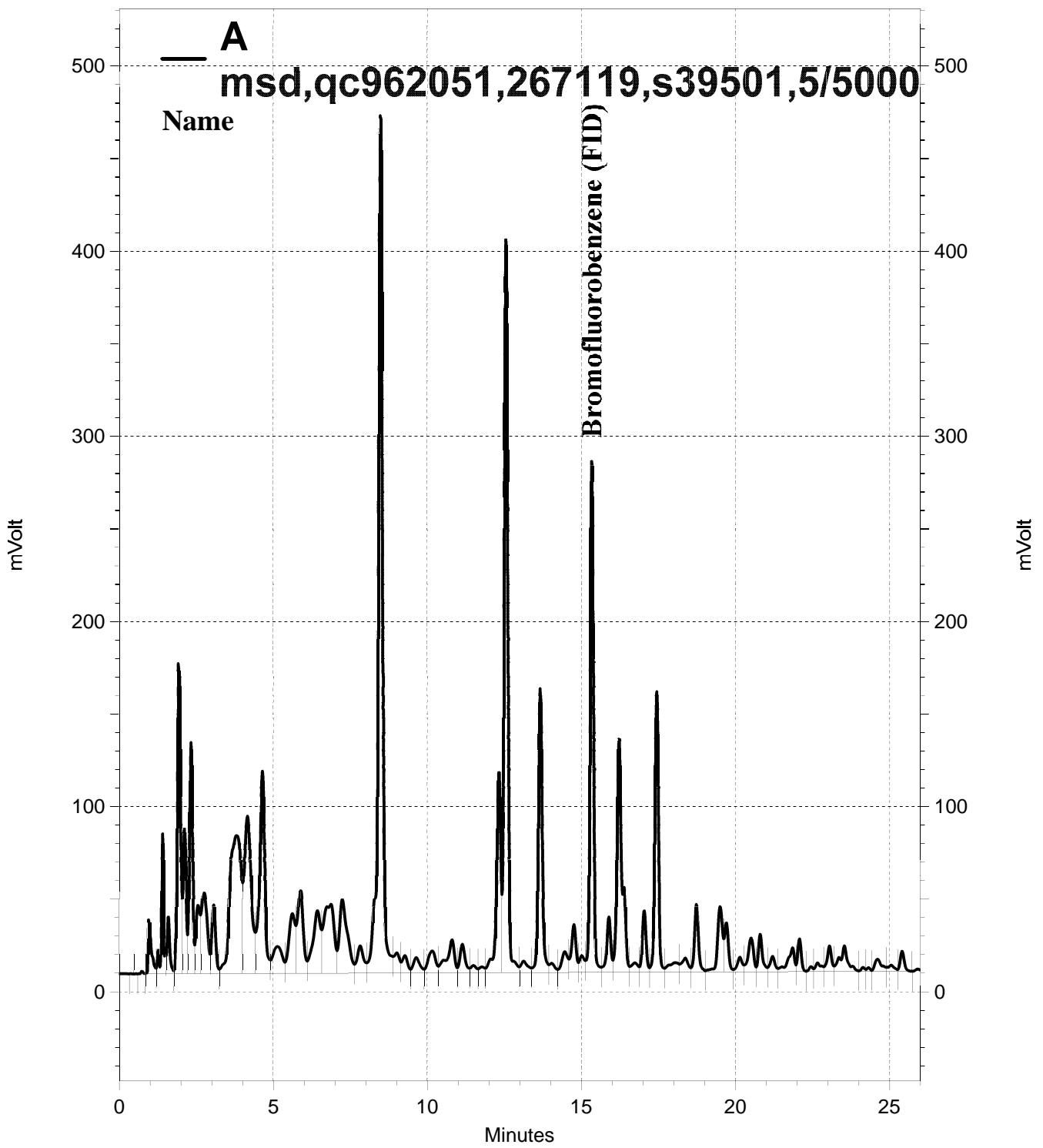
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\021-013_5A3C.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-014, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: msd,qc962051,267119,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-014
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/21/2019 6:09:43 PM
 Analysis Date: 1/21/2019 6:38:23 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.383	2068285	856.960
GAS:6-10			22898782	11983.760
GAS:6-12			28297216	11657.193
GAS:7-12			22873396	11606.915
JP4:7-12			22873396	6100.872
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.100	2.133	63230	37.885
Benzene	4.667	4.683	742955	95.102
Toluene	8.483	8.500	5186815	717.970
Ethylbenzene	12.333	12.350	941989	150.970
m,p-Xylenes	12.550	12.567	4295613	616.086
o-Xylene	13.667	13.683	1496826	221.672
Bromofluorobenzene (PID)	15.333	15.350	5217297	873.871

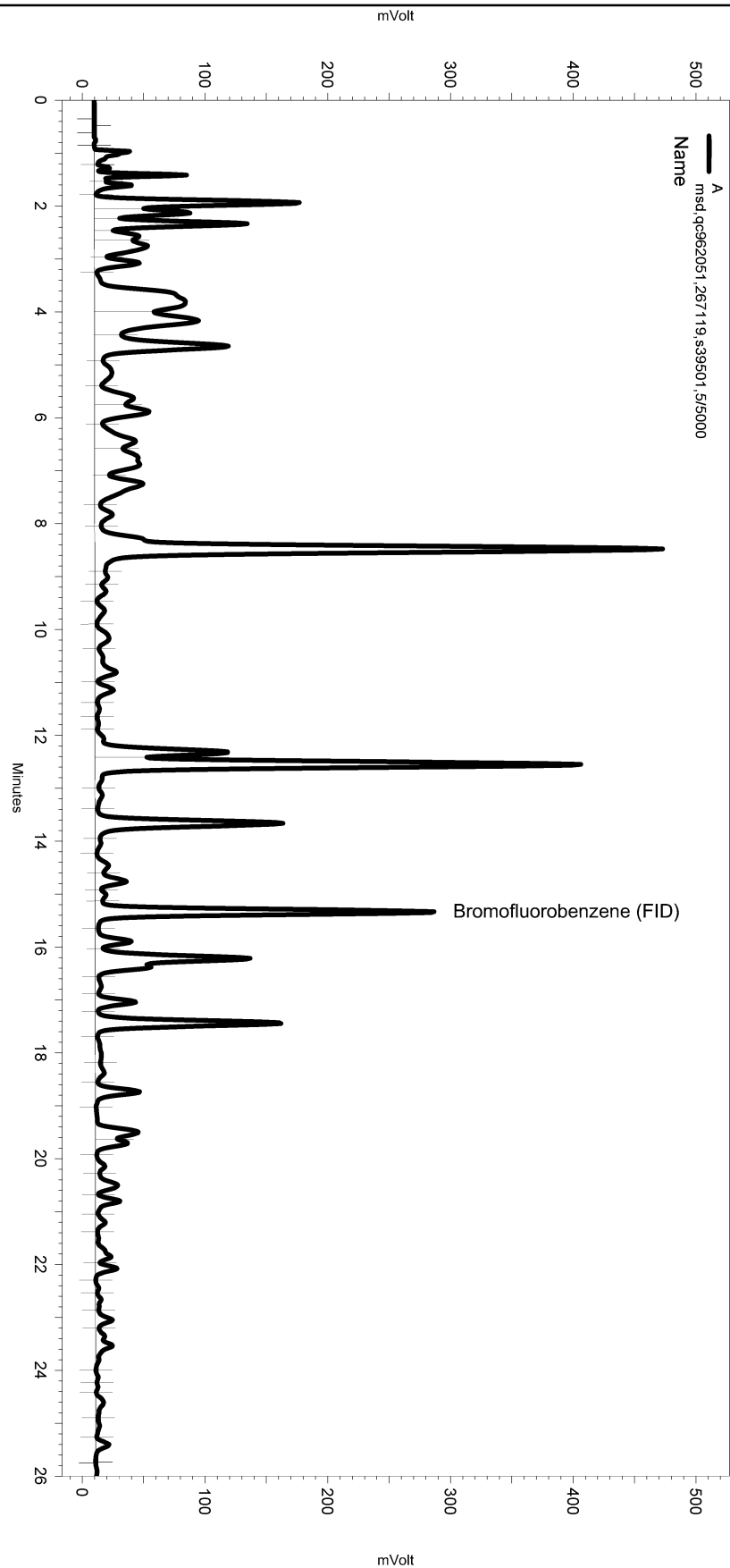
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.967	2.000	15266	8.983
Benzene	3.550	3.500	715474	87.964
Toluene	6.950	6.883	6216019	832.484
Ethylbenzene	10.566	10.599	996878	167.704
m,p-Xylenes	10.916	10.949	5009117	666.443
o-Xylene	11.783	11.799	1641340	218.431
Bromofluorobenzene (PID)	12.683	12.699	5676504	871.359

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: msd,qc962051,267119,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-014
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/21/2019 6:09:43 PM
 Analysis Date: 1/21/2019 6:38:23 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



---< General Method Parameters >-----

No items selected for this section

---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\021-014_5A3D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 306574 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 329026478001
 Units : ng

Name : TVH_018
 Date : 19-JAN-2019 02:53
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	018_025	329026478025	TVH_14	19-JAN-2019 02:53	S39162 (1000X), S39307 (5000X)
L2	018_026	329026478026	TVH_15	19-JAN-2019 03:32	S39161 (1000X), S39307 (5000X)
L3	018_027	329026478027	TVH_16	19-JAN-2019 04:10	S39160 (1000X), S39307 (5000X)
L4	018_028	329026478028	TVH_17	19-JAN-2019 04:48	S39159 (2000X), S39307 (5000X)
L5	018_029	329026478029	TVH_18	19-JAN-2019 05:27	S39159 (1000X), S39307 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	2467.5	1823.6	1845.3	1786.8	1930.2	AVRG		5.07E-4		1970.7	14	0.995	20	
Bromofluorobenzene (FID)	A	2296.8	2360.2	2386.8	2424.3	2599.4	AVRG		4.14E-4		2413.5	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	25	2500.0	-7	10000	-6	25000	-9	50000	-2
Bromofluorobenzene (FID)	A	900.00	-5	900.00	-2	900.00	-1	900.00	0	900.00	8

Analyst: JM2

Date: 01/21/19

Reviewer: EAH

Date: 01/21/19

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 329026478001

Name : TVH_018
Cal Date : 19-JAN-2019

ICV 329026478031 (018_031 19-JAN-2019) stds: S39163 (1000X), S39307 (5000X)

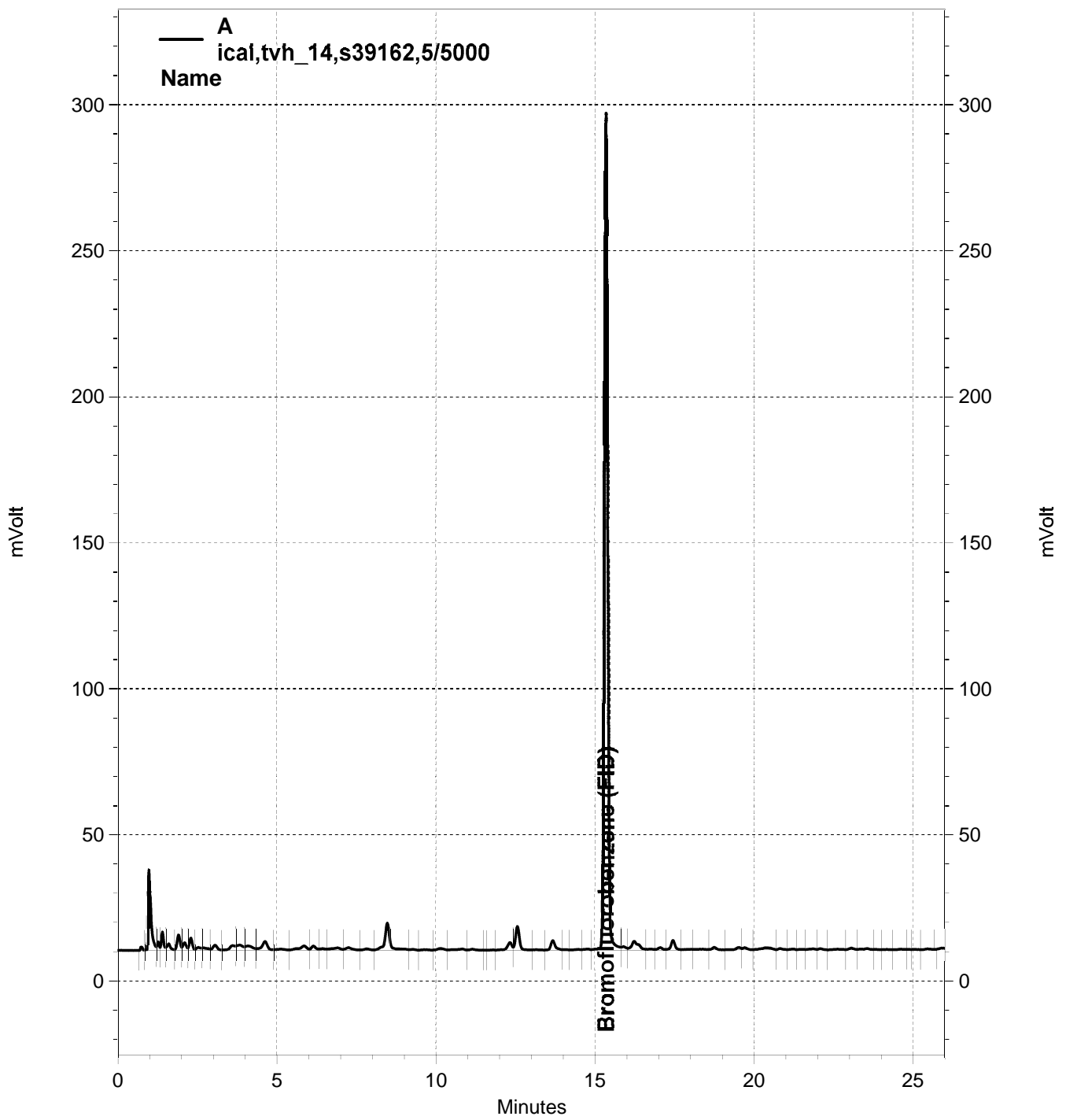
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	8526	ng	-15	15	

Analyst: ALE

Date: 01/21/19

Reviewer: EAH

Date: 01/21/19



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-025, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: ical,tvh_14,s39162,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-025
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX018.met

Software Version 3.1.7
 Run Date: 1/19/2019 2:53:29 AM
 Analysis Date: 1/21/2019 10:56:38 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07
TVH Instrument Results
 Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	2067144	900.000 CAL
GAS:6-10			570617	250.000 CAL
GAS:6-12			756071	250.000 CAL
GAS:7-12			616871	250.000 CAL
JP4:7-12			616871	0.000 CAL
?			0	0.000 CAL

BTXE Instrument Results
 Channel B: RTX-502.2 PID

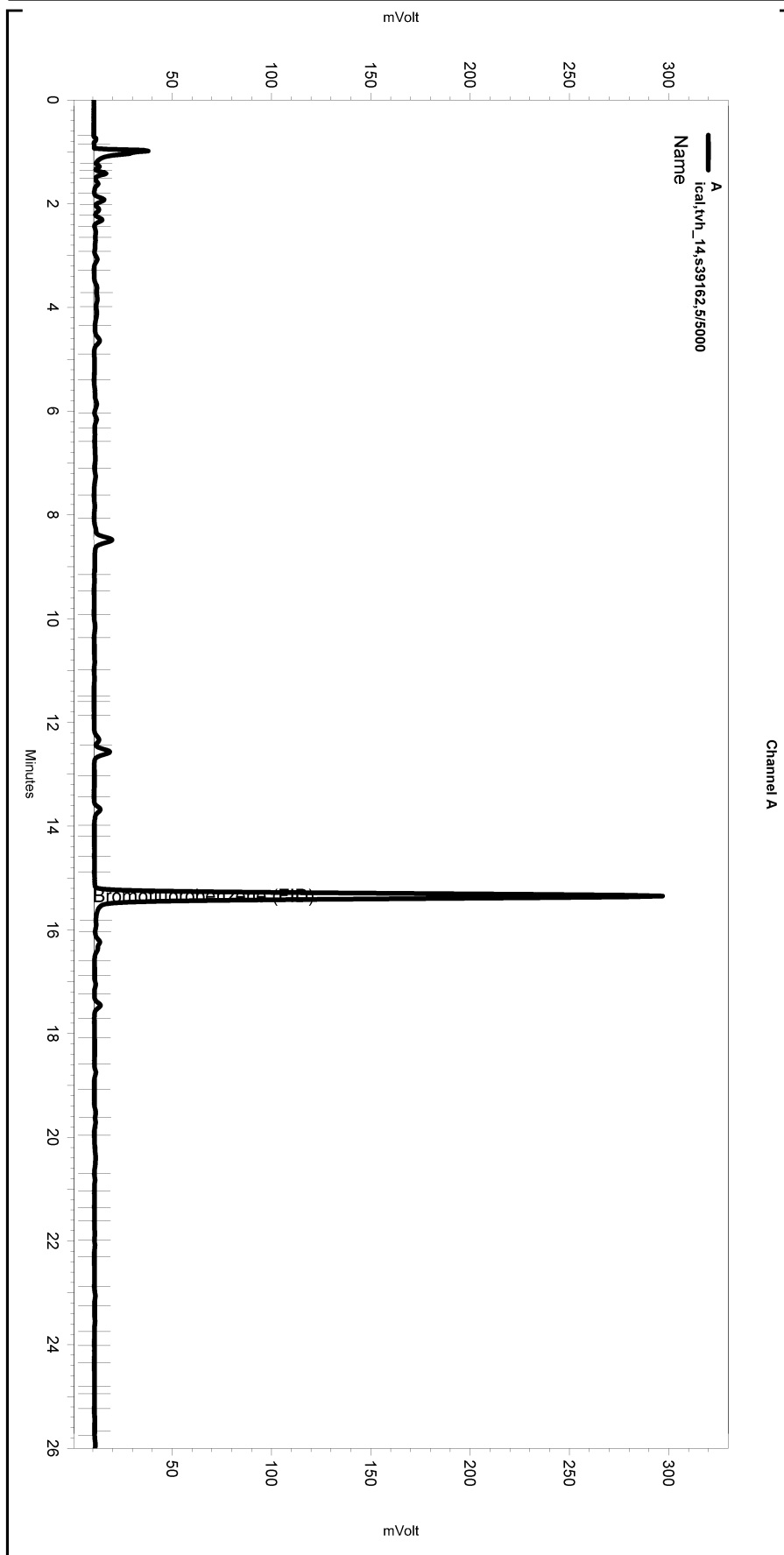
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.100	2.133	5688	0.000 CAL
Benzene	4.667	4.683	26856	0.000 CAL
Toluene	8.483	8.500	137918	0.000 CAL
Ethylbenzene	12.350	12.350	37384	0.000 CAL
m,p-Xylenes	12.567	12.567	100170	0.000 CAL
o-Xylene	13.683	13.683	48822	0.000 CAL
Bromofluorobenzene (PID)	15.350	15.350	5159388	0.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.067	2.000	8586	0.000 CAL
Benzene	3.533	3.500	19644	0.000 CAL
Toluene	6.933	6.883	108955	0.000 CAL
Ethylbenzene		10.516		0.000 BDL
m,p-Xylenes	10.933	10.949	91803	0.000 CAL
o-Xylene	11.783	11.716	43176	0.000 CAL
Bromofluorobenzene (PID)	12.683	12.699	5971950	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: ical,tvh_14,s39162,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-025
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/19/2019 2:53:29 AM
 Analysis Date: 1/21/2019 10:56:38 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

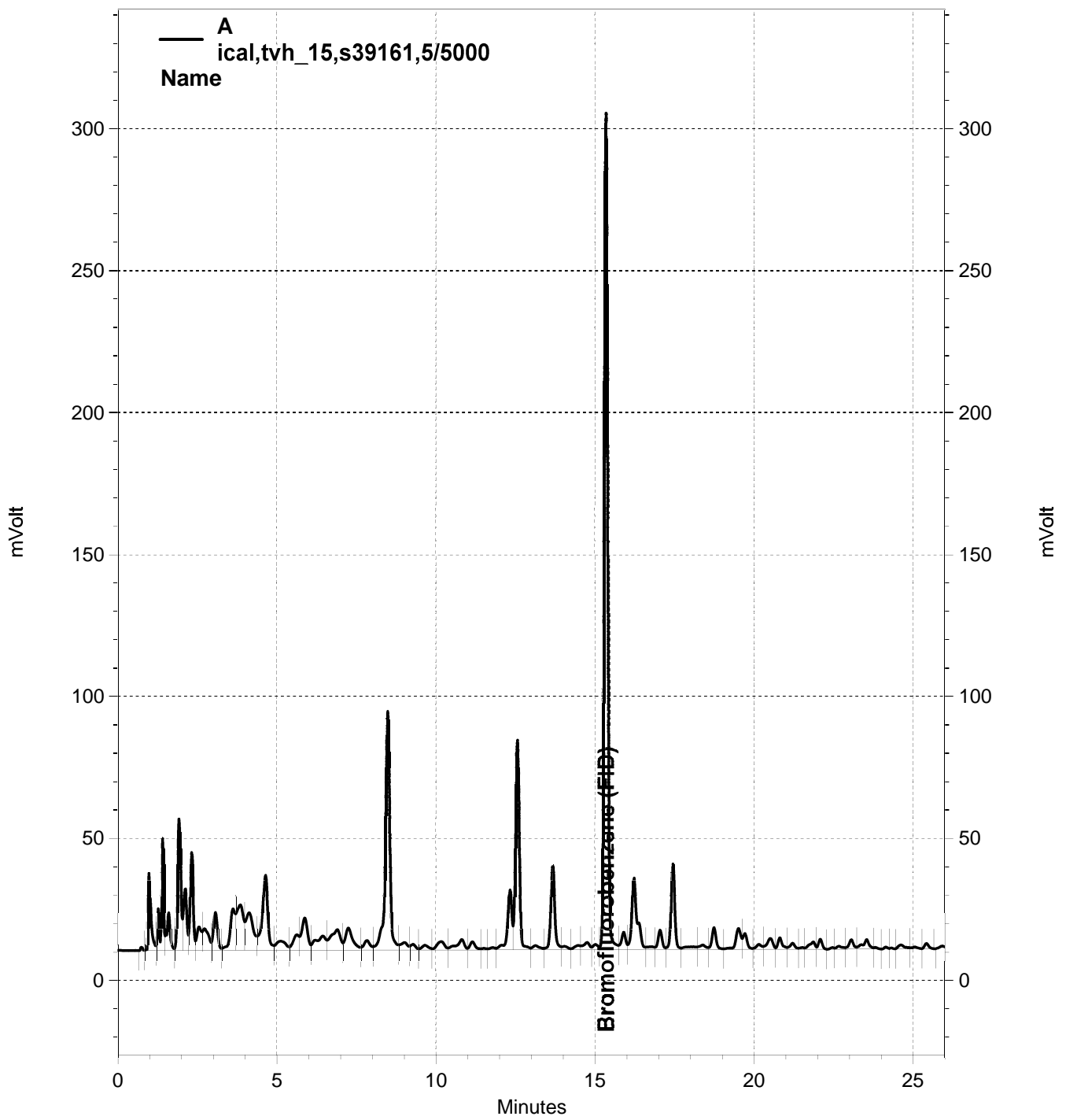
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-026, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: ical,tvh_15,s39161,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-026
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/19/2019 3:32:00 AM
 Analysis Date: 1/21/2019 10:56:43 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07
TVH Instrument Results
 Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	2124222	900.000 CAL
GAS:6-10			4576185	2500.000 CAL
GAS:6-12			5714849	2500.000 CAL
GAS:7-12			4558952	2500.000 CAL
JP4:7-12			4558952	0.000 CAL
?			0	0.000 CAL

BTXE Instrument Results
 Channel B: RTX-502.2 PID

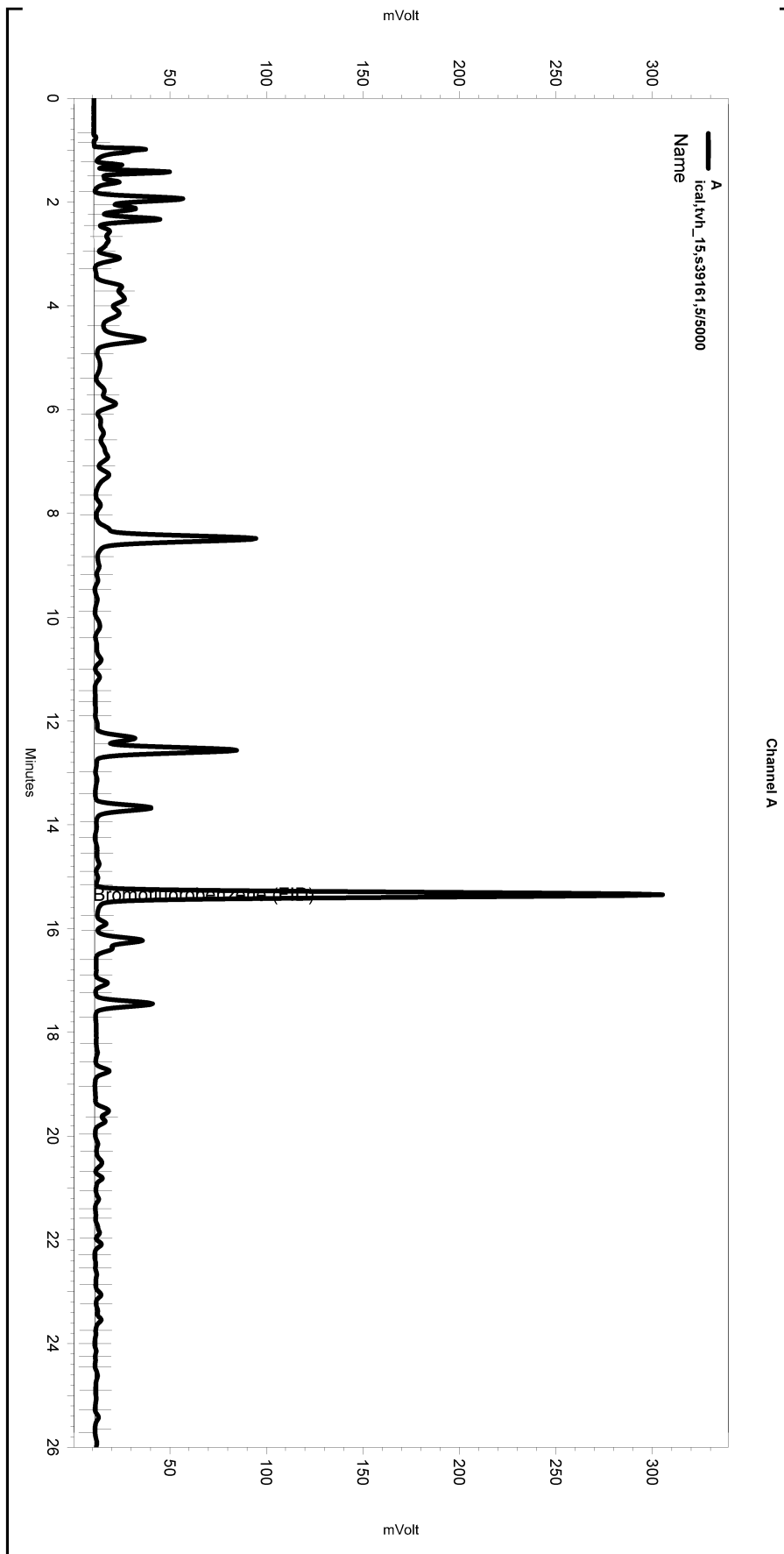
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.133	19309	0.000 CAL
Benzene	4.667	4.683	185382	0.000 CAL
Toluene	8.483	8.500	955436	0.000 CAL
Ethylbenzene	12.333	12.350	199871	0.000 CAL
m,p-Xylenes	12.567	12.567	814661	0.000 CAL
o-Xylene	13.667	13.683	296697	0.000 CAL
Bromofluorobenzene (PID)	15.350	15.350	5309383	0.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.950	2.000	4677	0.000 CAL
Benzene	3.533	3.500	159277	0.000 CAL
Toluene	6.933	6.883	1037151	0.000 CAL
Ethylbenzene	10.583	10.516	174186	0.000 CAL
m,p-Xylenes	10.916	10.949	889977	0.000 CAL
o-Xylene	11.783	11.716	309176	0.000 CAL
Bromofluorobenzene (PID)	12.683	12.699	6052274	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: ical,tvh_15,s39161,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-026
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/19/2019 3:32:00 AM
 Analysis Date: 1/21/2019 10:56:43 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

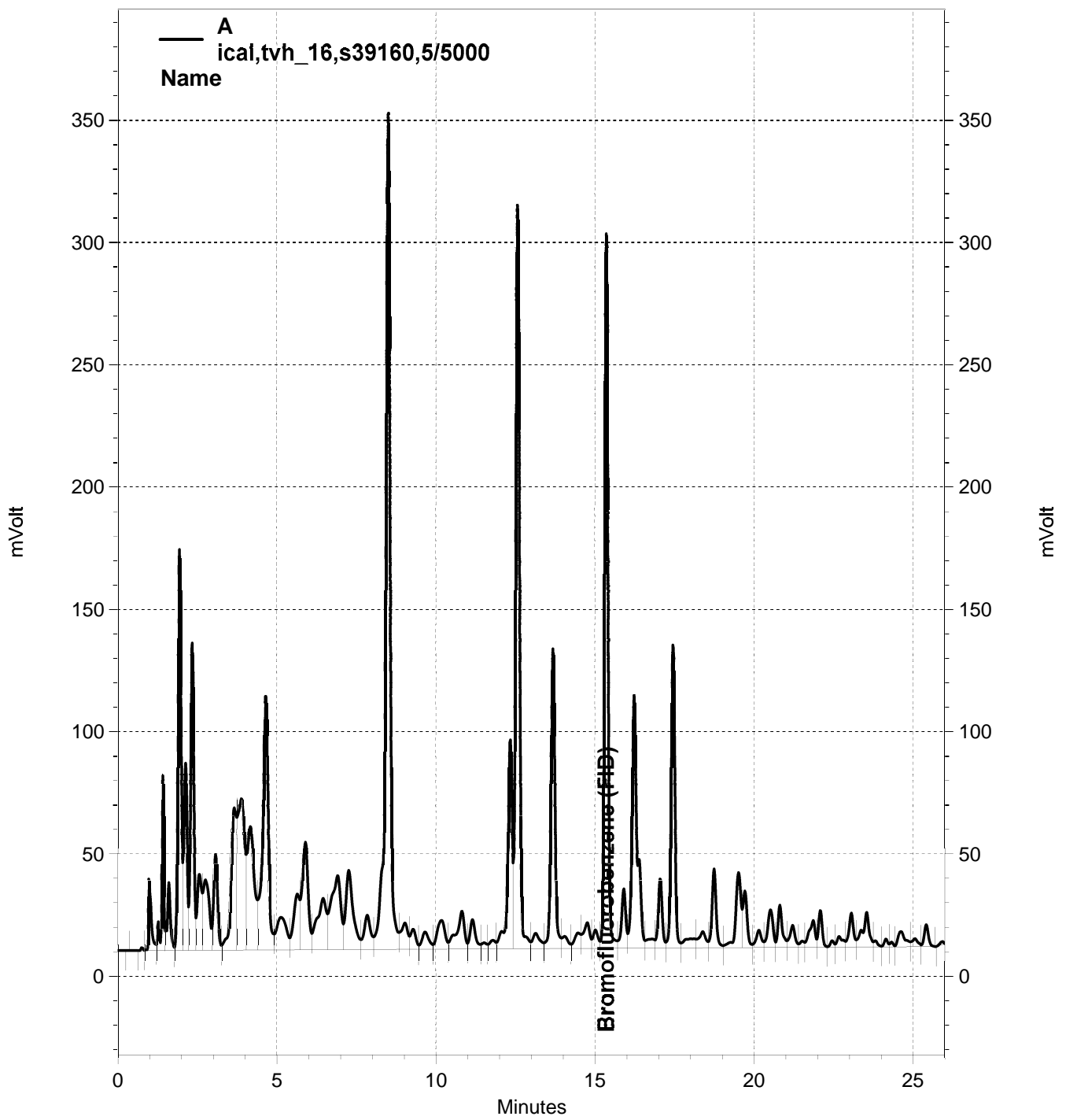
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-027, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: ical,tvh_16,s39160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-027
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/19/2019 4:10:31 AM
 Analysis Date: 1/21/2019 10:56:48 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07
TVH Instrument Results
 Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	2148141	900.000 CAL
GAS:6-10			18217172	10000.000 CAL
GAS:6-12			22808890	10000.000 CAL
GAS:7-12			18452766	10000.000 CAL
JP4:7-12			18452766	0.000 CAL
?			0	0.000 CAL

BTXE Instrument Results
 Channel B: RTX-502.2 PID

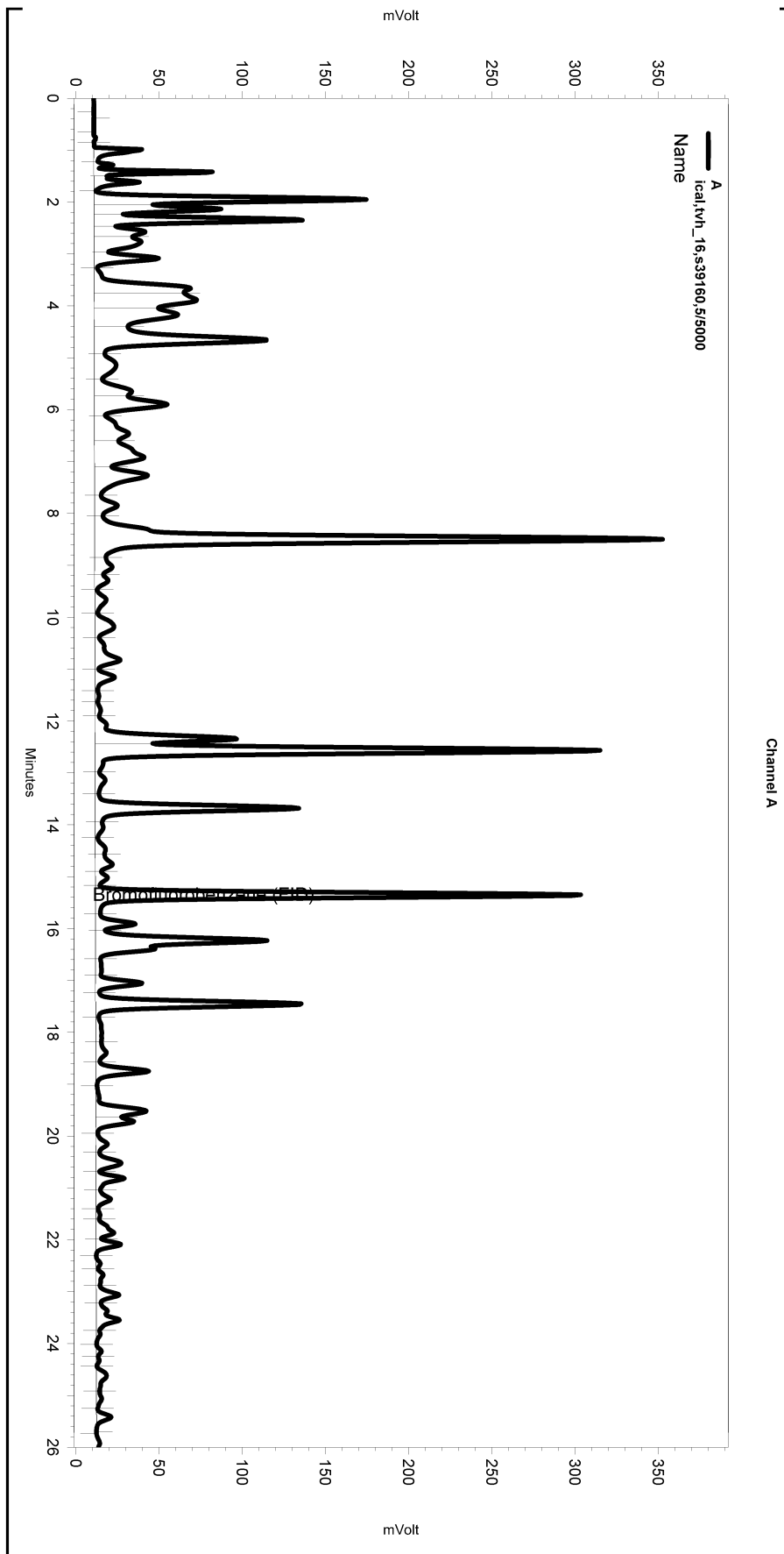
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.100	2.133	50712	0.000 CAL
Benzene	4.683	4.683	674277	0.000 CAL
Toluene	8.500	8.500	3842132	0.000 CAL
Ethylbenzene	12.350	12.350	751024	0.000 CAL
m,p-Xylenes	12.567	12.567	3323776	0.000 CAL
o-Xylene	13.683	13.683	1192601	0.000 CAL
Bromofluorobenzene (PID)	15.350	15.350	5326407	0.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.950	2.000	19837	0.000 CAL
Benzene	3.550	3.500	639258	0.000 CAL
Toluene	6.950	6.883	4565847	0.000 CAL
Ethylbenzene	10.566	10.516	798700	0.000 CAL
m,p-Xylenes	10.916	10.949	3865801	0.000 CAL
o-Xylene	11.783	11.716	1295615	0.000 CAL
Bromofluorobenzene (PID)	12.683	12.699	6061404	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: ical,tvh_16,s39160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-027
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/19/2019 4:10:31 AM
 Analysis Date: 1/21/2019 10:56:48 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

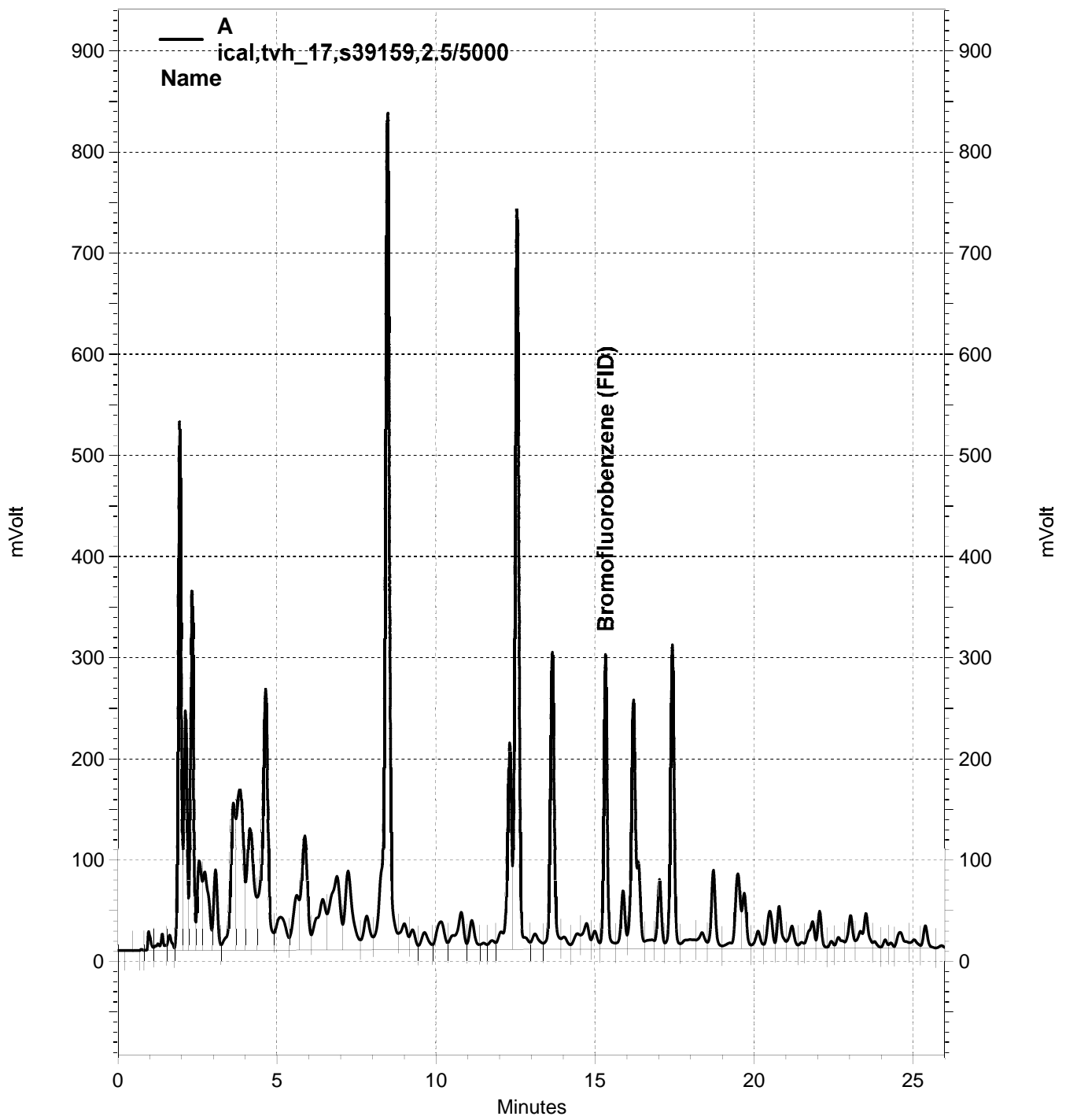
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-028, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: ical,tvh_17,s39159,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/19/2019 4:48:57 AM
 Analysis Date: 1/21/2019 10:56:52 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07
TVH Instrument Results
 Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.383	2181829	900.000 CAL
GAS:6-10			44350336	25000.000 CAL
GAS:6-12			55410528	25000.000 CAL
GAS:7-12			44670360	25000.000 CAL
JP4:7-12			44670360	0.000 CAL
?			0	0.000 CAL

BTXE Instrument Results
 Channel B: RTX-502.2 PID

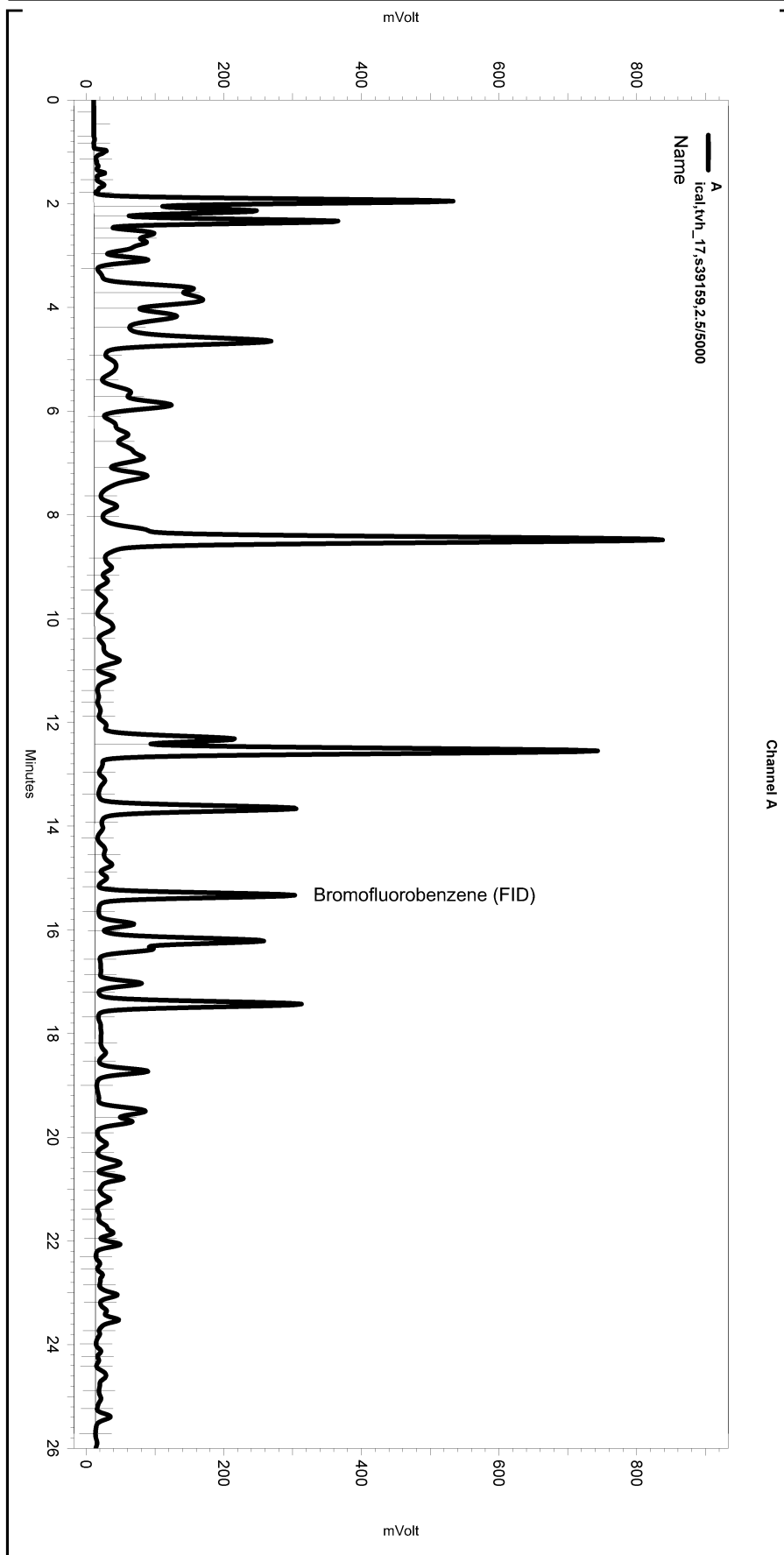
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.133	186535	0.000 CAL
Benzene	4.667	4.683	1817568	0.000 CAL
Toluene	8.483	8.500	9244062	0.000 CAL
Ethylbenzene	12.317	12.350	1839497	0.000 CAL
m,p-Xylenes	12.550	12.567	7864636	0.000 CAL
o-Xylene	13.650	13.683	2874960	0.000 CAL
Bromofluorobenzene (PID)	15.333	15.350	5382425	0.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.967	2.000	62986	0.000 CAL
Benzene	3.550	3.500	1951899	0.000 CAL
Toluene	6.933	6.883	11288111	0.000 CAL
Ethylbenzene	10.566	10.516	2030518	0.000 CAL
m,p-Xylenes	10.916	10.949	9447323	0.000 CAL
o-Xylene	11.766	11.716	3255761	0.000 CAL
Bromofluorobenzene (PID)	12.666	12.699	6120962	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: ical,tvh_17,s39159,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/19/2019 4:48:57 AM
 Analysis Date: 1/21/2019 10:56:52 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

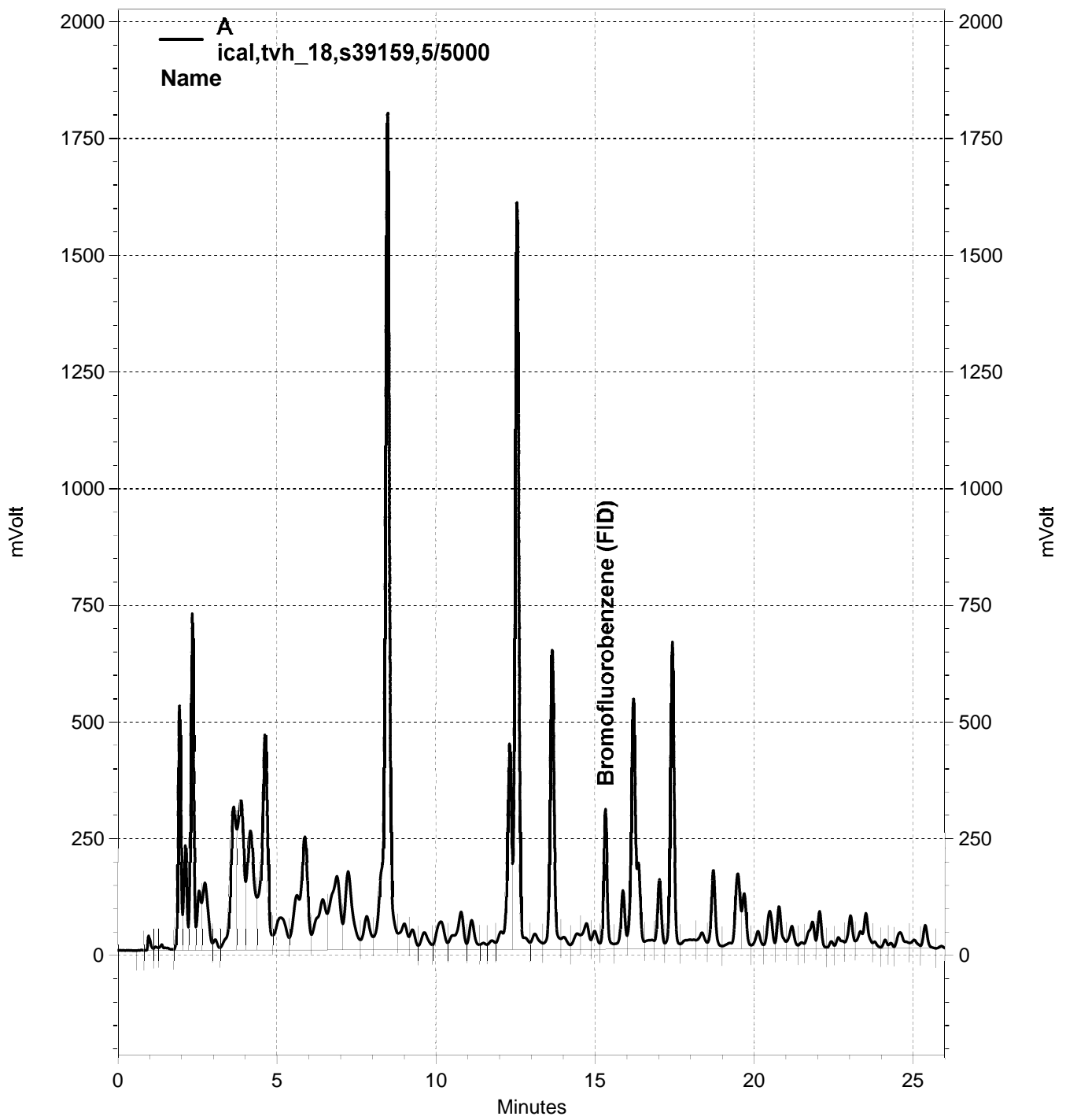
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-029, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: ical,tvh_18,s39159,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-029
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX018.met

Software Version 3.1.7
 Run Date: 1/19/2019 5:27:08 AM
 Analysis Date: 1/21/2019 10:56:56 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.383	2339476	900.000 CAL
GAS:6-10			92270784	50000.000 CAL
GAS:6-12			116484928	50000.000 CAL
GAS:7-12			96509520	50000.000 CAL
JP4:7-12			96509520	0.000 CAL
?			0	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	178720	0.000 CAL
Benzene	4.667	4.683	2325765	0.000 CAL
Toluene	8.483	8.500	19892725	0.000 CAL
Ethylbenzene	12.333	12.350	3995789	0.000 CAL
m,p-Xylenes	12.550	12.567	16937564	0.000 CAL
o-Xylene	13.650	13.683	6229815	0.000 CAL
Bromofluorobenzene (PID)	15.333	15.350	5637523	0.000 CAL

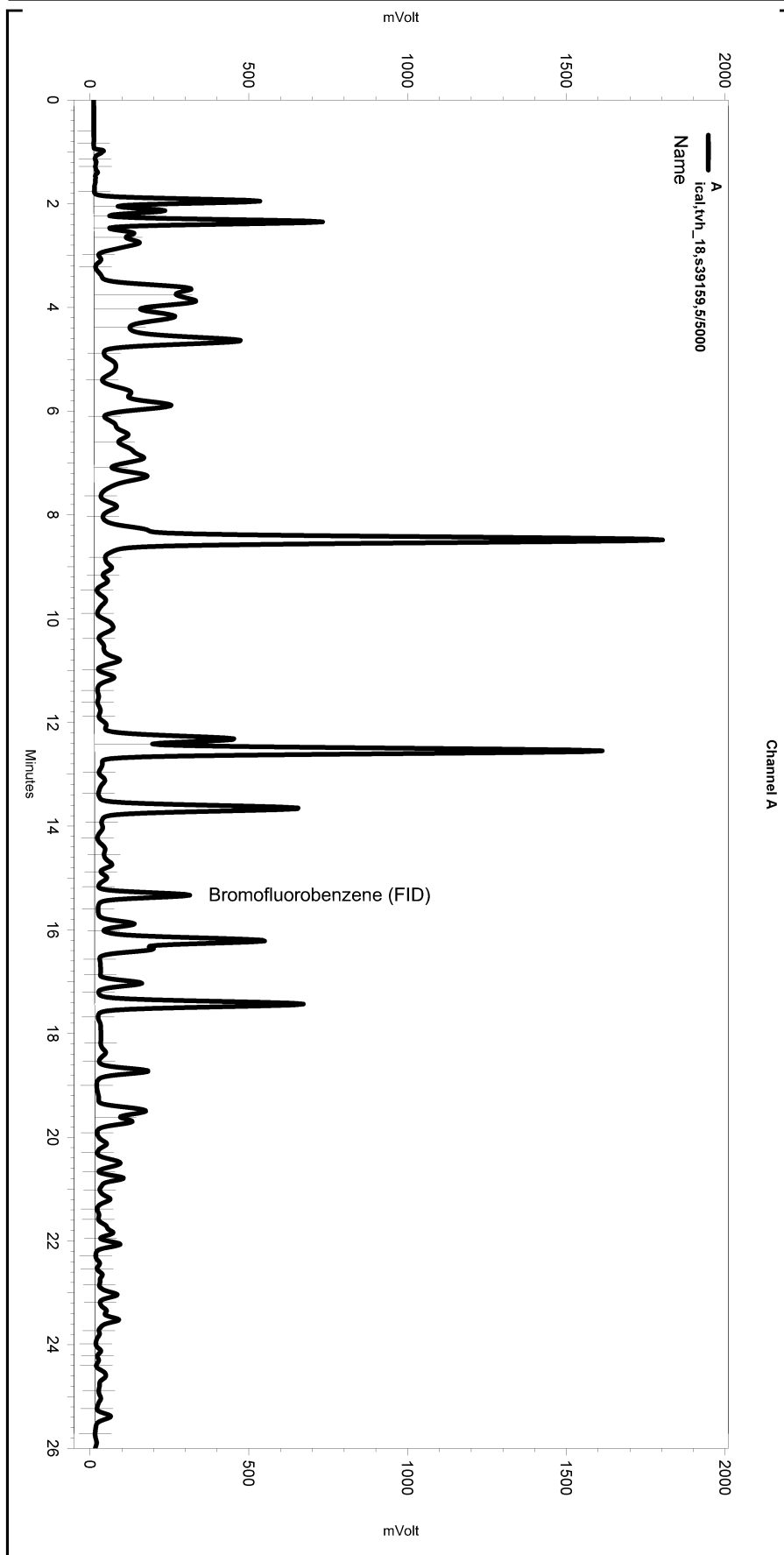
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.950	2.000	18218	0.000 CAL
Benzene	3.550	3.500	2019411	0.000 CAL
Toluene	6.933	6.883	23963694	0.000 CAL
Ethylbenzene	10.566	10.516	4521248	0.000 CAL
m,p-Xylenes	10.916	10.949	20185000	0.000 CAL
o-Xylene	11.766	11.716	7111474	0.000 CAL
Bromofluorobenzene (PID)	12.666	12.699	6332116	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: ical,tvh_18,s39159,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-029
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/19/2019 5:27:08 AM
 Analysis Date: 1/21/2019 10:56:56 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

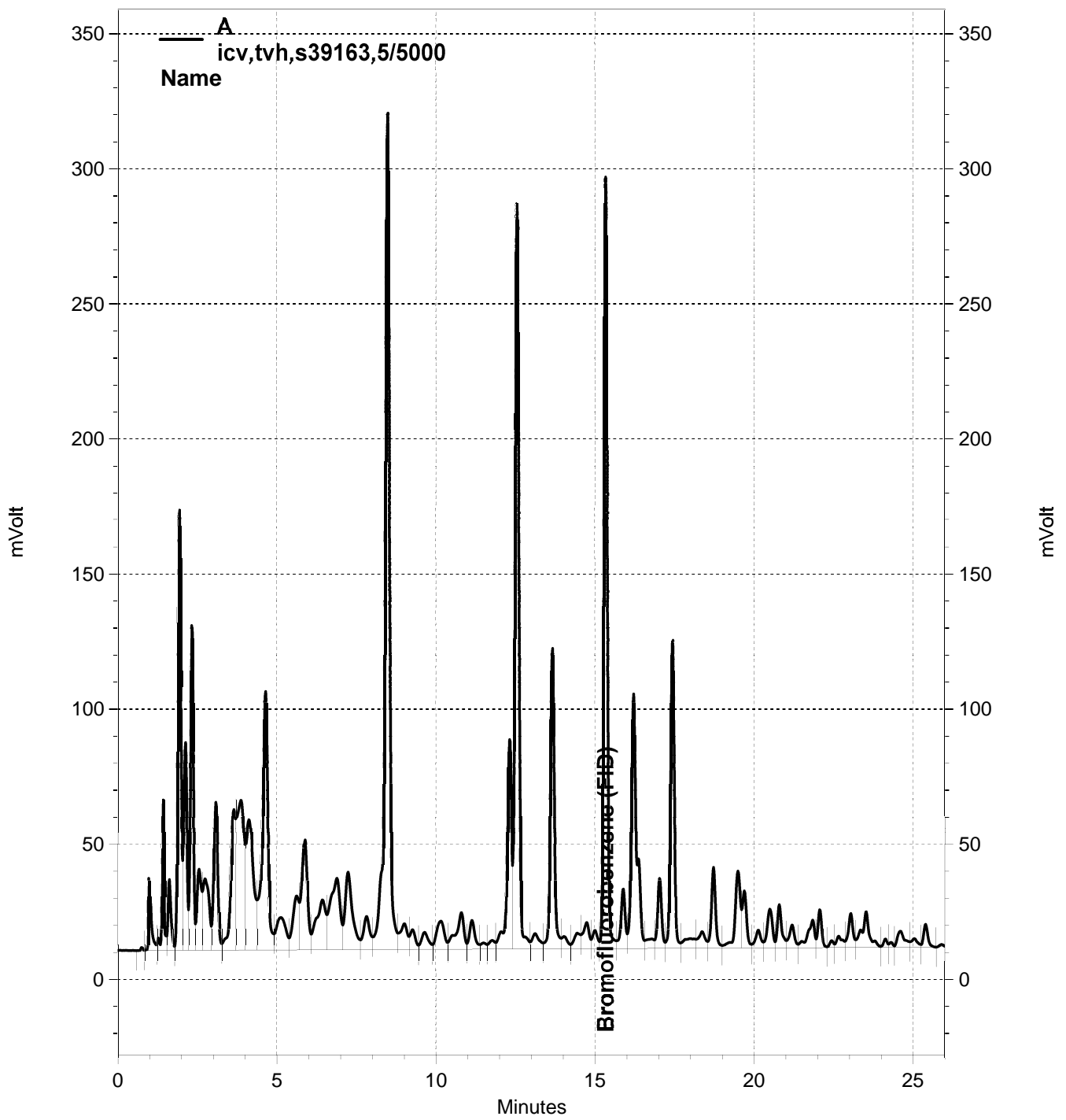
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-031, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: icv,tvh,s39163,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-031
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/19/2019 6:43:52 AM
 Analysis Date: 1/21/2019 10:57:05 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07
TVH Instrument Results
 Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.383	2087950	865.108
GAS:6-10			16676715	8727.528
GAS:6-12			20946080	8628.853
GAS:7-12			16801980	8526.028
JP4:7-12			16801980	4481.484
?			0	0.000

BTXE Instrument Results
 Channel B: RTX-502.2 PID

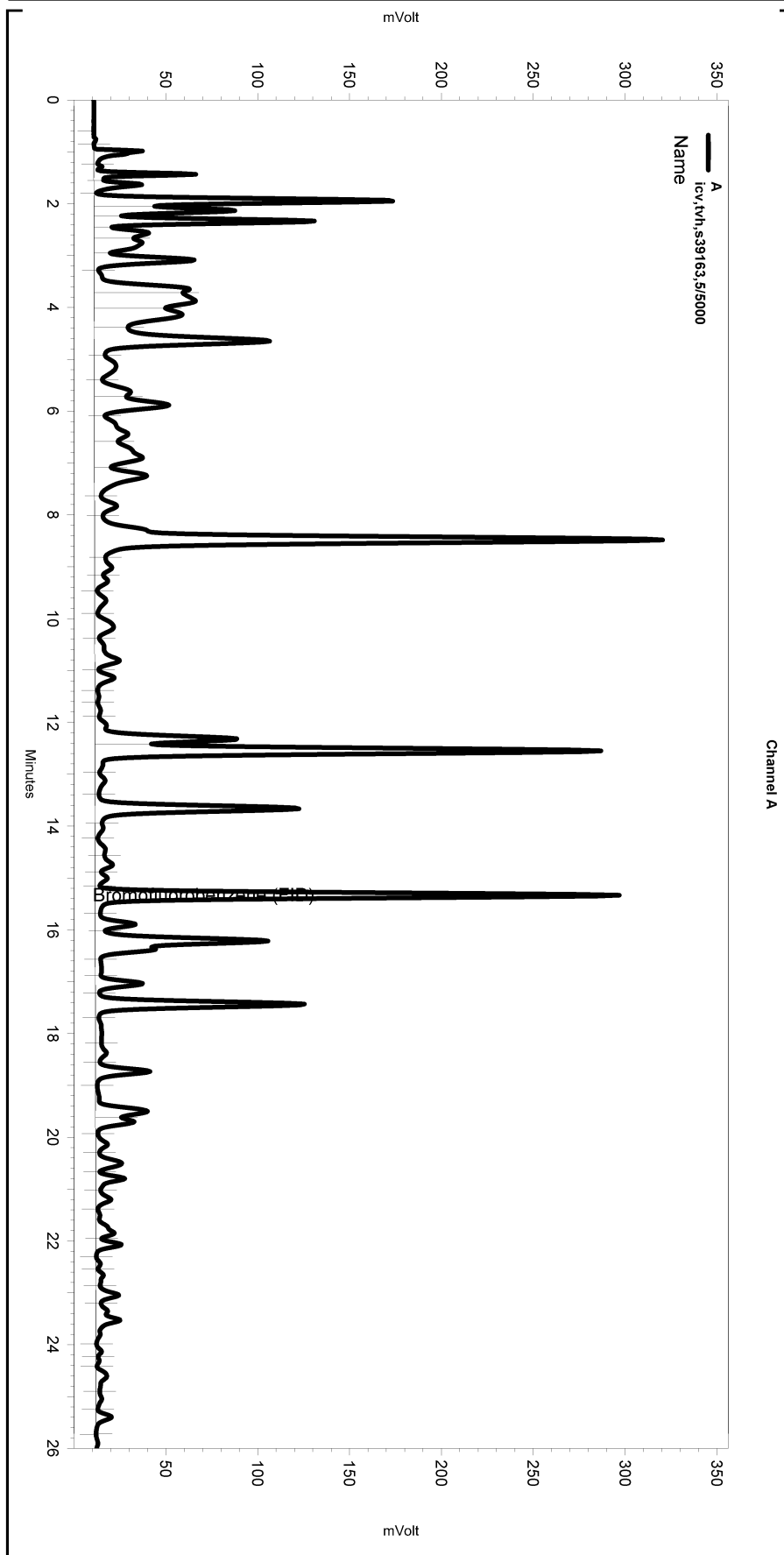
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.133	62172	37.252
Benzene	4.667	4.683	658511	84.293
Toluene	8.483	8.500	3478044	481.438
Ethylbenzene	12.333	12.350	684878	109.763
m,p-Xylenes	12.550	12.567	3019473	433.059
o-Xylene	13.667	13.683	1087314	161.026
Bromofluorobenzene (PID)	15.333	15.350	5199565	870.901

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.950	2.000	20847	12.267
Benzene	3.533	3.500	641743	78.899
Toluene	6.916	6.883	4121408	551.962
Ethylbenzene	10.549	10.516	717142	120.644
m,p-Xylenes	10.899	10.949	3511299	467.164
o-Xylene	11.749	11.716	1181454	157.229
Bromofluorobenzene (PID)	12.666	12.699	5927241	909.848

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: icv,tvh,s39163,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-031
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/19/2019 6:43:52 AM
 Analysis Date: 1/21/2019 10:57:05 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Carbon Marker Run

Inst : GC07
 Seqnum : 329026478033 File : 018_033
 Standards: S39468 (1000X), S39307 (5000X)

IDF : 1.0
 Time : 19-JAN-2019 08:00

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C6 - n-Hexane	A	2.333	+/- 6s (0.100m)	2.233 - 2.433
C7 - n-Heptane	A	4.633	+/- 6s (0.100m)	4.533 - 4.733
C8 - n-Octane	A	8.3	+/- 6s (0.100m)	8.200 - 8.400
C10 - n-Decane	A	16.1	+/- 6s (0.100m)	16.000 - 16.200
C12 - n-Dodecane	A	23.033	+/- 6s (0.100m)	22.933 - 23.133

Carbon Range	Channel	Range Start	Range Stop
Gasoline C6-C10	A	2.233	16.200
Gasoline C6-C12	A	2.233	23.133
Gasoline C7-C12	A	4.533	23.133
JP-4 C7-C12	A	4.533	23.133

EZChrom method retention times successfully validated.

Analyst: ALE Date: 01/21/19 Reviewer: EAH Date: 01/21/19

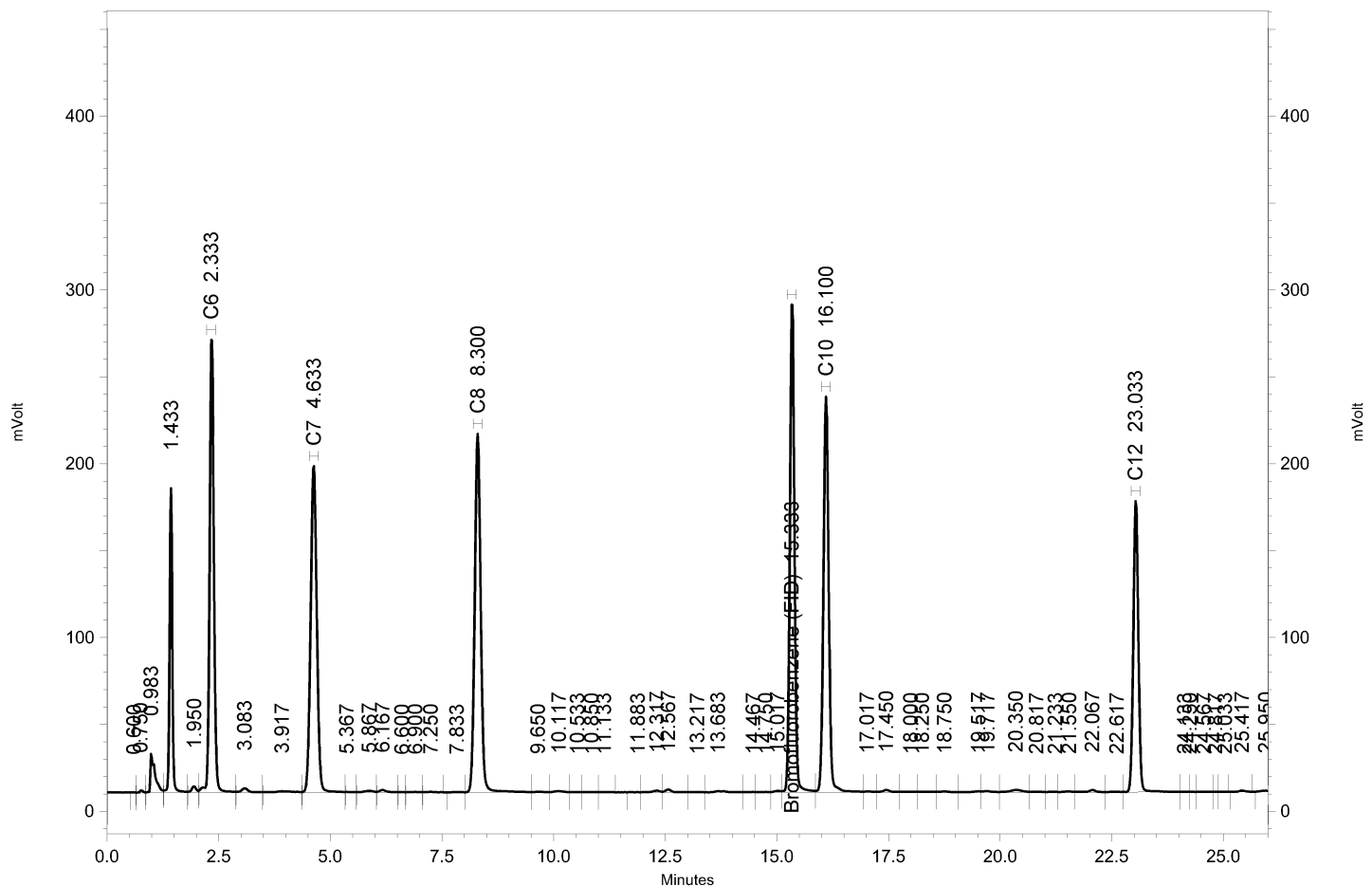
GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
C6	2.333	2.333	1749060	0.000
C7	4.633	4.633	1810488	0.000
C8	8.300	8.300	1937780	0.000
Bromofluorobenzene (FID)	15.333	15.333	2058889	0.000
C10	16.100	16.100	1877013	0.000
C12	23.033	23.033	1322997	0.000
?			0	0.000
?			0	0.000
?			0	0.000



Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: cmarker,s39468,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-033
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/19/2019 8:00:38 AM
 Analysis Date: 1/19/2019 8:29:21 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.383	2058889	853.067
GAS:6-10			7548529	3950.418
GAS:6-12			8988055	3702.679
GAS:7-12			7190597	3648.810
JP4:7-12			7190597	1917.902
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.200	2.133	7989	4.787
Benzene	4.633	4.683	180950	23.163
Toluene		8.500		0.000 BDL
Ethylbenzene	12.333	12.350	7449	1.194
m,p-Xylenes	12.567	12.567	19111	2.741
o-Xylene	13.683	13.683	5221	0.773
Bromofluorobenzene (PID)	15.333	15.350	5143505	861.512

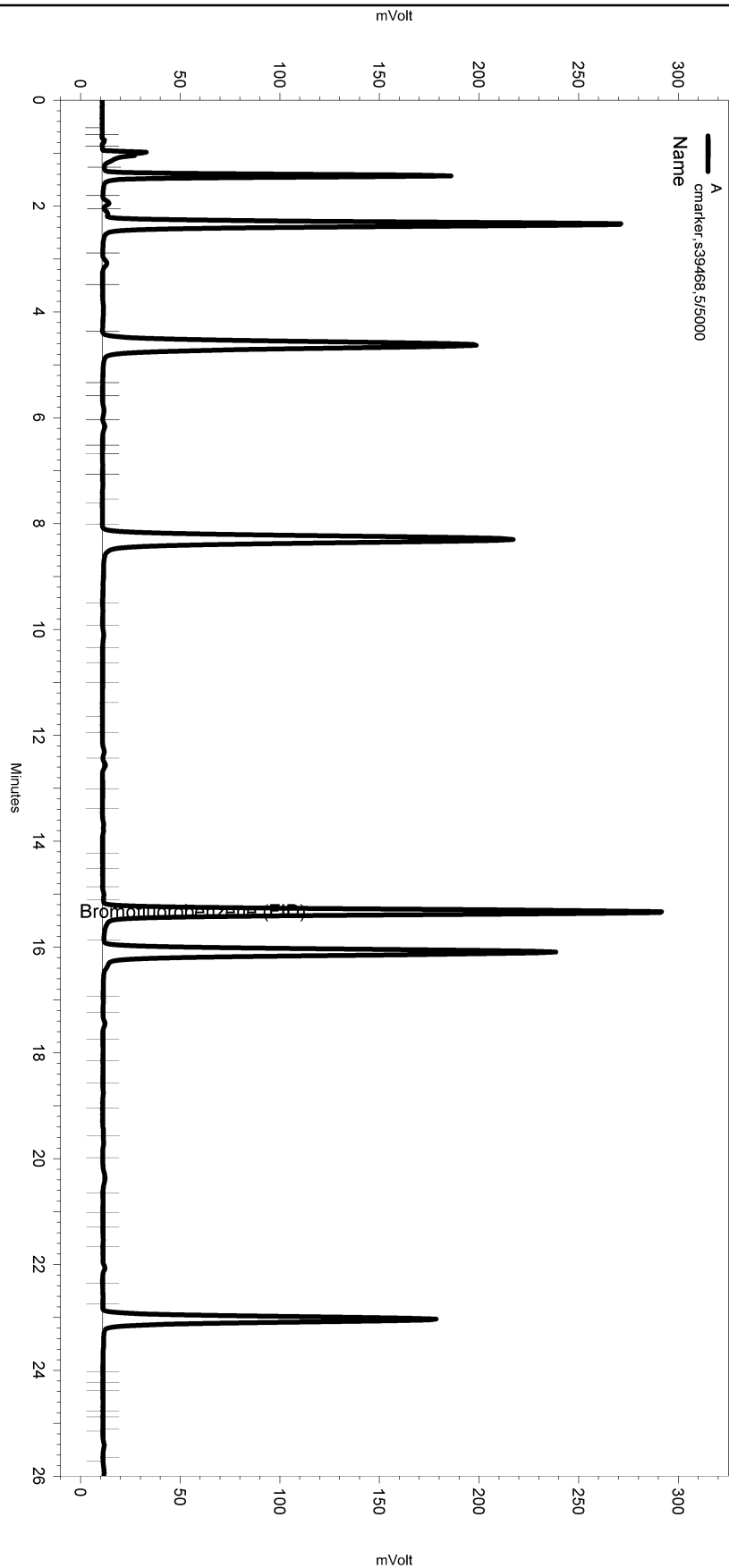
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	2.000	12965	7.629
Benzene	3.533	3.500	4217	0.518
Toluene	6.933	6.883	16866	2.259
Ethylbenzene	10.583	10.516	9015	1.517
m,p-Xylenes	10.933	10.949	23213	3.088
o-Xylene	11.766	11.716	18000	2.395
Bromofluorobenzene (PID)	12.666	12.699	5916659	908.224

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\018.seq
 Sample Name: cmarker,s39468,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\018-033
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbx018.met

Software Version 3.1.7
 Run Date: 1/19/2019 8:00:38 AM
 Analysis Date: 1/19/2019 8:29:21 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\018-033_36D5.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Continuing Calibration Verification Raw Data

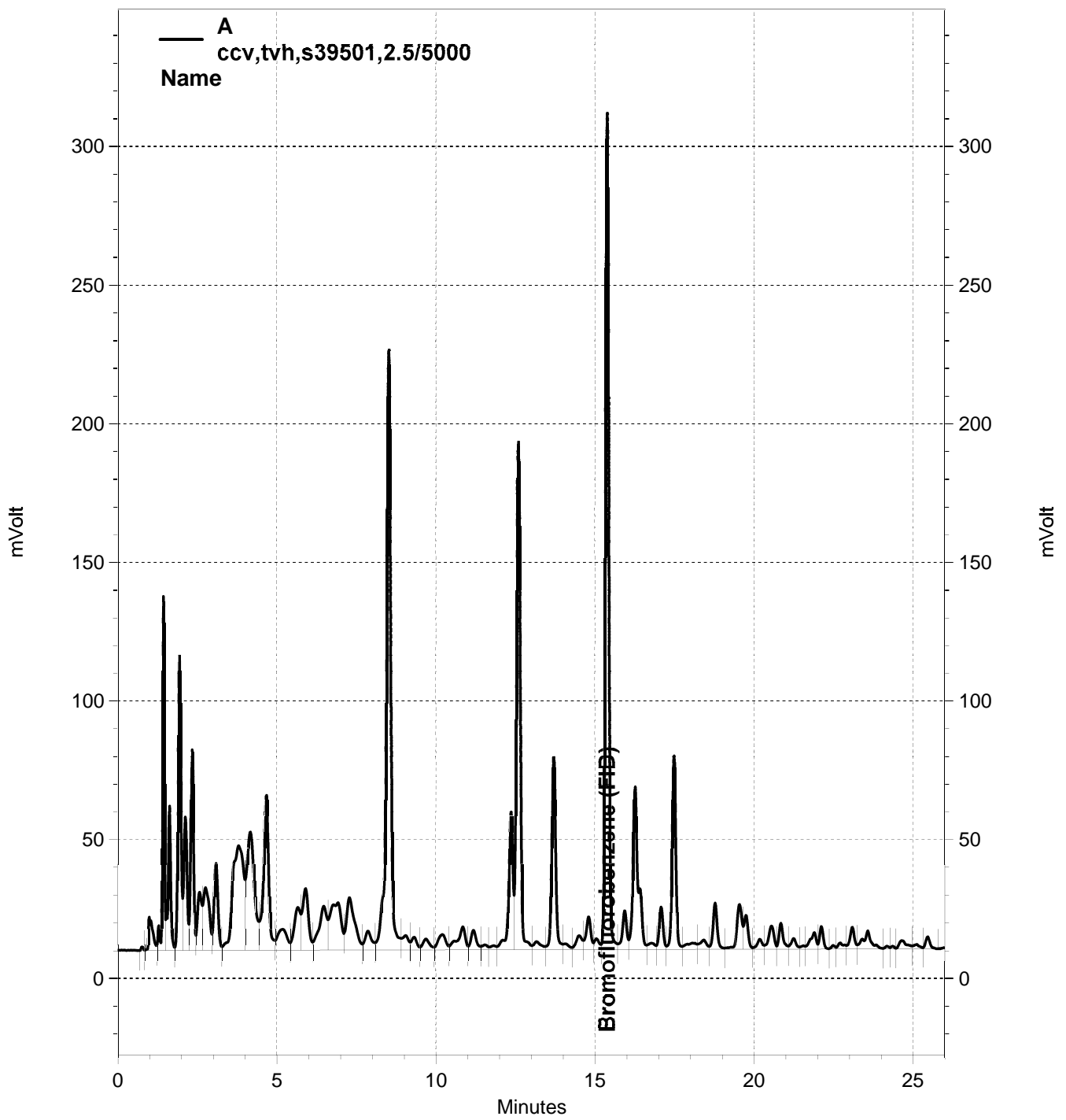
ENTHALPY SPIKE USER REPORT FOR 306574 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC962094 IDF : 1.0
 Seqnum : 329030801002.6 File : 021_002 Time : 21-JAN-2019 10:00
 Cal : 329026478001 Caldate : 19-JAN-2019
 Standards: S39501 (2000X), S39307 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	1970.7	2127.9	5000	5399	ng	8	15	u
Bromofluorobenzene (FID)	A	2413.5	2419.8	900.0	902.3	ng	0	15	u

Analyst: JM2 Date: 01/22/19 Reviewer: EAH Date: 01/23/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-002, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-002
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX018.met

Software Version 3.1.7
 Run Date: 1/21/2019 10:00:10 AM
 Analysis Date: 1/21/2019 12:13:29 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07
TVH Instrument Results
 Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.383	2177809	902.340
GAS:6-10			10959846	5735.684
GAS:6-12			13472725	5550.164
GAS:7-12			10639699	5399.028
JP4:7-12			10639699	2837.858
?			0	0.000

BTXE Instrument Results
 Channel B: RTX-502.2 PID

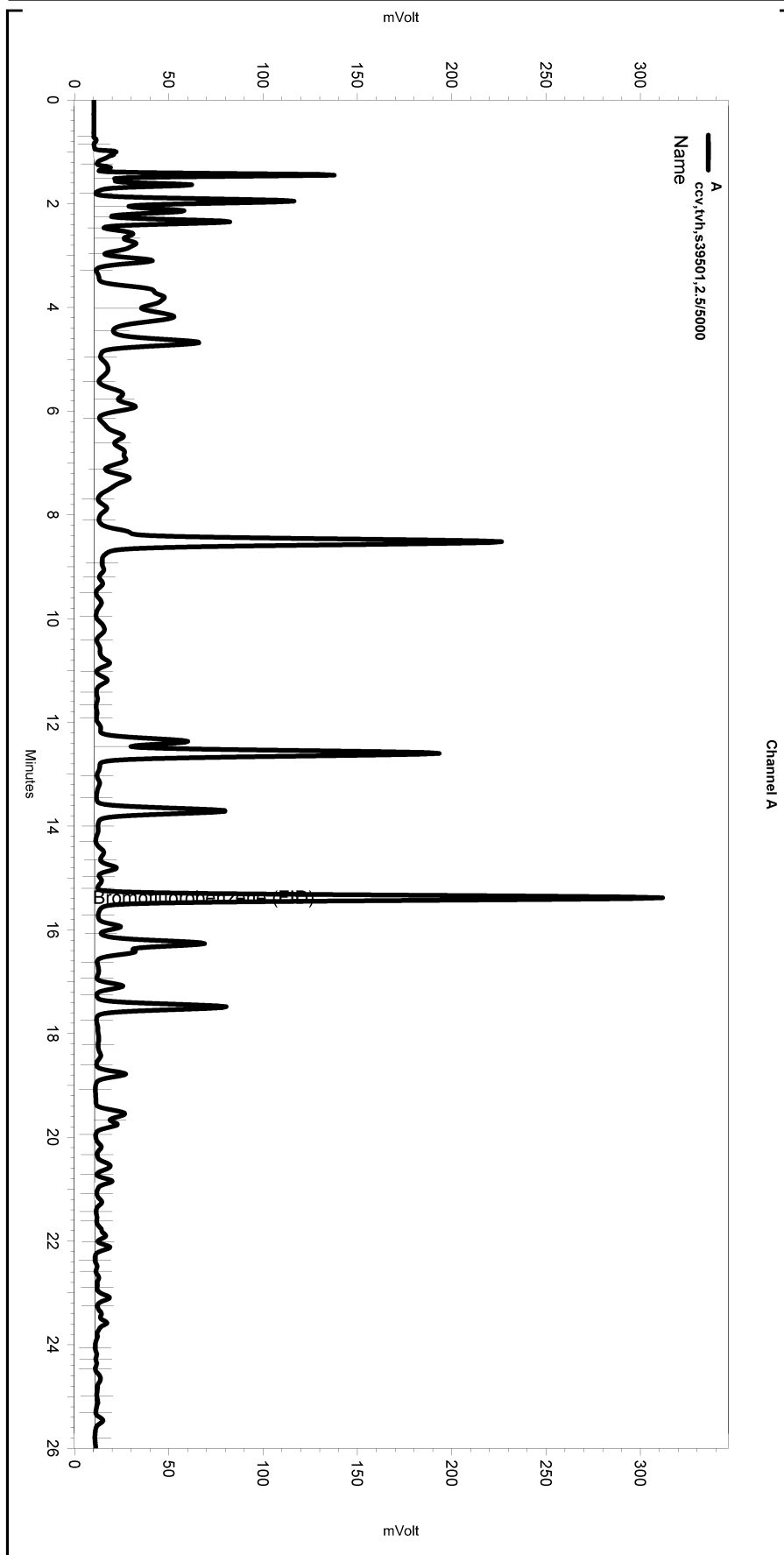
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.133	39181	23.476
Benzene	4.683	4.683	391598	50.127
Toluene	8.517	8.500	2391961	331.100
Ethylbenzene	12.367	12.350	431727	69.192
m,p-Xylenes	12.600	12.567	1973440	283.035
o-Xylene	13.700	13.683	667128	98.798
Bromofluorobenzene (PID)	15.383	15.350	5400448	904.548

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.950	2.000	16679	9.814
Benzene	3.550	3.500	380798	46.817
Toluene	6.950	6.883	2826484	378.538
Ethylbenzene	10.599	10.599	432411	72.744
m,p-Xylenes	10.933	10.949	2265456	301.410
o-Xylene	11.799	11.799	712974	94.883
Bromofluorobenzene (PID)	12.699	12.699	6202903	952.163

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-002
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/21/2019 10:00:10 AM
 Analysis Date: 1/21/2019 12:13:29 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

 Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

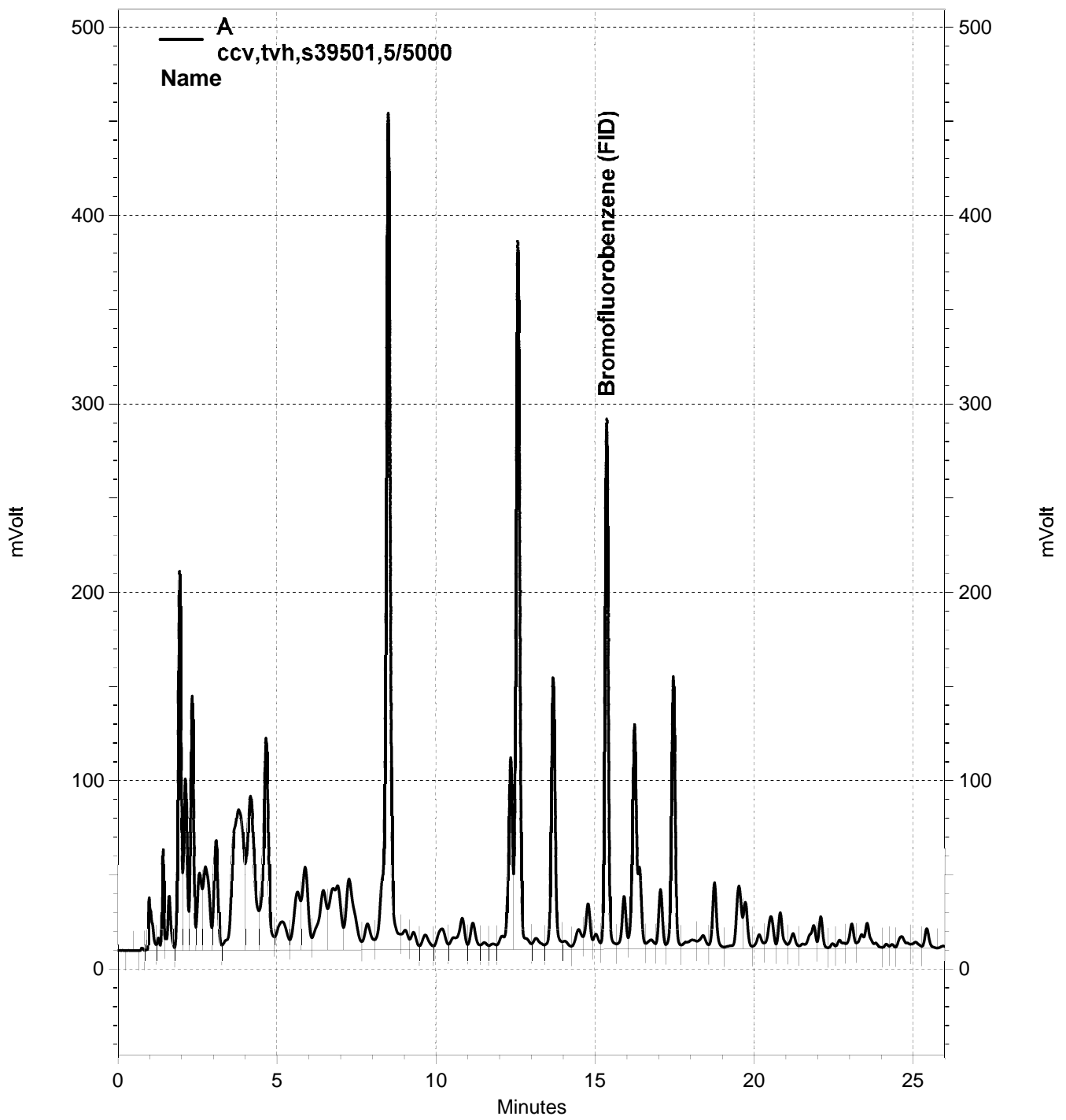
ENTHALPY SPIKE USER REPORT FOR 306574 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC962105 IDF : 1.0
 Seqnum : 329030801017.5 File : 021_017 Time : 21-JAN-2019 20:04
 Cal : 329026478001 Caldate : 19-JAN-2019
 Standards: S39501 (1000X), S39307 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1970.7	2165.7	10000	10990	ng	10	15	u
Bromofluorobenzene (FID)	A	2413.5	2274.8	900.0	848.3	ng	-6	15	u

Analyst: JM2 Date: 01/22/19 Reviewer: EAH Date: 01/23/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-017, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: ccv,tvh,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-017
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/21/2019 8:04:42 PM
 Analysis Date: 1/21/2019 8:33:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	2047345	848.284
GAS:6-10			22105738	11568.731
GAS:6-12			27195504	11203.339
GAS:7-12			21657100	10989.721
JP4:7-12			21657100	5776.460
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.133	92677	55.529
Benzene	4.683	4.683	784582	100.431
Toluene	8.500	8.500	4914035	680.211
Ethylbenzene	12.350	12.350	883156	141.541
m,p-Xylenes	12.583	12.567	4032436	578.341
o-Xylene	13.683	13.683	1374759	203.595
Bromofluorobenzene (PID)	15.367	15.350	5047988	845.513

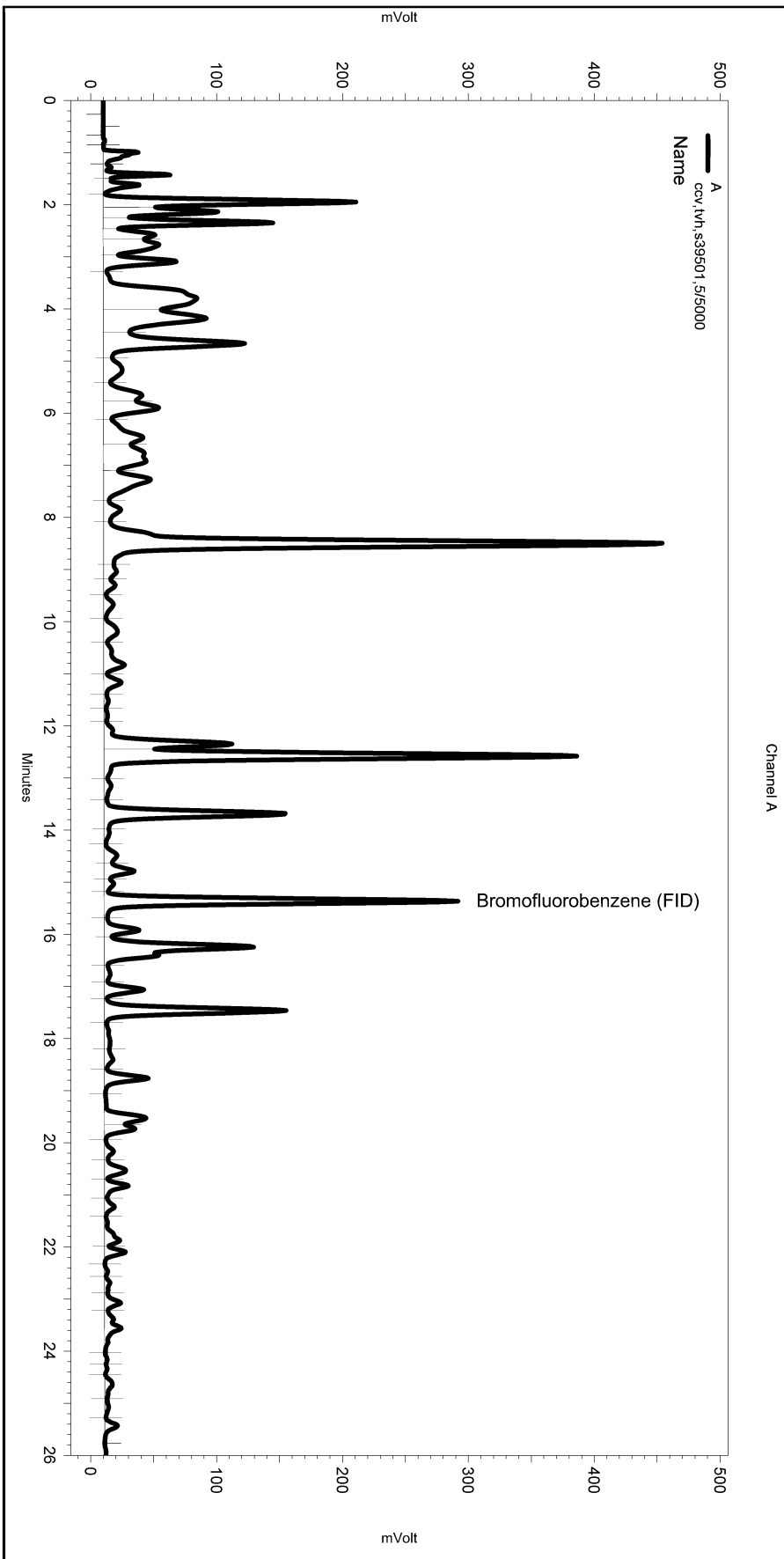
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.950	2.000	29275	17.226
Benzene	3.533	3.500	820604	100.889
Toluene	6.950	6.883	5868452	785.936
Ethylbenzene	10.583	10.599	941956	158.464
m,p-Xylenes	10.916	10.949	4759469	633.228
o-Xylene	11.783	11.799	1533919	204.135
Bromofluorobenzene (PID)	12.683	12.699	5744223	881.755

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: ccv,tvh,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-017
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/21/2019 8:04:42 PM
 Analysis Date: 1/21/2019 8:33:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\021-017_5A40.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

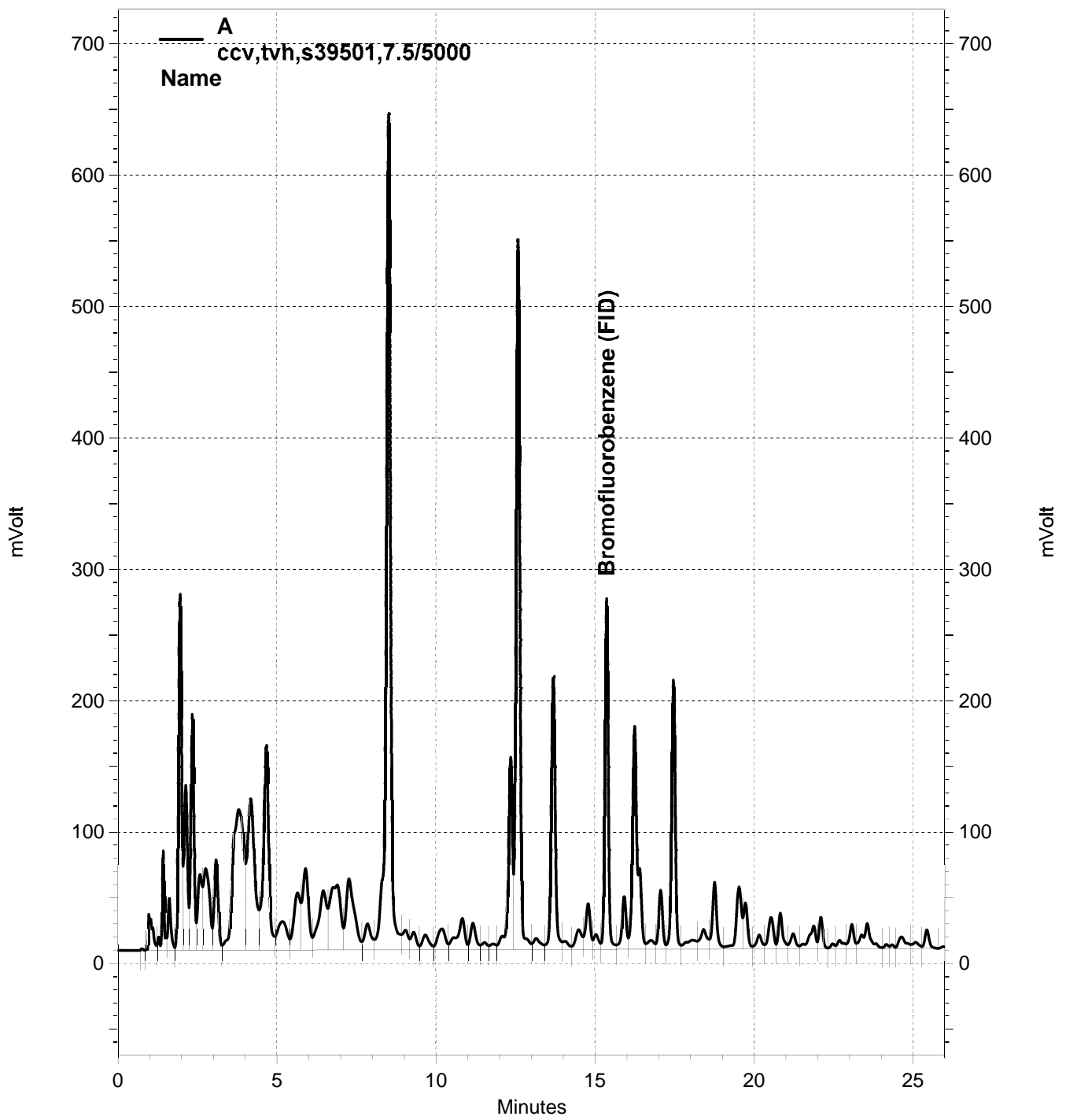
Channel A

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 329030801030 File : 021_030 Time : 22-JAN-2019 04:24
 Cal : 329026478001 Caldate : 19-JAN-2019
 Standards: S39501 (666.7X), S39307 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1970.7	2078.0	15000	15820	ng	5	15	
Bromofluorobenzene (FID)	A	2413.5	2183.2	900.0	814.1	ng	-10	15	

Analyst: ALE Date: 01/22/19 Reviewer: EAH Date: 01/22/19



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-030, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
Sample Name: ccv,tvh,s39501,7.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-030
Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
Run Date: 1/22/2019 4:24:15 AM
Analysis Date: 1/22/2019 4:52:57 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.383	1964835	814.097
GAS:6-10			31589964	16532.170
GAS:6-12			38933504	16038.875
GAS:7-12			31169356	15816.634
JP4:7-12			31169356	8313.601
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.100	2.133	123461	73.974
Benzene	4.700	4.683	1126573	144.207
Toluene	8.517	8.500	7059415	977.179
Ethylbenzene	12.350	12.350	1273457	204.093
m,p-Xylenes	12.583	12.567	5795964	831.270
o-Xylene	13.700	13.683	2015825	298.534
Bromofluorobenzene (PID)	15.367	15.350	4840059	810.686

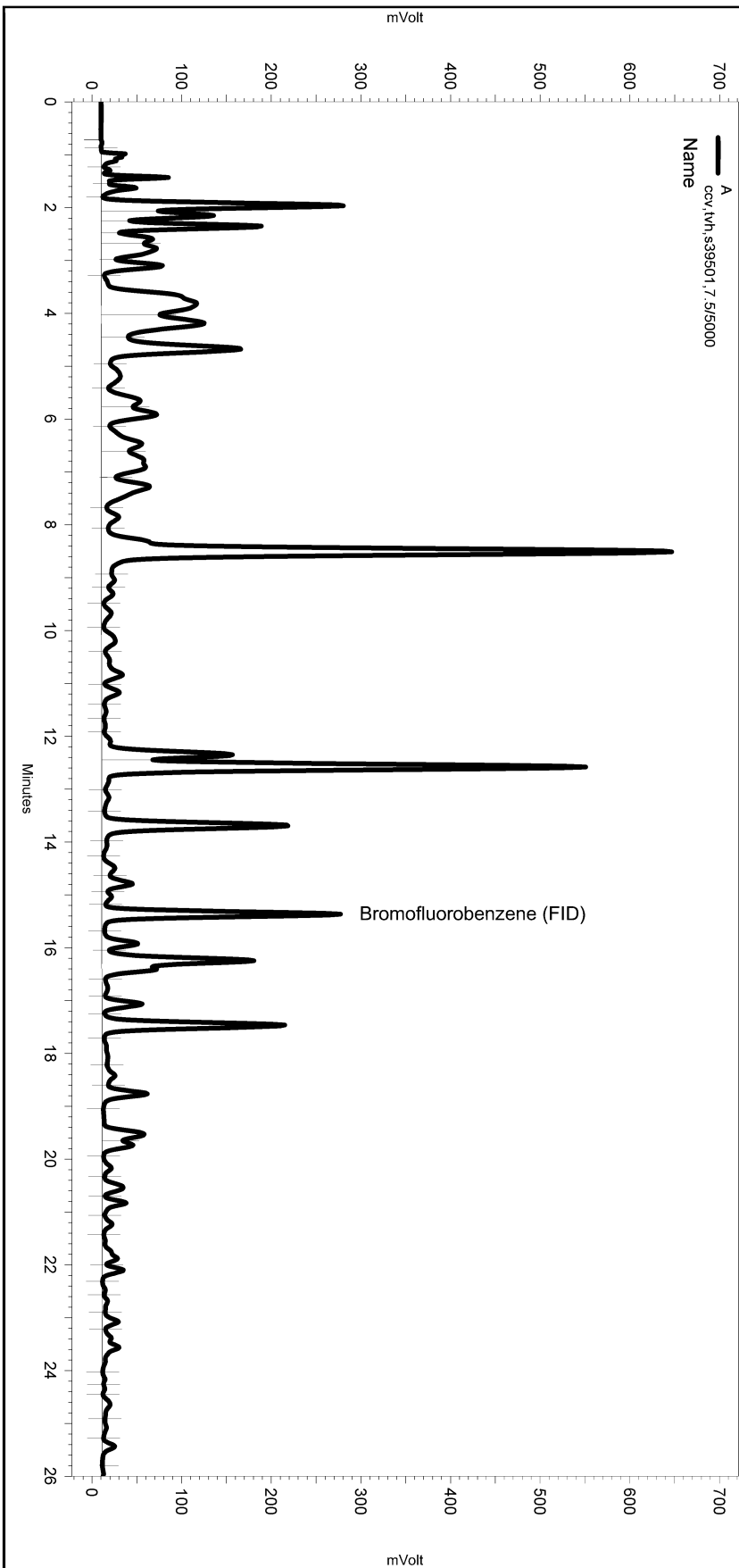
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.983	2.000	33518	19.722
Benzene	3.550	3.500	1216048	149.507
Toluene	6.950	6.883	8660727	1159.893
Ethylbenzene	10.583	10.599	1398358	235.244
m,p-Xylenes	10.933	10.949	6941571	923.548
o-Xylene	11.783	11.799	2280317	303.466
Bromofluorobenzene (PID)	12.683	12.699	5521084	847.502

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: ccv,tvh,s39501,7.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-030
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbx018.met

Software Version 3.1.7
 Run Date: 1/22/2019 4:24:15 AM
 Analysis Date: 1/22/2019 4:52:57 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\021-030_5A4D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

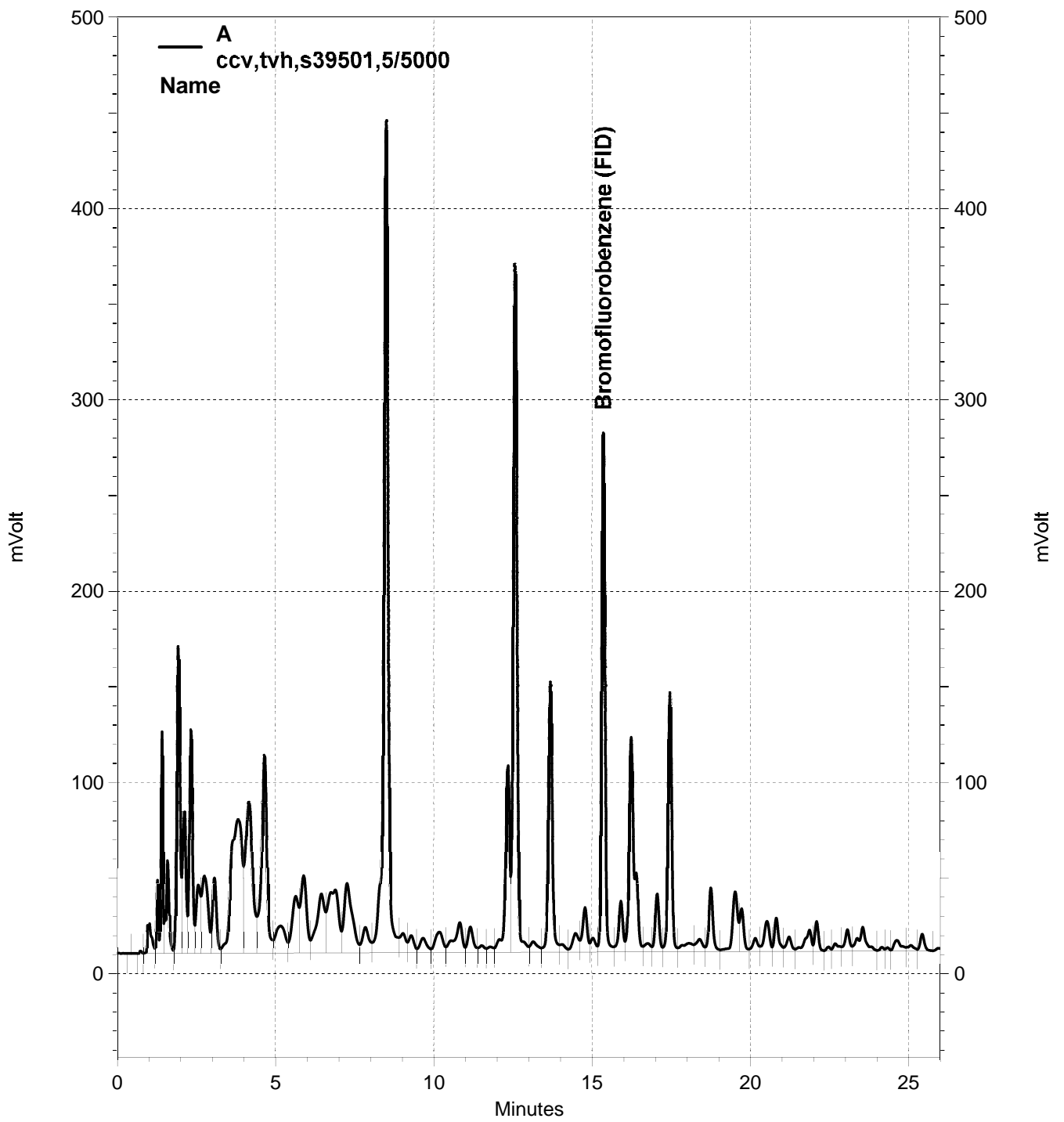
Channel A

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 329030801038 File : 021_038 Time : 22-JAN-2019 09:31
 Cal : 329026478001 Caldate : 19-JAN-2019
 Standards: S39501 (1000X), S39307 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	1970.7	2073.2	10000	10520	ng	5	15	
Bromofluorobenzene (FID)	A	2413.5	2228.9	900.0	831.2	ng	-8	15	

Analyst: ALE Date: 01/22/19 Reviewer: EAH Date: 01/22/19



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-038, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: ccv,tvh,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-038
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/22/2019 9:31:10 AM
 Analysis Date: 1/22/2019 9:59:53 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.383	2006053	831.175
GAS:6-10			20994328	10987.092
GAS:6-12			25758382	10611.309
GAS:7-12			20731526	10520.044
JP4:7-12			20731526	5529.587
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.117	2.133	66766	40.004
Benzene	4.700	4.683	728665	93.273
Toluene	8.517	8.500	4808289	665.574
Ethylbenzene	12.367	12.350	867636	139.054
m,p-Xylenes	12.600	12.567	3909601	560.723
o-Xylene	13.700	13.683	1366581	202.384
Bromofluorobenzene (PID)	15.383	15.350	4980291	834.174

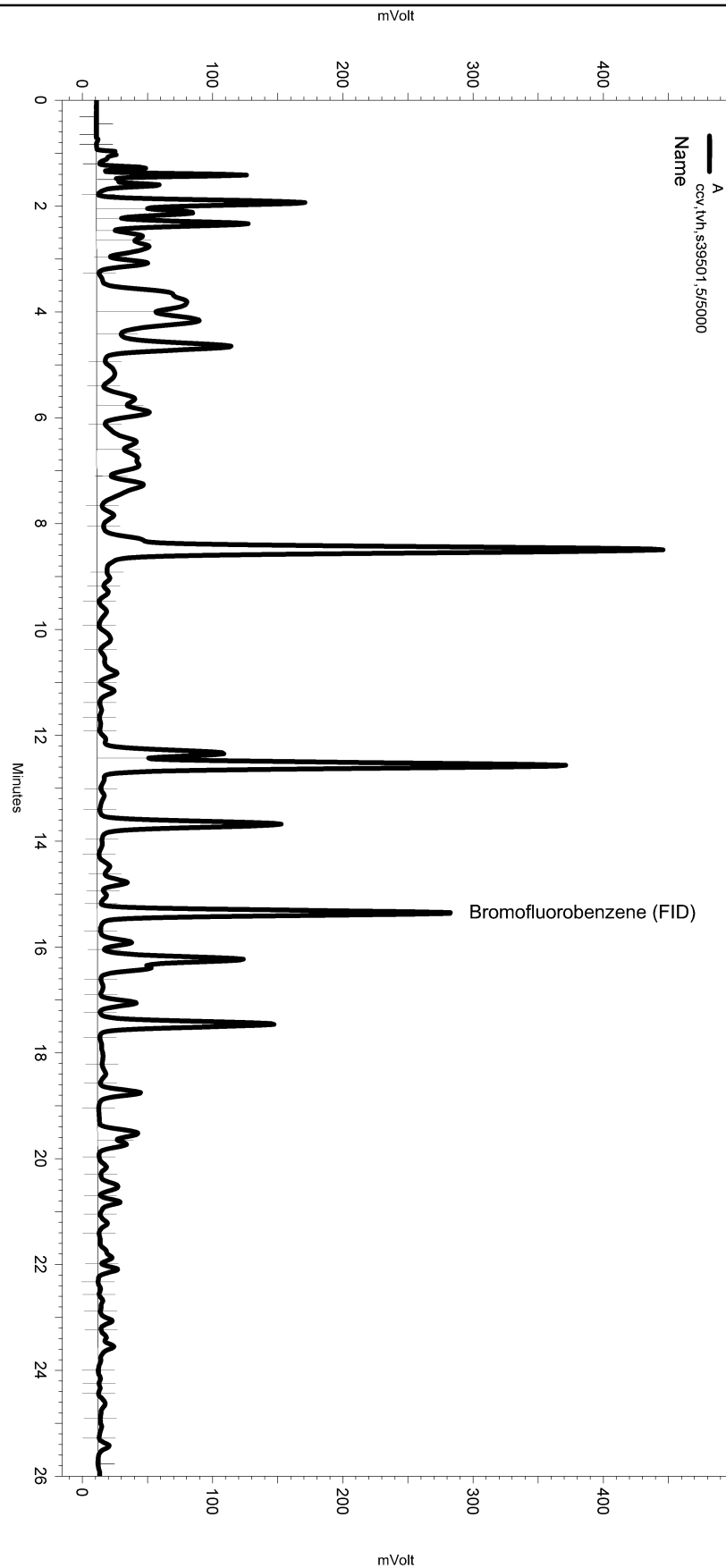
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.000		0.000 BDL
Benzene	3.550	3.500	736127	90.503
Toluene	6.950	6.883	5795570	776.175
Ethylbenzene	10.583	10.599	911208	153.292
m,p-Xylenes	10.933	10.949	4639739	617.298
o-Xylene	11.783	11.799	1518593	202.095
Bromofluorobenzene (PID)	12.699	12.699	5709071	876.359

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\021.seq
 Sample Name: ccv,tvh,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\021-038
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe018.met

Software Version 3.1.7
 Run Date: 1/22/2019 9:31:10 AM
 Analysis Date: 1/22/2019 9:59:53 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\021-038_5A55.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 306574

ANALYTICAL REPORT

TPH-Extractables by GC

TRC Solutions Inc.
505 Sansome St
San Francisco, CA 94111

Project : 285830.02A.01
Location : Riley Soil Investigation
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	306574-001
BR11-1GW02	306574-002
BR11-1GW03	306574-003
DUP01182019-01	306574-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 02/05/2019

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

**CASE NARRATIVE
TPH-EXTRACTABLES BY GC (EPA 8015B)**

Laboratory number: **306574**
Client: **TRC Solutions Inc.**
Project: **285830.02A.01**
Location: **Riley Soil Investigation**
Request Date: **01/18/19**
Samples Received: **01/18/19**

This data package contains sample and QC results for four water samples, requested for the above referenced project on 01/18/19. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):

High recovery was observed for diesel C10-C24 in the LCS for batch 267176.

No other analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY

ENTHALPY
ANALYTICAL
Formerly Curtis & Tompkins Labs

2323 Fifth Street
Berkeley, CA 94710
Phone (510) 486-0900
Fax (510) 486-0532

Project No: 285830.02A.01

Project Name: Riley Avenue

Project P. O. No: 122947

EDD Format: I II III IV Standard

Turnaround Time: RUSH Standard

Sampler: Kevin Li, Nate Bernbe

Report To: Alfonso Ang

Company: TRC Solutions

Telephone: (415) 786-7830

Email: ang@trcsolutions.com

Page 1 of 1

Chain of Custody # _____

C&T LOGIN # 306574

ANALYTICAL REQUEST

Sample ID	TPH-9 + BTEX - 8015/8021	TPH-d, TPH-mo. with 56C - 8015	TPH-d, TPH-mo. w/out 56C - 8015	PAHs - 8270 SIM	Total Dissolved Solids (TDS) - SM2540C
BR11-1GW01	X	X	X	X	X
BR11-1GW02	X	X	X	X	X
BR11-1GW03	X	X	X	X	X
DUP01182019-01	X	X	X	X	X
TB01182019	X	X	X	X	X

Lab No.	Sample ID	SAMPLING		MATRIX	# of Containers	CHEMICAL PRESERVATIVE							
		Date Collected	Time Collected			Water	Solid	HCl	H2SO4	HNO3	NaOH	None	
	BR11-1GW01	01/18/19	11:11	X	9	X							
	BR11-1GW02		12:42	X	9	X							
	BR11-1GW03		9:54	X	9	X							
	DUP01182019-01		11:11	X	9	X							
	TB01182019		13:00	X	1	X							

Notes: Include Geotracker EDF
All results reported on a dry weight basis.
Please email cc the following:
jhenzel-dumbin@trcsolutions.com
klee@trcsolutions.com
nberube@trcsolutions.com
Smilcan@trcsolutions.com
mpetlinkin@trcsolutions.com

RECEIVED BY: _____ DATE: 1-18-19 TIME: 4:25
RELINQUISHED BY: [Signature] DATE: 01/18/19 TIME: 16:25
[Signature] DATE: 1-18-19 TIME: 17:25

Report Level IV data packages and include chromatographs

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 306574
 Date Received: 1/18/19

Client: TRE
 Project: _____

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun # A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 1/18/19 By (print) AC (sign) [Signature]
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 4.2, #2: 4.9, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	/		
Were Method 5035 sampling containers present?			/
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm absent in VOA samples?		/	
Was the client contacted concerning this sample delivery?		/	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			/
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:
 Explanations/Comments: X Sample 5 1/1 UO2's arrived with bubbles

Date Logged In 1/18/19 By (print) AC (sign) [Signature]
 Date Labeled 1/19/19 By (print) AC (sign) [Signature]

Results & QC Summary

Total Extractable Hydrocarbons

Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	01/18/19
Units:	ug/L	Received:	01/18/19
Diln Fac:	1.000	Prepared:	01/23/19
Batch#:	267176		

Field ID: BR11-1GW01 Lab ID: 306574-001
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C10-C24	91 Y	48	01/30/19
Diesel C10-C24 (SGCU)	ND	48	01/26/19
Motor Oil C24-C36	ND	290	01/30/19
Motor Oil C24-C36 (SGCU)	ND	290	01/26/19

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	88	68-124	01/30/19
o-Terphenyl (SGCU)	68	68-124	01/26/19

Field ID: BR11-1GW02 Lab ID: 306574-002
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C10-C24	75 Y	48	01/30/19
Diesel C10-C24 (SGCU)	ND	48	01/27/19
Motor Oil C24-C36	ND	290	01/30/19
Motor Oil C24-C36 (SGCU)	ND	290	01/27/19

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	89	68-124	01/30/19
o-Terphenyl (SGCU)	84	68-124	01/27/19

Field ID: BR11-1GW03 Lab ID: 306574-003
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C10-C24	160 Y	50	01/30/19
Diesel C10-C24 (SGCU)	ND	50	01/27/19
Motor Oil C24-C36	ND	300	01/30/19
Motor Oil C24-C36 (SGCU)	ND	300	01/27/19

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	87	68-124	01/30/19
o-Terphenyl (SGCU)	74	68-124	01/27/19

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	01/18/19
Units:	ug/L	Received:	01/18/19
Diln Fac:	1.000	Prepared:	01/23/19
Batch#:	267176		

Field ID: DUP01182019-01
 Type: SAMPLE

Lab ID: 306574-004
 Cleanup Method: EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C10-C24	110 Y	50	02/04/19
Diesel C10-C24 (SGCU)	ND	50	01/27/19
Motor Oil C24-C36	ND	300	02/04/19
Motor Oil C24-C36 (SGCU)	ND	300	01/27/19

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	104	68-124	02/04/19
o-Terphenyl (SGCU)	90	68-124	01/27/19

Type: BLANK
 Lab ID: QC962306

Cleanup Method: EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C10-C24	ND	50	01/30/19
Diesel C10-C24 (SGCU)	ND	50	01/26/19
Motor Oil C24-C36	ND	300	01/30/19
Motor Oil C24-C36 (SGCU)	ND	300	01/26/19

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	90	68-124	01/30/19
o-Terphenyl (SGCU)	68	68-124	01/26/19

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Batch QC Report

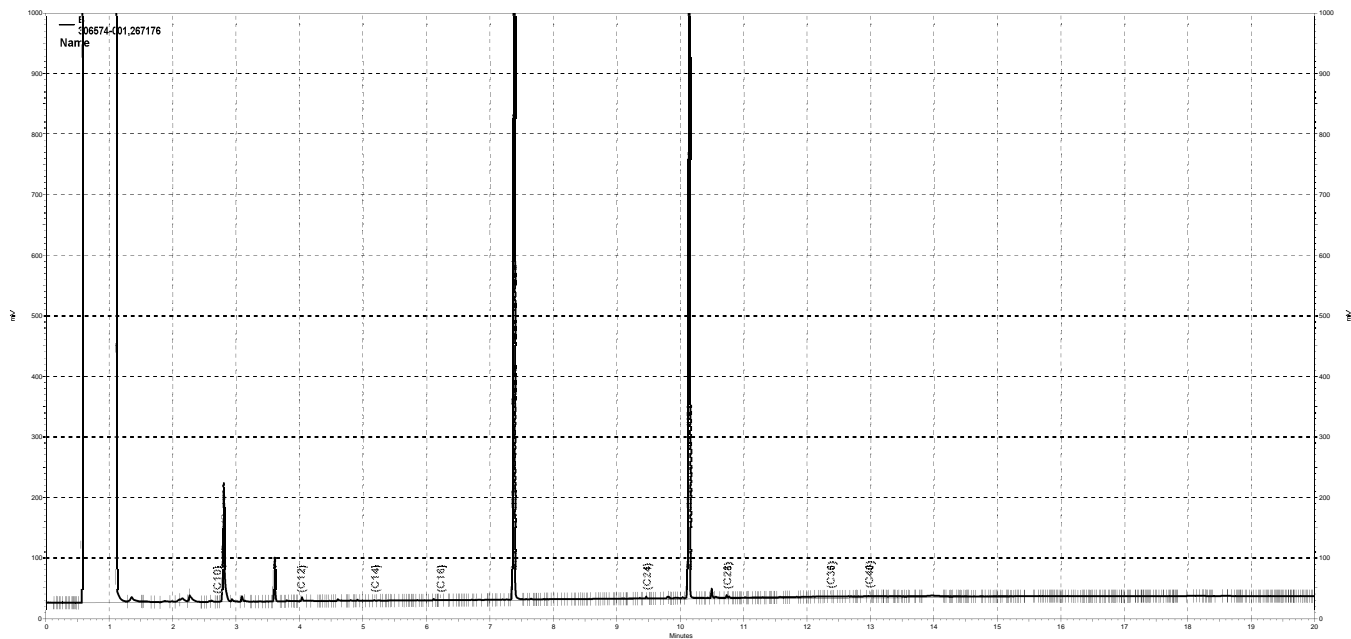
Total Extractable Hydrocarbons			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC962307	Batch#:	267176
Matrix:	Water	Prepared:	01/23/19
Units:	ug/L		

Cleanup Method: EPA 3630C

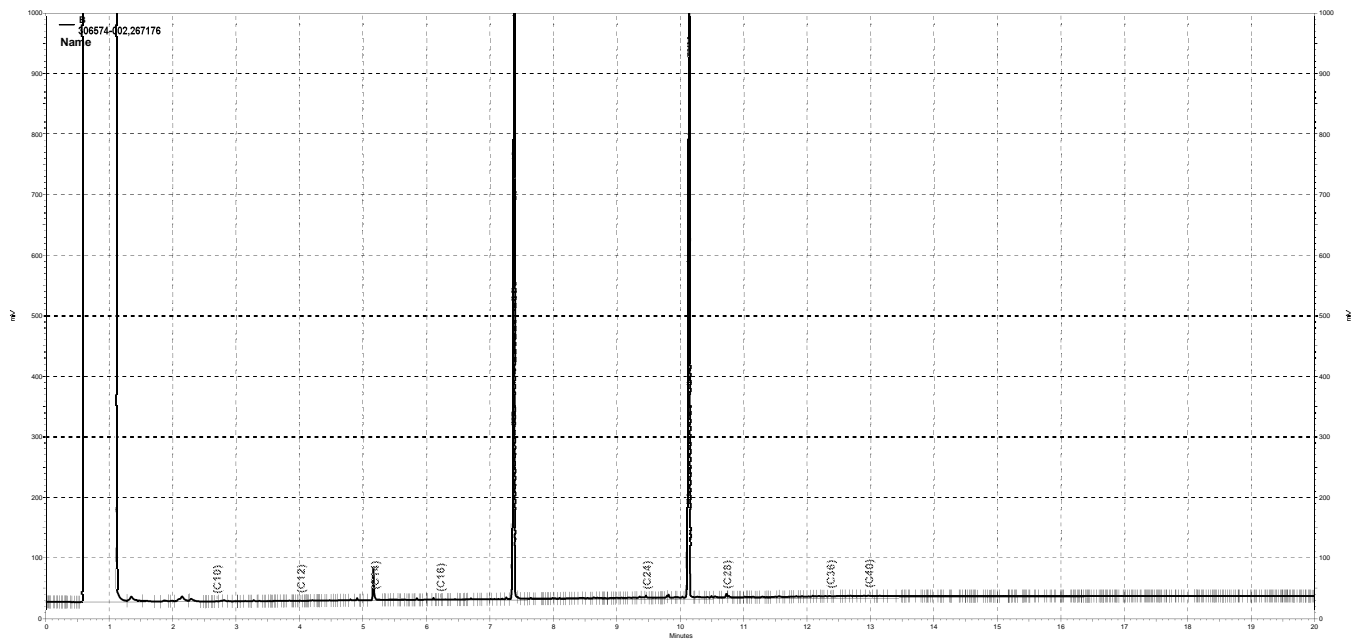
Analyte	Spiked	Result	%REC	Limits	Analyzed
Diesel C10-C24	2,500	3,119	125 *	64-120	01/30/19
Diesel C10-C24 (SGCU)	2,500	2,050	82	64-120	01/26/19

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	124	68-124	01/30/19
o-Terphenyl (SGCU)	86	68-124	01/26/19

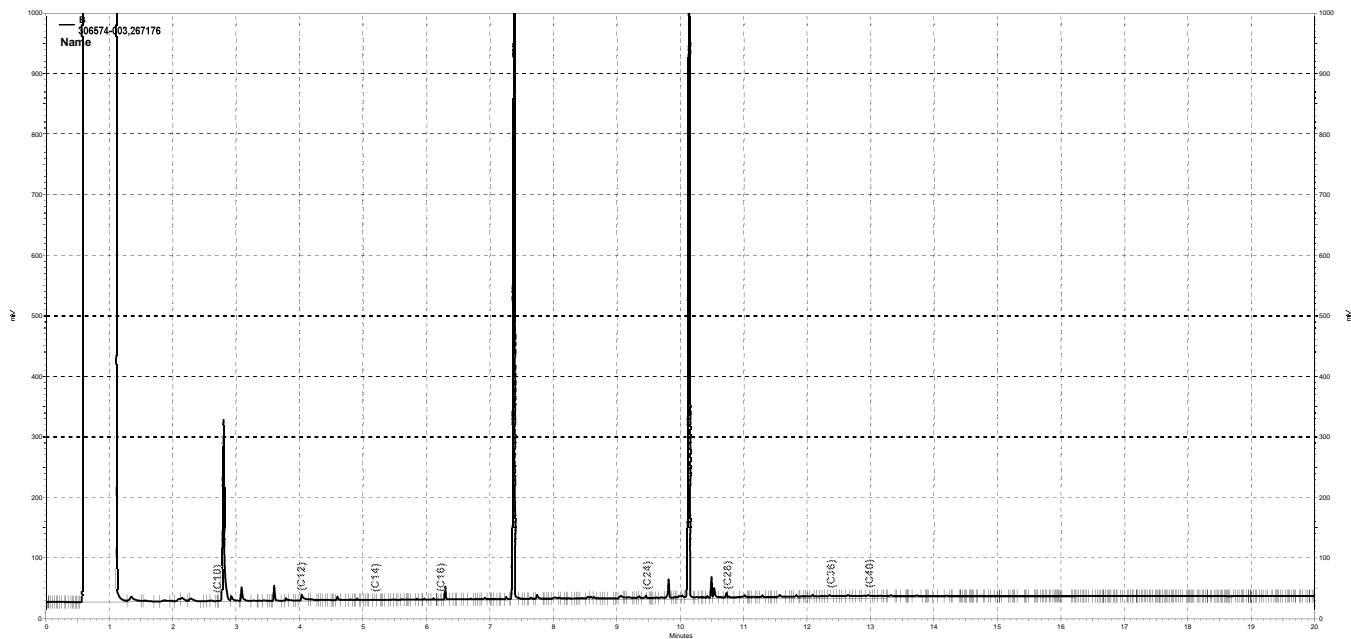
*= Value outside of QC limits; see narrative
 SGCU= Silica gel cleanup



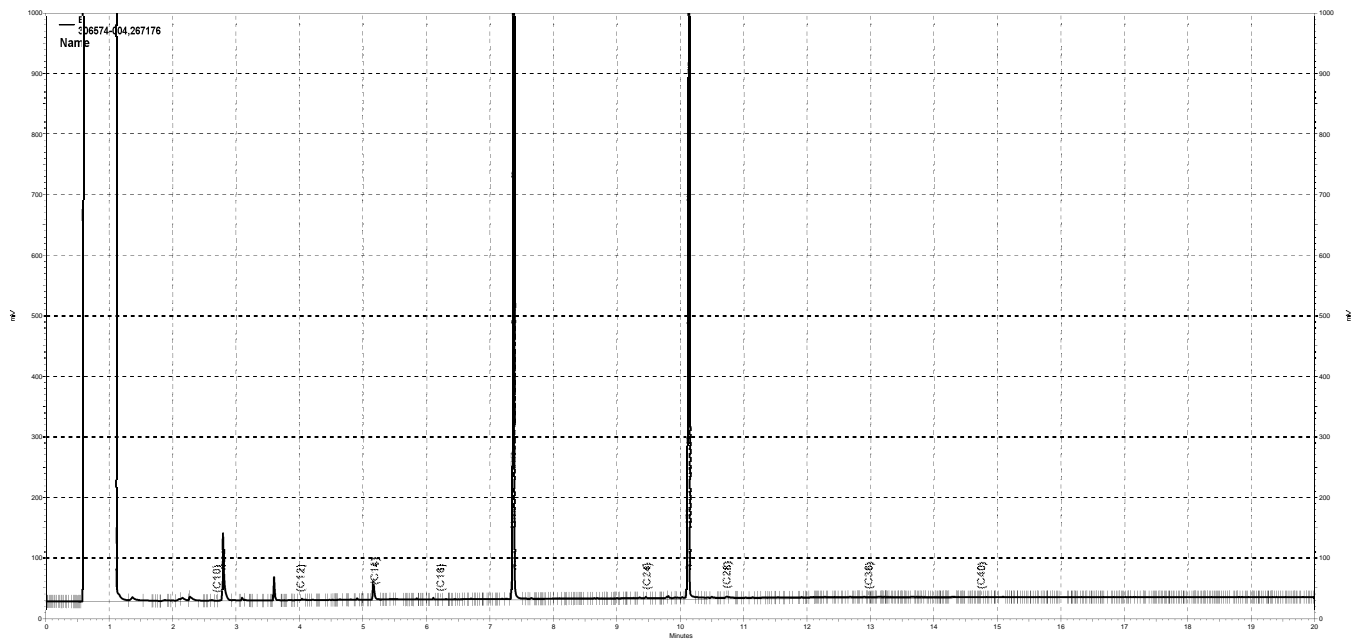
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104, B



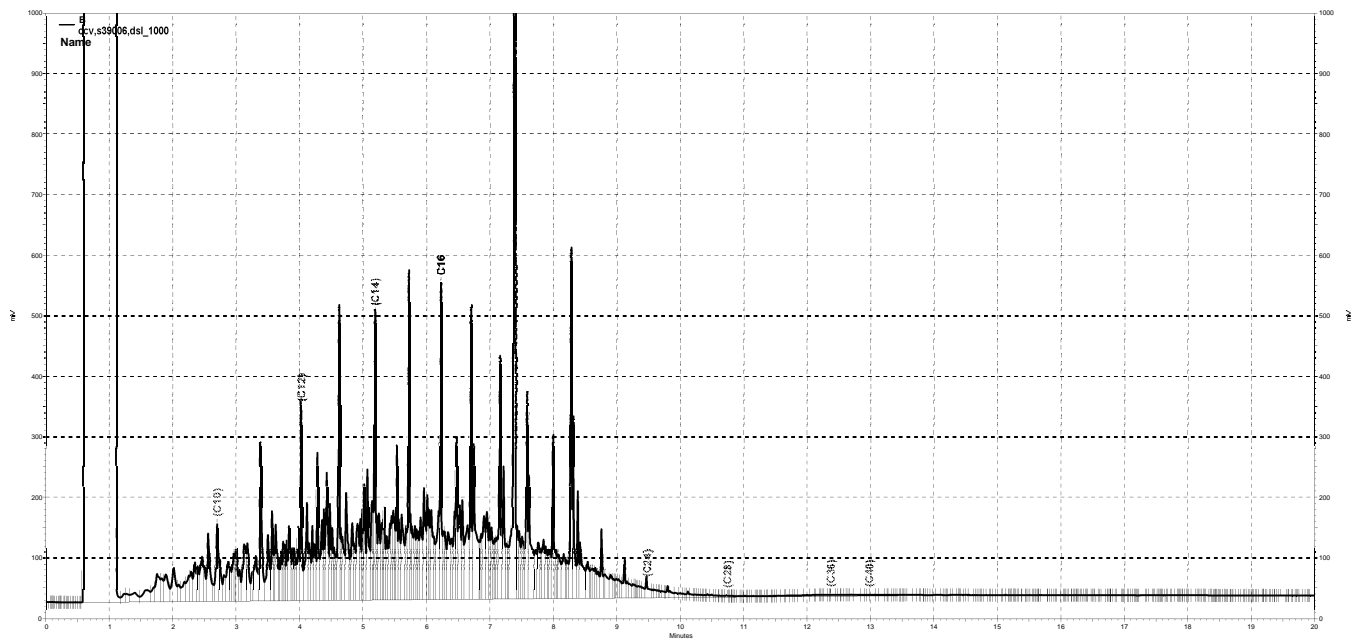
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105, B



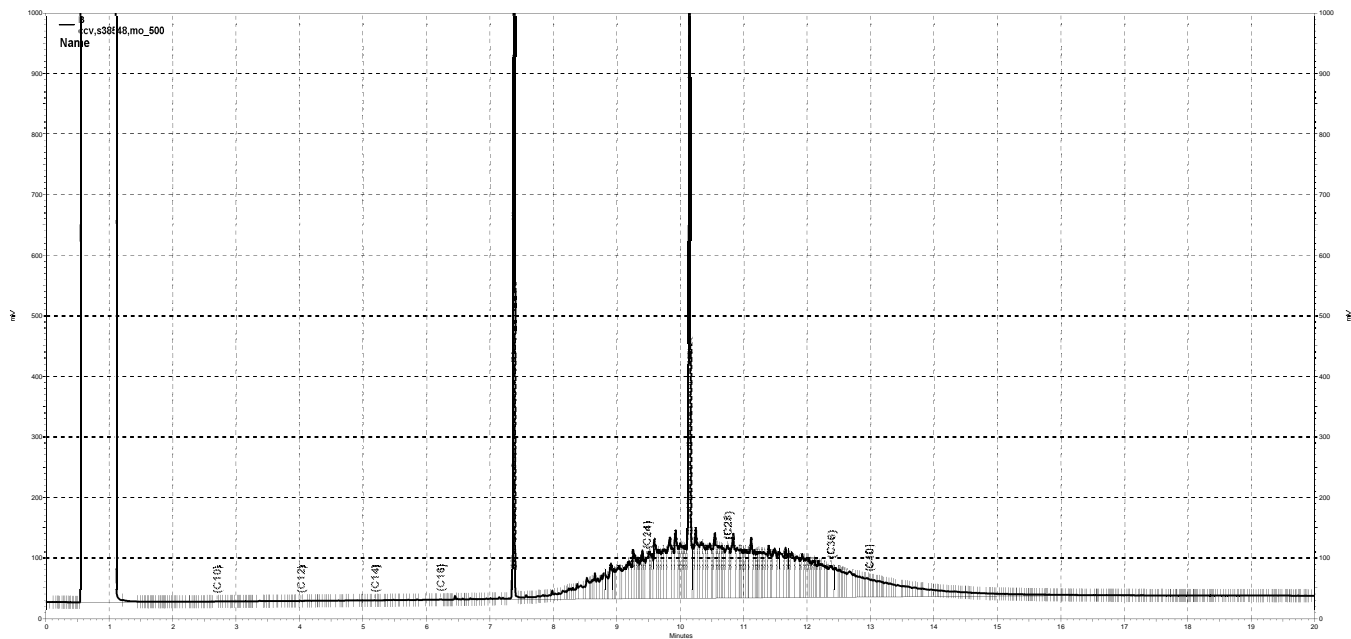
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106, B



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012, B



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b082, B



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b083, B

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229015071001
 Units : mg/L

Name : MO_010
 Date : 10-JAN-2019 11:39
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	010_002	229015071002	MO_50	10-JAN-2019 11:39	S38928
L2	010_003	229015071003	MO_250	10-JAN-2019 12:06	S38929
L3	010_004	229015071004	MO_500	10-JAN-2019 12:33	S38930
L4	010_005	229015071005	MO_1000	10-JAN-2019 13:00	S38931
L5	010_006	229015071006	MO_2500	10-JAN-2019 13:27	S38765 (2X)
L6	010_007	229015071007	MO_5000	10-JAN-2019 13:54	S38765

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	31869	31020	31949	31240	32204	31506	AVRG		3.16E-5		31631	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	1	250.00	-2	500.00	1	1000.0	-1	2500.0	2	5000.0	0

TKY 01/10/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY Date: 01/10/19 Reviewer: EAH Date: 01/10/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 229015071001

Name : MO_010
Cal Date : 10-JAN-2019

ICV 229015071009 (010_009 10-JAN-2019) stds: S38548

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	B	500.0	474.9	mg/L	-5	15	

Analyst: TKY

Date: 01/10/19

Reviewer: EAH

Date: 01/10/19

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229016966001
 Units : mg/L

Name : HEX OTP_011
 Date : 11-JAN-2019 19:14
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	011_002	229016966002	HEX OTP_2.5	11-JAN-2019 19:14	S38295 (2X)
L2	011_003	229016966003	HEX OTP_5	11-JAN-2019 19:41	S38295
L3	011_004	229016966004	HEX OTP_10	11-JAN-2019 20:08	S38296
L4	011_005	229016966005	HEX OTP_25	11-JAN-2019 20:35	S38297
L5	011_006	229016966006	HEX OTP_50	11-JAN-2019 21:02	S38299 (2X)
L6	011_007	229016966007	HEX OTP_100	11-JAN-2019 21:29	S38299

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	52872	54383	51075	50650	52824	51635	AVRG		1.91E-5		52240	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	1	5.0000	4	10.000	-2	25.000	-3	50.000	1	100.00	-1

TKY 01/14/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY

Date: 01/14/19

Reviewer: AMP

Date: 01/14/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229036718001
 Units : mg/L

Name : GC14B_DSL_025
 Date : 25-JAN-2019 15:20
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	025_007	229036718007	DSL_10	25-JAN-2019 15:20	S38234
L2	025_008	229036718008	DSL_100	25-JAN-2019 15:46	S38235
L3	025_009	229036718009	DSL_500	25-JAN-2019 16:13	S38236
L4	025_010	229036718010	DSL_1000	25-JAN-2019 16:40	S38237
L5	025_011	229036718011	DSL_5000	25-JAN-2019 17:07	S38233

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	48614	39844	43409	39441	39090	AVRG		2.38E-5		42080	10	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	16	100.00	-5	500.00	3	1000.0	-6	5000.0	-7

TKY 01/28/19 : Corrected automatically drawn baseline in DSL_10 (025_007).
 TKY 01/28/19 : Corrected automatically drawn baseline in DSL_100 (025_008).
 TKY 01/28/19 : Corrected automatically drawn baseline in DSL_1000 (025_010).

Analyst: TKY Date: 01/28/19 Reviewer: EAH Date: 01/28/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 229036718001

Name : GC14B_DSL_025
Cal Date : 25-JAN-2019

ICV 229036718013 (025_013 25-JAN-2019) stds: S39005

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	435.2	mg/L	-13	15	

Analyst: VO

Date: 01/27/19

Reviewer: EAH

Date: 01/28/19

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229046549001
 Units : mg/L

Name : HEX OTP_032
 Date : 01-FEB-2019 17:37
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_008	229046549008	HEX OTP_2.5	01-FEB-2019 17:37	S38295 (2X)
L2	032_009	229046549009	HEX OTP_5	01-FEB-2019 18:04	S38295
L3	032_010	229046549010	HEX OTP_10	01-FEB-2019 18:32	S38296
L4	032_011	229046549011	HEX OTP_25	01-FEB-2019 18:59	S38297
L5	032_012	229046549012	HEX OTP_50	01-FEB-2019 19:26	S38299 (2X)
L6	032_013	229046549013	HEX OTP_100	01-FEB-2019 19:53	S38299

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	43359	43885	43906	42921	44488	43099	AVRG		2.29E-5		43610	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	-1	5.0000	1	10.000	1	25.000	-2	50.000	2	100.00	-1

TKY 02/04/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY

Date: 02/04/19

Reviewer: EAH

Date: 02/04/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229046549002
 Units : mg/L

Name : MO_032
 Date : 01-FEB-2019 20:48
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_015	229046549015	MO_50	01-FEB-2019 20:48	S39615
L2	032_016	229046549016	MO_250	01-FEB-2019 21:15	S39616
L3	032_017	229046549017	MO_500	01-FEB-2019 21:42	S39617
L4	032_018	229046549018	MO_1000	01-FEB-2019 22:10	S39618
L5	032_019	229046549019	MO_2500	01-FEB-2019 22:37	S39614 (2X)
L6	032_020	229046549020	MO_5000	01-FEB-2019 23:04	S39614

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30493	29047	27885	28353	28408	26280	AVRG		3.52E-5		28411	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	7	250.00	2	500.00	-2	1000.0	0	2500.0	0	5000.0	-8

TKY 02/04/19 : Corrected automatically drawn baseline in MO_50 (032_015).
 TKY 02/04/19 : Corrected automatically drawn baseline in MO_250 (032_016).
 TKY 02/04/19 : Corrected automatically drawn baseline in MO_500 (032_017).
 TKY 02/04/19 : Corrected automatically drawn baseline in MO_1000 (032_018).
 TKY 02/04/19 : Corrected automatically drawn baseline in MO_2500 (032_019).

Analyst: TKY Date: 02/04/19 Reviewer: EAH Date: 02/04/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 229046549002

Name : MO_032
Cal Date : 01-FEB-2019

ICV 229046549022 (032_022 01-FEB-2019) stds: S39627

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	B	500.0	475.9	mg/L	-5	15	

Analyst: TKY

Date: 02/04/19

Reviewer: EAH

Date: 02/04/19

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 979016508005
 Units : mg/L

Name : HEX OTP_011
 Date : 11-JAN-2019 19:18
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	011a007	979016508007	HEX OTP_2.5	11-JAN-2019 19:18	S38295 (2X)
L2	011a008	979016508008	HEX OTP_5	11-JAN-2019 19:43	S38295
L3	011a009	979016508009	HEX OTP_10	11-JAN-2019 20:07	S38296
L4	011a010	979016508010	HEX OTP_25	11-JAN-2019 20:31	S38297
L5	011a011	979016508011	HEX OTP_50	11-JAN-2019 20:56	S38299 (2X)
L6	011a012	979016508012	HEX OTP_100	11-JAN-2019 21:20	S38299

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	439319	435897	426688	423207	447972	403300	AVRG		2.33E-6		429397	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	2	5.0000	2	10.000	-1	25.000	-1	50.000	4	100.00	-6

TKY 01/14/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY

Date: 01/14/19

Reviewer: EAH

Date: 01/14/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 979016508004
 Units : mg/L

Name : DSL_011
 Date : 11-JAN-2019 22:09
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	011a014	979016508014	DSL_10	11-JAN-2019 22:09	S38234
L2	011a015	979016508015	DSL_100	11-JAN-2019 22:33	S38235
L3	011a016	979016508016	DSL_500	11-JAN-2019 22:58	S38236
L4	011a017	979016508017	DSL_1000	11-JAN-2019 23:22	S38237
L5	011a018	979016508018	DSL_5000	11-JAN-2019 23:47	S38233

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	329470	373051	400231	377372	371906	AVRG		2.70E-6		370406	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-11	100.00	1	500.00	8	1000.0	2	5000.0	0

TKY 01/14/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY

Date: 01/14/19

Reviewer: EAH

Date: 01/14/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A
Calnum : 979016508004

Name : DSL_011
Cal Date : 11-JAN-2019

ICV 979016508020 (011a020 12-JAN-2019) stds: S39005

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	490.9	mg/L	-2	15	

Analyst: TKY

Date: 01/14/19

Reviewer: EAH

Date: 01/14/19

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 979020789002
 Units : mg/L

Name : MO_14a
 Date : 14-JAN-2019 23:25
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	014a032	979020789032	MO_50	14-JAN-2019 23:25	S38928
L2	014a033	979020789033	MO_250	14-JAN-2019 23:49	S38929
L3	014a034	979020789034	MO_500	15-JAN-2019 00:13	S38930
L4	014a035	979020789035	MO_1000	15-JAN-2019 00:37	S38931
L5	014a036	979020789036	MO_2500	15-JAN-2019 01:01	S38765 (2X)
L6	014a037	979020789037	MO_5000	15-JAN-2019 01:25	S38765

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	196431	227837	219234	248663	275489	272732	AVRG		4.17E-6		240064	13	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-18	250.00	-5	500.00	-9	1000.0	4	2500.0	15	5000.0	14

TKY 01/16/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY

Date: 01/16/19

Reviewer: EAH

Date: 01/16/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A
Calnum : 979020789002

Name : MO_14a
Cal Date : 14-JAN-2019

ICV 979020789039 (014a039 15-JAN-2019) stds: S38548

Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	492.4	mg/L	-2	15	

Analyst: TKY

Date: 01/16/19

Reviewer: EAH

Date: 01/16/19

Carbon Marker Run

Inst : GC14B
 Seqnum : 229036718015
 Standards: S39447

Run Name : C10-C40
 File : 025_015

IDF : 1.0
 Time : 25-JAN-2019 18:56

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	2.702	+/- 4.5s (0.075m)	2.627 - 2.777
C12 - n-Dodecane	B	4.025	+/- 4.5s (0.075m)	3.950 - 4.100
C14 - n-Tetradecane	B	5.19	+/- 4.5s (0.075m)	5.115 - 5.265
C16 - n-Hexadecane	B	6.225	+/- 4.5s (0.075m)	6.150 - 6.300
C18 - n-Octadecane	B	7.155	+/- 4.5s (0.075m)	7.080 - 7.230
C20 - n-Eicosane	B	7.998	+/- 4.5s (0.075m)	7.923 - 8.073
C22 - n-Docosane	B	8.77	+/- 4.5s (0.075m)	8.695 - 8.845
C24 - n-Tetracosane	B	9.478	+/- 4.5s (0.075m)	9.403 - 9.553
C28 - n-Octacosane	B	10.747	+/- 4.5s (0.075m)	10.672 - 10.822
C30 - n-Triacontane	B	11.315	+/- 4.5s (0.075m)	11.240 - 11.390
C32 - n-Dotriacontane	B	11.848	+/- 4.5s (0.075m)	11.773 - 11.923
C34 - n-Tetracontane	B	12.373	+/- 4.5s (0.075m)	12.298 - 12.448
C36 - n-Hexatriacontane	B	12.982	+/- 4.5s (0.075m)	12.907 - 13.057
C40 - n-Tetracontane	B	14.757	+/- 4.5s (0.075m)	14.682 - 14.832

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	2.627	6.300
Diesel C10-C22	B	2.627	8.845
Diesel C10-C24	B	2.627	9.553
Diesel C10-C28	B	2.627	10.822
Diesel C12-C24	B	3.950	9.553
Diesel C12-C28	B	3.950	10.822
Diesel C16-C24	B	6.150	9.553
Motor Oil C22-C32	B	8.695	11.923
Motor Oil C24-C36	B	9.403	13.057
Motor Oil C28-C40	B	10.672	14.832
Bunker C C10-C40	B	2.627	14.832
Bunker C C12-C40	B	3.950	14.832
Diesel C10-C14	B	2.627	5.265
Diesel C14-C24	B	5.115	9.553

EZChrom method retention times successfully validated.

Analyst: TKY

Date: 01/28/19

Reviewer: EAH

Date: 01/28/19

Carbon Marker Run

Inst : GC14B
 Seqnum : 229046549024
 Standards: S39447

Run Name : C10-C40
 File : 032_024

IDF : 1.0
 Time : 02-FEB-2019 00:53

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	2.698	+/- 4.5s (0.075m)	2.623 - 2.773
C12 - n-Dodecane	B	4.018	+/- 4.5s (0.075m)	3.943 - 4.093
C14 - n-Tetradecane	B	5.183	+/- 4.5s (0.075m)	5.108 - 5.258
C16 - n-Hexadecane	B	6.22	+/- 4.5s (0.075m)	6.145 - 6.295
C18 - n-Octadecane	B	7.15	+/- 4.5s (0.075m)	7.075 - 7.225
C20 - n-Eicosane	B	7.992	+/- 4.5s (0.075m)	7.917 - 8.067
C22 - n-Docosane	B	8.763	+/- 4.5s (0.075m)	8.688 - 8.838
C24 - n-Tetracosane	B	9.472	+/- 4.5s (0.075m)	9.397 - 9.547
C28 - n-Octacosane	B	10.737	+/- 4.5s (0.075m)	10.662 - 10.812
C30 - n-Triacontane	B	11.308	+/- 4.5s (0.075m)	11.233 - 11.383
C32 - n-Dotriacontane	B	11.842	+/- 4.5s (0.075m)	11.767 - 11.917
C34 - n-Tetratriacontane	B	12.363	+/- 4.5s (0.075m)	12.288 - 12.438
C36 - n-HexatriacontaneC36	B	12.973	+/- 4.5s (0.075m)	12.898 - 13.048
C40 - n-Tetracontane	B	14.745	+/- 4.5s (0.075m)	14.670 - 14.820

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	2.623	6.295
Diesel C10-C22	B	2.623	8.838
Diesel C10-C24	B	2.623	9.547
Diesel C10-C28	B	2.623	10.812
Diesel C12-C24	B	3.943	9.547
Diesel C12-C28	B	3.943	10.812
Diesel C16-C24	B	6.145	9.547
Motor Oil C22-C32	B	8.688	11.917
Motor Oil C24-C36	B	9.397	13.048
Motor Oil C28-C40	B	10.662	14.820
Bunker C C10-C40	B	2.623	14.820
Bunker C C12-C40	B	3.943	14.820
Diesel C10-C14	B	2.623	5.258
Diesel C14-C24	B	5.108	9.547

EZChrom method retention times successfully validated.

Analyst: TKY

Date: 02/04/19

Reviewer: EAH

Date: 02/04/19

Carbon Marker Run

Inst : GC27A
 Seqnum : 979030726007
 Standards: S39447

Run Name : C10-C40
 File : 021a007

IDF : 1.0
 Time : 21-JAN-2019 11:59

Analyte	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	2.23	+/- 4.5s (0.075m)	2.155 - 2.305
C12 - n-Dodecane	3.447	+/- 4.5s (0.075m)	3.372 - 3.522
C14 - n-Tetradecane	4.503	+/- 4.5s (0.075m)	4.428 - 4.578
C16 - n-Hexadecane	5.435	+/- 4.5s (0.075m)	5.360 - 5.510
C18 - n-Octadecane	6.277	+/- 4.5s (0.075m)	6.202 - 6.352
C20 - n-Eicosane	7.042	+/- 4.5s (0.075m)	6.967 - 7.117
C22 - n-Docosane	7.743	+/- 4.5s (0.075m)	7.668 - 7.818
C24 - n-Tetracosane	8.392	+/- 4.5s (0.075m)	8.317 - 8.467
C28 - n-Octacosane	9.552	+/- 4.5s (0.075m)	9.477 - 9.627
C30 - n-Triacontane	10.075	+/- 4.5s (0.075m)	10.000 - 10.150
C32 - n-Dotriacontane	10.572	+/- 4.5s (0.075m)	10.497 - 10.647
C34 - n-Tetratriacontane	11.038	+/- 4.5s (0.075m)	10.963 - 11.113
C36 - n-Hexatriacontane	11.483	+/- 4.5s (0.075m)	11.408 - 11.558
C40 - n-Tetracontane	12.323	+/- 4.5s (0.075m)	12.248 - 12.398

Carbon Range	Range Start	Range Stop
JP-5 C10-C16	2.155	5.510
Diesel C10-C22	2.155	7.818
Diesel C10-C24	2.155	8.467
Diesel C10-C28	2.155	9.627
Diesel C12-C24	3.372	8.467
Diesel C12-C28	3.372	9.627
Diesel C16-C24	5.360	8.467
Motor Oil C22-C32	7.668	10.647
Motor Oil C24-C36	8.317	11.558
Motor Oil C28-C40	9.477	12.398
Bunker C C10-C40	2.155	12.398
Bunker C C12-C40	3.372	12.398
Diesel C10-C14	2.155	4.578
Diesel C14-C24	4.428	8.467

EZChrom method retention times successfully validated.

Analyst: TKY

Date: 01/21/19

Reviewer: EAH

Date: 01/21/19

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 229040831083 File : 028_083 Time : 29-JAN-2019 23:28
Standards: S38548

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229015071001	10-JAN-2019	31631	30229	500.0	477.8	mg/L	-4	15	
o-Terphenyl	B	229016966001	11-JAN-2019	52240	47975	50.00	45.92	mg/L	-8	15	

VQ 01/30/19 : Corrected automatically drawn baseline.

Analyst: VO Date: 01/30/19 Reviewer: EAH Date: 01/30/19

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229040831097 File : 028_097 Time : 30-JAN-2019 05:49
 Standards: S38548

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229015071001	10-JAN-2019	31631	27248	500.0	430.7	mg/L	-14	15	
o-Terphenyl	B	229016966001	11-JAN-2019	52240	43793	50.00	41.92	mg/L	-16	15	c-

VQ 01/30/19 : Corrected automatically drawn baseline.

Analyst: VO Date: 01/30/19 Reviewer: EAH Date: 01/30/19

--low bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 229050889004 File : 035_004 Time : 04-FEB-2019 09:32
 Standards: S39005

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229036718001	25-JAN-2019	42080	38324	500.0	455.4	mg/L	-9	15	
o-Terphenyl	B	229046549001	01-FEB-2019	43610	46607	50.00	53.44	mg/L	7	15	

TKY 02/04/19 : Corrected automatically drawn baseline.

TKY 02/04/19 : ccv,s39005,dsl_500

Analyst: TKY Date: 02/04/19 Reviewer: EAH Date: 02/04/19

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229050889005 File : 035_005 Time : 04-FEB-2019 09:59
 Standards: S39627

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229046549002	01-FEB-2019	28411	25618	500.0	450.8	mg/L	-10	15	
o-Terphenyl	B	229046549001	01-FEB-2019	43610	43343	50.00	49.69	mg/L	-1	15	

TKY 02/04/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 02/04/19 Reviewer: EAH Date: 02/04/19

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B Run Name : JP5_250 IDF : 1.0
 Seqnum : 229050889007 File : 035_007 Time : 04-FEB-2019 12:44
 Cal : 229046549001 Caldate : 01-FEB-2019
 Standards: S38581

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
o-Terphenyl	B	43610	41858	50.00	47.99	mg/L	-4	15	

Analyst: TKY Date: 02/04/19 Reviewer: EAH Date: 02/04/19

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A Run Name : DSL_250 IDF : 1.0
Seqnum : 979033612177 File : 023a177 Time : 26-JAN-2019 19:43
Standards: S39192

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	979016508004	11-JAN-2019	370406	392158	250.0	264.7	mg/L	6	15	
o-Terphenyl	979016508005	11-JAN-2019	429397	419256	50.00	48.82	mg/L	-2	15	

VQ 01/27/19 : Corrected automatically drawn baseline.

Analyst: VO Date: 01/27/19 Reviewer: EAH Date: 01/28/19
Page 1 of 1 979033612177

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 979033612178 File : 023a178 Time : 26-JAN-2019 20:08
 Standards: S38548

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	979020789002	14-JAN-2019	240064	246859	500.0	514.2	mg/L	3	15	
o-Terphenyl	979016508005	11-JAN-2019	429397	432932	50.00	50.41	mg/L	1	15	

Analyst: VO

Date: 01/27/19

Reviewer: EAH

Date: 01/28/19

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A Run Name : DSL_500 IDF : 1.0
Seqnum : 979033612191 File : 023a191 Time : 27-JAN-2019 01:29
Standards: S39005

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	979016508004	11-JAN-2019	370406	408679	500.0	551.7	mg/L	10	15	
o-Terphenyl	979016508005	11-JAN-2019	429397	486187	50.00	56.61	mg/L	13	15	

VQ 01/27/19 : Corrected automatically drawn baseline.

Analyst: VO Date: 01/27/19 Reviewer: EAH Date: 01/29/19
Page 1 of 1 979033612191

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 979033612192 File : 023a192 Time : 27-JAN-2019 01:54
 Standards: S38548

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	979020789002	14-JAN-2019	240064	257997	500.0	537.3	mg/L	7	15	
o-Terphenyl	979016508005	11-JAN-2019	429397	448122	50.00	52.18	mg/L	4	15	

Analyst: VO Date: 01/27/19 Reviewer: EAH Date: 01/29/19

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229015071

Instrument : GC14B
 Method : EPA 8015B

Begun : 01/10/19 11:11
 SOP Version : TEH_rv21

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	010_001	IB	CALIB			01/10/19 11:11	1.0		
002	010_002	ICAL	MO_50			01/10/19 11:39	1.0	1	
003	010_003	ICAL	MO_250			01/10/19 12:06	1.0	2	
004	010_004	ICAL	MO_500			01/10/19 12:33	1.0	3	
005	010_005	ICAL	MO_1000			01/10/19 13:00	1.0	4	
006	010_006	ICAL	MO_2500			01/10/19 13:27	1.0	5	
007	010_007	ICAL	MO_5000			01/10/19 13:54	1.0	5	
008	010_008	IB	CALIB			01/10/19 14:21	1.0		
009	010_009	ICV	MO_500			01/10/19 14:48	1.0	6	
010	010_010	IB	CALIB			01/10/19 16:25	1.0		
011	010_011	CMARKER	C10-C40			01/10/19 16:52	1.0	7	
012	010_012	IB	CALIB			01/10/19 17:19	1.0		
013	010_013	CCV	DSL_500			01/10/19 19:18	1.0	8	
014	010_014	CCV	MO_500			01/10/19 19:45	1.0	6	
015	010_015	BLANK	QC960369	Water	266680	01/10/19 20:12	1.0		
016	010_016	BS	QC960370	Water	266680	01/10/19 20:39	1.0		
017	010_017	BSD	QC960371	Water	266680	01/10/19 21:06	1.0		
018	010_018	SAMPLE	306181-001	Water	266680	01/10/19 21:33	1.0		
019	010_019	SAMPLE	306181-002	Water	266680	01/10/19 22:00	1.0		
020	010_020	SAMPLE	306141-004	Soil	266635	01/10/19 22:27	20.0		7:BUNKC:12-40=10000
021	010_021	SAMPLE	306141-005	Soil	266635	01/10/19 22:54	20.0		4:BUNKC:12-40=8500
022	010_022	SAMPLE	306141-006	Soil	266635	01/10/19 23:21	10.0		9:BUNKC:12-40=26000
023	010_023	SAMPLE	306101-001	Soil	266538	01/10/19 23:49	1.0		
024	010_024	SAMPLE	306101-004	Soil	266538	01/11/19 00:15	1.0		
025	010_025	SAMPLE	306101-007	Soil	266538	01/11/19 00:43	1.0		
026	010_026	CCV	DSL_250			01/11/19 01:09	1.0	9	
027	010_027	CCV	MO_500			01/11/19 01:36	1.0	6	
028	010_028	X	CMARKER			01/11/19 02:03	1.0	7	
029	010_029	SAMPLE	306168-004	Soil	266674	01/11/19 02:30	5.0		
030	010_030	SAMPLE	306184-001	Soil	266674	01/11/19 02:57	1.0		
031	010_031	SAMPLE	306101-010	Soil	266587	01/11/19 03:24	1.0		
032	010_032	SAMPLE	306150-008	Soil	266674	01/11/19 03:51	5.0		
033	010_033	SAMPLE	306150-012	Soil	266674	01/11/19 04:18	5.0		
034	010_034	SAMPLE	306150-016	Soil	266674	01/11/19 04:45	5.0		
035	010_035	SAMPLE	306191-001	Soil	266674	01/11/19 05:12	5.0		
036	010_036	SAMPLE	306150-004	Soil	266674	01/11/19 05:39	2.0		
037	010_037	SAMPLE	306180-001	Soil	266674	01/11/19 06:07	1.0		
038	010_038	SAMPLE	306091-001	Miscell.	266674	01/11/19 06:34	1.0		
039	010_039	XCCV	DSL_1000			01/11/19 07:01	1.0	10	
040	010_040	CCV	MO_500			01/11/19 07:28	1.0	6	
041	010_041	X	CMARKER			01/11/19 07:56	1.0	7	
042	010_042	SAMPLE	306049-017	Soil	266674	01/11/19 08:23	1.0		sh
043	010_043	SAMPLE	306184-001	Soil	266674	01/11/19 08:51	1.0		
044	010_044	SAMPLE	306159-001	Soil	266674	01/11/19 09:18	1.0		
045	010_045	SAMPLE	306159-002	Soil	266674	01/11/19 09:45	1.0		
046	010_046	SAMPLE	306159-003	Soil	266674	01/11/19 10:12	1.0		
047	010_047	SAMPLE	306159-004	Soil	266674	01/11/19 10:39	1.0		
048	010_048	CCV	DSL_500			01/11/19 11:06	1.0	8	
049	010_049	XCCV	MO_500			01/11/19 11:34	1.0	6	
050	010_050	XCMARKER	C10-C40			01/11/19 12:01	1.0	7	
051	010_051	CCV	MO_500			01/11/19 12:28	1.0	6	
052	010_052	BLANK	QC960729	Soil	266780	01/11/19 12:56	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229015071

Instrument : GC14B Begun : 01/10/19 11:11
 Method : EPA 8015B SOP Version : TEH_rv21

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	010_053	LCS	QC960730	Soil	266780	01/11/19 13:23	1.0		
054	010_054	MSS	306248-001	Soil	266780	01/11/19 13:50	1.0		13:BUNKC:12-40=200000
055	010_055	MS	QC960731	Soil	266780	01/11/19 14:17	1.0		12:BUNKC:12-40=160000
056	010_056	MSD	QC960732	Soil	266780	01/11/19 14:45	1.0		13:BUNKC:12-40=280000
057	010_057	SAMPLE	306205-001	Soil	266780	01/11/19 15:12	1.0		
058	010_058	SAMPLE	306205-002	Soil	266780	01/11/19 15:39	1.0		
059	010_059	SAMPLE	306205-003	Soil	266780	01/11/19 16:06	1.0		
060	010_060	MSS	306248-001	Soil	266780	01/11/19 16:38	50.0		
061	010_061	CCV	DSL_250			01/11/19 17:05	1.0	9	
062	010_062	CCV	MO_500			01/11/19 17:32	1.0	6	
063	010_063	X	CMARKER			01/11/19 17:59	1.0	7	

TKY 01/10/19 : DCM:EM58180

TKY 01/11/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 63.

TKY 01/11/19 : DSL CCV failed at 010_039. Passing DSL CCV within the 12 hour window at 010_047

Standards used: 1=S38928 2=S38929 3=S38930 4=S38931 5=S38765 6=S38548 7=S38220 8=S39005 9=S39192 10=S39006

Flags used: sh=out of sample hold

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229016966

Instrument : GC14B
 Method : EPA 8015B

Begun : 01/11/19 18:46
 SOP Version : TEH_rv21

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	011_001	IB	CALIB			01/11/19 18:46	1.0	
002	011_002	ICAL	HEX OTP_2.5			01/11/19 19:14	1.0	1
003	011_003	ICAL	HEX OTP_5			01/11/19 19:41	1.0	1
004	011_004	ICAL	HEX OTP_10			01/11/19 20:08	1.0	2
005	011_005	ICAL	HEX OTP_25			01/11/19 20:35	1.0	3
006	011_006	ICAL	HEX OTP_50			01/11/19 21:02	1.0	4
007	011_007	ICAL	HEX OTP_100			01/11/19 21:29	1.0	4
008	011_008	IB	CALIB			01/11/19 21:56	1.0	
009	011_009	ICAL	DSL_10			01/11/19 22:23	1.0	5
010	011_010	ICAL	DSL_100			01/11/19 22:50	1.0	6
011	011_011	ICAL	DSL_500			01/11/19 23:17	1.0	7
012	011_012	ICAL	DSL_1000			01/11/19 23:44	1.0	8
013	011_013	ICAL	DSL_5000			01/12/19 00:11	1.0	9
014	011_014	IB	CALIB			01/12/19 00:38	1.0	
015	011_015	ICV	DSL_500			01/12/19 01:05	1.0	10
016	011_016	IB	CALIB			01/12/19 01:32	1.0	
017	011_017	ICAL	JP5_10			01/12/19 01:58	1.0	11
018	011_018	ICAL	JP5_100			01/12/19 02:25	1.0	12
019	011_019	ICAL	JP5_500			01/12/19 02:52	1.0	13
020	011_020	ICAL	JP5_1500			01/12/19 03:18	1.0	14
021	011_021	ICAL	JP5_2500			01/12/19 03:45	1.0	15
022	011_022	ICAL	JP5_5000			01/12/19 04:12	1.0	16
023	011_023	IB	CALIB			01/12/19 04:39	1.0	
024	011_024	CMARKER	C10-C40			01/12/19 05:06	1.0	17
025	011_025	IB	CALIB			01/12/19 05:33	1.0	

TKY 01/14/19 : DCM:EM58180

TKY 01/14/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 25.

Standards used: 1=S38295 2=S38296 3=S38297 4=S38299 5=S38234 6=S38235 7=S38236 8=S38237 9=S38233 10=S39005 11=S39009
 12=S39010 13=S39012 14=S39018 15=S39019 16=S39007 17=S38220

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229036718

Instrument : GC14B Begun : 01/25/19 11:58
 Method : EPA 8015B SOP Version : TEH_rv21

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	025_001	XCMARKER	C10-C40			01/25/19 11:58	1.0	1
002	025_002	CCV	DSL_500			01/25/19 12:31	1.0	2
003	025_003	CCV	MO_500			01/25/19 12:58	1.0	3
004	025_004	CCV	DSL_500			01/25/19 13:28	1.0	2
005	025_005	CCV	DSL_1000			01/25/19 13:55	1.0	4
006	025_006	IB	CALIB			01/25/19 14:52	1.0	
007	025_007	ICAL	DSL_10			01/25/19 15:20	1.0	5
008	025_008	ICAL	DSL_100			01/25/19 15:46	1.0	6
009	025_009	ICAL	DSL_500			01/25/19 16:13	1.0	7
010	025_010	ICAL	DSL_1000			01/25/19 16:40	1.0	8
011	025_011	ICAL	DSL_5000			01/25/19 17:07	1.0	9
012	025_012	IB	CALIB			01/25/19 17:34	1.0	
013	025_013	ICV	DSL_500			01/25/19 18:02	1.0	2
014	025_014	IB	CALIB			01/25/19 18:29	1.0	
015	025_015	CMARKER	C10-C40			01/25/19 18:56	1.0	1
016	025_016	IB	CALIB			01/25/19 19:23	1.0	

TKY 01/25/19 : DCM:EM58264

TKY 01/28/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 16.

TKY 01/28/19 : x'ed out cmarker on run 1 due to ical being run after.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229040831

Instrument : GC14B
 Method : EPA 8015B

Begun : 01/28/19 08:31
 SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	028_001	IB					01/28/19 08:31	1.0		
002	028_002	IB					01/28/19 08:58	1.0		
003	028_003	X	CMARKER				01/28/19 09:25	1.0	1	
004	028_004	CCV	DSL_500				01/28/19 09:52	1.0	2	
005	028_005	CCV	MO_500				01/28/19 10:20	1.0	3	
006	028_006	CCV	JP5				01/28/19 10:47	1.0	4	
007	028_007	BLANK	QC962343		Soil	267185	01/28/19 11:46	1.0		
008	028_008	LCS	QC962344		Soil	267185	01/28/19 12:13	1.0		
009	028_009	MSS	306578-001		Soil	267185	01/28/19 12:40	1.0		
010	028_010	MS	QC962345		Soil	267185	01/28/19 13:07	1.0		
011	028_011	MSD	QC962346		Soil	267185	01/28/19 13:34	1.0		
012	028_012	SAMPLE	306490-001		Soil	267077	01/28/19 14:01	1.0		
013	028_013	SAMPLE	306600-002		Oil	267310	01/28/19 14:29	1.0		
014	028_014	SAMPLE	306600-001		Oil	267310	01/28/19 14:56	1.0		
015	028_015	IB					01/28/19 15:23	1.0		
016	028_016	IB					01/28/19 15:50	1.0		
017	028_017	SAMPLE	306503-004		Soil	267031	01/28/19 16:17	1.0		
018	028_018	CCV	DSL_250				01/28/19 16:44	1.0	5	
019	028_019	CCV	MO_500				01/28/19 17:11	1.0	3	
020	028_020	CCV	JP5				01/28/19 17:38	1.0	4	
021	028_021	CCV	HYFL_500				01/28/19 18:05	1.0	6	
022	028_022	X	CMARKER				01/28/19 18:32	1.0	1	
023	028_023	BLANK	QC961156		Soil	266891	01/28/19 18:59	1.0		
024	028_024	BLANK	QC962525		Soil	267232	01/28/19 19:27	1.0		
025	028_025	BLANK	QC962343		Soil	267185	01/28/19 19:54	1.0		
026	028_026	BLANK	QC961617		Soil	267007	01/28/19 20:21	1.0		
027	028_027	LCS	QC962526		Soil	267232	01/28/19 20:48	1.0		
028	028_028	SAMPLE	306444-001		Soil	267007	01/28/19 21:15	1.0		
029	028_029	SAMPLE	306553-001		Soil	267185	01/28/19 21:43	1.0		
030	028_030	MSS	306258-001		Soil	266891	01/28/19 22:10	1.0		
031	028_031	SAMPLE	306258-002		Soil	266891	01/28/19 22:37	1.0		
032	028_032	SAMPLE	306258-003		Soil	266891	01/28/19 23:04	1.0		
033	028_033	SAMPLE	306258-004		Soil	266891	01/28/19 23:31	1.0		
034	028_034	SAMPLE	306258-005		Soil	266891	01/28/19 23:58	1.0		
035	028_035	CCV	DSL_1000				01/29/19 00:25	1.0	7	
036	028_036	CCV	MO_500				01/29/19 00:52	1.0	3	
037	028_037	CCV	JP5				01/29/19 01:19	1.0	4	
038	028_038	CCV	HYFL_500				01/29/19 01:46	1.0	6	
039	028_039	X	CMARKER				01/29/19 02:14	1.0	1	
040	028_040	MSS	306276-011		Soil	267232	01/29/19 02:41	1.0		sh
041	028_041	MS	QC962527		Soil	267232	01/29/19 03:09	1.0		
042	028_042	MSD	QC962528		Soil	267232	01/29/19 03:36	1.0		
043	028_043	SAMPLE	306276-001		Soil	267232	01/29/19 04:04	1.0		sh
044	028_044	SAMPLE	306276-002		Soil	267232	01/29/19 04:31	1.0		sh , 3:DSL:10-14=11000
045	028_045	SAMPLE	306276-003		Soil	267232	01/29/19 04:58	1.0		sh
046	028_046	SAMPLE	306276-004		Soil	267232	01/29/19 05:26	1.0		sh
047	028_047	SAMPLE	306276-005		Soil	267232	01/29/19 05:53	1.0		sh
048	028_048	SAMPLE	306276-006		Soil	267232	01/29/19 06:21	1.0		sh
049	028_049	SAMPLE	306276-007		Soil	267232	01/29/19 06:49	1.0		sh
050	028_050	CCV	DSL_500				01/29/19 07:16	1.0	2	
051	028_051	CCV	MO_500				01/29/19 07:44	1.0	3	
052	028_052	CCV	JP5				01/29/19 08:11	1.0	4	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229040831

Instrument : GC14B
 Method : EPA 8015B

Begun : 01/28/19 08:31
 SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	028_053	X	CMARKER				01/29/19 08:39	1.0	1	
054	028_054	SAMPLE	306276-008		Soil	267232	01/29/19 09:06	1.0		sh
055	028_055	SAMPLE	306276-009		Soil	267232	01/29/19 09:33	1.0		sh
056	028_056	SAMPLE	306276-010		Soil	267232	01/29/19 10:00	1.0		sh
057	028_057	SAMPLE	306276-012		Soil	267232	01/29/19 10:28	1.0		sh
058	028_058	SAMPLE	306276-013		Soil	267232	01/29/19 10:56	1.0		sh
059	028_059	SAMPLE	306579-014	S	Soil	267194	01/29/19 11:23	1.0		
060	028_060	SAMPLE	306579-015	S	Soil	267194	01/29/19 11:50	1.0		
061	028_061	SAMPLE	306579-016	S	Soil	267194	01/29/19 12:17	1.0		
062	028_062	SAMPLE	306579-017	S	Soil	267194	01/29/19 12:44	1.0		
063	028_063	SAMPLE	306579-018	S	Soil	267194	01/29/19 13:11	1.0		
064	028_064	CCV	DSL_250				01/29/19 13:38	1.0	5	
065	028_065	CCV	MO_500				01/29/19 14:05	1.0	3	
066	028_066	CCV	JP5				01/29/19 14:31	1.0	4	
067	028_067	X	CMARKER				01/29/19 14:58	1.0	1	
068	028_068	BLANK	QC961471		Soil	266973	01/29/19 16:47	1.0		
069	028_069	BLANK	QC961313		Soil	266930	01/29/19 17:13	1.0		
070	028_070	SAMPLE	306352-001		Soil	266973	01/29/19 17:40	1.0		
071	028_071	SAMPLE	306447-002		Water	267056	01/29/19 18:07	3.0		2:BUNKC:12-40=5300
072	028_072	SAMPLE	306547-003		Soil	267134	01/29/19 18:34	100.0		7:BUNKC:12-40=11000
073	028_073	IB					01/29/19 19:01	1.0		
074	028_074	BLANK	QC962343	S	Soil	267185	01/29/19 19:28	1.0		
075	028_075	LCS	QC962344	S	Soil	267185	01/29/19 19:54	1.0		
076	028_076	SAMPLE	306575-005	S	Soil	267185	01/29/19 20:21	1.0		
077	028_077	SAMPLE	306575-010	S	Soil	267185	01/29/19 20:48	1.0		
078	028_078	SAMPLE	306150-008	S	Soil	266674	01/29/19 21:14	5.0		
079	028_079	SAMPLE	306150-004	S	Soil	266674	01/29/19 21:41	2.0		
080	028_080	SAMPLE	306150-012	S	Soil	266674	01/29/19 22:08	2.0		
081	028_081	SAMPLE	306150-016	S	Soil	266674	01/29/19 22:34	2.0		
082	028_082	CCV	DSL_1000				01/29/19 23:01	1.0	7	
083	028_083	CCV	MO_500				01/29/19 23:28	1.0	3	
084	028_084	CCV	JP5				01/29/19 23:54	1.0	4	
085	028_085	X	CMARKER				01/30/19 00:21	1.0	1	
086	028_086	BLANK	QC962306		Water	267176	01/30/19 00:48	1.0		
087	028_087	LCS	QC962307		Water	267176	01/30/19 01:15	1.0		
088	028_088	MSS	306573-006		Water	267176	01/30/19 01:42	1.0		
089	028_089	MS	QC962308		Water	267176	01/30/19 02:09	1.0		2:HXCS=130
090	028_090	MSD	QC962309		Water	267176	01/30/19 02:37	1.0		
091	028_091	SAMPLE	306573-001		Water	267176	01/30/19 03:04	1.0		
092	028_092	SAMPLE	306573-002		Water	267176	01/30/19 03:32	1.0		
093	028_093	SAMPLE	306573-003		Water	267176	01/30/19 03:59	1.0		
094	028_094	SAMPLE	306573-004		Water	267176	01/30/19 04:26	1.0		
095	028_095	SAMPLE	306573-005		Water	267176	01/30/19 04:54	1.0		
096	028_096	CCV	DSL_500				01/30/19 05:21	1.0	2	
097	028_097	CCV	MO_500				01/30/19 05:49	1.0	3	
098	028_098	X	CMARKER				01/30/19 06:17	1.0	1	
099	028_099	SAMPLE	306537-005		Soil	267077	01/30/19 06:44	2.0		sh
100	028_100	SAMPLE	306537-006		Soil	267077	01/30/19 07:12	2.0		sh
101	028_101	SAMPLE	306537-002		Soil	267077	01/30/19 07:39	1.0		sh
102	028_102	MSS	306537-003		Soil	267077	01/30/19 08:07	1.0		sh
103	028_103	SAMPLE	306537-004		Soil	267077	01/30/19 08:35	1.0		sh
104	028_104	SAMPLE	306574-001		Water	267176	01/30/19 09:02	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229040831

Instrument : GC14B
 Method : EPA 8015B

Begun : 01/28/19 08:31
 SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	028_105	SAMPLE	306574-002		Water	267176	01/30/19 09:29	1.0		
106	028_106	SAMPLE	306574-003		Water	267176	01/30/19 09:56	1.0		
107	028_107	SAMPLE	306574-004		Water	267176	01/30/19 10:23	1.0		
108	028_108	CCV	DSL_250				01/30/19 10:50	1.0	5	
109	028_109	CCV	MO_500				01/30/19 11:18	1.0	3	
110	028_110	X	CMARKER				01/30/19 11:45	1.0	1	
111	028_111	BLANK	QC963026		Water	267353	01/30/19 12:11	1.0		
112	028_112	BS	QC963027		Water	267353	01/30/19 12:38	1.0		
113	028_113	BSD	QC963028		Water	267353	01/30/19 13:05	1.0		
114	028_114	SAMPLE	306733-001		Water	267353	01/30/19 13:32	5.0		
115	028_115	SAMPLE	306733-002		Water	267353	01/30/19 13:58	5.0		
116	028_116	SAMPLE	306777-001		Water	267353	01/30/19 14:25	3.0		
117	028_117	SAMPLE	306333-004		Water	266962	01/30/19 14:52	1.0		2:HXCS=140
118	028_118	SAMPLE	306333-006		Water	266962	01/30/19 15:18	1.0		2:HXCS=130
119	028_119	CCV	DSL_1000				01/30/19 15:45	1.0	7	
120	028_120	CCV	MO_500				01/30/19 16:12	1.0	3	
121	028_121	CCV	JP5				01/30/19 16:40	1.0	4	
122	028_122	X	CMARKER				01/30/19 17:26	1.0	1	
123	028_123	BLANK	QC963026	S	Water	267353	01/30/19 17:53	1.0		
124	028_124	BLANK	QC963110		Soil	267372	01/30/19 18:20	1.0		
125	028_125	BS	QC963027	S	Water	267353	01/30/19 18:46	1.0		
126	028_126	BSD	QC963028	S	Water	267353	01/30/19 19:13	1.0		
127	028_127	LCS	QC963111		Soil	267372	01/30/19 19:40	1.0		
128	028_128	MSS	306724-001		Soil	267372	01/30/19 20:06	1.0		
129	028_129	MS	QC963112		Soil	267372	01/30/19 20:33	1.0		
130	028_130	MSD	QC963113		Soil	267372	01/30/19 21:00	1.0		
131	028_131	SAMPLE	306250-001		Soil	267372	01/30/19 21:26	20.0		sh , 9:BUNKC:12-40=20000
132	028_132	SAMPLE	306250-003		Soil	267372	01/30/19 21:53	20.0		sh
133	028_133	SAMPLE	306250-002		Soil	267372	01/30/19 22:20	50.0		sh
134	028_134	SAMPLE	306250-004		Soil	267372	01/30/19 22:46	50.0		sh , 2:BUNKC:12-40=5500
135	028_135	CCV	DSL_250				01/30/19 23:13	1.0	5	
136	028_136	CCV	MO_500				01/30/19 23:39	1.0	3	
137	028_137	CCV	JP5				01/31/19 00:06	1.0	4	
138	028_138	X	CMARKER				01/31/19 00:32	1.0	1	
139	028_139	SAMPLE	306250-005		Soil	267372	01/31/19 00:59	50.0		sh
140	028_140	SAMPLE	306250-006		Soil	267372	01/31/19 01:25	50.0		sh
141	028_141	SAMPLE	306250-007		Soil	267372	01/31/19 01:53	50.0		sh
142	028_142	SAMPLE	306250-008		Soil	267372	01/31/19 02:20	50.0		sh
143	028_143	IB					01/31/19 02:47	1.0		
144	028_144	SAMPLE	306699-001	S	Water	267353	01/31/19 03:15	1.0		
145	028_145	IDOC	QC963114		Soil	267372	01/31/19 03:42	1.0		
146	028_146	IDOC	QC963115		Soil	267372	01/31/19 04:09	1.0		
147	028_147	IDOC	QC963116		Soil	267372	01/31/19 04:37	1.0		
148	028_148	IDOC	QC963117		Soil	267372	01/31/19 05:04	1.0		
149	028_149	CCV	DSL_1000				01/31/19 05:32	1.0	7	
150	028_150	CCV	MO_500				01/31/19 06:00	1.0	3	
151	028_151	X	CMARKER				01/31/19 06:27	1.0	1	
152	028_152	CHECK	MO_5000				01/31/19 06:54	1.0	8	2:BUNKC:12-40=8000
153	028_153	CCV	JP5				01/31/19 10:55	1.0	4	
154	028_154	BLANK	QC963110	S	Soil	267372	01/31/19 11:22	1.0		
155	028_155	LCS	QC963111	S	Soil	267372	01/31/19 11:49	1.0		
156	028_156	SAMPLE	306813-001		Water	267353	01/31/19 12:17	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229040831

Instrument : GC14B
 Method : EPA 8015B

Begun : 01/28/19 08:31
 SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
157	028_157	SAMPLE	306558-001		Water	267176	01/31/19 12:44	1.0		
158	028_158	SAMPLE	306558-002		Water	267176	01/31/19 13:11	1.0		
159	028_159	SAMPLE	306558-003		Water	267176	01/31/19 13:39	1.0		
160	028_160	SAMPLE	306250-001		Soil	267372	01/31/19 14:06	50.0		sh , 4:BUNKC:12-40=8000
161	028_161	IB					01/31/19 14:53	1.0		
162	028_162	BLANK	QC963315		Soil	267372	01/31/19 15:20	1.0		
163	028_163	CCV	DSL_250				01/31/19 15:59	1.0	5	
164	028_164	CCV	MO_500				01/31/19 16:26	1.0	3	
165	028_165	X	CMARKER				01/31/19 16:53	1.0	1	
166	028_166	BLANK	QC963321		Soil	267427	01/31/19 17:20	1.0		
167	028_167	BLANK	QC963278		Soil	267416	01/31/19 18:18	1.0		
168	028_168	BLANK	QC963278	S	Soil	267416	01/31/19 18:46	1.0		
169	028_169	LCS	QC963322		Soil	267427	01/31/19 19:13	1.0		
170	028_170	LCS	QC963279		Soil	267416	01/31/19 19:40	1.0		
171	028_171	LCS	QC963279	S	Soil	267416	01/31/19 20:07	1.0		
172	028_172	MSS	306834-003		Soil	267427	01/31/19 20:34	1.0		
173	028_173	MS	QC963323		Soil	267427	01/31/19 21:01	1.0		
174	028_174	MSD	QC963324		Soil	267427	01/31/19 21:29	1.0		
175	028_175	MSS	306824-007		Soil	267416	01/31/19 21:56	1.0		
176	028_176	MS	QC963280		Soil	267416	01/31/19 22:23	1.0		
177	028_177	MSD	QC963281		Soil	267416	01/31/19 22:51	1.0		
178	028_178	CCV	DSL_1000				01/31/19 23:18	1.0	7	
179	028_179	CCV	MO_500				01/31/19 23:45	1.0	3	
180	028_180	X	CMARKER				02/01/19 00:12	1.0	1	
181	028_181	SAMPLE	306709-005	S	Soil	267416	02/01/19 00:40	5.0		
182	028_182	SAMPLE	306709-001	S	Soil	267416	02/01/19 01:07	2.0		
183	028_183	SAMPLE	306709-002	S	Soil	267416	02/01/19 01:34	2.0		
184	028_184	SAMPLE	306709-003	S	Soil	267416	02/01/19 02:02	2.0		
185	028_185	SAMPLE	306709-004	S	Soil	267416	02/01/19 02:30	2.0		
186	028_186	SAMPLE	306834-004		Soil	267427	02/01/19 02:57	3.0		
187	028_187	SAMPLE	306834-001		Soil	267427	02/01/19 03:24	1.0		
188	028_188	SAMPLE	306834-002		Soil	267427	02/01/19 03:52	1.0		
189	028_189	SAMPLE	306834-005		Soil	267427	02/01/19 04:19	1.0		
190	028_190	SAMPLE	306834-006		Soil	267427	02/01/19 04:47	1.0		
191	028_191	SAMPLE	306790-001		Soil	267416	02/01/19 05:14	1.0		
192	028_192	CCV	DSL_500				02/01/19 05:42	1.0	2	
193	028_193	XCCV	MO_500				02/01/19 06:10	1.0	3	
194	028_194	X	CMARKER				02/01/19 06:37	1.0	1	
195	028_195	CCV	MO_500				02/01/19 07:05	1.0	9	
196	028_196	CCV	MO_500				02/01/19 10:42	1.0	9	

TKY 01/28/19 : DCM:EM58264

TKY 02/01/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 196.

TKY 02/01/19 : X'ed out run 193. MO CCV failed low. Ran 2 MO CCVs and passed.

Standards used: 1=S39447 2=S39005 3=S38548 4=S38581 5=S39192 6=S39561 7=S39006 8=S38765 9=S39626

Flags used: sh=out of sample hold

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229046549

Instrument : GC14B Begun : 02/01/19 07:49
 Method : EPA 8015B SOP Version : TEH_rv21

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	032_001	IB				02/01/19 07:49	1.0	
002	032_002	X	CMARKER			02/01/19 08:17	1.0	1
003	032_003	CCV	DSL_500			02/01/19 08:47	1.0	2
004	032_004	CCV	MO_500			02/01/19 09:15	1.0	3
005	032_005	SAMPLE	306890-001	Miscell.	267456	02/01/19 12:33	1.0	
006	032_006	CCV	MO_500			02/01/19 12:59	1.0	4
007	032_007	IB	CALIB			02/01/19 17:10	1.0	
008	032_008	ICAL	HEX OTP_2.5			02/01/19 17:37	1.0	5
009	032_009	ICAL	HEX OTP_5			02/01/19 18:04	1.0	5
010	032_010	ICAL	HEX OTP_10			02/01/19 18:32	1.0	6
011	032_011	ICAL	HEX OTP_25			02/01/19 18:59	1.0	7
012	032_012	ICAL	HEX OTP_50			02/01/19 19:26	1.0	8
013	032_013	ICAL	HEX OTP_100			02/01/19 19:53	1.0	8
014	032_014	IB	CALIB			02/01/19 20:21	1.0	
015	032_015	ICAL	MO_50			02/01/19 20:48	1.0	9
016	032_016	ICAL	MO_250			02/01/19 21:15	1.0	10
017	032_017	ICAL	MO_500			02/01/19 21:42	1.0	11
018	032_018	ICAL	MO_1000			02/01/19 22:10	1.0	12
019	032_019	ICAL	MO_2500			02/01/19 22:37	1.0	13
020	032_020	ICAL	MO_5000			02/01/19 23:04	1.0	13
021	032_021	IB	CALIB			02/01/19 23:31	1.0	
022	032_022	ICV	MO_500			02/01/19 23:59	1.0	4
023	032_023	IB	CALIB			02/02/19 00:26	1.0	
024	032_024	CMARKER	C10-C40			02/02/19 00:53	1.0	1
025	032_025	IB	CALIB			02/02/19 01:20	1.0	

TKY 02/01/19 : DCM:EM58264

TKY 02/04/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 25.

Standards used: 1=S39447 2=S39005 3=S38548 4=S39627 5=S38295 6=S38296 7=S38297 8=S38299 9=S39615 10=S39616 11=S39617
 12=S39618 13=S39614

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229050889

Instrument : GC14B Begun : 02/04/19 08:09
 Method : EPA 8015B SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	035_001	IB					02/04/19 08:09	1.0	
002	035_002	IB					02/04/19 08:37	1.0	
003	035_003	X	CMARKER				02/04/19 09:04	1.0	1
004	035_004	CCV	DSL_500				02/04/19 09:32	1.0	2
005	035_005	CCV	MO_500				02/04/19 09:59	1.0	3
006	035_006	SAMPLE	306736-001	S	Soil	267446	02/04/19 12:14	1.0	
007	035_007	CCV	JP5_250				02/04/19 12:44	1.0	4
008	035_008	BLANK	QC963419		Soil	267446	02/04/19 13:12	1.0	
009	035_009	SAMPLE	306854-002	S	Soil	267446	02/04/19 13:39	1.0	
010	035_010	SAMPLE	306854-001	S	Soil	267446	02/04/19 14:07	1.0	
011	035_011	SAMPLE	306736-002	S	Soil	267446	02/04/19 14:35	1.0	
012	035_012	SAMPLE	306574-004		Water	267176	02/04/19 15:02	1.0	
013	035_013	SAMPLE	306886-001		Soil	267427	02/04/19 15:29	5.0	
014	035_014	SAMPLE	306886-002		Soil	267427	02/04/19 15:56	1.0	
015	035_015	CCV	DSL_1000				02/04/19 16:37	1.0	5
016	035_016	CCV	MO_500				02/04/19 17:03	1.0	3
017	035_017	CCV	JP5_250				02/04/19 17:30	1.0	4
018	035_018	X	CMARKER				02/04/19 17:58	1.0	1

TKY 02/04/19 : DCM:EM58264

TKY 02/04/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 18.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 979016508

Instrument : GC27A
 Method : EPA 8015B

Begun : 01/11/19 11:08
 SOP Version : TEH_rv21

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	011a001	IB				01/11/19 11:08	1.0	
002	011a002	X	CMARKER			01/11/19 11:32	1.0	1
003	011a003	X	CMARKER			01/11/19 13:22	1.0	1
004	011a004	X	CMARKER			01/11/19 15:41	1.0	1
005	011a005	X	CMARKER			01/11/19 18:05	1.0	1
006	011a006	IB	CALIB			01/11/19 18:54	1.0	
007	011a007	ICAL	HEX OTP_2.5			01/11/19 19:18	1.0	2
008	011a008	ICAL	HEX OTP_5			01/11/19 19:43	1.0	2
009	011a009	ICAL	HEX OTP_10			01/11/19 20:07	1.0	3
010	011a010	ICAL	HEX OTP_25			01/11/19 20:31	1.0	4
011	011a011	ICAL	HEX OTP_50			01/11/19 20:56	1.0	5
012	011a012	ICAL	HEX OTP_100			01/11/19 21:20	1.0	5
013	011a013	IB	CALIB			01/11/19 21:45	1.0	
014	011a014	ICAL	DSL_10			01/11/19 22:09	1.0	6
015	011a015	ICAL	DSL_100			01/11/19 22:33	1.0	7
016	011a016	ICAL	DSL_500			01/11/19 22:58	1.0	8
017	011a017	ICAL	DSL_1000			01/11/19 23:22	1.0	9
018	011a018	ICAL	DSL_5000			01/11/19 23:47	1.0	10
019	011a019	IB	CALIB			01/12/19 00:11	1.0	
020	011a020	ICV	DSL_500			01/12/19 00:36	1.0	11
021	011a021	IB	CALIB			01/12/19 01:00	1.0	
022	011a022	ICAL	MO_50			01/12/19 01:25	1.0	12
023	011a023	ICAL	MO_250			01/12/19 01:49	1.0	13
024	011a024	ICAL	MO_500			01/12/19 02:13	1.0	14
025	011a025	ICAL	MO_1000			01/12/19 02:38	1.0	15
026	011a026	ICAL	MO_2500			01/12/19 03:02	1.0	16
027	011a027	ICAL	MO_5000			01/12/19 03:26	1.0	16
028	011a028	IB	CALIB			01/12/19 03:51	1.0	
029	011a029	ICV	MO_500			01/12/19 04:15	1.0	17
030	011a030	IB	CALIB			01/12/19 04:39	1.0	
031	011a031	CMARKER	C10-C40			01/12/19 05:04	1.0	1
032	011a032	IB	CALIB			01/12/19 05:28	1.0	

TKY 01/11/19 : DCM:EM58180

TKY 01/14/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

Standards used: 1=S38220 2=S38295 3=S38296 4=S38297 5=S38299 6=S38234 7=S38235 8=S38236 9=S38237 10=S38233 11=S39005
 12=S38928 13=S38929 14=S38930 15=S38931 16=S38765 17=S38548

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 979020789

Instrument : GC27A
 Method : EPA 8015B

Begun : 01/14/19 10:29
 SOP Version : TEH_rv21

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	014a001	IB				01/14/19 10:29	1.0	
002	014a002	IB				01/14/19 10:53	1.0	
003	014a003	X	CMARKER			01/14/19 11:17	1.0	1
004	014a004	CCV	MO_500			01/14/19 11:42	1.0	2
005	014a005	CCV	DSL_500			01/14/19 12:06	1.0	3
006	014a006	CHECK	CMARKER			01/14/19 12:32	1.0	4
007	014a007	LOD	207486-048	Soil	266674	01/14/19 12:56	1.0	
008	014a008	LOD	207488-046	Soil	266674	01/14/19 13:21	1.0	
009	014a009	IB	CALIB			01/14/19 13:45	1.0	
010	014a010	ICAL	MO_50			01/14/19 14:09	1.0	5
011	014a011	ICAL	MO_250			01/14/19 14:33	1.0	6
012	014a012	ICAL	MO_500			01/14/19 14:58	1.0	7
013	014a013	ICAL	MO_1000			01/14/19 15:22	1.0	8
014	014a014	ICAL	MO_2500			01/14/19 15:46	1.0	9
015	014a015	ICAL	MO_5000			01/14/19 16:11	1.0	9
016	014a016	IB	CALIB			01/14/19 16:35	1.0	
017	014a017	ICV	MO_500			01/14/19 17:00	1.0	10
018	014a018	IB	CALIB			01/14/19 17:24	1.0	
019	014a019	X	CMARKER			01/14/19 17:48	1.0	1
020	014a020	IB	CALIB			01/14/19 18:12	1.0	
021	014a021	ICAL	MO_50			01/14/19 18:40	1.0	5
022	014a022	IB				01/14/19 19:23	1.0	
023	014a023	IB				01/14/19 19:47	1.0	
024	014a024	IB				01/14/19 20:11	1.0	
025	014a025	IB				01/14/19 20:35	1.0	
026	014a026	IB				01/14/19 20:59	1.0	
027	014a027	IB				01/14/19 21:23	1.0	
028	014a028	IB				01/14/19 21:48	1.0	
029	014a029	IB				01/14/19 22:12	1.0	
030	014a030	IB				01/14/19 22:36	1.0	
031	014a031	IB	CALIB			01/14/19 23:00	1.0	
032	014a032	ICAL	MO_50			01/14/19 23:25	1.0	5
033	014a033	ICAL	MO_250			01/14/19 23:49	1.0	6
034	014a034	ICAL	MO_500			01/15/19 00:13	1.0	7
035	014a035	ICAL	MO_1000			01/15/19 00:37	1.0	8
036	014a036	ICAL	MO_2500			01/15/19 01:01	1.0	9
037	014a037	ICAL	MO_5000			01/15/19 01:25	1.0	9
038	014a038	IB	CALIB			01/15/19 01:50	1.0	
039	014a039	ICV	MO_500			01/15/19 02:14	1.0	10
040	014a040	IB	CALIB			01/15/19 02:38	1.0	
041	014a041	IB	CALIB			01/15/19 03:02	1.0	
042	014a042	CMARKER	C10-C40			01/15/19 03:27	1.0	1
043	014a043	IB	CALIB			01/15/19 03:52	1.0	

TKY 01/15/19 : DCM:EM58180

TKY 01/15/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 43.

Standards used: 1=S38220 2=S30797 3=S30799 4=S39447 5=S38928 6=S38929 7=S38930 8=S38931 9=S38765 10=S38548

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 979033612

Instrument : GC27A
 Method : EPA 8015B

Begun : 01/23/19 08:12
 SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	023a001	IB					01/23/19 08:12	1.0		
002	023a002	X	CMARKER				01/23/19 08:37	1.0	1	
003	023a003	CCV	DSL_500				01/23/19 09:02	1.0	2	
004	023a004	CCV	MO_500				01/23/19 09:27	1.0	3	
005	023a005	BLANK	QC962008		Soil	267108	01/23/19 10:12	1.0		
006	023a006	LCS	QC962009		Soil	267108	01/23/19 10:37	1.0		
007	023a007	MSS	306545-005		Soil	267108	01/23/19 11:01	5.0		11:DSL:16-24=85000
008	023a008	SAMPLE	306545-009		Soil	267108	01/23/19 11:26	20.0		
009	023a009	SAMPLE	306545-012		Soil	267108	01/23/19 11:50	20.0		
010	023a010	SAMPLE	306545-013		Soil	267108	01/23/19 12:14	20.0		
011	023a011	SAMPLE	306545-010		Soil	267108	01/23/19 12:39	10.0		
012	023a012	SAMPLE	306545-011		Soil	267108	01/23/19 13:03	10.0		10:DSL:16-24=25000
013	023a013	SAMPLE	306542-002		Soil	267108	01/23/19 13:27	20.0		
014	023a014	SAMPLE	306542-005		Soil	267108	01/23/19 13:52	10.0		
015	023a015	SAMPLE	306048-003		Soil	266587	01/23/19 14:16	100.0		4:DSL:16-24=7900
016	023a016	SAMPLE	306501-003		Soil	267072	01/23/19 14:41	50.0		1:DSL:16-24=5100
017	023a017	CCV	DSL_1000				01/23/19 15:05	1.0	4	
018	023a018	CCV	MO_500				01/23/19 15:29	1.0	3	
019	023a019	X	CMARKER				01/23/19 15:54	1.0	1	
020	023a020	SAMPLE	306545-001		Soil	267108	01/23/19 16:18	50.0		10:BUNKC:12-40=24000
021	023a021	SAMPLE	306545-002		Soil	267108	01/23/19 16:43	50.0		8:BUNKC:12-40=12000
022	023a022	SAMPLE	306545-003		Soil	267108	01/23/19 17:07	20.0		
023	023a023	SAMPLE	306545-004		Soil	267108	01/23/19 17:32	20.0		
024	023a024	SAMPLE	306545-006		Soil	267108	01/23/19 17:56	10.0		8:BUNKC:12-40=10000
025	023a025	SAMPLE	306545-007		Soil	267108	01/23/19 18:21	10.0		
026	023a026	SAMPLE	306545-008		Soil	267108	01/23/19 18:45	10.0		
027	023a027	SAMPLE	306047-001		Soil	266626	01/23/19 19:10	10.0		
028	023a028	SAMPLE	306047-002		Soil	266626	01/23/19 19:35	10.0		
029	023a029	SAMPLE	306047-003		Soil	266626	01/23/19 20:00	10.0		
030	023a030	CCV	DSL_250				01/23/19 20:24	1.0	5	
031	023a031	CCV	MO_500				01/23/19 20:49	1.0	3	
032	023a032	X	CMARKER				01/23/19 21:14	1.0	1	
033	023a033	SAMPLE	306047-005		Soil	266626	01/23/19 21:39	50.0		
034	023a034	CCV	DSL_1000				01/24/19 08:16	1.0	4	
035	023a035	CCV	MO_500				01/24/19 08:41	1.0	3	
036	023a036	X	CMARKER				01/24/19 09:06	1.0	1	
037	023a037	SAMPLE	306047-006		Soil	266626	01/24/19 09:30	50.0		
038	023a038	SAMPLE	306047-004		Soil	266626	01/24/19 09:55	10.0		9:DSL:16-24=19000
039	023a039	SAMPLE	306047-007		Soil	266626	01/24/19 10:19	10.0		9:DSL:16-24=17000
040	023a040	SAMPLE	306051-011		Soil	266538	01/24/19 10:44	1.0		
041	023a041	SAMPLE	306138-001		Soil	266635	01/24/19 11:09	5.0		
042	023a042	SAMPLE	306545-008		Soil	267108	01/24/19 11:41	50.0		
043	023a043	SAMPLE	306502-002		Soil	267077	01/24/19 12:07	10.0		
044	023a044	LCS	QC962009		Soil	267108	01/24/19 12:32	1.0		
045	023a045	SAMPLE	306490-001		Soil	267077	01/24/19 12:56	1.0		
046	023a046	SAMPLE	306512-001		Miscell.	267077	01/24/19 13:21	10.0		
047	023a047	SAMPLE	306443-001		Soil	267007	01/24/19 13:45	20.0		
048	023a048	CCV	DSL_500				01/24/19 14:10	1.0	2	
049	023a049	CCV	MO_500				01/24/19 14:34	1.0	3	
050	023a050	X	CMARKER				01/24/19 14:58	1.0	1	
051	023a051	IB					01/24/19 15:23	1.0		
052	023a052	BLANK	QC962195	S	Soil	267150	01/24/19 15:47	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 979033612

Instrument : GC27A
 Method : EPA 8015B

Begun : 01/23/19 08:12
 SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	023a053	LCS	QC962196	S	Soil	267150	01/24/19 16:11	1.0		
054	023a054	BSD	QC961964		Miscell.	267095	01/24/19 16:36	1.0		
055	023a055	CHECK	CAP CHECK				01/24/19 17:00	1.0		
056	023a056	SAMPLE	306513-007	S	Soil	267150	01/24/19 17:24	5.0		
057	023a057	SAMPLE	306513-001	S	Soil	267134	01/24/19 17:49	5.0		
058	023a058	SAMPLE	306513-002	S	Soil	267134	01/24/19 18:13	5.0		
059	023a059	SAMPLE	306513-008	S	Soil	267150	01/24/19 18:38	1.0		
060	023a060	SAMPLE	306513-003	S	Soil	267150	01/24/19 19:30	1.0		
061	023a061	SAMPLE	306513-005	S	Soil	267150	01/24/19 19:54	1.0		
062	023a062	SAMPLE	306513-004	S	Soil	267150	01/24/19 20:19	1.0		
063	023a063	SAMPLE	306513-006	S	Soil	267150	01/24/19 20:44	1.0		
064	023a064	SAMPLE	306516-001	S	Water	267056	01/24/19 21:08	1.0		
065	023a065	CCV	DSL_250				01/24/19 21:33	1.0	5	
066	023a066	CCV	MO_500				01/24/19 21:58	1.0	3	
067	023a067	X	CMARKER				01/24/19 22:23	1.0	1	
068	023a068	SAMPLE	306248-011		Soil	266780	01/24/19 22:47	50.0		3:BUNKC:12-40=5600
069	023a069	SAMPLE	306248-006		Soil	266780	01/24/19 23:12	20.0		
070	023a070	SAMPLE	306248-007		Soil	266780	01/24/19 23:37	20.0		4:DSL:16-24=8100
071	023a071	SAMPLE	306248-008		Soil	266780	01/25/19 00:01	20.0		
072	023a072	SAMPLE	306248-013		Soil	266794	01/25/19 00:26	20.0		
073	023a073	SAMPLE	306248-009		Soil	266780	01/25/19 00:50	10.0		3:BUNKC:12-40=6700
074	023a074	SAMPLE	306248-010		Soil	266780	01/25/19 01:15	10.0		5:DSL:16-24=8600
075	023a075	SAMPLE	306248-012		Soil	266780	01/25/19 01:39	10.0		
076	023a076	SAMPLE	306343-001		Soil	266973	01/25/19 02:04	20.0		
077	023a077	CCV	DSL_500				01/25/19 02:29	1.0	2	
078	023a078	CCV	MO_500				01/25/19 02:54	1.0	3	
079	023a079	X	CMARKER				01/25/19 03:19	1.0	1	
080	023a080	BLANK	QC961719		Soil	267031	01/25/19 03:43	1.0		
081	023a081	LCS	QC961720		Soil	267031	01/25/19 04:08	1.0		
082	023a082	MSS	306448-001		Soil	267031	01/25/19 04:33	1.0		
083	023a083	MS	QC961721		Soil	267031	01/25/19 04:57	1.0		
084	023a084	MSD	QC961722		Soil	267031	01/25/19 05:22	1.0		
085	023a085	SAMPLE	306494-001		Soil	267031	01/25/19 05:47	50.0		
086	023a086	SAMPLE	306497-001		Soil	267031	01/25/19 06:12	50.0		
087	023a087	SAMPLE	306497-002		Soil	267031	01/25/19 06:37	20.0		
088	023a088	SAMPLE	306498-001		Soil	267031	01/25/19 07:02	20.0		10:BUNKC:12-40=53000
089	023a089	SAMPLE	306494-002		Soil	267031	01/25/19 07:27	10.0		
090	023a090	SAMPLE	306494-003		Soil	267031	01/25/19 07:52	10.0		
091	023a091	SAMPLE	306494-004		Soil	267031	01/25/19 08:17	10.0		
092	023a092	SAMPLE	306441-001		Water	266962	01/25/19 08:42	1.0		
093	023a093	SAMPLE	306441-002		Water	266962	01/25/19 09:07	1.0		
094	023a094	SAMPLE	306415-001		Water	266962	01/25/19 09:31	1.0		
095	023a095	BLANK	QC961899		Soil	267077	01/25/19 09:56	1.0		
096	023a096	CCV	DSL_1000				01/25/19 10:20	1.0	4	
097	023a097	CCV	MO_500				01/25/19 10:45	1.0	3	
098	023a098	X	CMARKER				01/25/19 11:09	1.0	1	
099	023a099	BLANK	QC962343		Soil	267185	01/25/19 11:41	1.0		
100	023a100	LCS	QC962344		Soil	267185	01/25/19 12:05	1.0		
101	023a101	MSS	306578-001		Soil	267185	01/25/19 12:30	1.0		
102	023a102	MS	QC962345		Soil	267185	01/25/19 12:54	1.0		
103	023a103	MSD	QC962346		Soil	267185	01/25/19 13:18	1.0		
104	023a104	SAMPLE	306578-007		Soil	267185	01/25/19 13:42	20.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 979033612

Instrument : GC27A
 Method : EPA 8015B

Begun : 01/23/19 08:12
 SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
105	023a105	SAMPLE	306578-008		Soil	267185	01/25/19 14:07	20.0		
106	023a106	SAMPLE	306578-009		Soil	267185	01/25/19 14:31	10.0		
107	023a107	SAMPLE	306578-015		Soil	267185	01/25/19 14:56	20.0		
108	023a108	SAMPLE	306578-011		Soil	267185	01/25/19 15:20	1.0		3:BUNKC:12-40=7500
109	023a109	SAMPLE	306578-013		Soil	267185	01/25/19 15:45	1.0		
110	023a110	SAMPLE	306578-014		Soil	267185	01/25/19 16:09	1.0		
111	023a111	CCV	DSL_500				01/25/19 16:33	1.0	2	
112	023a112	CCV	MO_500				01/25/19 16:58	1.0	3	
113	023a113	X	CMARKER				01/25/19 17:22	1.0	1	
114	023a114	SAMPLE	306578-010		Soil	267185	01/25/19 17:47	1.0		
115	023a115	SAMPLE	306578-006		Soil	267185	01/25/19 18:11	1.0		
116	023a116	SAMPLE	306578-002		Soil	267185	01/25/19 18:35	1.0		
117	023a117	SAMPLE	306578-003		Soil	267185	01/25/19 19:00	1.0		
118	023a118	SAMPLE	306578-004		Soil	267185	01/25/19 19:24	1.0		
119	023a119	SAMPLE	306578-005		Soil	267185	01/25/19 19:49	1.0		
120	023a120	SAMPLE	306047-004		Soil	266626	01/25/19 20:13	100.0		
121	023a121	SAMPLE	306047-007		Soil	266626	01/25/19 20:38	100.0		
122	023a122	MSS	306537-003		Soil	267077	01/25/19 21:02	1.0		sh
123	023a123	SAMPLE	306558-016		Soil	267185	01/25/19 21:27	1.0		
124	023a124	CCV	DSL_250				01/25/19 21:52	1.0	5	
125	023a125	CCV	MO_500				01/25/19 22:16	1.0	3	
126	023a126	SAMPLE	306247-003		Soil	266780	01/25/19 22:41	20.0		
127	023a127	SAMPLE	306247-004		Soil	266780	01/25/19 23:05	20.0		
128	023a128	SAMPLE	306247-001		Soil	266780	01/25/19 23:30	10.0		4:DSL:16-24=7100
129	023a129	SAMPLE	306248-004		Soil	266780	01/25/19 23:55	50.0		4:DSL:16-24=7700
130	023a130	SAMPLE	306248-005		Soil	266780	01/26/19 00:19	50.0		
131	023a131	SAMPLE	306248-002		Soil	266780	01/26/19 00:43	20.0		
132	023a132	SAMPLE	306248-003		Soil	266780	01/26/19 01:08	10.0		
133	023a133	SAMPLE	306305-006		Soil	266930	01/26/19 01:33	1.0		
134	023a134	SAMPLE	306247-002		Soil	266780	01/26/19 01:57	50.0		
135	023a135	SAMPLE	306247-005		Soil	266780	01/26/19 02:22	50.0		
136	023a136	CCV	DSL_500				01/26/19 02:47	1.0	2	
137	023a137	CCV	MO_500				01/26/19 03:12	1.0	3	
138	023a138	X	CMARKER				01/26/19 03:36	1.0	1	
139	023a139	SAMPLE	306333-004		Water	266962	01/26/19 04:01	1.0		2:PHENO=150
140	023a140	SAMPLE	306333-006		Water	266962	01/26/19 04:26	1.0		2:PHENO=140
141	023a141	SAMPLE	306503-001		Soil	267031	01/26/19 04:51	50.0		9:BUNKC:12-40=19000
142	023a142	SAMPLE	306503-002		Soil	267031	01/26/19 05:16	50.0		
143	023a143	SAMPLE	306503-003		Soil	267031	01/26/19 05:41	50.0		3:DSL:16-24=5700
144	023a144	SAMPLE	306503-004		Soil	267031	01/26/19 06:06	50.0		
145	023a145	SAMPLE	306503-005		Soil	267031	01/26/19 06:31	50.0		
146	023a146	SAMPLE	306503-006		Soil	267031	01/26/19 06:56	50.0		
147	023a147	SAMPLE	306503-007		Soil	267031	01/26/19 07:21	20.0		
148	023a148	SAMPLE	306503-008		Soil	267031	01/26/19 07:46	20.0		
149	023a149	CCV	DSL_1000				01/26/19 08:10	1.0	4	
150	023a150	CCV	MO_500				01/26/19 08:35	1.0	3	
151	023a151	BLANK	QC961846		Miscell.	267065	01/26/19 09:01	1.0		
152	023a152	BS	QC961847		Miscell.	267065	01/26/19 09:26	1.0		
153	023a153	BSD	QC961848		Miscell.	267065	01/26/19 09:51	1.0		
154	023a154	SAMPLE	306485-001		Miscell.	267065	01/26/19 10:16	1.0		11:BUNKC:12-40=47000
155	023a155	SAMPLE	306550-001		Soil	267108	01/26/19 10:40	10.0		7:DSL:16-24=10000
156	023a156	SAMPLE	306550-002		Soil	267108	01/26/19 11:05	10.0		8:BUNKC:12-40=11000

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 979033612

Instrument : GC27A Begun : 01/23/19 08:12
 Method : EPA 8015B SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
157	023a157	SAMPLE	306550-003		Soil	267108	01/26/19 11:30	10.0		3:BUNKC:12-40=5600
158	023a158	SAMPLE	306550-004		Soil	267108	01/26/19 11:55	10.0		11:BUNKC:12-40=48000
159	023a159	SAMPLE	306550-005		Soil	267108	01/26/19 12:19	10.0		
160	023a160	SAMPLE	306543-001		Soil	267150	01/26/19 12:44	10.0		
161	023a161	SAMPLE	306543-002		Soil	267150	01/26/19 13:09	10.0		
162	023a162	SAMPLE	306543-003		Soil	267150	01/26/19 13:34	10.0		10:DSL:16-24=47000
163	023a163	SAMPLE	306543-005		Soil	267150	01/26/19 13:58	10.0		
164	023a164	CCV	DSL_500				01/26/19 14:23	1.0	2	
165	023a165	CCV	MO_500				01/26/19 14:48	1.0	3	
166	023a166	X	CMARKER				01/26/19 15:12	1.0	1	
167	023a167	BLANK	QC962195		Soil	267150	01/26/19 15:37	1.0		
168	023a168	LCS	QC962196		Soil	267150	01/26/19 16:01	1.0		
169	023a169	MSS	306543-004		Soil	267150	01/26/19 16:26	10.0		9:BUNKC:12-40=15000
170	023a170	SAMPLE	306558-004		Soil	267150	01/26/19 16:51	2.0		
171	023a171	SAMPLE	306558-008		Soil	267150	01/26/19 17:15	1.0		
172	023a172	SAMPLE	306558-009		Soil	267150	01/26/19 17:40	1.0		
173	023a173	SAMPLE	306558-010		Soil	267150	01/26/19 18:04	1.0		
174	023a174	SAMPLE	306558-011		Soil	267150	01/26/19 18:29	1.0		
175	023a175	SAMPLE	306558-012		Soil	267150	01/26/19 18:54	1.0		
176	023a176	SAMPLE	306558-013		Soil	267150	01/26/19 19:19	1.0		
177	023a177	CCV	DSL_250				01/26/19 19:43	1.0	5	
178	023a178	CCV	MO_500				01/26/19 20:08	1.0	3	
179	023a179	SAMPLE	306558-014		Soil	267150	01/26/19 20:32	1.0		
180	023a180	SAMPLE	306558-015		Soil	267150	01/26/19 20:57	1.0		
181	023a181	SAMPLE	306517-003		Soil	267185	01/26/19 21:21	20.0		
182	023a182	SAMPLE	306517-004		Soil	267185	01/26/19 21:46	20.0		
183	023a183	LCS	QC962307	S	Water	267176	01/26/19 22:11	1.0		
184	023a184	BLANK	QC962306	S	Water	267176	01/26/19 22:36	1.0		
185	023a185	SAMPLE	306607-001	S	Water	267176	01/26/19 23:01	1.0		
186	023a186	SAMPLE	306563-001	S	Water	267176	01/26/19 23:26	1.0		
187	023a187	SAMPLE	306574-001	S	Water	267176	01/26/19 23:50	1.0		
188	023a188	SAMPLE	306574-002	S	Water	267176	01/27/19 00:15	1.0		
189	023a189	SAMPLE	306574-003	S	Water	267176	01/27/19 00:39	1.0		
190	023a190	SAMPLE	306574-004	S	Water	267176	01/27/19 01:04	1.0		
191	023a191	CCV	DSL_500				01/27/19 01:29	1.0	2	
192	023a192	CCV	MO_500				01/27/19 01:54	1.0	3	
193	023a193	X	CMARKER				01/27/19 02:19	1.0	1	

TKY 01/23/19 : DCM:EM58264

TKY 01/24/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 54.

VQ 01/25/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 55 through 79.

TKY 01/25/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 80 through 98.

VQ 01/25/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 99 through 110.

SAMPLE PREPARATION SUMMARY

Batch # : 267176
 Started By : EJ1
 Method : 3520C
 Spike #1 ID : S39144

Prep Date : 23-JAN-2019 12:56
 Spike #2 ID : S39021

Analysis : TEHM
 Finished By : EJ1
 Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
306558-001		Water	800	5	1	0.00625	7	1				TEH	HCl preserve ok per TLC
306558-002		Water	500	2.5	1	0.005	7	.5				TEH	
306558-003		Water	900	5	1	0.005556	7	1				TEH	
306563-001		Water	500	2.5	1	0.005	7	.5			3630	TEHM	
306573-001		Water	450	2.5	1	0.005556	7	.5				(rebatched)	
306573-002		Water	520	2.5	1	0.004808	7	.5				(rebatched)	
306573-003		Water	500	2.5	1	0.005	7	.5				(rebatched)	
306573-004		Water	500	2.5	1	0.005	7	.5				(rebatched)	
306573-005		Water	500	2.5	1	0.005	7	.5				(rebatched)	
306573-006		Water	520	2.5	1	0.004808	7	.5				(rebatched)	MSS
306574-001		Water	520	2.5	1	0.004808	7	.5			3630	(rebatched)	
306574-002		Water	520	2.5	1	0.004808	7	.5			3630	(rebatched)	
306574-003		Water	500	2.5	1	0.005	7	.5			3630	(rebatched)	
306574-004		Water	500	2.5	1	0.005	7	.5			3630	(rebatched)	
306607-001		Water	520	2.5	1	0.004808	7	.5			3630	TEHM	
QC962306	BLANK	Water	500	2.5	1	0.005	7	.5			3630	TEH	
QC962307	LCS	Water	500	2.5	1	0.005	7	.5	.5		3630	TEH	
QC962308	MS	Water	500	2.5	1	0.005	7	.5	.5			TEH	
QC962309	MSD	Water	500	2.5	1	0.005	7	.5	.5			TEH	

Analyst: TKY

Date: 01/29/19

Reviewer: EAH

Date: 02/01/19

LIMS Batch No: 267176

Extraction Method:

Page 63

BK 4302

LIMS Analysis: 1-PEB (50-7) TEH (1120)

EPA 3520c cont. L/L

Date Extracted: 11/23/19

Cleanup Method (if needed):

EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
306558-1	F	500 800	7	2.5 5		HL preserve ok for TLC
2	E	500	7	2.5		
3	F	500 900	7	2.5 5		1.0 mL SURR
306559-001	I	500	7	2.5	X	
306574-001	G	500 450	7	2.5	X	
2	F	500 520	7	2.5	X	
3	L	500	7	2.5	X	
4	G	500	7	2.5	X	
306573-001	E	500	7	2.5		
2	I	500 520	7	2.5		
3	L	500 520	7	2.5		
4	L	500 520	7	2.5		
5	F	500	7	2.5		
6	I	500	7	2.5		MSS
306607-001	H	500 520	7	2.5	X	
HB QC 962306	NA	500	7 NA	2.5	X	
LCS	7	500	7 NA	2.5	X	
MS	8	500	7	2.5		
MSD	9	500	7	2.5		
		500	7	2.5		
		500	7	2.5		
		500	7	2.5		
		500	7	2.5		
		500	7	2.5		

BS/BSL only (MS/MSD not included) due to: insufficient volume, or other (reason)

initials
12/1/19
1/19/19
1/21/19

Checked pH with pH strips - lot # *10/05 mL of TEH_SURR was added to all samples
0.5 mL of TEH_SP was added to all spikes
 3520c: Samples were continually extracted about 450 mL of CH₂Cl₂
 Extraction Start Time: 12:56
 Extraction End Time: 7:01
 3510c: Samples were extracted 3 times with 60 mL of CH₂Cl₂
 Extracts filtered through baked, CH₂Cl₂-rinsed granular Na₂SO₄
 Concentrated to final volume in boiling water bath
 Relinquished to TEH Department

Mfg & Lot# / LIMS # / Tin	Date / Initials
RC 54770	EJ 1 12/3/19
S39144A	I
S39021A	I
EM58264	I
12:56	
7:01	EJ 1 12/4/19
EM58264	I
EM1801756558	I
J	
J	

[Signature]
 Extraction Chemist
11/23/19
 Date

Continued from Page _____
 Continued on Page _____

[Signature]
 Reviewed by
11/24/19
 Date

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC27A Lab ID : 306574-001 (S) Client ID : BR11-1GW01
 Seqnum : 979033612187.1 Matrix : Water Acct : TRC-SF (MJD)
 File : 023a187 Batch : 267176 Time : 26-JAN-2019 23:50
 IDF : 1.0 Raw Units : mg/L Units : ug/L

520.00 mL --> 2.5 ml = 0.004808 ml/ml PDF

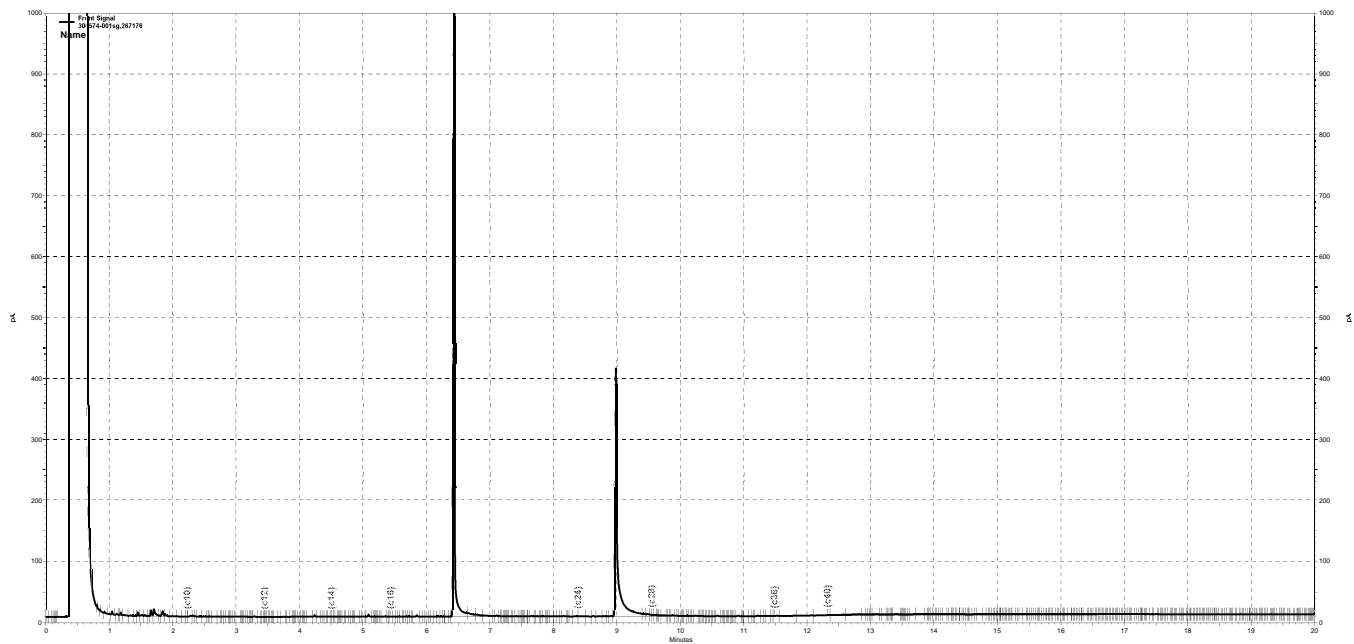
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	979016508004	2.114	ND	48		u
Motor Oil C24-C36	979020789002	4.757	ND	290		u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	979016508005	34.11	240.4	164.0	68	68-124	u

VQ 01/27/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 01/28/19 Reviewer: EAH Date: 02/04/19

u=use



— G:\ezchrom\Projects\GC27\Data\2019\023a187.dat, Front Signal

Sample Name: 306574-001sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a187.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_021.met
 Run Date: 1/26/2019 11:50:42 PM
 Analysis Date: 1/27/2019 4:01:48 PM
 Instrument: GC27A Vial: 37 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		180704	0.381
DSL:10-14		105893	0.719
DSL:10-22		15339630	42.148
DSL:10-24		15430723	41.659
DSL:10-28		23532951	63.149
DSL:12-24		15371124	48.707
DSL:12-28		23473352	73.853
DSL:14-24		15328928	64.312
DSL:16-24		15258167	95.365
MO:22-32		8562850	36.822
MO:24-36		8524609	35.510
MO:28-40		833143	5.444
BUNKC:10-40		24151532	119.520
BUNKC:12-40		24091933	122.982

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

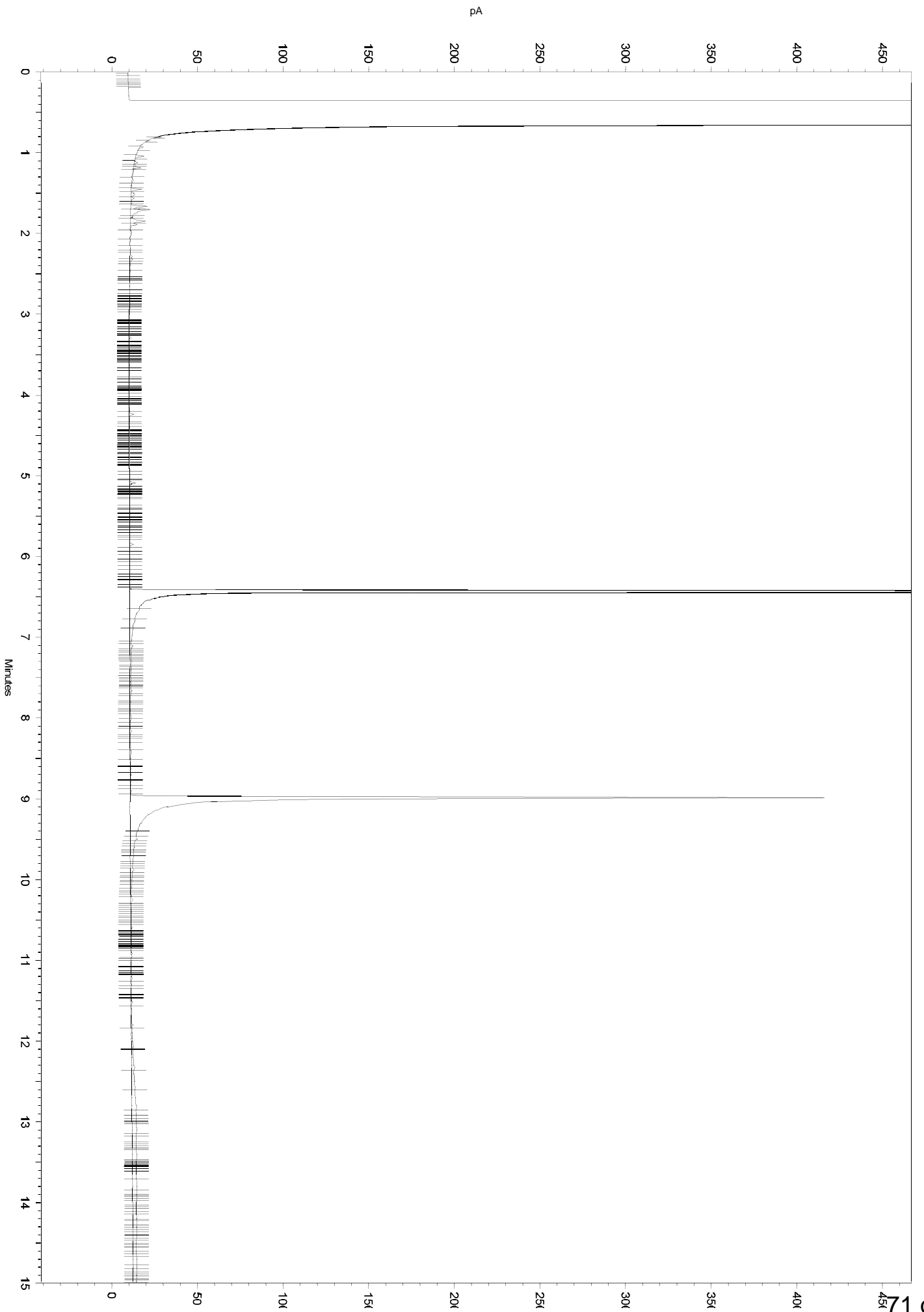
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold            0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\023a187.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      6.366     6.985     0
No Manual Baseline      8.88      9.839     0
  
```

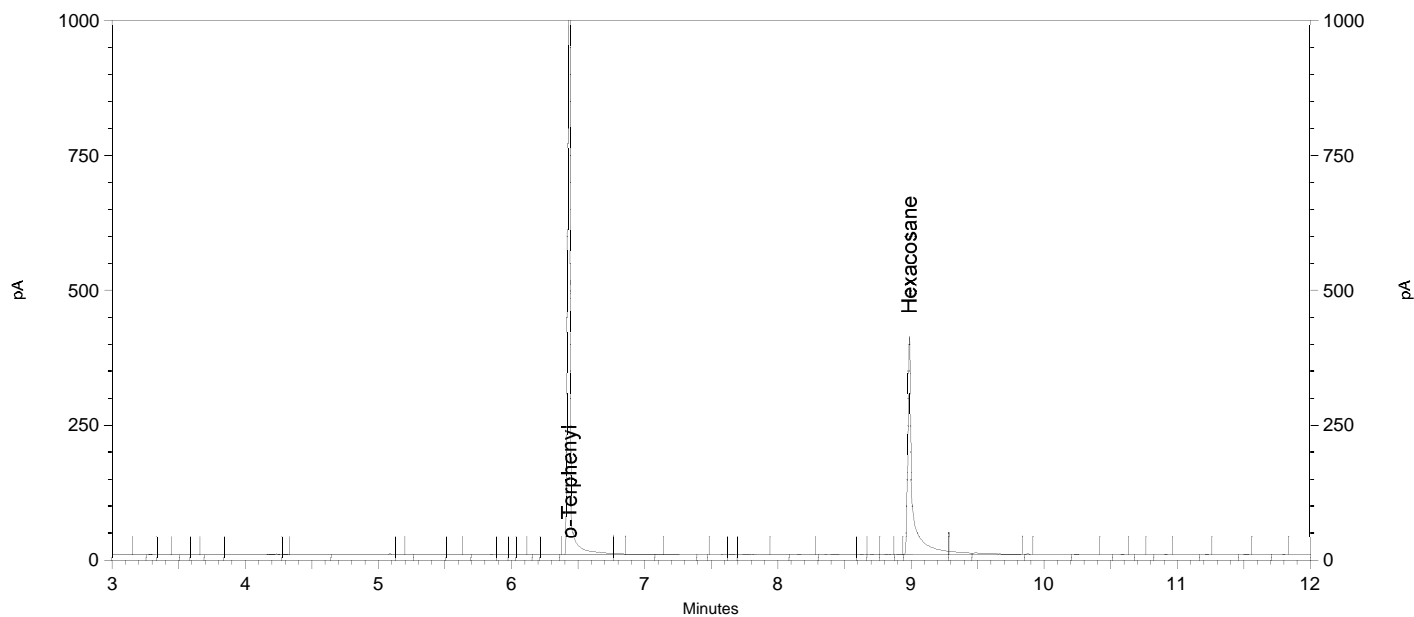
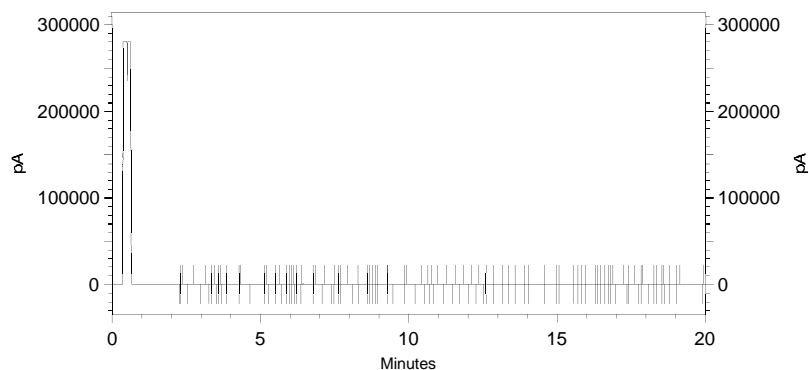


Sample Name: 306574-001sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a187.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/26/2019 11:50:42 PM
 Analysis Date: 1/27/2019 4:06:16 PM
 Instrument: GC27A Vial: 37 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.437	14647688	34.112
Hexacosane	8.987	7382737	21.370



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a187.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.365	7.486	0
Yes	Disable End Peak Detection	6.586	6.764	0
Yes	Manual Baseline	8.88	9.839	0

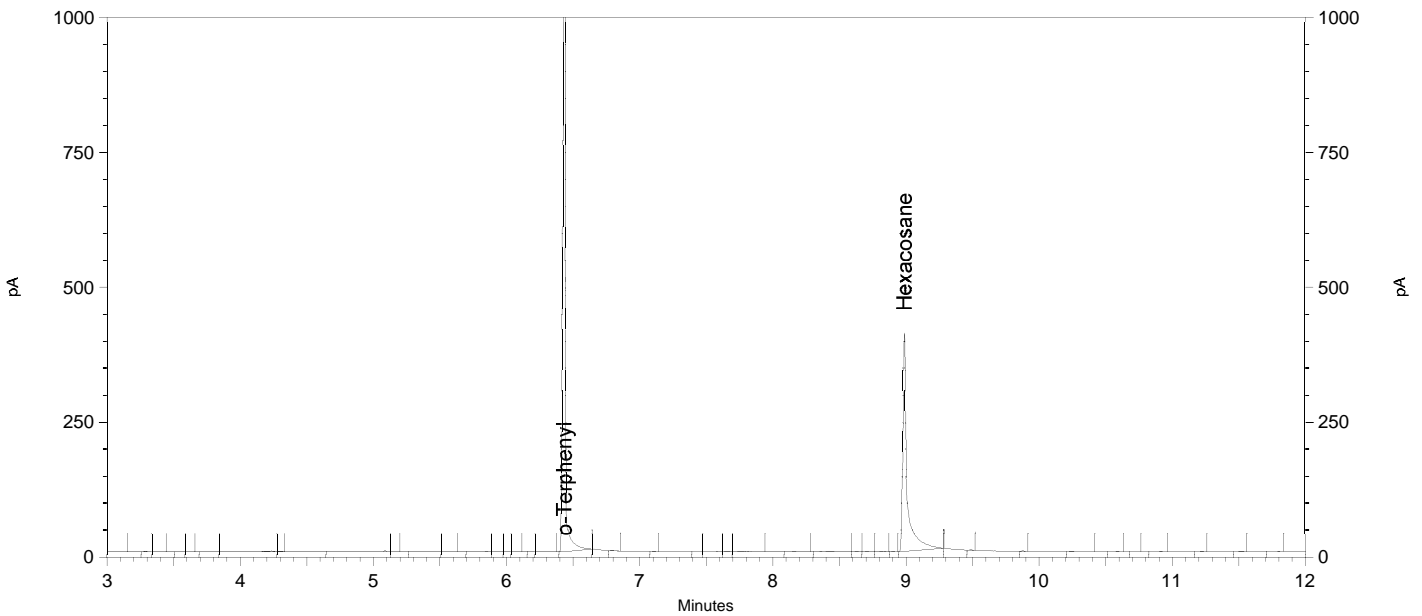
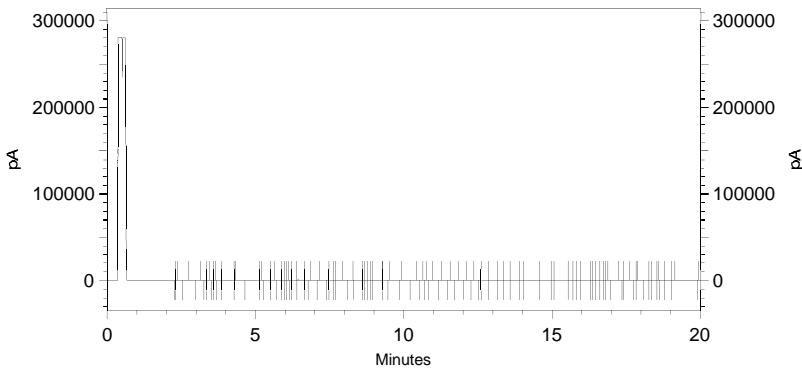
Sample Name: 306574-001sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a187.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/26/2019 11:50:42 PM
 Analysis Date: 1/27/2019 3:58:24 PM
 Instrument: GC27A Vial: 37 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.437	14086740	32.806
Hexacosane	8.987	6865144	19.872



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a187.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 306574-001 Client ID : BR11-1GW01
 Seqnum : 229040831104 Matrix : Water Acct : TRC-SF (MJD)
 File : 028_104 Batch : 267176 Time : 30-JAN-2019 09:02
 IDF : 1.0 Raw Units : mg/L Units : ug/L

520.00 mL --> 2.5 ml = 0.004808 ml/ml PDF

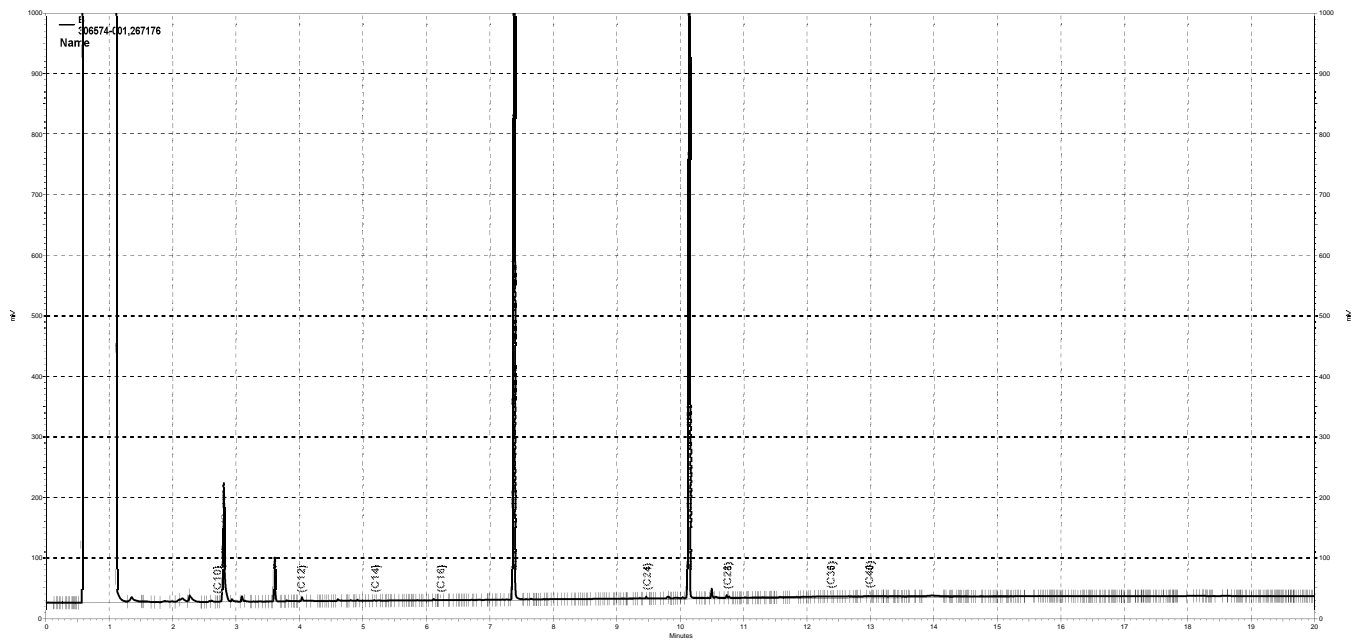
Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229036718001	19.01	91	48	18	Y u
Motor Oil C24-C36	B	229015071001	15.46	ND	290		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229016966001	43.88	240.4	211.0	88	68-124	u

TKY 01/30/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 02/01/19 Reviewer: EAH Date: 02/04/19

Y=does not resemble standard u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104, B

Sample Name: 306574-001,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 9:02:14 AM
 Analysis Date: 1/30/2019 2:21:31 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	580427	12.929
DSL:10-14	543415	36.412
DSL:10-22	3031868	74.210
DSL:10-24	3092237	73.485
DSL:10-28	5147928	120.339
DSL:12-24	2611476	70.952
DSL:12-28	4667167	124.440
DSL:14-24	2555895	89.139
DSL:16-24	2516642	125.766
MO:22-32	2249808	74.651
MO:24-36	2379945	75.240
MO:28-40	569638	27.659
BUNKC:10-40	5696958	277.634
BUNKC:12-40	5216197	261.722

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

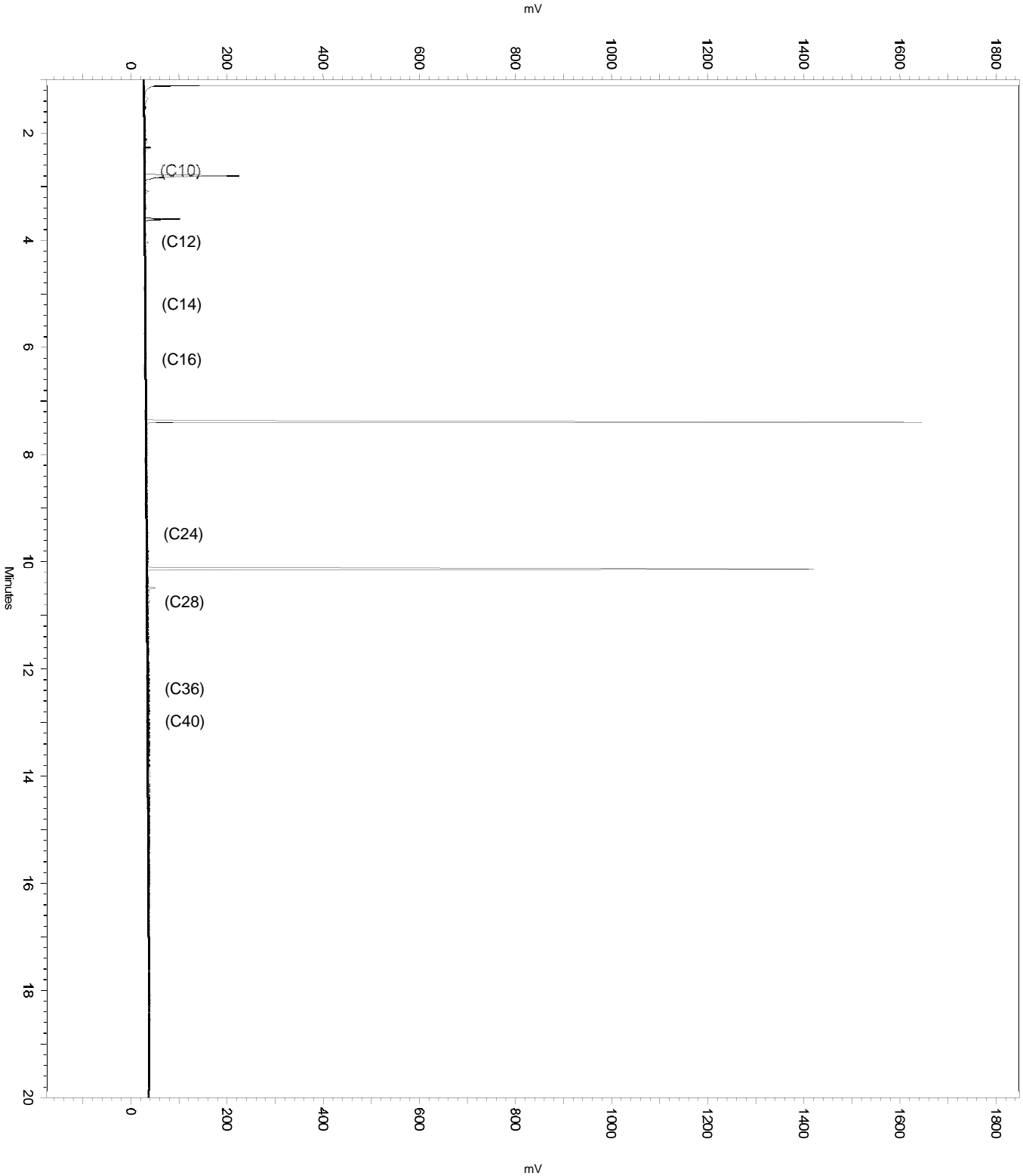
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold           0          0         10
Yes Force Peak Stop     2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Stop        2.537     17.591    0
No Manual Peak          7.331     7.525     0
No Split Peak           7.437     0          0
No Manual Peak          10.066    10.232    0
No Split Peak           10.091    0          0
No Split Peak           10.183    0          0
  
```

Sample Name: 306574-001,267176
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 9:02:14 AM
Analysis Date: 1/30/2019 2:21:31 PM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 306574-001,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 9:02:14 AM
 Analysis Date: 1/30/2019 2:21:18 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	516115	11.497
DSL:10-14	506569	33.943
DSL:10-22	2842183	69.568
DSL:10-24	2857662	67.911
DSL:10-28	4840729	113.158
DSL:12-24	2384060	64.773
DSL:12-28	4367127	116.440
DSL:14-24	2353534	82.081
DSL:16-24	2342544	117.066
MO:22-32	2069773	68.677
MO:24-36	2203175	69.651
MO:28-40	420335	20.410
BUNKC:10-40	5247173	255.714
BUNKC:12-40	4773571	239.513

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

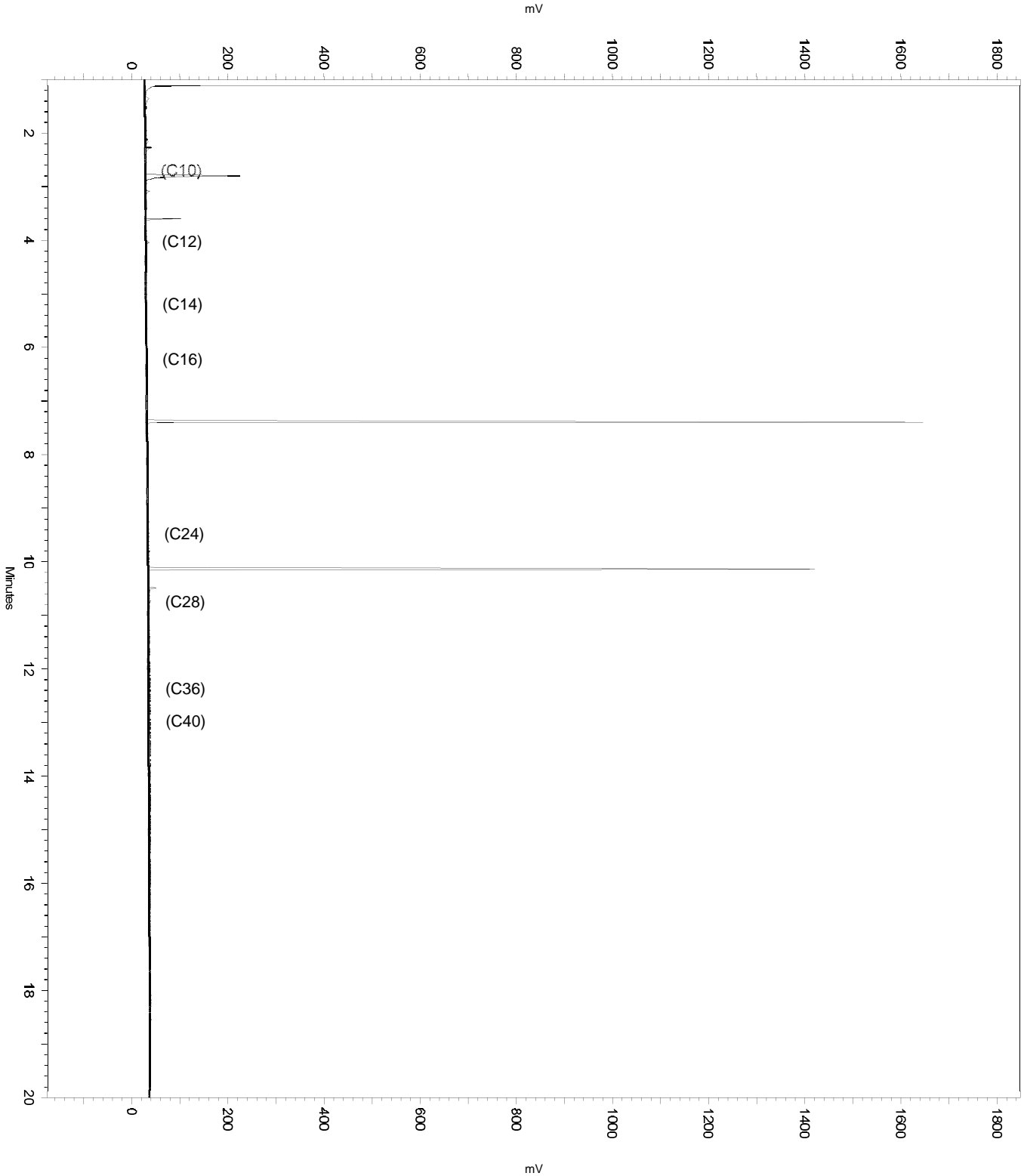
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.331	7.525	0
No	Split Peak	7.437	0	0
No	Manual Peak	10.066	10.232	0
No	Split Peak	10.091	0	0
No	Split Peak	10.183	0	0

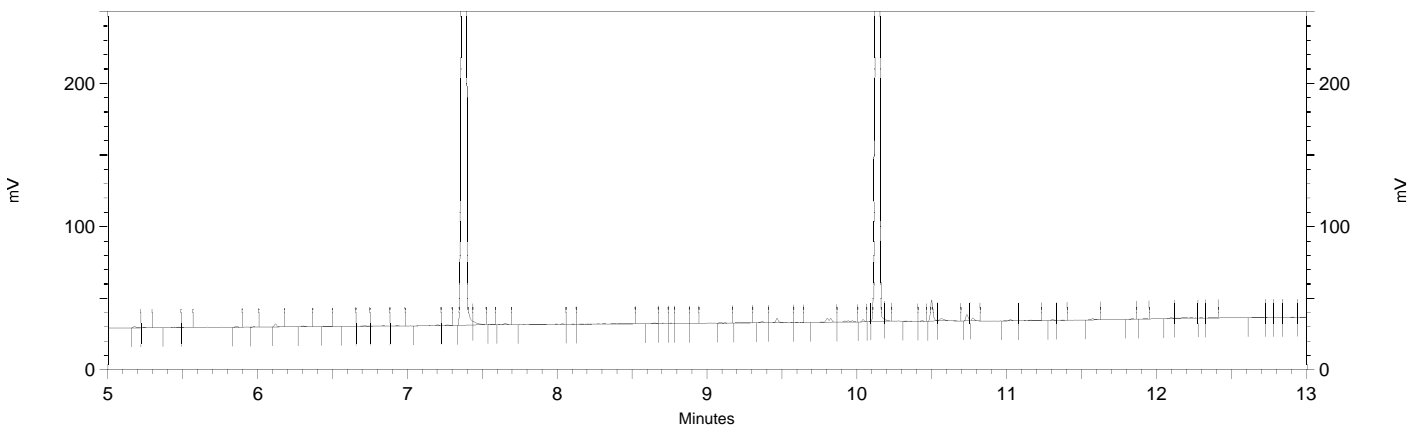
Sample Name: 306574-001,267176
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 9:02:14 AM
Analysis Date: 1/30/2019 2:21:18 PM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 306574-001,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 9:02:14 AM
 Analysis Date: 1/30/2019 2:15:13 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.387	2292461	43.883
Hexacosane	10.147	1890949	44.931



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

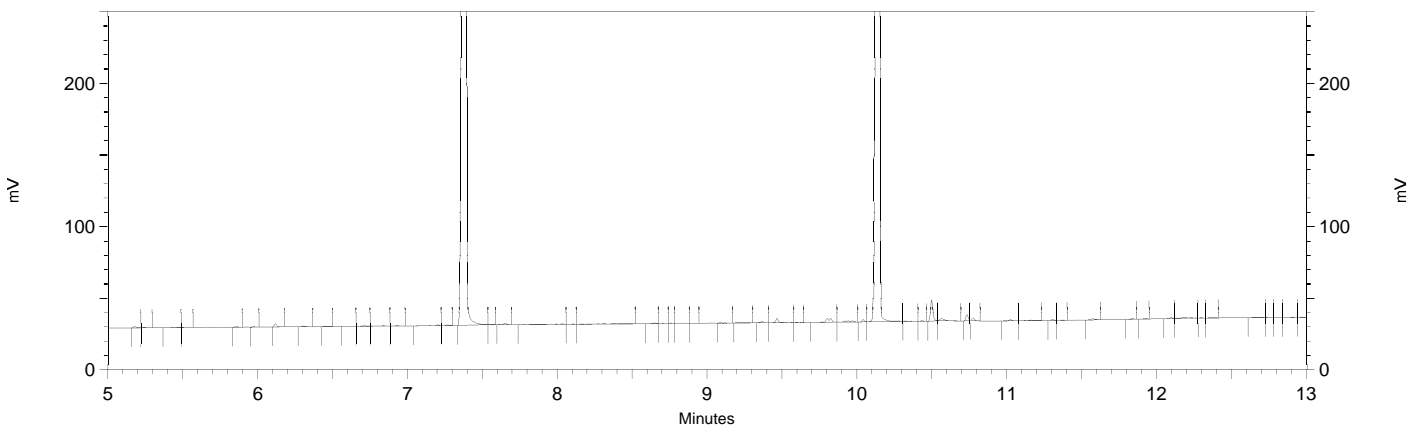
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.331	7.525	0
Yes	Split Peak	7.437	0	0
Yes	Manual Peak	10.066	10.232	0
Yes	Split Peak	10.091	0	0
Yes	Split Peak	10.183	0	0

Sample Name: 306574-001,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 9:02:14 AM
 Analysis Date: 1/30/2019 2:14:43 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.387	2297148	43.973
Hexacosane	10.147	1894688	45.020



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b104
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC27A Lab ID : 306574-002 (S) Client ID : BR11-1GW02
 Seqnum : 979033612188.1 Matrix : Water Acct : TRC-SF (MJD)
 File : 023a188 Batch : 267176 Time : 27-JAN-2019 00:15
 IDF : 1.0 Raw Units : mg/L Units : ug/L

520.00 mL --> 2.5 ml = 0.004808 ml/ml PDF

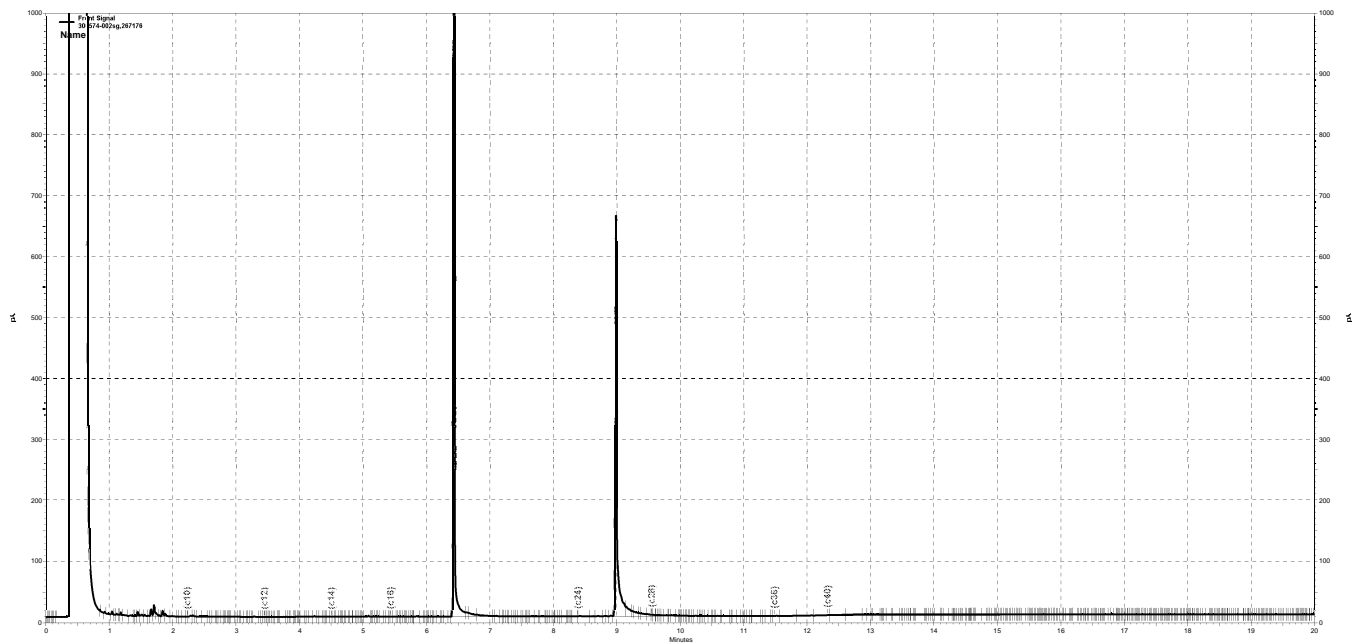
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	979016508004	2.712	ND	48		u
Motor Oil C24-C36	979020789002	9.163	ND	290		u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	979016508005	41.80	240.4	201.0	84	68-124	u

VQ 01/27/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 01/28/19 Reviewer: EAH Date: 02/04/19

u=use



— G:\ezchrom\Projects\GC27\Data\2019\023a188.dat, Front Signal

Sample Name: 306574-002sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a188.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_021.met
 Run Date: 1/27/2019 12:15:06 AM
 Analysis Date: 1/27/2019 4:01:55 PM
 Instrument: GC27A Vial: 38 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		152045	0.321
DSL:10-14		100805	0.685
DSL:10-22		18889602	51.903
DSL:10-24		18954113	51.171
DSL:10-28		29415114	78.933
DSL:12-24		18886447	59.846
DSL:12-28		29347448	92.335
DSL:14-24		18856433	79.112
DSL:16-24		18810305	117.566
MO:22-32		10906720	46.902
MO:24-36		10895951	45.388
MO:28-40		809809	5.292
BUNKC:10-40		30009016	148.508
BUNKC:12-40		29941350	152.841

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

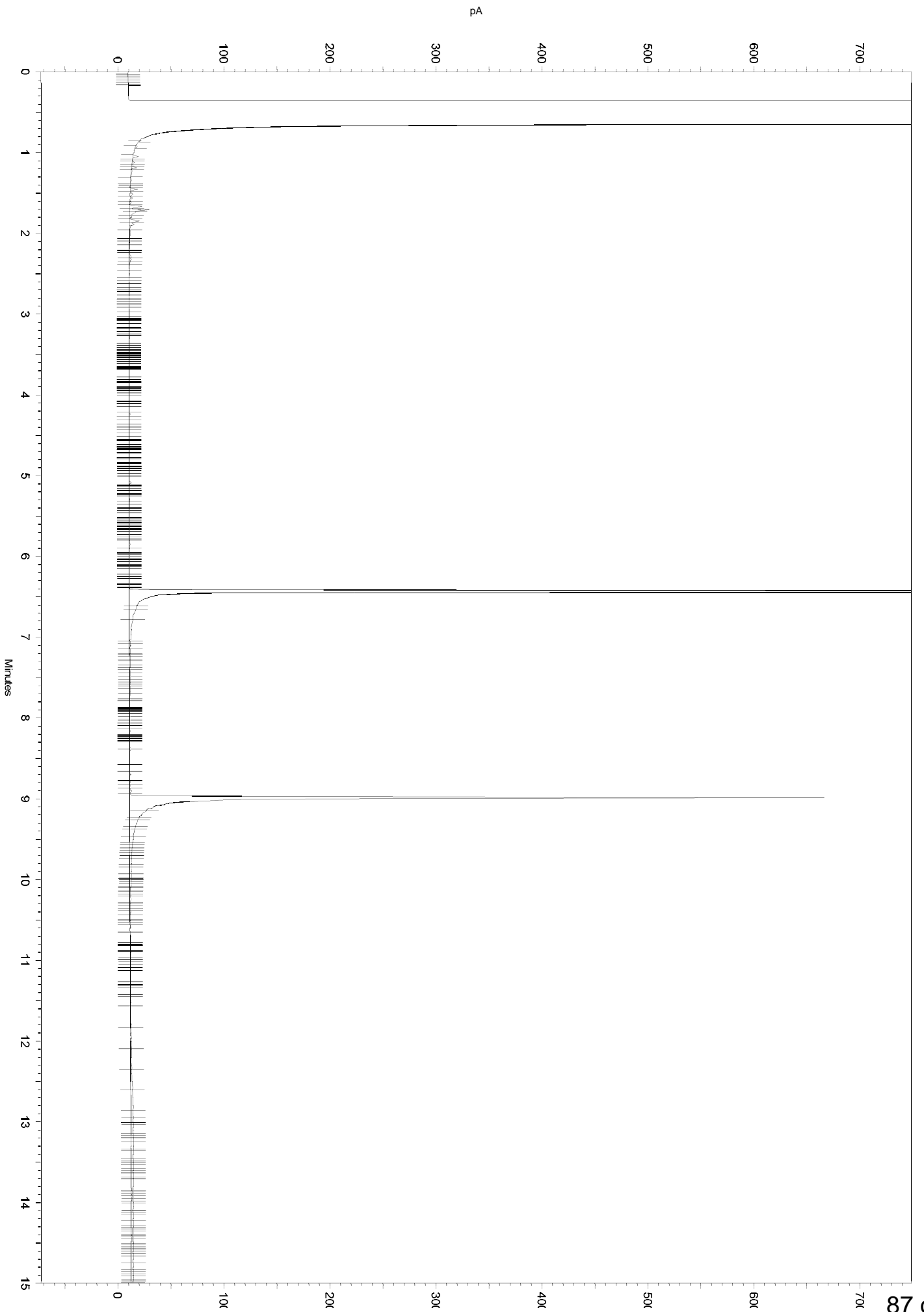
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a188.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.321	6.953	0
No	Manual Baseline	8.876	9.742	0



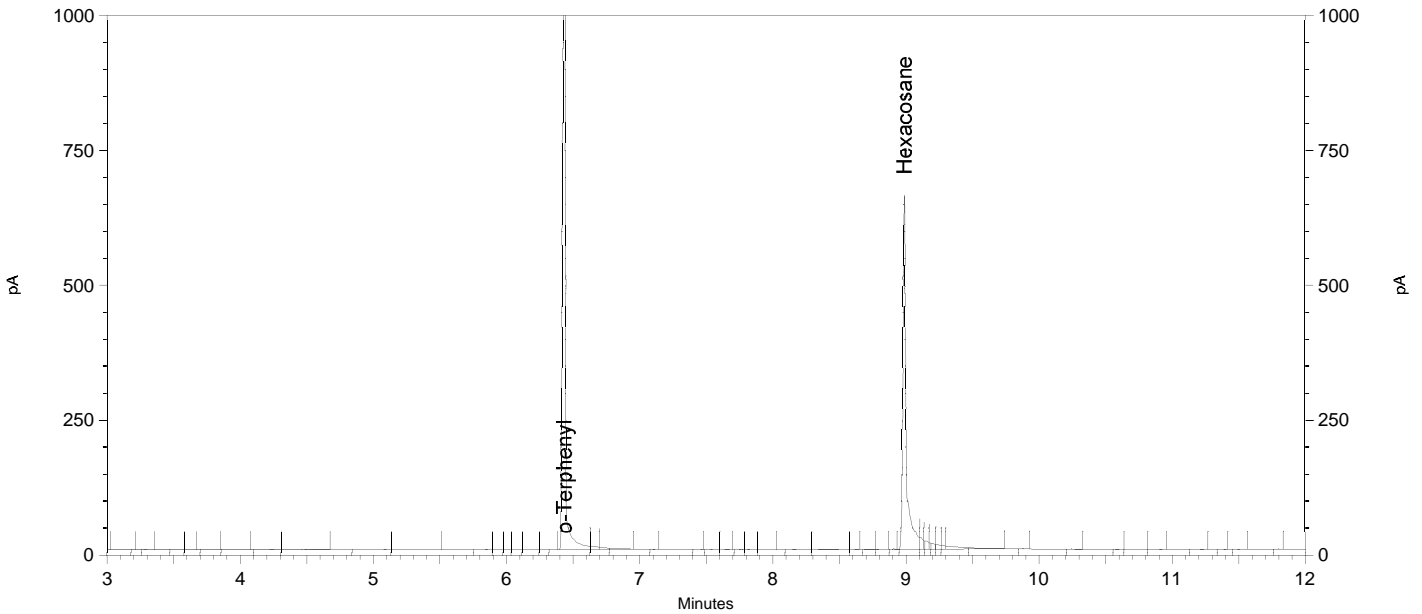
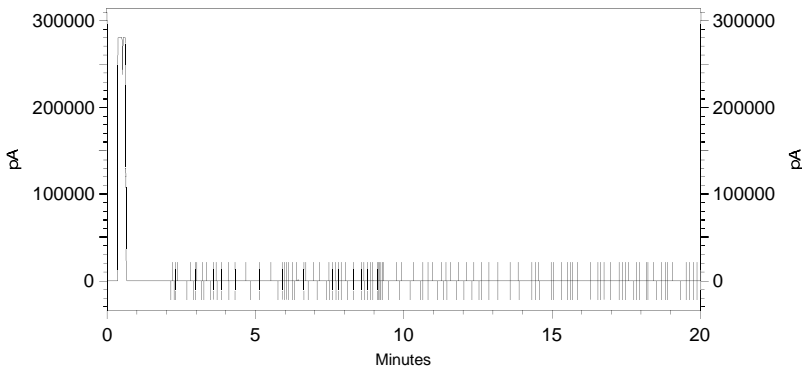
Sample Name: 306574-002sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a188.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/27/2019 12:15:06 AM
 Analysis Date: 1/27/2019 3:58:58 PM
 Instrument: GC27A Vial: 38 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.438	17949629	41.802
Hexacosane	8.987	8696240	25.173



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a188.dat

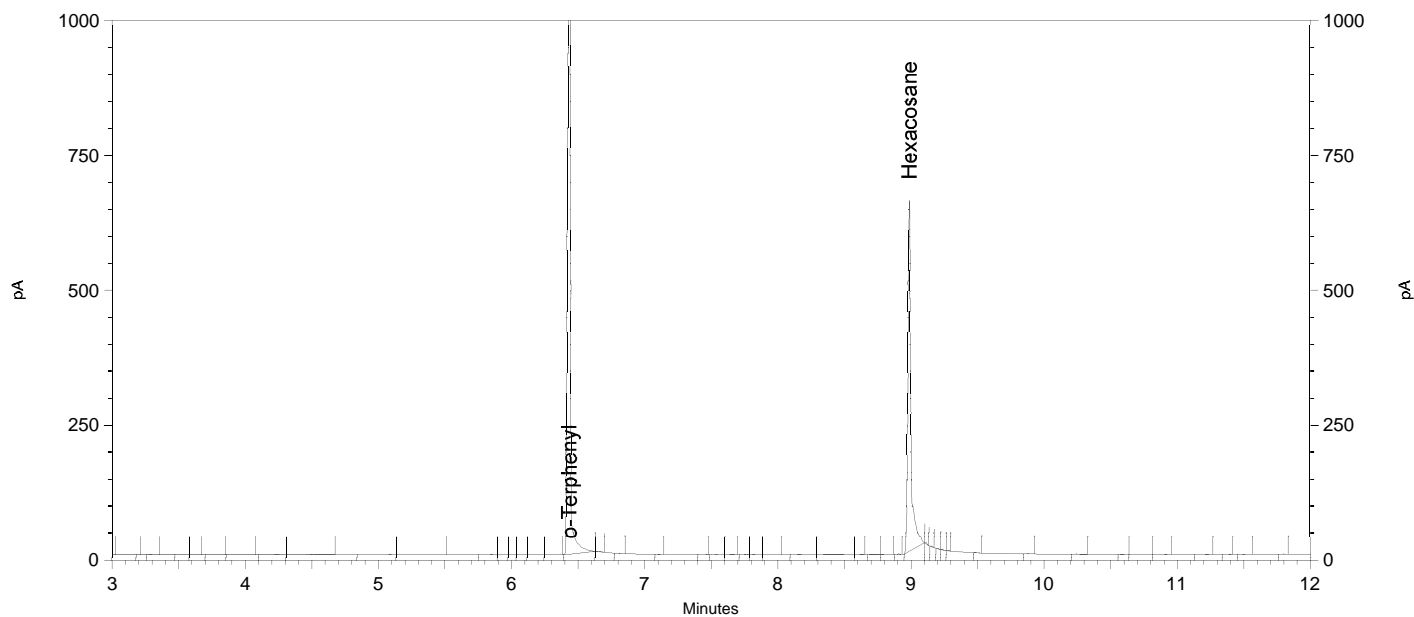
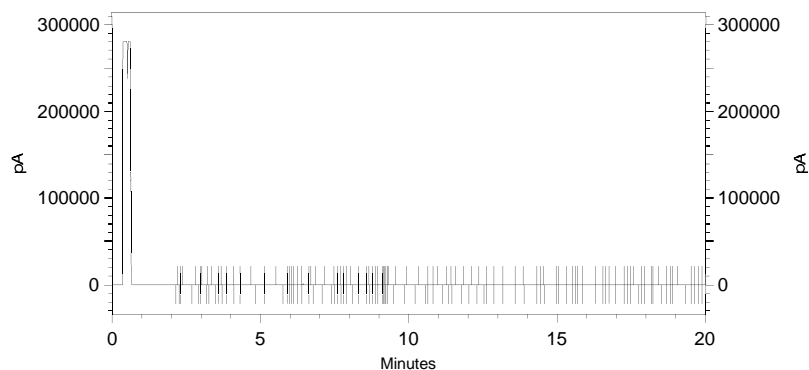
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.321	6.953	0
Yes	Manual Baseline	8.876	9.742	0

Sample Name: 306574-002sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a188.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/27/2019 12:15:06 AM
 Analysis Date: 1/27/2019 3:58:44 PM
 Instrument: GC27A Vial: 38 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.438	17642971	41.088
Hexacosane	8.987	7920394	22.927



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a188.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 306574-002 Client ID : BR11-1GW02
 Seqnum : 229040831105 Matrix : Water Acct : TRC-SF (MJD)
 File : 028_105 Batch : 267176 Time : 30-JAN-2019 09:29
 IDF : 1.0 Raw Units : mg/L Units : ug/L

520.00 mL --> 2.5 ml = 0.004808 ml/ml PDF

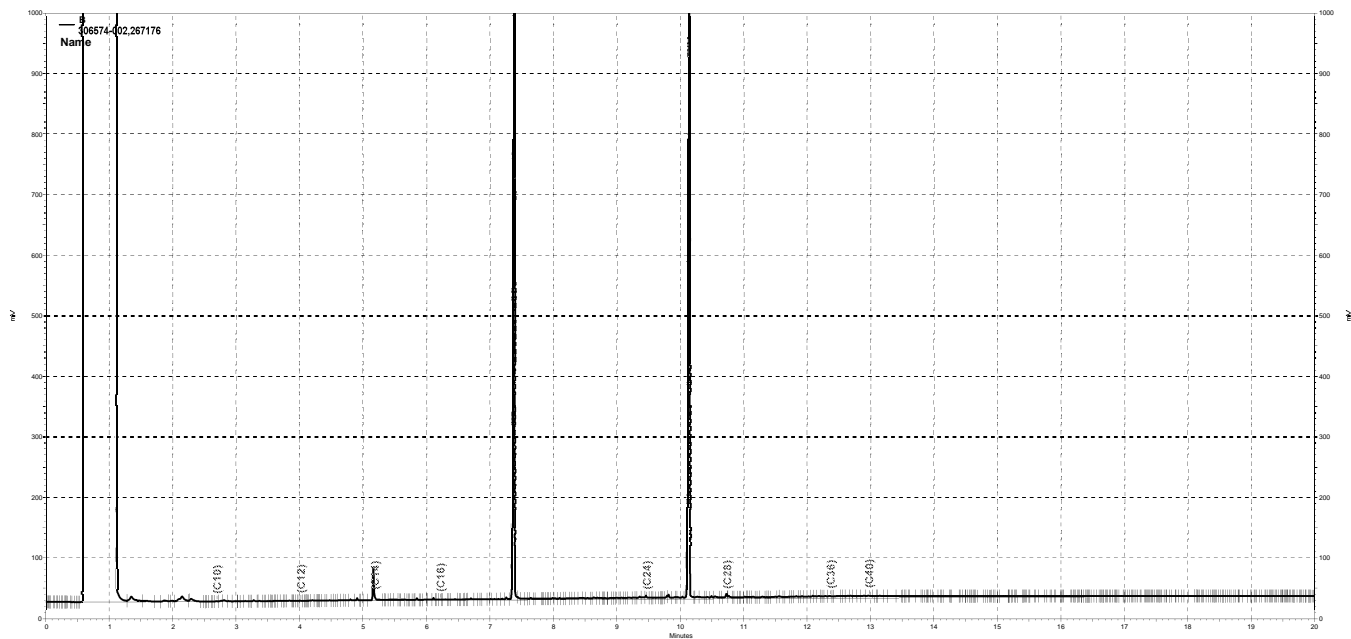
Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229036718001	15.52	75	48	18	Y u
Motor Oil C24-C36	B	229015071001	20.95	ND	290		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229016966001	44.54	240.4	214.1	89	68-124	u

TKY 01/30/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 02/01/19 Reviewer: EAH Date: 02/04/19

Y=does not resemble standard u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105, B

Sample Name: 306574-002,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 9:29:20 AM
 Analysis Date: 1/30/2019 2:22:05 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	252327	5.621
DSL:10-14	169289	11.343
DSL:10-22	2867232	70.181
DSL:10-24	2979616	70.809
DSL:10-28	5110558	119.465
DSL:12-24	2947608	80.084
DSL:12-28	5078550	135.409
DSL:14-24	2891596	100.846
DSL:16-24	2740909	136.974
MO:22-32	2449914	81.291
MO:24-36	2567694	81.175
MO:28-40	732926	35.588
BUNKC:10-40	5808983	283.093
BUNKC:12-40	5776975	289.859

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

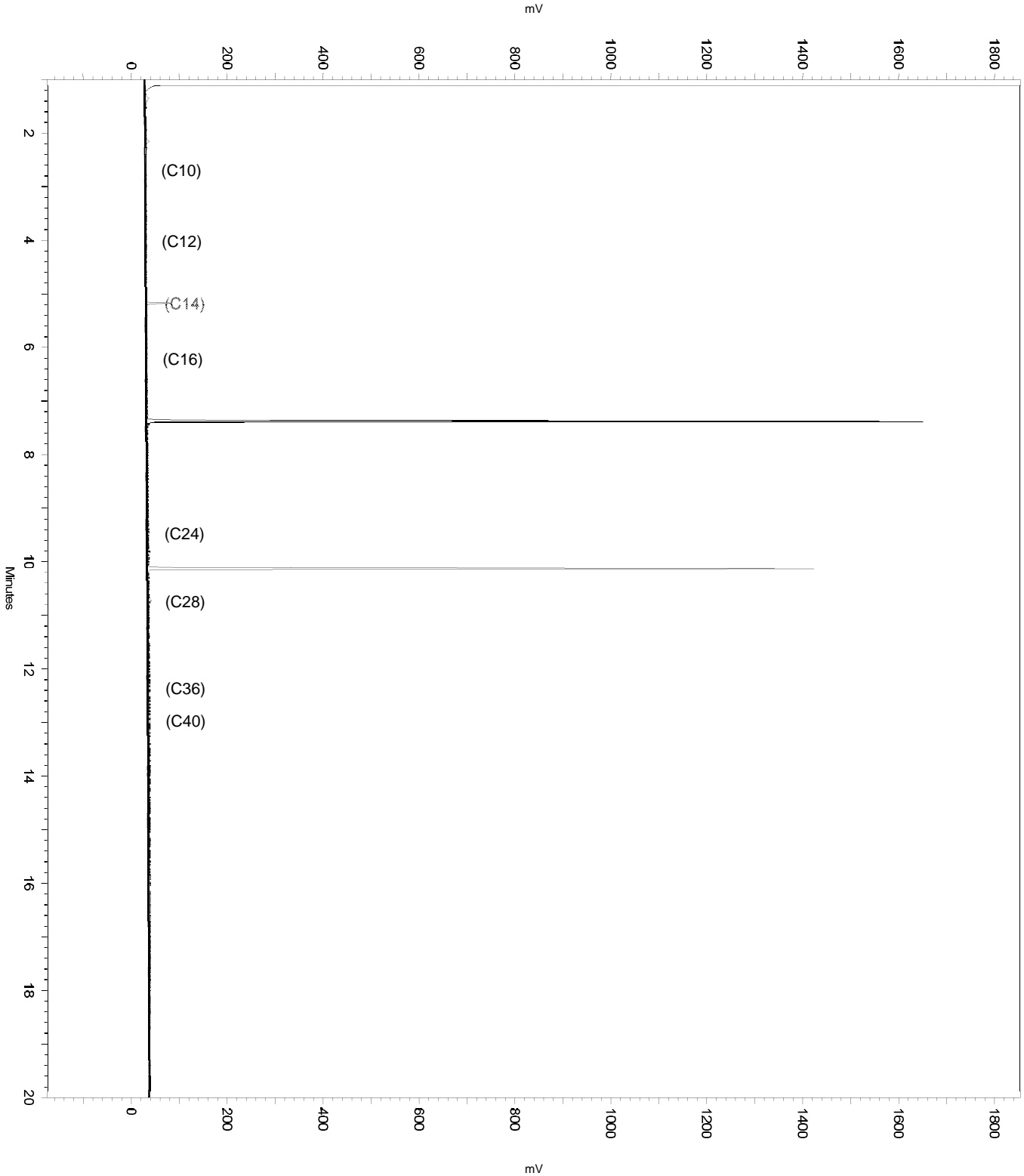
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	3.063	19.362	0
No	Manual Peak	7.329	7.497	0
No	Split Peak	7.429	0	0
No	Manual Peak	10.07	10.223	0
No	Split Peak	10.089	0	0
No	Split Peak	10.189	0	0

Sample Name: 306574-002,267176
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 9:29:20 AM
Analysis Date: 1/30/2019 2:22:05 PM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 306574-002,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 9:29:20 AM
 Analysis Date: 1/30/2019 2:21:40 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	146197	3.257
DSL:10-14	118613	7.948
DSL:10-22	2540632	62.187
DSL:10-24	2571600	61.112
DSL:10-28	4533320	105.971
DSL:12-24	2547640	69.217
DSL:12-28	4509360	120.232
DSL:14-24	2524468	88.043
DSL:16-24	2427467	121.310
MO:22-32	2018167	66.965
MO:24-36	2016011	63.734
MO:28-40	70699	3.433
BUNKC:10-40	4591877	223.779
BUNKC:12-40	4567917	229.194

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

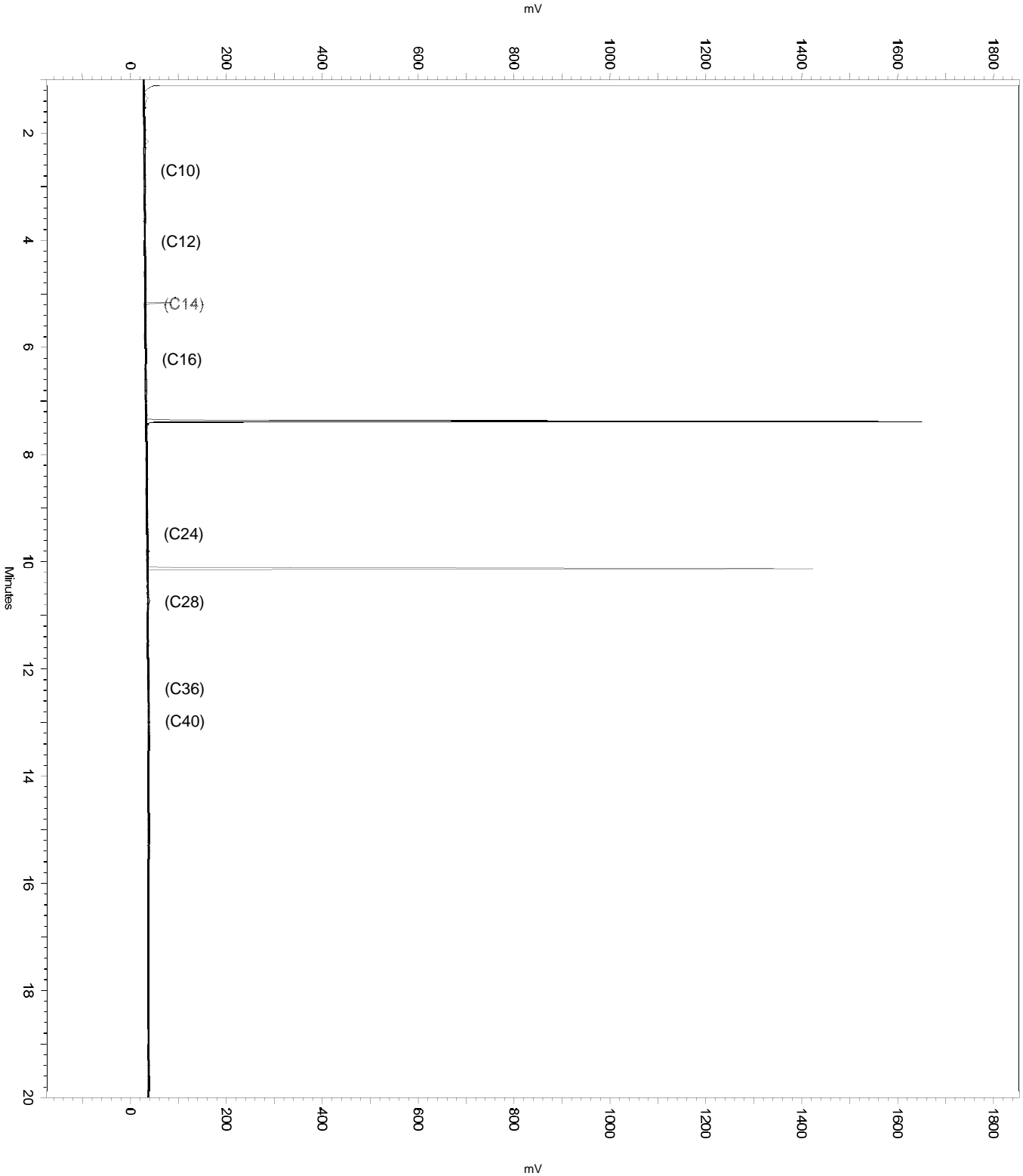
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.329	7.497	0
No	Split Peak	7.429	0	0
No	Manual Peak	10.07	10.223	0
No	Split Peak	10.089	0	0
No	Split Peak	10.189	0	0

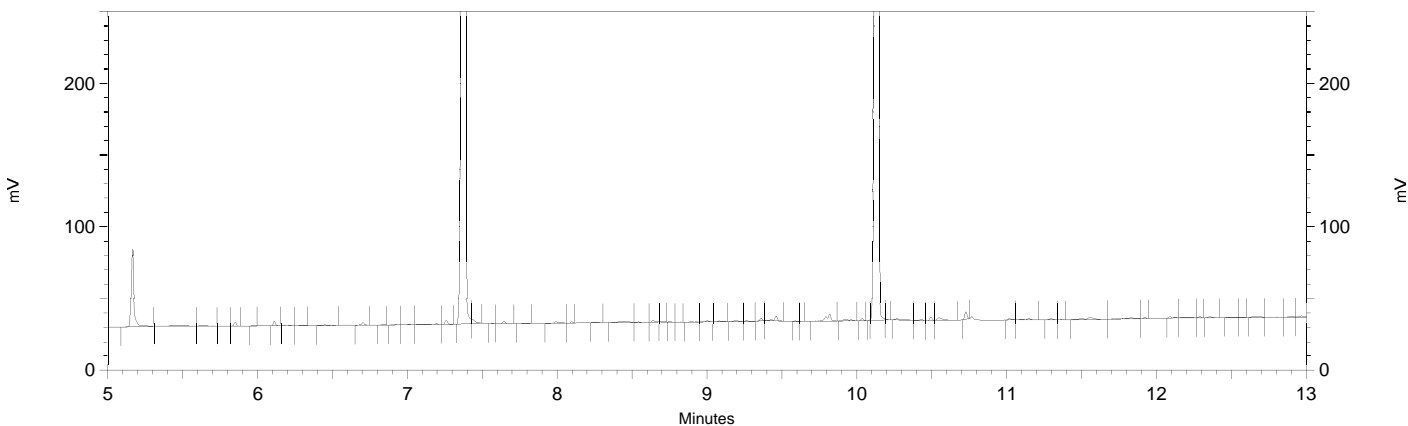
Sample Name: 306574-002,267176
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 9:29:20 AM
Analysis Date: 1/30/2019 2:21:40 PM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 306574-002,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 9:29:20 AM
 Analysis Date: 1/30/2019 2:15:51 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.383	2326686	44.538
Hexacosane	10.140	1904920	45.263



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off      0          2     0
Yes Valley to Valley     0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

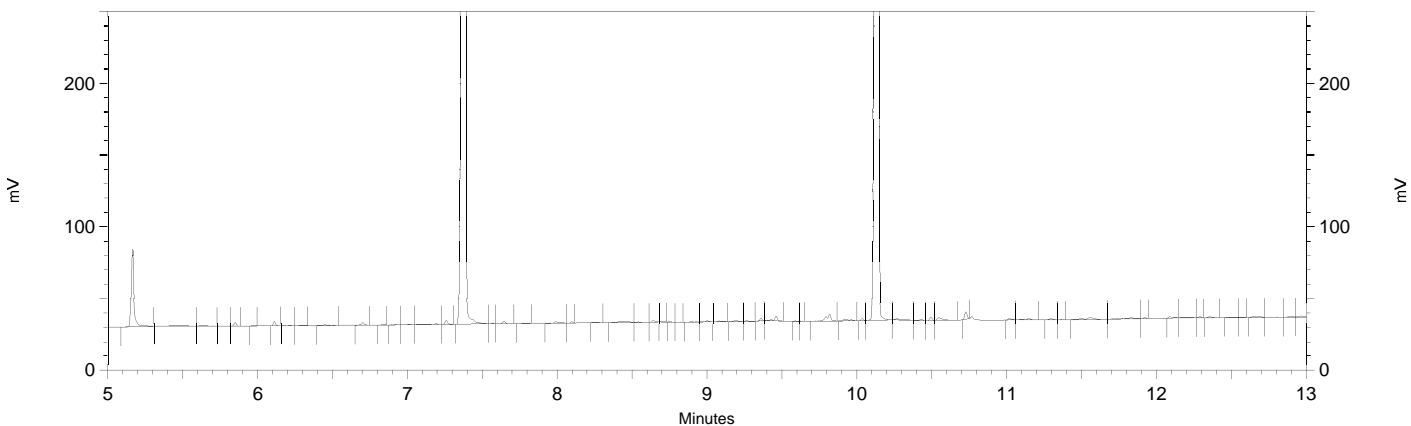
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Manual Peak         7.329     7.497     0
Yes Split Peak          7.429     0         0
Yes Manual Peak         10.07     10.223    0
Yes Split Peak          10.089    0         0
Yes Split Peak          10.189    0         0
  
```

Sample Name: 306574-002,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 9:29:20 AM
 Analysis Date: 1/30/2019 2:15:20 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.383	2334756	44.693
Hexacosane	10.140	1906027	45.290



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b105
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC27A Lab ID : 306574-003 (S) Client ID : BR11-1GW03
 Seqnum : 979033612189.1 Matrix : Water Acct : TRC-SF (MJD)
 File : 023a189 Batch : 267176 Time : 27-JAN-2019 00:39
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

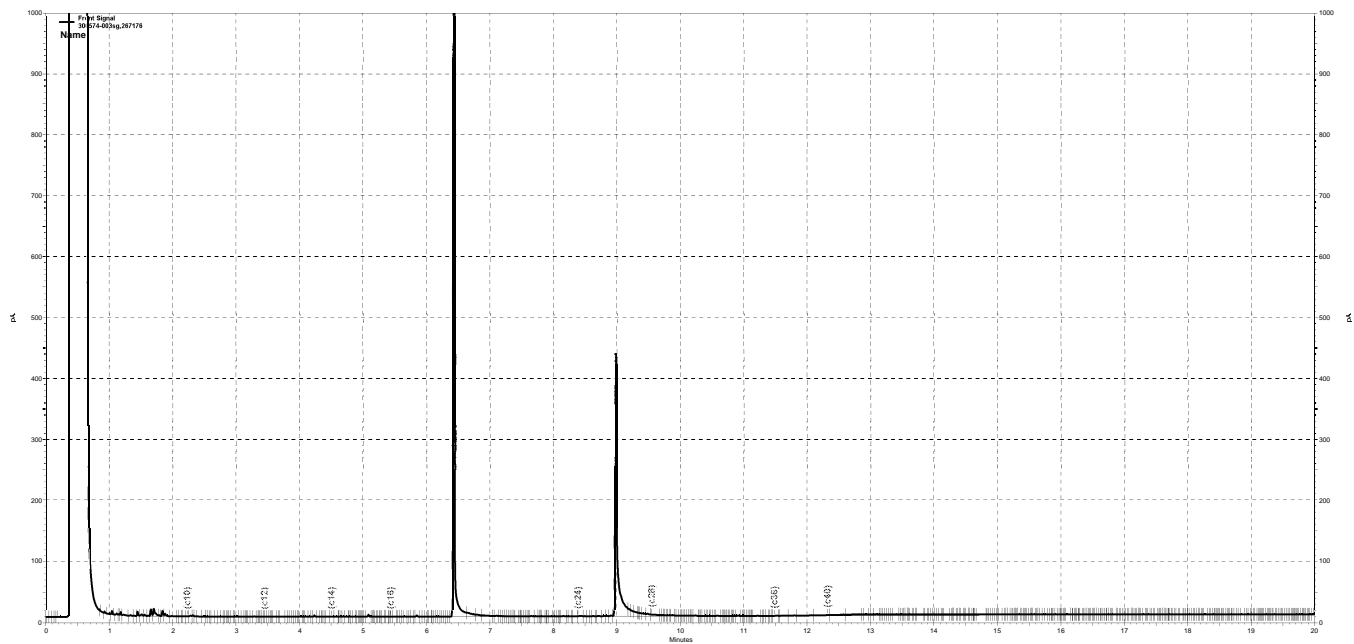
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	979016508004	2.499	ND	50		u
Motor Oil C24-C36	979020789002	6.859	ND	300		u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	979016508005	36.77	250.0	183.8	74	68-124	u

VQ 01/27/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 01/28/19 Reviewer: EAH Date: 02/04/19

u=use



— G:\ezchrom\Projects\GC27\Data\2019\023a189.dat, Front Signal

Sample Name: 306574-003sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a189.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_021.met
 Run Date: 1/27/2019 12:39:52 AM
 Analysis Date: 1/27/2019 4:02:03 PM
 Instrument: GC27A Vial: 39 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		163245	0.345
DSL:10-14		102837	0.699
DSL:10-22		16663169	45.785
DSL:10-24		16713752	45.123
DSL:10-28		25291144	67.867
DSL:12-24		16650371	52.761
DSL:12-28		25227763	79.373
DSL:14-24		16614558	69.706
DSL:16-24		16557818	103.488
MO:22-32		8985704	38.641
MO:24-36		8985088	37.428
MO:28-40		847545	5.538
BUNKC:10-40		25873441	128.042
BUNKC:12-40		25810060	131.752

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

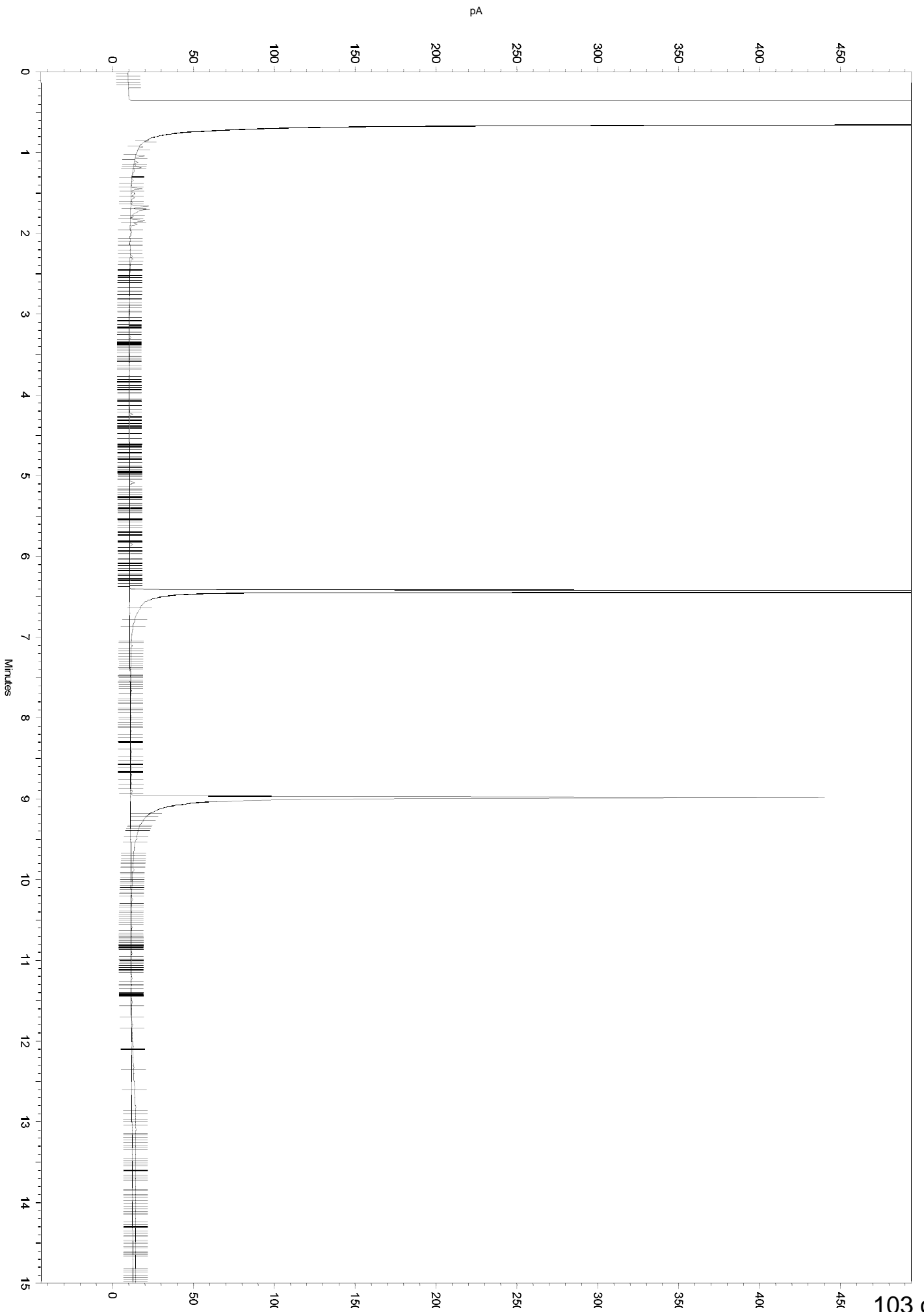
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a189.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.379	6.918	0
No	Manual Baseline	8.887	9.63	0



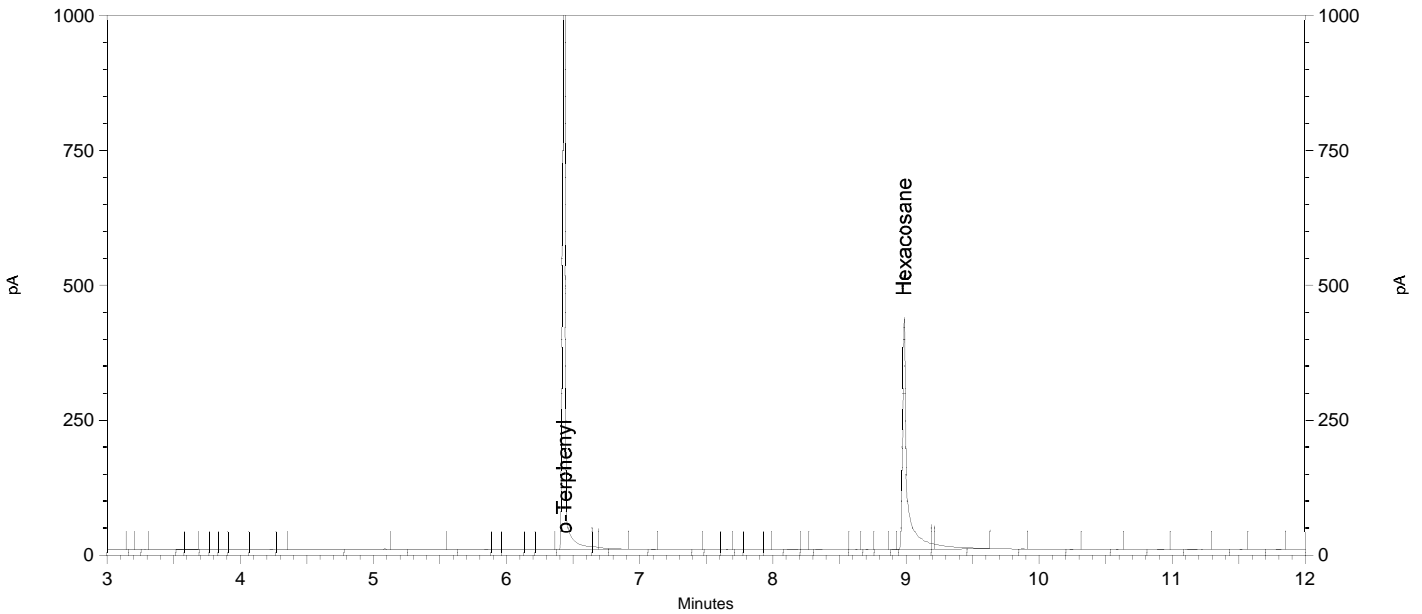
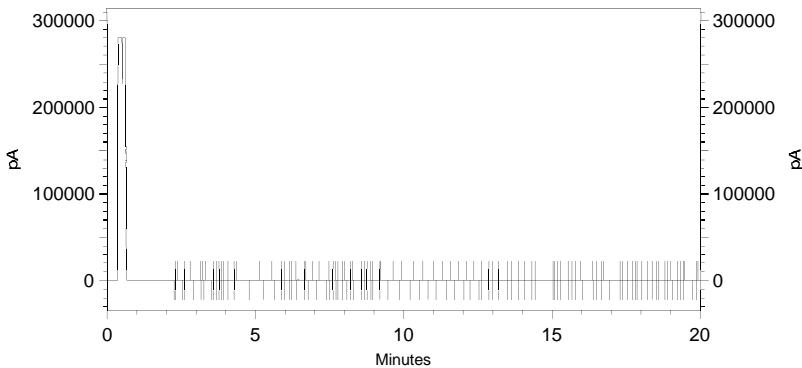
Sample Name: 306574-003sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a189.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/27/2019 12:39:52 AM
 Analysis Date: 1/27/2019 3:59:17 PM
 Instrument: GC27A Vial: 39 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.437	15788083	36.768
Hexacosane	8.985	7338552	21.243



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a189.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.379	6.918	0
Yes	Manual Baseline	8.887	9.63	0

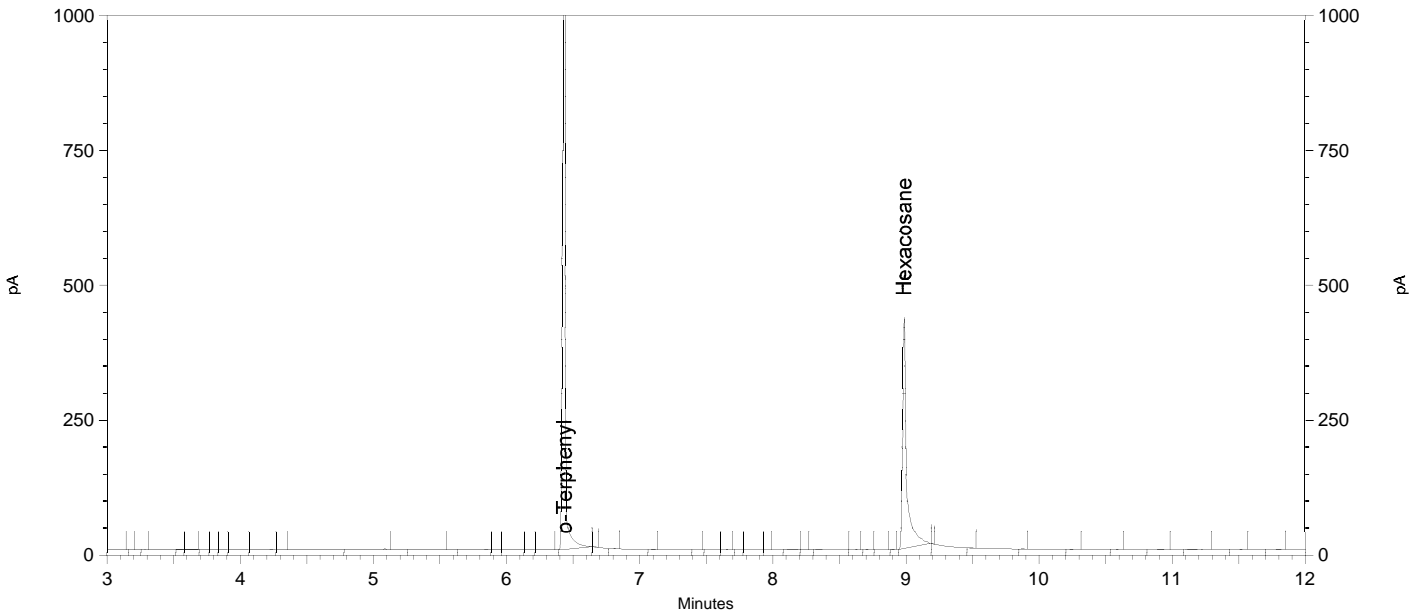
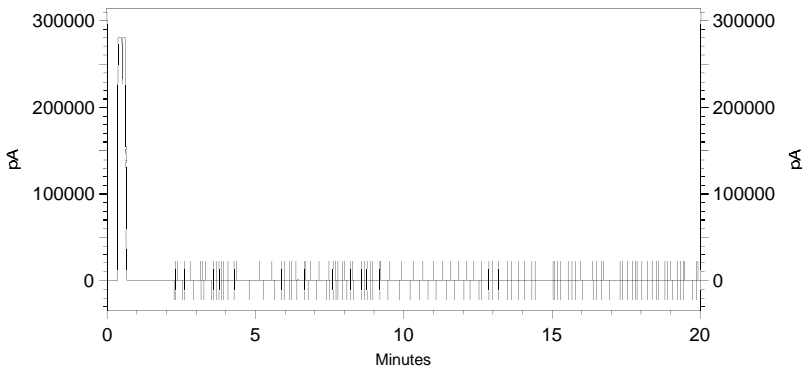
Sample Name: 306574-003sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a189.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/27/2019 12:39:52 AM
 Analysis Date: 1/27/2019 3:59:06 PM
 Instrument: GC27A Vial: 39 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.437	15476879	36.043
Hexacosane	8.985	6711199	19.427



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a189.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 306574-003 Client ID : BR11-1GW03
 Seqnum : 229040831106 Matrix : Water Acct : TRC-SF (MJD)
 File : 028_106 Batch : 267176 Time : 30-JAN-2019 09:56
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

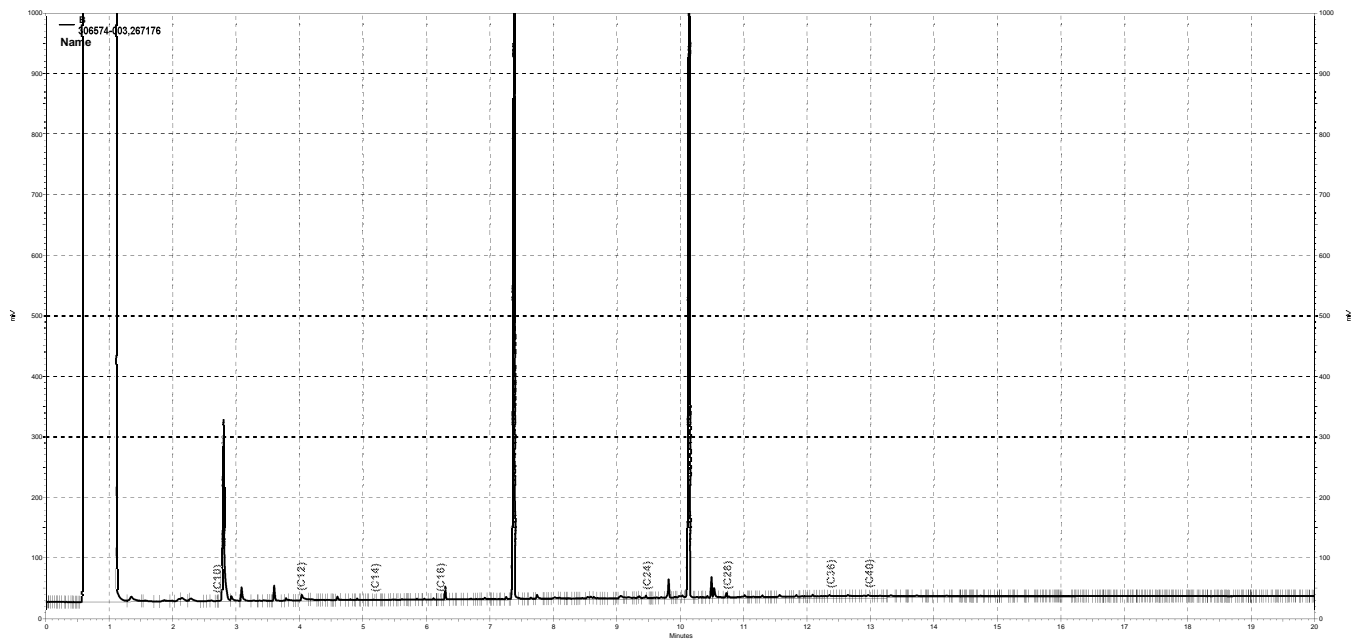
Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229036718001	31.74	160	50	18	Y u
Motor Oil C24-C36	B	229015071001	24.80	ND	300		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229016966001	43.67	250.0	218.4	87	68-124	u

TKY 01/30/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 02/01/19 Reviewer: EAH Date: 02/04/19

Y=does not resemble standard u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106, B

Sample Name: 306574-003,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 9:56:47 AM
 Analysis Date: 1/30/2019 2:22:33 PM
 Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	927682	20.665
DSL:10-14	818879	54.869
DSL:10-22	3508124	85.868
DSL:10-24	3616984	85.955
DSL:10-28	5826429	136.199
DSL:12-24	2941108	79.907
DSL:12-28	5150553	137.328
DSL:14-24	2811629	98.058
DSL:16-24	2726431	136.250
MO:22-32	2525783	83.808
MO:24-36	2672862	84.500
MO:28-40	773638	37.565
BUNKC:10-40	6565307	319.952
BUNKC:12-40	5889431	295.501

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

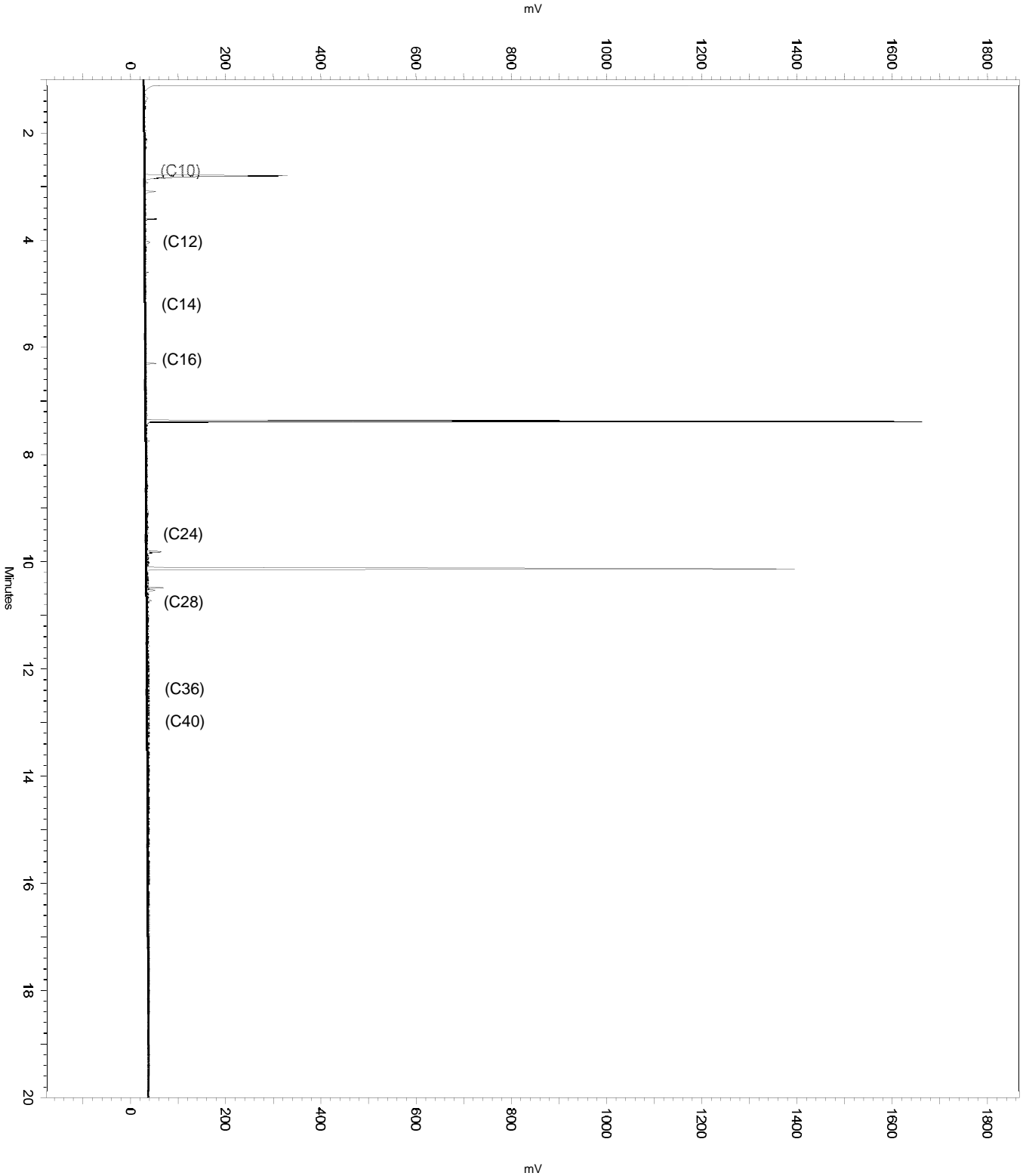
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Force Peak Stop     2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Stop        3.708     18.72     0
No Manual Peak          7.323     7.506     0
No Split Peak           7.443     0          0
No Manual Peak          10.075    10.201    0
No Split Peak           10.091     0          0
No Split Peak           10.166     0          0
No Reassign Peak        10.174    10.16     0
  
```

Sample Name: 306574-003,267176
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 9:56:47 AM
Analysis Date: 1/30/2019 2:22:33 PM
Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 306574-003,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 9:56:47 AM
 Analysis Date: 1/30/2019 2:22:18 PM
 Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	775381	17.272
DSL:10-14	734834	49.238
DSL:10-22	3154429	77.210
DSL:10-24	3198473	76.010
DSL:10-28	5265378	123.084
DSL:12-24	2550786	69.303
DSL:12-28	4617691	123.121
DSL:14-24	2467895	86.070
DSL:16-24	2445357	122.204
MO:22-32	2170586	72.022
MO:24-36	2212912	69.959
MO:28-40	184482	8.958
BUNKC:10-40	5435578	264.896
BUNKC:12-40	4787891	240.231

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

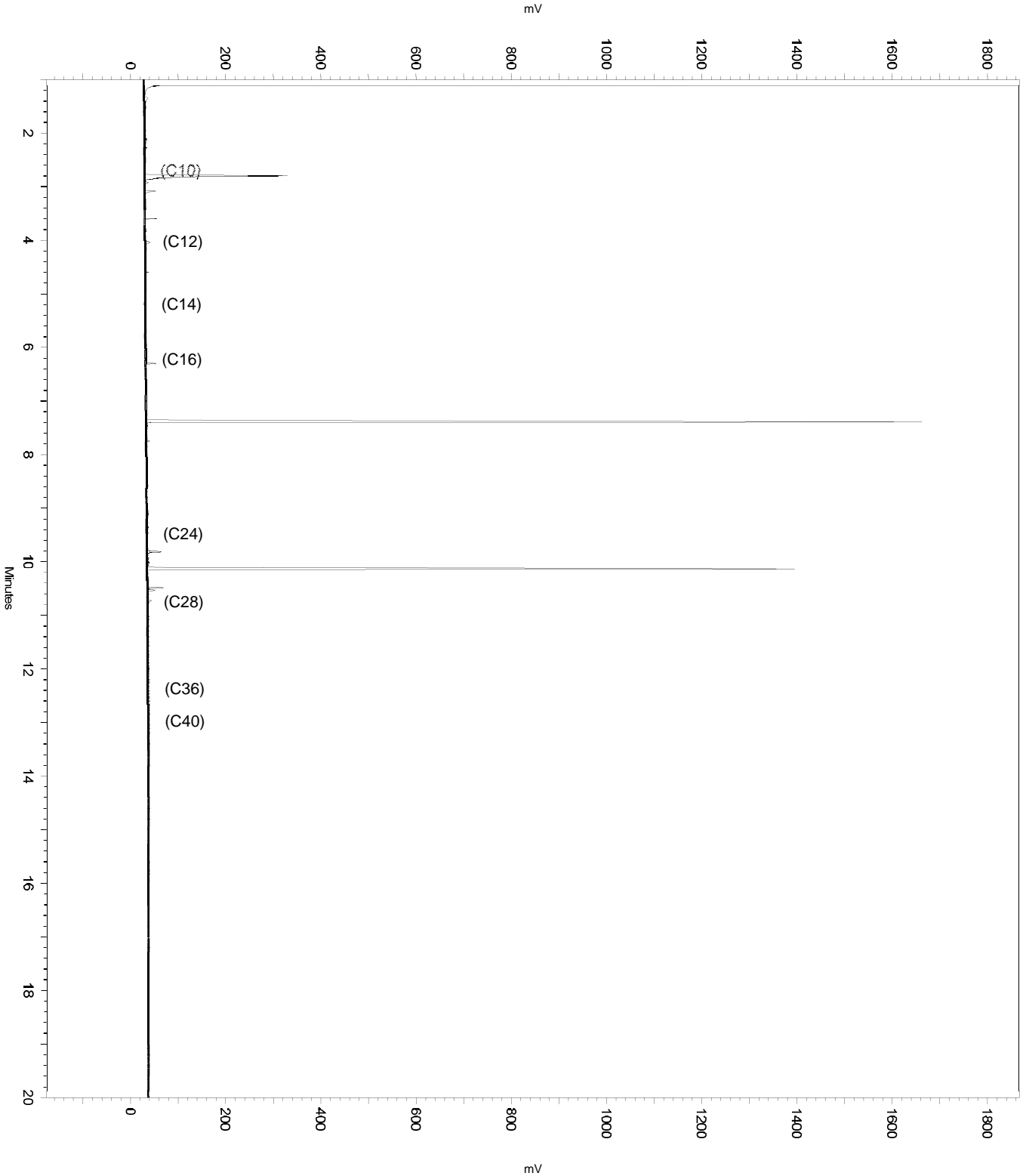
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.323	7.506	0
No	Split Peak	7.443	0	0
No	Manual Peak	10.075	10.201	0
No	Split Peak	10.091	0	0
No	Split Peak	10.166	0	0
No	Reassign Peak	10.174	10.16	0

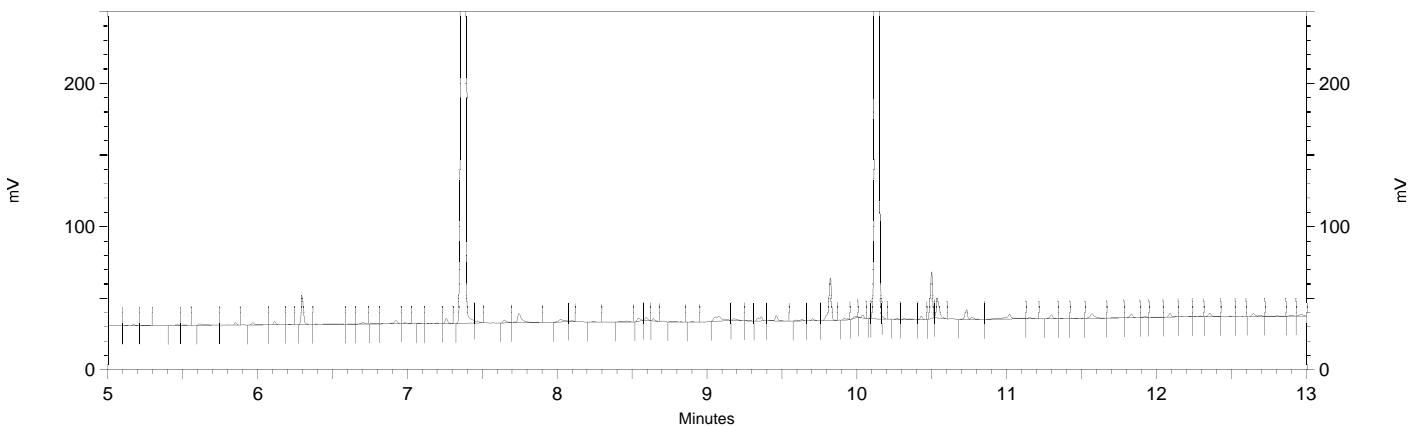
Sample Name: 306574-003,267176
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 9:56:47 AM
Analysis Date: 1/30/2019 2:22:18 PM
Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 306574-003,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 9:56:47 AM
 Analysis Date: 1/30/2019 2:16:45 PM
 Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.383	2281358	43.671
Hexacosane	10.143	1888443	44.872



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

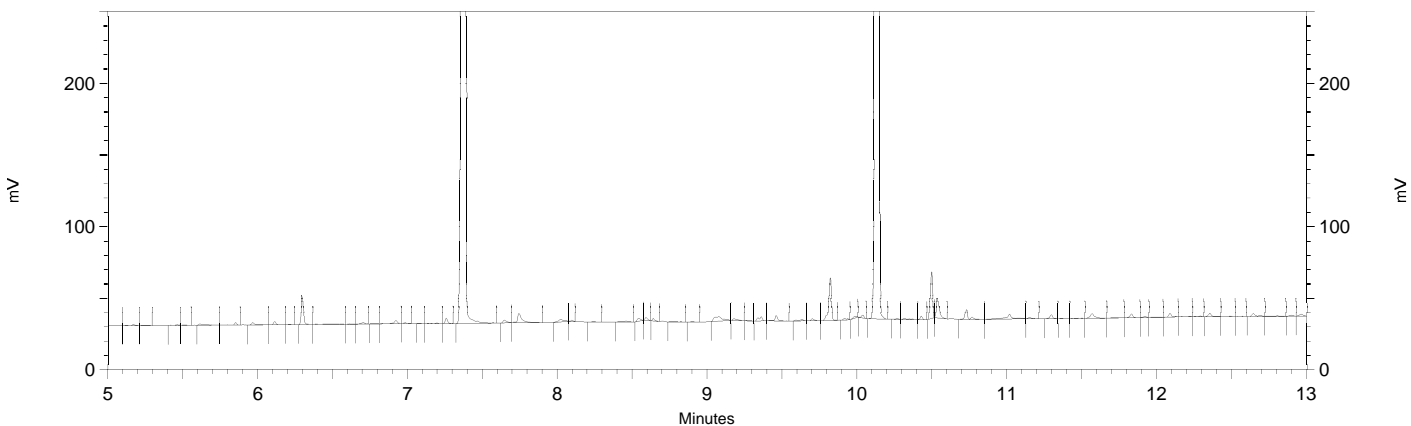
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.323	7.506	0
Yes	Split Peak	7.443	0	0
Yes	Manual Peak	10.075	10.201	0
Yes	Split Peak	10.091	0	0
Yes	Split Peak	10.166	0	0
Yes	Reassign Peak	10.174	10.16	0

Sample Name: 306574-003,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028b106.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 9:56:47 AM
 Analysis Date: 1/30/2019 2:15:59 PM
 Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.383	2287115	43.781
Hexacosane	10.143	1890295	44.916



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off     0       2     0
Yes Valley to Valley    0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b106
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC27A Lab ID : 306574-004 (S) Client ID : DUP01182019-01
 Seqnum : 979033612190.1 Matrix : Water Acct : TRC-SF (MJD)
 File : 023a190 Batch : 267176 Time : 27-JAN-2019 01:04
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

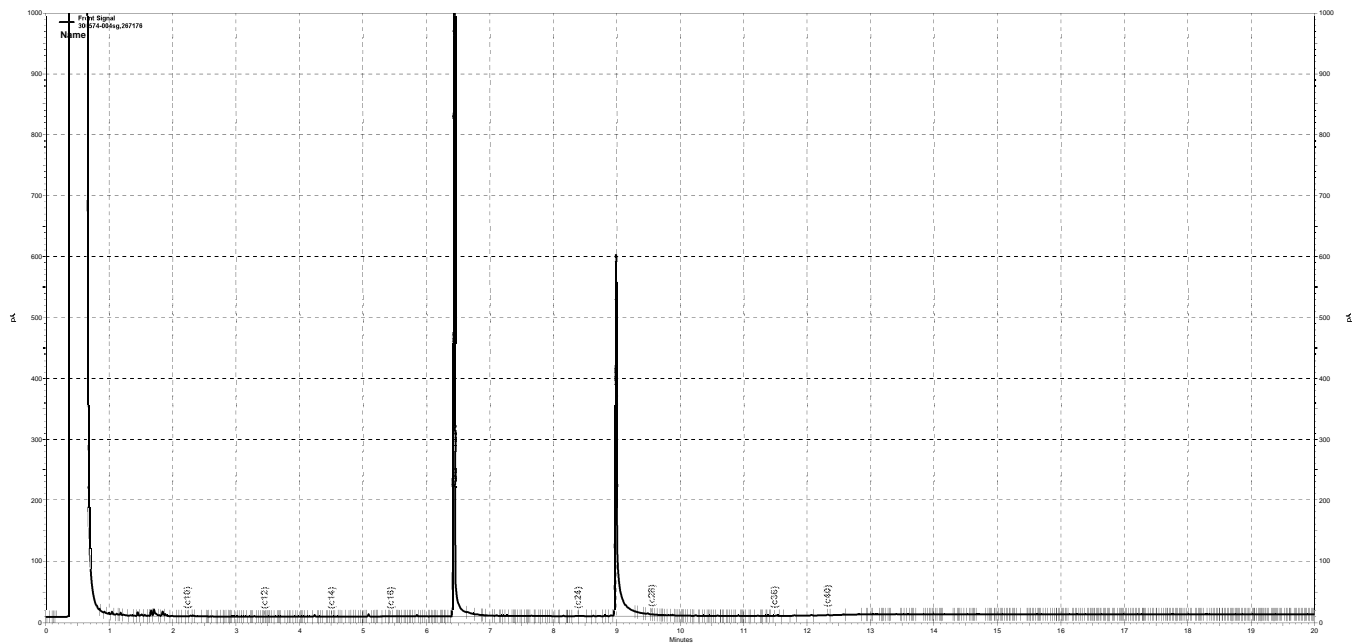
Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	979016508004	3.271	ND	50		u
Motor Oil C24-C36	979020789002	8.994	ND	300		u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	979016508005	44.88	250.0	224.4	90	68-124	u

VQ 01/27/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 01/28/19 Reviewer: EAH Date: 02/04/19

u=use



— G:\ezchrom\Projects\GC27\Data\2019\023a190.dat, Front Signal

Sample Name: 306574-004sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a190.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_021.met
 Run Date: 1/27/2019 1:04:39 AM
 Analysis Date: 1/27/2019 4:02:11 PM
 Instrument: GC27A Vial: 40 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		179623	0.379
DSL:10-14		99400	0.675
DSL:10-22		20376716	55.989
DSL:10-24		20484986	55.304
DSL:10-28		30822613	82.710
DSL:12-24		20428955	64.734
DSL:12-28		30766582	96.800
DSL:14-24		20389443	85.544
DSL:16-24		20316284	126.978
MO:22-32		10873866	46.760
MO:24-36		10822148	45.080
MO:28-40		805180	5.262
BUNKC:10-40		31353401	155.161
BUNKC:12-40		31297370	159.763
?		0	0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

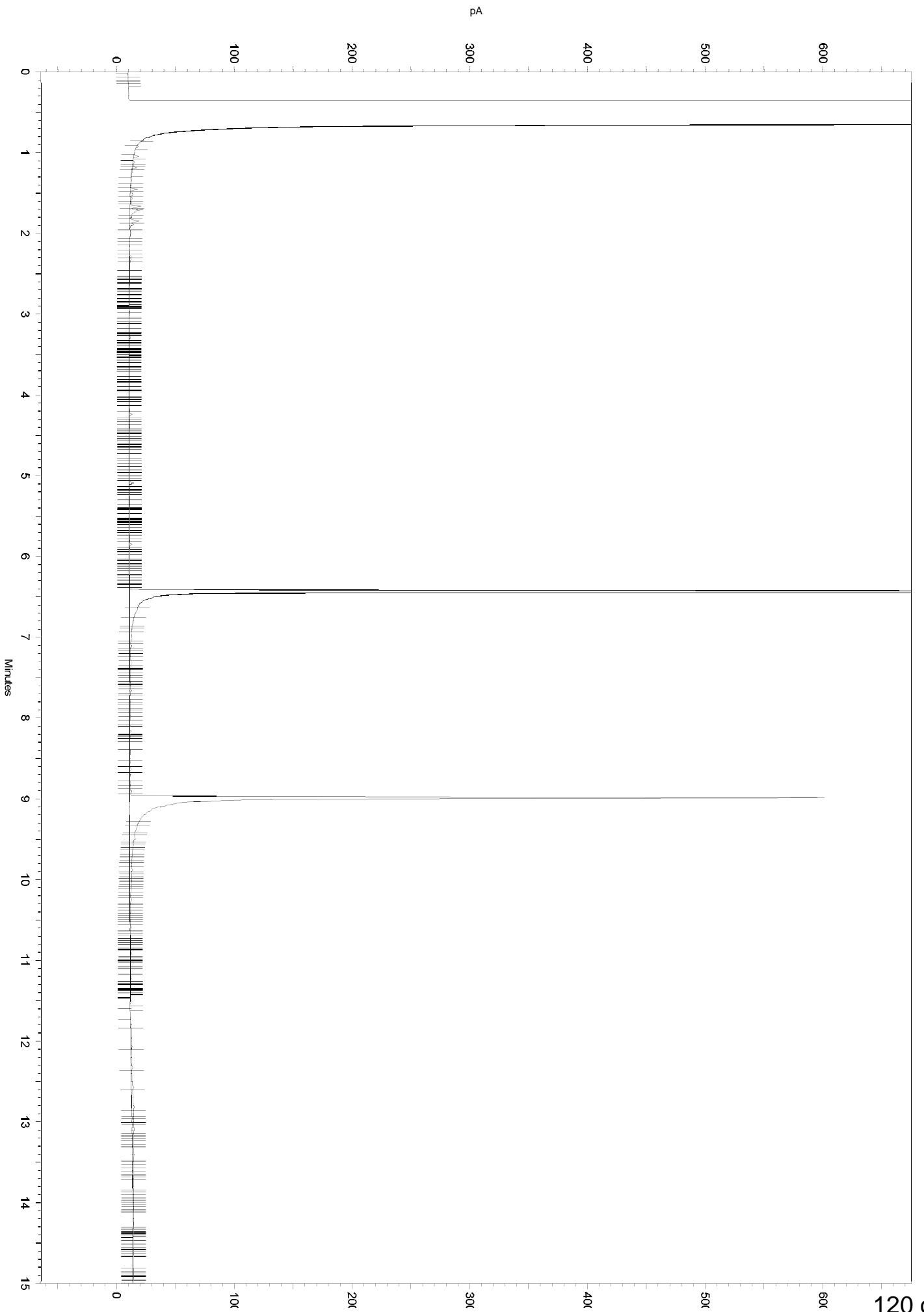
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a190.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.371	6.906	0
No	Manual Baseline	8.865	9.61	0



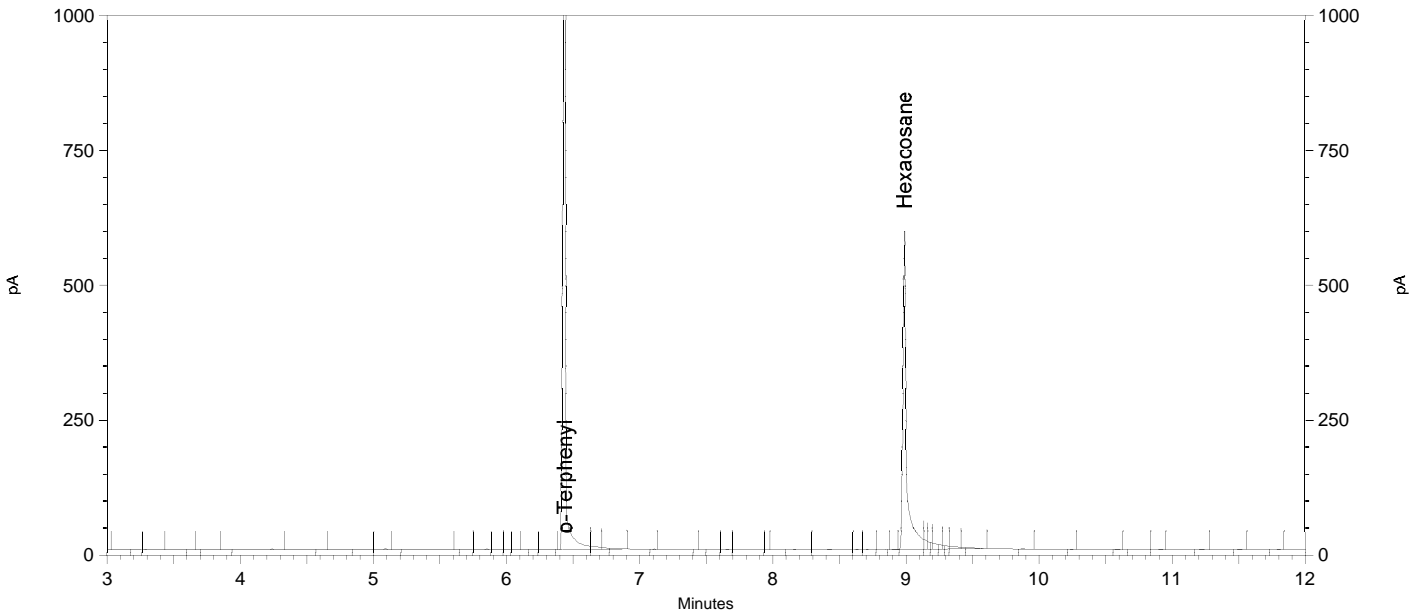
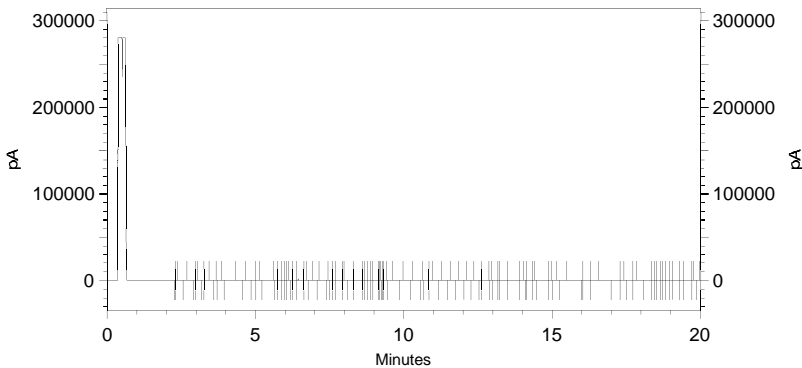
Sample Name: 306574-004sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a190.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/27/2019 1:04:39 AM
 Analysis Date: 1/27/2019 3:59:34 PM
 Instrument: GC27A Vial: 40 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.442	19273378	44.885
Hexacosane	8.988	8662970	25.076



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a190.dat

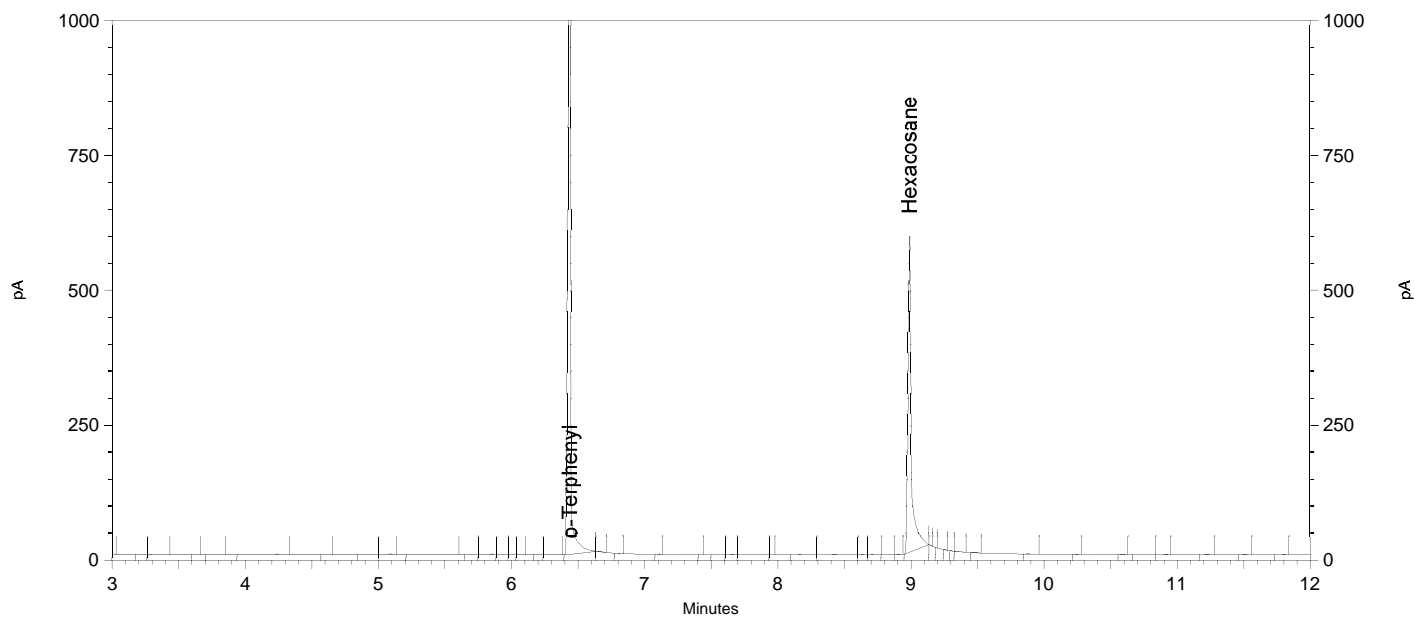
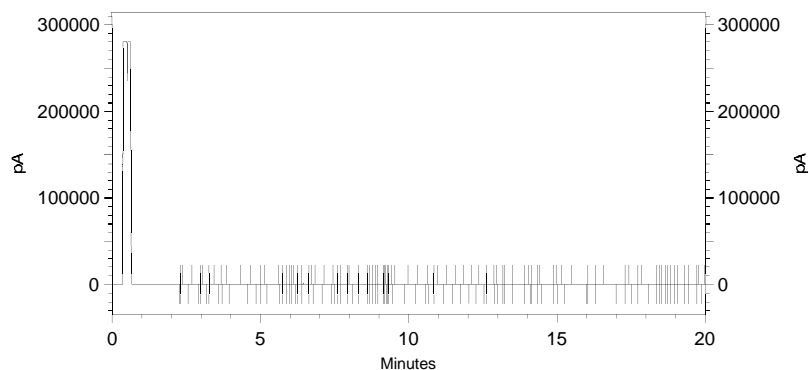
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.371	6.906	0
Yes	Manual Baseline	8.865	9.61	0

Sample Name: 306574-004sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a190.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/27/2019 1:04:39 AM
 Analysis Date: 1/27/2019 3:59:24 PM
 Instrument: GC27A Vial: 40 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.442	18967285	44.172
Hexacosane	8.988	7901175	22.871



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a190.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 306574-004 Client ID : DUP01182019-01
 Seqnum : 229050889012.1 Matrix : Water Acct : TRC-SF (MJD)
 File : 035_012 Batch : 267176 Time : 04-FEB-2019 15:02
 IDF : 1.0 Raw Units : mg/L Units : ug/L

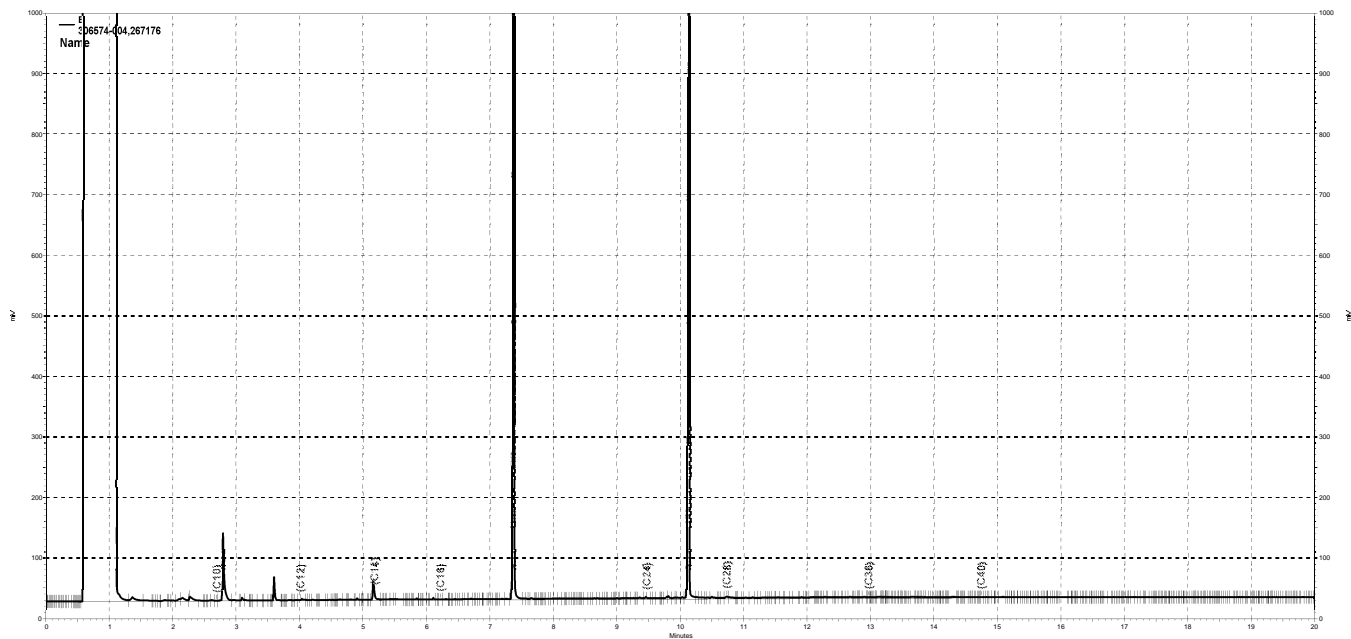
500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229036718001	21.53	110	50	18	Y u
Motor Oil C24-C36	B	229046549002	17.88	ND	300		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229046549001	52.19	250.0	261.0	104	68-124	u

Analyst: TKY Date: 02/04/19 Reviewer: EAH Date: 02/04/19

Y=does not resemble standard u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012, B

Sample Name: 306736-002sg,267446
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 3:02:20 PM
 Analysis Date: 2/4/2019 4:08:57 PM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	561624	12.510
DSL:10-14	470818	31.547
DSL:10-22	3098033	75.830
DSL:10-24	3182327	75.626
DSL:10-28	5213221	121.865
DSL:12-24	2866065	77.869
DSL:12-28	4896959	130.567
DSL:14-24	2777921	96.882
DSL:16-24	2630422	131.452
MO:22-32	2270045	84.827
MO:24-36	2339822	82.356
MO:28-40	522724	28.000
BUNKC:10-40	5707291	278.137
BUNKC:12-40	5391029	270.494

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

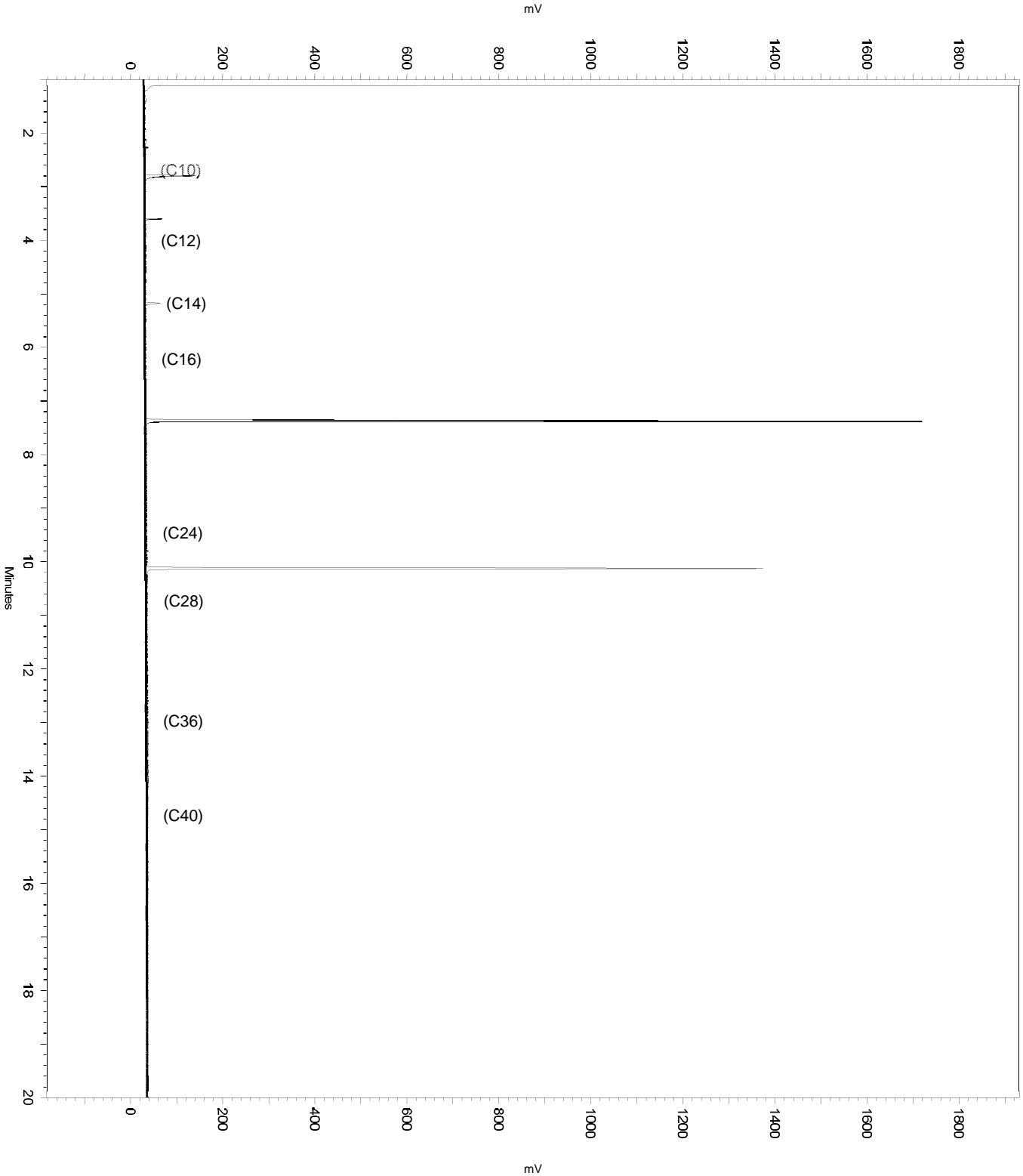
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.325	7.517	0
No	Split Peak	7.448	0	0
No	Manual Peak	10.067	10.29	0
No	Split Peak	10.206	0	0
Yes	Move BL Stop	13.863	18.388	0

Sample Name: 306736-002sg,267446
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 3:02:20 PM
Analysis Date: 2/4/2019 4:08:57 PM
Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 306574-004,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 3:02:20 PM
 Analysis Date: 2/4/2019 4:08:43 PM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	437642	9.749
DSL:10-14	392280	26.285
DSL:10-22	2814432	68.888
DSL:10-24	2846545	67.646
DSL:10-28	4763546	111.353
DSL:12-24	2560675	69.571
DSL:12-28	4477676	119.388
DSL:14-24	2514332	87.689
DSL:16-24	2412563	120.565
MO:22-32	1988729	74.314
MO:24-36	1997355	70.302
MO:28-40	102382	5.484
BUNKC:10-40	4853214	236.515
BUNKC:12-40	4567344	229.166

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

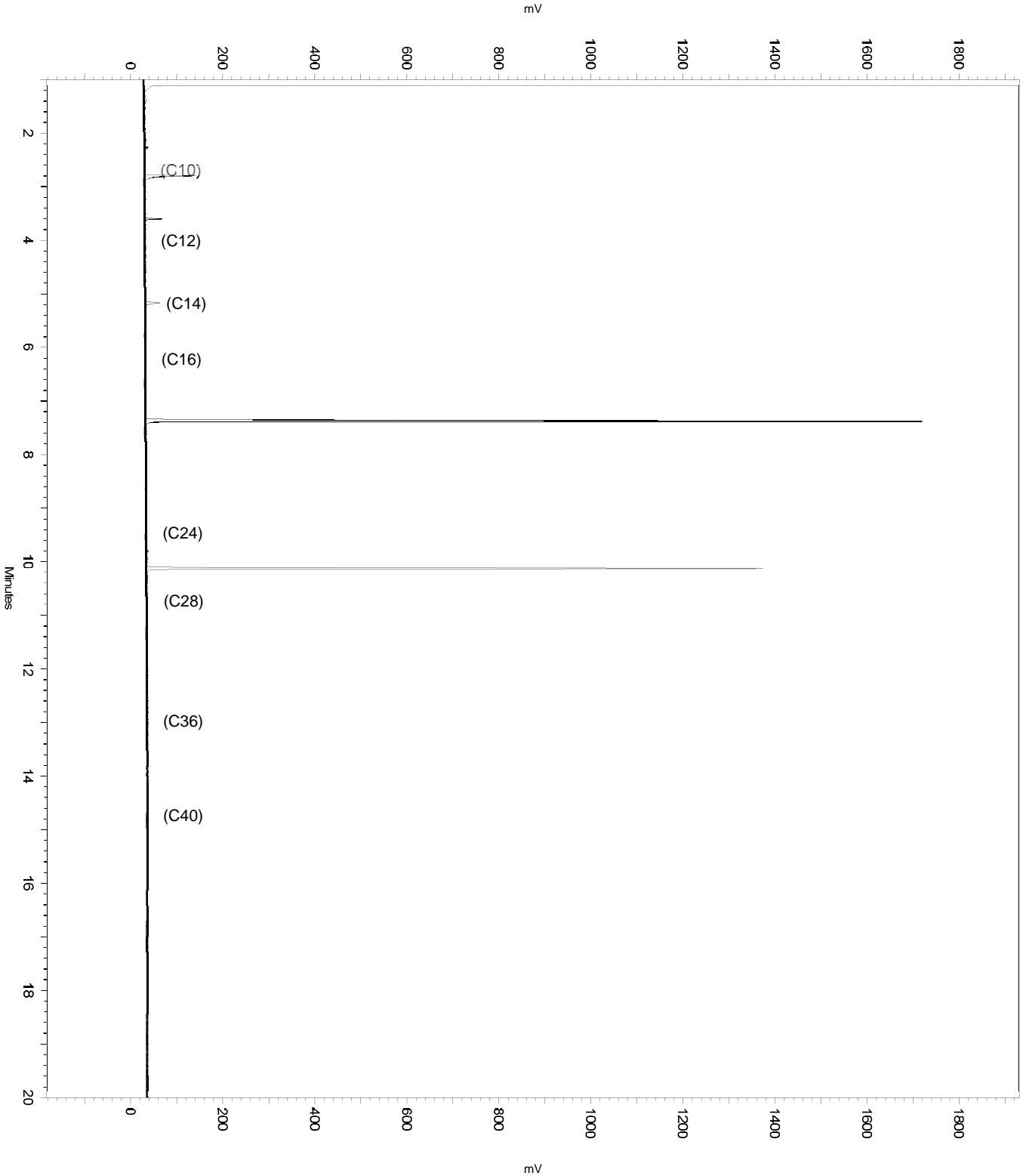
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.325	7.517	0
No	Split Peak	7.448	0	0
No	Manual Peak	10.067	10.29	0
No	Split Peak	10.206	0	0

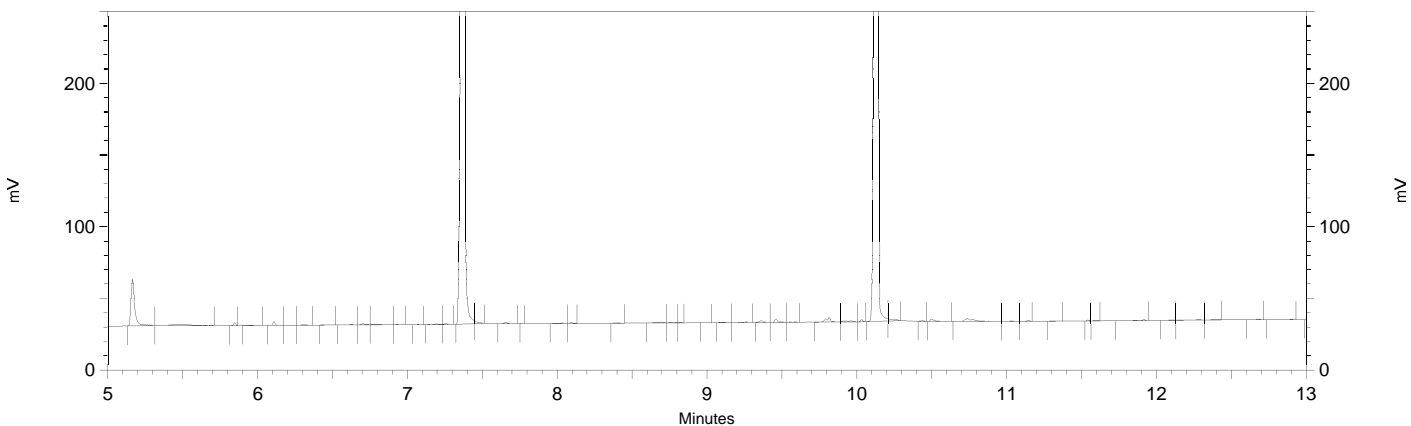
Sample Name: 306574-004,267176
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 3:02:20 PM
Analysis Date: 2/4/2019 4:08:43 PM
Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 306736-002sg,267446
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 3:02:20 PM
 Analysis Date: 2/4/2019 4:04:15 PM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.378	2276140	52.193
Hexacosane	10.137	1831926	54.810



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off      0          2     0
Yes Valley to Valley     0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

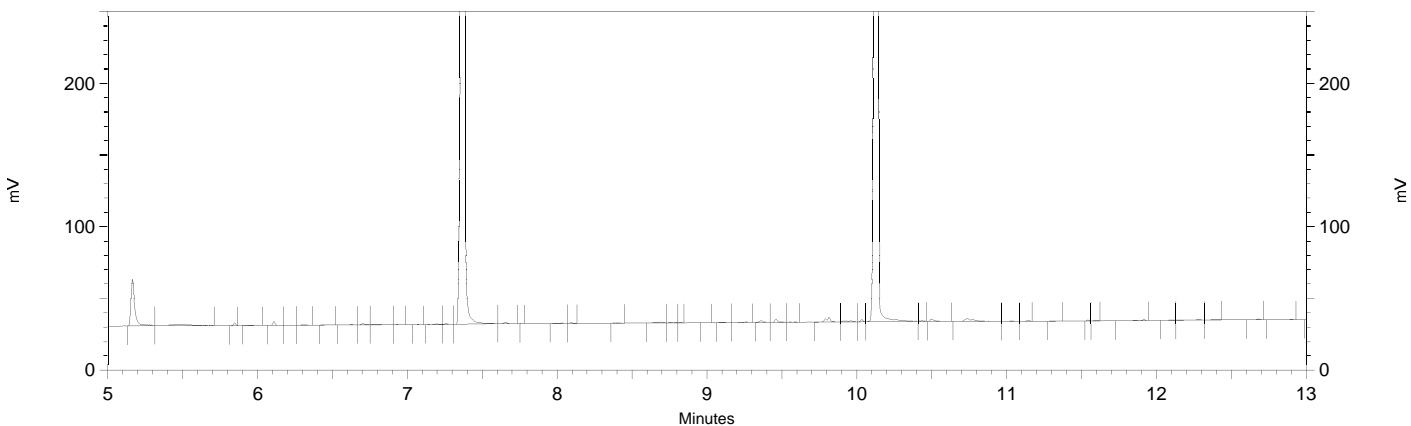
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Manual Peak         7.325     7.517    0
Yes Split Peak          7.448     0         0
Yes Manual Peak         10.067    10.29    0
Yes Split Peak          10.206    0         0
  
```

Sample Name: 306574-004,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 3:02:20 PM
 Analysis Date: 2/4/2019 4:03:36 PM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.378	2282135	52.331
Hexacosane	10.137	1841075	55.084



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0   0.2
Yes Threshold            0       0  100
Yes Integration Off      0       2    0
Yes Valley to Valley     0      20    0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b012
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

QC Raw Data

ENTHALPY BLANK USER REPORT FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A Lab ID : QC962306 (S)
 Seqnum : 979033612184.6 Matrix : Water
 File : 023a184 Batch : 267176 Time : 26-JAN-2019 22:36
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

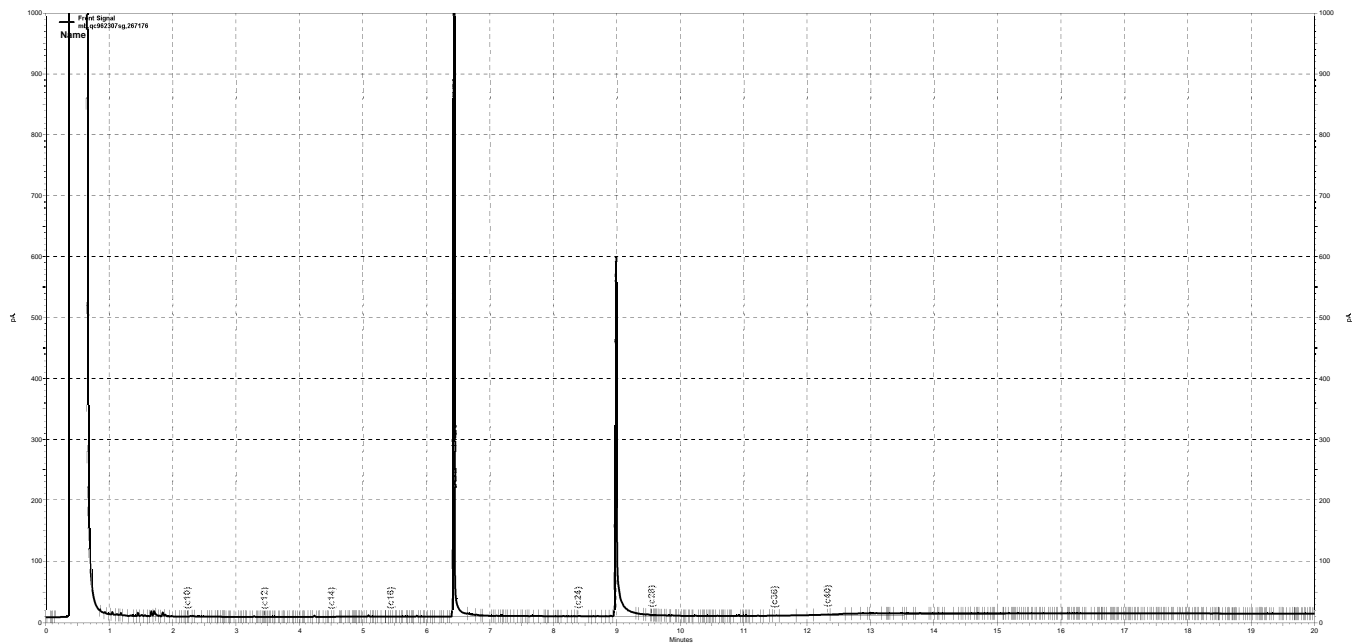
Analyte	Cal	Raw	Result	RL	Flags
Diesel C10-C24	979016508004	1.787	ND	50	u
Motor Oil C24-C36	979020789002	5.208	ND	300	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	979016508005	34.04	250.0	170.2	68	68-124	u

VQ 01/27/19 : Corrected automatically drawn baseline. [general version]

Analyst: TKY Date: 01/28/19 Reviewer: EAH Date: 02/04/19

u=use



— G:\ezchrom\Projects\GC27\Data\2019\023a184.dat, Front Signal

Sample Name: mb,qc962307sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a184.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_021.met
 Run Date: 1/26/2019 10:36:24 PM
 Analysis Date: 1/27/2019 4:01:22 PM
 Instrument: GC27A Vial: 34 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		129284	0.273
DSL:10-14		85663	0.582
DSL:10-22		15162432	41.662
DSL:10-24		15280662	41.254
DSL:10-28		24649481	66.145
DSL:12-24		15225189	48.245
DSL:12-28		24594008	77.379
DSL:14-24		15196946	63.758
DSL:16-24		15155763	94.725
MO:22-32		9818276	42.221
MO:24-36		9734029	40.548
MO:28-40		764025	4.993
BUNKC:10-40		25238663	124.900
BUNKC:12-40		25183190	128.552

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

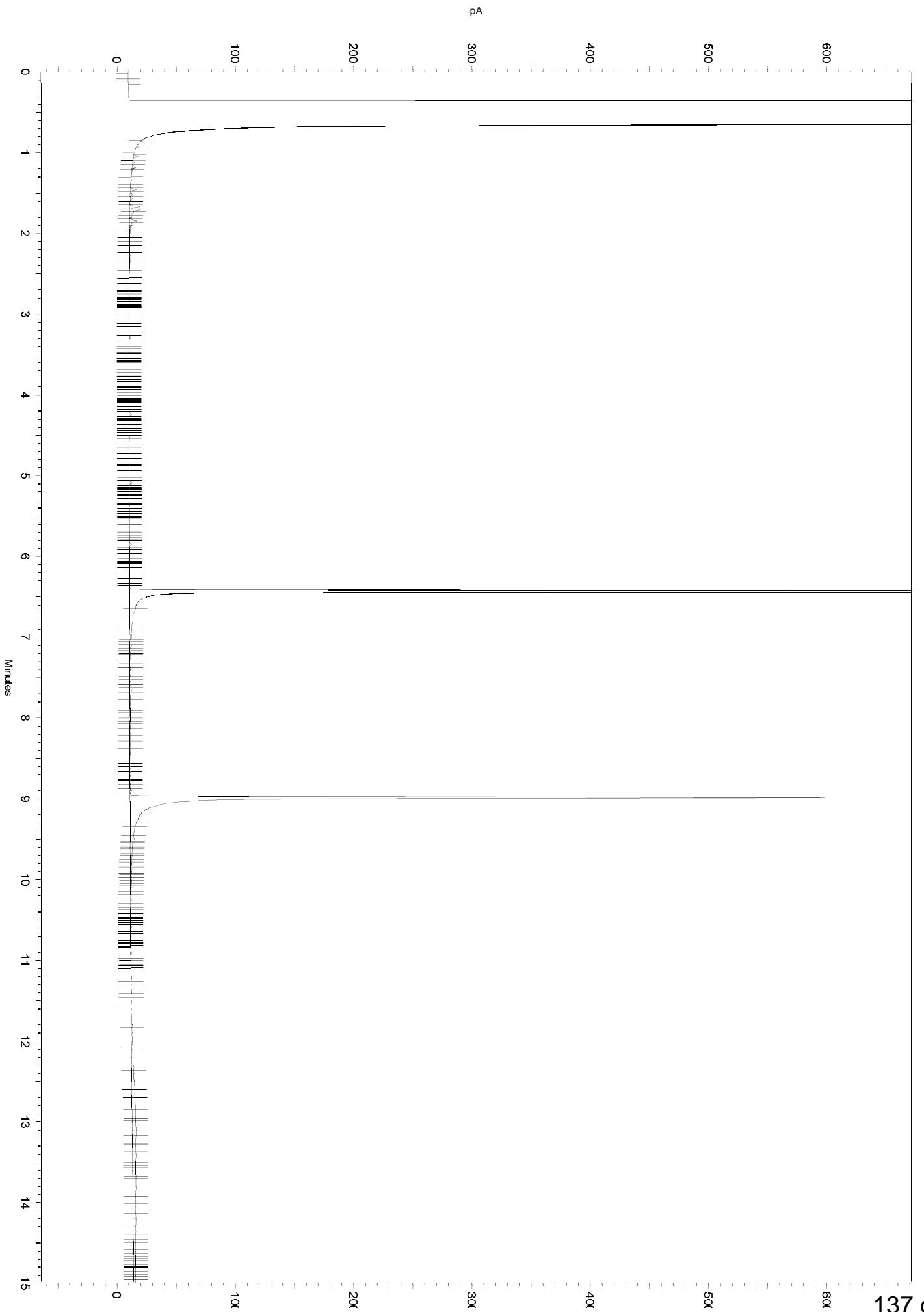
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\023a184.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      6.376  6.854   0
No Manual Baseline      8.944  9.715   0
  
```

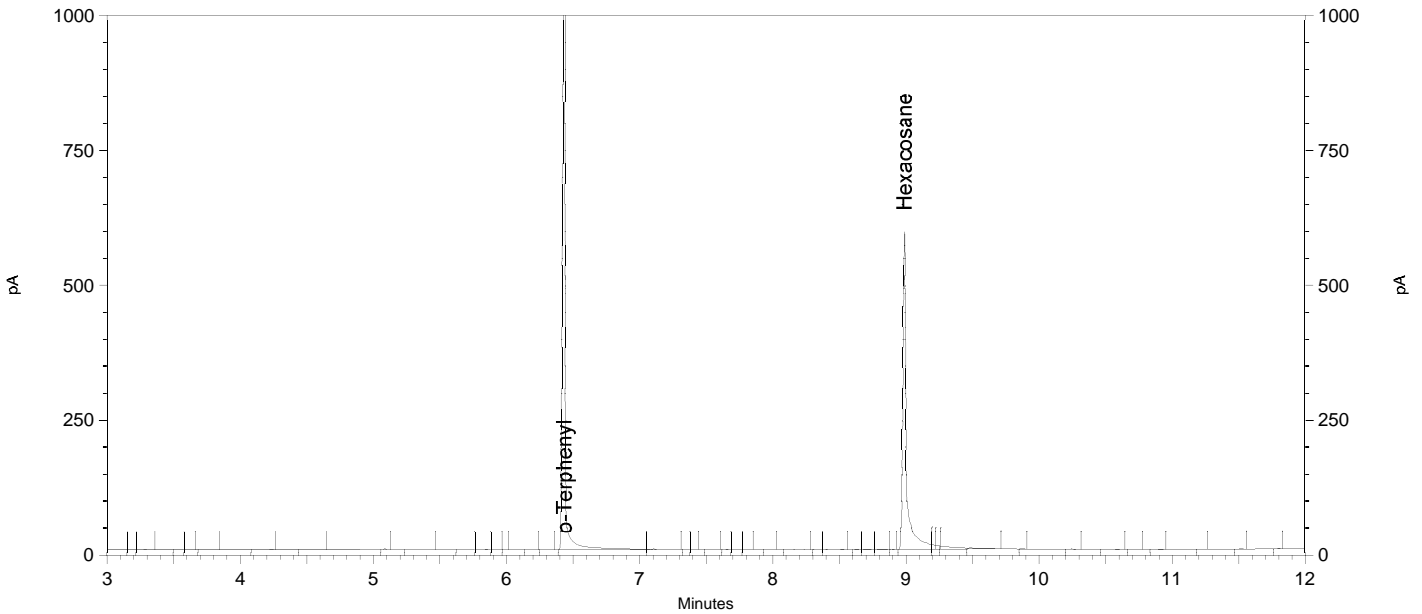
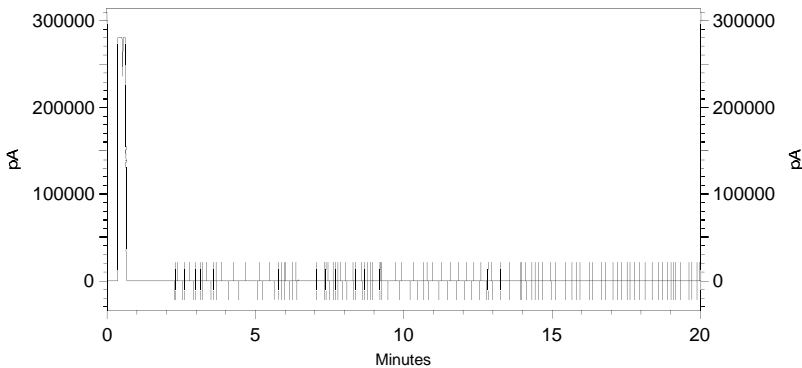


Sample Name: mb,qc962307sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a184.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/26/2019 10:36:24 PM
 Analysis Date: 1/27/2019 4:04:37 PM
 Instrument: GC27A Vial: 34 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.437	14618821	34.045
Hexacosane	8.987	8483854	24.558



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a184.dat

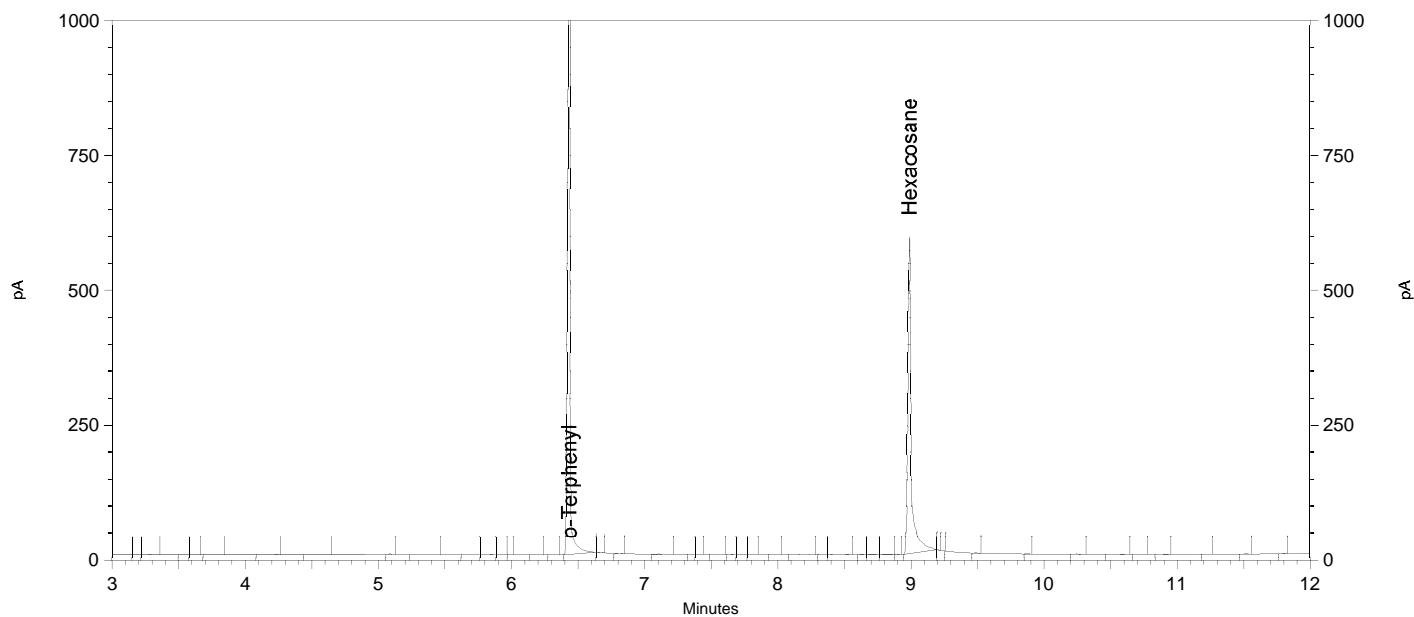
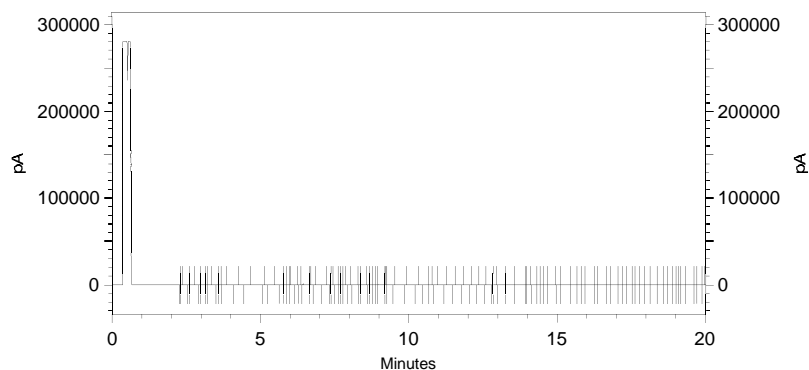
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.249	7.313	0
Yes	Disable End Peak Detection	6.561	6.812	0
Yes	Manual Baseline	8.944	9.715	0

Sample Name: mb,qc962307sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a184.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/26/2019 10:36:24 PM
 Analysis Date: 1/27/2019 3:57:12 PM
 Instrument: GC27A Vial: 34 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.437	13990113	32.581
Hexacosane	8.987	8009456	23.185



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a184.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY BLANK USER REPORT FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B Lab ID : QC962306
 Seqnum : 229040831086.2 Matrix : Water
 File : 028_086 Batch : 267176 Time : 30-JAN-2019 00:48
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

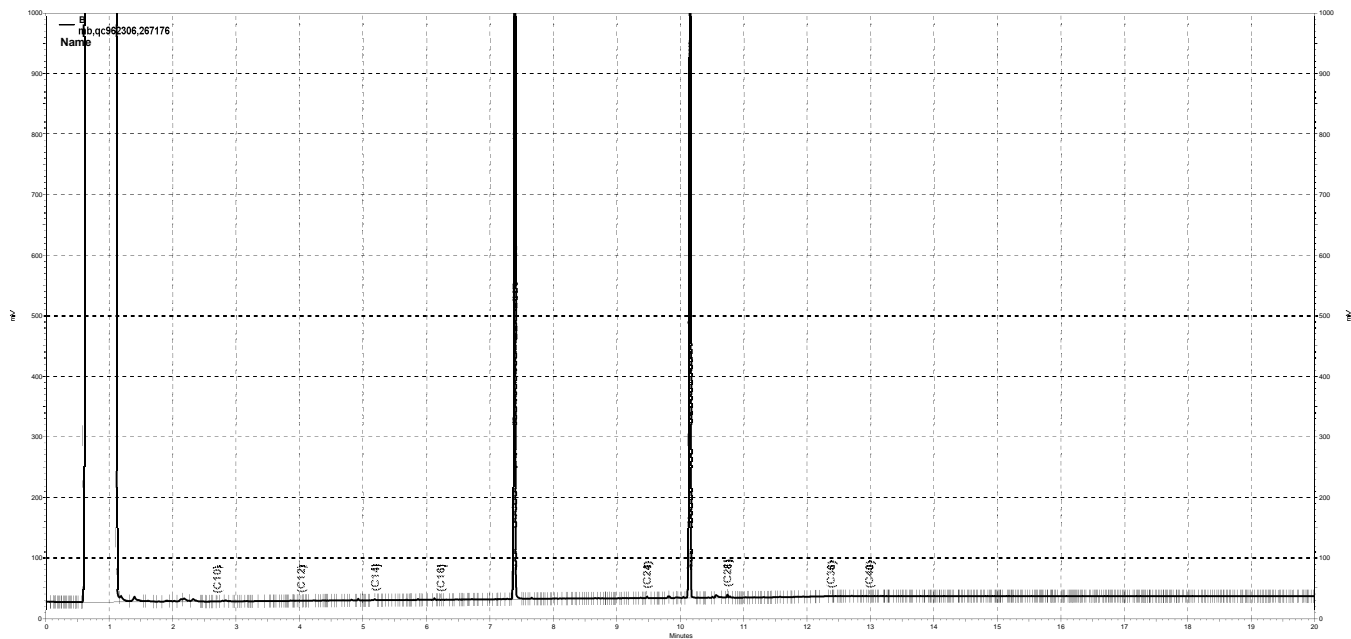
Analyte	Ch	Cal	Raw	Result	RL	Flags
Diesel C10-C24	B	229036718001	3.634	ND	50	u
Motor Oil C24-C36	B	229015071001	2.393	ND	300	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229016966001	44.92	250.0	224.6	90	68-124	u

CRC 01/30/19 : Corrected automatically drawn baseline. [general version]

Analyst: TKY Date: 02/01/19 Reviewer: EAH Date: 02/04/19

u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b086, B

Sample Name: mb,qc962306,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b086
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 12:48:02 AM
 Analysis Date: 1/30/2019 3:02:12 PM
 Instrument: GC14B Vial: 86 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	51018	1.136
DSL:10-14	41131	2.756
DSL:10-22	2477058	60.630
DSL:10-24	2499415	59.397
DSL:10-28	4586546	107.216
DSL:12-24	2479909	67.377
DSL:12-28	4567040	121.770
DSL:14-24	2462107	85.868
DSL:16-24	2448807	122.376
MO:22-32	2121886	70.406
MO:24-36	2107939	66.641
MO:28-40	33376	1.621
BUNKC:10-40	4610265	224.675
BUNKC:12-40	4590759	230.340

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

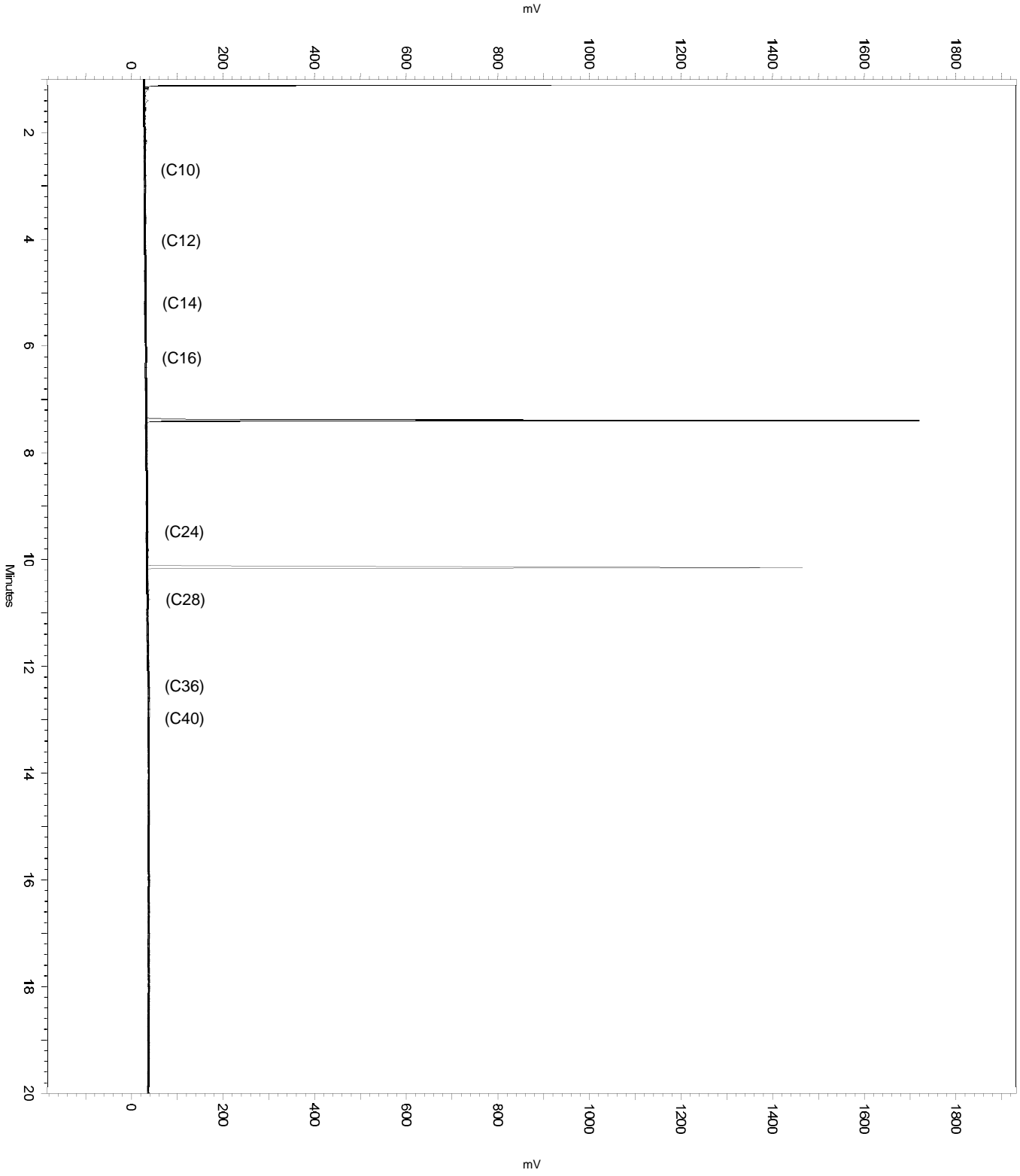
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b086

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.246	7.546	0
No	Split Peak	7.44	0	0
No	Manual Peak	10.083	10.266	0
No	Split Peak	10.2	0	0

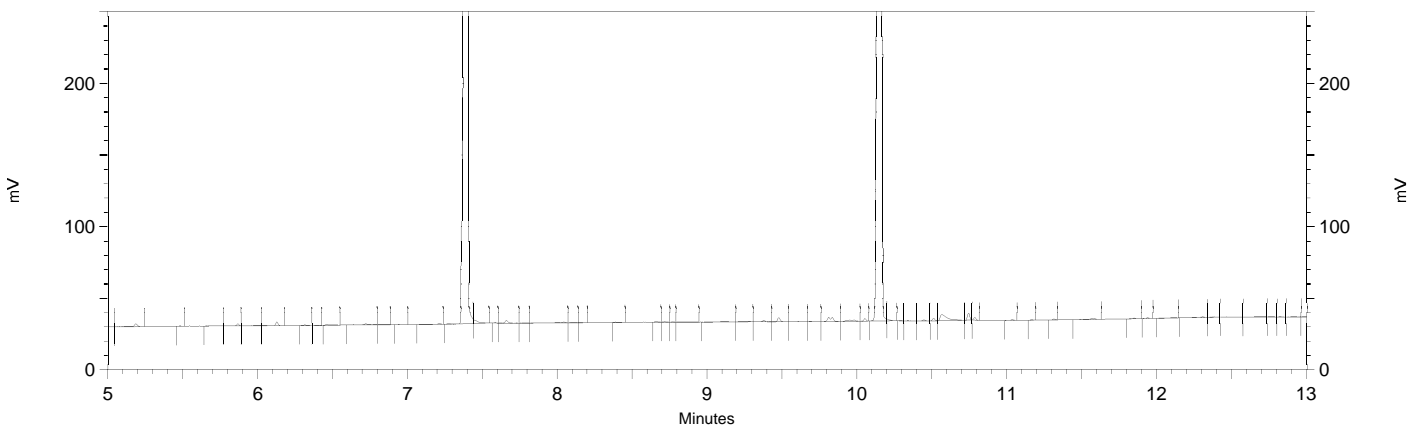
Sample Name: mb,qc962306,267176
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b086
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 12:48:02 AM
Analysis Date: 1/30/2019 3:02:12 PM
Instrument: GC14B Vial: 86 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: mb,qc962306,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b086
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 12:48:02 AM
 Analysis Date: 1/30/2019 2:15:25 PM
 Instrument: GC14B Vial: 86 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.398	2346496	44.918
Hexacosane	10.158	2032241	48.289



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

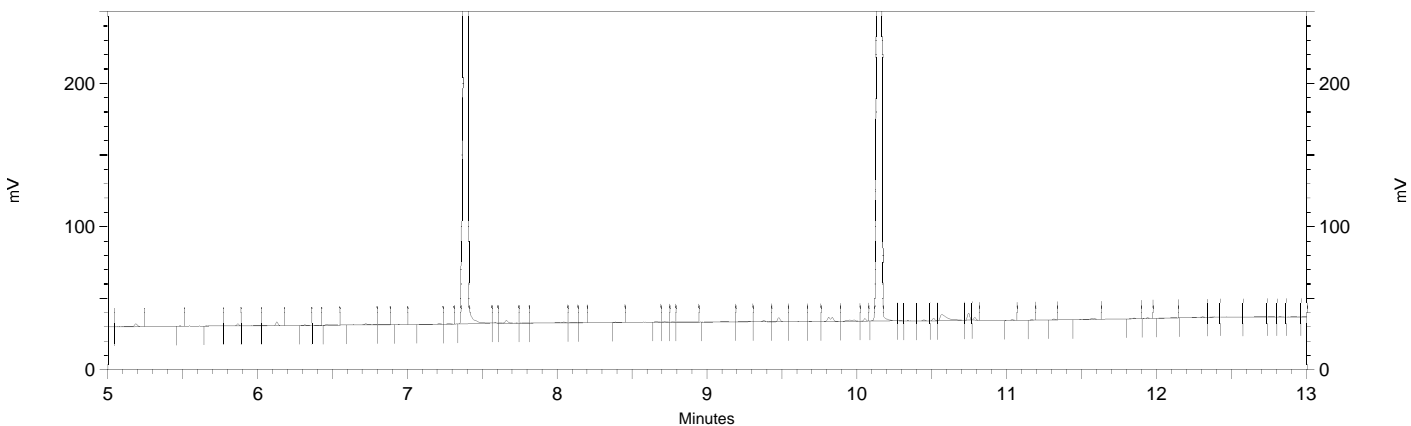
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b086

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.246	7.546	0
Yes	Split Peak	7.44	0	0
Yes	Manual Peak	10.083	10.266	0
Yes	Split Peak	10.2	0	0

Sample Name: mb,qc962306,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b086
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 12:48:02 AM
 Analysis Date: 1/30/2019 2:12:55 PM
 Instrument: GC14B Vial: 86 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.398	2352380	45.030
Hexacosane	10.158	2033862	48.327



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b086
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY SPIKE USER REPORT FOR 306574 GCSV Water
EPA 8015B

Type : LCS
 Inst : GC27A
 Seqnum : 979033612183.6
 File : 023a183
 IDF : 1.0
 Lab ID : QC962307 (S)
 Matrix : Water
 Batch : 267176
 Time : 26-JAN-2019 22:11
 Cal : 979016508004
 Cal : 979016508005
 Units : ug/L

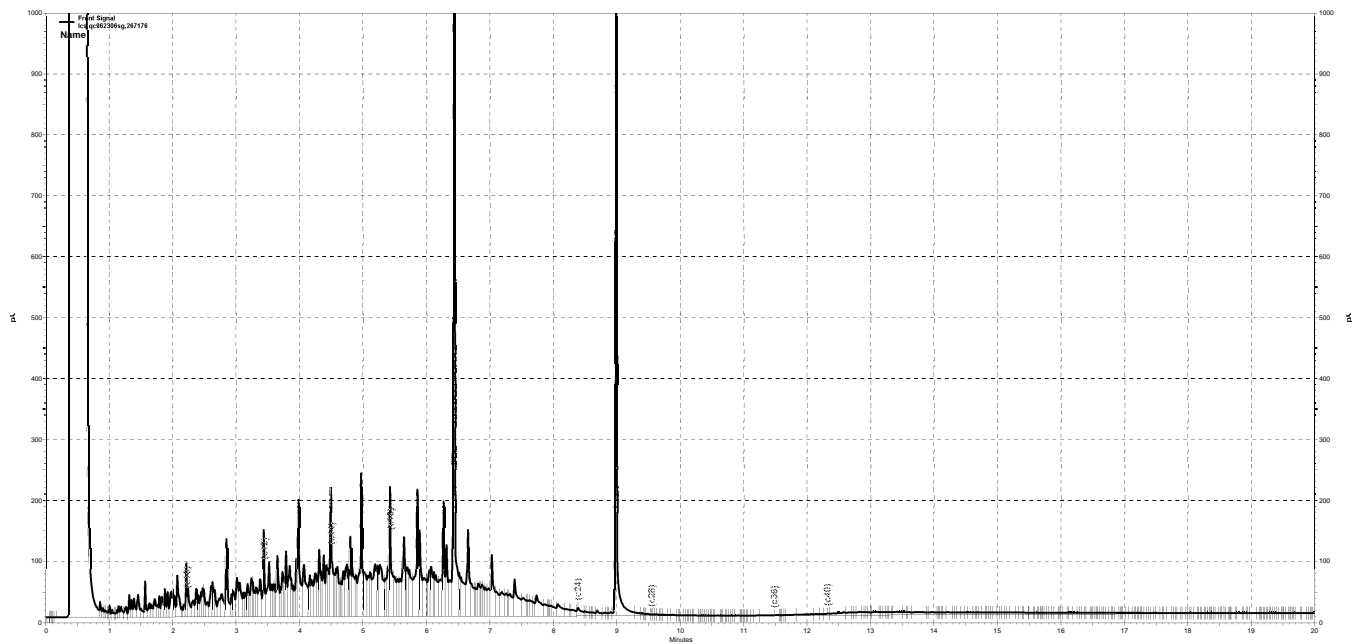
LCS: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

Analyte	Spiked	Raw	LCS	%Rec	Limits	Flags
Diesel C10-C24	2500	409.9	2050	82	64-120	u
o-Terphenyl	250.0	42.93	214.7	86	68-124	u

VQ 01/27/19 : Corrected automatically drawn baseline. [general version]

Analyst: TKY Date: 01/28/19 Reviewer: EAH Date: 02/04/19

u=use



— G:\ezchrom\Projects\GC27\Data\2019\023a183.dat, Front Signal

Sample Name: Ics,qc962306sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a183.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_021.met
 Run Date: 1/26/2019 10:11:31 PM
 Analysis Date: 1/27/2019 4:01:12 PM
 Instrument: GC27A Vial: 33 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		90071105	190.156
DSL:10-14		57580144	391.221
DSL:10-22		166518395	457.540
DSL:10-24		170277116	459.704
DSL:10-28		185187340	496.934
DSL:12-24		150429633	476.671
DSL:12-28		165339857	520.202
DSL:14-24		118672336	497.887
DSL:16-24		87158882	544.750
MO:22-32		20763398	89.288
MO:24-36		15789494	65.772
MO:28-40		1103798	7.213
BUNKC:10-40		186094118	920.937
BUNKC:12-40		166246635	848.637

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

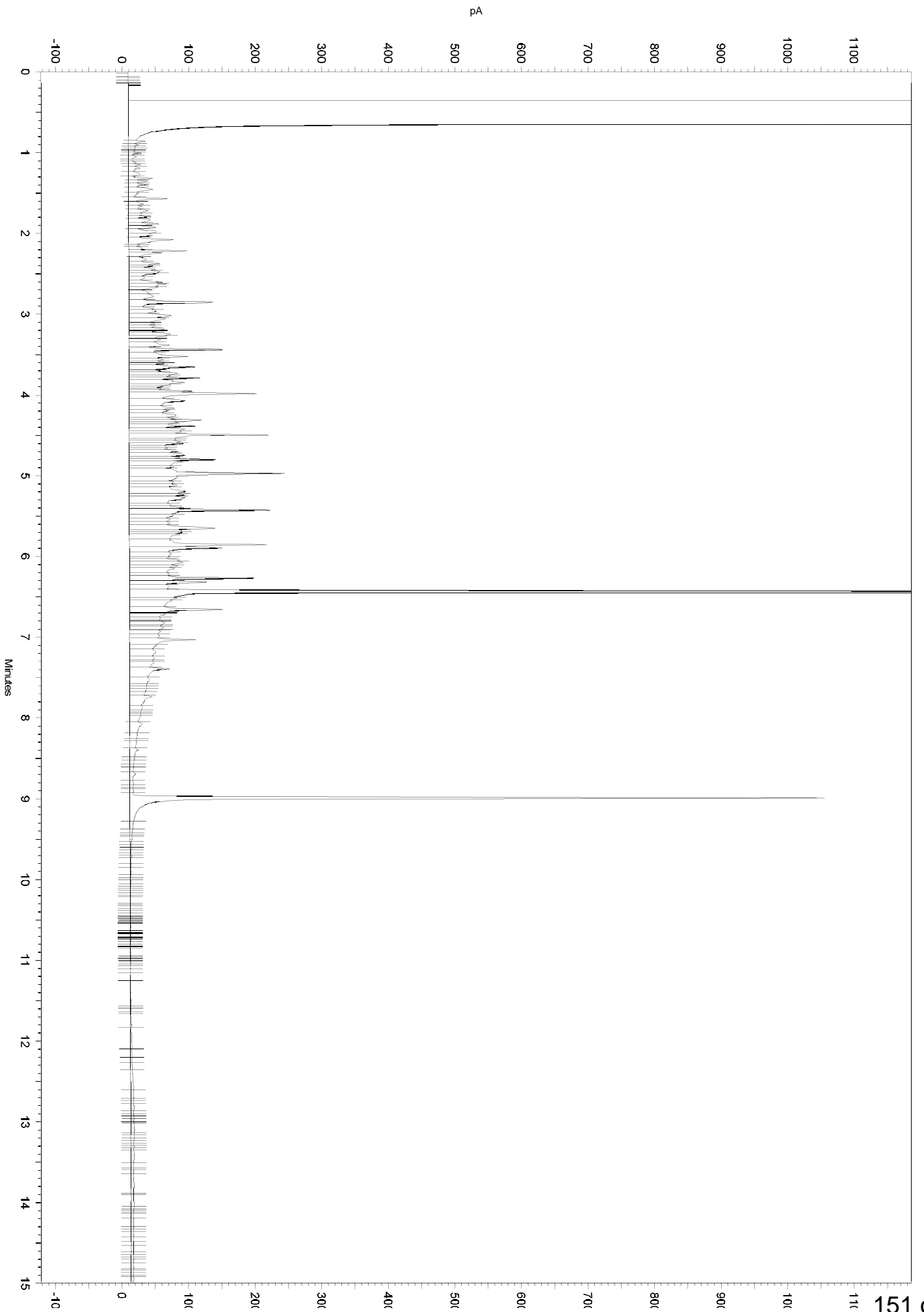
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a183.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.391	6.567	0
No	Split Peak	6.487	0	0
No	Manual Baseline	8.932	9.309	0
Yes	Move BL Start	1.03	0.062	0



Sample Name: Ics,qc962306sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a183.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_021.met
 Run Date: 1/26/2019 10:11:31 PM
 Analysis Date: 1/27/2019 4:01:01 PM
 Instrument: GC27A Vial: 33 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		83897472	177.122
DSL:10-14		52819413	358.874
DSL:10-22		157913441	433.896
DSL:10-24		161261446	435.364
DSL:10-28		175721124	471.532
DSL:12-24		143929902	456.075
DSL:12-28		158389580	498.335
DSL:14-24		114180814	479.043
DSL:16-24		84053900	525.344
MO:22-32		19677093	84.617
MO:24-36		15173351	63.205
MO:28-40		961224	6.281
BUNKC:10-40		176529476	873.604
BUNKC:12-40		159197932	812.655

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

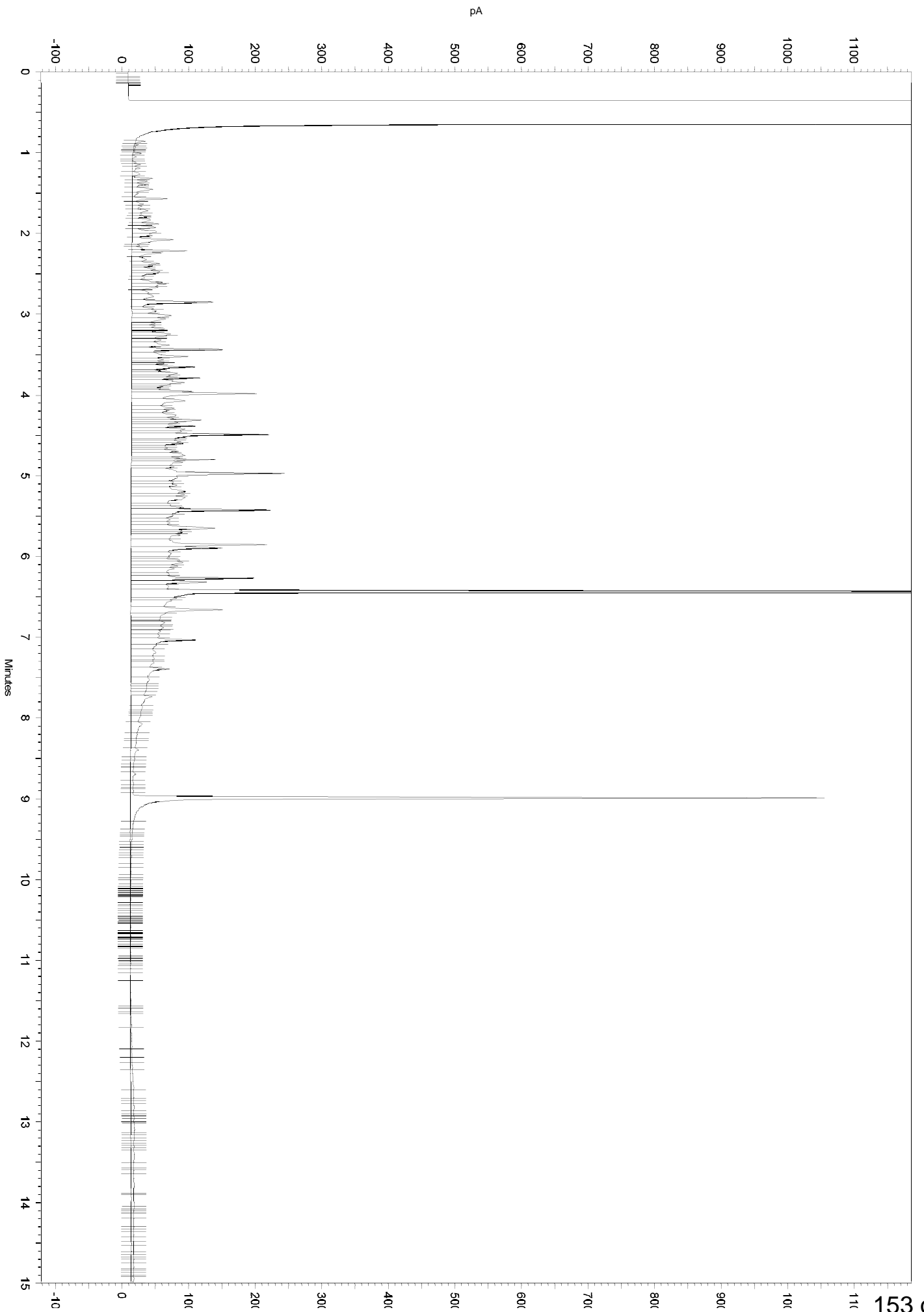
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold            0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\023a183.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      6.391     6.567     0
No Split Peak           6.487     0         0
No Manual Baseline      8.932     9.309     0
  
```



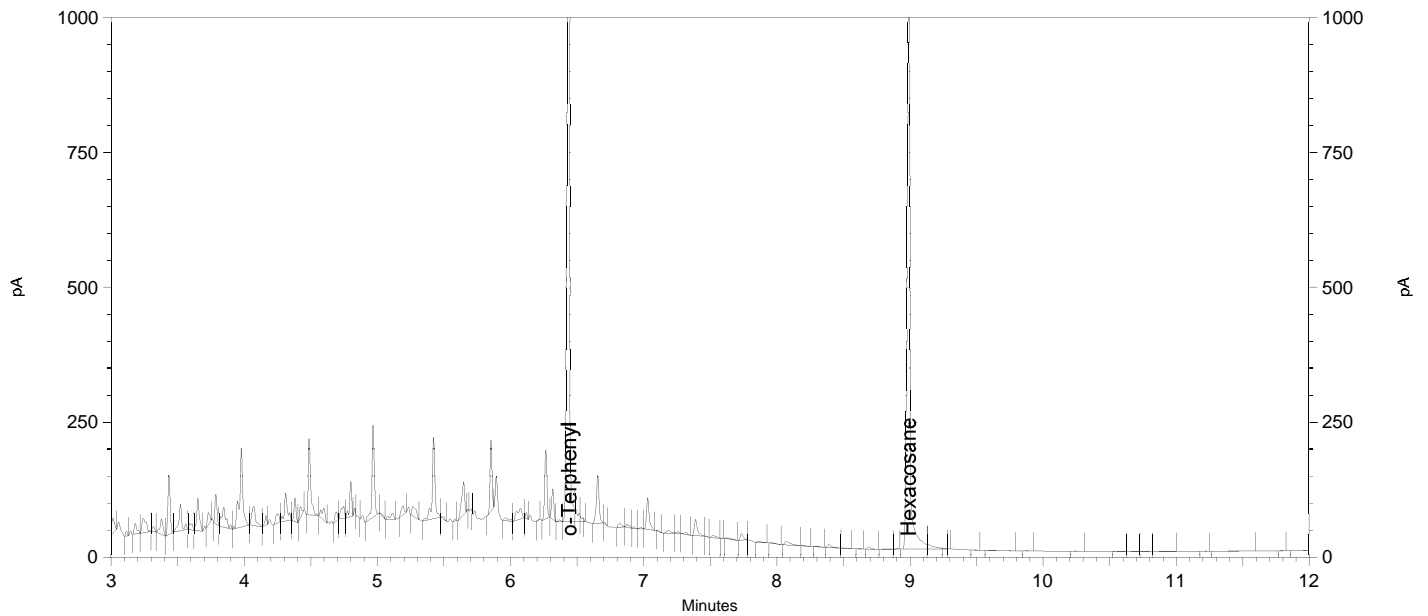
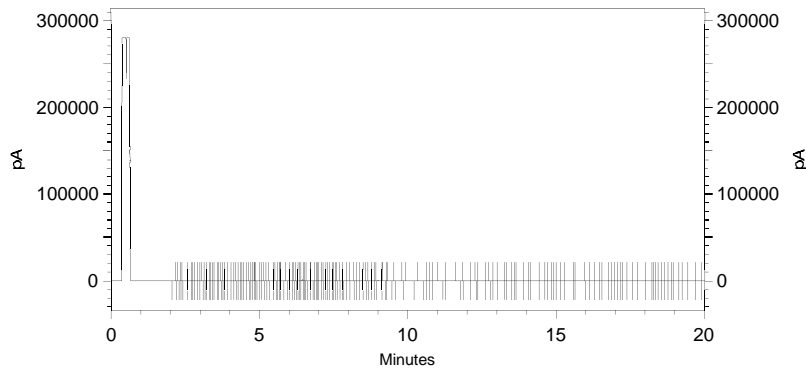
Sample Name: Ics,qc962306sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a183.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/26/2019 10:11:31 PM
 Analysis Date: 1/27/2019 3:57:05 PM
 Instrument: GC27A Vial: 33 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.442	18434707	42.932
Hexacosane	8.992	12230915	35.404



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a183.dat

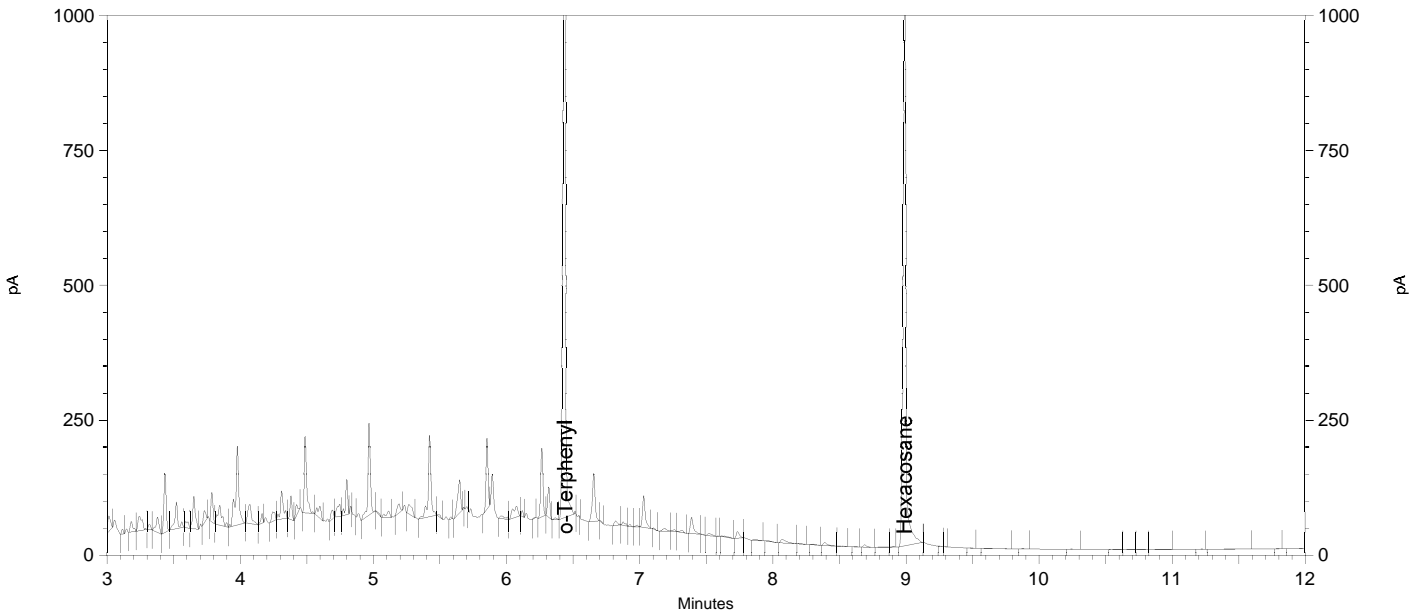
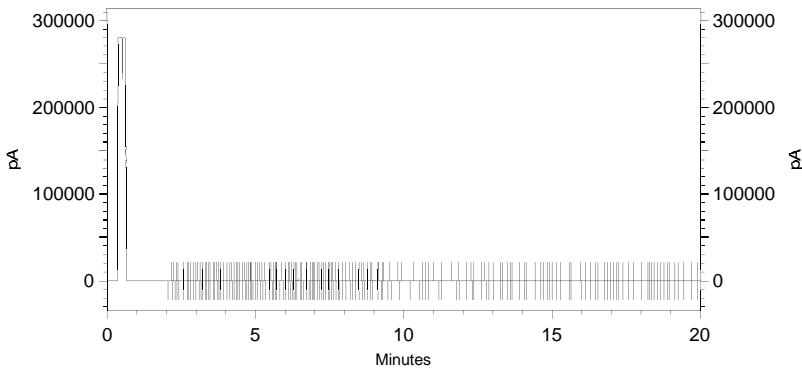
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.391	6.567	0
Yes	Split Peak	6.487	0	0
Yes	Manual Baseline	8.932	9.309	0

Sample Name: lcs,qc962306sg,267176
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a183.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/26/2019 10:11:31 PM
 Analysis Date: 1/27/2019 3:56:45 PM
 Instrument: GC27A Vial: 33 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.442	18369111	42.779
Hexacosane	8.992	11856573	34.321



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a183.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SPIKE USER REPORT FOR 306574 GCSV Water
EPA 8015B

Type : LCS
 Inst : GC14B
 Seqnum : 229040831087.2
 File : 028_087
 IDF : 1.0
 Lab ID : QC962307
 Matrix : Water
 Batch : 267176
 Time : 30-JAN-2019 01:15
 Cal : 229016966001
 Cal : 229036718001
 Units : ug/L

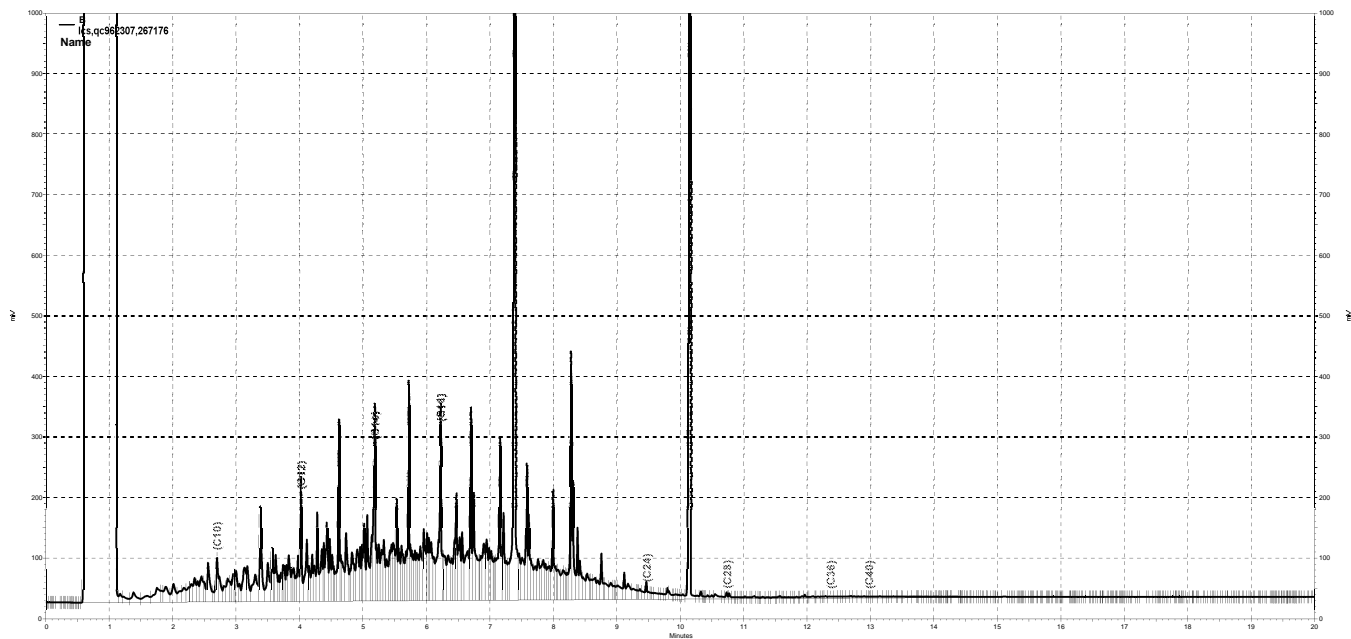
LCS: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

Analyte	Spiked	Raw	LCS	Ch	%Rec	Limits	Flags
Diesel C10-C24	2500	623.9	3119	B	125*	64-120	u
o-Terphenyl	250.0	62.08	310.4	B	124	68-124	u

CRC 01/30/19 : Corrected automatically drawn baseline. [general version]

Analyst: TKY Date: 02/01/19 Reviewer: EAH Date: 02/04/19

u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b087, B

Sample Name: Ics,qc962307,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b087
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 1:15:13 AM
 Analysis Date: 1/30/2019 3:03:02 PM
 Instrument: GC14B Vial: 87 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	14809891	329.897
DSL:10-14	9382459	628.677
DSL:10-22	28735528	703.354
DSL:10-24	29494884	700.928
DSL:10-28	32728700	765.070
DSL:12-24	26200232	711.838
DSL:12-28	29434048	784.796
DSL:14-24	21224296	740.212
DSL:16-24	15734320	786.304
MO:22-32	4503276	149.423
MO:24-36	3707256	117.202
MO:28-40	561759	27.277
BUNKC:10-40	33253442	1620.564
BUNKC:12-40	29958790	1503.176

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

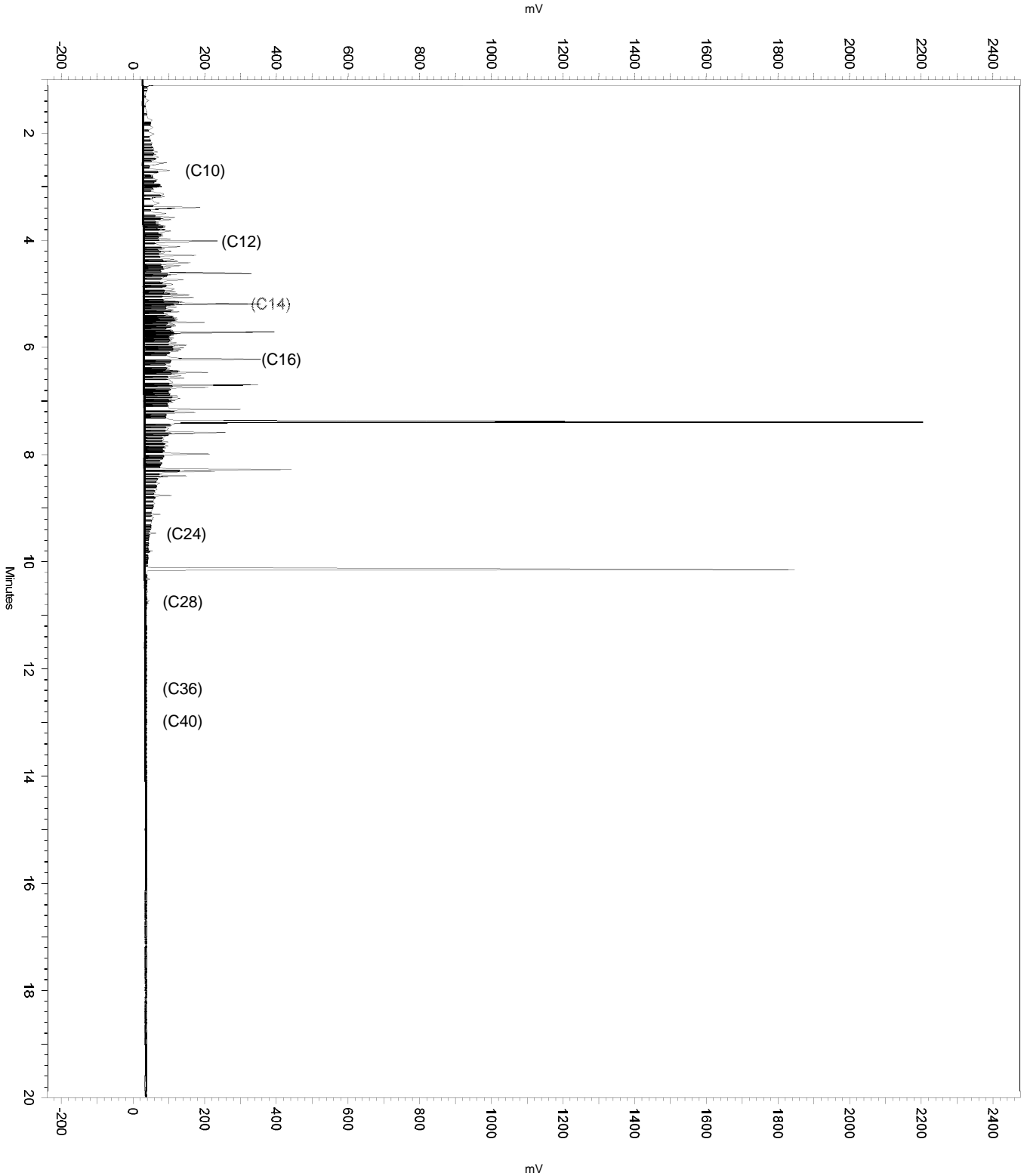
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b087

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.305	7.487	0
No	Split Peak	7.328	0	0
No	Split Peak	7.417	0	0
No	Manual Peak	10.076	10.249	0
No	Split Peak	10.204	0	0
Yes	Move BL Stop	11.417	16.154	0

Sample Name: Ics,qc962307,267176
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b087
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 1:15:13 AM
Analysis Date: 1/30/2019 3:03:02 PM
Instrument: GC14B Vial: 87 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: Ics,qc962307,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b087
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 1:15:13 AM
 Analysis Date: 1/30/2019 3:02:29 PM
 Instrument: GC14B Vial: 87 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	14651759	326.374
DSL:10-14	9284247	622.096
DSL:10-22	28380280	694.658
DSL:10-24	29075868	690.970
DSL:10-28	32176268	752.157
DSL:12-24	25820868	701.531
DSL:12-28	28921268	771.124
DSL:14-24	20895452	728.743
DSL:16-24	15462364	772.713
MO:22-32	4163126	138.137
MO:24-36	3269750	103.370
MO:28-40	99037	4.809
BUNKC:10-40	32250764	1571.699
BUNKC:12-40	28995764	1454.856

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

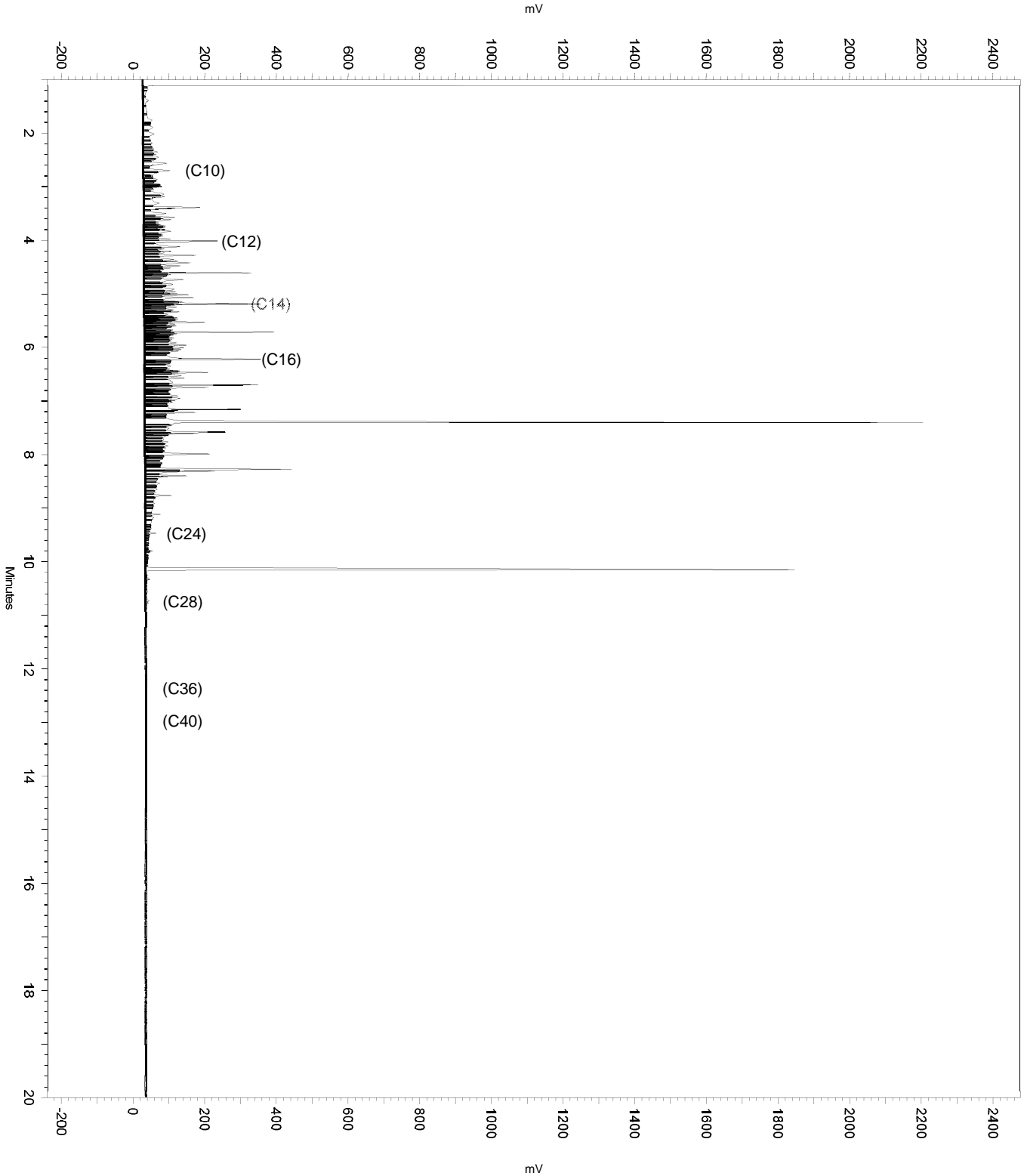
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b087

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.305	7.487	0
No	Split Peak	7.328	0	0
No	Split Peak	7.417	0	0
No	Manual Peak	10.076	10.249	0
No	Split Peak	10.204	0	0
No	Move BL Stop	11.417	16.606	0

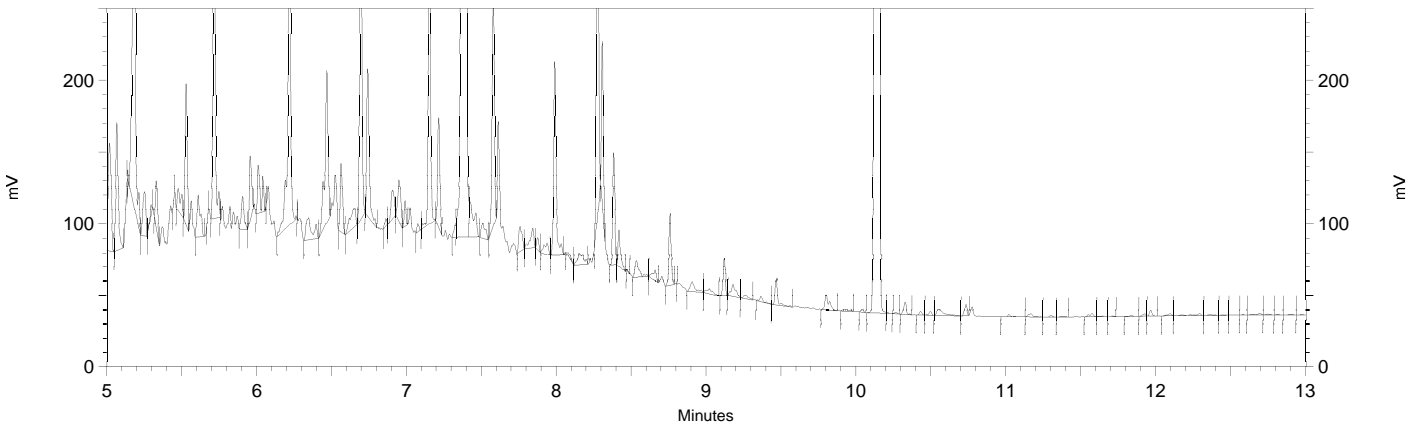
Sample Name: Ics,qc962307,267176
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b087
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 1:15:13 AM
Analysis Date: 1/30/2019 3:02:29 PM
Instrument: GC14B Vial: 87 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: Ics,qc962307,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b087
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 1:15:13 AM
 Analysis Date: 1/30/2019 3:01:50 PM
 Instrument: GC14B Vial: 87 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.398	3243166	62.082
Hexacosane	10.155	2728557	64.834



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

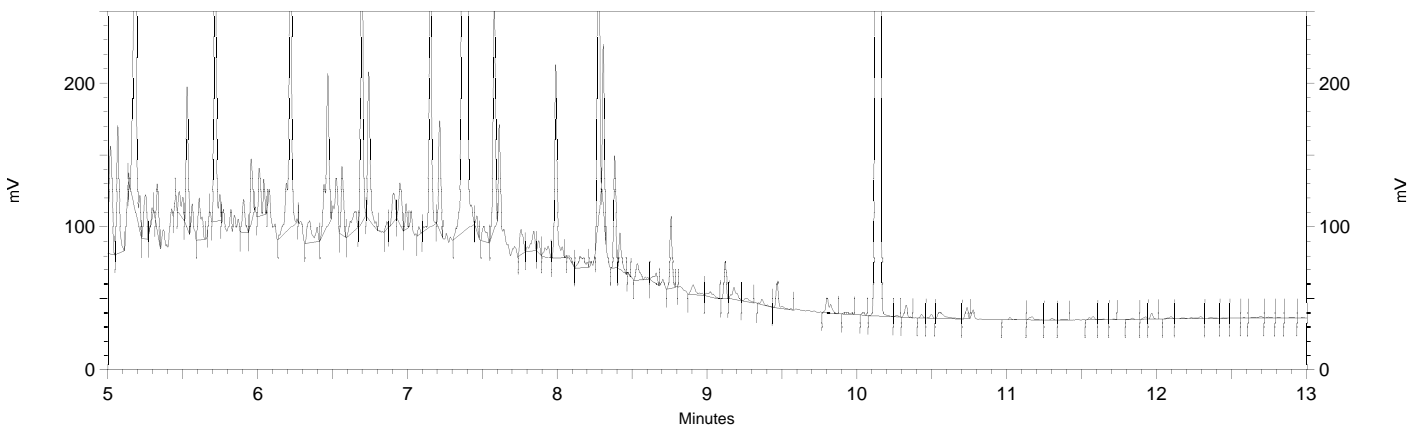
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b087

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.305	7.487	0
Yes	Split Peak	7.328	0	0
Yes	Split Peak	7.417	0	0
Yes	Manual Peak	10.076	10.249	0
Yes	Split Peak	10.204	0	0
No	Move BL Stop	11.417	16.606	0

Sample Name: Ics,qc962307,267176
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b087
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 1:15:13 AM
 Analysis Date: 1/30/2019 3:01:11 PM
 Instrument: GC14B Vial: 87 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.398	3236386	61.952
Hexacosane	10.155	2729629	64.859



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b087

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.305	7.487	0
No	Split Peak	7.328	0	0
No	Split Peak	7.446	0	0
No	Manual Peak	10.076	10.249	0
No	Split Peak	10.204	0	0
No	Move BL Stop	11.417	16.606	0

Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229015071001
 Units : mg/L

Name : MO_010
 Date : 10-JAN-2019 11:39
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	010_002	229015071002	MO_50	10-JAN-2019 11:39	S38928
L2	010_003	229015071003	MO_250	10-JAN-2019 12:06	S38929
L3	010_004	229015071004	MO_500	10-JAN-2019 12:33	S38930
L4	010_005	229015071005	MO_1000	10-JAN-2019 13:00	S38931
L5	010_006	229015071006	MO_2500	10-JAN-2019 13:27	S38765 (2X)
L6	010_007	229015071007	MO_5000	10-JAN-2019 13:54	S38765

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	31869	31020	31949	31240	32204	31506	AVRG		3.16E-5		31631	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	1	250.00	-2	500.00	1	1000.0	-1	2500.0	2	5000.0	0

TKY 01/10/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY

Date: 01/10/19

Reviewer: EAH

Date: 01/10/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 229015071001

Name : MO_010
Cal Date : 10-JAN-2019

ICV 229015071009 (010_009 10-JAN-2019) stds: S38548

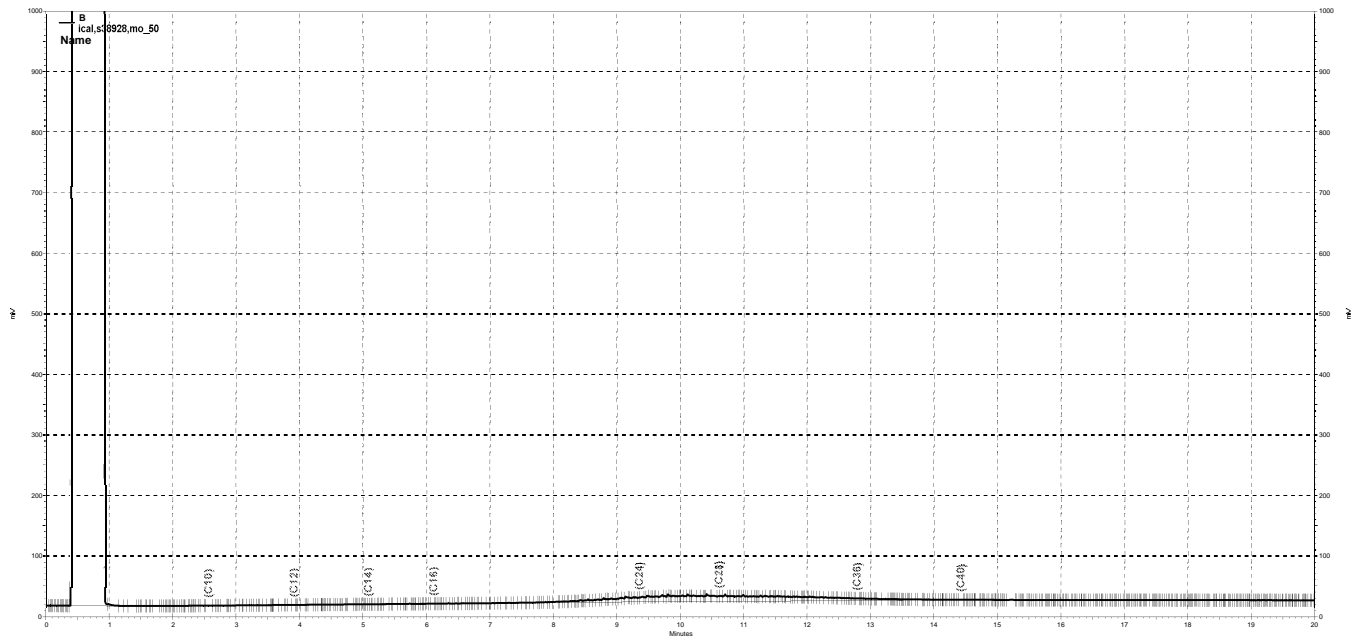
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	B	500.0	474.9	mg/L	-5	15	

Analyst: TKY

Date: 01/10/19

Reviewer: EAH

Date: 01/10/19



— \\kraken\drive\ezchrom\Projects\GC14B\Data\2019\010b002, B

Sample Name: ical,s38928,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b002
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 11:39:01 AM
 Analysis Date: 1/10/2019 6:19:22 PM
 Instrument: GC14B Vial: 2 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	22035	0.000 CAL
DSL:10-14	13661	0.000 CAL
DSL:10-22	136798	0.000 CAL
DSL:10-24	391308	0.000 CAL
DSL:10-28	1061790	0.000 CAL
DSL:12-24	386676	0.000 CAL
DSL:12-28	1057158	0.000 CAL
DSL:14-24	378843	0.000 CAL
DSL:16-24	370123	0.000 CAL
MO:22-32	1469671	50.000 CAL
MO:24-36	1593464	50.000 CAL
MO:28-40	1097563	50.000 CAL
BUNKC:10-40	2070193	0.000 CAL
BUNKC:12-40	2065561	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

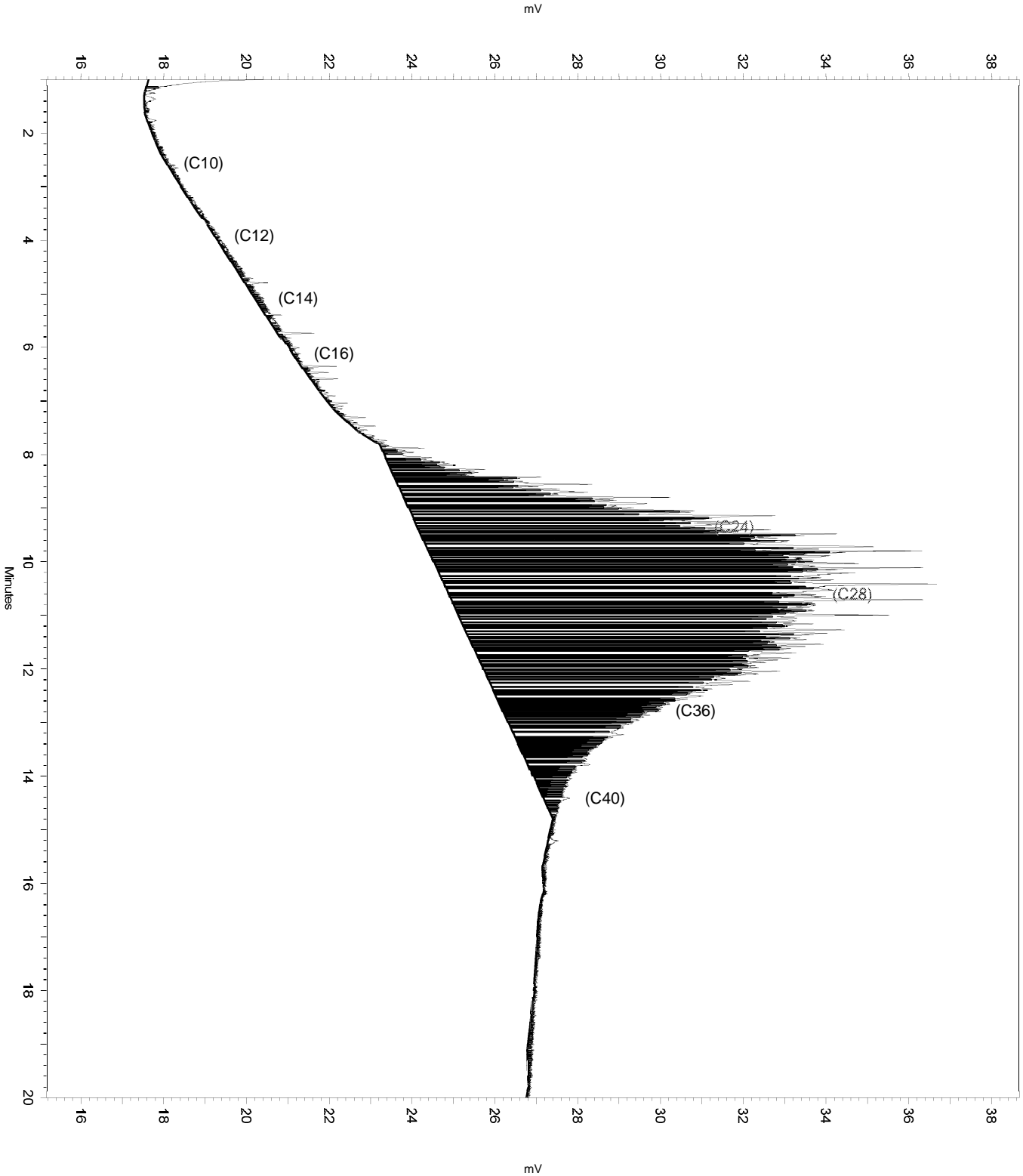
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	11.473	14.836	0

Sample Name: ical,s38928,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b002
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 11:39:01 AM
Analysis Date: 1/10/2019 6:19:22 PM
Instrument: GC14B Vial: 2 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38928,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b002
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 11:39:01 AM
 Analysis Date: 1/10/2019 6:17:18 PM
 Instrument: GC14B Vial: 2 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	22035	0.000 CAL
DSL:10-14	13661	0.000 CAL
DSL:10-22	87990	0.000 CAL
DSL:10-24	240522	0.000 CAL
DSL:10-28	590730	0.000 CAL
DSL:12-24	235890	0.000 CAL
DSL:12-28	586098	0.000 CAL
DSL:14-24	228057	0.000 CAL
DSL:16-24	219337	0.000 CAL
MO:22-32	619636	50.000 CAL
MO:24-36	524127	50.000 CAL
MO:28-40	178478	50.000 CAL
BUNKC:10-40	734839	0.000 CAL
BUNKC:12-40	730207	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

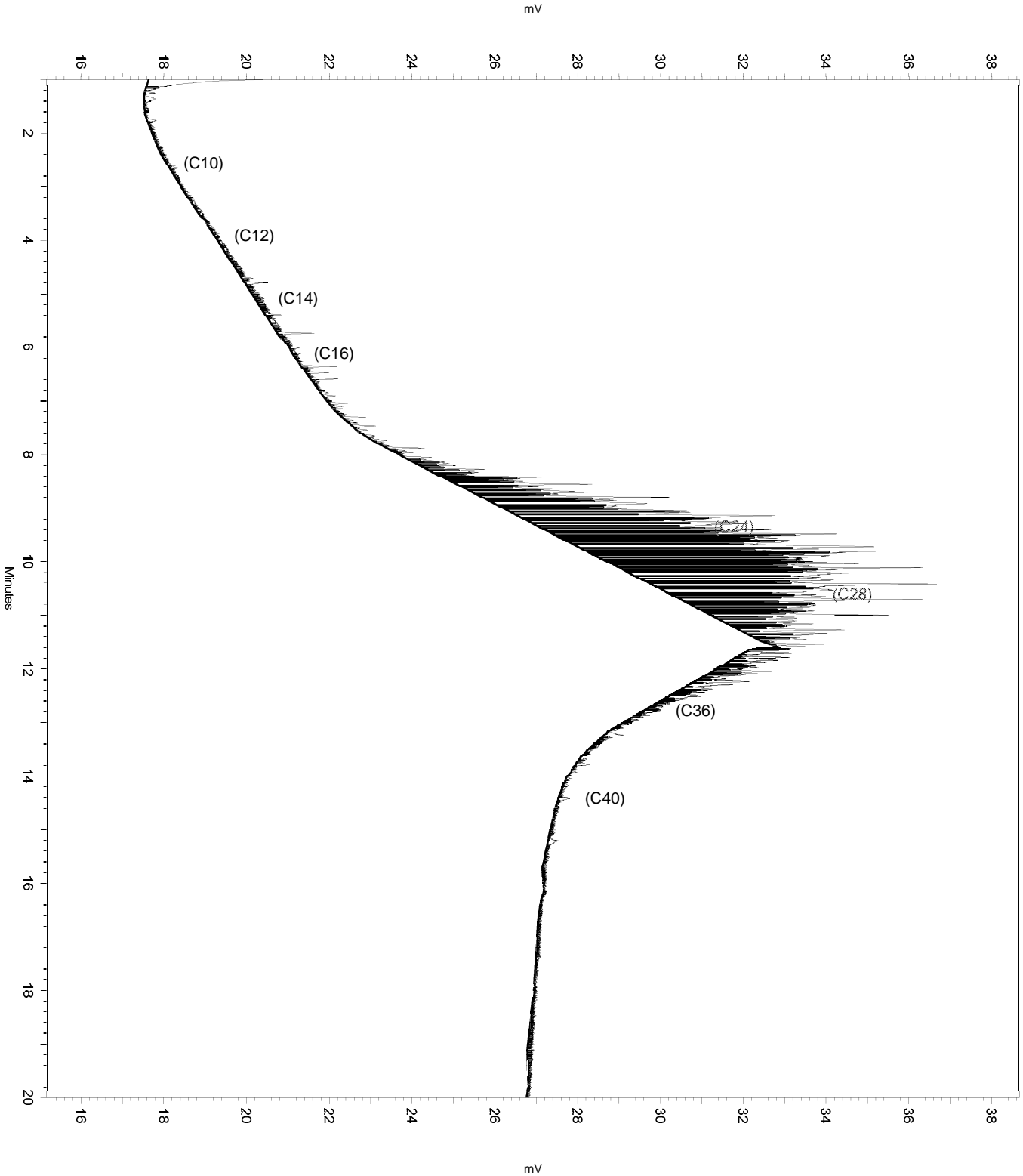
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Stop	11.473	16.153	0

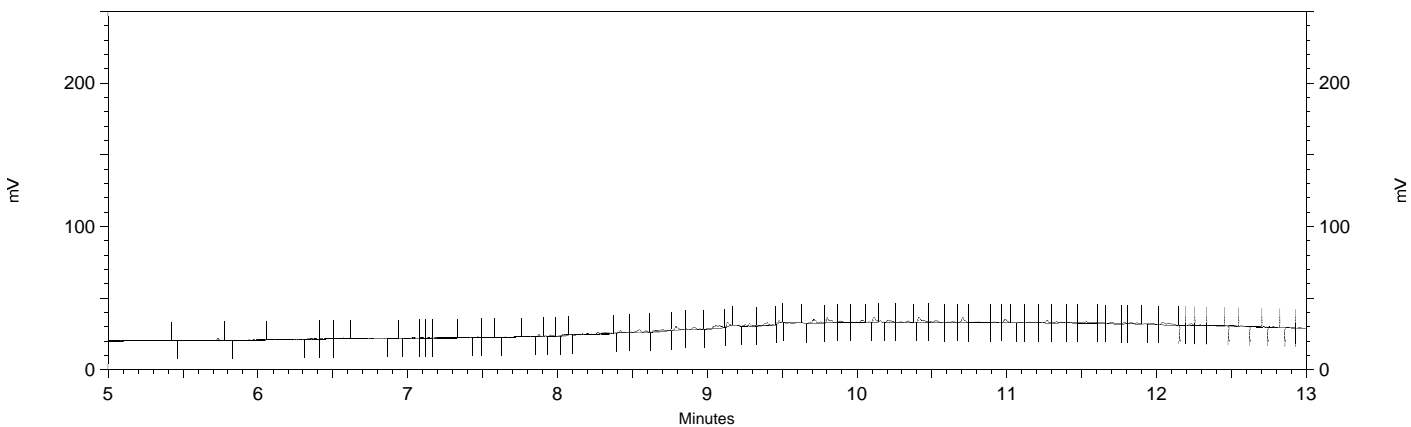
Sample Name: ical,s38928,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b002
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 11:39:01 AM
Analysis Date: 1/10/2019 6:17:18 PM
Instrument: GC14B Vial: 2 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38928,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b002
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_008.met
 Run Date: 1/10/2019 11:39:01 AM
 Analysis Date: 1/10/2019 11:59:10 AM
 Instrument: GC14B Vial: 2 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.303	1251	0.028
Hexacosane	10.037	3825	0.107



 < General Method Parameters >-----

No items selected for this section

 < B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

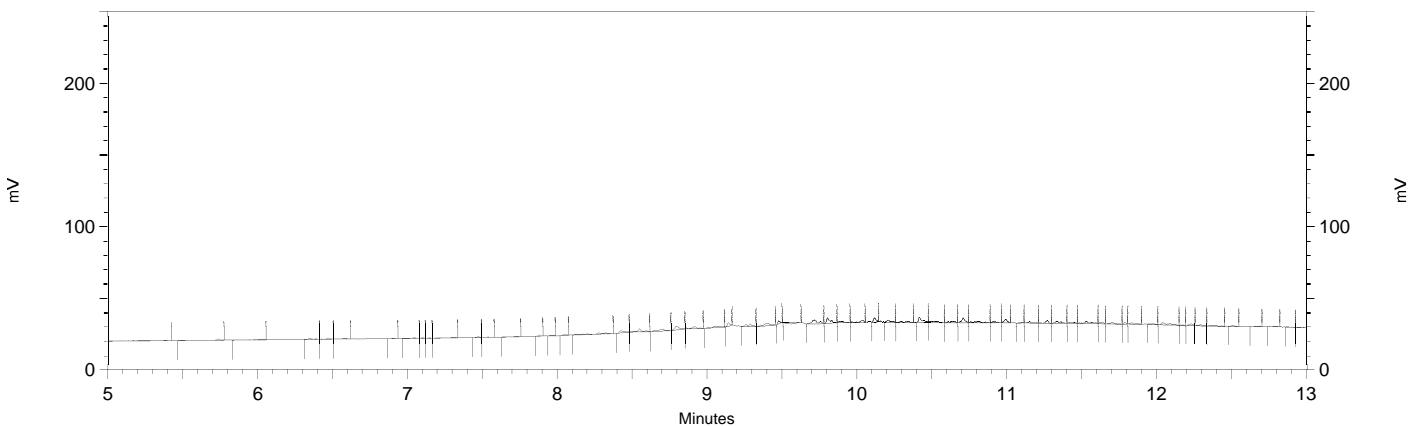
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\010b002_B3A8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s38928,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b002
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_010.met
 Run Date: 1/10/2019 11:39:01 AM
 Analysis Date: 1/10/2019 5:55:36 PM
 Instrument: GC14B Vial: 2 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.303	1251	0.000 CAL
Hexacosane	10.037	3825	0.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

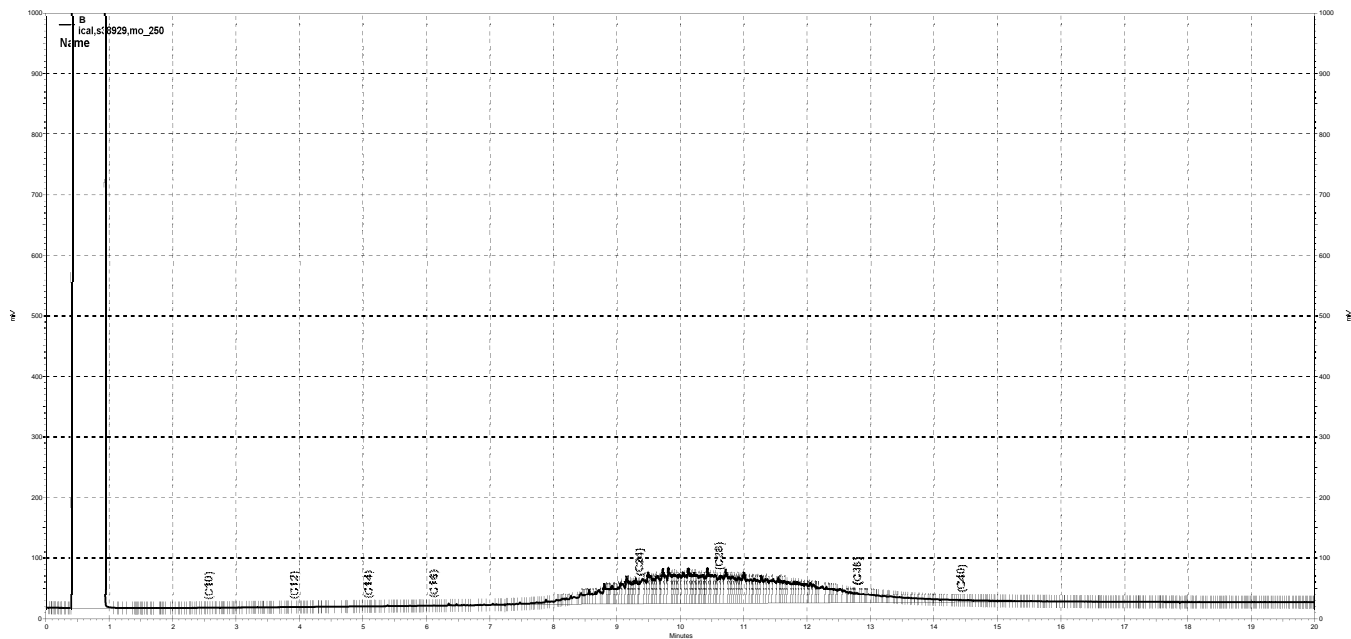
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b002
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

— \\kraken\drive\ezchrom\Projects\GC14B\Data\2019\010b003, B

Sample Name: ical,s38929,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b003
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 12:06:12 PM
 Analysis Date: 1/10/2019 6:19:29 PM
 Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	52298	0.000 CAL
DSL:10-14	22260	0.000 CAL
DSL:10-22	768021	0.000 CAL
DSL:10-24	2027867	0.000 CAL
DSL:10-28	5383168	0.000 CAL
DSL:12-24	2023012	0.000 CAL
DSL:12-28	5378313	0.000 CAL
DSL:14-24	2007700	0.000 CAL
DSL:16-24	1980527	0.000 CAL
MO:22-32	7341735	250.000 CAL
MO:24-36	7754903	250.000 CAL
MO:28-40	5199865	250.000 CAL
BUNKC:10-40	10199911	0.000 CAL
BUNKC:12-40	10195056	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

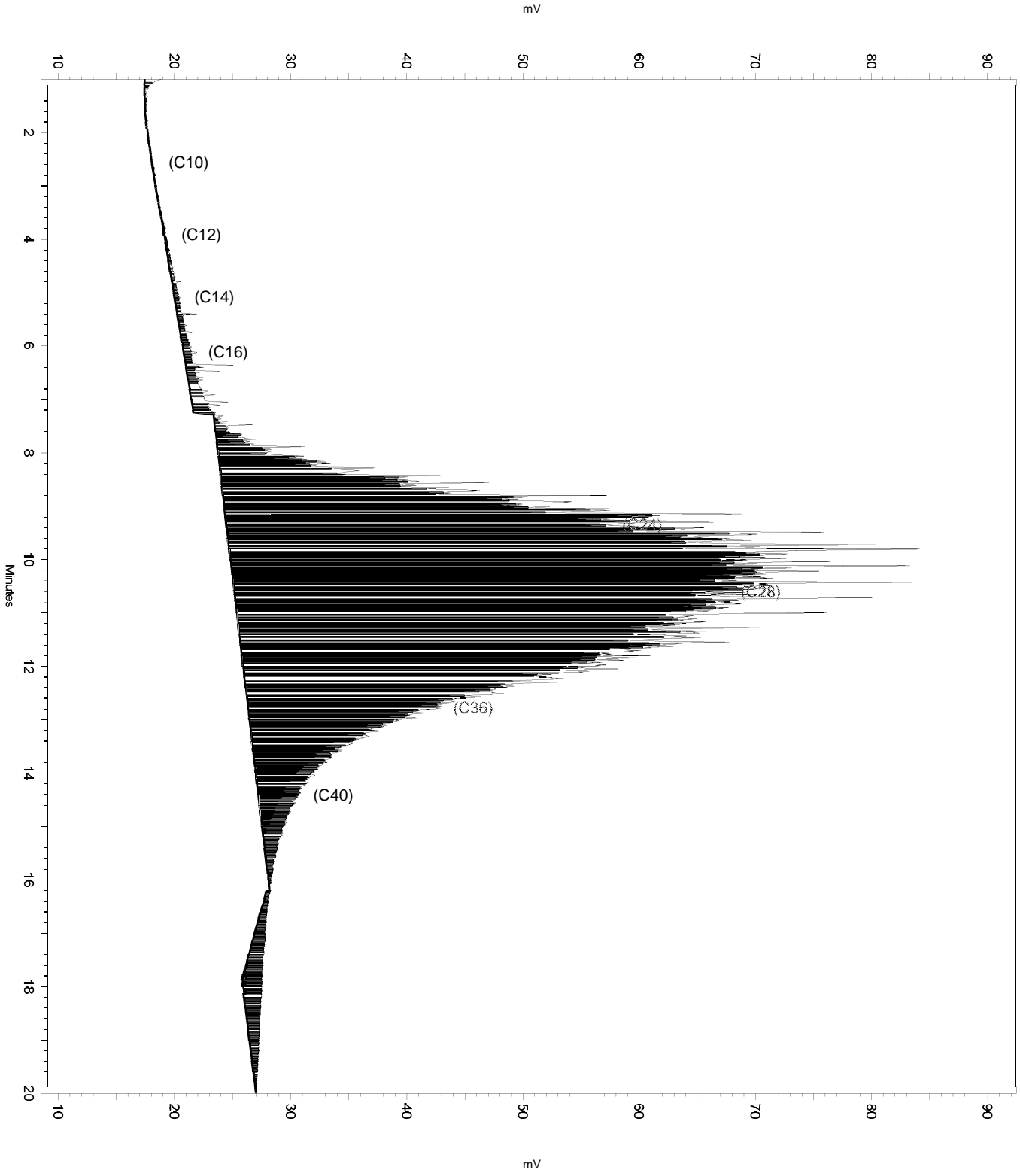
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline	7.28	0	0
Yes	Move BL Stop	13.688	16.219	0

Sample Name: ical,s38929,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b003
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 12:06:12 PM
Analysis Date: 1/10/2019 6:19:29 PM
Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38929,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b003
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 12:06:12 PM
 Analysis Date: 1/10/2019 6:04:10 PM
 Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	52298	0.000 CAL
DSL:10-14	22260	0.000 CAL
DSL:10-22	831578	0.000 CAL
DSL:10-24	2063570	0.000 CAL
DSL:10-28	5274604	0.000 CAL
DSL:12-24	2058715	0.000 CAL
DSL:12-28	5269749	0.000 CAL
DSL:14-24	2043403	0.000 CAL
DSL:16-24	2016230	0.000 CAL
MO:22-32	6941514	250.000 CAL
MO:24-36	7063017	250.000 CAL
MO:28-40	4120270	250.000 CAL
BUNKC:10-40	9035438	0.000 CAL
BUNKC:12-40	9030583	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

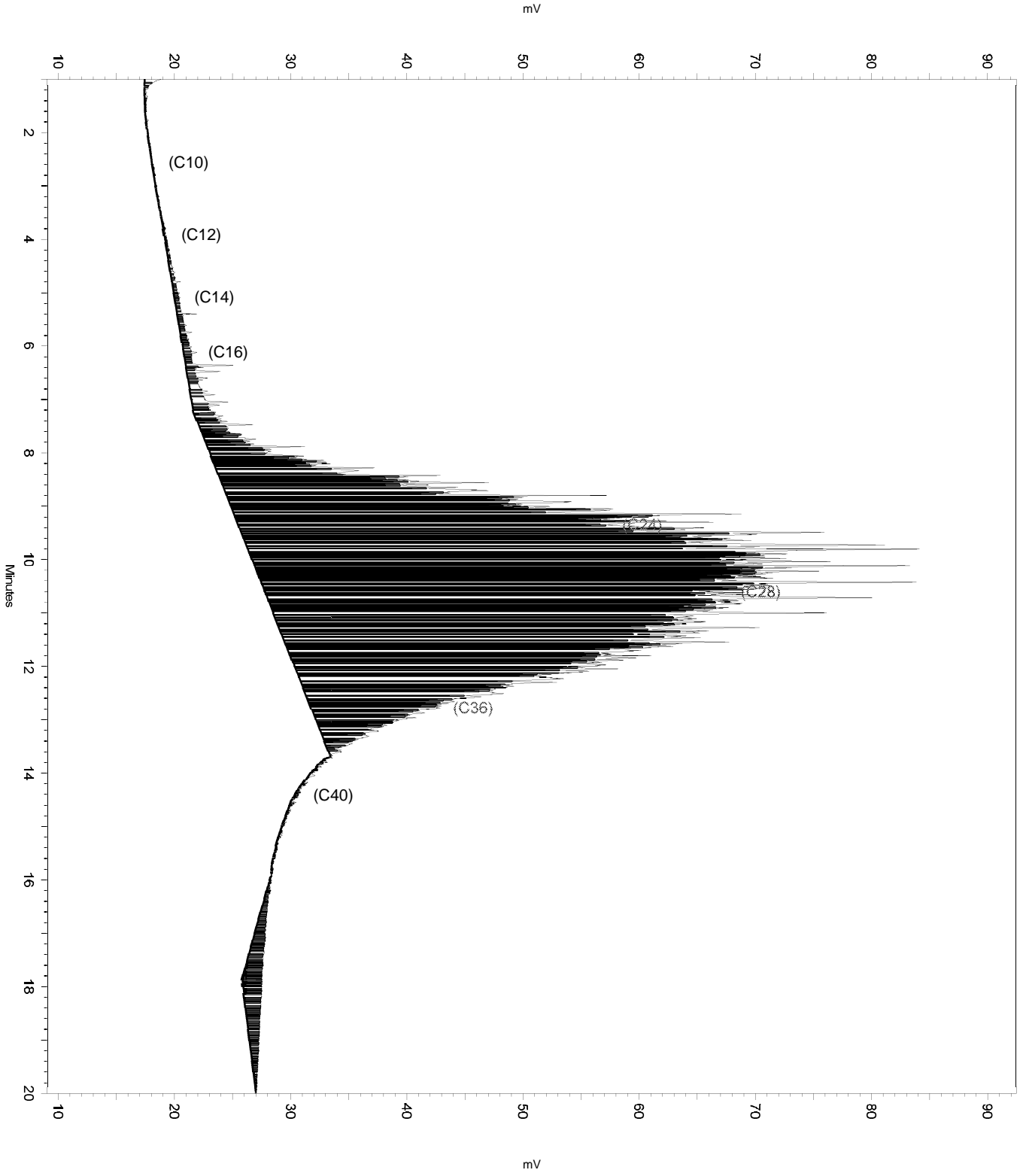
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

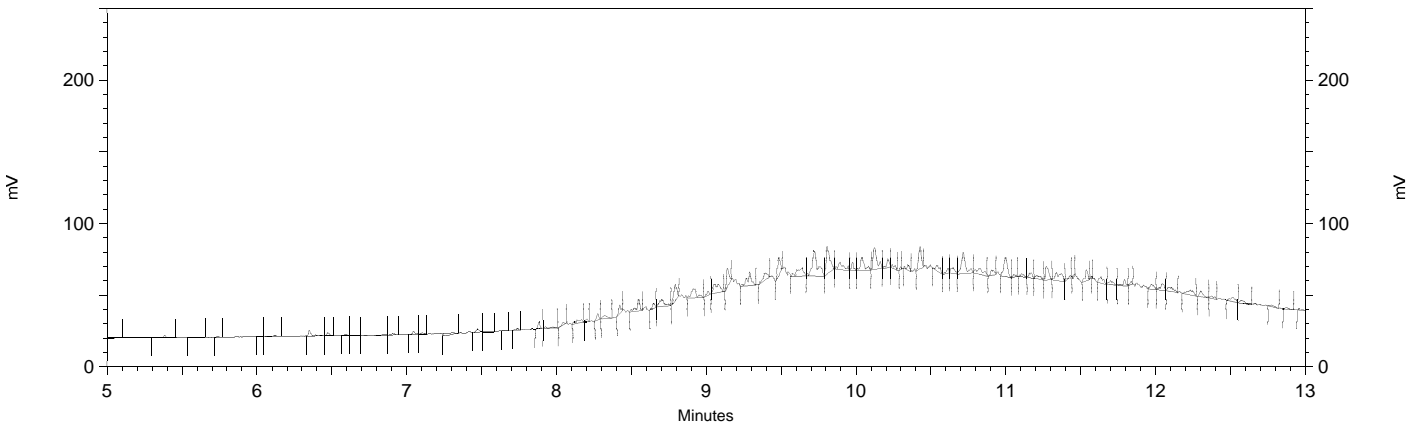
Sample Name: ical,s38929,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b003
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 12:06:12 PM
Analysis Date: 1/10/2019 6:04:10 PM
Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38929,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b003
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_008.met
 Run Date: 1/10/2019 12:06:12 PM
 Analysis Date: 1/10/2019 12:26:22 PM
 Instrument: GC14B Vial: 3 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.305	6236	0.139
Hexacosane	10.042	18154	0.508



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

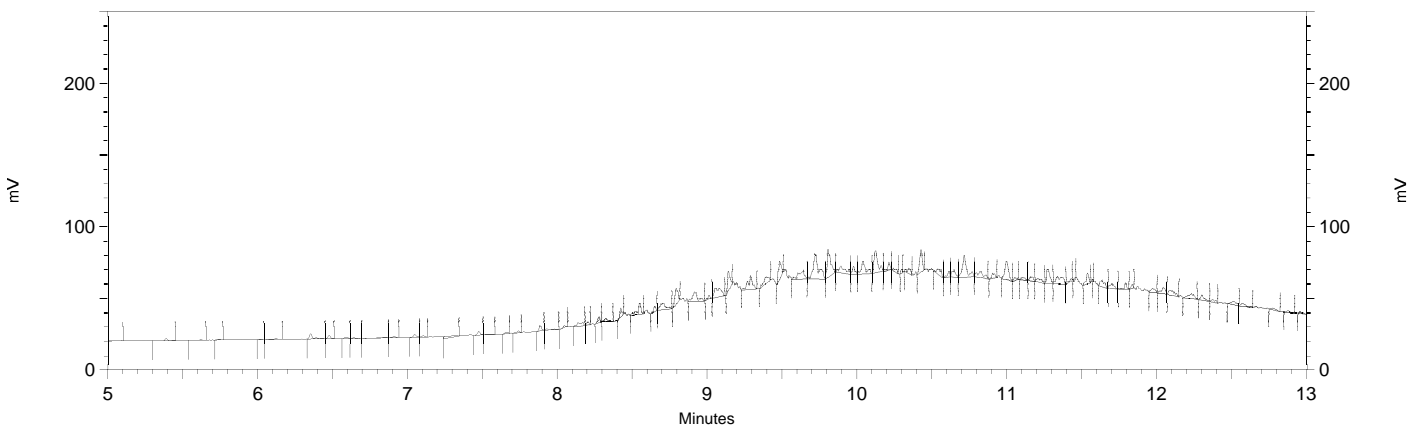
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\010b003_B3A9.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s38929,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b003
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_010.met
 Run Date: 1/10/2019 12:06:12 PM
 Analysis Date: 1/10/2019 5:55:40 PM
 Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.305	6236	0.000 CAL
Hexacosane	10.042	18154	0.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

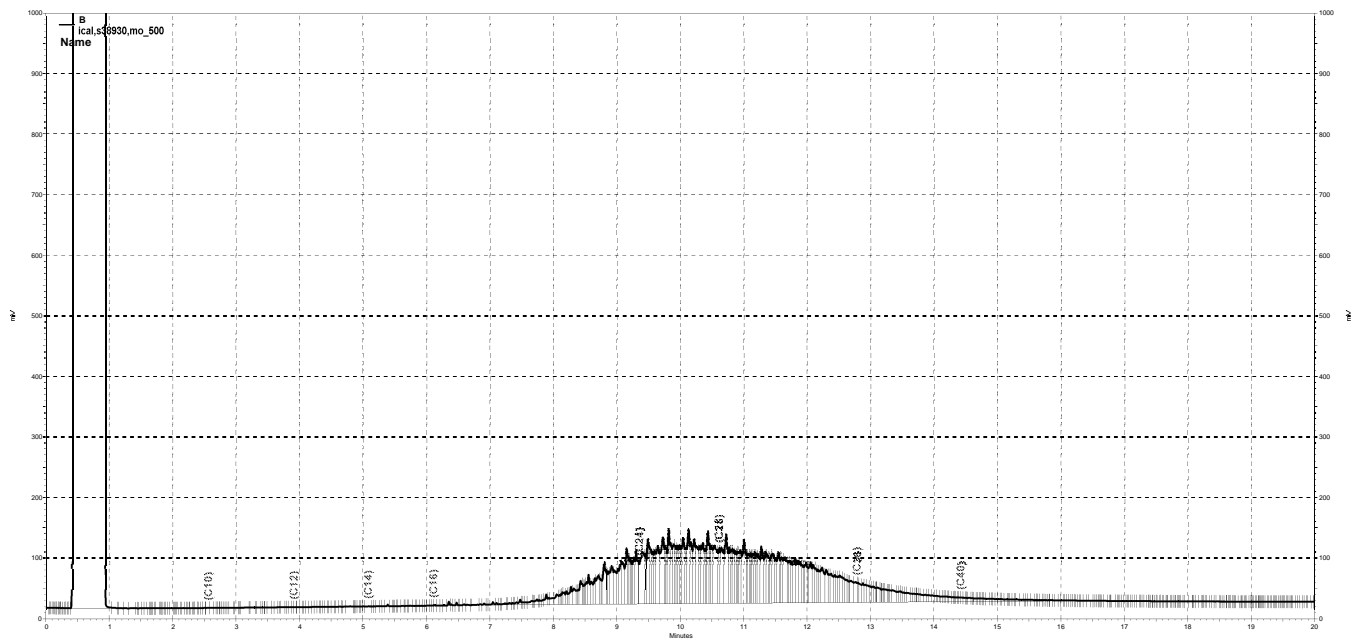
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b003
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



— \\kraken\drive\ezchrom\Projects\GC14B\Data\2019\010b004, B

Sample Name: ical,s38930,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 12:33:05 PM
 Analysis Date: 1/10/2019 6:19:36 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	26211	0.000 CAL
DSL:10-14	13671	0.000 CAL
DSL:10-22	1504792	0.000 CAL
DSL:10-24	4230821	0.000 CAL
DSL:10-28	11141061	0.000 CAL
DSL:12-24	4224699	0.000 CAL
DSL:12-28	11134939	0.000 CAL
DSL:14-24	4218328	0.000 CAL
DSL:16-24	4207020	0.000 CAL
MO:22-32	15127201	500.000 CAL
MO:24-36	15974280	500.000 CAL
MO:28-40	10727869	500.000 CAL
BUNKC:10-40	20933856	0.000 CAL
BUNKC:12-40	20927736	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

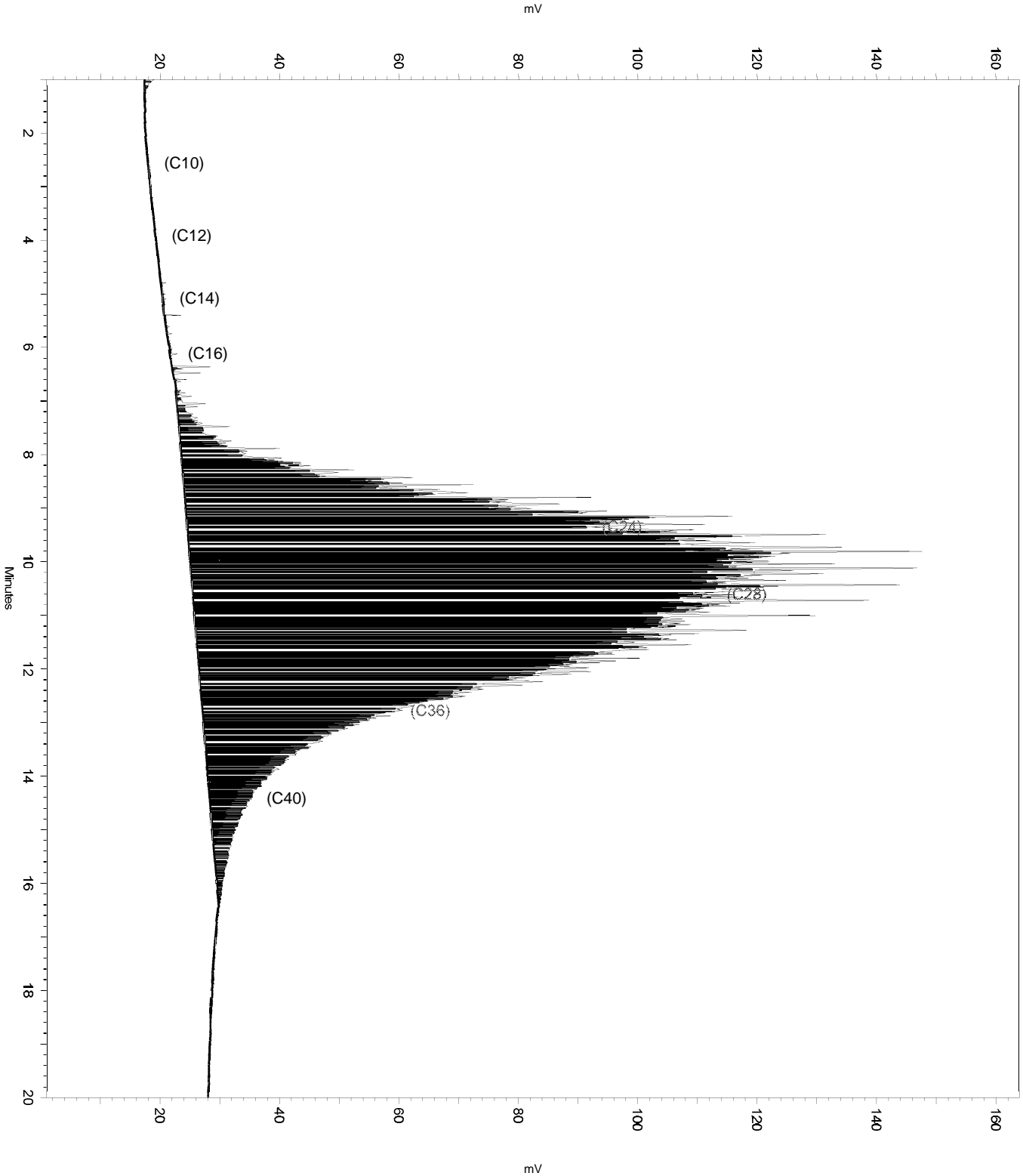
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	14.008	16.44	0

Sample Name: ical,s38930,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 12:33:05 PM
Analysis Date: 1/10/2019 6:19:36 PM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38930,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 12:33:05 PM
 Analysis Date: 1/10/2019 6:06:14 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	26211	0.000 CAL
DSL:10-14	13671	0.000 CAL
DSL:10-22	1344532	0.000 CAL
DSL:10-24	3938311	0.000 CAL
DSL:10-28	10523621	0.000 CAL
DSL:12-24	3932189	0.000 CAL
DSL:12-28	10517499	0.000 CAL
DSL:14-24	3925818	0.000 CAL
DSL:16-24	3914510	0.000 CAL
MO:22-32	14267852	500.000 CAL
MO:24-36	14758356	500.000 CAL
MO:28-40	9014823	500.000 CAL
BUNKC:10-40	18656840	0.000 CAL
BUNKC:12-40	18650720	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

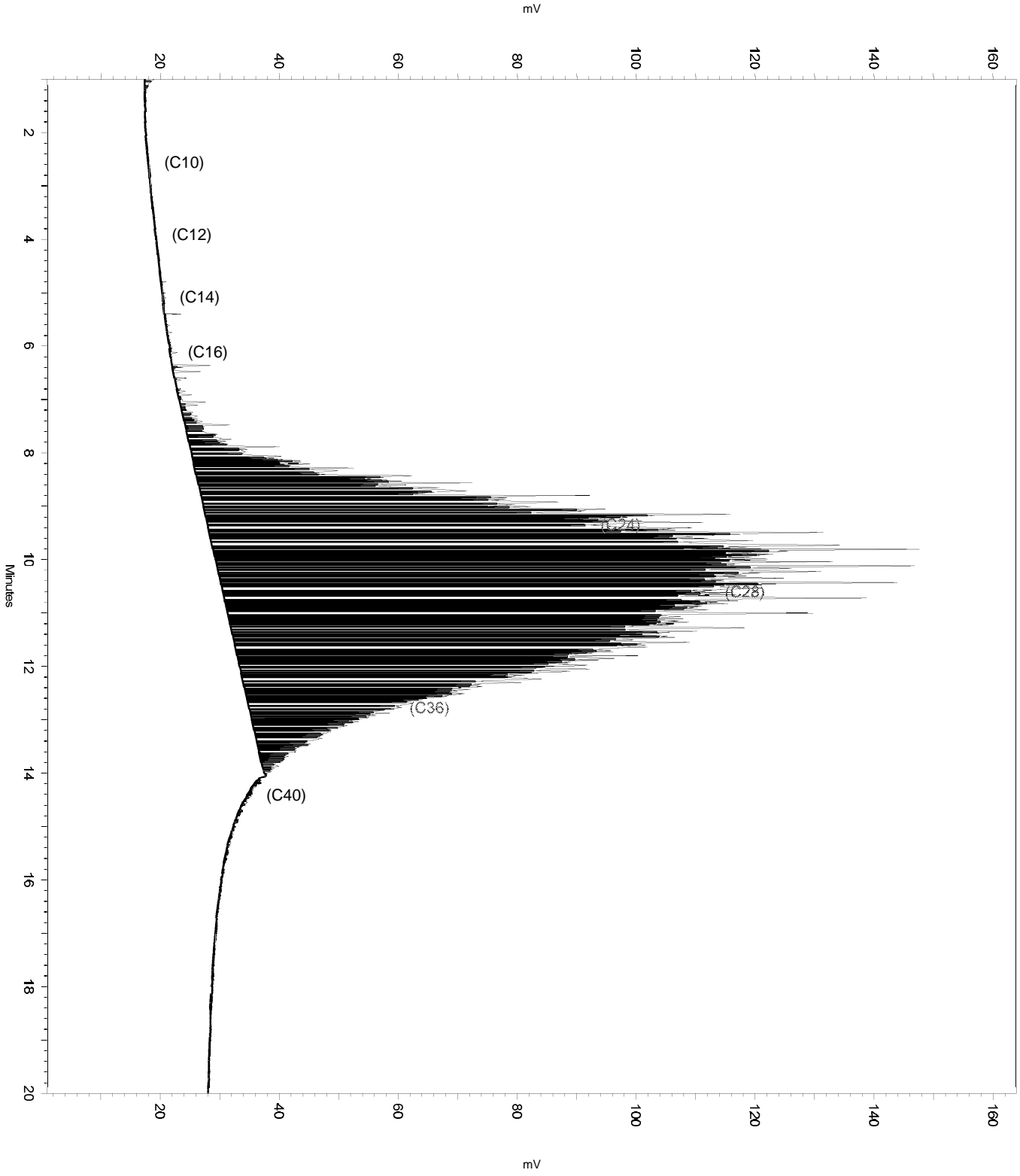
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

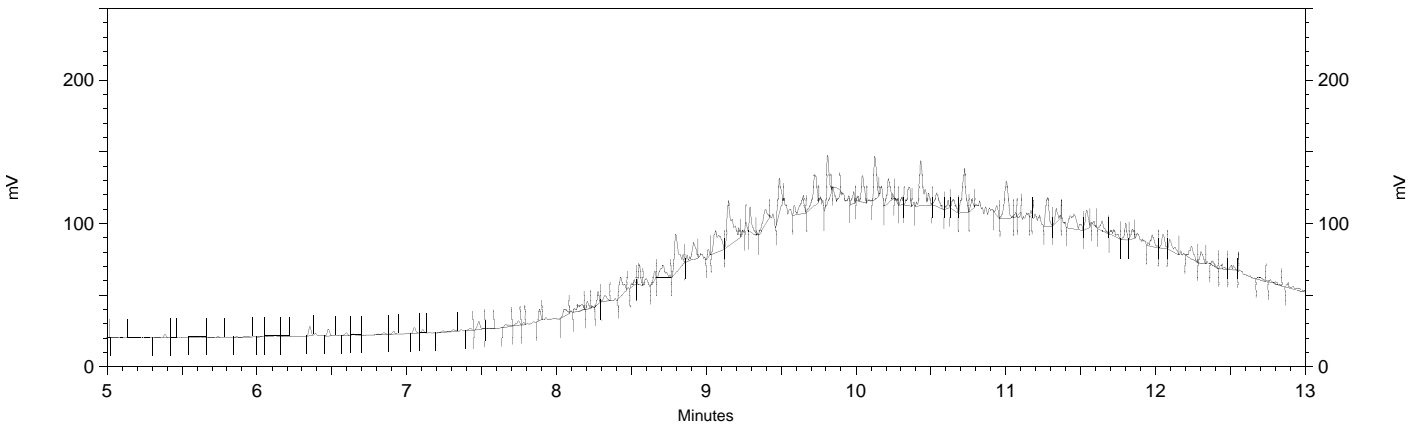
Sample Name: ical,s38930,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 12:33:05 PM
Analysis Date: 1/10/2019 6:06:14 PM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38930,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_008.met
 Run Date: 1/10/2019 12:33:05 PM
 Analysis Date: 1/10/2019 12:53:14 PM
 Instrument: GC14B Vial: 4 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.307	4908	0.110
Hexacosane	10.043	27128	0.760



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

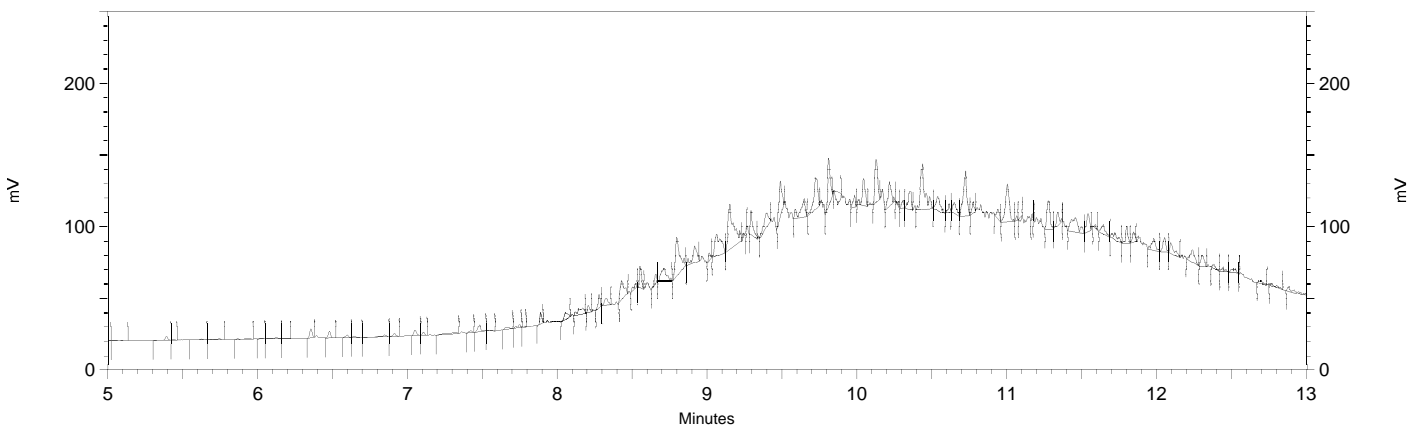
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\010b004_B3AA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s38930,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_010.met
 Run Date: 1/10/2019 12:33:05 PM
 Analysis Date: 1/10/2019 5:55:45 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.307	4908	0.000 CAL
Hexacosane	10.043	27128	0.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

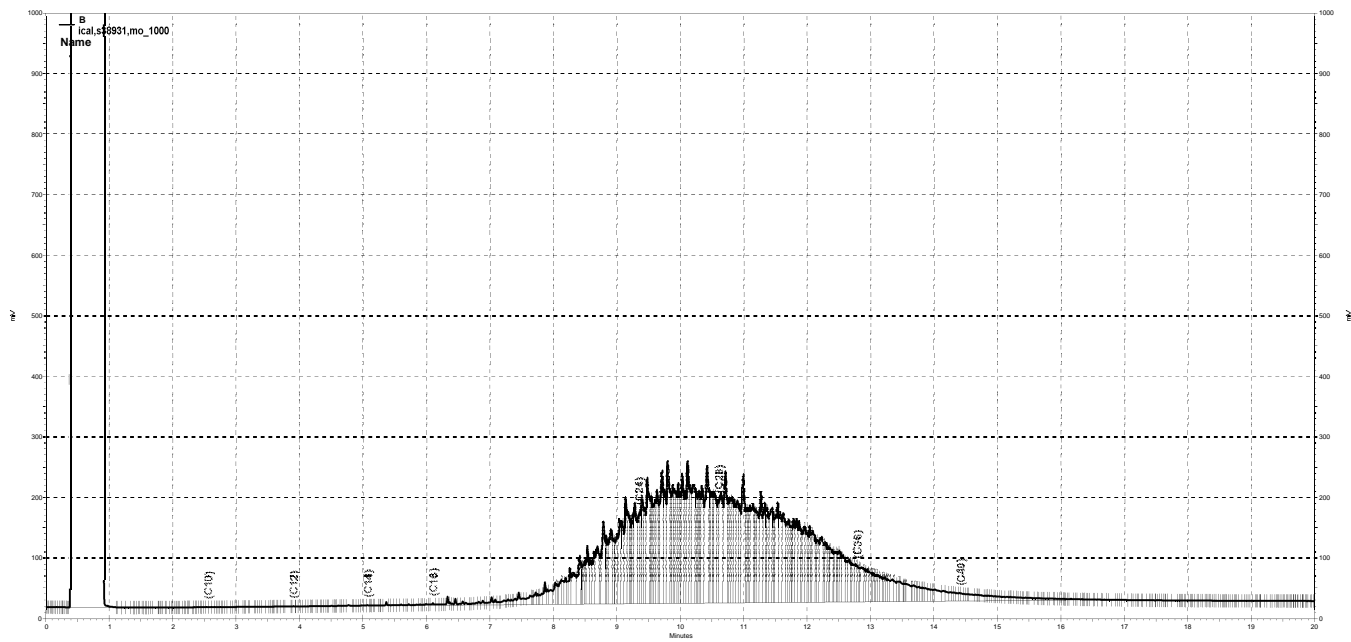
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b004
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b005, B

Sample Name: ical,s38931,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 1:00:41 PM
 Analysis Date: 1/10/2019 6:19:42 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	103376	0.000 CAL
DSL:10-14	35240	0.000 CAL
DSL:10-22	3371094	0.000 CAL
DSL:10-24	8694126	0.000 CAL
DSL:10-28	22394804	0.000 CAL
DSL:12-24	8687824	0.000 CAL
DSL:12-28	22388504	0.000 CAL
DSL:14-24	8664057	0.000 CAL
DSL:16-24	8606340	0.000 CAL
MO:22-32	30191428	1000.000 CAL
MO:24-36	31240452	1000.000 CAL
MO:28-40	19931948	1000.000 CAL
BUNKC:10-40	41319576	0.000 CAL
BUNKC:12-40	41313280	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

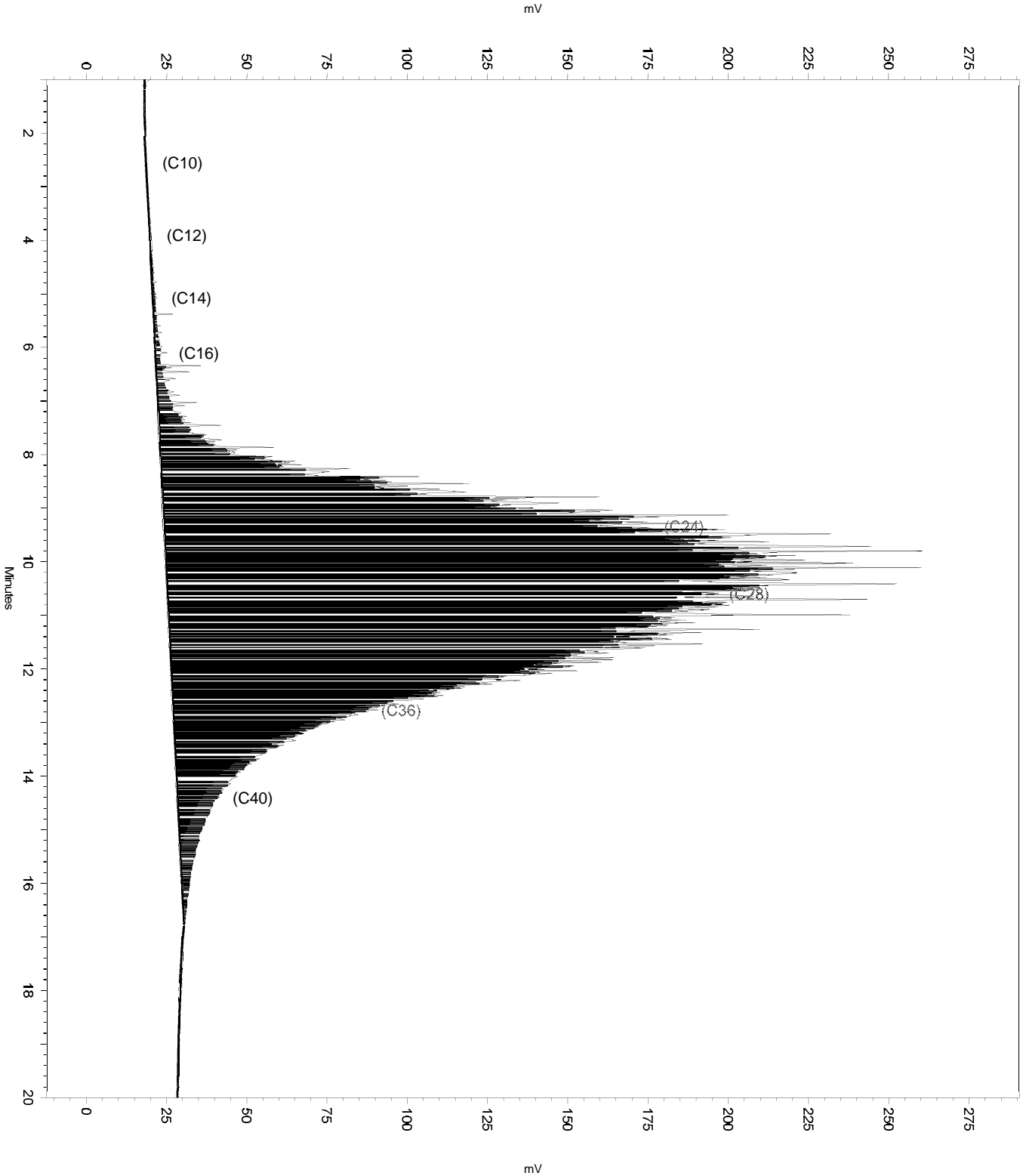
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline	16.761	0	0

Sample Name: ical,s38931,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 1:00:41 PM
Analysis Date: 1/10/2019 6:19:42 PM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38931,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 1:00:41 PM
 Analysis Date: 1/10/2019 6:06:43 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	213618	0.000 CAL
DSL:10-14	92705	0.000 CAL
DSL:10-22	3676436	0.000 CAL
DSL:10-24	9070282	0.000 CAL
DSL:10-28	22917120	0.000 CAL
DSL:12-24	9049394	0.000 CAL
DSL:12-28	22896232	0.000 CAL
DSL:14-24	8988248	0.000 CAL
DSL:16-24	8881609	0.000 CAL
MO:22-32	30575952	1000.000 CAL
MO:24-36	31711612	1000.000 CAL
MO:28-40	20540960	1000.000 CAL
BUNKC:10-40	42438556	0.000 CAL
BUNKC:12-40	42417668	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

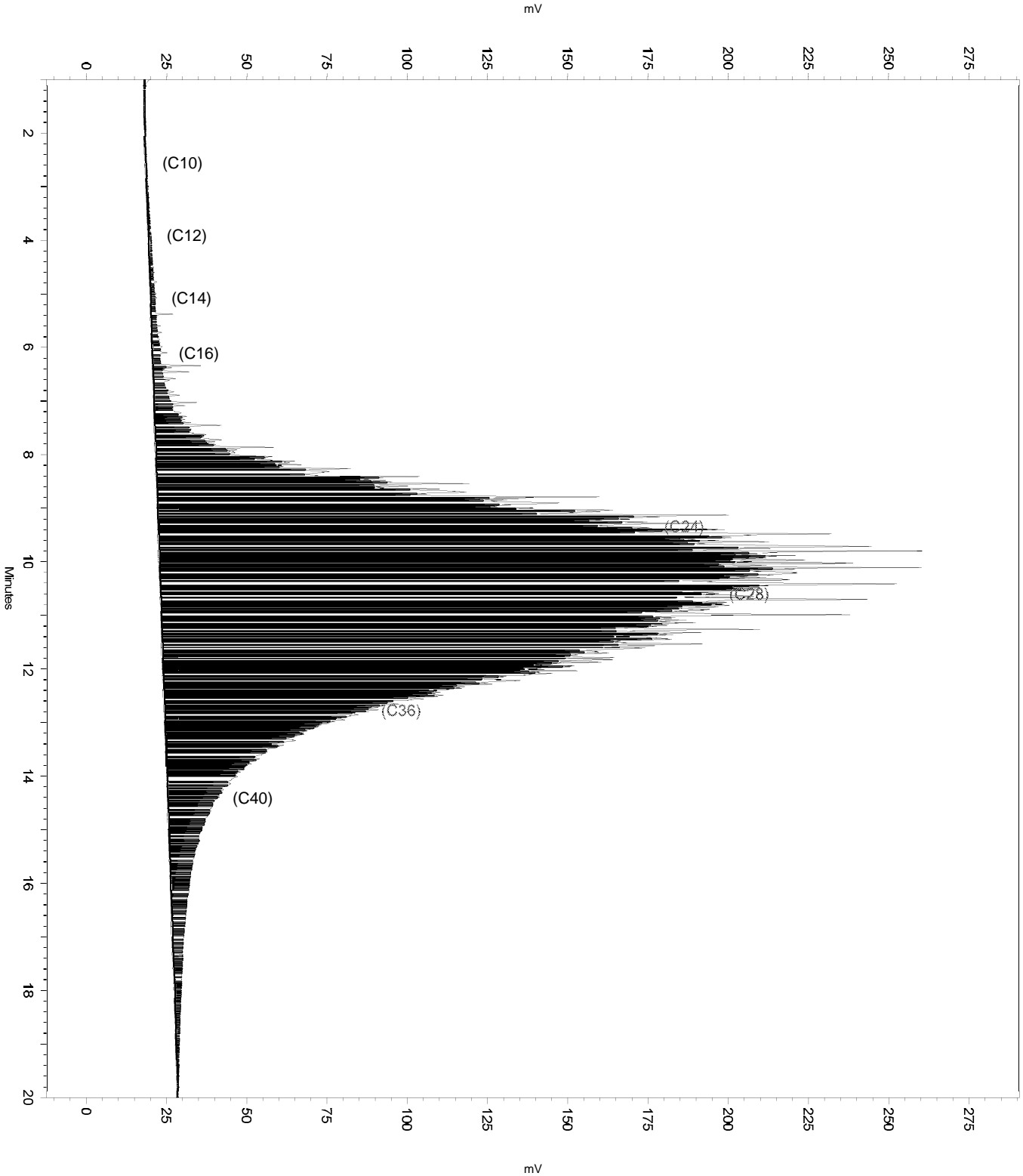
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

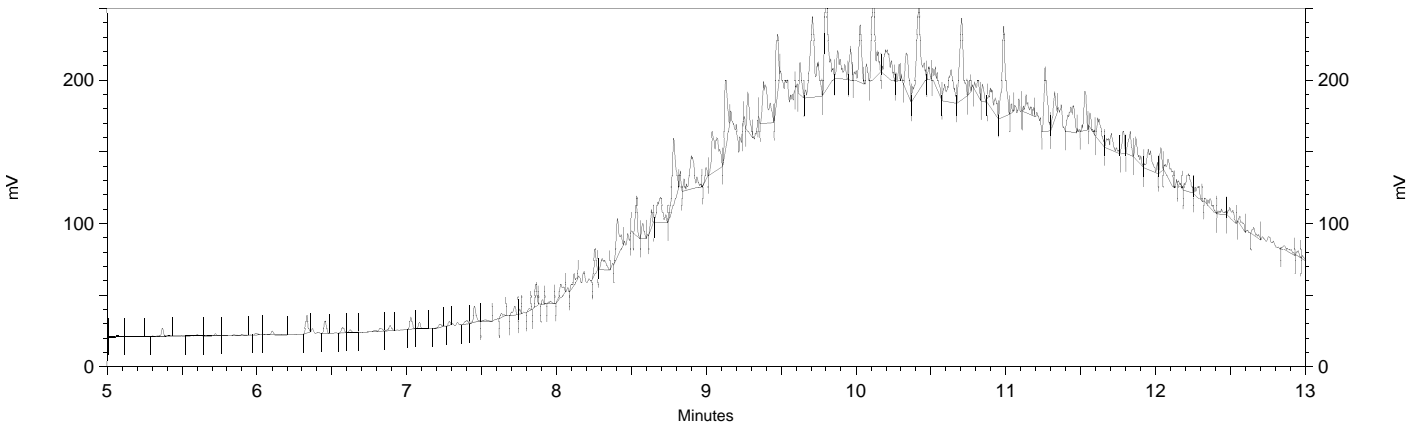
Sample Name: ical,s38931,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 1:00:41 PM
Analysis Date: 1/10/2019 6:06:43 PM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38931,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_008.met
 Run Date: 1/10/2019 1:00:41 PM
 Analysis Date: 1/10/2019 1:20:49 PM
 Instrument: GC14B Vial: 5 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.285	2032	0.045
Hexacosane	10.030	62018	1.737



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

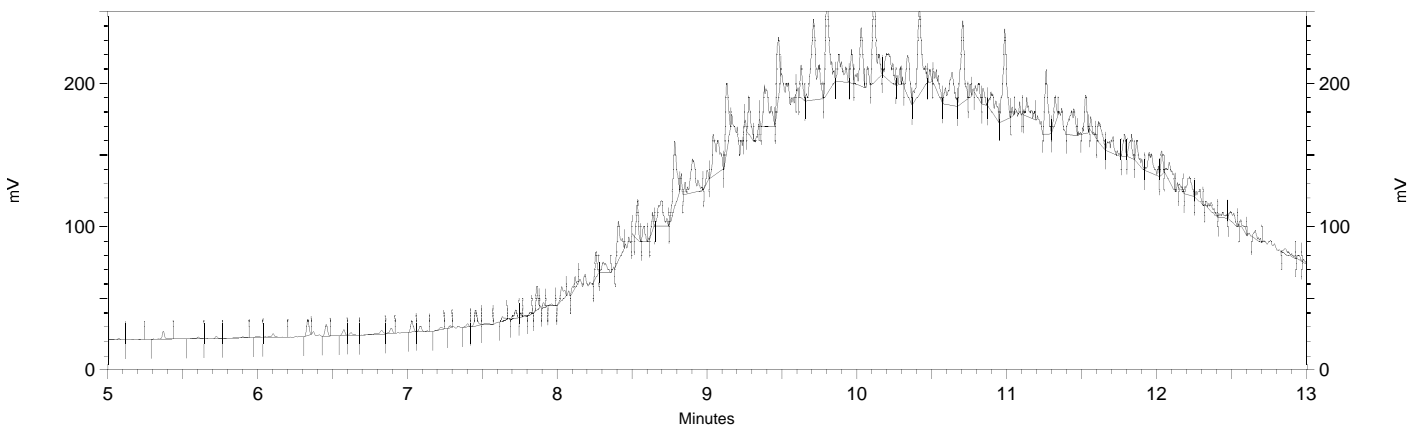
```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\010b005_B3AB.tmp
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

Sample Name: ical,s38931,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_010.met
 Run Date: 1/10/2019 1:00:41 PM
 Analysis Date: 1/10/2019 5:55:49 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.285	2032	0.000 CAL
Hexacosane	10.030	62018	0.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

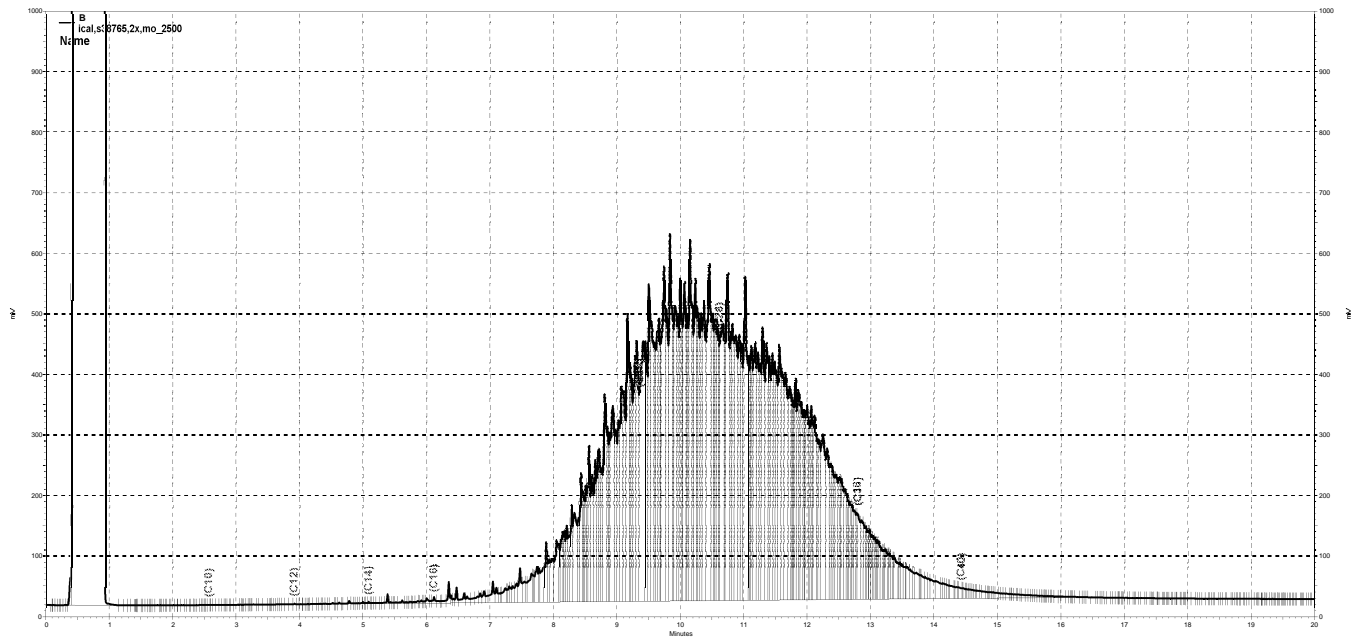
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b005
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b006, B

Sample Name: ical,s38765,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b006
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 1:27:42 PM
 Analysis Date: 1/10/2019 6:19:48 PM
 Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	219421	0.000 CAL
DSL:10-14	61886	0.000 CAL
DSL:10-22	9133177	0.000 CAL
DSL:10-24	23348554	0.000 CAL
DSL:10-28	58292480	0.000 CAL
DSL:12-24	23338670	0.000 CAL
DSL:12-28	58282600	0.000 CAL
DSL:14-24	23295554	0.000 CAL
DSL:16-24	23157906	0.000 CAL
MO:22-32	77101192	2500.000 CAL
MO:24-36	80510184	2500.000 CAL
MO:28-40	50537388	2500.000 CAL
BUNKC:10-40	104785488	0.000 CAL
BUNKC:12-40	104775616	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

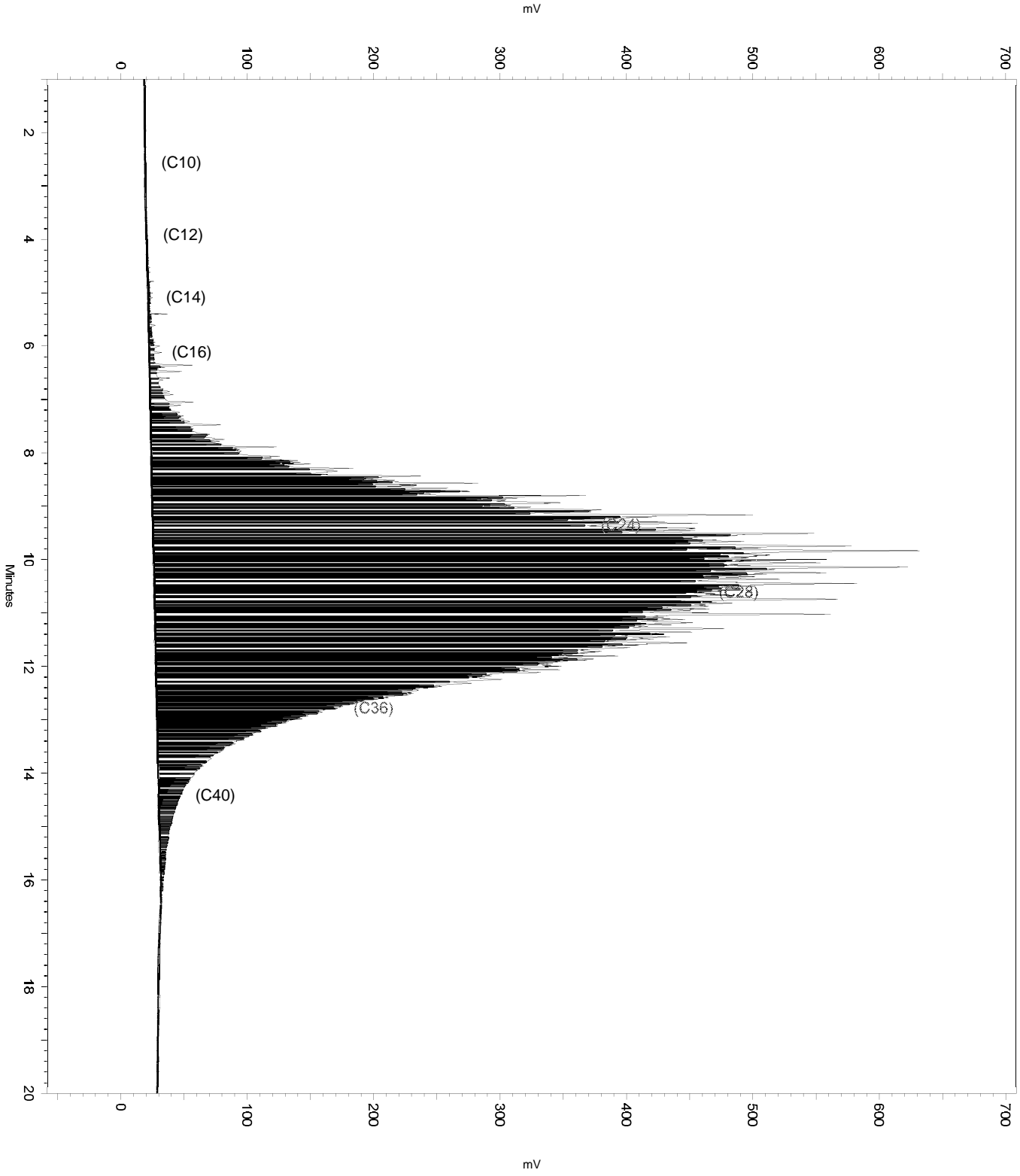
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b006				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline	16.429	0	0

Sample Name: ical,s38765,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b006
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 1:27:42 PM
Analysis Date: 1/10/2019 6:19:48 PM
Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38765,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b006
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 1:27:42 PM
 Analysis Date: 1/10/2019 6:07:06 PM
 Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	319435	0.000 CAL
DSL:10-14	111922	0.000 CAL
DSL:10-22	9434084	0.000 CAL
DSL:10-24	23726462	0.000 CAL
DSL:10-28	58823672	0.000 CAL
DSL:12-24	23704602	0.000 CAL
DSL:12-28	58801816	0.000 CAL
DSL:14-24	23627674	0.000 CAL
DSL:16-24	23441630	0.000 CAL
MO:22-32	77500544	2500.000 CAL
MO:24-36	81008792	2500.000 CAL
MO:28-40	51183220	2500.000 CAL
BUNKC:10-40	105942560	0.000 CAL
BUNKC:12-40	105920704	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

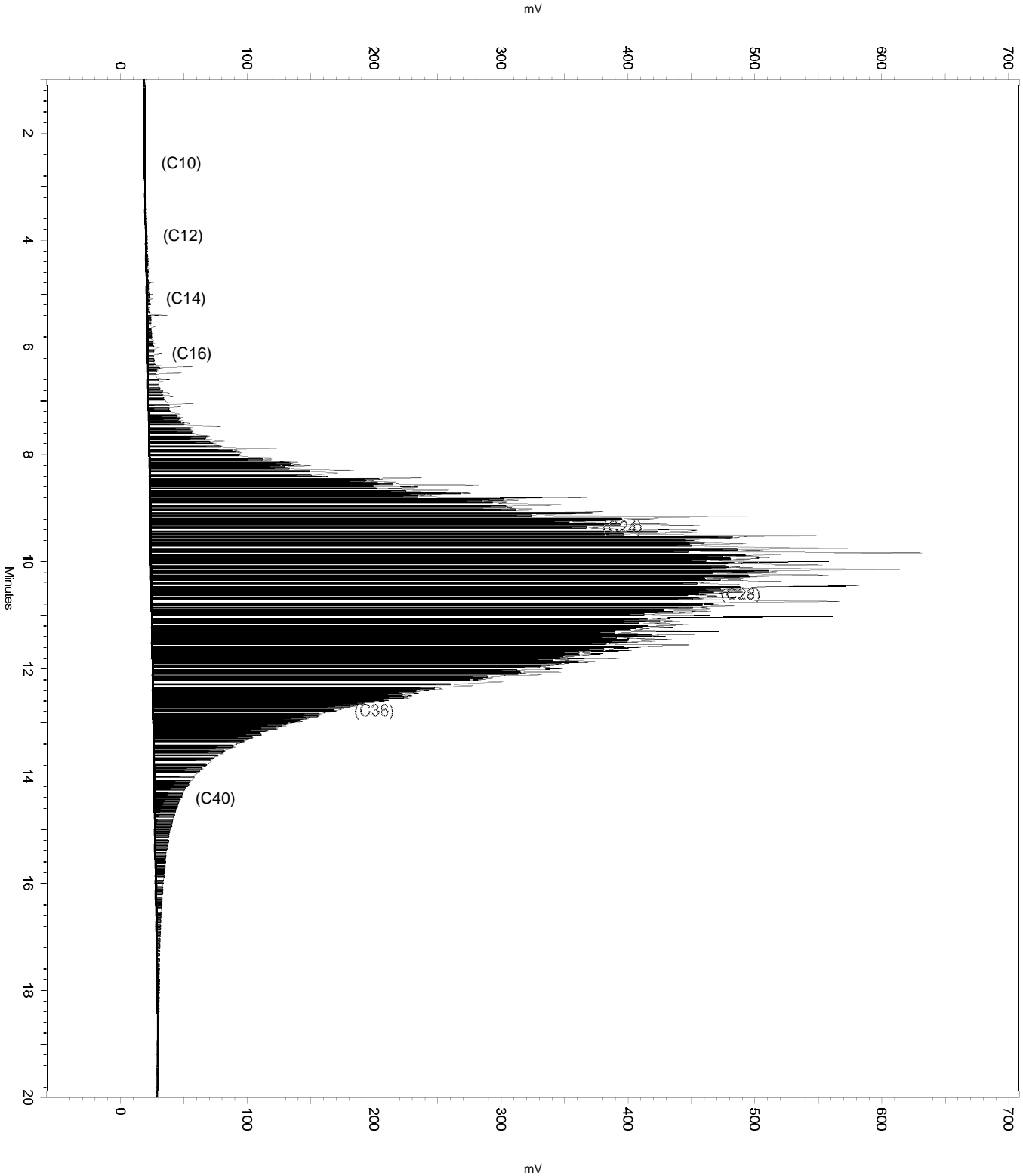
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b006
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

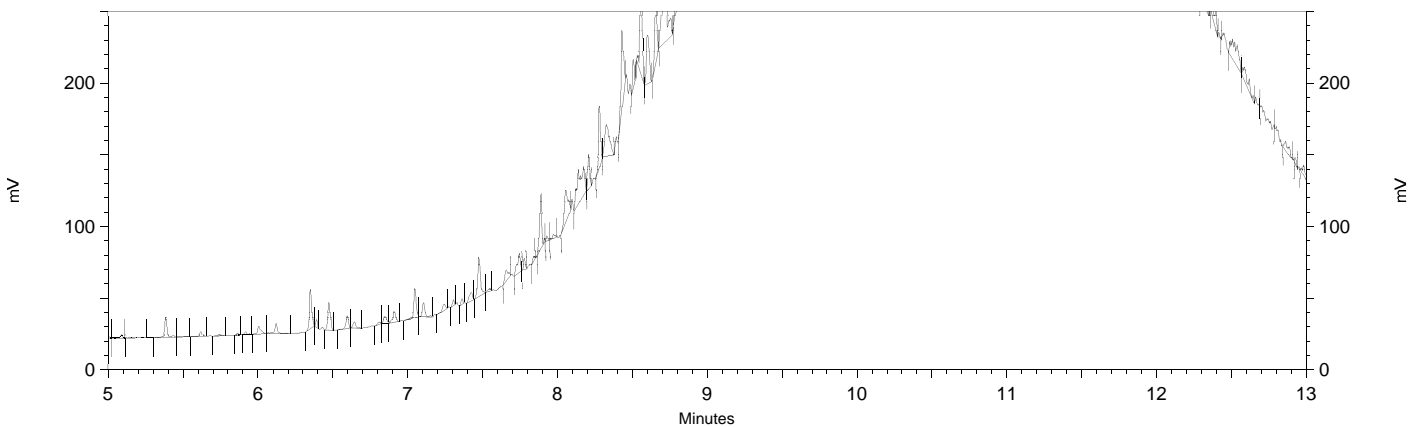
Sample Name: ical,s38765,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b006
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 1:27:42 PM
Analysis Date: 1/10/2019 6:07:06 PM
Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38765,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b006
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_008.met
 Run Date: 1/10/2019 1:27:42 PM
 Analysis Date: 1/10/2019 1:47:51 PM
 Instrument: GC14B Vial: 6 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.243	6626	0.148
Hexacosane	9.998	93493	2.618



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

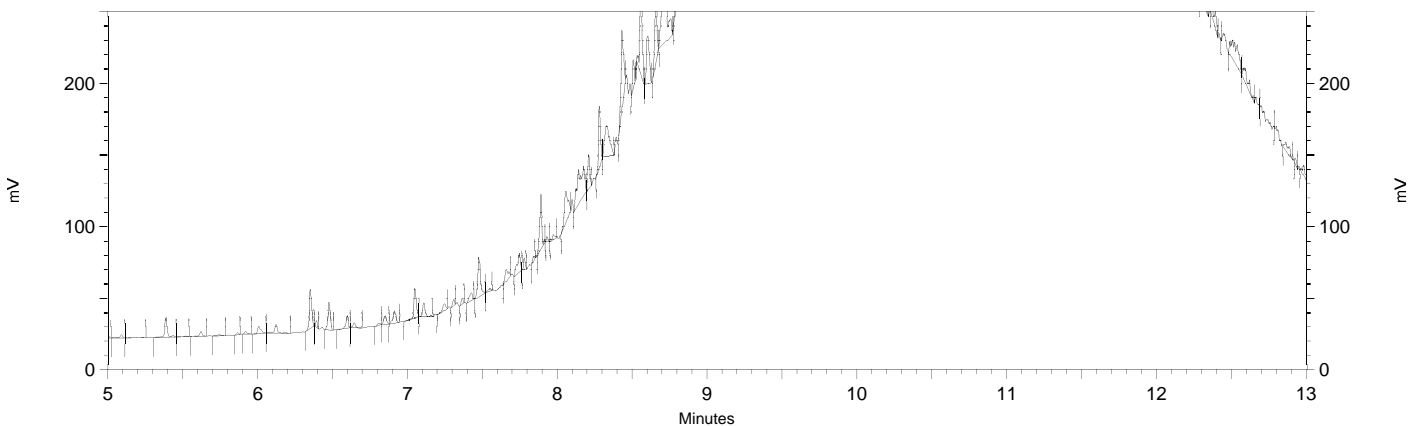
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\010b006_B3AC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s38765,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b006
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_010.met
 Run Date: 1/10/2019 1:27:42 PM
 Analysis Date: 1/10/2019 5:55:53 PM
 Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.243	6626	0.000 CAL
Hexacosane	9.998	93493	0.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

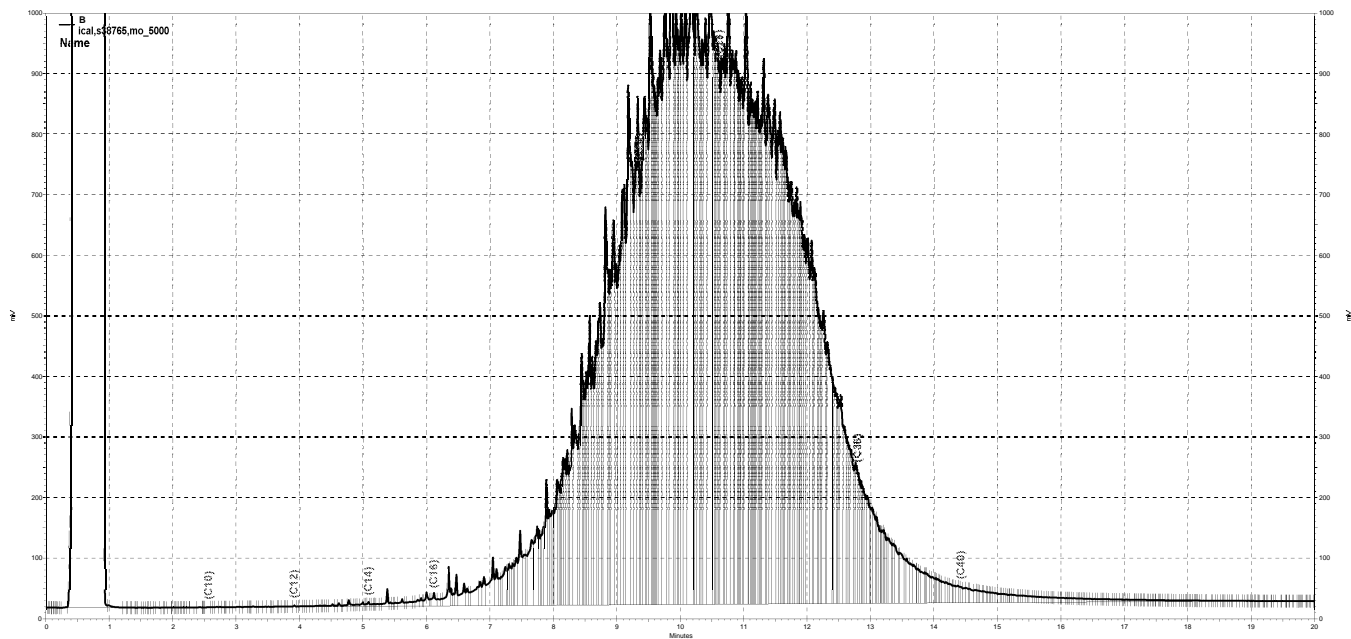
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\drive\ezchrom\Projects\GC14B\Data\2019\010b007, B

Sample Name: ical,s38765,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 1:54:31 PM
 Analysis Date: 1/10/2019 6:19:54 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	721119	0.000 CAL
DSL:10-14	206499	0.000 CAL
DSL:10-22	20031592	0.000 CAL
DSL:10-24	45720600	0.000 CAL
DSL:10-28	116341096	0.000 CAL
DSL:12-24	45689288	0.000 CAL
DSL:12-28	116309784	0.000 CAL
DSL:14-24	45549016	0.000 CAL
DSL:16-24	45124448	0.000 CAL
MO:22-32	153897536	5000.000 CAL
MO:24-36	157532496	5000.000 CAL
MO:28-40	96079432	5000.000 CAL
BUNKC:10-40	204703856	0.000 CAL
BUNKC:12-40	204672560	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

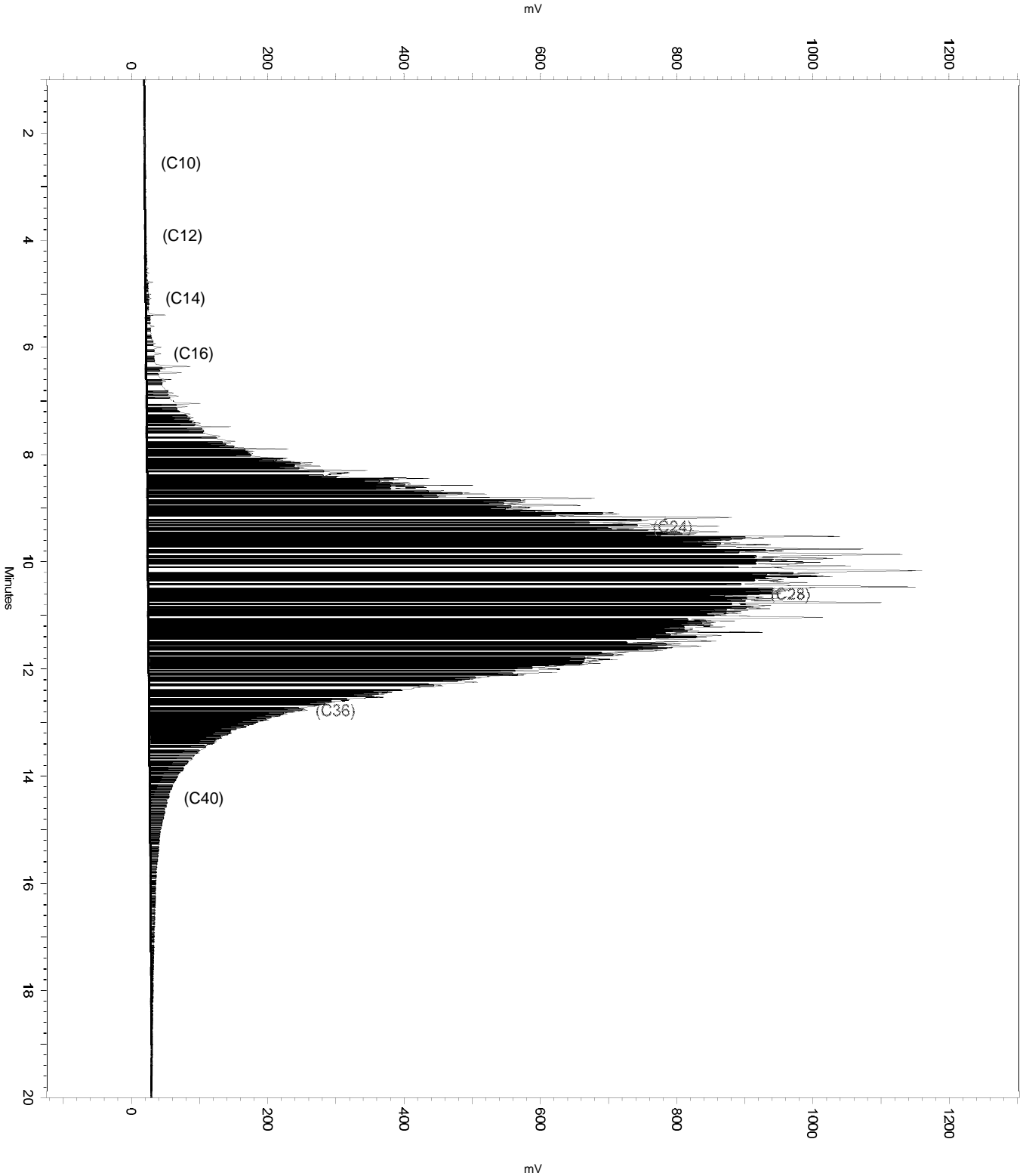
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	17.08	19.118	0

Sample Name: ical,s38765,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b007
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 1:54:31 PM
Analysis Date: 1/10/2019 6:19:54 PM
Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38765,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 1:54:31 PM
 Analysis Date: 1/10/2019 6:18:19 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	623806	0.000 CAL
DSL:10-14	156661	0.000 CAL
DSL:10-22	19759084	0.000 CAL
DSL:10-24	45384476	0.000 CAL
DSL:10-28	115868568	0.000 CAL
DSL:12-24	45365268	0.000 CAL
DSL:12-28	115849368	0.000 CAL
DSL:14-24	45257436	0.000 CAL
DSL:16-24	44877092	0.000 CAL
MO:22-32	153548304	5000.000 CAL
MO:24-36	157098672	5000.000 CAL
MO:28-40	95519408	5000.000 CAL
BUNKC:10-40	203687744	0.000 CAL
BUNKC:12-40	203668544	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

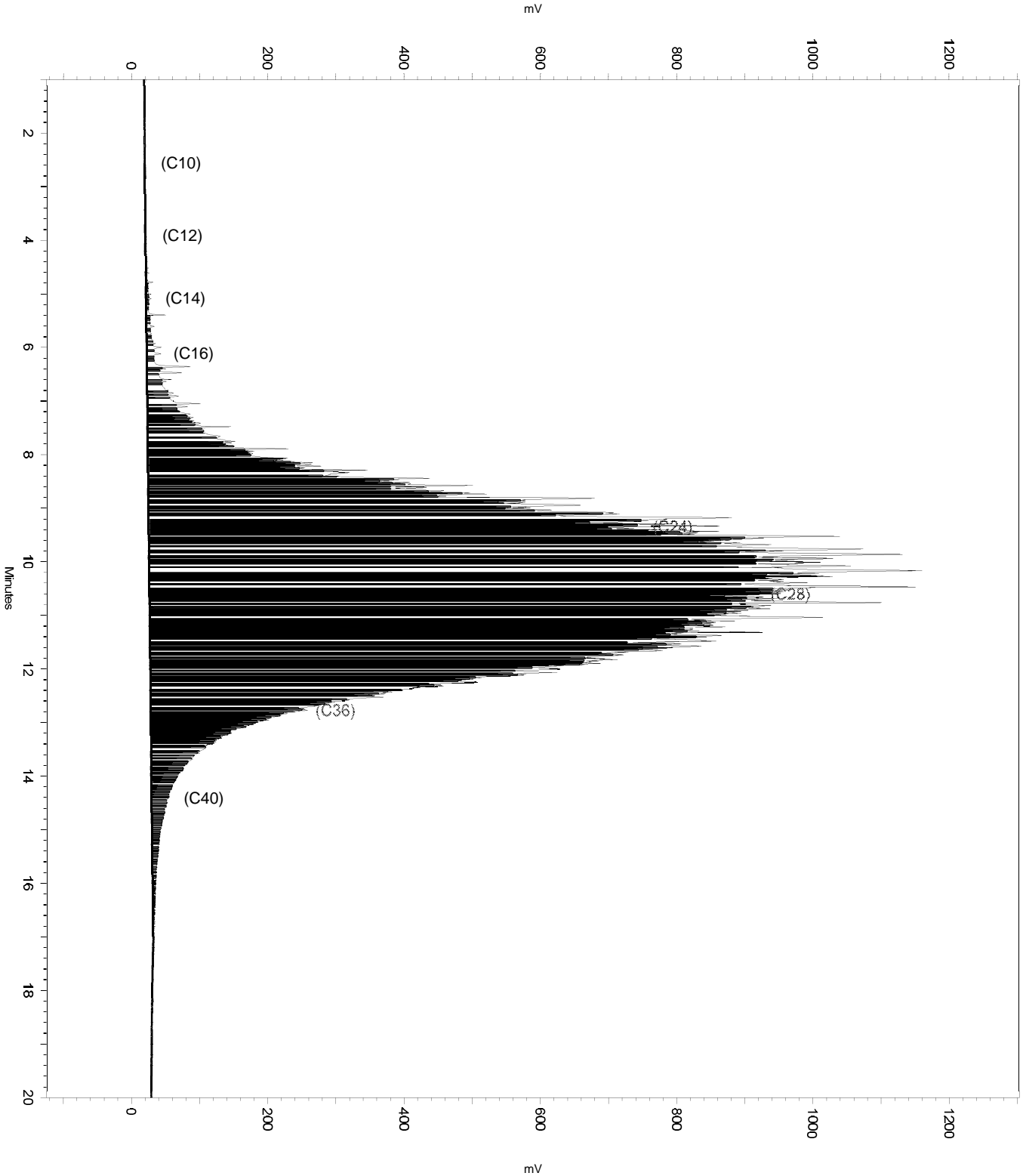
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Reset Baseline	16.164	0	0

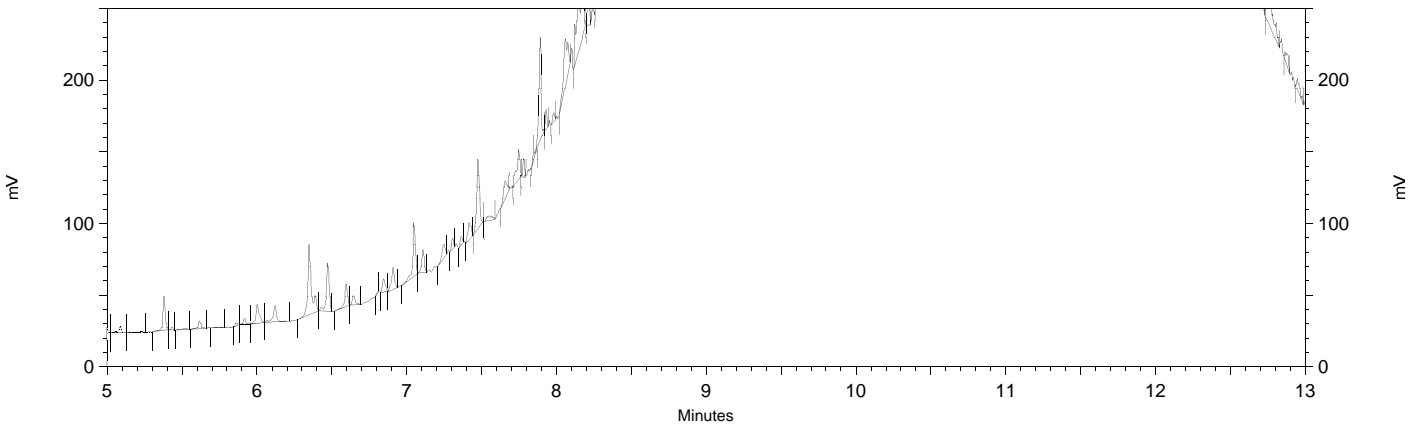
Sample Name: ical,s38765,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b007
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 1:54:31 PM
Analysis Date: 1/10/2019 6:18:19 PM
Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38765,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_008.met
 Run Date: 1/10/2019 1:54:31 PM
 Analysis Date: 1/10/2019 2:14:41 PM
 Instrument: GC14B Vial: 7 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.245	13993	0.313
Hexacosane	10.012	159921	4.478



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

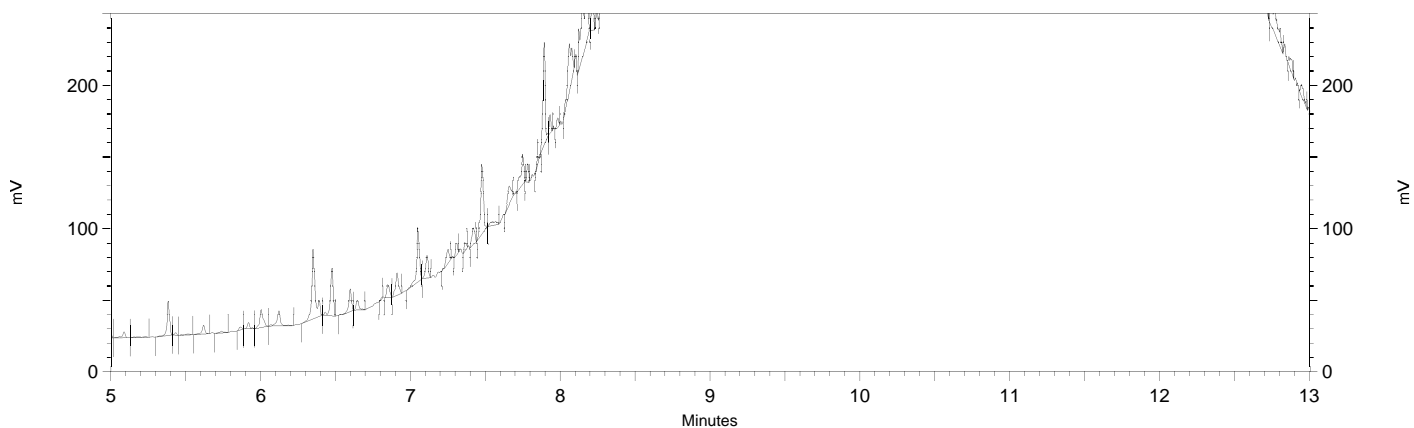
```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\010b007_B3AD.tmp
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

Sample Name: ical,s38765,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_010.met
 Run Date: 1/10/2019 1:54:31 PM
 Analysis Date: 1/10/2019 5:55:58 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.245	13993	0.000 CAL
Hexacosane	10.012	159921	0.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

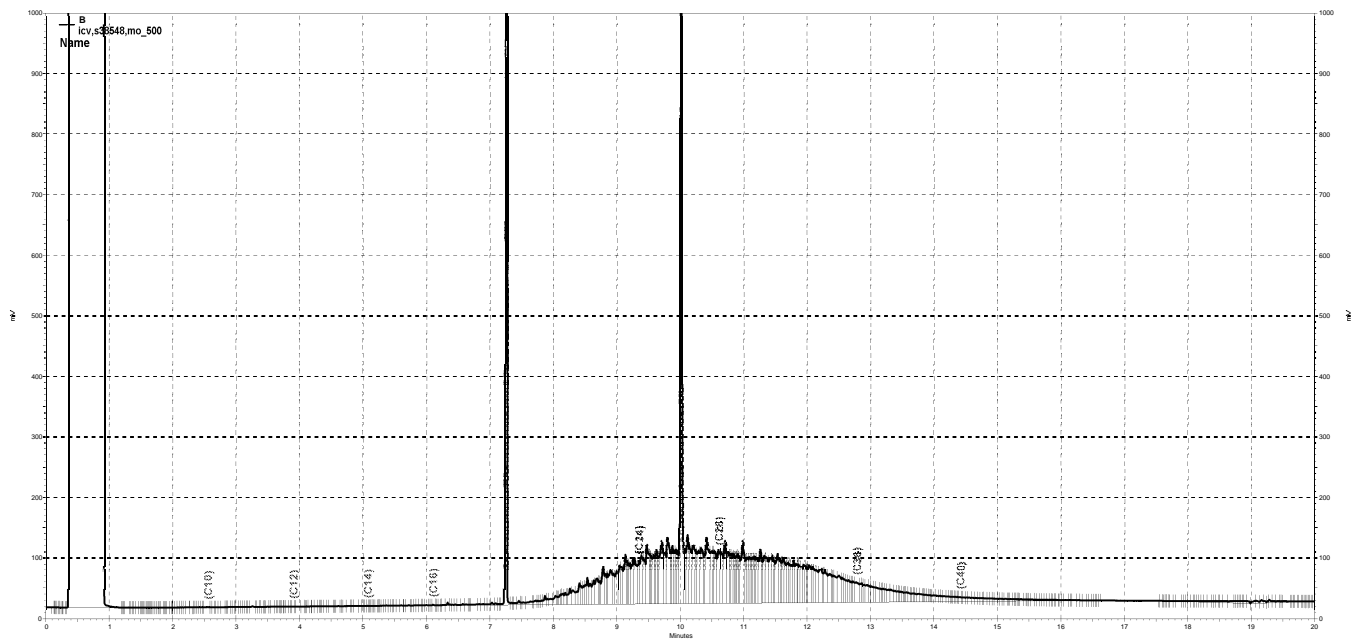
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b007
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



— \\kraken\drive\ezchrom\Projects\GC14B\Data\2019\010b009, B

Sample Name: icv,s38548,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 2:48:40 PM
 Analysis Date: 1/10/2019 6:23:27 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	44792	1.287
DSL:10-14	18690	1.305
DSL:10-22	3845243	101.085
DSL:10-24	6410099	164.659
DSL:10-28	14464512	368.172
DSL:12-24	6402639	189.669
DSL:12-28	14457052	423.777
DSL:14-24	6393524	244.154
DSL:16-24	6371078	352.455
MO:22-32	15962119	529.640
MO:24-36	16783164	530.585
MO:28-40	10112235	491.007
BUNKC:10-40	23875436	1163.539
BUNKC:12-40	23867976	1197.571

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

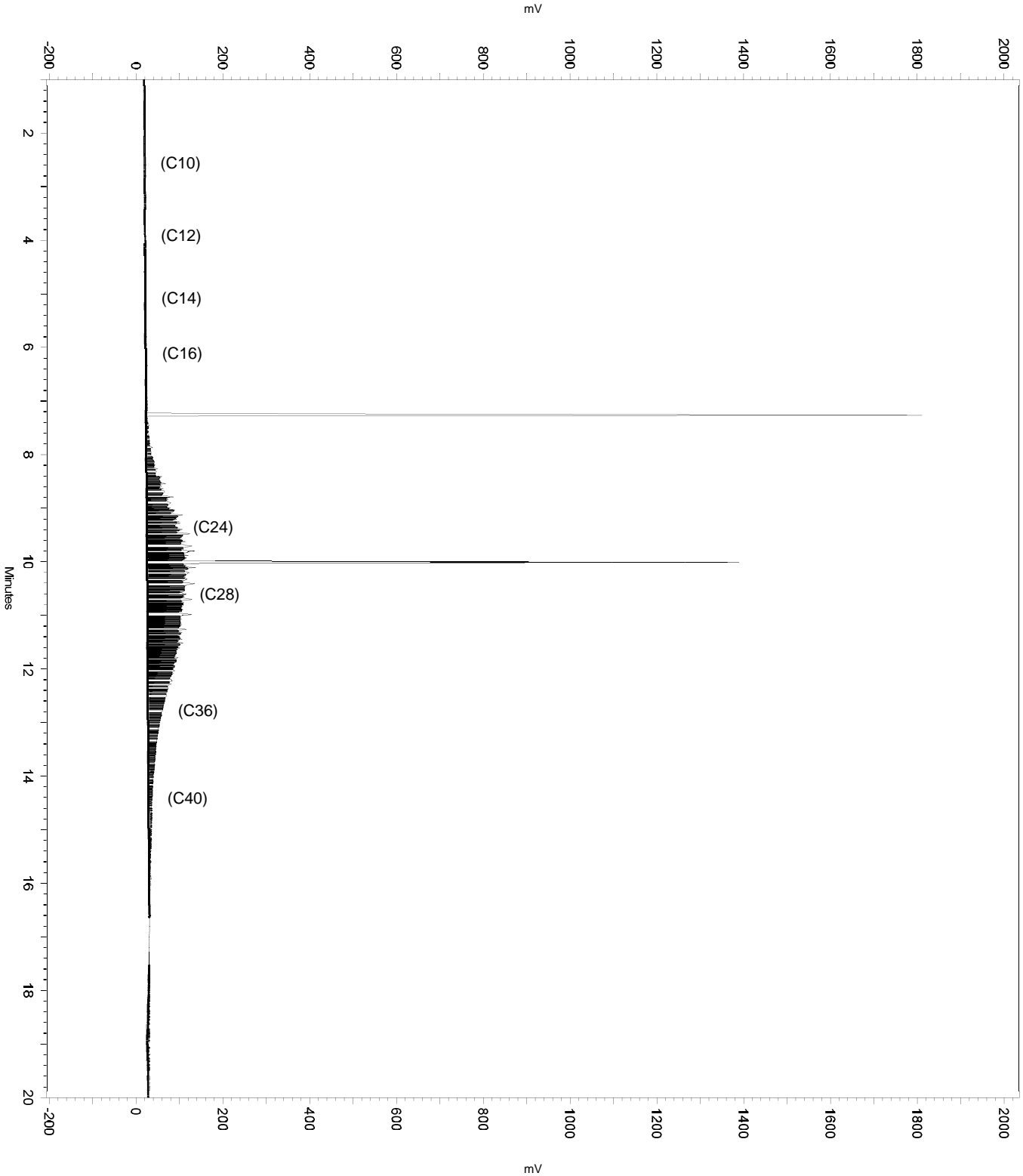
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.197	7.358	0
No	Split Peak	7.3	0	0
No	Manual Peak	9.97	10.255	0
No	Split Peak	10.059	0	0
Yes	Move BL Stop	17.522	16.628	0

Sample Name: icv,s38548,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b009
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 2:48:40 PM
Analysis Date: 1/10/2019 6:23:27 PM
Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: icv,s38548,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
 Run Date: 1/10/2019 2:48:40 PM
 Analysis Date: 1/10/2019 6:23:12 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	58077	1.669
DSL:10-14	21842	1.525
DSL:10-22	3912792	102.861
DSL:10-24	6500957	166.993
DSL:10-28	14602359	371.680
DSL:12-24	6493497	192.360
DSL:12-28	14594899	427.818
DSL:14-24	6482053	247.535
DSL:16-24	6450530	356.851
MO:22-32	16088819	533.844
MO:24-36	16944412	535.683
MO:28-40	10327635	501.466
BUNKC:10-40	24222676	1180.461
BUNKC:12-40	24215216	1214.994

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

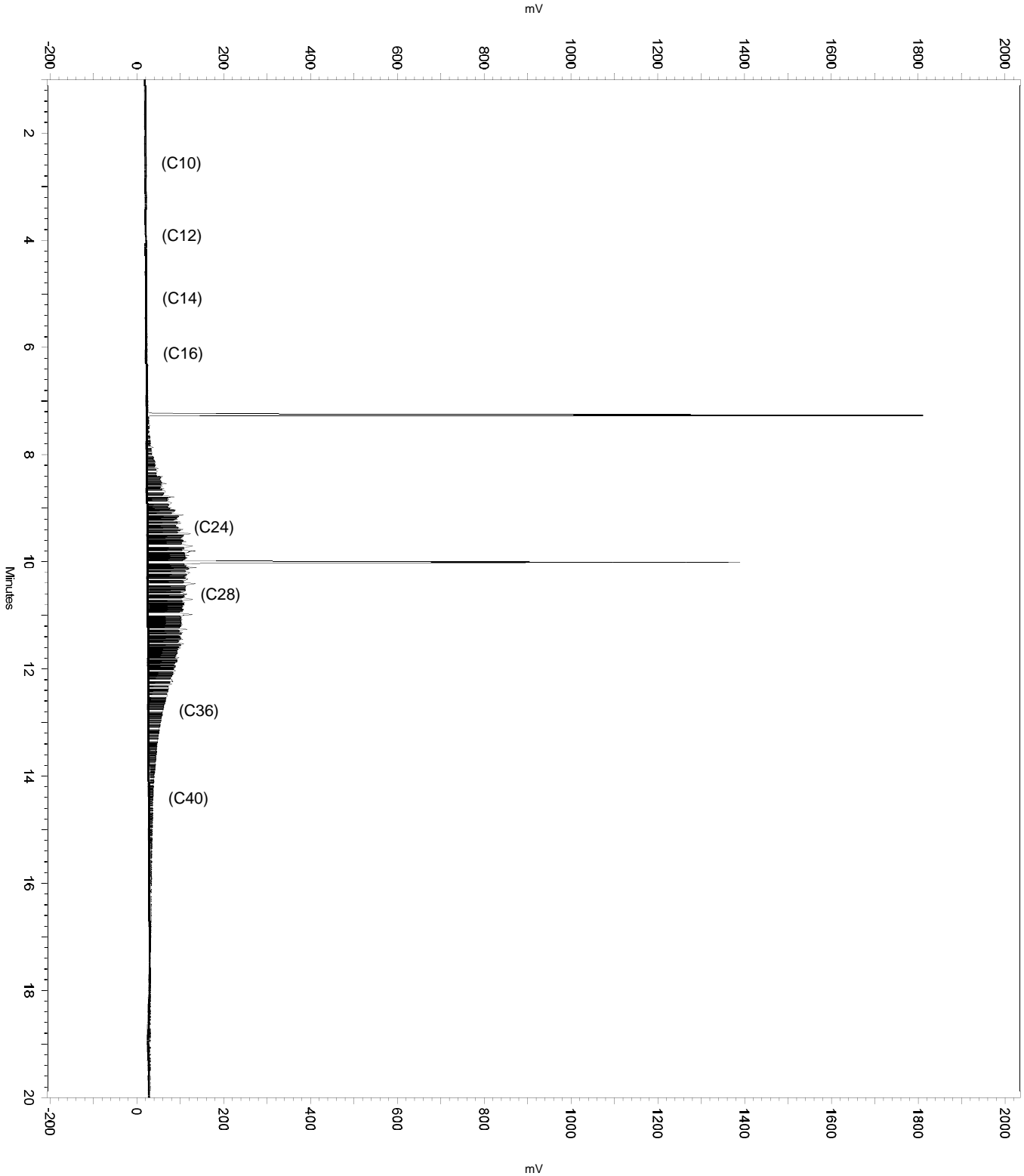
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Force Peak Stop     2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b009
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Peak          7.197     7.358     0
No Split Peak           7.3        0          0
No Manual Peak          9.97      10.255    0
No Split Peak          10.059     0          0
  
```

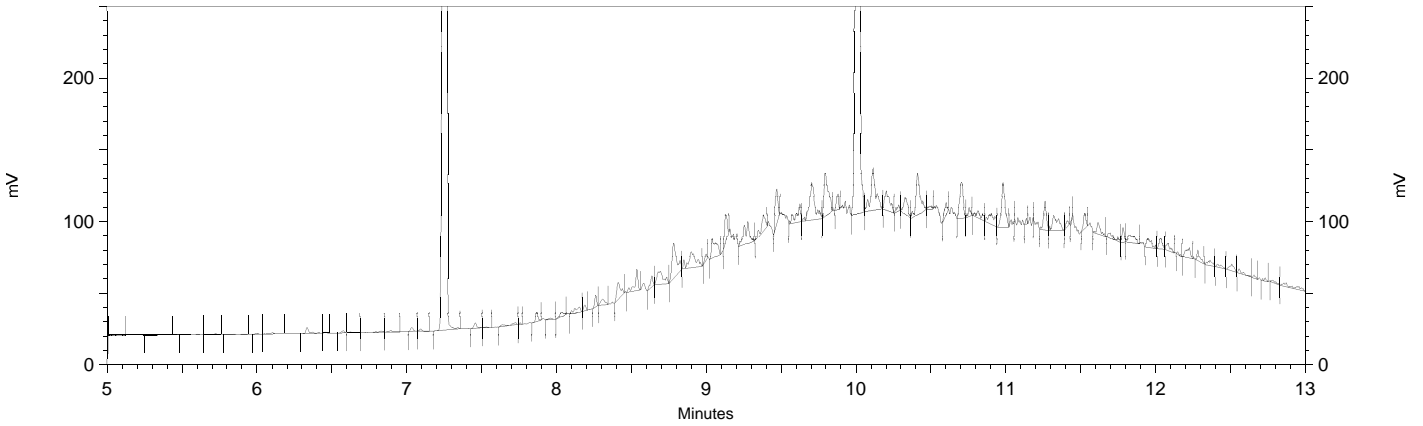
Sample Name: icv,s38548,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b009
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_010.met
Run Date: 1/10/2019 2:48:40 PM
Analysis Date: 1/10/2019 6:23:12 PM
Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: icv,s38548,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_008.met
 Run Date: 1/10/2019 2:48:40 PM
 Analysis Date: 1/10/2019 3:08:49 PM
 Instrument: GC14B Vial: 9 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.265	2441815	54.534
Hexacosane	10.020	1754966	49.139



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

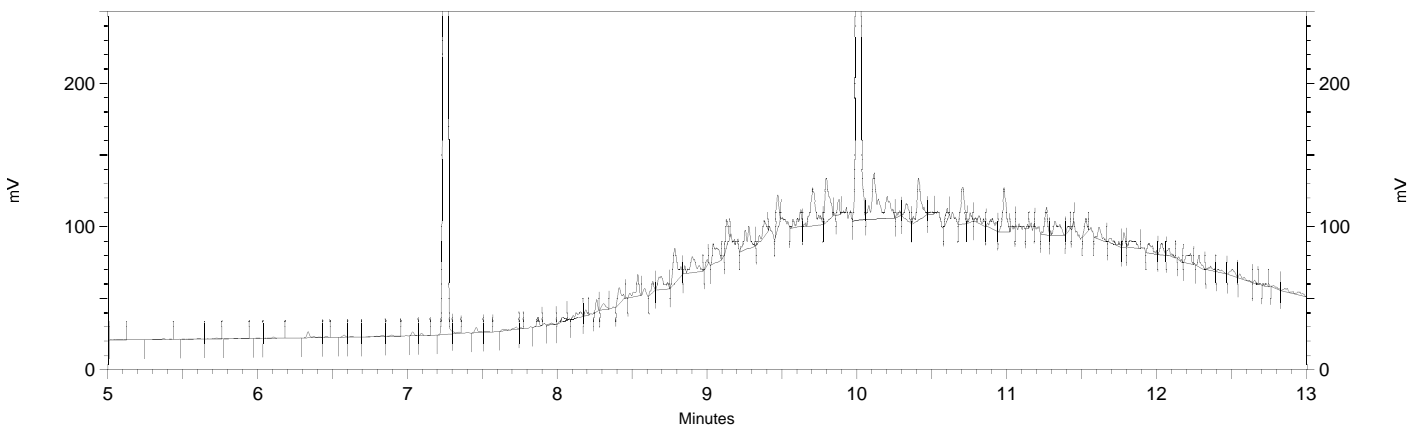
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\010b009_B3AF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: icv,s38548,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_010.met
 Run Date: 1/10/2019 2:48:40 PM
 Analysis Date: 1/10/2019 6:22:52 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.265	2438911	54.469
Hexacosane	10.020	1760704	49.300



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

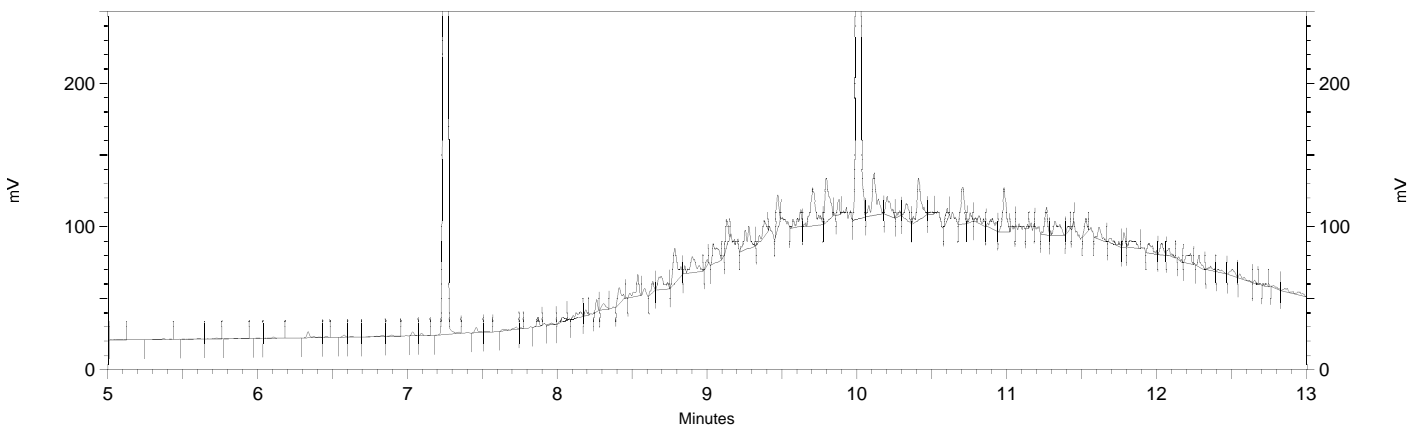
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.197	7.358	0
Yes	Split Peak	7.3	0	0
Yes	Manual Peak	9.97	10.255	0
Yes	Split Peak	10.059	0	0

Sample Name: icv,s38548,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\010.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_010.met
 Run Date: 1/10/2019 2:48:40 PM
 Analysis Date: 1/10/2019 6:22:20 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.265	2441815	54.534
Hexacosane	10.020	1754966	49.139



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\010b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229016966001
 Units : mg/L

Name : HEX OTP_011
 Date : 11-JAN-2019 19:14
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	011_002	229016966002	HEX OTP_2.5	11-JAN-2019 19:14	S38295 (2X)
L2	011_003	229016966003	HEX OTP_5	11-JAN-2019 19:41	S38295
L3	011_004	229016966004	HEX OTP_10	11-JAN-2019 20:08	S38296
L4	011_005	229016966005	HEX OTP_25	11-JAN-2019 20:35	S38297
L5	011_006	229016966006	HEX OTP_50	11-JAN-2019 21:02	S38299 (2X)
L6	011_007	229016966007	HEX OTP_100	11-JAN-2019 21:29	S38299

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	52872	54383	51075	50650	52824	51635	AVRG		1.91E-5		52240	3	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	1	5.0000	4	10.000	-2	25.000	-3	50.000	1	100.00	-1

TKY 01/14/19 : Corrected automatically drawn baseline in all levels.

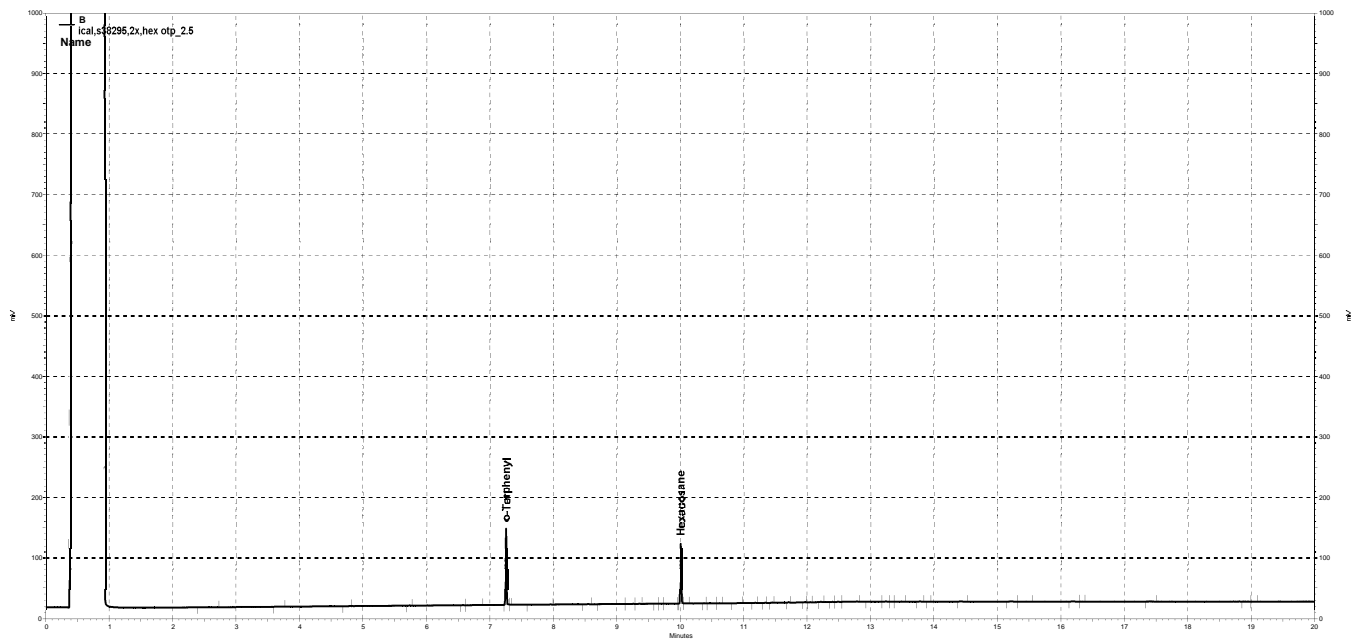
Analyst: TKY

Date: 01/14/19

Reviewer: AMP

Date: 01/14/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

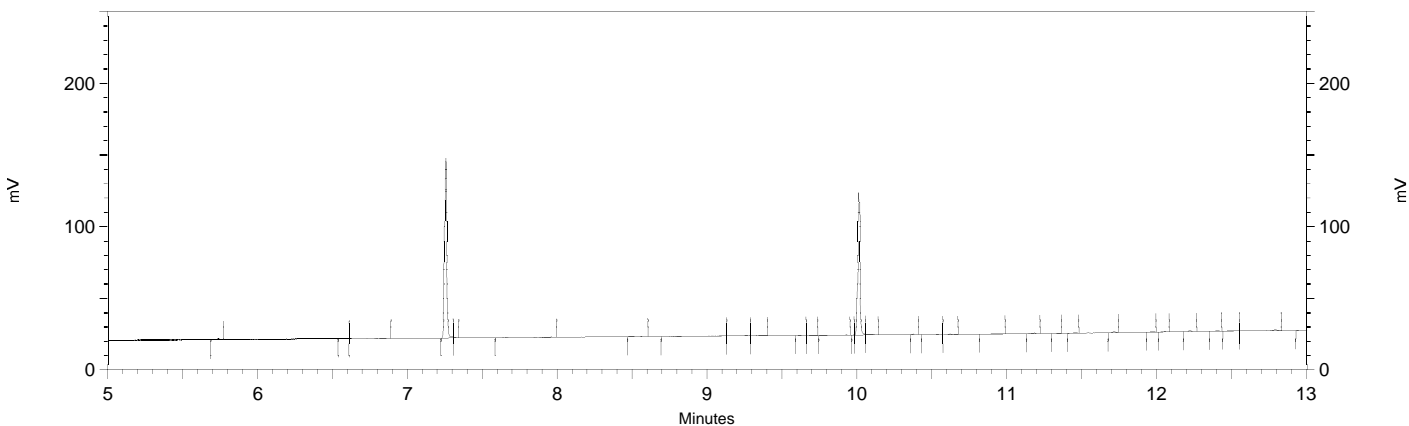


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b002, B

Sample Name: ical,s38295,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b002
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 7:14:01 PM
 Analysis Date: 1/14/2019 11:21:42 AM
 Instrument: GC14B Vial: 2 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.257	132181	2.500 CAL
Hexacosane	10.010	106095	2.500 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

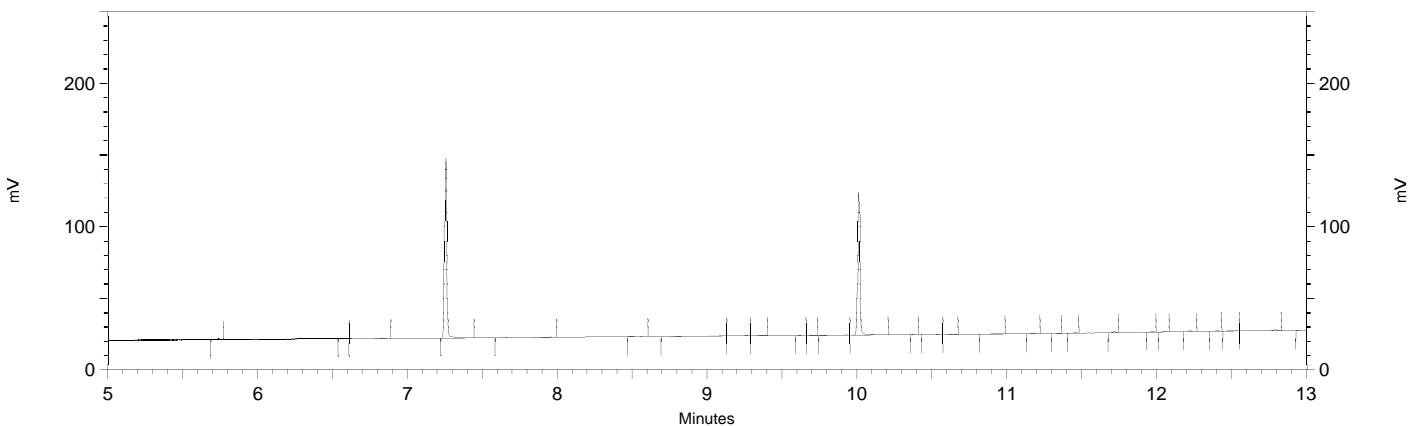
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.225	7.342	0
Yes	Split Peak	7.308	0	0
Yes	Manual Peak	9.965	10.141	0
Yes	Split Peak	9.98	0	0
Yes	Split Peak	10.057	0	0

Sample Name: ical,s38295,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b002
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 7:14:01 PM
 Analysis Date: 1/14/2019 11:07:31 AM
 Instrument: GC14B Vial: 2 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.257	134053	2.500 CAL
Hexacosane	10.010	108095	2.500 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

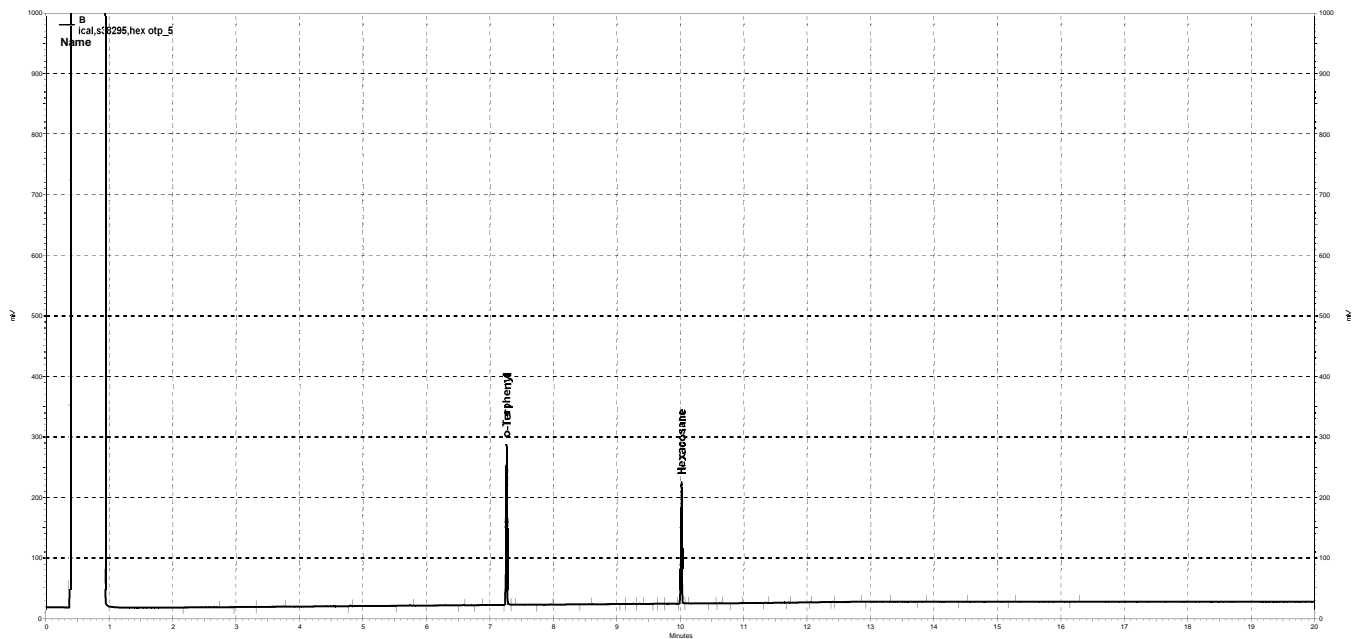
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

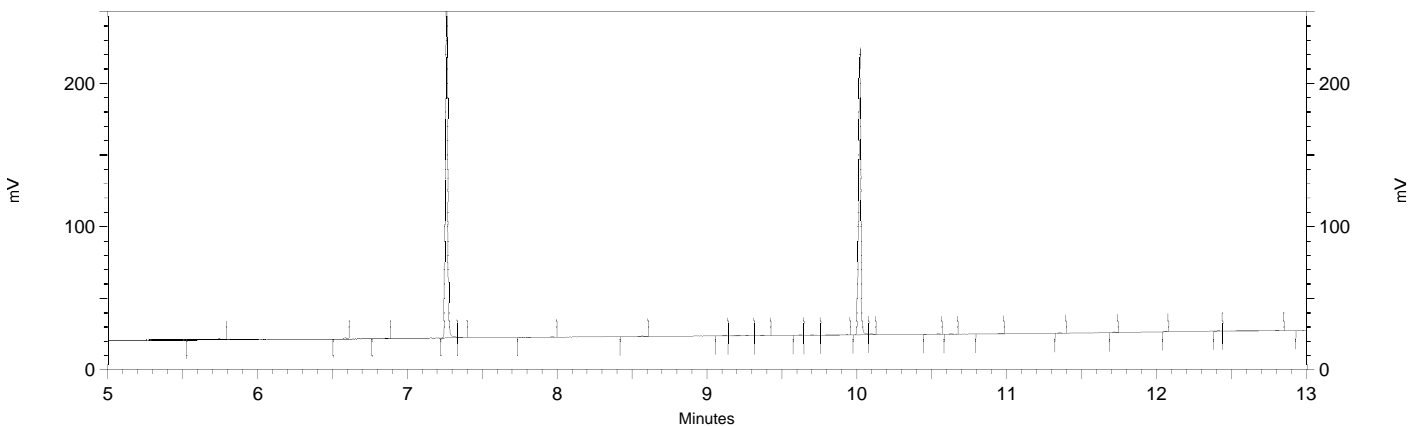


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b003, B

Sample Name: ical,s38295,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b003
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 7:41:18 PM
 Analysis Date: 1/14/2019 11:21:46 AM
 Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.262	271913	5.000 CAL
Hexacosane	10.017	219150	5.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

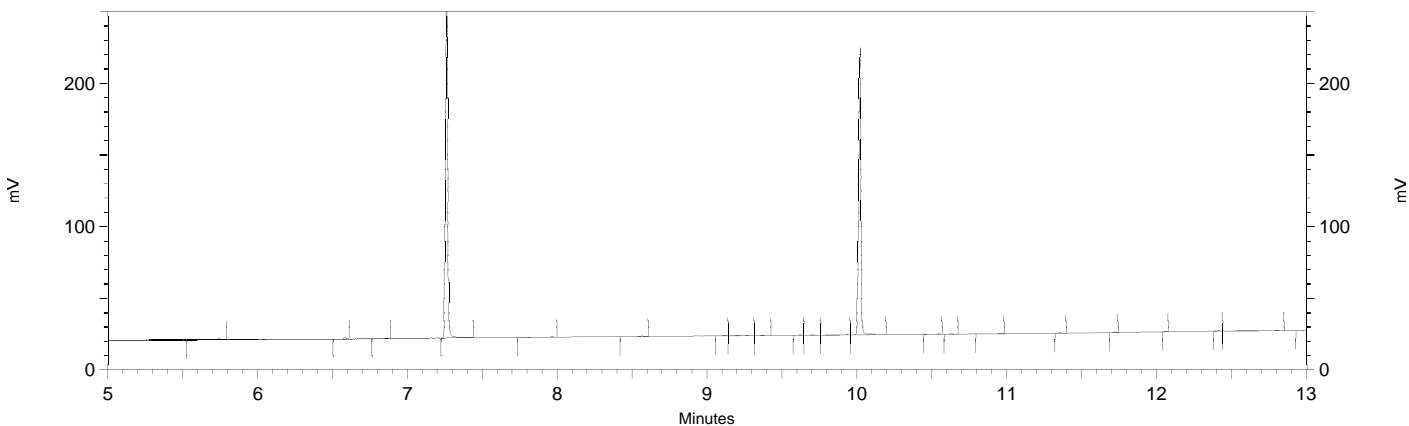
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.223	7.399	0
Yes	Split Peak	7.334	0	0
Yes	Manual Peak	9.972	10.125	0
Yes	Split Peak	10.078	0	0

Sample Name: ical,s38295,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b003
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 7:41:18 PM
 Analysis Date: 1/14/2019 11:08:20 AM
 Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.262	273121	5.000 CAL
Hexacosane	10.017	221017	5.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

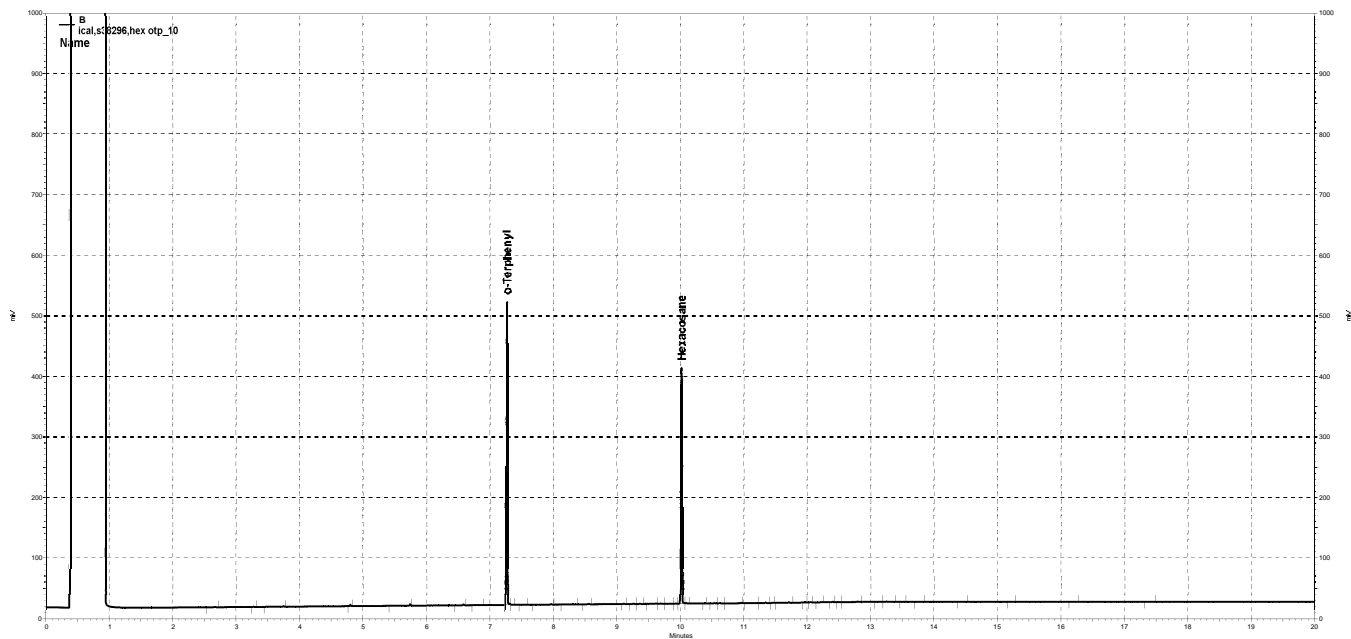
```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

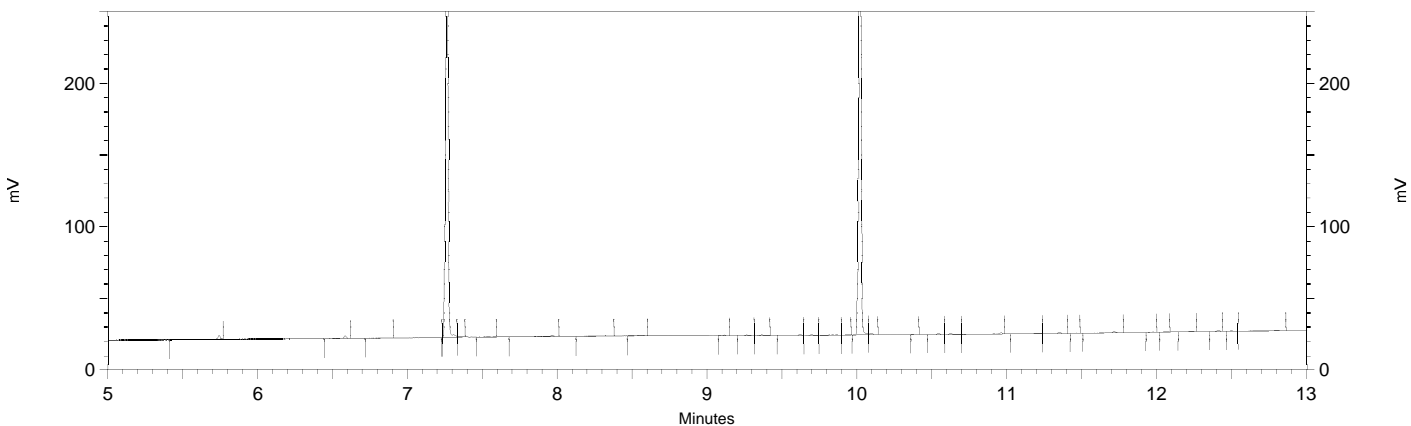


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b004, B

Sample Name: ical,s38296,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 8:08:14 PM
 Analysis Date: 1/14/2019 11:21:50 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.267	510752	10.000 CAL
Hexacosane	10.020	412092	10.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off      0          2     0
Yes Valley to Valley     0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

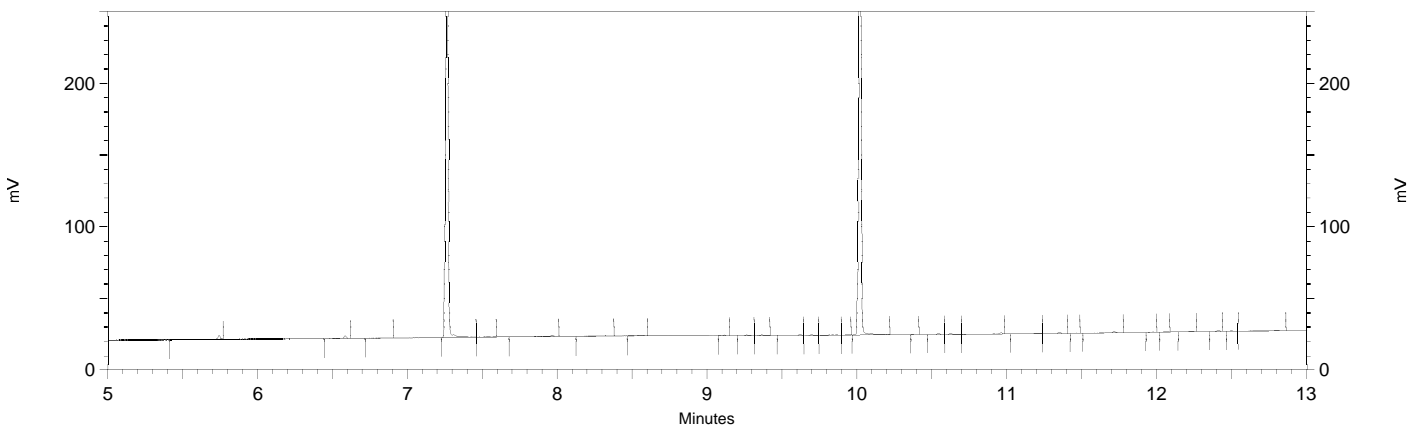
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b004
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Manual Peak         7.227      7.385    0
Yes Split Peak          7.232      0         0
Yes Split Peak          7.332      0         0
Yes Manual Peak         9.967     10.14    0
Yes Split Peak         10.078     0         0
  
```

Sample Name: ical,s38296,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 8:08:14 PM
 Analysis Date: 1/14/2019 11:09:02 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.267	512803	10.000 CAL
Hexacosane	10.020	414804	10.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

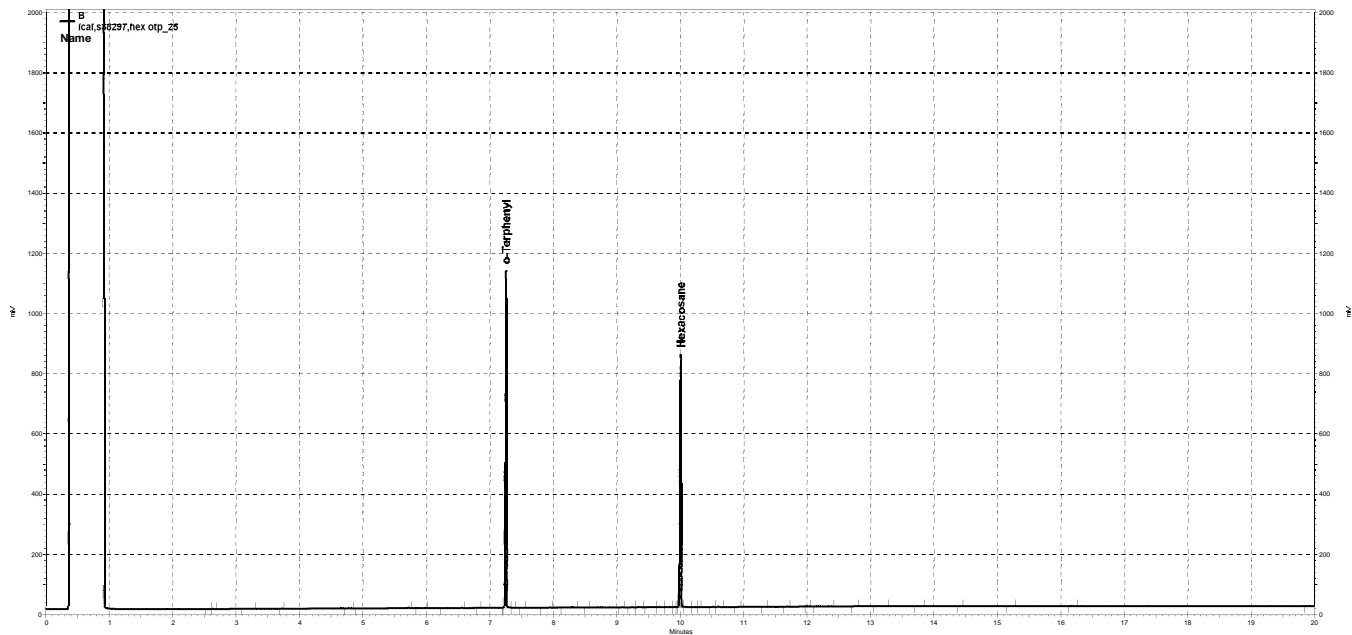
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b004
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

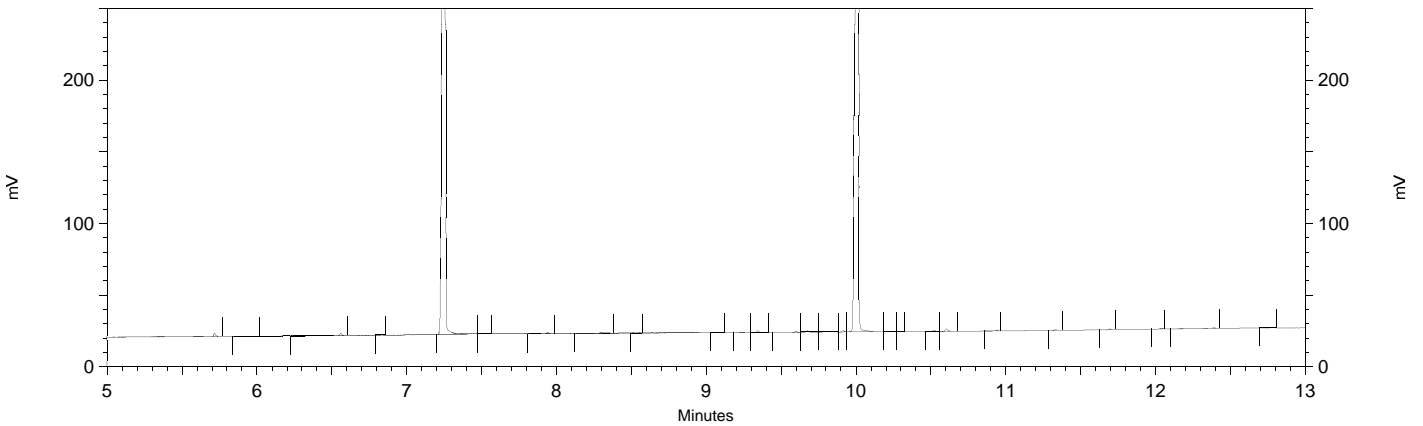


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b005, B

Sample Name: ical,s38297,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_010.met
 Run Date: 1/11/2019 8:35:10 PM
 Analysis Date: 1/11/2019 8:55:20 PM
 Instrument: GC14B Vial: 5 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.253	1268470	28.329
Hexacosane	10.007	1025964	28.727



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

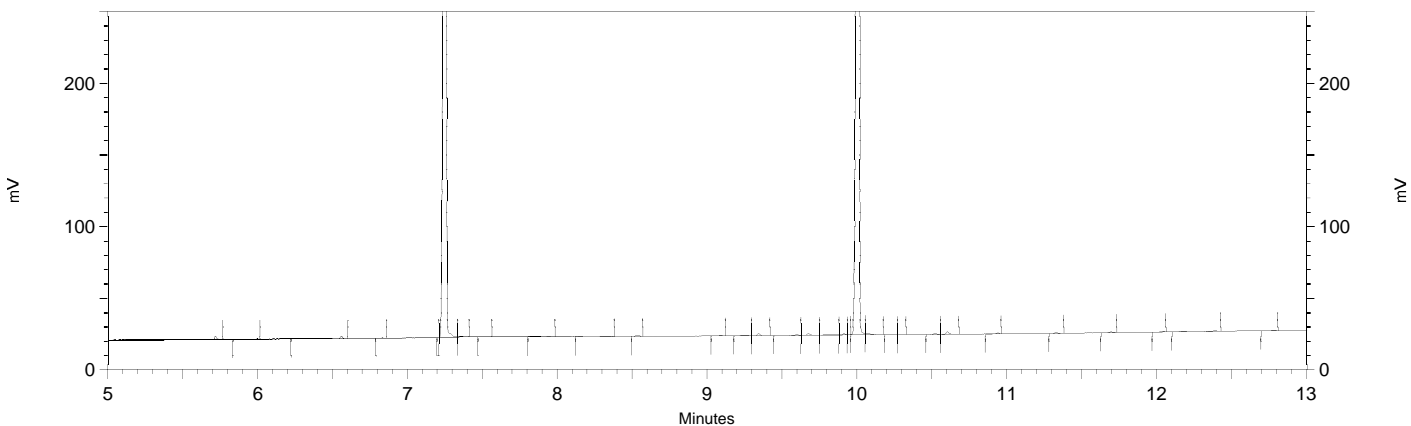
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\011b005_B3EC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s38297,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 8:35:10 PM
 Analysis Date: 1/14/2019 11:21:54 AM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.253	1266260	25.000 CAL
Hexacosane	10.007	1023414	25.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

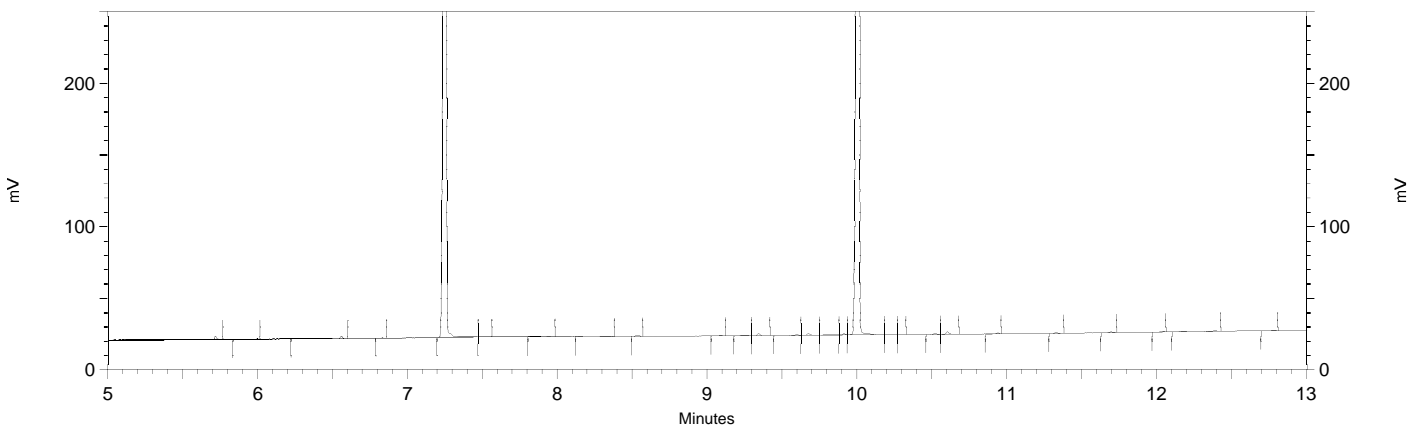
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.2	7.412	0
Yes	Split Peak	7.21	0	0
Yes	Split Peak	7.335	0	0
Yes	Manual Peak	9.937	10.176	0
Yes	Split Peak	9.959	0	0
Yes	Split Peak	10.057	0	0

Sample Name: ical,s38297,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 8:35:10 PM
 Analysis Date: 1/14/2019 11:10:04 AM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.253	1268470	25.000 CAL
Hexacosane	10.007	1025964	25.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

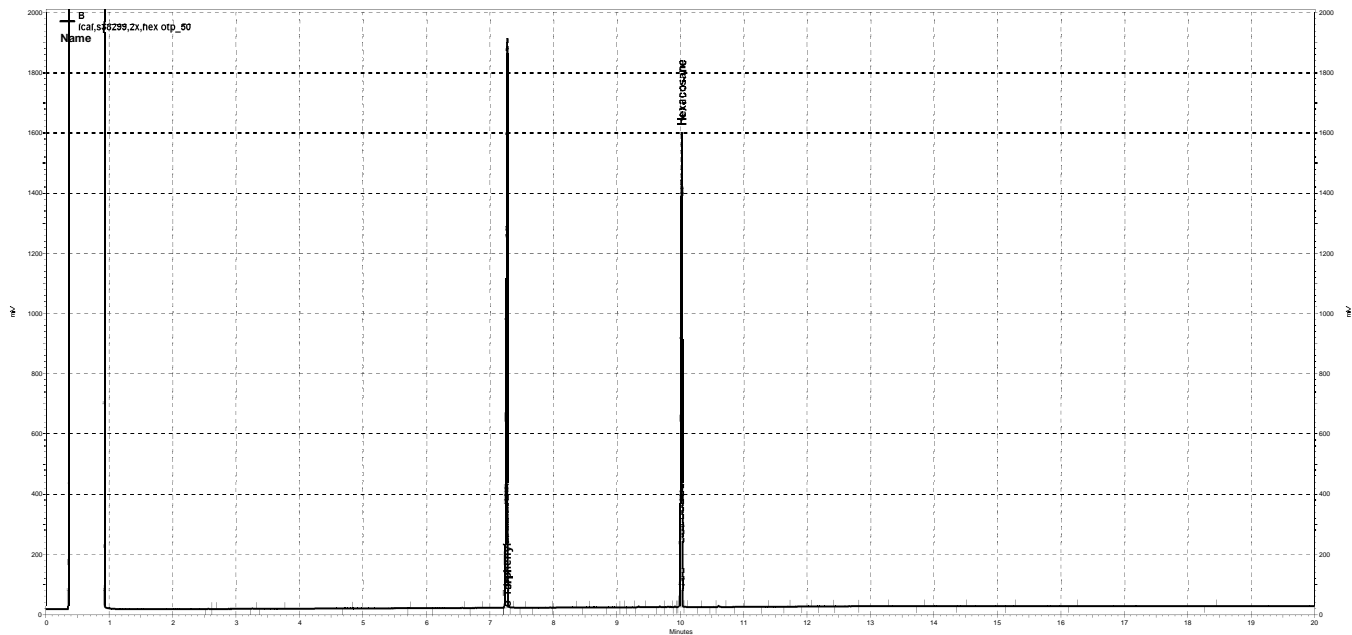
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b005
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

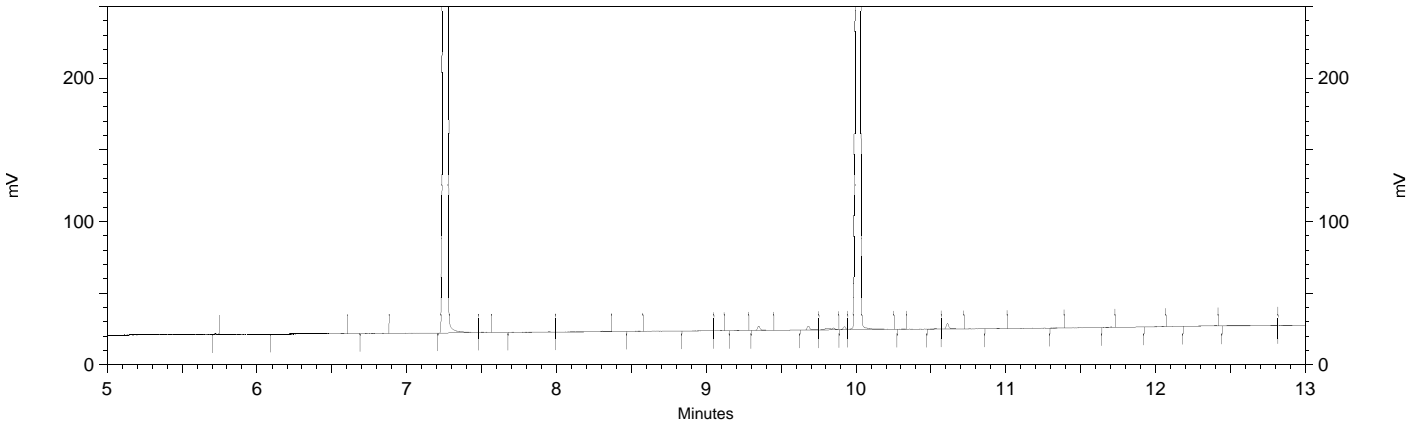


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b006, B

Sample Name: ical,s38299,2x,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b006
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_010.met
 Run Date: 1/11/2019 9:02:14 PM
 Analysis Date: 1/11/2019 9:22:24 PM
 Instrument: GC14B Vial: 6 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.270	2646517	59.106
Hexacosane	10.023	2137116	59.840



 << General Method Parameters >>-----

No items selected for this section

 << B >>-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

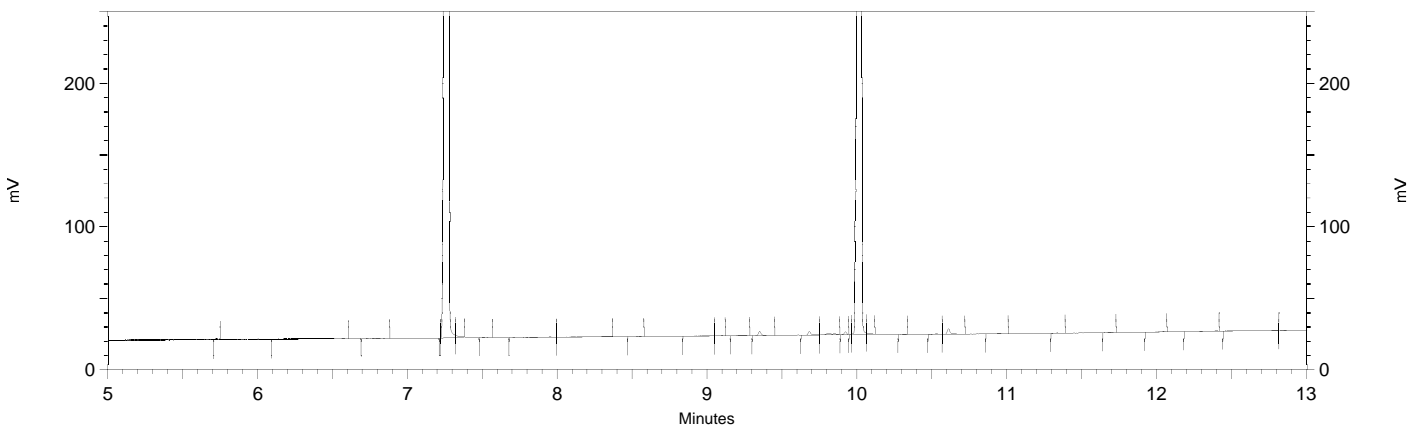
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\011b006_B3ED.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s38299,2x,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b006
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 9:02:14 PM
 Analysis Date: 1/14/2019 11:21:58 AM
 Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.270	2641219	50.000 CAL
Hexacosane	10.023	2133892	50.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

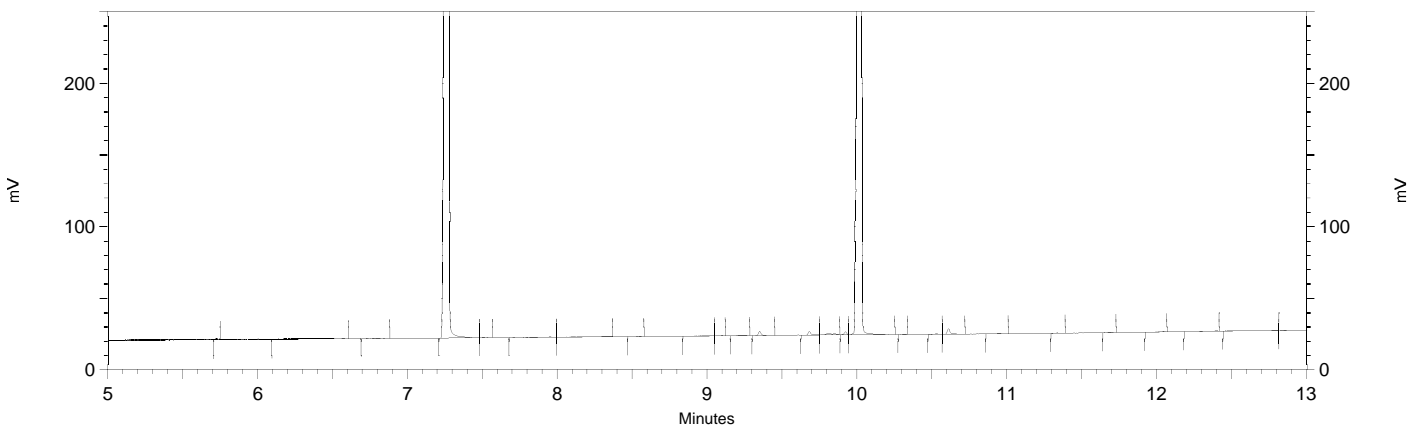
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.212	7.378	0
Yes	Split Peak	7.218	0	0
Yes	Split Peak	7.32	0	0
Yes	Manual Peak	9.945	10.119	0
Yes	Split Peak	9.965	0	0
Yes	Split Peak	10.062	0	0

Sample Name: ical,s38299,2x,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b006
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 9:02:14 PM
 Analysis Date: 1/14/2019 11:11:07 AM
 Instrument: GC14B Vial: 6 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.270	2646517	50.000 CAL
Hexacosane	10.023	2137116	50.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

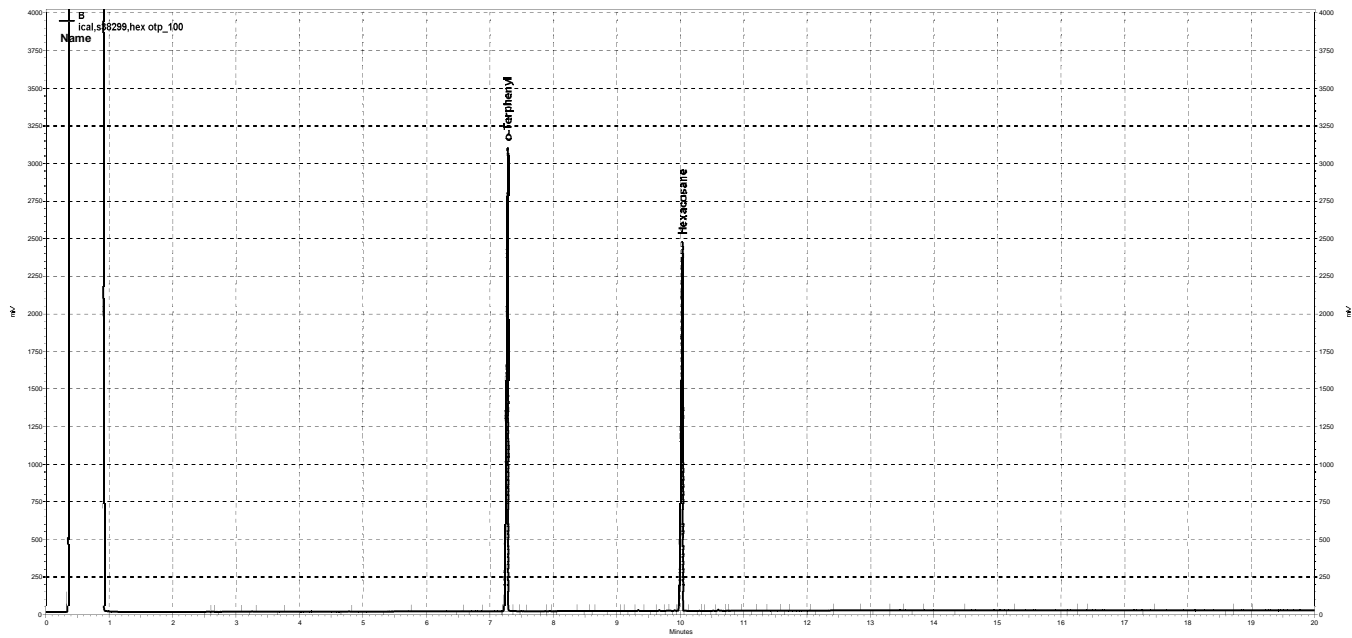
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

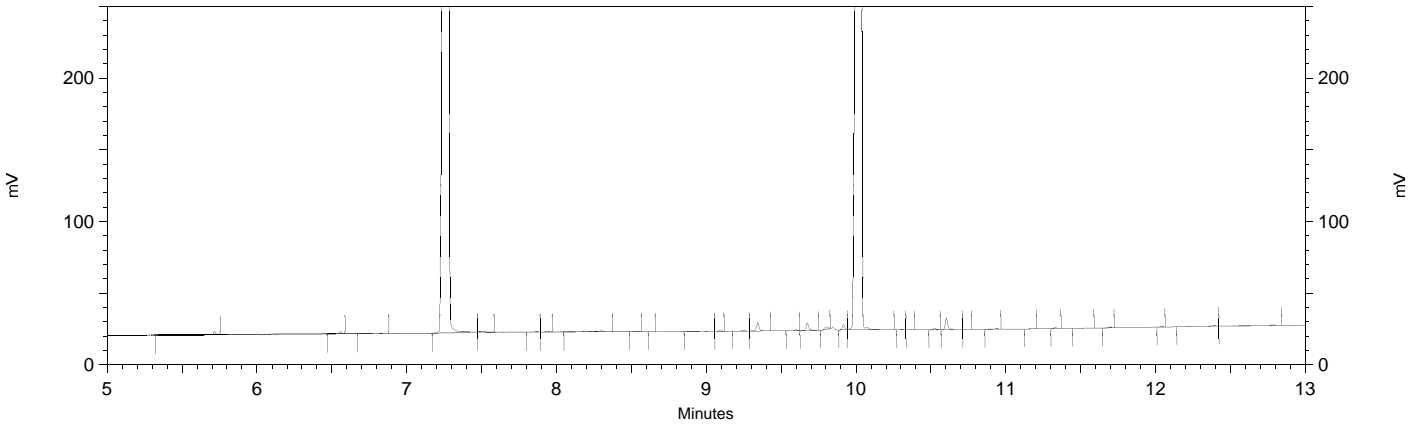


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b007, B

Sample Name: ical,s38299,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_010.met
 Run Date: 1/11/2019 9:29:05 PM
 Analysis Date: 1/11/2019 9:49:14 PM
 Instrument: GC14B Vial: 7 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.278	5165966	115.373
Hexacosane	10.032	4145230	116.067



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

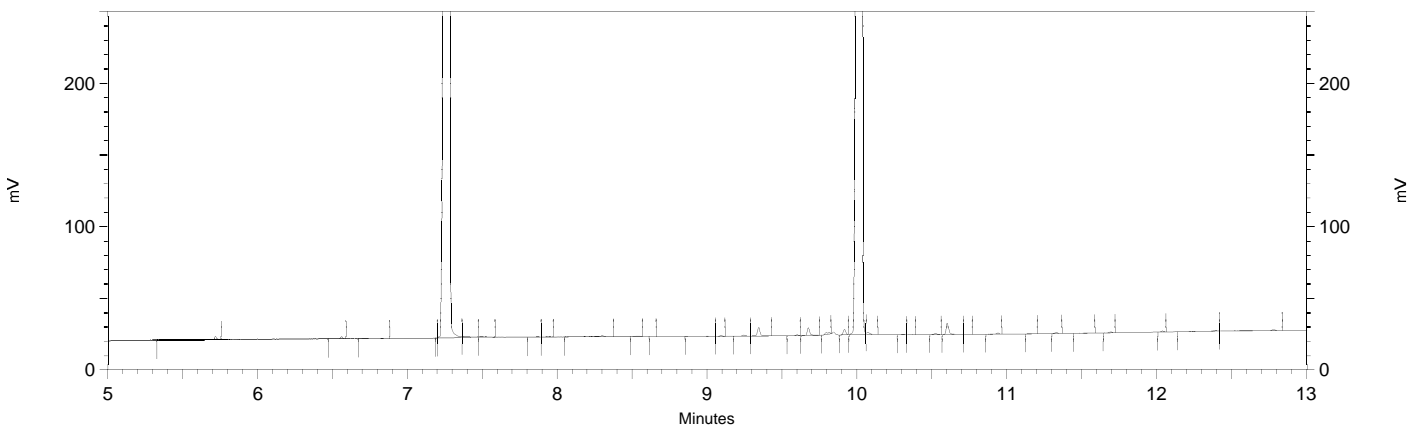
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\011b007_B3EE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s38299,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 9:29:05 PM
 Analysis Date: 1/14/2019 11:22:02 AM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.278	5163459	100.000 CAL
Hexacosane	10.032	4142071	100.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

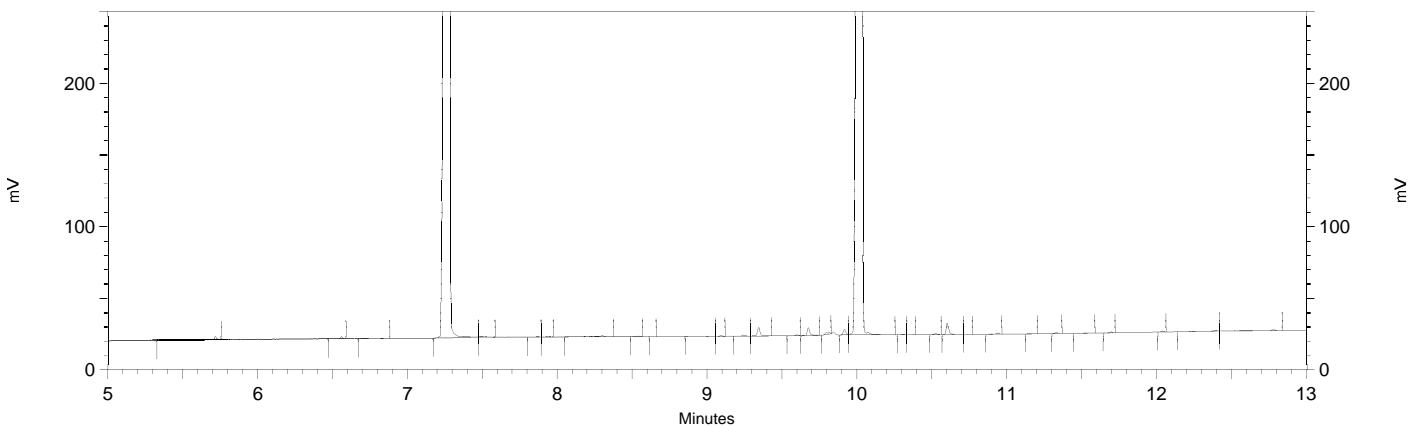
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.185	7.473	0
Yes	Split Peak	7.198	0	0
Yes	Split Peak	7.363	0	0
Yes	Manual Peak	9.946	10.137	0
Yes	Split Peak	10.06	0	0

Sample Name: ical,s38299,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\011.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_011.met
 Run Date: 1/11/2019 9:29:05 PM
 Analysis Date: 1/14/2019 11:12:04 AM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.278	5165966	100.000 CAL
Hexacosane	10.032	4145230	100.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\011b007
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229036718001
 Units : mg/L

Name : GC14B_DSL_025
 Date : 25-JAN-2019 15:20
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	025_007	229036718007	DSL_10	25-JAN-2019 15:20	S38234
L2	025_008	229036718008	DSL_100	25-JAN-2019 15:46	S38235
L3	025_009	229036718009	DSL_500	25-JAN-2019 16:13	S38236
L4	025_010	229036718010	DSL_1000	25-JAN-2019 16:40	S38237
L5	025_011	229036718011	DSL_5000	25-JAN-2019 17:07	S38233

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	48614	39844	43409	39441	39090	AVRG		2.38E-5		42080	10	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	16	100.00	-5	500.00	3	1000.0	-6	5000.0	-7

TKY 01/28/19 : Corrected automatically drawn baseline in DSL_10 (025_007).
 TKY 01/28/19 : Corrected automatically drawn baseline in DSL_100 (025_008).
 TKY 01/28/19 : Corrected automatically drawn baseline in DSL_1000 (025_010).

Analyst: TKY Date: 01/28/19 Reviewer: EAH Date: 01/28/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 229036718001

Name : GC14B_DSL_025
Cal Date : 25-JAN-2019

ICV 229036718013 (025_013 25-JAN-2019) stds: S39005

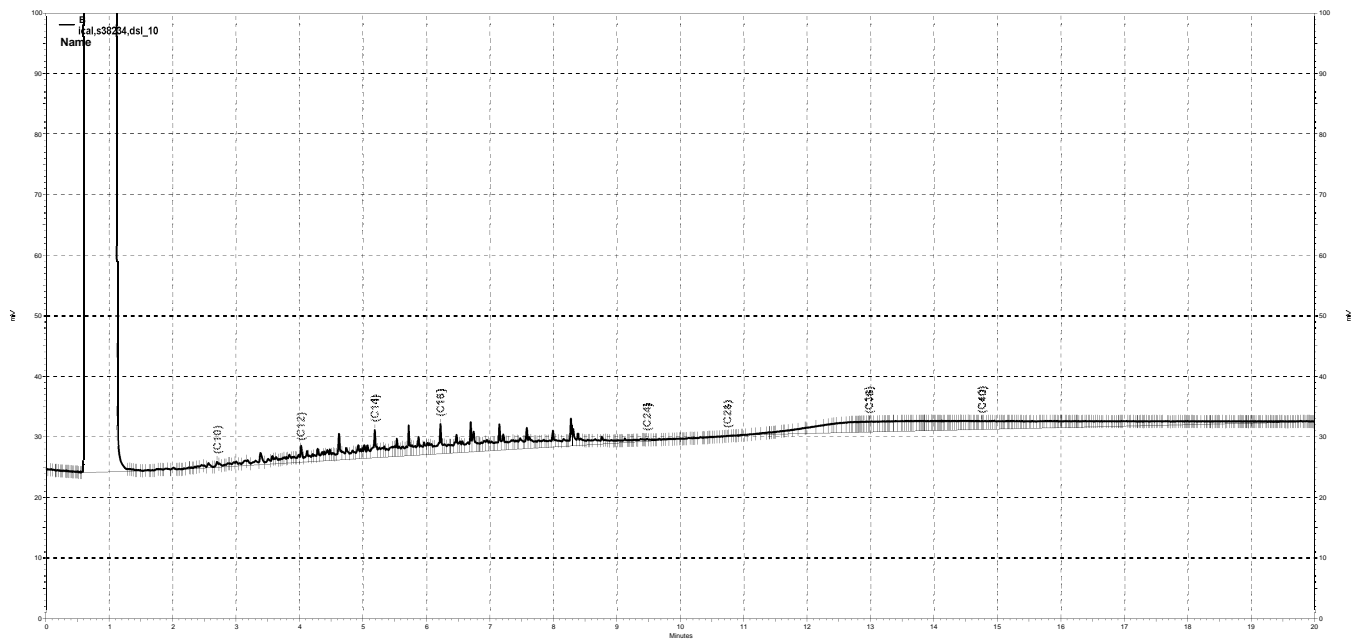
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	435.2	mg/L	-13	15	

Analyst: VO

Date: 01/27/19

Reviewer: EAH

Date: 01/28/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b007, B

Sample Name: ical,s38234,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b007
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
 Run Date: 1/25/2019 3:20:02 PM
 Analysis Date: 1/27/2019 2:12:18 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	261610	0.000 CAL
DSL:10-14	159109	10.000 CAL
DSL:10-22	468820	10.000 CAL
DSL:10-24	486138	10.000 CAL
DSL:10-28	497994	10.000 CAL
DSL:12-24	435870	10.000 CAL
DSL:12-28	447726	10.000 CAL
DSL:14-24	345248	10.000 CAL
DSL:16-24	244299	10.000 CAL
MO:22-32	53414	0.000 CAL
MO:24-36	102780	0.000 CAL
MO:28-40	149859	0.000 CAL
BUNKC:10-40	646791	0.000 CAL
BUNKC:12-40	596523	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

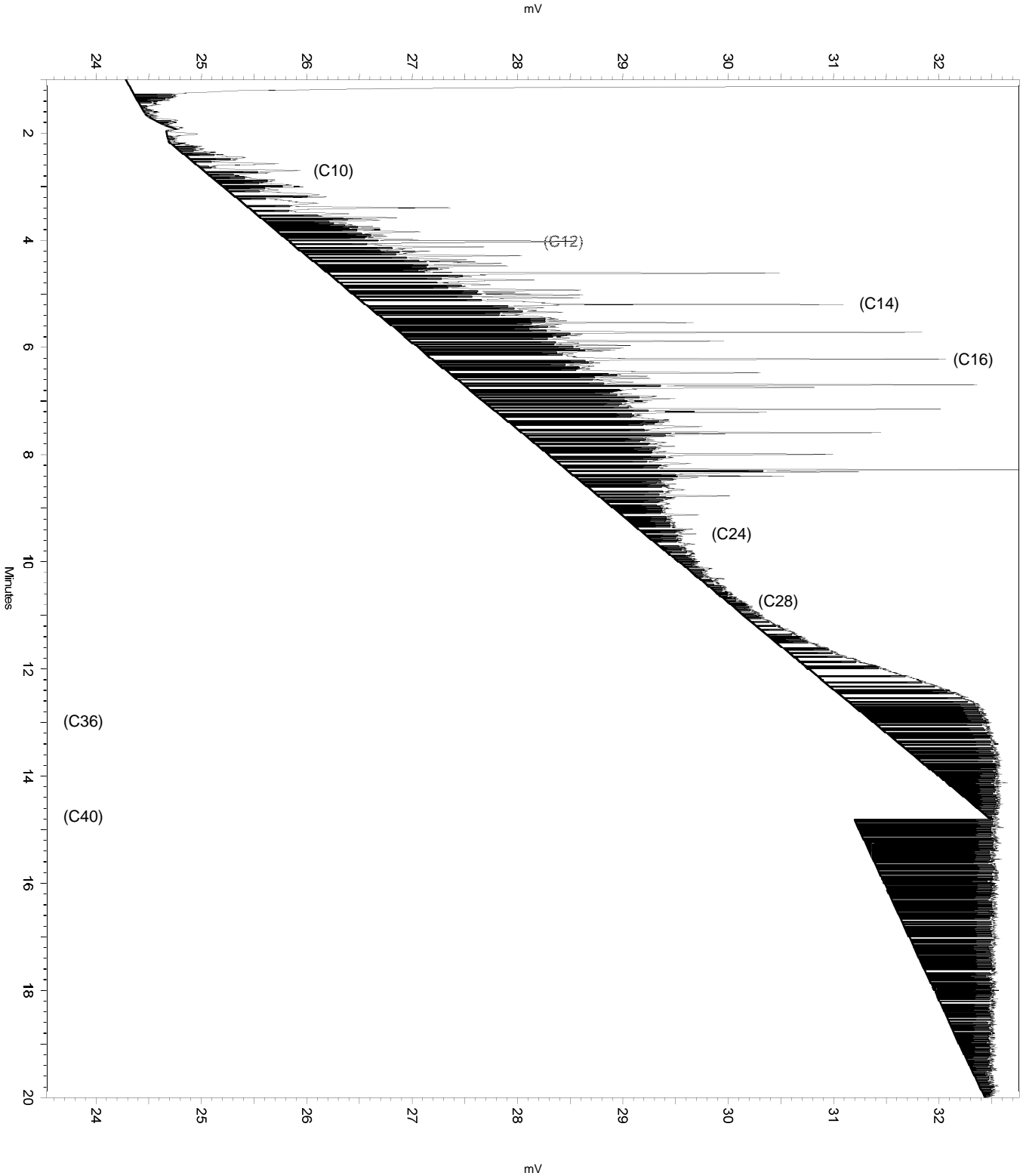
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	10.277	14.816	0

Sample Name: ical,s38234,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b007
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
Run Date: 1/25/2019 3:20:02 PM
Analysis Date: 1/27/2019 2:12:18 PM
Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38234,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b007
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
 Run Date: 1/25/2019 3:20:02 PM
 Analysis Date: 1/27/2019 1:56:24 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	257982	0.000 CAL
DSL:10-14	157096	10.000 CAL
DSL:10-22	459332	10.000 CAL
DSL:10-24	474627	10.000 CAL
DSL:10-28	481878	10.000 CAL
DSL:12-24	424979	10.000 CAL
DSL:12-28	432230	10.000 CAL
DSL:14-24	335538	10.000 CAL
DSL:16-24	236093	10.000 CAL
MO:22-32	46678	0.000 CAL
MO:24-36	127312	0.000 CAL
MO:28-40	282101	0.000 CAL
BUNKC:10-40	763550	0.000 CAL
BUNKC:12-40	713902	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

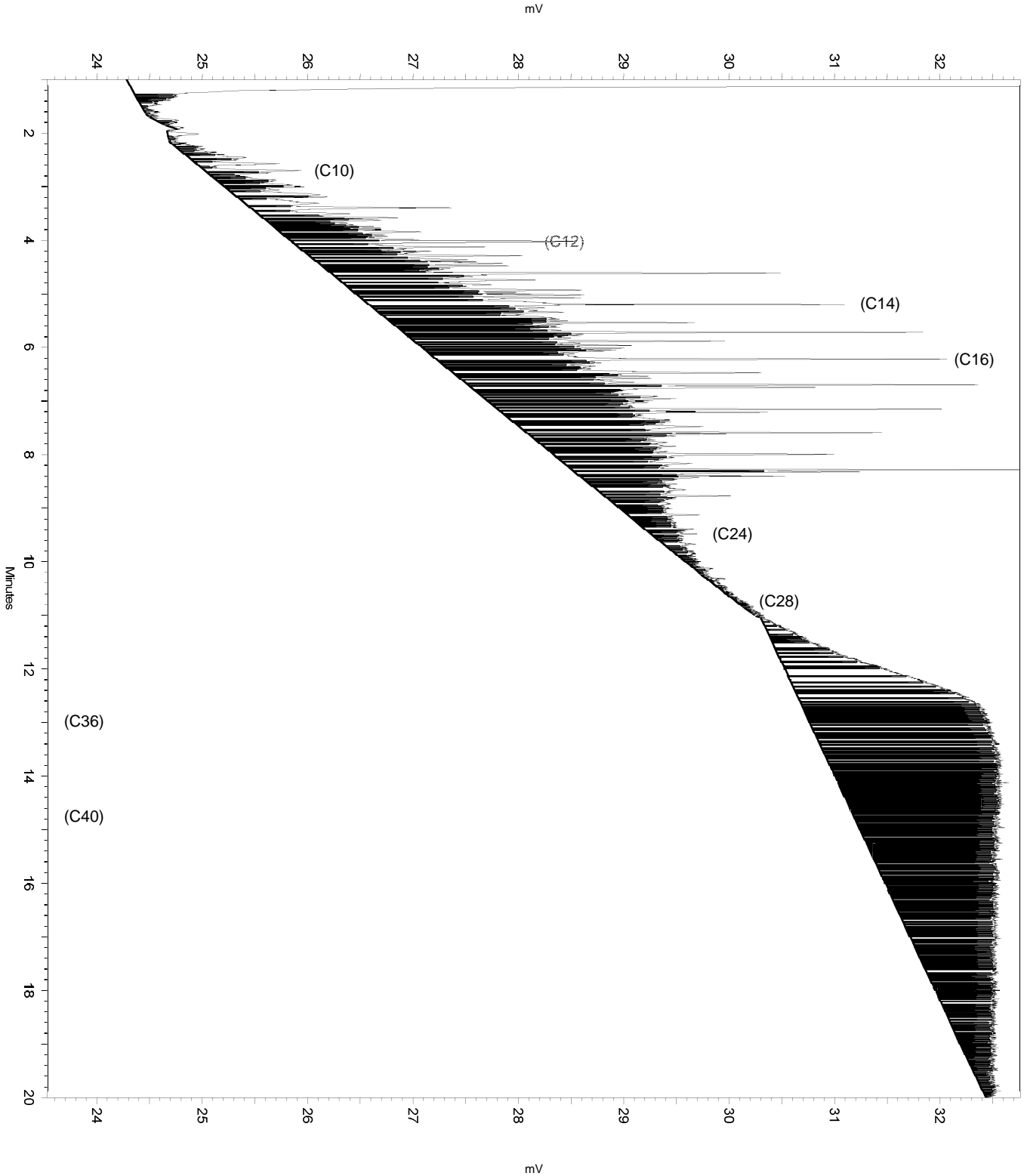
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

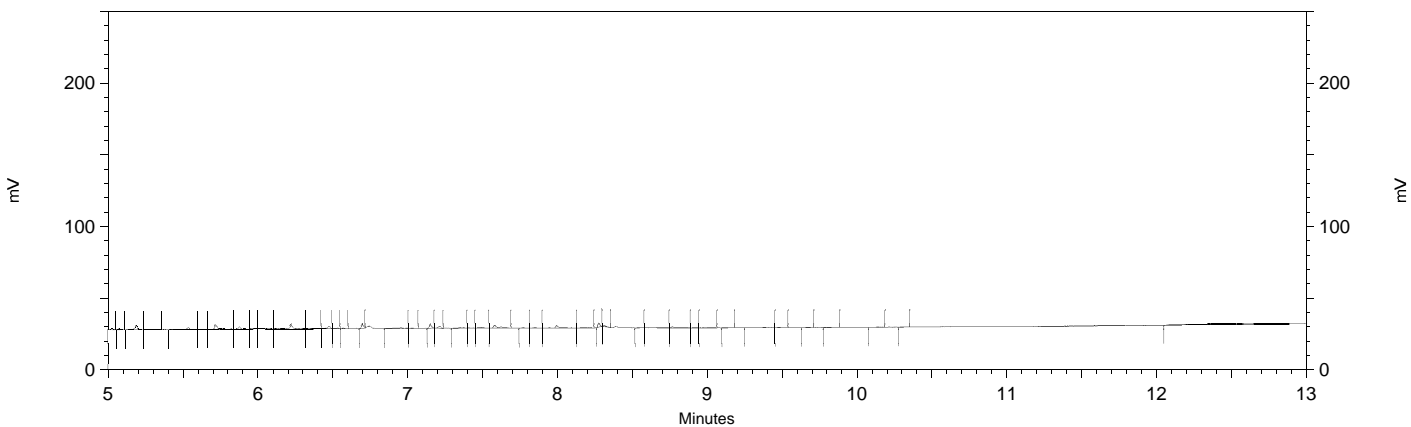
Sample Name: ical,s38234,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b007
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
Run Date: 1/25/2019 3:20:02 PM
Analysis Date: 1/27/2019 1:56:24 PM
Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38234,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/25/2019 3:20:02 PM
 Analysis Date: 1/25/2019 3:40:11 PM
 Instrument: GC14B Vial: 7 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.408	388	0.007
Hexacosane	10.135	412	0.010



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

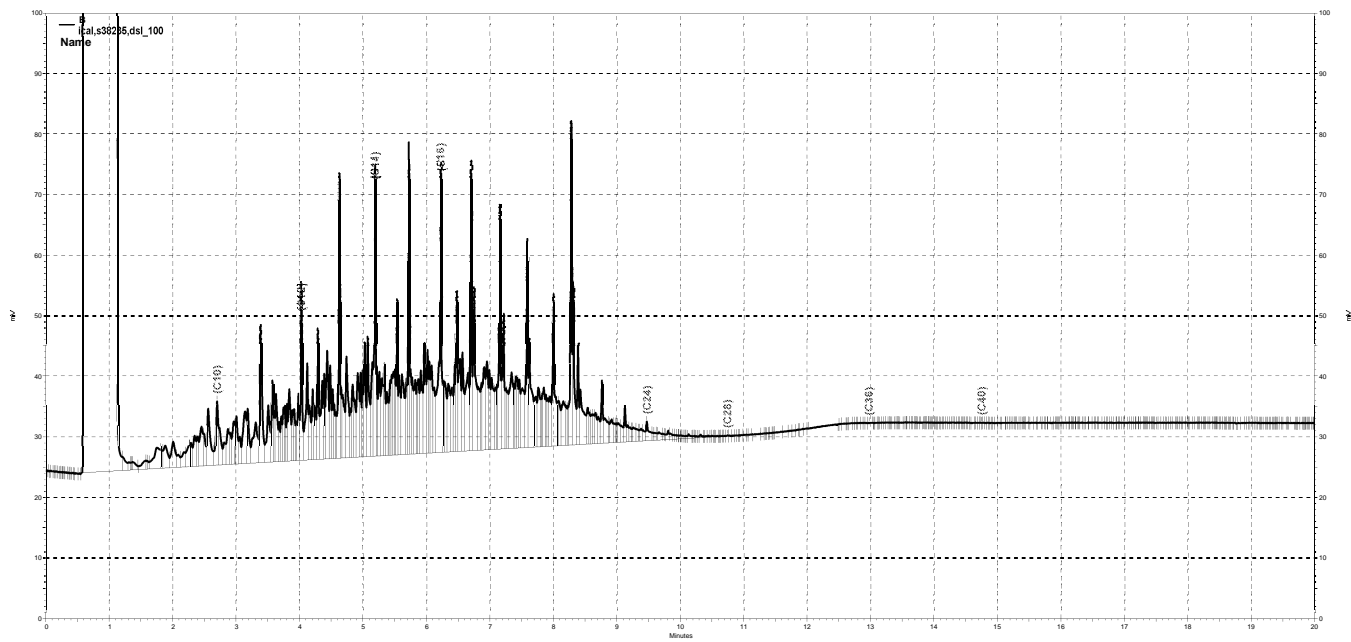
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\025b007_B5EE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\drive\ezchrom\Projects\GC14B\Data\2019\025b008, B

Sample Name: ical,s38235,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
 Run Date: 1/25/2019 3:46:53 PM
 Analysis Date: 1/27/2019 2:12:27 PM
 Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2253714	0.000 CAL
DSL:10-14	1425131	100.000 CAL
DSL:10-22	3871901	100.000 CAL
DSL:10-24	3984443	100.000 CAL
DSL:10-28	4042636	100.000 CAL
DSL:12-24	3488079	100.000 CAL
DSL:12-28	3546272	100.000 CAL
DSL:14-24	2715023	100.000 CAL
DSL:16-24	1896109	100.000 CAL
MO:22-32	250296	0.000 CAL
MO:24-36	155708	0.000 CAL
MO:28-40	159483	0.000 CAL
BUNKC:10-40	4198937	0.000 CAL
BUNKC:12-40	3702573	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

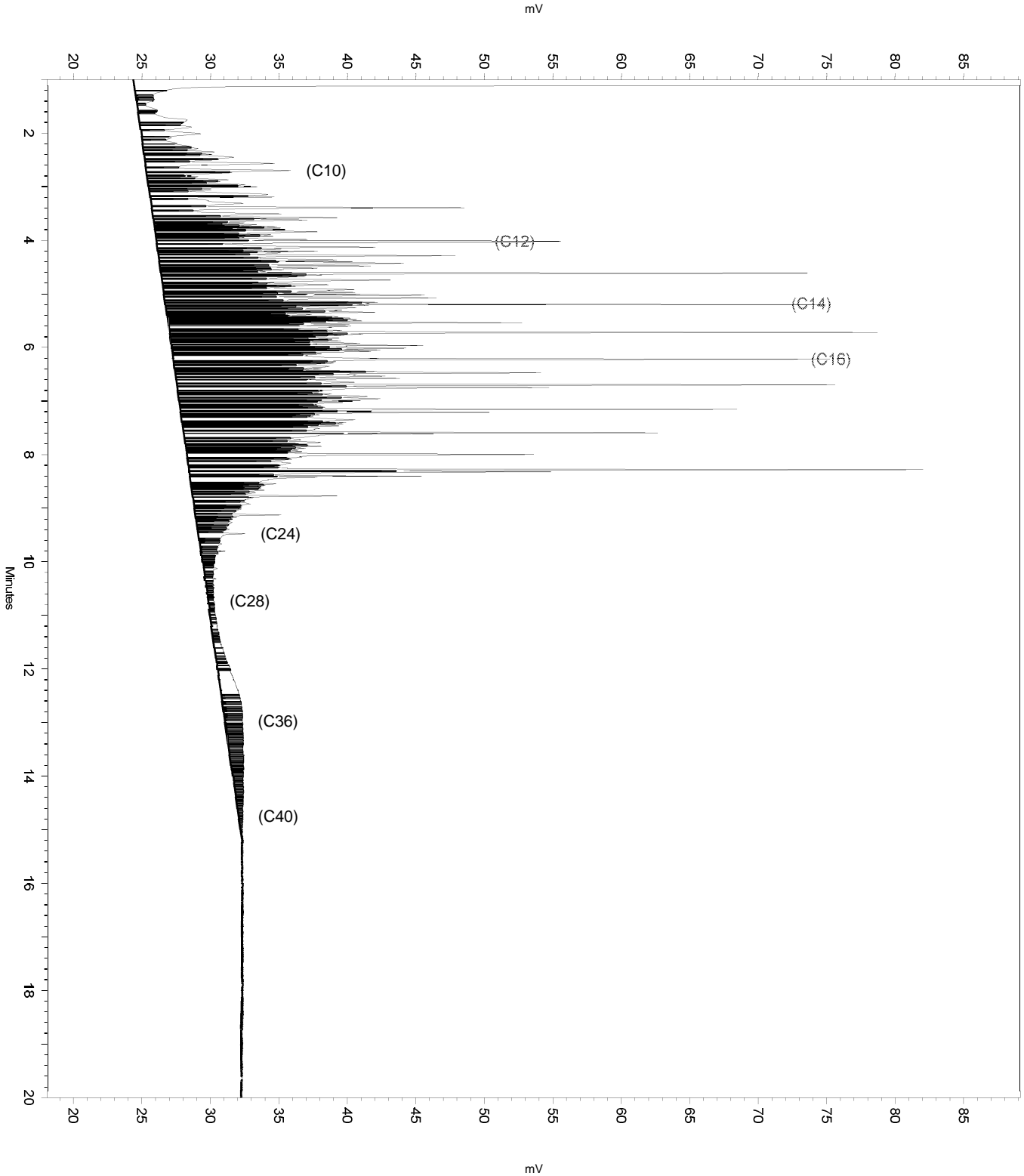
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	1.467	0.41	0
Yes	Move BL Stop	10.888	15.244	0

Sample Name: ical,s38235,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b008
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
Run Date: 1/25/2019 3:46:53 PM
Analysis Date: 1/27/2019 2:12:27 PM
Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38235,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b008
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
 Run Date: 1/25/2019 3:46:53 PM
 Analysis Date: 1/27/2019 1:51:50 PM
 Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2145786	47.798
DSL:10-14	1345850	78.643
DSL:10-22	3701573	80.990
DSL:10-24	3798923	80.915
DSL:10-28	3831505	80.604
DSL:12-24	3342733	81.756
DSL:12-28	3375315	81.388
DSL:14-24	2604262	82.382
DSL:16-24	1813498	83.378
MO:22-32	178022	5.907
MO:24-36	52180	1.650
MO:28-40	11190	0.543
BUNKC:10-40	3842233	187.246
BUNKC:12-40	3386043	169.894

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

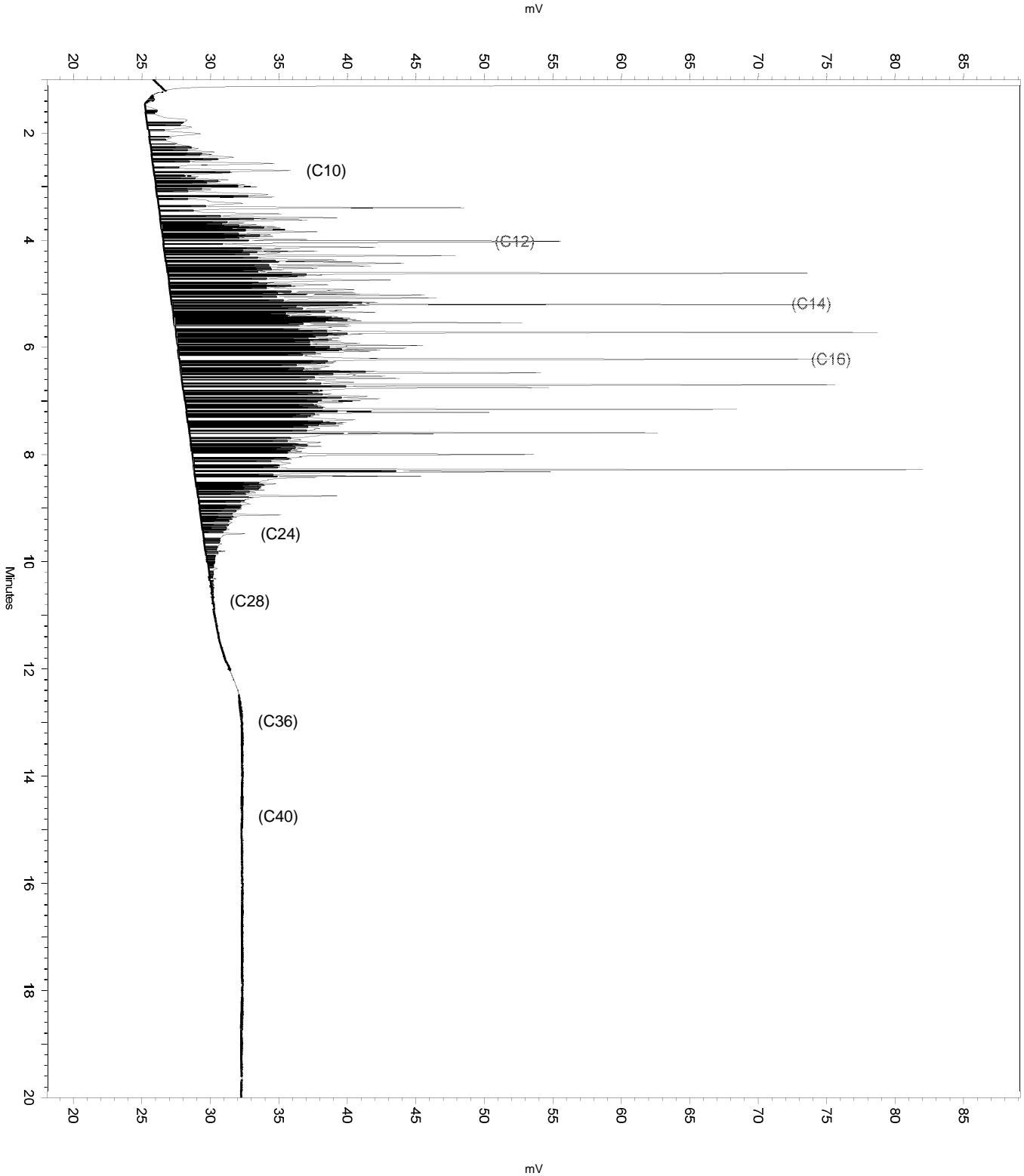
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b008
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

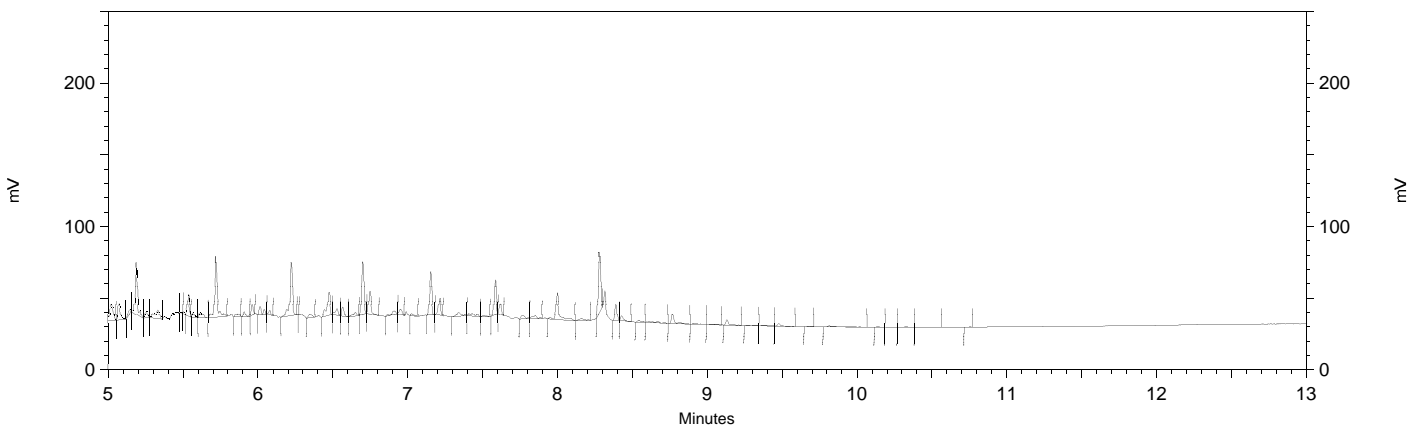
Sample Name: ical,s38235,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b008
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
Run Date: 1/25/2019 3:46:53 PM
Analysis Date: 1/27/2019 1:51:50 PM
Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38235,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b008
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/25/2019 3:46:53 PM
 Analysis Date: 1/25/2019 4:07:02 PM
 Instrument: GC14B Vial: 8 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.410	6978	0.134
Hexacosane	10.137	516	0.012



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

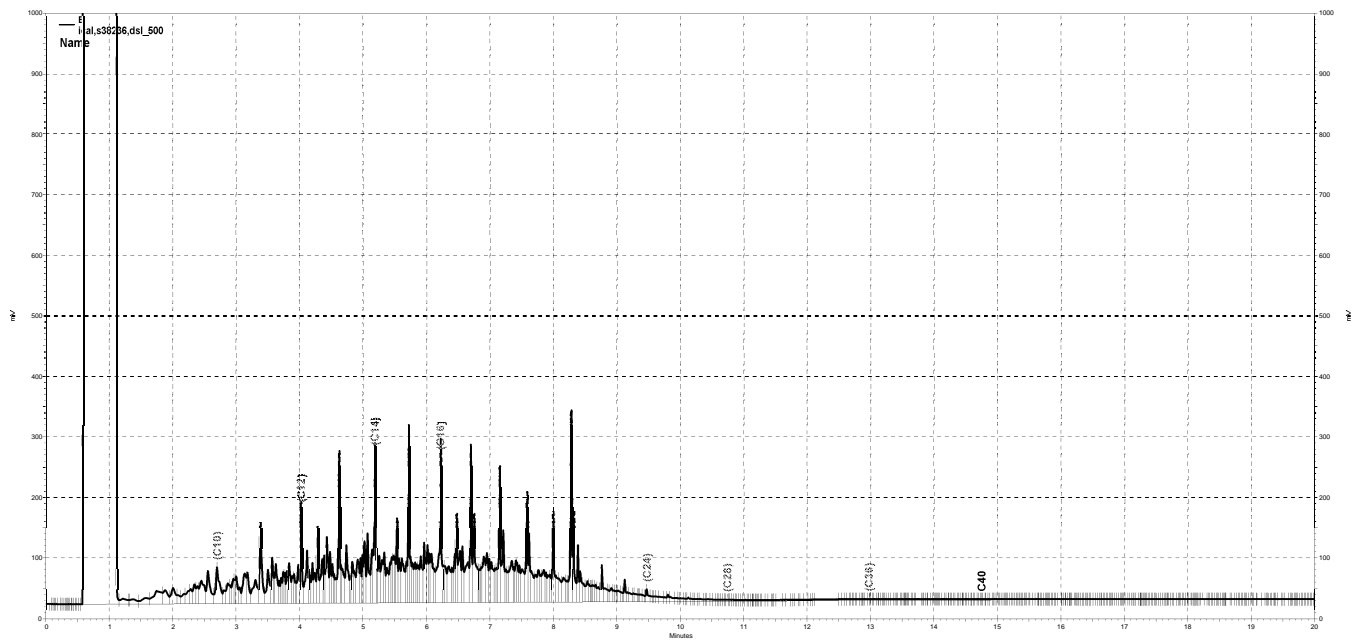
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\025b008_B5EF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b009, B

Sample Name: ical,s38236,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b009
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
 Run Date: 1/25/2019 4:13:46 PM
 Analysis Date: 1/27/2019 2:12:34 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12421836	0.000 CAL
DSL:10-14	7956399	500.000 CAL
DSL:10-22	21084386	500.000 CAL
DSL:10-24	21704688	500.000 CAL
DSL:10-28	22061708	500.000 CAL
DSL:12-24	18809176	500.000 CAL
DSL:12-28	19166196	500.000 CAL
DSL:14-24	14594024	500.000 CAL
DSL:16-24	10162296	500.000 CAL
MO:22-32	1362575	0.000 CAL
MO:24-36	758795	0.000 CAL
MO:28-40	536589	0.000 CAL
BUNKC:10-40	22577716	0.000 CAL
BUNKC:12-40	19682204	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

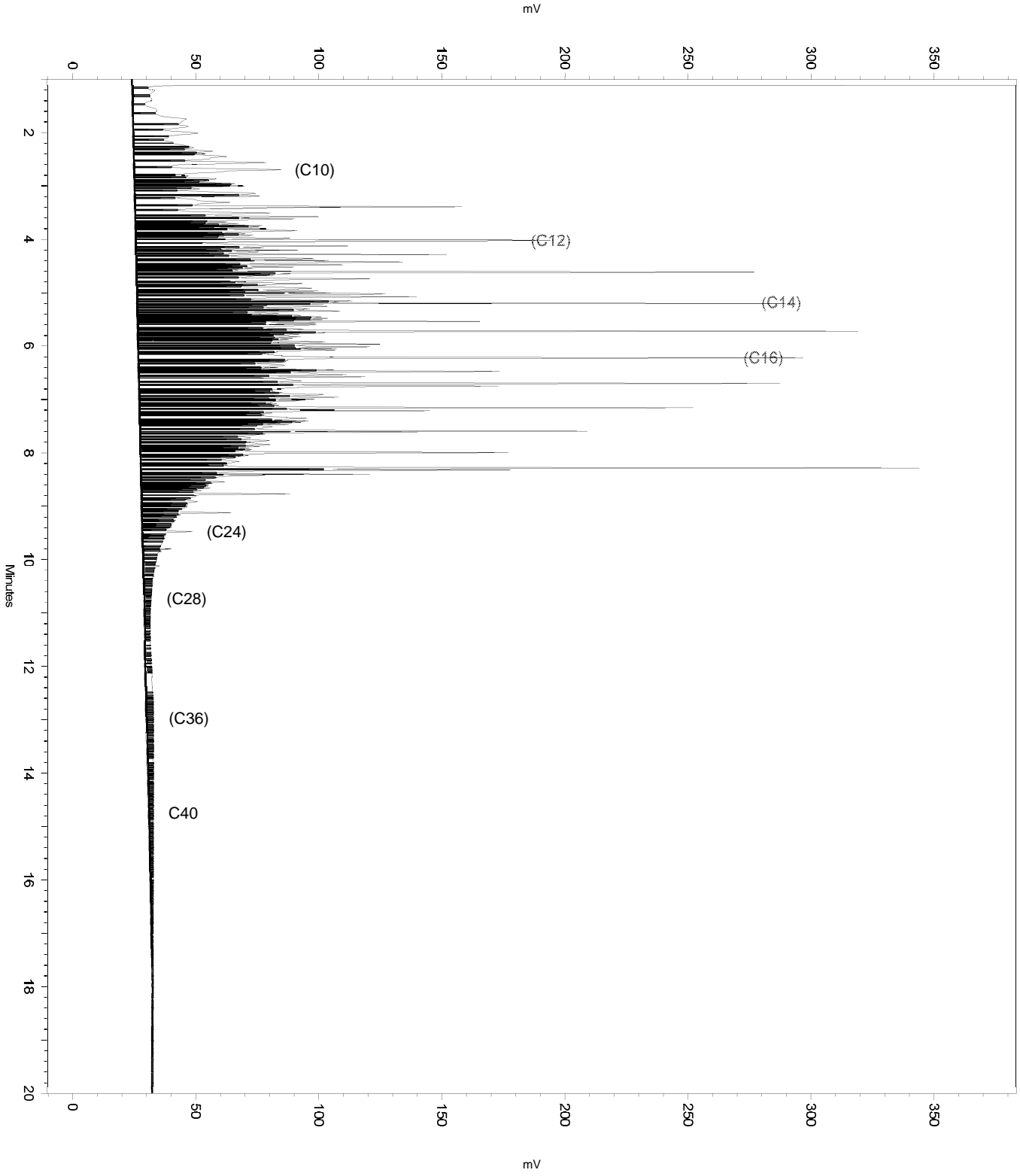
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

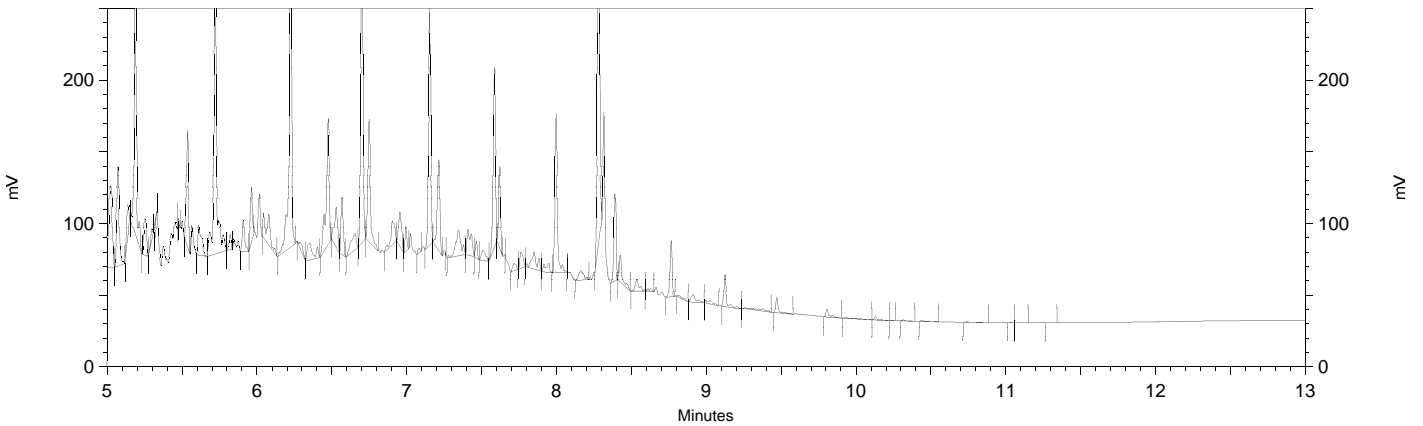
Sample Name: ical,s38236,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b009
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
Run Date: 1/25/2019 4:13:46 PM
Analysis Date: 1/27/2019 2:12:34 PM
Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38236,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/25/2019 4:13:46 PM
 Analysis Date: 1/25/2019 4:33:56 PM
 Instrument: GC14B Vial: 9 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.410	33968	0.650
Hexacosane	10.130	3322	0.079



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

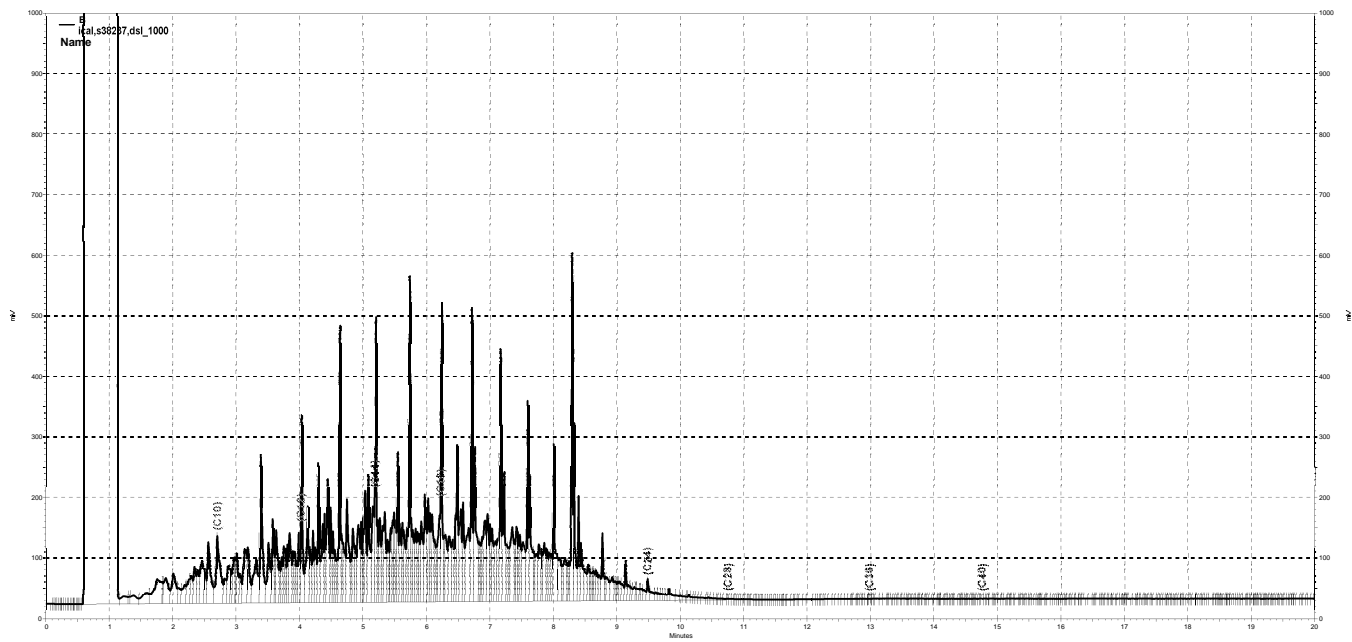
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\025b009_B5F0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b010, B

Sample Name: ical,s38237,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
 Run Date: 1/25/2019 4:40:44 PM
 Analysis Date: 1/27/2019 2:12:46 PM
 Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	22439332	0.000 CAL
DSL:10-14	14334085	1000.000 CAL
DSL:10-22	38406388	1000.000 CAL
DSL:10-24	39440904	1000.000 CAL
DSL:10-28	39932072	1000.000 CAL
DSL:12-24	34158376	1000.000 CAL
DSL:12-28	34649544	1000.000 CAL
DSL:14-24	26353414	1000.000 CAL
DSL:16-24	18299042	1000.000 CAL
MO:22-32	2092171	0.000 CAL
MO:24-36	845273	0.000 CAL
MO:28-40	257418	0.000 CAL
BUNKC:10-40	40164292	0.000 CAL
BUNKC:12-40	34881764	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

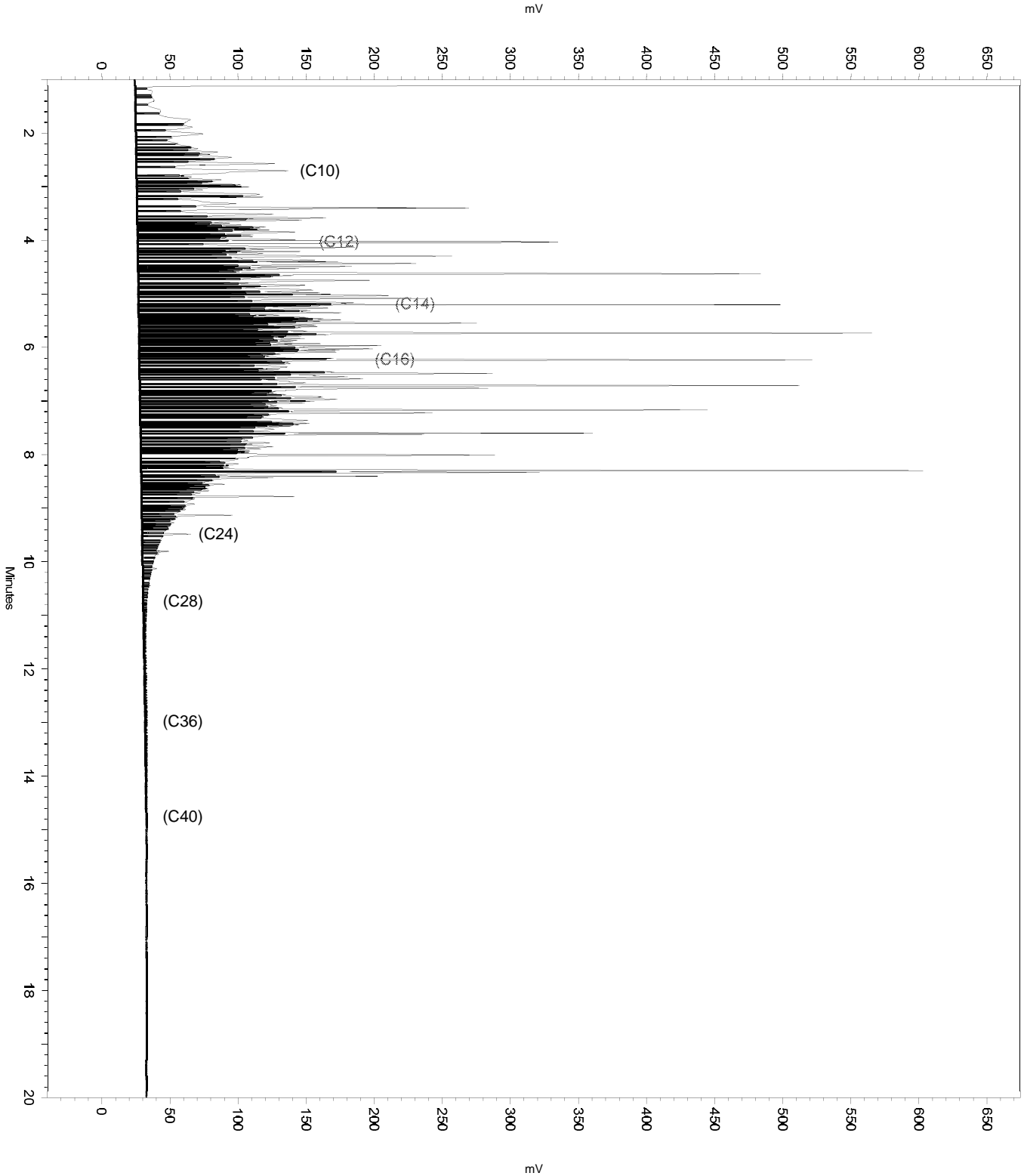
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	11.782	15.033	0

Sample Name: ical,s38237,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b010
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
Run Date: 1/25/2019 4:40:44 PM
Analysis Date: 1/27/2019 2:12:46 PM
Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38237,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b010
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
 Run Date: 1/25/2019 4:40:44 PM
 Analysis Date: 1/27/2019 1:57:05 PM
 Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	22372874	0.000 CAL
DSL:10-14	14292954	1000.000 CAL
DSL:10-22	38254584	1000.000 CAL
DSL:10-24	39260504	1000.000 CAL
DSL:10-28	39695116	1000.000 CAL
DSL:12-24	33994552	1000.000 CAL
DSL:12-28	34429164	1000.000 CAL
DSL:14-24	26211636	1000.000 CAL
DSL:16-24	18181492	1000.000 CAL
MO:22-32	1948211	0.000 CAL
MO:24-36	660044	0.000 CAL
MO:28-40	64179	0.000 CAL
BUNKC:10-40	39742340	0.000 CAL
BUNKC:12-40	34476388	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

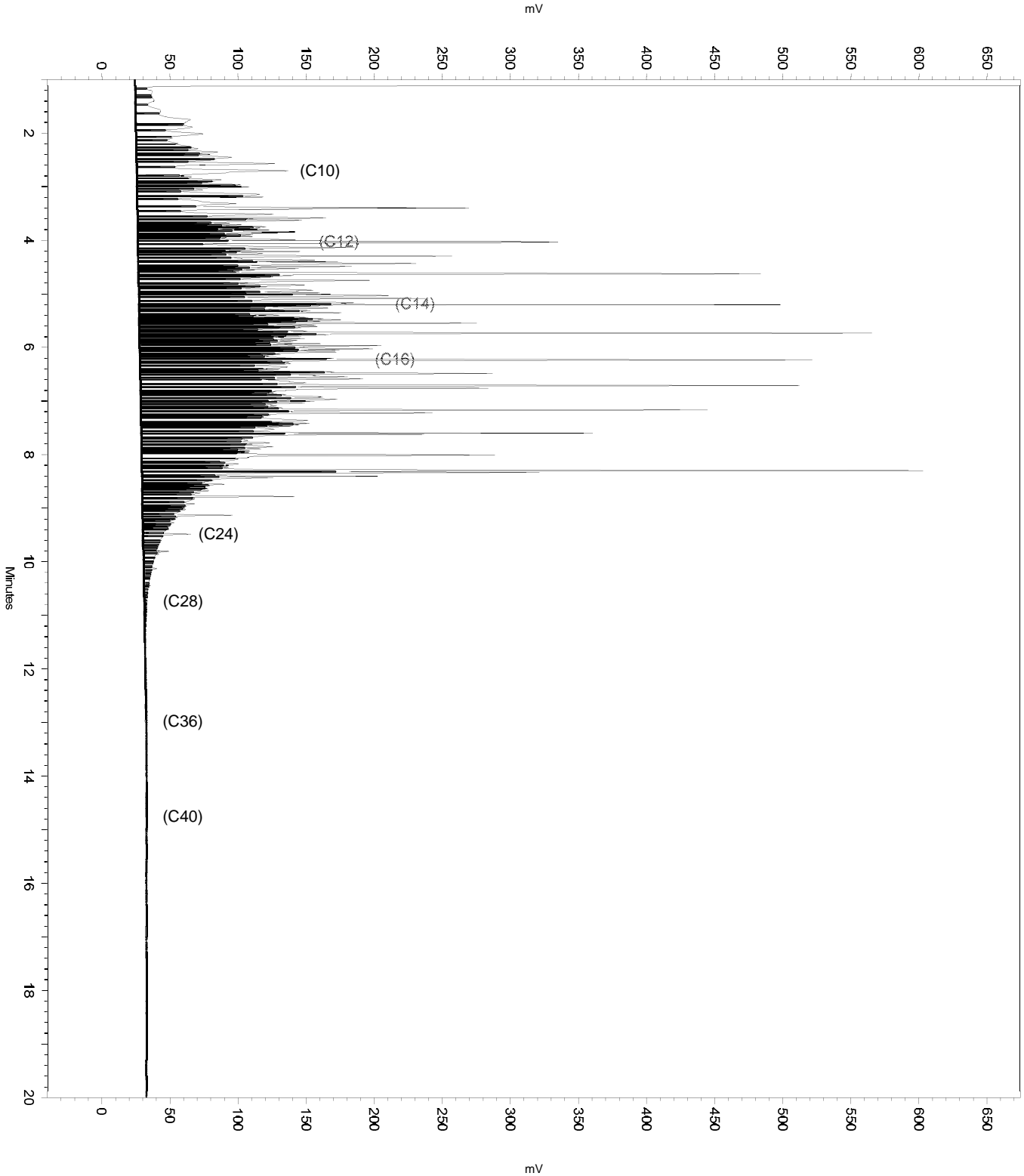
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop      2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b010
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

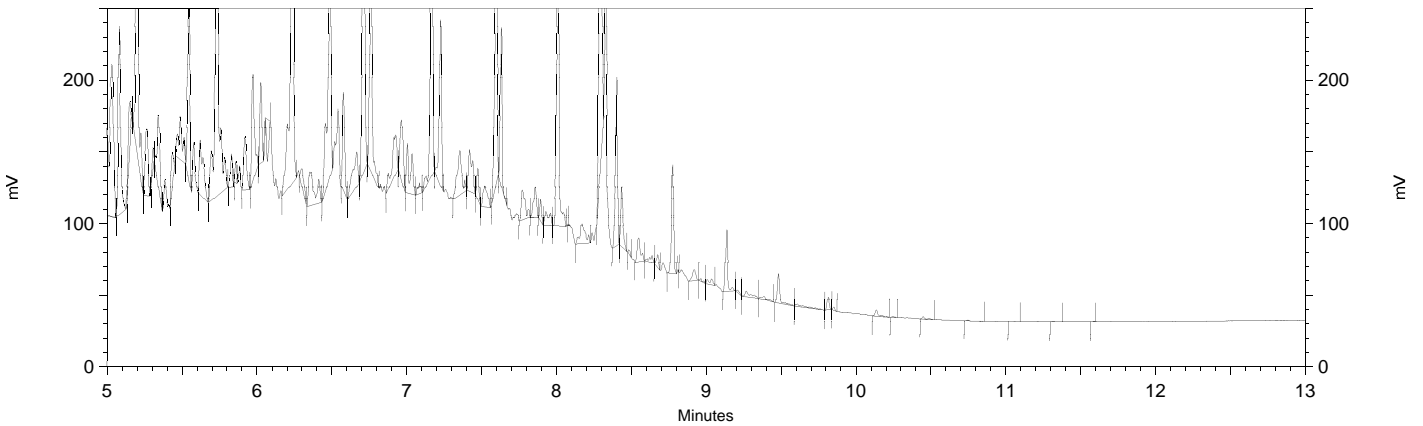
Sample Name: ical,s38237,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b010
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
Run Date: 1/25/2019 4:40:44 PM
Analysis Date: 1/27/2019 1:57:05 PM
Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38237,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b010
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/25/2019 4:40:44 PM
 Analysis Date: 1/25/2019 5:00:53 PM
 Instrument: GC14B Vial: 10 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.420	53793	1.030
Hexacosane	10.137	6126	0.146



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

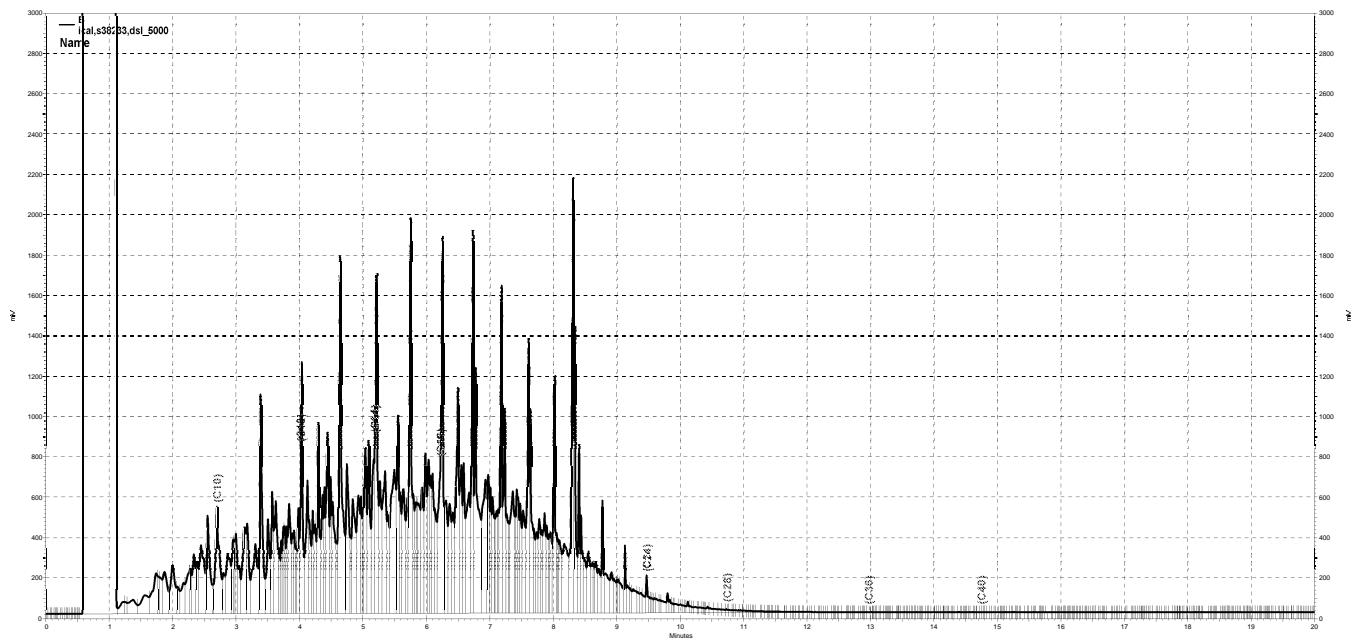
```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\025b010_B5F1.tmp
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```



— \\kralen\drive\ezchrom\Projects\GC14B\Data\2019\025b011, B

Sample Name: ical,s38233,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b011
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
 Run Date: 1/25/2019 5:07:51 PM
 Analysis Date: 1/27/2019 2:12:53 PM
 Instrument: GC14B Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	110827968	0.000 CAL
DSL:10-14	71057968	5000.000 CAL
DSL:10-22	190494800	5000.000 CAL
DSL:10-24	195452192	5000.000 CAL
DSL:10-28	198060896	5000.000 CAL
DSL:12-24	168939296	5000.000 CAL
DSL:12-28	171548000	5000.000 CAL
DSL:14-24	130749112	5000.000 CAL
DSL:16-24	90189144	5000.000 CAL
MO:22-32	10500426	0.000 CAL
MO:24-36	3988247	0.000 CAL
MO:28-40	752882	0.000 CAL
BUNKC:10-40	198727808	0.000 CAL
BUNKC:12-40	172214912	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

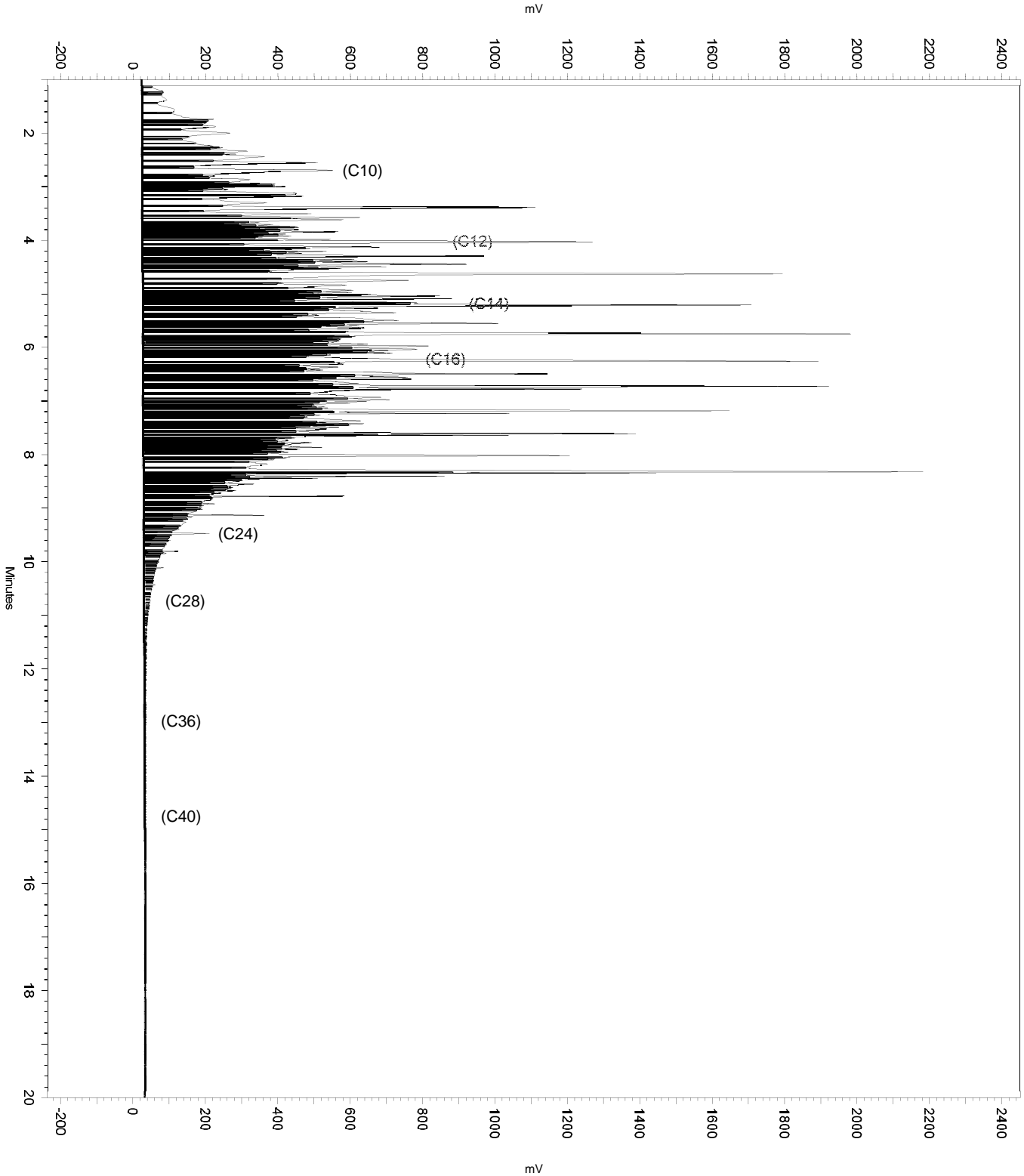
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

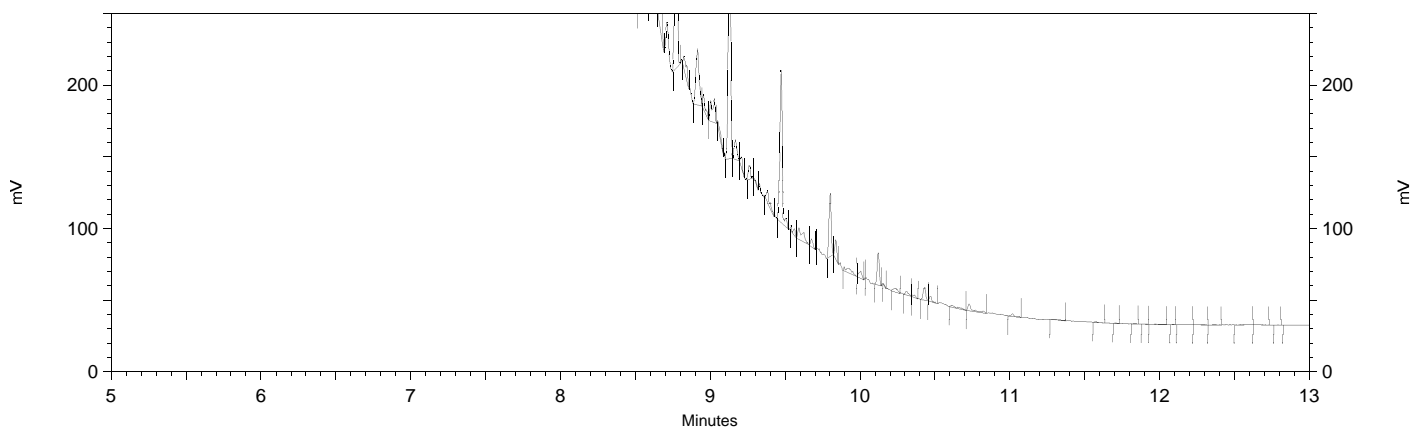
Sample Name: ical,s38233,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b011
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
Run Date: 1/25/2019 5:07:51 PM
Analysis Date: 1/27/2019 2:12:53 PM
Instrument: GC14B Vial: 11 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s38233,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b011
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/25/2019 5:07:51 PM
 Analysis Date: 1/25/2019 5:28:00 PM
 Instrument: GC14B Vial: 11 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.425	269296	5.155
Hexacosane	10.157	932	0.022



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

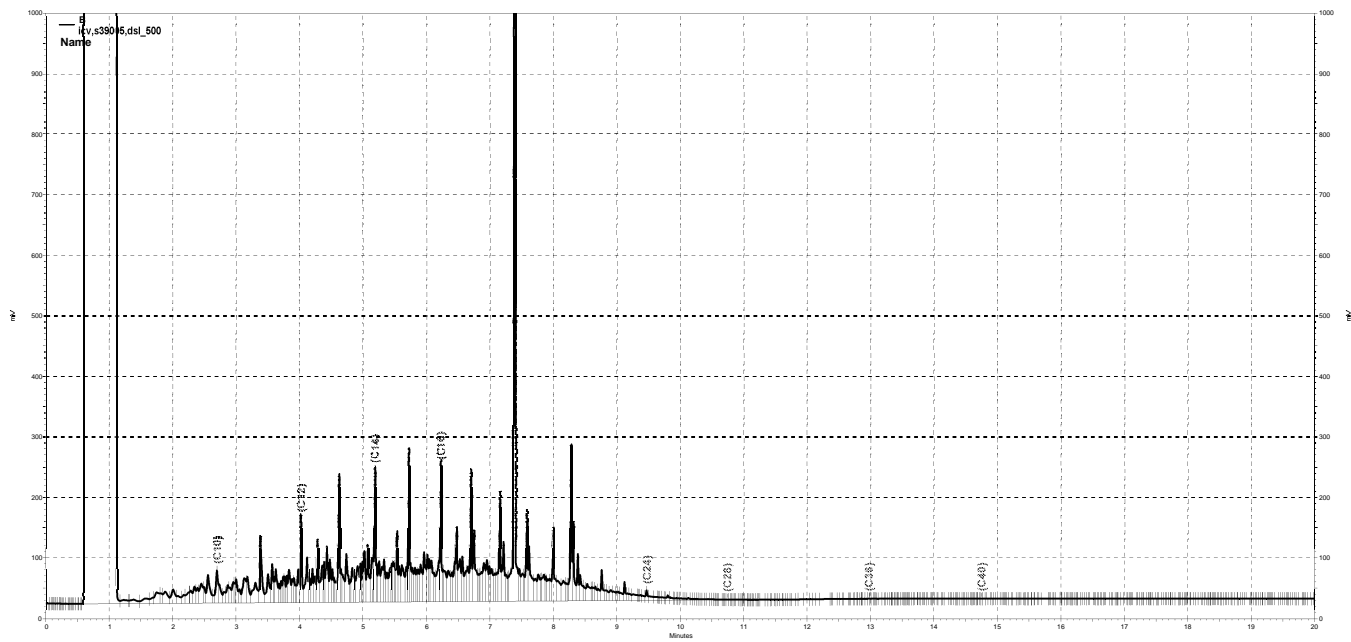
```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\025b011_B5F2.tmp
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b013, B

Sample Name: icv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b013
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
 Run Date: 1/25/2019 6:02:17 PM
 Analysis Date: 1/27/2019 2:19:44 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	10499416	233.879
DSL:10-14	6724033	450.548
DSL:10-22	19996064	489.440
DSL:10-24	20526036	487.789
DSL:10-28	20853538	487.475
DSL:12-24	18077616	491.153
DSL:12-28	18405118	490.733
DSL:14-24	14520698	506.419
DSL:16-24	10769215	538.179
MO:22-32	1229764	40.805
MO:24-36	764550	24.171
MO:28-40	636517	30.907
BUNKC:10-40	21463702	1046.006
BUNKC:12-40	19015282	954.088

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

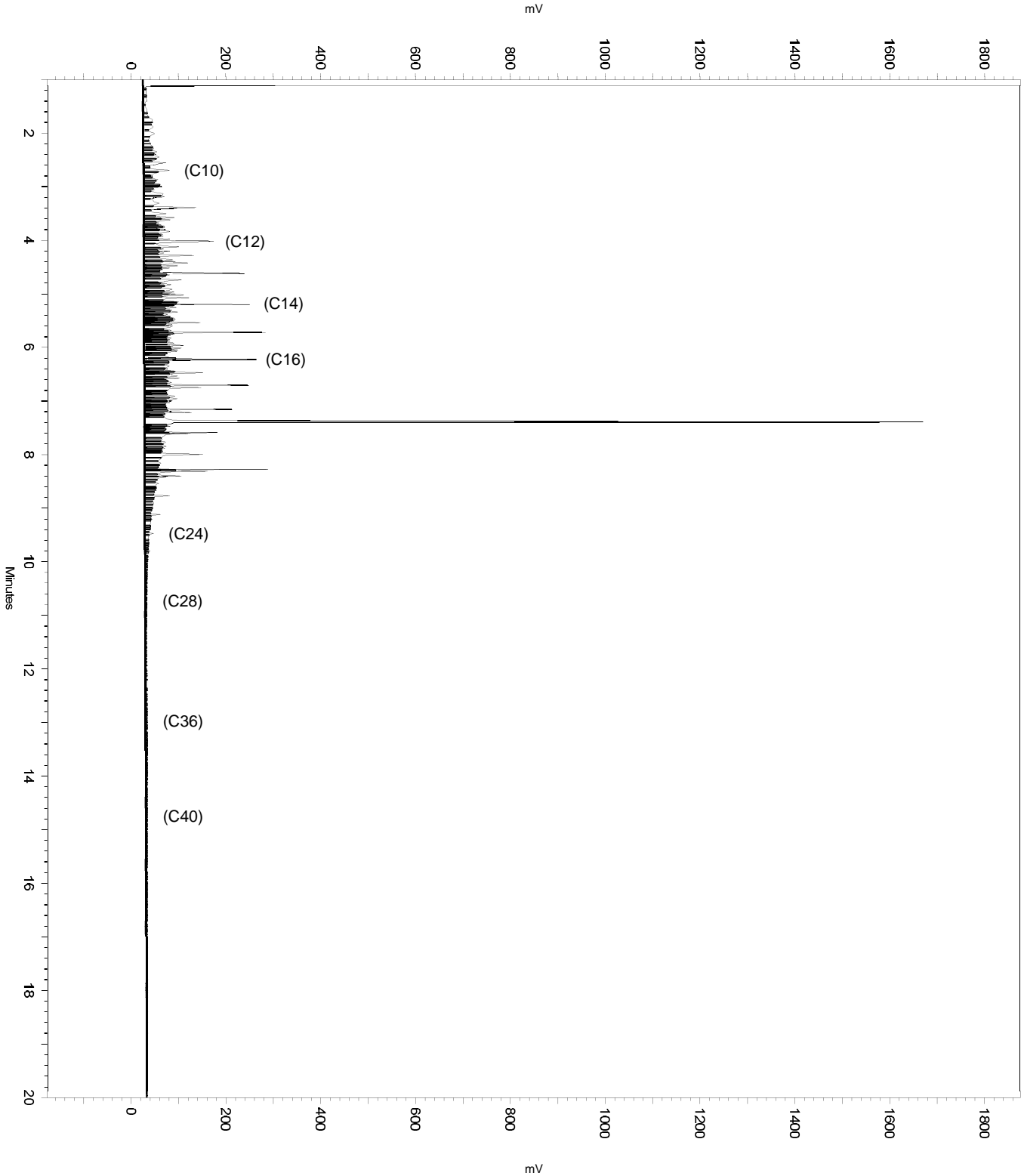
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	7.296	7.484	0
Yes	Move BL Stop	11.058	15.978	0
Yes	Move BL Stop	15.978	17.004	0
Yes	Move BL Stop	17.003	19.978	0

Sample Name: icv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b013
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
Run Date: 1/25/2019 6:02:17 PM
Analysis Date: 1/27/2019 2:19:44 PM
Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: icv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b013
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
 Run Date: 1/25/2019 6:02:17 PM
 Analysis Date: 1/27/2019 2:02:04 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	10319648	229.874
DSL:10-14	6612491	445.554
DSL:10-22	19592244	483.620
DSL:10-24	20046296	481.099
DSL:10-28	20223660	479.030
DSL:12-24	17642836	484.376
DSL:12-28	17820200	481.964
DSL:14-24	14143274	499.115
DSL:16-24	10456189	530.003
MO:22-32	853615	28.324
MO:24-36	269867	8.532
MO:28-40	21786	1.058
BUNKC:10-40	20240856	986.413
BUNKC:12-40	17837396	894.988

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

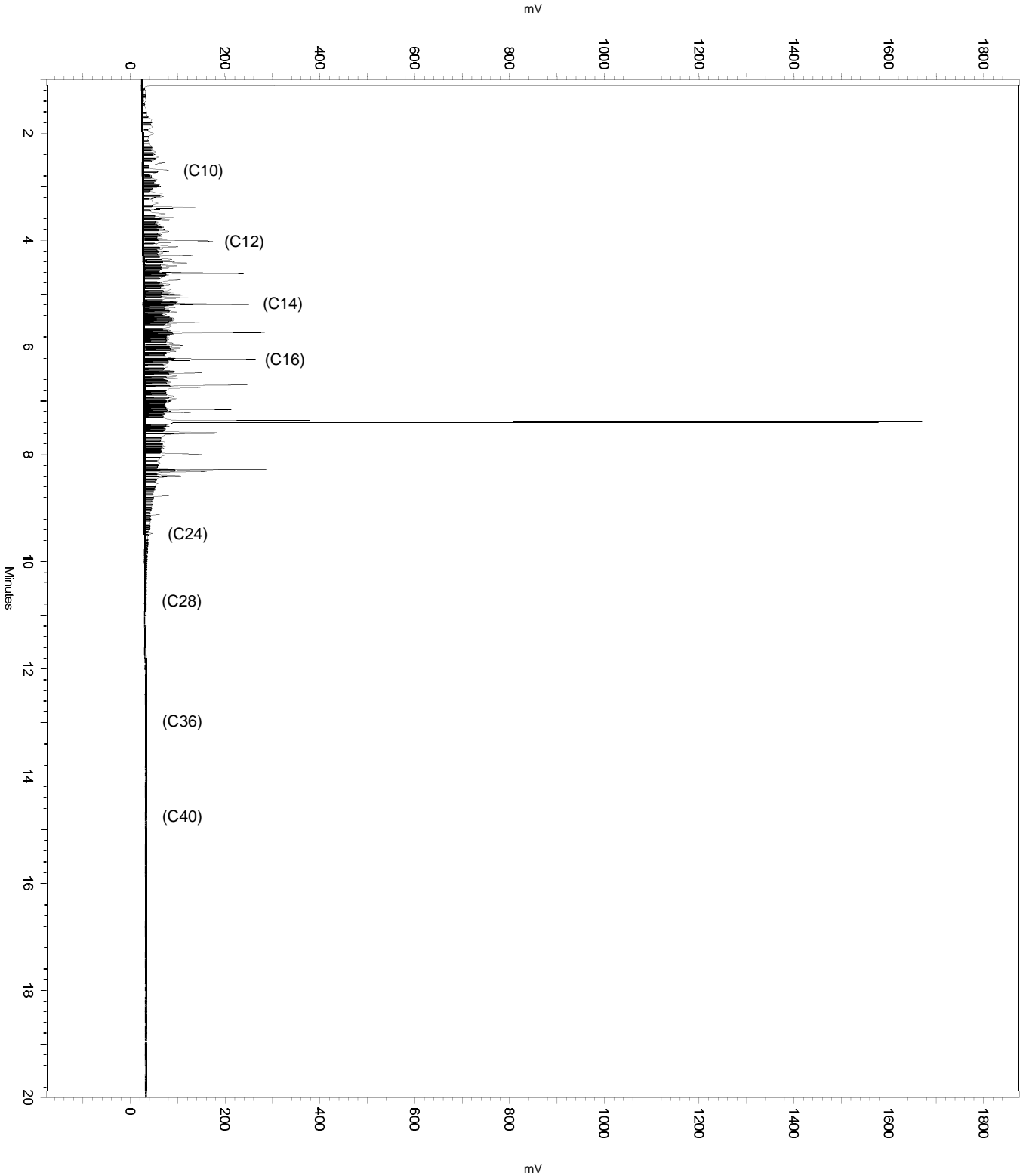
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	7.296	7.484	0

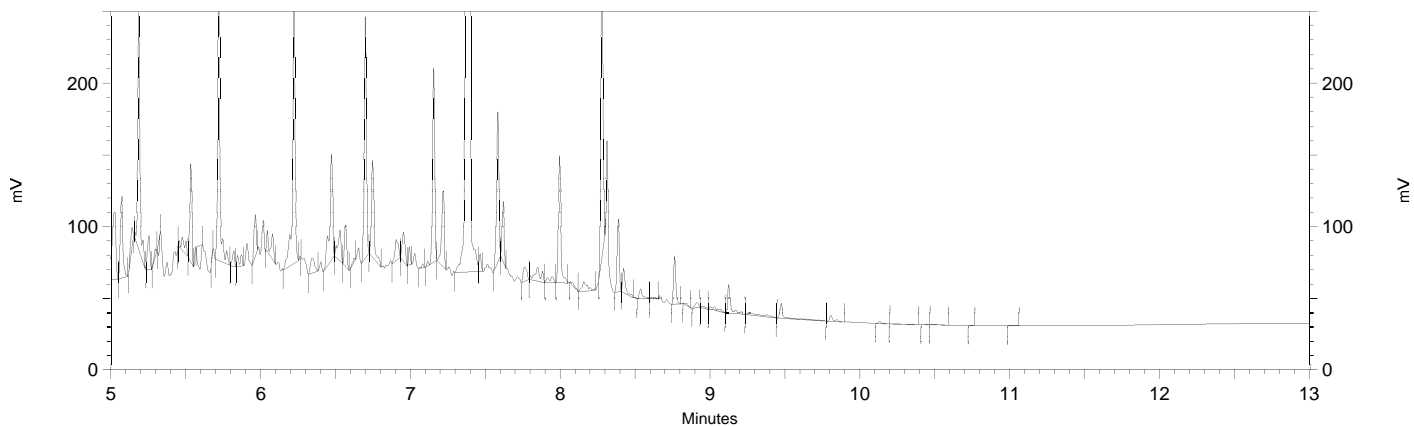
Sample Name: icv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b013
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
Run Date: 1/25/2019 6:02:17 PM
Analysis Date: 1/27/2019 2:02:04 PM
Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: icv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b013
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/25/2019 6:02:17 PM
 Analysis Date: 1/27/2019 1:59:57 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.393	2214994	42.400
Hexacosane	10.128	2459	0.058



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

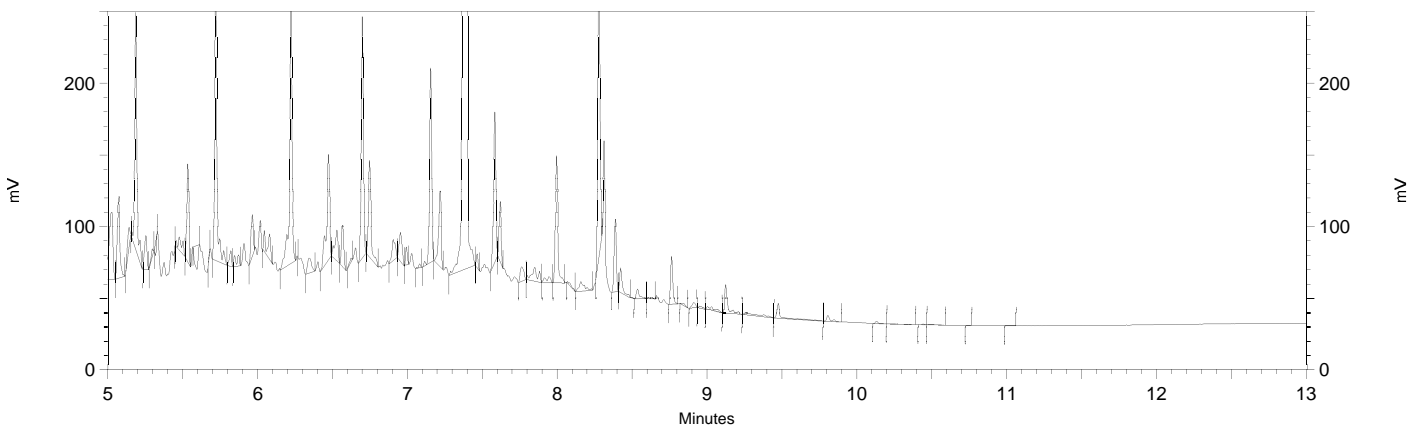
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	7.296	7.484	0

Sample Name: icv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b013
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/25/2019 6:02:17 PM
 Analysis Date: 1/27/2019 1:59:39 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.393	2202235	42.156
Hexacosane	10.128	2459	0.058



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b013
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229046549001
 Units : mg/L

Name : HEX OTP_032
 Date : 01-FEB-2019 17:37
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_008	229046549008	HEX OTP_2.5	01-FEB-2019 17:37	S38295 (2X)
L2	032_009	229046549009	HEX OTP_5	01-FEB-2019 18:04	S38295
L3	032_010	229046549010	HEX OTP_10	01-FEB-2019 18:32	S38296
L4	032_011	229046549011	HEX OTP_25	01-FEB-2019 18:59	S38297
L5	032_012	229046549012	HEX OTP_50	01-FEB-2019 19:26	S38299 (2X)
L6	032_013	229046549013	HEX OTP_100	01-FEB-2019 19:53	S38299

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	43359	43885	43906	42921	44488	43099	AVRG		2.29E-5		43610	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	-1	5.0000	1	10.000	1	25.000	-2	50.000	2	100.00	-1

TKY 02/04/19 : Corrected automatically drawn baseline in all levels.

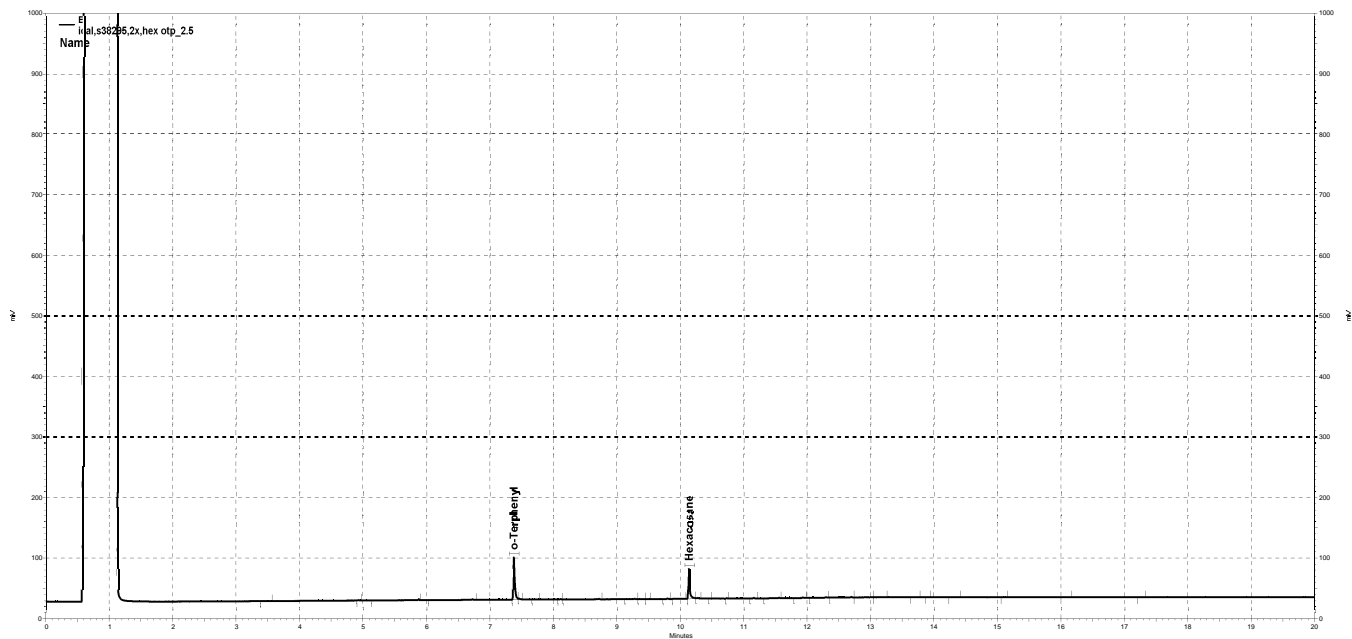
Analyst: TKY

Date: 02/04/19

Reviewer: EAH

Date: 02/04/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

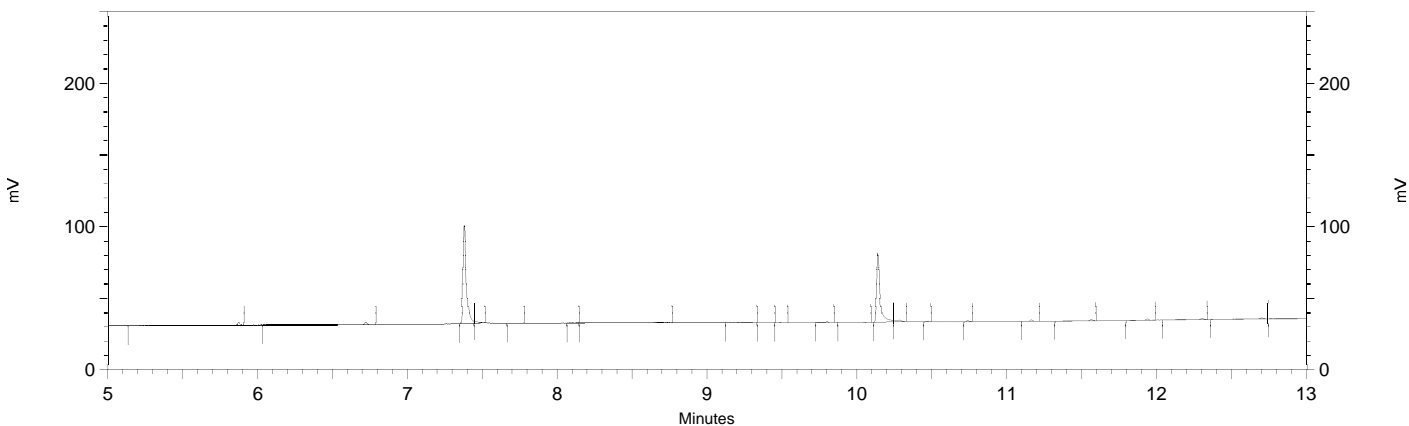


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b008, B

Sample Name: ical,s38295,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b008
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 5:37:22 PM
 Analysis Date: 2/4/2019 10:49:37 AM
 Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.378	108397	2.500 CAL
Hexacosane	10.137	78048	2.500 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off      0          2     0
Yes Valley to Valley     0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

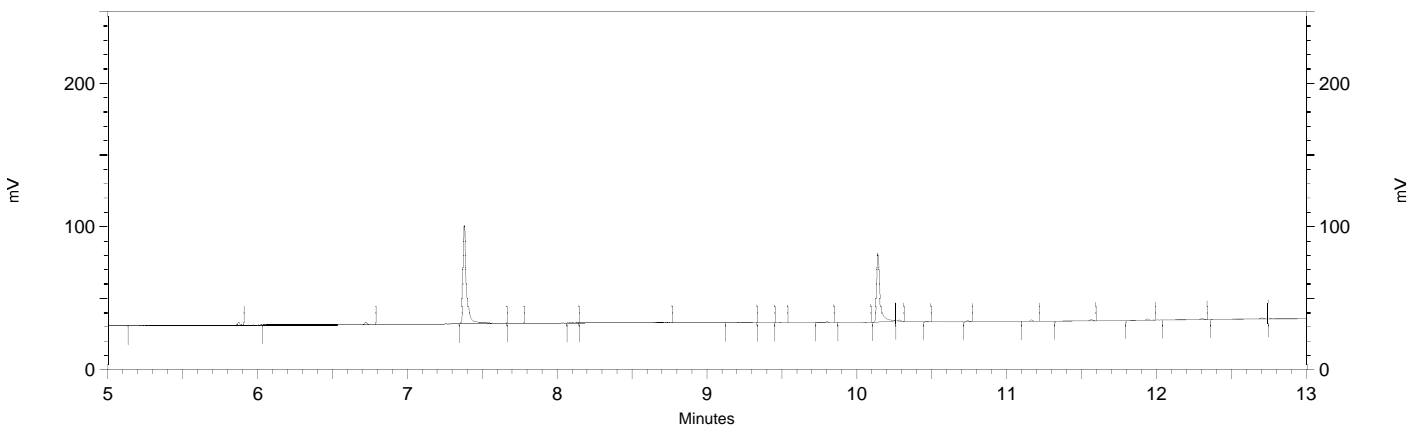
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b008
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Manual Peak         7.349     7.517    0
Yes Split Peak          7.445     0         0
Yes Manual Peak         10.109    10.329   0
Yes Split Peak          10.244    0         0
  
```

Sample Name: ical,s38295,2x,hex otp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b008
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 5:37:22 PM
 Analysis Date: 2/4/2019 10:38:51 AM
 Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.378	114883	2.500 CAL
Hexacosane	10.137	76065	2.500 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

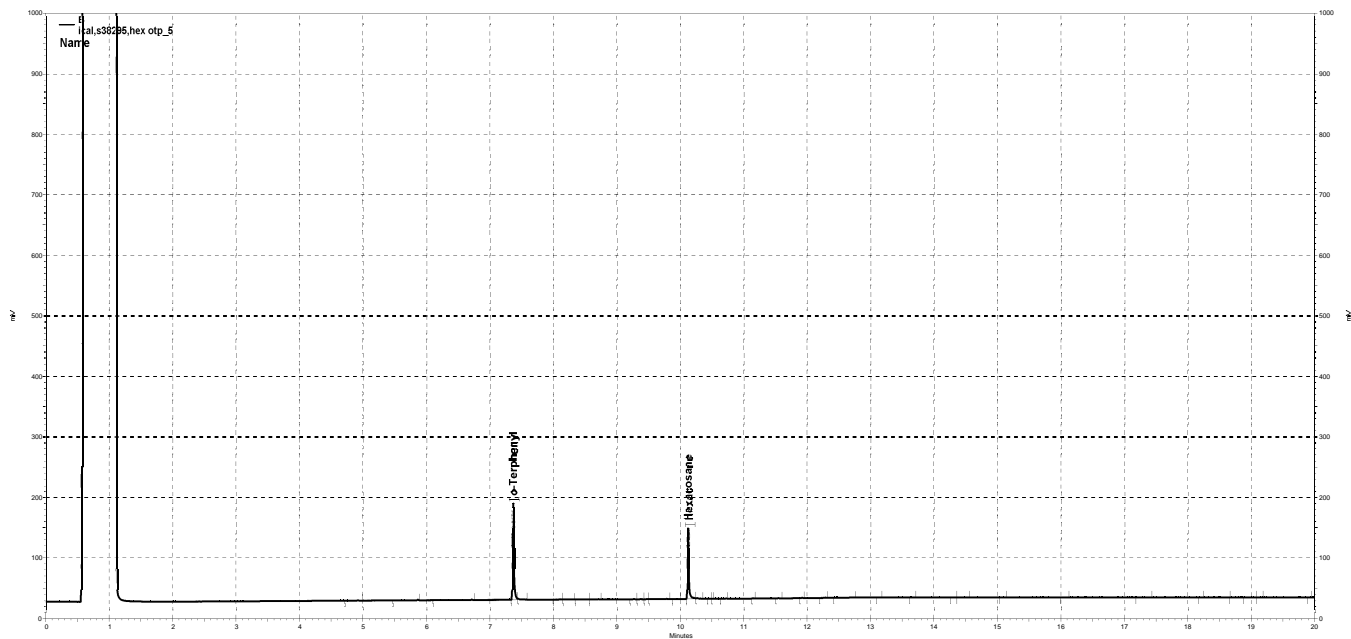
```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

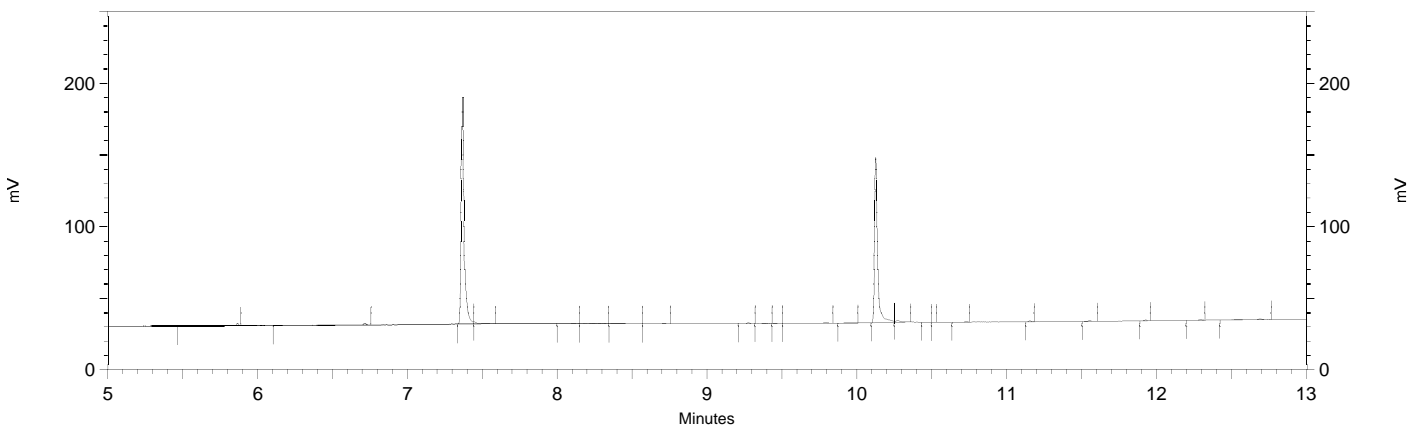


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b009, B

Sample Name: ical,s38295,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 6:04:29 PM
 Analysis Date: 2/4/2019 10:49:41 AM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.367	219424	5.000 CAL
Hexacosane	10.125	164585	5.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

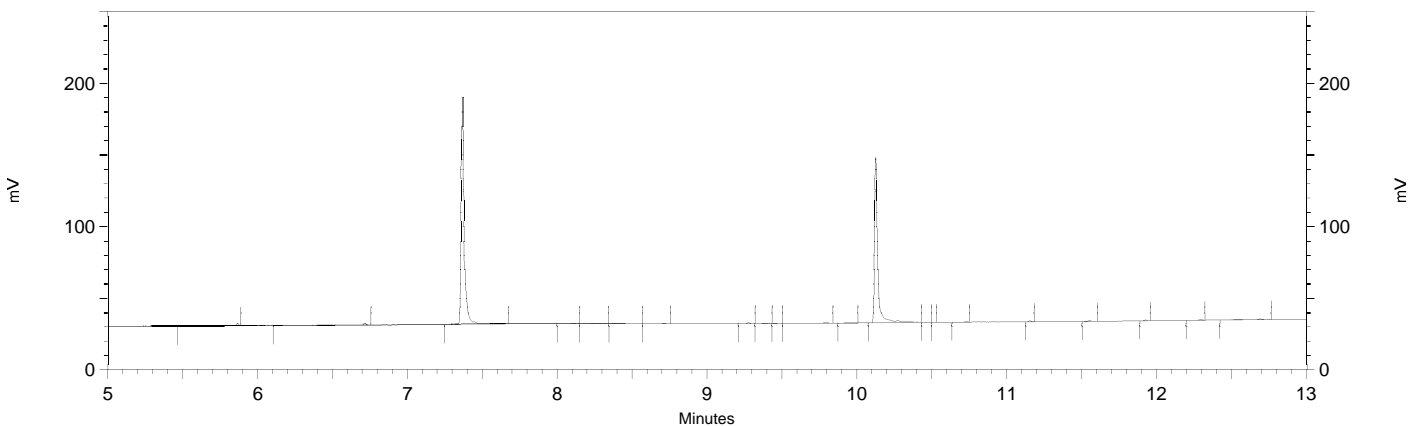
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.333	7.585	0
Yes	Split Peak	7.441	0	0
Yes	Manual Peak	10.094	10.357	0
Yes	Split Peak	10.249	0	0

Sample Name: ical,s38295,hex otp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 6:04:29 PM
 Analysis Date: 2/4/2019 10:39:45 AM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.367	225603	5.000 CAL
Hexacosane	10.125	170740	5.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

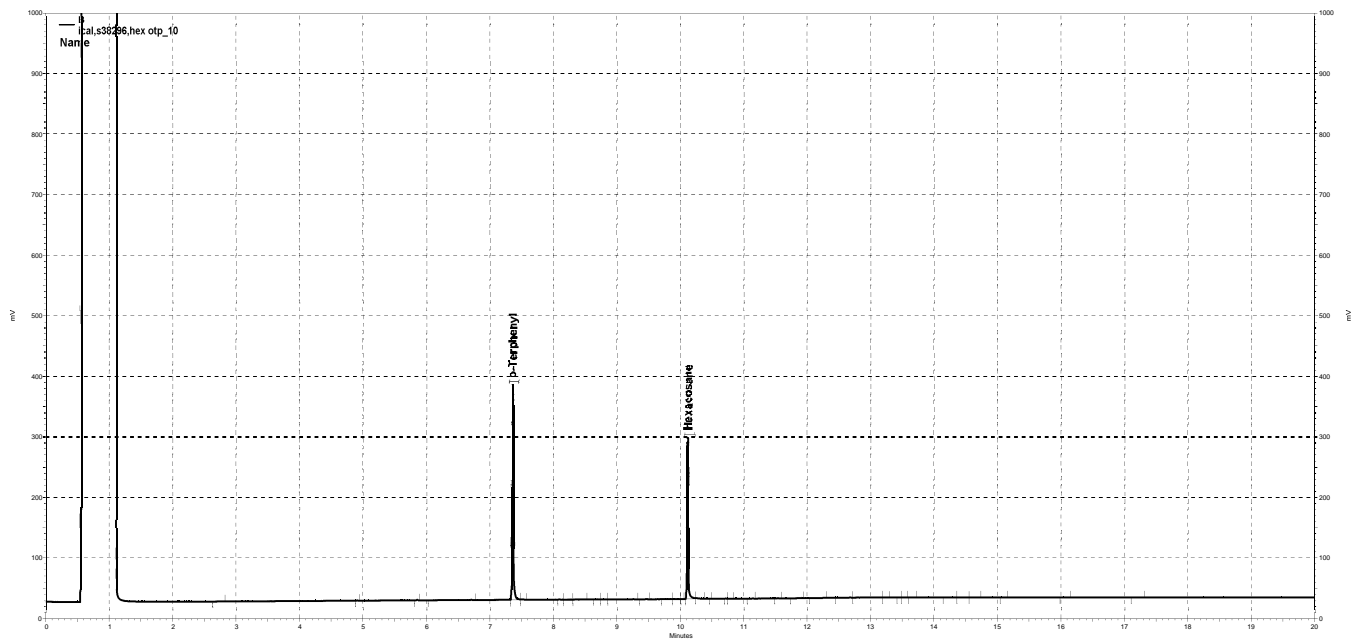
```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

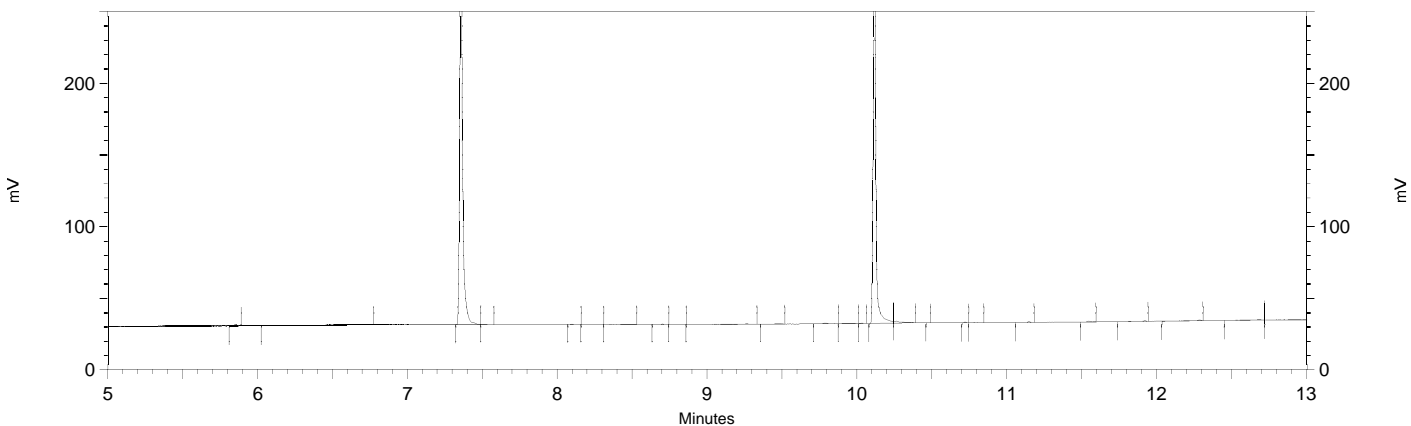


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b010, B

Sample Name: ical,s38296,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b010
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 6:32:00 PM
 Analysis Date: 2/4/2019 10:49:45 AM
 Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.358	439059	10.000 CAL
Hexacosane	10.117	335775	10.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off      0          2     0
Yes Valley to Valley     0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

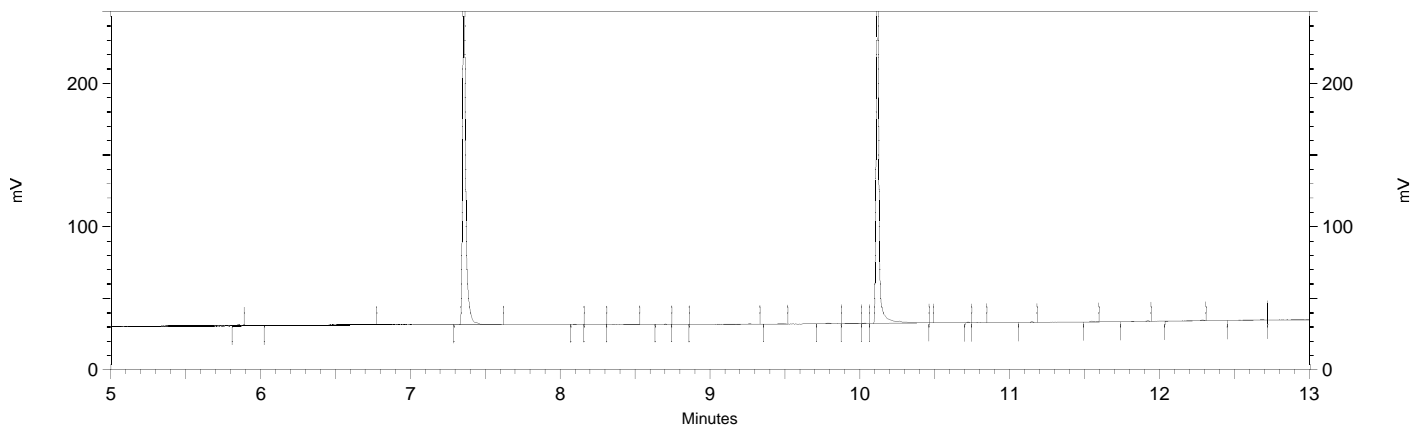
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b010
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Manual Peak         7.323     7.578    0
Yes Split Peak          7.488     0         0
Yes Manual Peak         10.08     10.39    0
Yes Split Peak          10.245    0         0
  
```

Sample Name: ical,s38296,hex otp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b010
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 6:32:00 PM
 Analysis Date: 2/4/2019 10:40:47 AM
 Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.358	441365	10.000 CAL
Hexacosane	10.117	342364	10.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

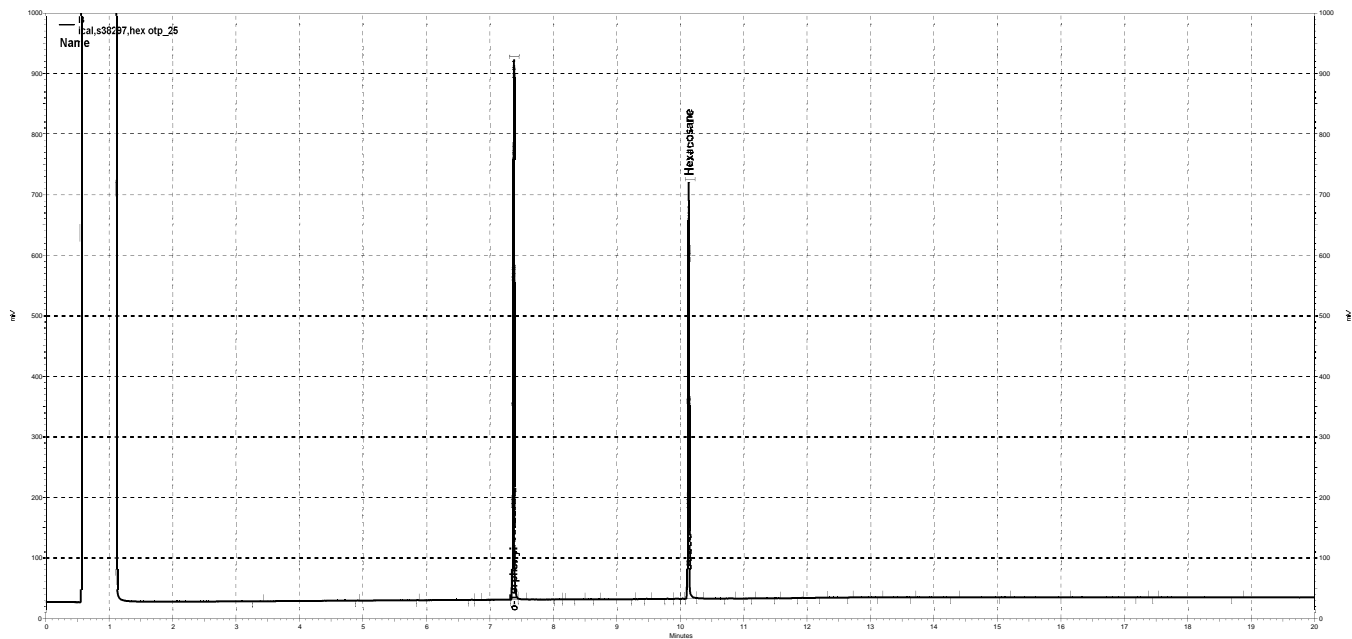
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

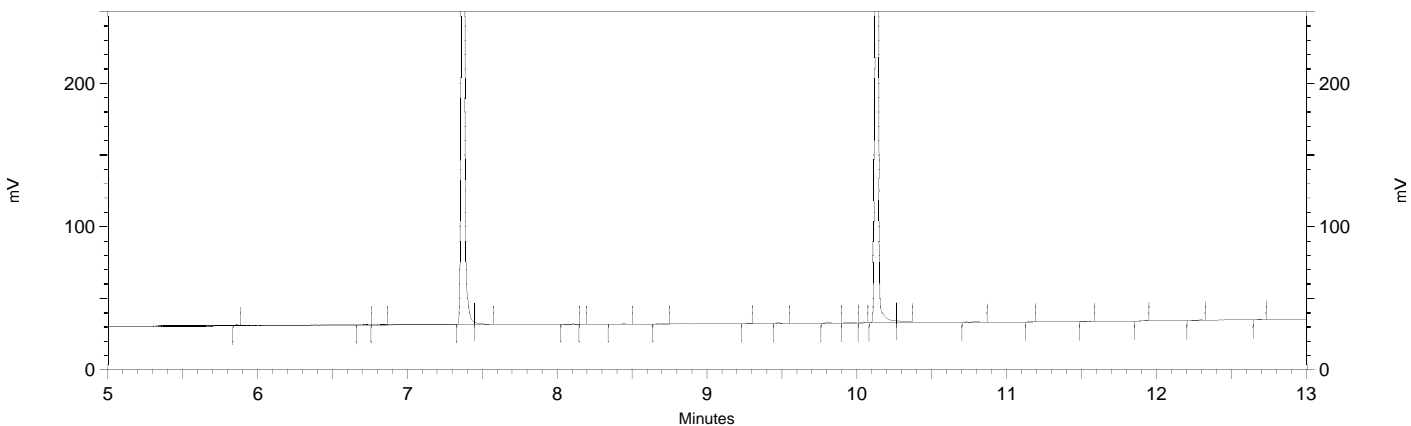


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b011, B

Sample Name: ical,s38297,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b011
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 6:59:22 PM
 Analysis Date: 2/4/2019 10:49:48 AM
 Instrument: GC14B Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.375	1073029	25.000 CAL
Hexacosane	10.133	841696	25.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

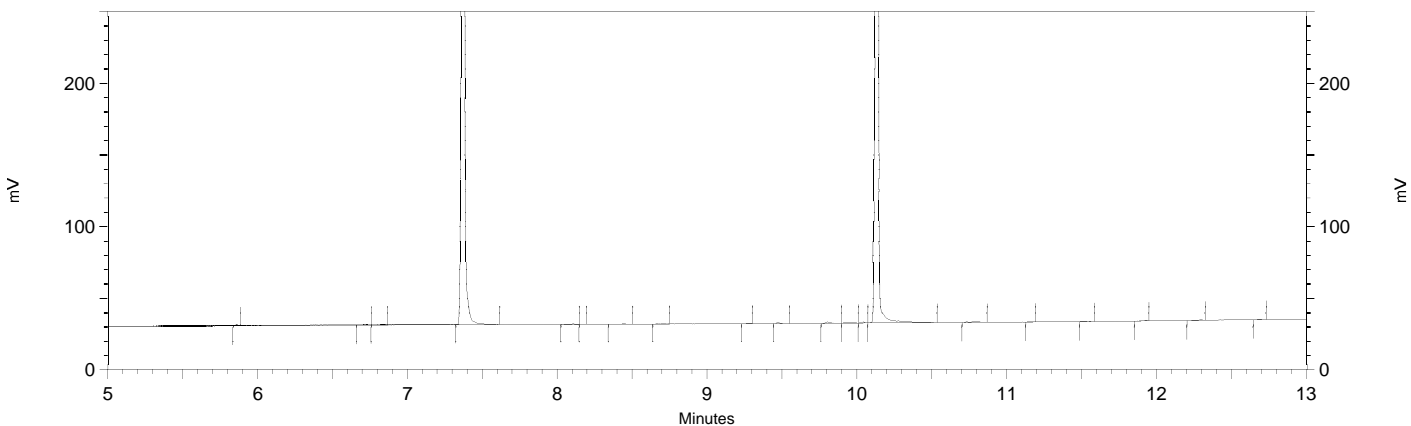
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.33	7.576	0
Yes	Split Peak	7.448	0	0
Yes	Manual Peak	10.08	10.369	0
Yes	Split Peak	10.262	0	0

Sample Name: ical,s38297,hex otp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b011
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 6:59:22 PM
 Analysis Date: 2/4/2019 10:43:27 AM
 Instrument: GC14B Vial: 11 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.375	1078430	25.000 CAL
Hexacosane	10.133	849606	25.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

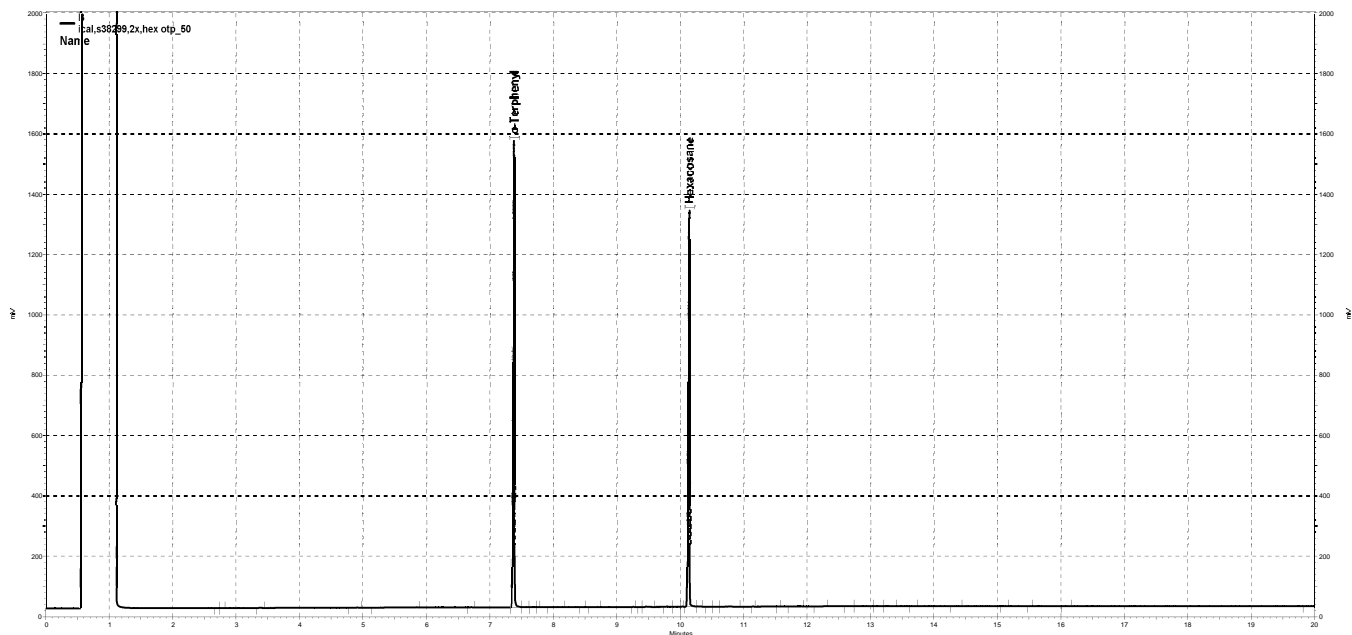
```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

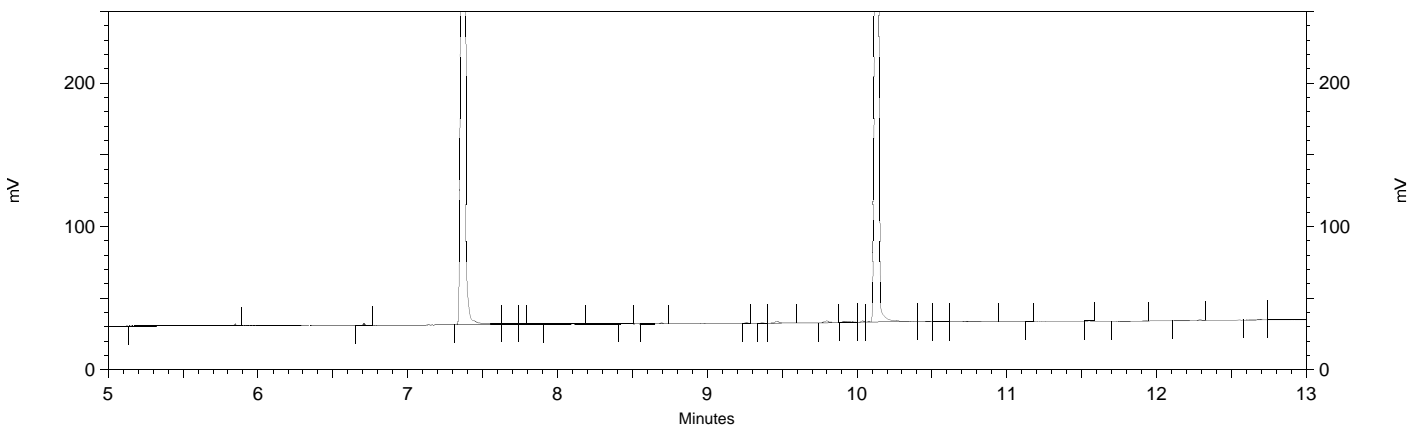


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b012, B

Sample Name: ical,s38299,2x,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b012
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/1/2019 7:26:31 PM
 Analysis Date: 2/1/2019 7:46:39 PM
 Instrument: GC14B Vial: 12 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.380	2226848	42.627
Hexacosane	10.138	1754369	41.686



 << General Method Parameters >>-----

No items selected for this section

 << B >>-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

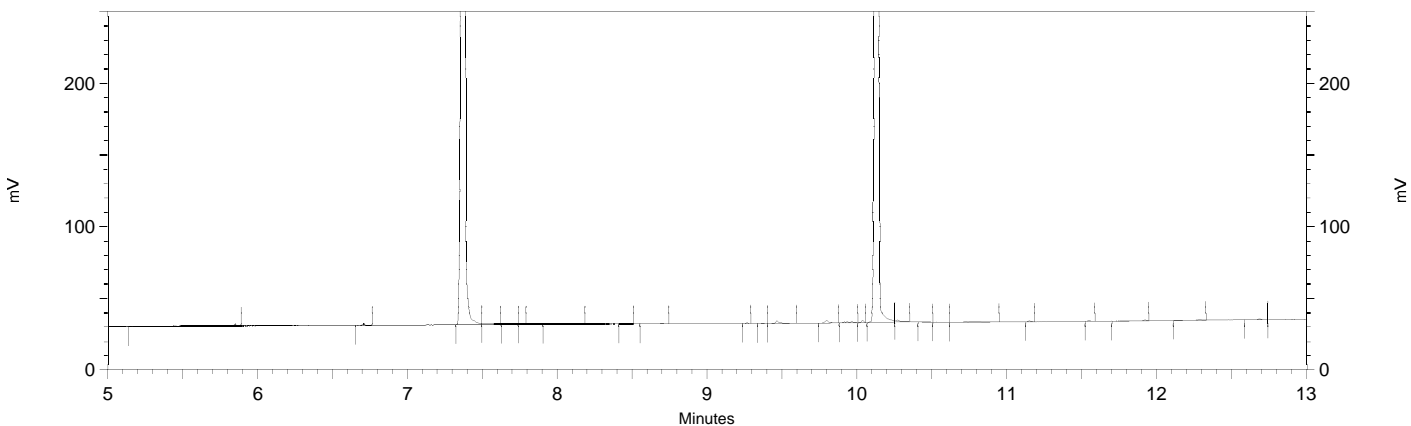
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\032b012_B6CF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s38299,2x,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b012
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 7:26:31 PM
 Analysis Date: 2/4/2019 10:49:52 AM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.380	2224388	50.000 CAL
Hexacosane	10.138	1748729	50.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

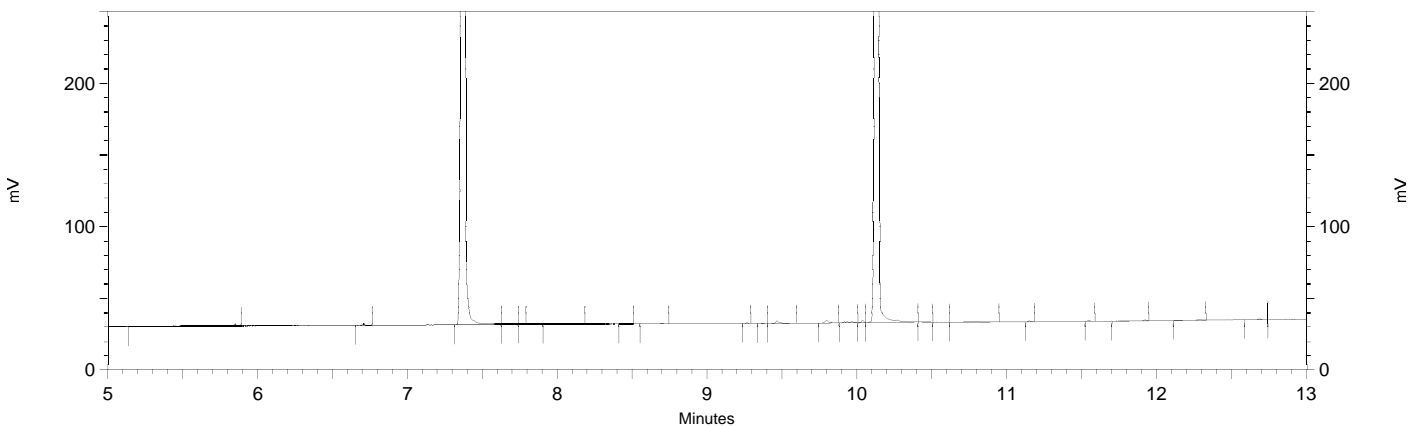
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.323	7.619	0
Yes	Split Peak	7.497	0	0
Yes	Manual Peak	10.067	10.351	0
Yes	Split Peak	10.254	0	0

Sample Name: ical,s38299,2x,hex otp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b012
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 7:26:31 PM
 Analysis Date: 2/4/2019 10:44:07 AM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.380	2226848	50.000 CAL
Hexacosane	10.138	1754369	50.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

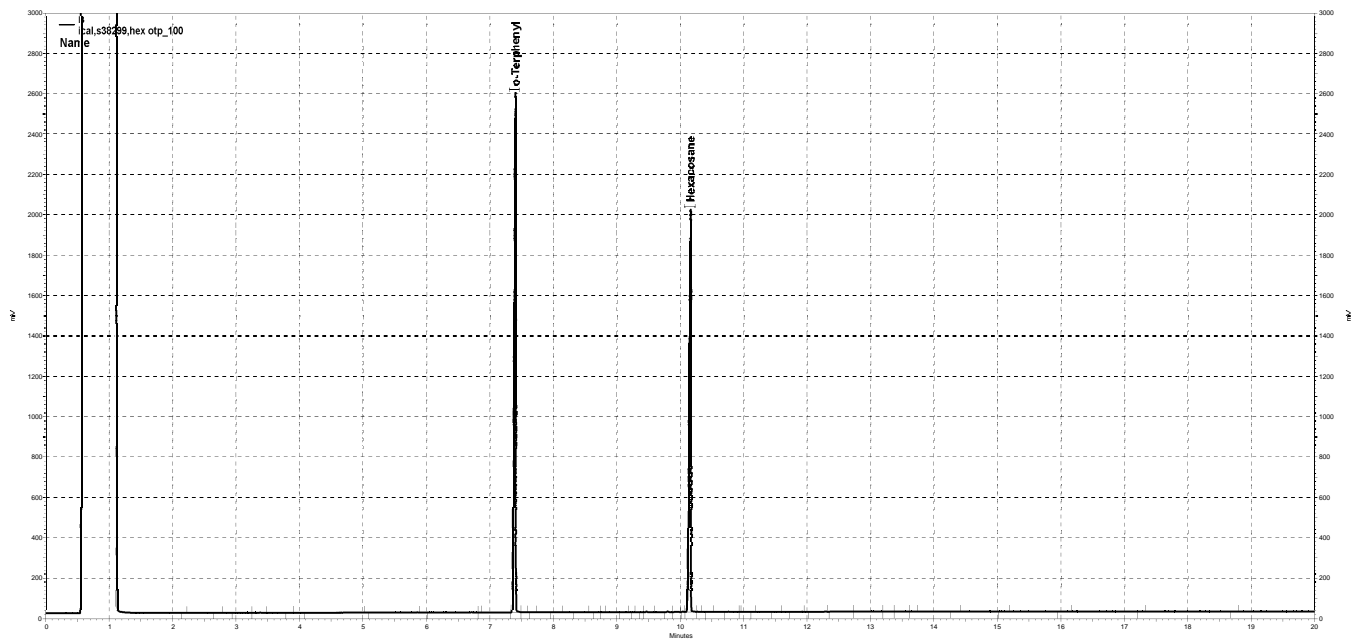
```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

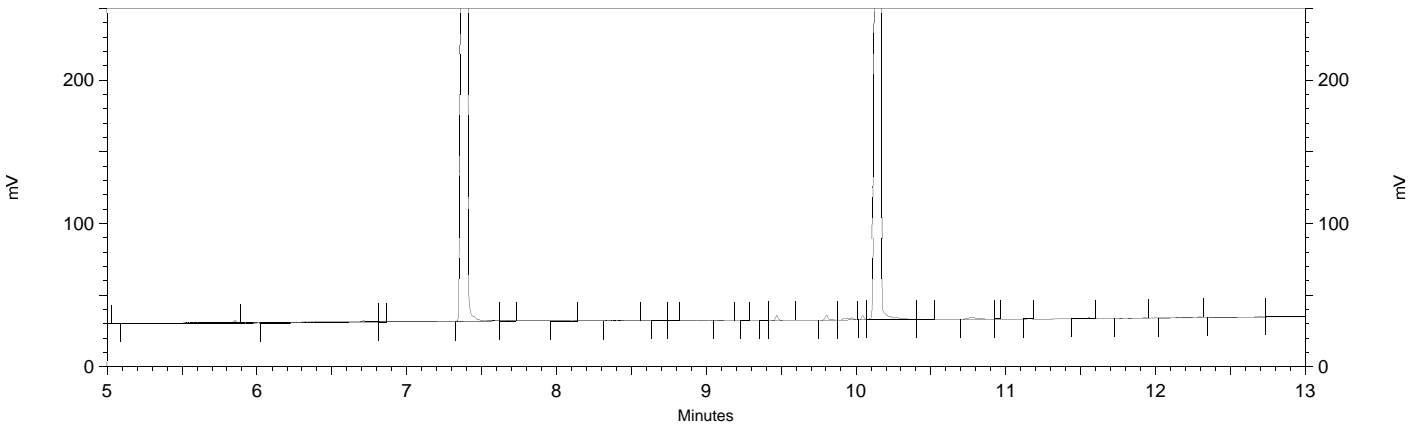


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b013, B

Sample Name: ical,s38299,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b013
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/1/2019 7:53:36 PM
 Analysis Date: 2/1/2019 8:13:44 PM
 Instrument: GC14B Vial: 13 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.402	4313718	82.575
Hexacosane	10.160	3424601	81.373



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

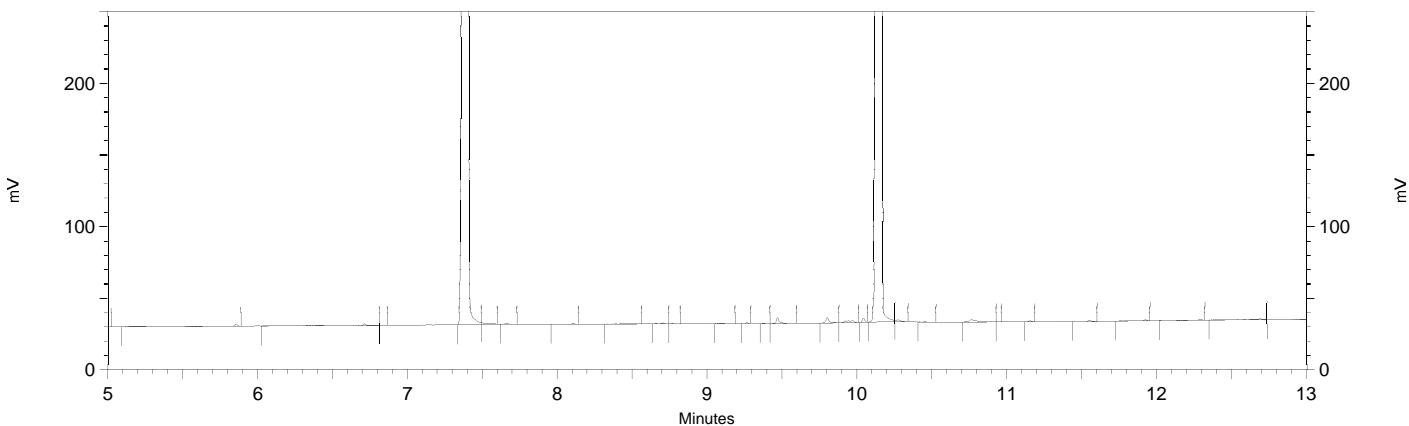
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\032b013_B6D0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s38299,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b013
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 7:53:36 PM
 Analysis Date: 2/4/2019 10:49:56 AM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.402	4309947	100.000 CAL
Hexacosane	10.160	3418187	100.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

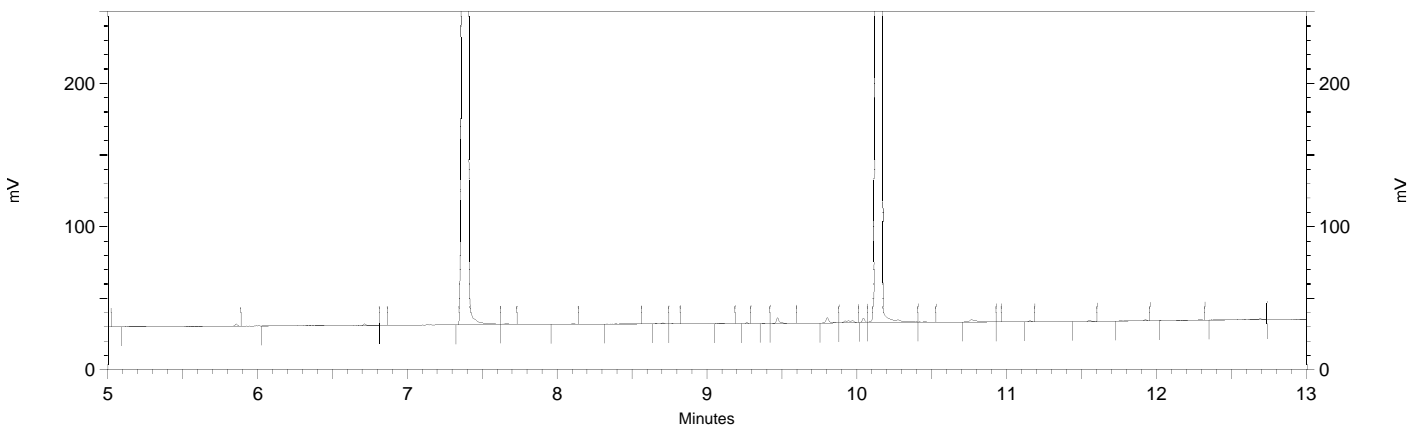
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.332	7.6	0
Yes	Split Peak	7.493	0	0
Yes	Manual Peak	10.075	10.34	0
Yes	Split Peak	10.252	0	0

Sample Name: ical,s38299,hex otp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b013
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 7:53:36 PM
 Analysis Date: 2/4/2019 10:45:11 AM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.402	4313718	100.000 CAL
Hexacosane	10.160	3424601	100.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off     0       2       0
Yes Valley to Valley    0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b013
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229046549002
 Units : mg/L

Name : MO_032
 Date : 01-FEB-2019 20:48
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_015	229046549015	MO_50	01-FEB-2019 20:48	S39615
L2	032_016	229046549016	MO_250	01-FEB-2019 21:15	S39616
L3	032_017	229046549017	MO_500	01-FEB-2019 21:42	S39617
L4	032_018	229046549018	MO_1000	01-FEB-2019 22:10	S39618
L5	032_019	229046549019	MO_2500	01-FEB-2019 22:37	S39614 (2X)
L6	032_020	229046549020	MO_5000	01-FEB-2019 23:04	S39614

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	30493	29047	27885	28353	28408	26280	AVRG		3.52E-5		28411	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	7	250.00	2	500.00	-2	1000.0	0	2500.0	0	5000.0	-8

TKY 02/04/19 : Corrected automatically drawn baseline in MO_50 (032_015).
 TKY 02/04/19 : Corrected automatically drawn baseline in MO_250 (032_016).
 TKY 02/04/19 : Corrected automatically drawn baseline in MO_500 (032_017).
 TKY 02/04/19 : Corrected automatically drawn baseline in MO_1000 (032_018).
 TKY 02/04/19 : Corrected automatically drawn baseline in MO_2500 (032_019).

Analyst: TKY Date: 02/04/19 Reviewer: EAH Date: 02/04/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 229046549002

Name : MO_032
Cal Date : 01-FEB-2019

ICV 229046549022 (032_022 01-FEB-2019) stds: S39627

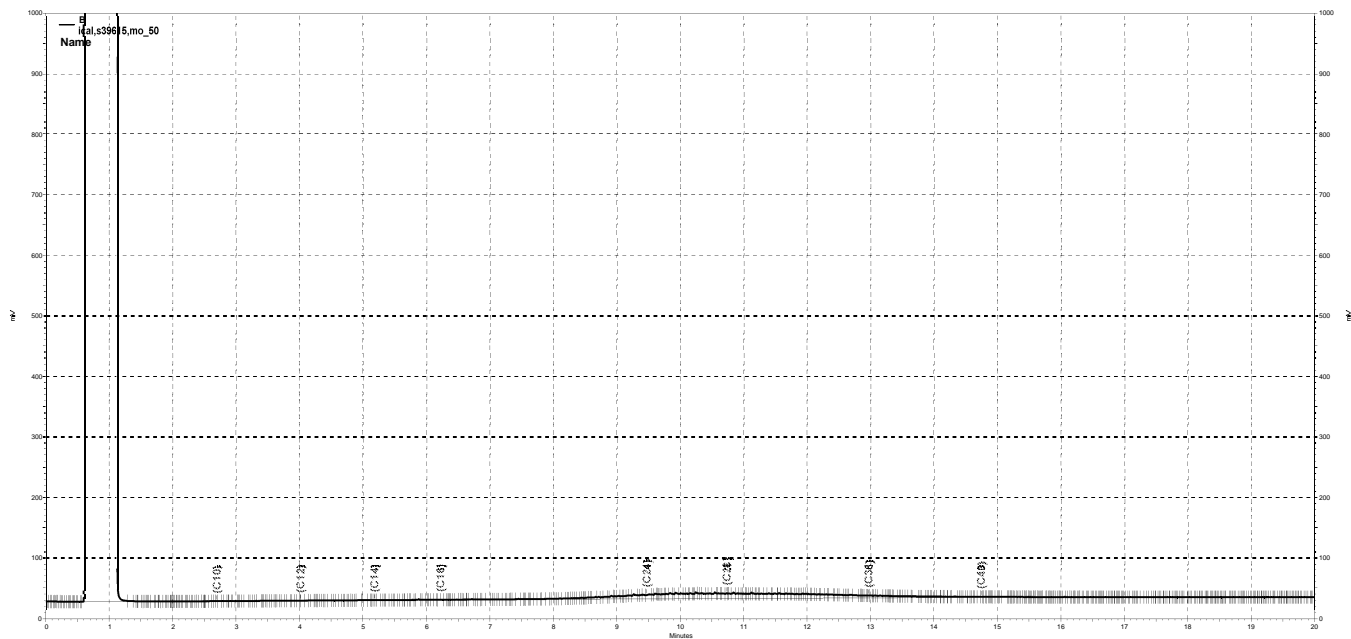
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	B	500.0	475.9	mg/L	-5	15	

Analyst: TKY

Date: 02/04/19

Reviewer: EAH

Date: 02/04/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b015, B

Sample Name: ical,s39615,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 8:48:29 PM
 Analysis Date: 2/4/2019 11:10:05 AM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	15795	0.000 CAL
DSL:10-14	9788	0.000 CAL
DSL:10-22	155621	0.000 CAL
DSL:10-24	379896	0.000 CAL
DSL:10-28	987558	0.000 CAL
DSL:12-24	374868	0.000 CAL
DSL:12-28	982530	0.000 CAL
DSL:14-24	370701	0.000 CAL
DSL:16-24	365029	0.000 CAL
MO:22-32	1363903	50.000 CAL
MO:24-36	1524641	50.000 CAL
MO:28-40	1138253	50.000 CAL
BUNKC:10-40	2053209	0.000 CAL
BUNKC:12-40	2048181	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

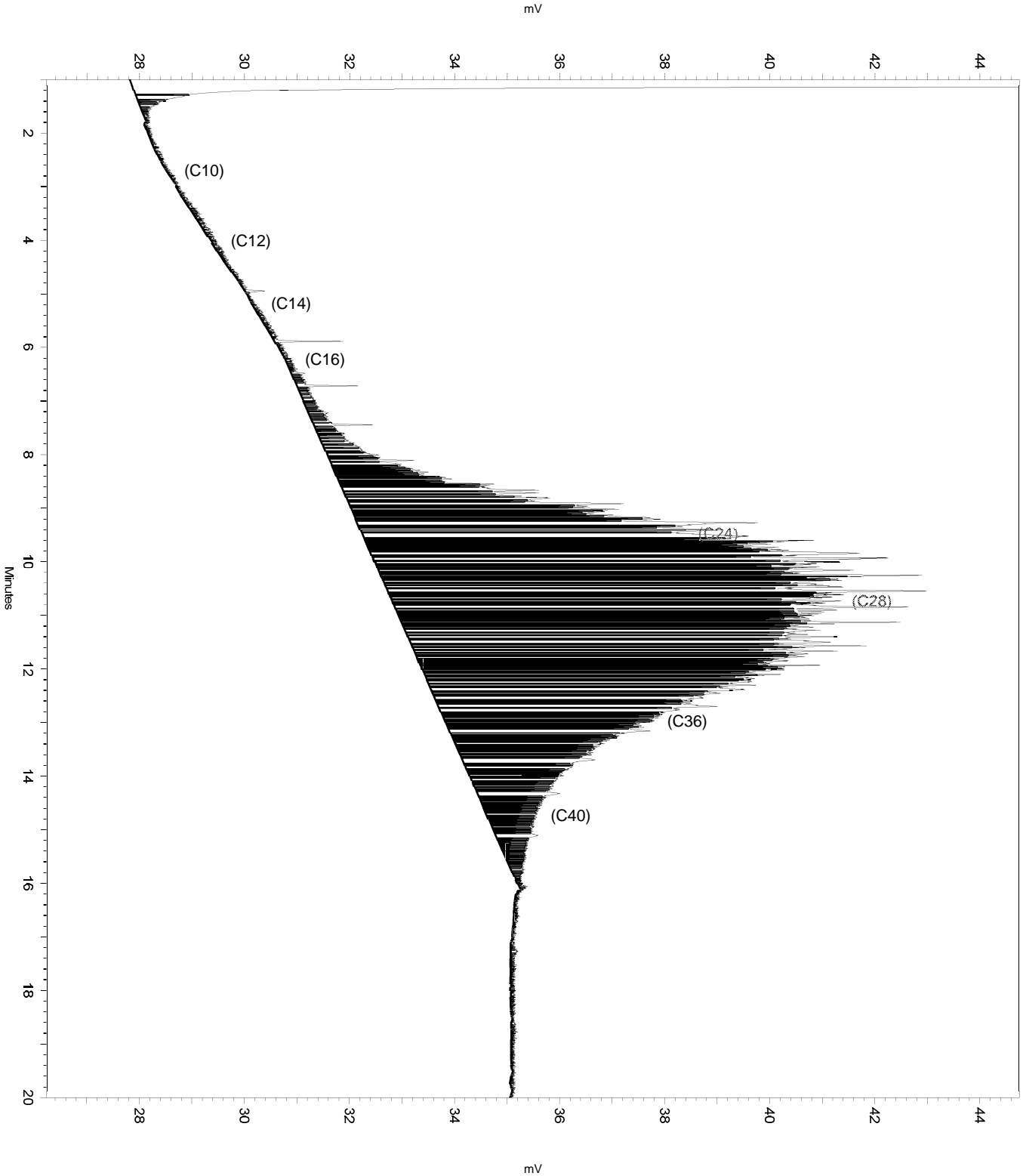
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	7.132	16.141	0

Sample Name: ical,s39615,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 8:48:29 PM
Analysis Date: 2/4/2019 11:10:05 AM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39615,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 8:48:29 PM
 Analysis Date: 2/4/2019 10:55:50 AM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	15505	0.000 CAL
DSL:10-14	9788	0.000 CAL
DSL:10-22	37720	0.000 CAL
DSL:10-24	93510	0.000 CAL
DSL:10-28	424760	0.000 CAL
DSL:12-24	88482	0.000 CAL
DSL:12-28	419732	0.000 CAL
DSL:14-24	84315	0.000 CAL
DSL:16-24	78643	0.000 CAL
MO:22-32	691869	50.000 CAL
MO:24-36	856316	50.000 CAL
MO:28-40	603348	50.000 CAL
BUNKC:10-40	986040	0.000 CAL
BUNKC:12-40	981012	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

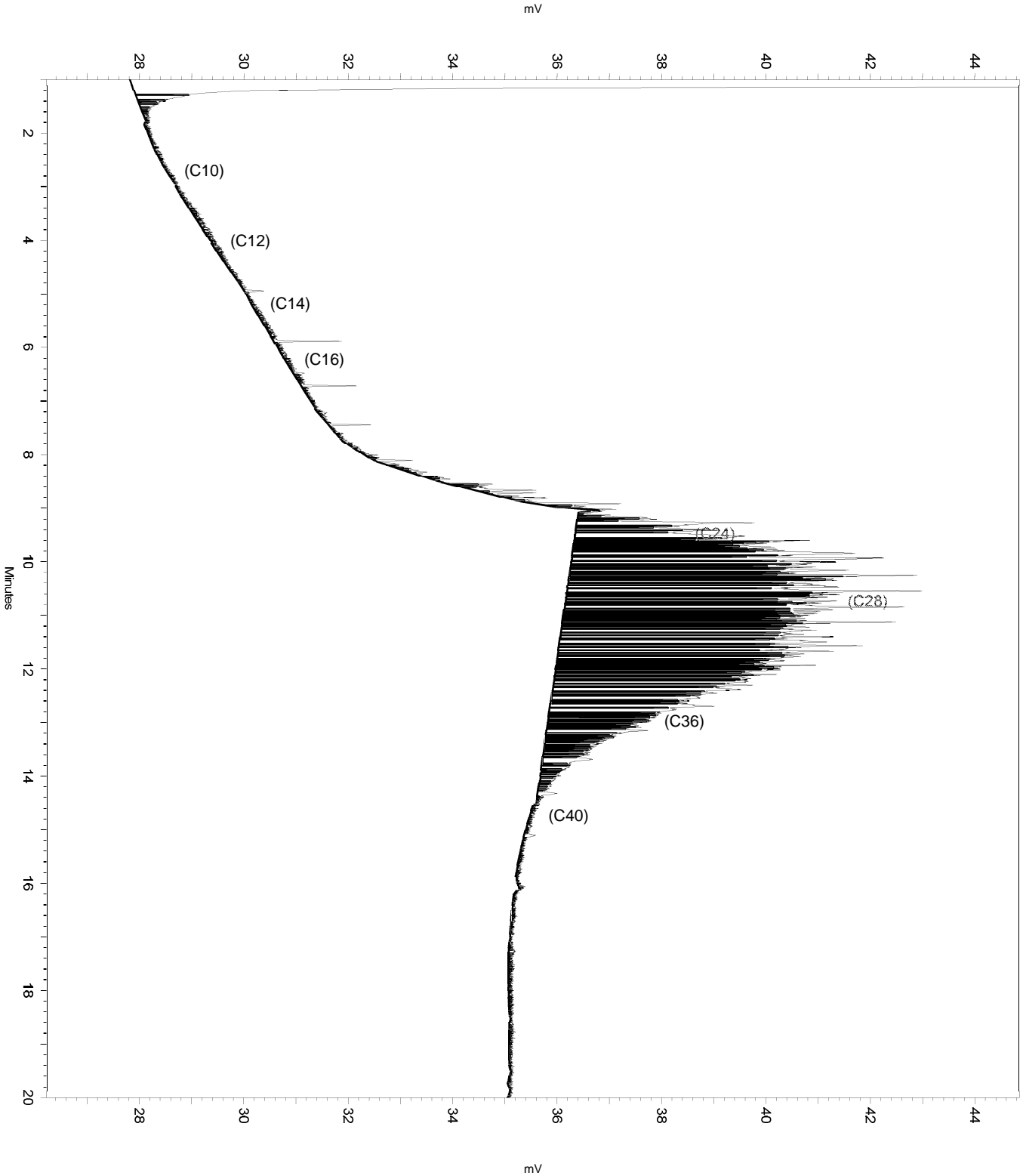
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b015				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Stop	7.132	18.399	0

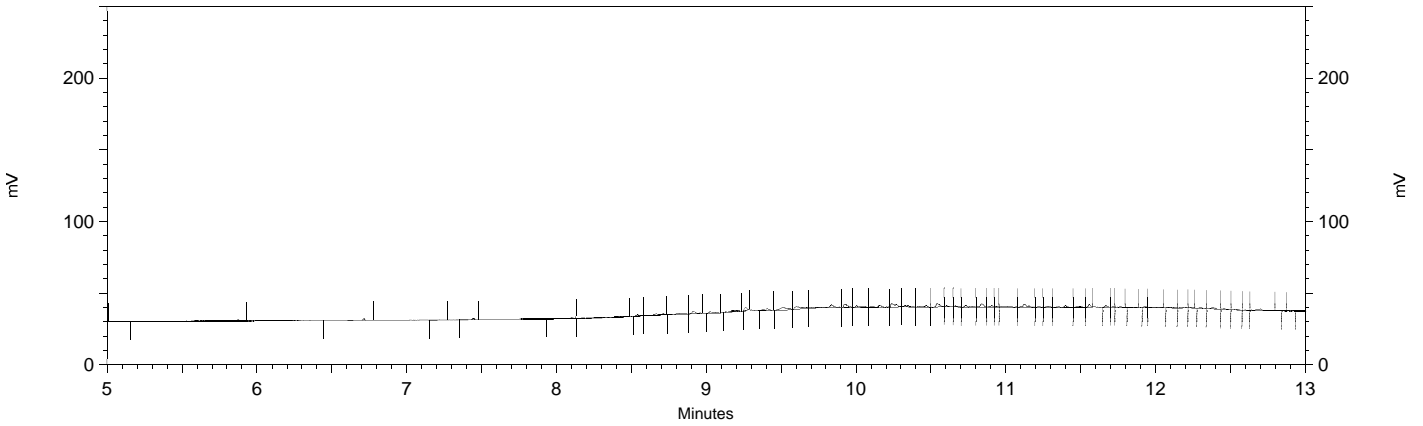
Sample Name: ical,s39615,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 8:48:29 PM
Analysis Date: 2/4/2019 10:55:50 AM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39615,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/1/2019 8:48:29 PM
 Analysis Date: 2/1/2019 9:08:38 PM
 Instrument: GC14B Vial: 15 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.448	1063	0.020
Hexacosane	10.162	4685	0.111



 < General Method Parameters >-----

No items selected for this section

 < B >-----

No items selected for this section

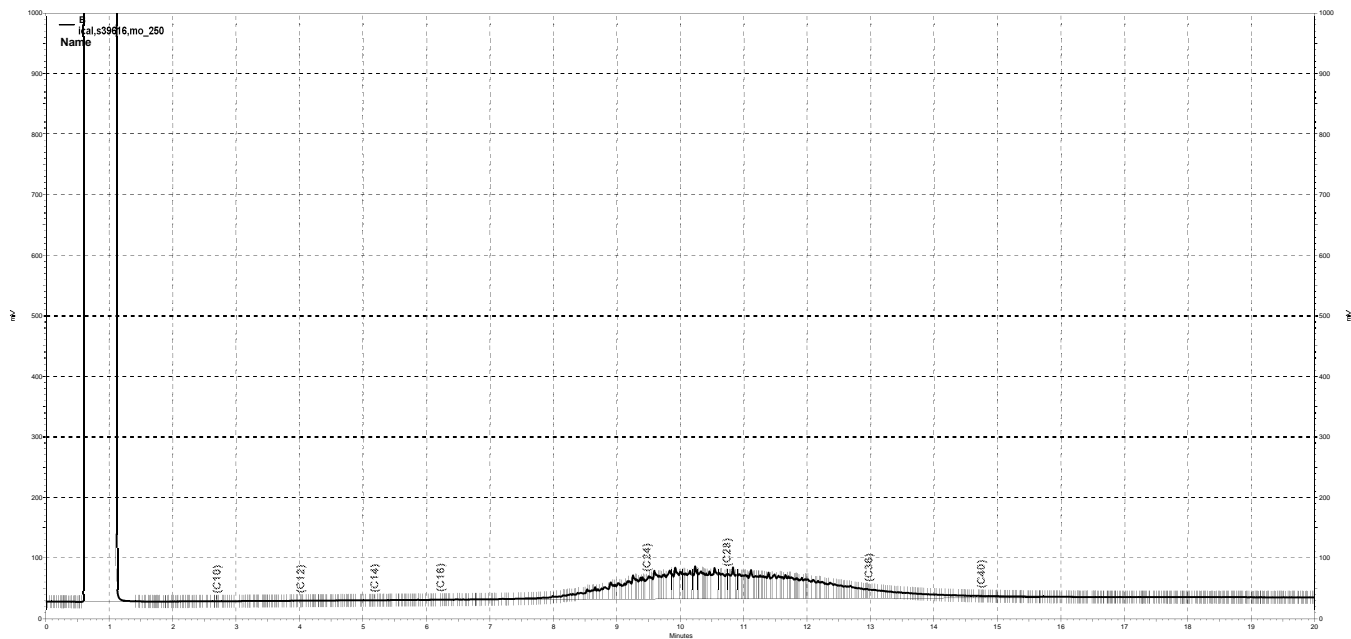
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\032b015_B6D2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b016, B

Sample Name: ical,s39616,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b016
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 9:15:34 PM
 Analysis Date: 2/4/2019 11:10:11 AM
 Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	15358	0.000 CAL
DSL:10-14	10983	0.000 CAL
DSL:10-22	675011	0.000 CAL
DSL:10-24	1815999	0.000 CAL
DSL:10-28	4869067	0.000 CAL
DSL:12-24	1810508	0.000 CAL
DSL:12-28	4863576	0.000 CAL
DSL:14-24	1805692	0.000 CAL
DSL:16-24	1801314	0.000 CAL
MO:22-32	6721199	250.000 CAL
MO:24-36	7261864	250.000 CAL
MO:28-40	4958835	250.000 CAL
BUNKC:10-40	9492025	0.000 CAL
BUNKC:12-40	9486534	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

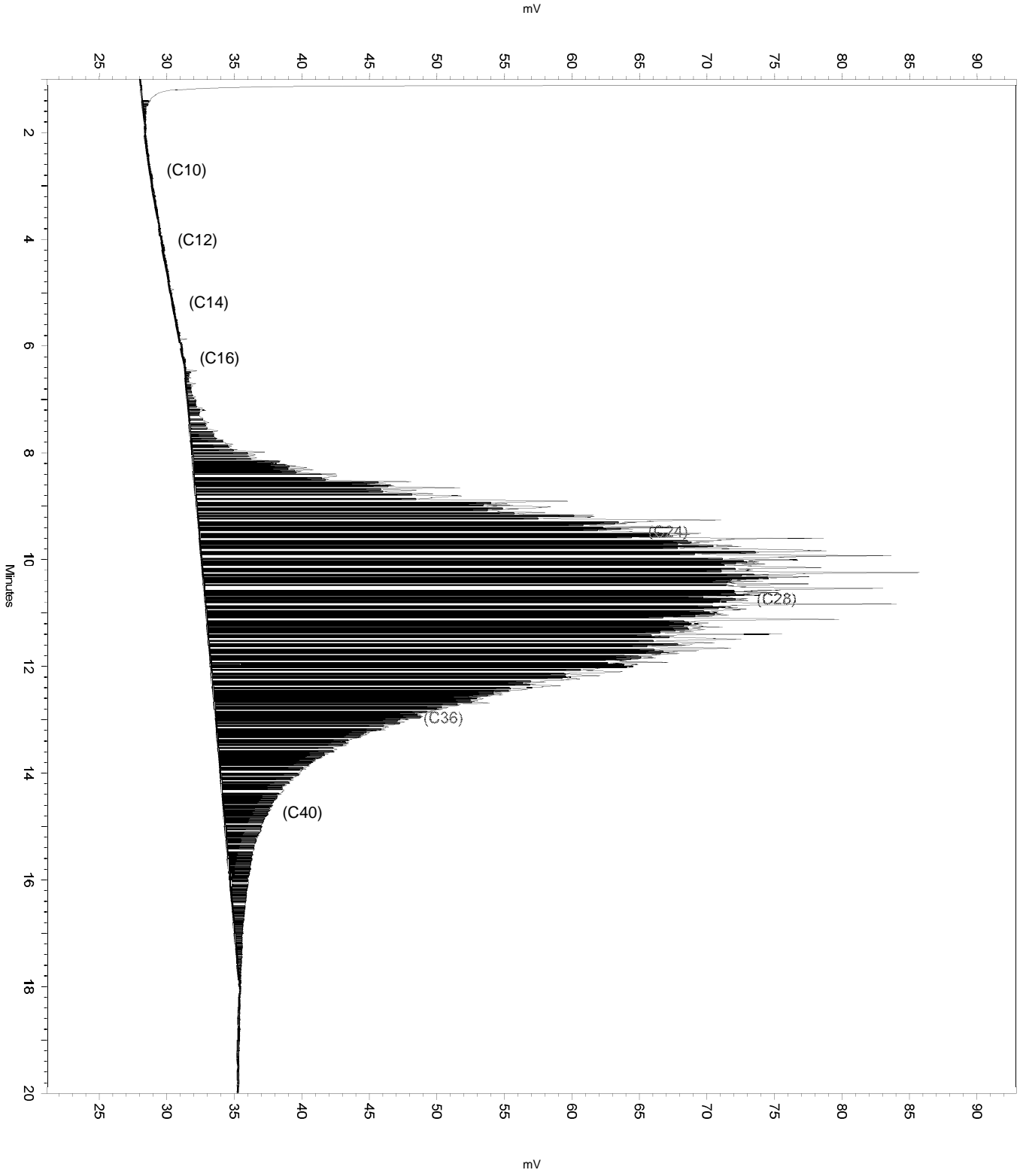
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	6.867	18.034	0

Sample Name: ical,s39616,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b016
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 9:15:34 PM
Analysis Date: 2/4/2019 11:10:11 AM
Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39616,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b016
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 9:15:34 PM
 Analysis Date: 2/4/2019 10:46:54 AM
 Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	15358	0.000 CAL
DSL:10-14	10983	0.000 CAL
DSL:10-22	565069	0.000 CAL
DSL:10-24	1648333	0.000 CAL
DSL:10-28	4567533	0.000 CAL
DSL:12-24	1642842	0.000 CAL
DSL:12-28	4562042	0.000 CAL
DSL:14-24	1638026	0.000 CAL
DSL:16-24	1633648	0.000 CAL
MO:22-32	6372037	250.000 CAL
MO:24-36	6786641	250.000 CAL
MO:28-40	4283282	250.000 CAL
BUNKC:10-40	8532097	0.000 CAL
BUNKC:12-40	8526606	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

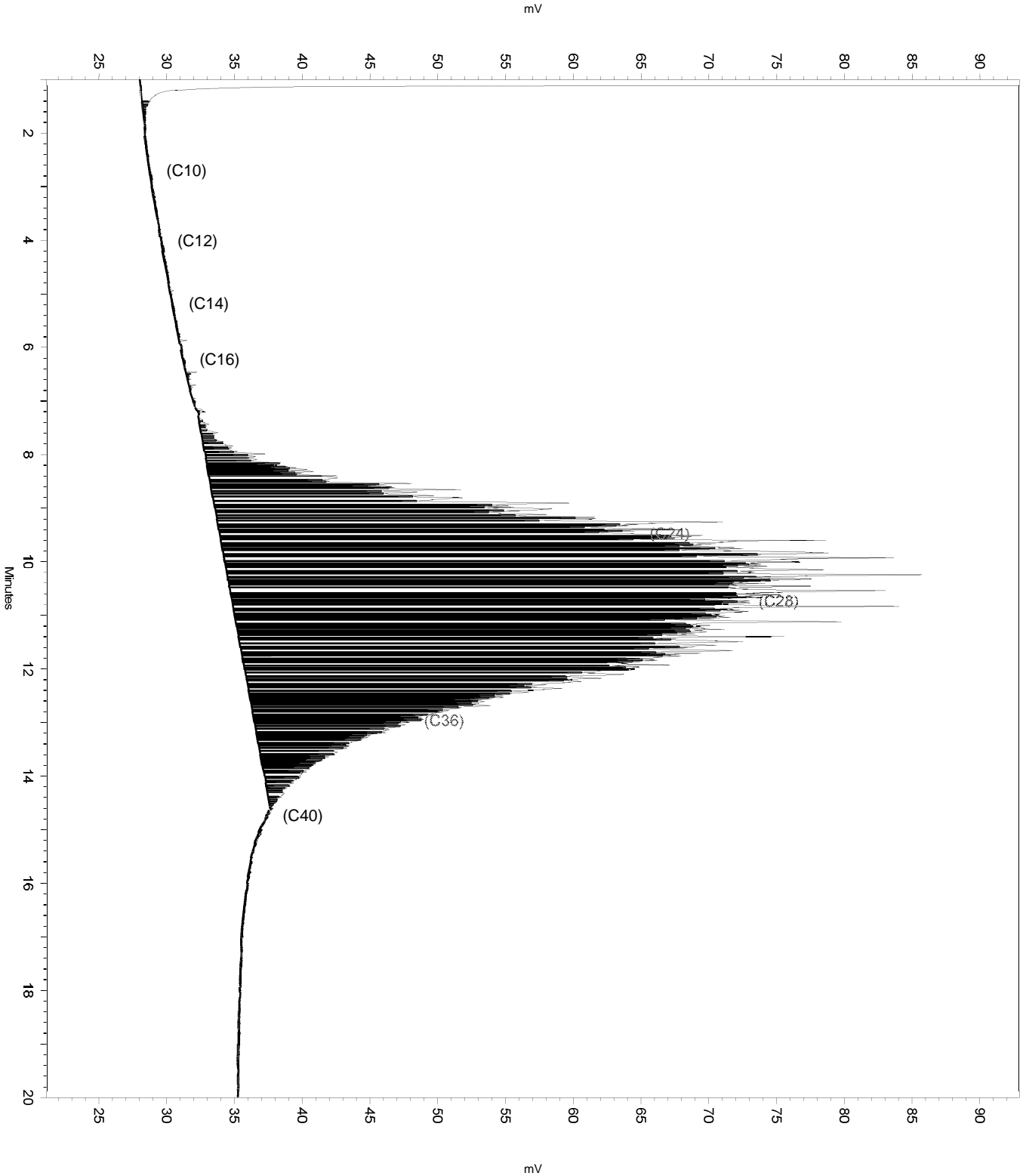
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

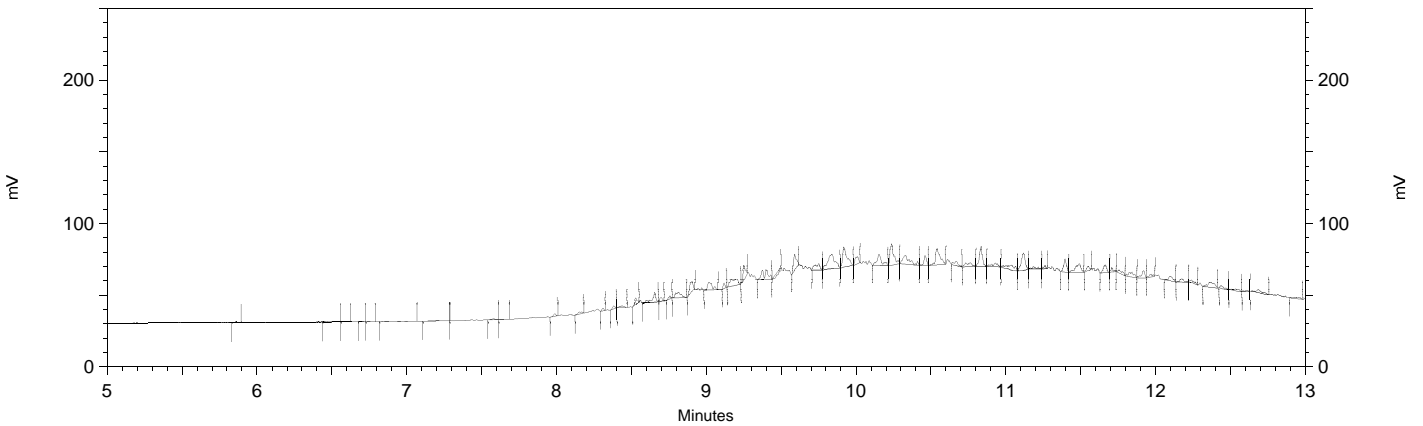
Sample Name: ical,s39616,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b016
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 9:15:34 PM
Analysis Date: 2/4/2019 10:46:54 AM
Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39616,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b016
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/1/2019 9:15:34 PM
 Analysis Date: 2/1/2019 9:35:43 PM
 Instrument: GC14B Vial: 16 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	10.155	16458	0.391



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

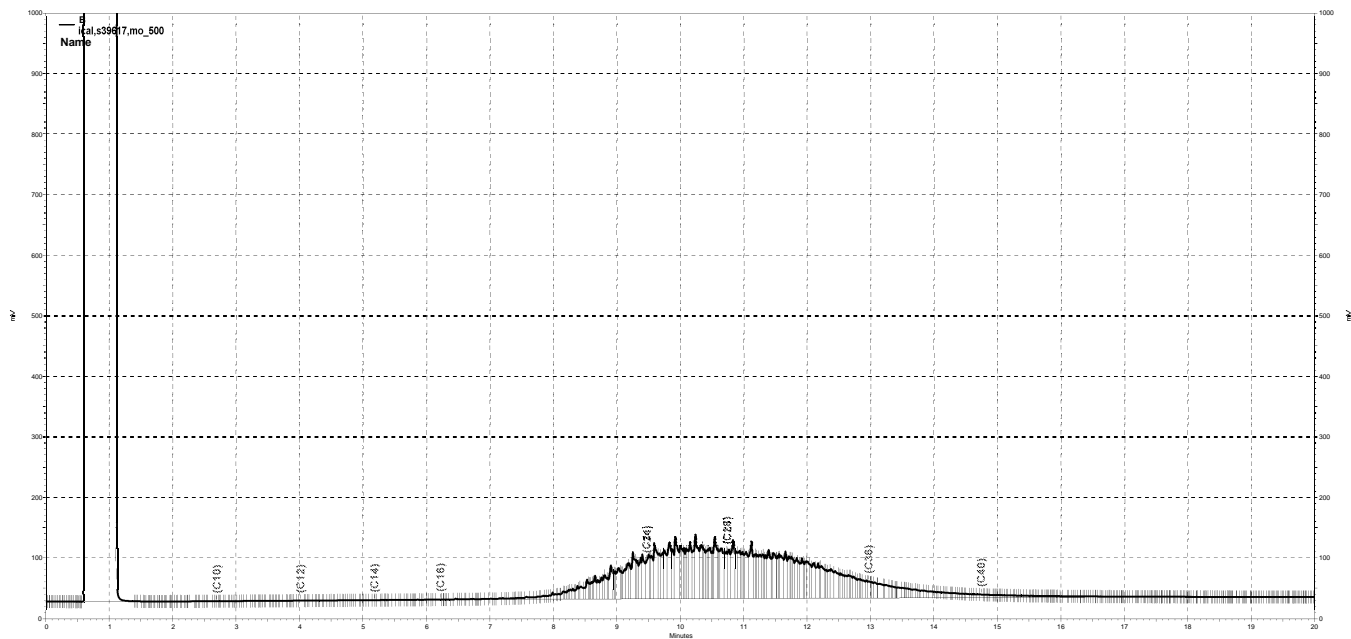
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\032b016_B6D3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b017, B

Sample Name: ical,s39617,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b017
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 9:42:56 PM
 Analysis Date: 2/4/2019 11:10:17 AM
 Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	17169	0.000 CAL
DSL:10-14	11443	0.000 CAL
DSL:10-22	1225300	0.000 CAL
DSL:10-24	3593390	0.000 CAL
DSL:10-28	9295971	0.000 CAL
DSL:12-24	3588776	0.000 CAL
DSL:12-28	9291357	0.000 CAL
DSL:14-24	3582632	0.000 CAL
DSL:16-24	3577178	0.000 CAL
MO:22-32	12969590	500.000 CAL
MO:24-36	13942578	500.000 CAL
MO:28-40	9229397	500.000 CAL
BUNKC:10-40	18074000	0.000 CAL
BUNKC:12-40	18069384	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

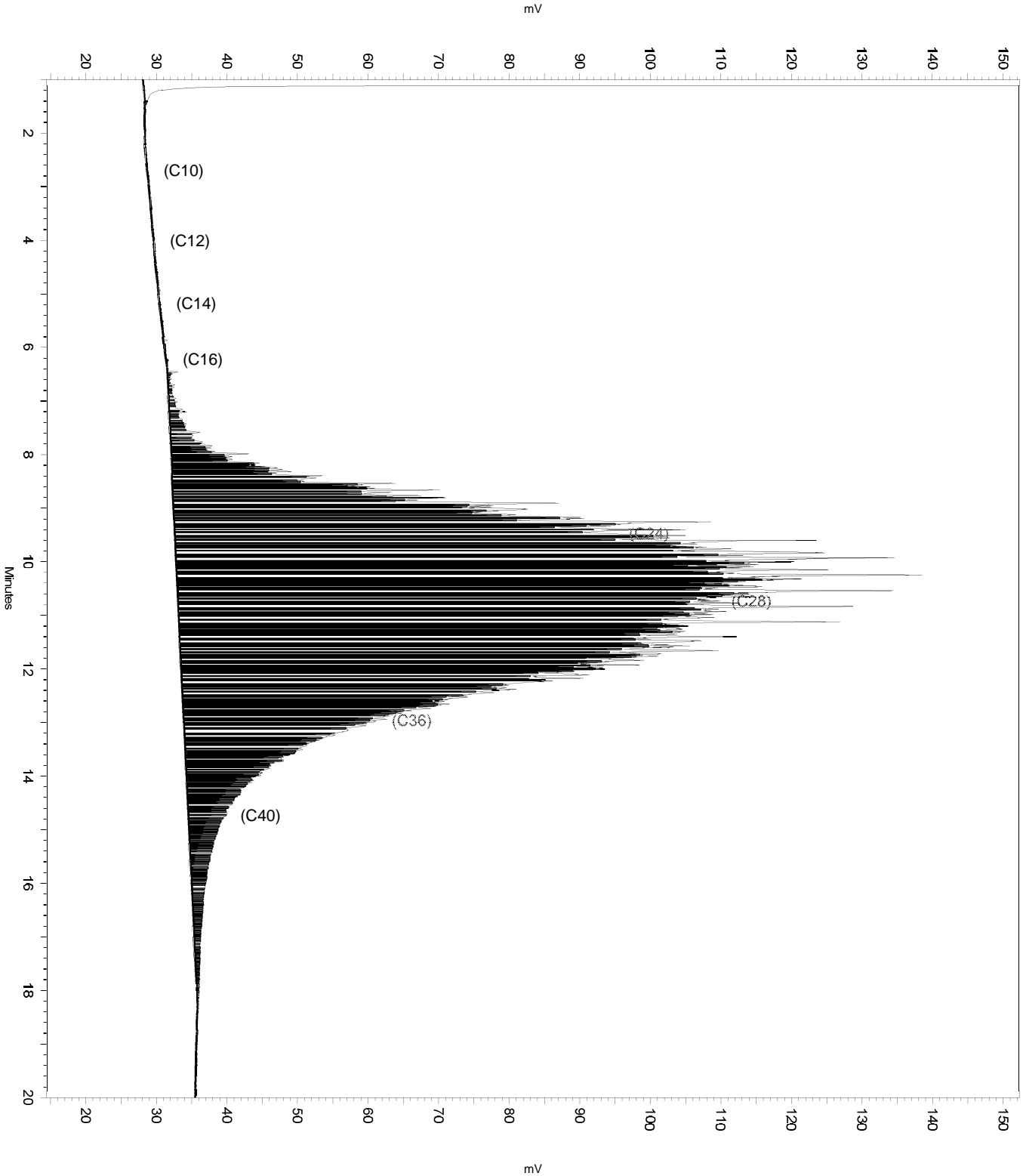
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	6.822	18.299	0

Sample Name: ical,s39617,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b017
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 9:42:56 PM
Analysis Date: 2/4/2019 11:10:17 AM
Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39617,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b017
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 9:42:56 PM
 Analysis Date: 2/4/2019 10:47:18 AM
 Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	17169	0.000 CAL
DSL:10-14	11443	0.000 CAL
DSL:10-22	250360	0.000 CAL
DSL:10-24	974744	0.000 CAL
DSL:10-28	2122953	0.000 CAL
DSL:12-24	970130	0.000 CAL
DSL:12-28	2118339	0.000 CAL
DSL:14-24	963986	0.000 CAL
DSL:16-24	958532	0.000 CAL
MO:22-32	2608655	500.000 CAL
MO:24-36	2443109	500.000 CAL
MO:28-40	1145012	500.000 CAL
BUNKC:10-40	3250665	0.000 CAL
BUNKC:12-40	3246051	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

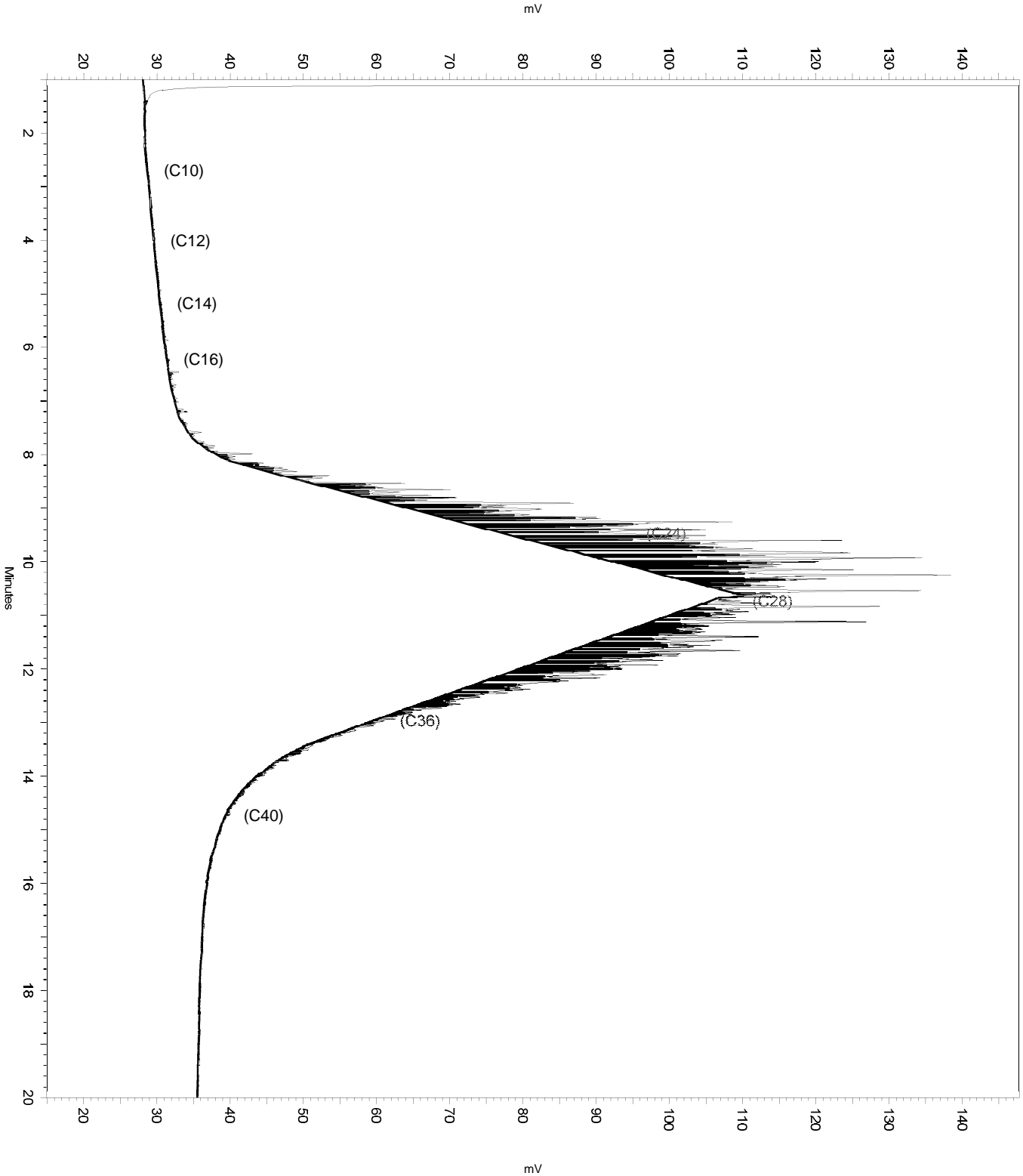
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

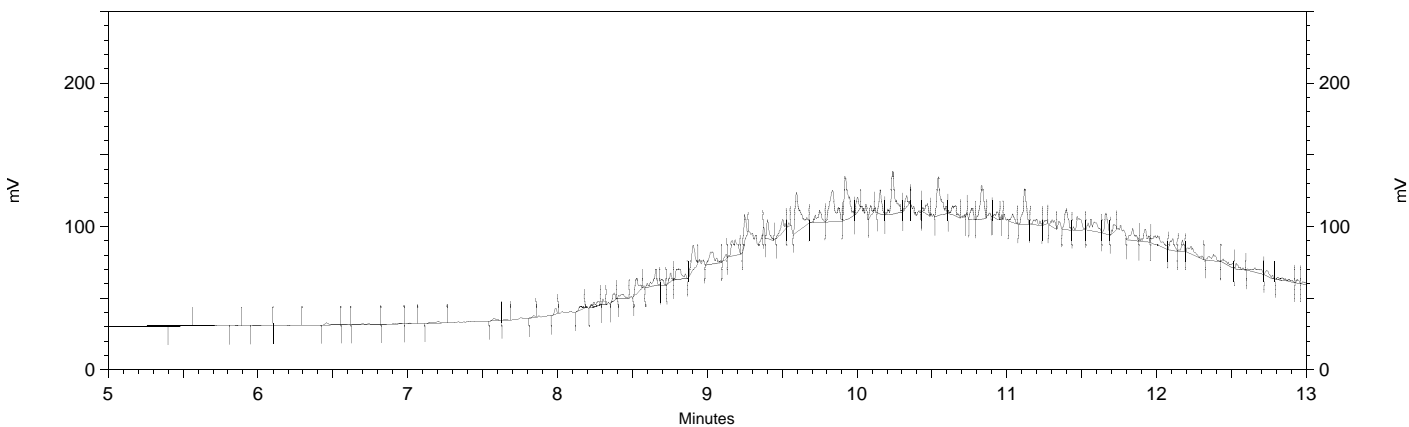
Sample Name: ical,s39617,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b017
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 9:42:56 PM
Analysis Date: 2/4/2019 10:47:18 AM
Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39617,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b017
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/1/2019 9:42:56 PM
 Analysis Date: 2/1/2019 10:03:04 PM
 Instrument: GC14B Vial: 17 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	10.157	20002	0.475



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

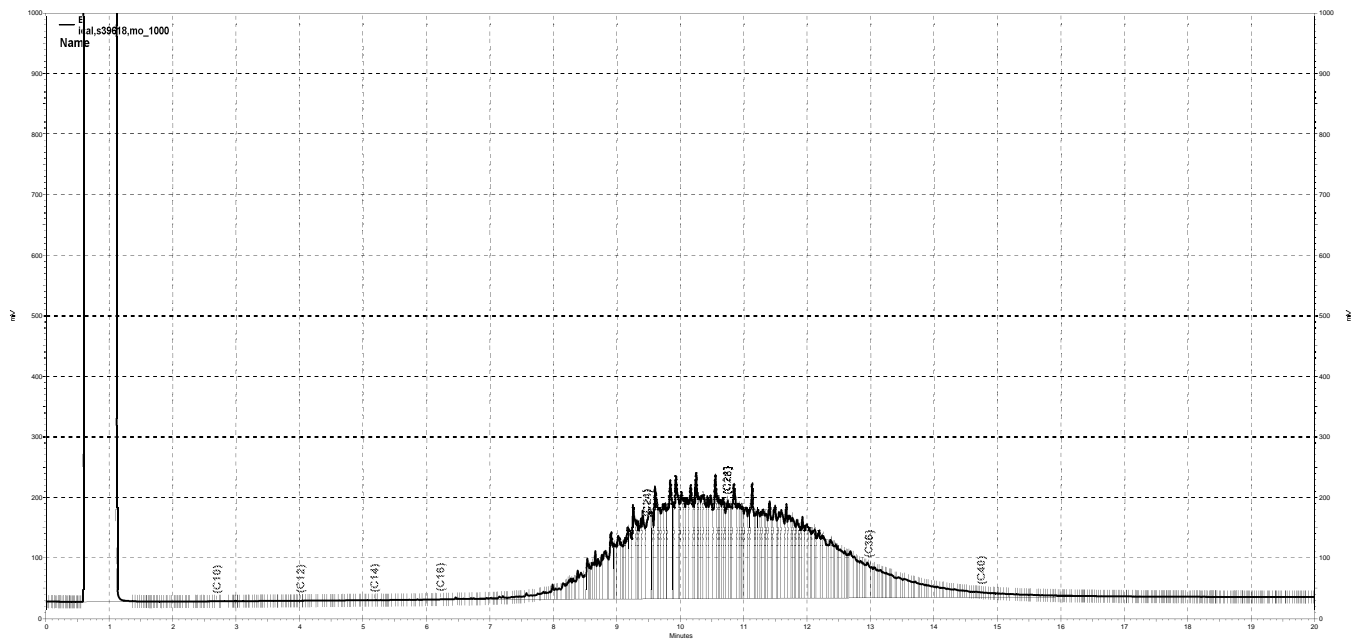
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\032b017_B6D4.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b018, B

Sample Name: ical,s39618,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b018
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 10:10:11 PM
 Analysis Date: 2/4/2019 11:10:23 AM
 Instrument: GC14B Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	41050	0.000 CAL
DSL:10-14	14226	0.000 CAL
DSL:10-22	2580572	0.000 CAL
DSL:10-24	7082587	0.000 CAL
DSL:10-28	19372304	0.000 CAL
DSL:12-24	7077185	0.000 CAL
DSL:12-28	19366900	0.000 CAL
DSL:14-24	7069989	0.000 CAL
DSL:16-24	7050287	0.000 CAL
MO:22-32	26696688	1000.000 CAL
MO:24-36	28353368	1000.000 CAL
MO:28-40	18768228	1000.000 CAL
BUNKC:10-40	36618584	0.000 CAL
BUNKC:12-40	36613184	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

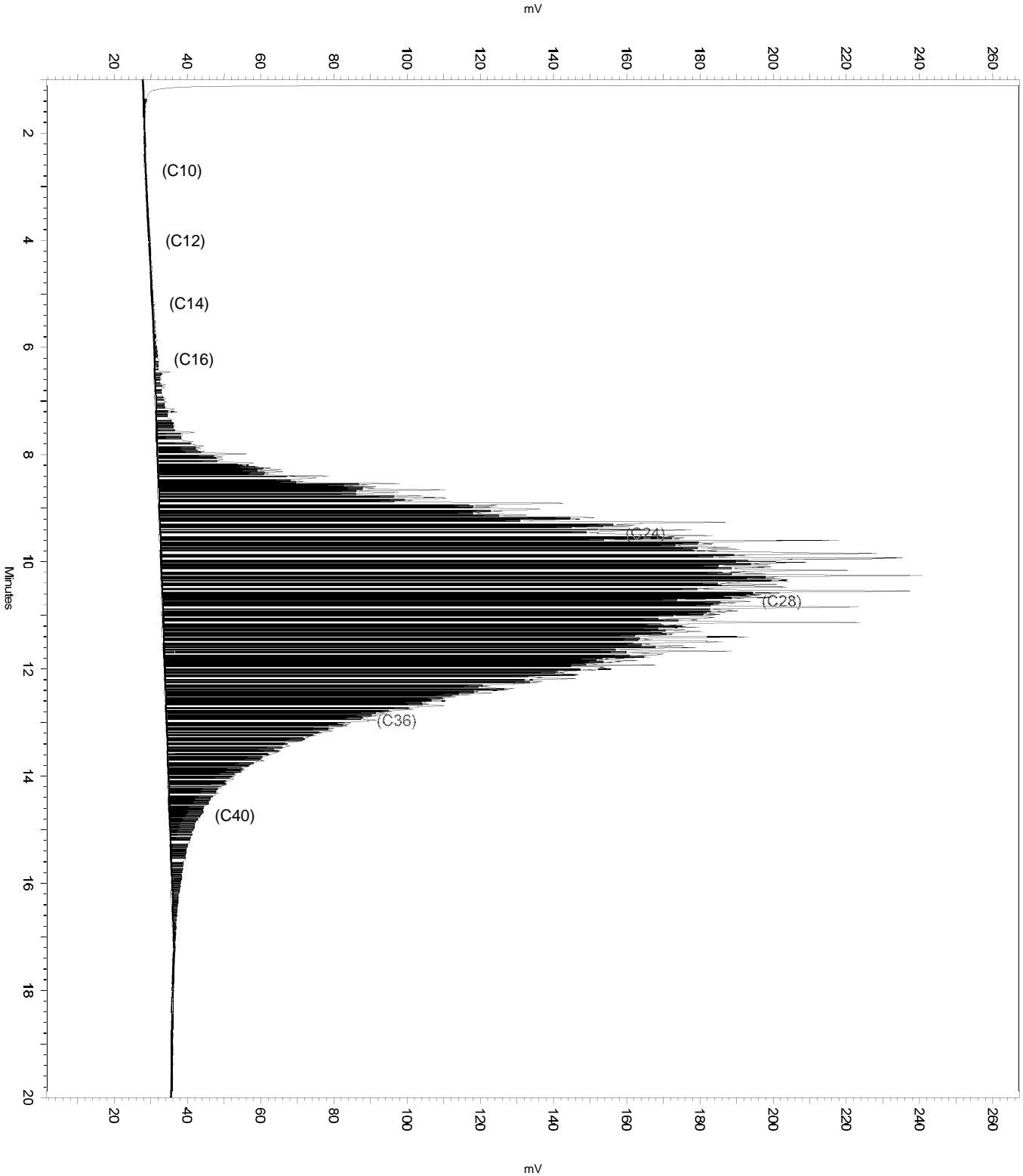
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	15.18	17.27	0

Sample Name: ical,s39618,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b018
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 10:10:11 PM
Analysis Date: 2/4/2019 11:10:23 AM
Instrument: GC14B Vial: 18 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39618,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b018
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 10:10:11 PM
 Analysis Date: 2/4/2019 10:47:51 AM
 Instrument: GC14B Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	28000	0.000 CAL
DSL:10-14	14226	0.000 CAL
DSL:10-22	2394029	0.000 CAL
DSL:10-24	6814312	0.000 CAL
DSL:10-28	18912992	0.000 CAL
DSL:12-24	6808910	0.000 CAL
DSL:12-28	18907592	0.000 CAL
DSL:14-24	6801714	0.000 CAL
DSL:16-24	6790457	0.000 CAL
MO:22-32	26201164	1000.000 CAL
MO:24-36	27683992	1000.000 CAL
MO:28-40	17808996	1000.000 CAL
BUNKC:10-40	35227640	0.000 CAL
BUNKC:12-40	35222240	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

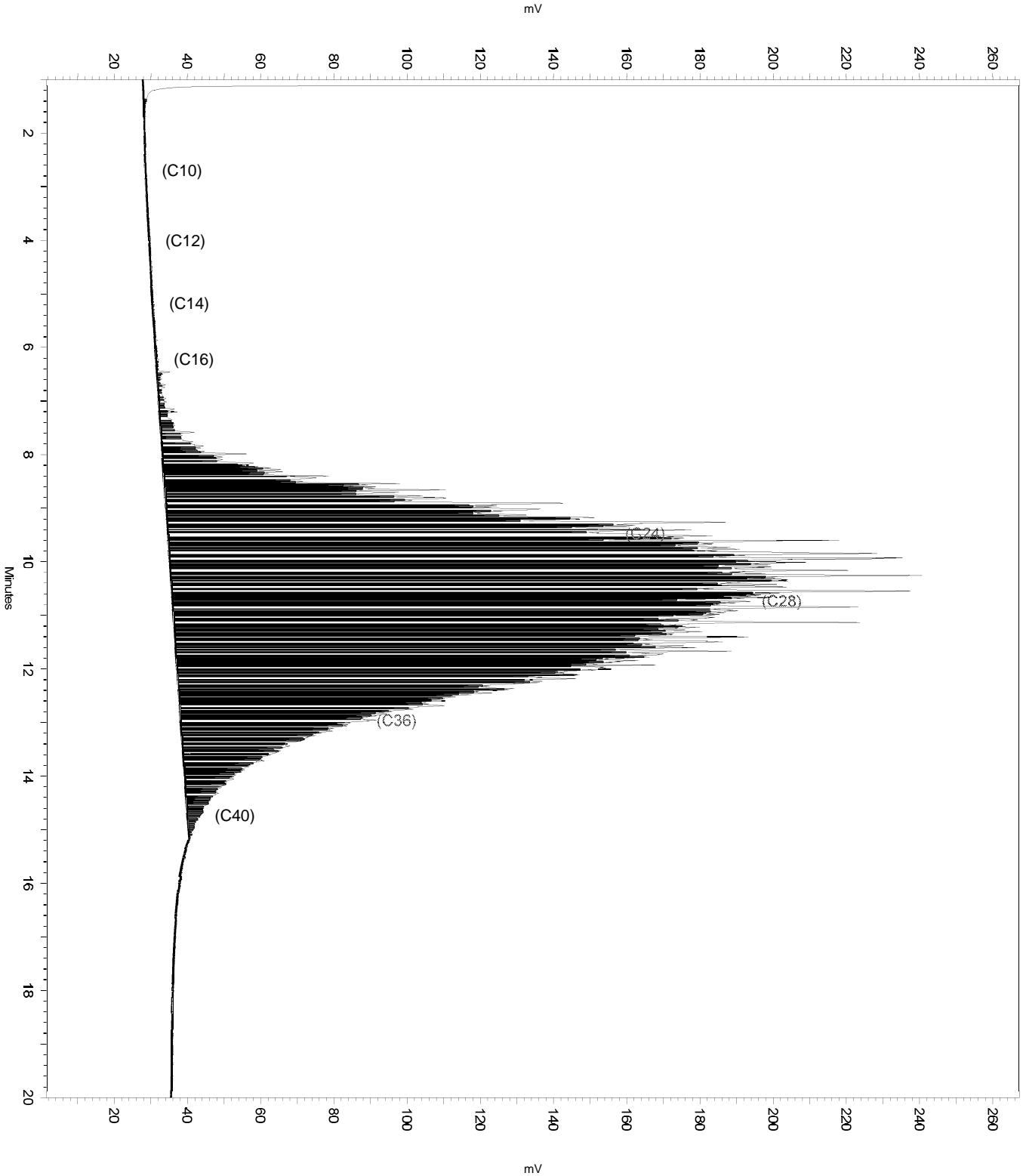
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

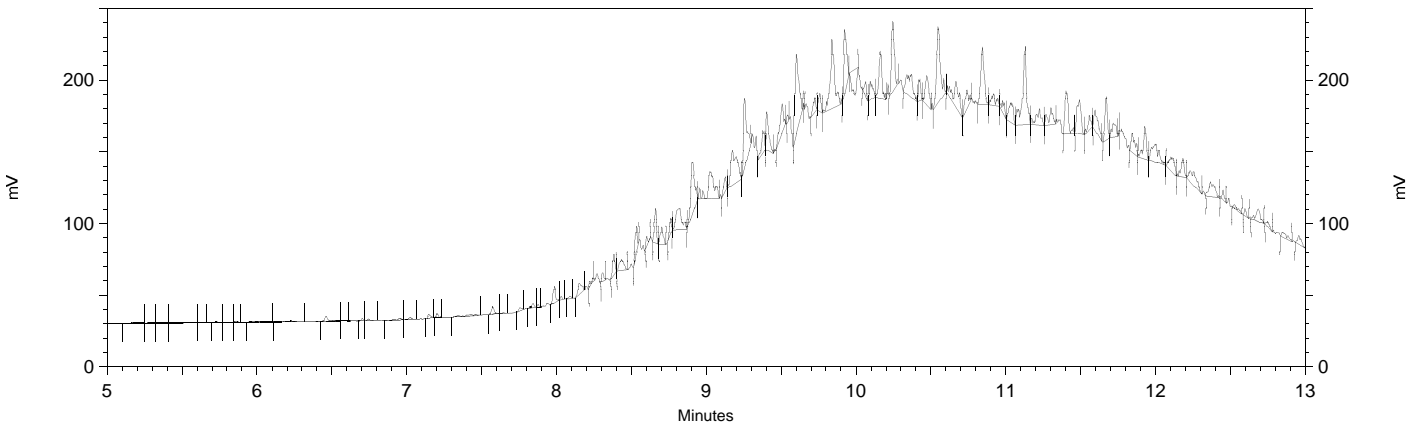
Sample Name: ical,s39618,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b018
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 10:10:11 PM
Analysis Date: 2/4/2019 10:47:51 AM
Instrument: GC14B Vial: 18 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39618,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b018
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/1/2019 10:10:11 PM
 Analysis Date: 2/1/2019 10:30:20 PM
 Instrument: GC14B Vial: 18 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.463	6369	0.122
Hexacosane	10.165	46971	1.116



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

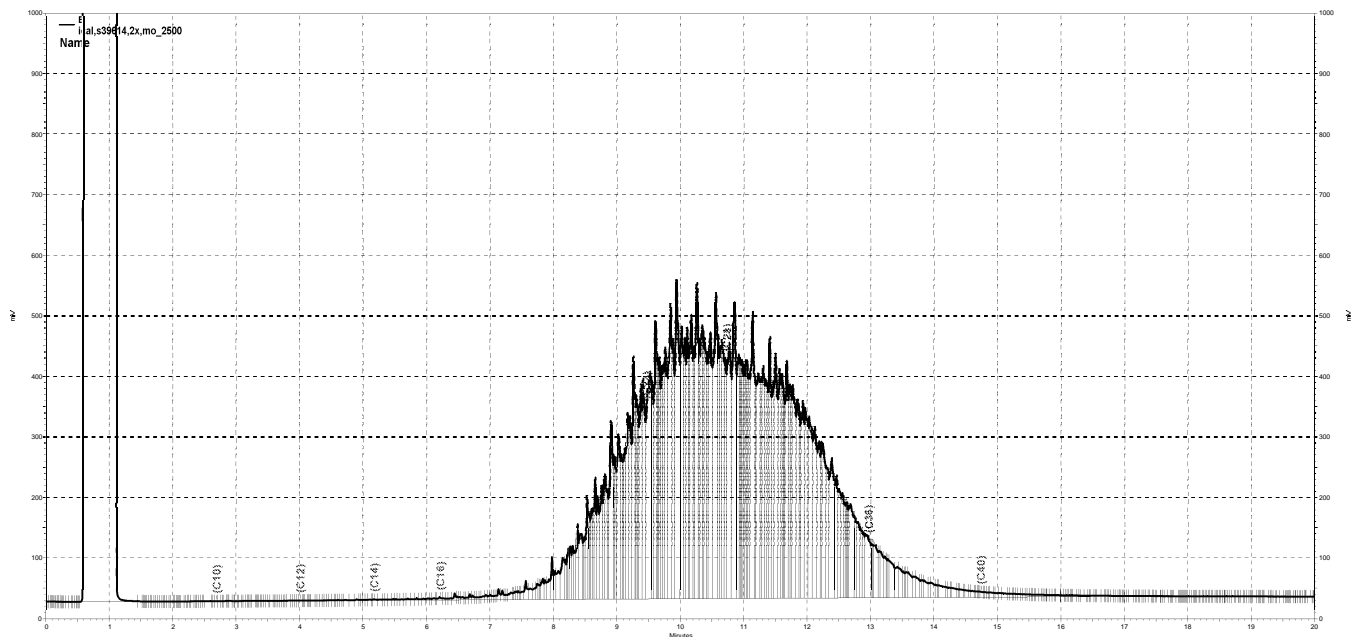
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\032b018_B6D5.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b019, B

Sample Name: ical,s39614,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 10:37:16 PM
 Analysis Date: 2/4/2019 11:10:29 AM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	163019	0.000 CAL
DSL:10-14	49351	0.000 CAL
DSL:10-22	6892855	0.000 CAL
DSL:10-24	18634692	0.000 CAL
DSL:10-28	49679880	0.000 CAL
DSL:12-24	18626260	0.000 CAL
DSL:12-28	49671448	0.000 CAL
DSL:14-24	18591860	0.000 CAL
DSL:16-24	18498676	0.000 CAL
MO:22-32	68249536	2500.000 CAL
MO:24-36	71020408	2500.000 CAL
MO:28-40	42915640	2500.000 CAL
BUNKC:10-40	89934488	0.000 CAL
BUNKC:12-40	89926056	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

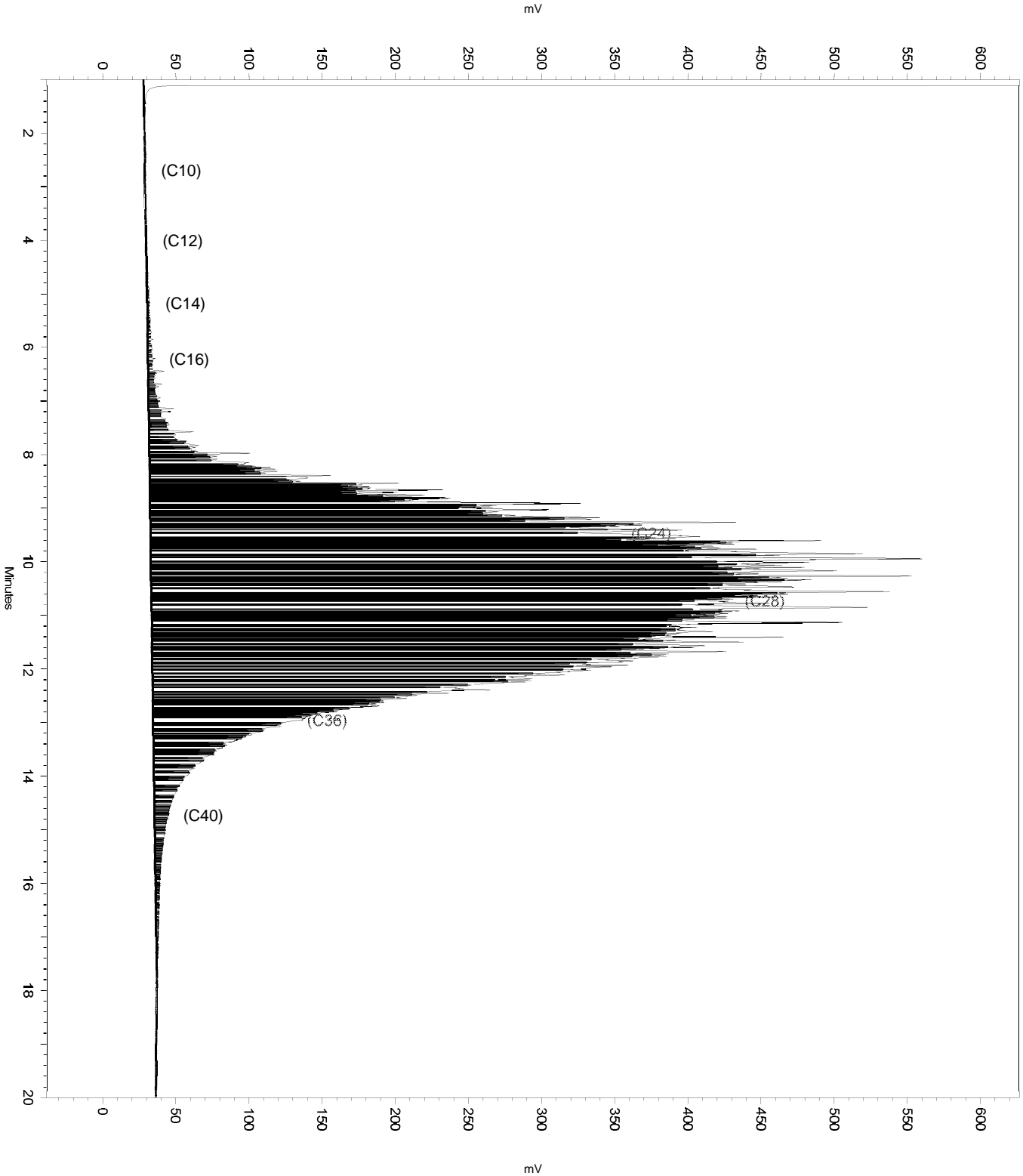
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	16.037	17.779	0

Sample Name: ical,s39614,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b019
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 10:37:16 PM
Analysis Date: 2/4/2019 11:10:29 AM
Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39614,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 10:37:16 PM
 Analysis Date: 2/4/2019 10:48:16 AM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	120061	0.000 CAL
DSL:10-14	34278	0.000 CAL
DSL:10-22	6727266	0.000 CAL
DSL:10-24	18421820	0.000 CAL
DSL:10-28	49366308	0.000 CAL
DSL:12-24	18413906	0.000 CAL
DSL:12-28	49358396	0.000 CAL
DSL:14-24	18392348	0.000 CAL
DSL:16-24	18323722	0.000 CAL
MO:22-32	67988392	2500.000 CAL
MO:24-36	70681184	2500.000 CAL
MO:28-40	42452868	2500.000 CAL
BUNKC:10-40	89168048	0.000 CAL
BUNKC:12-40	89160144	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

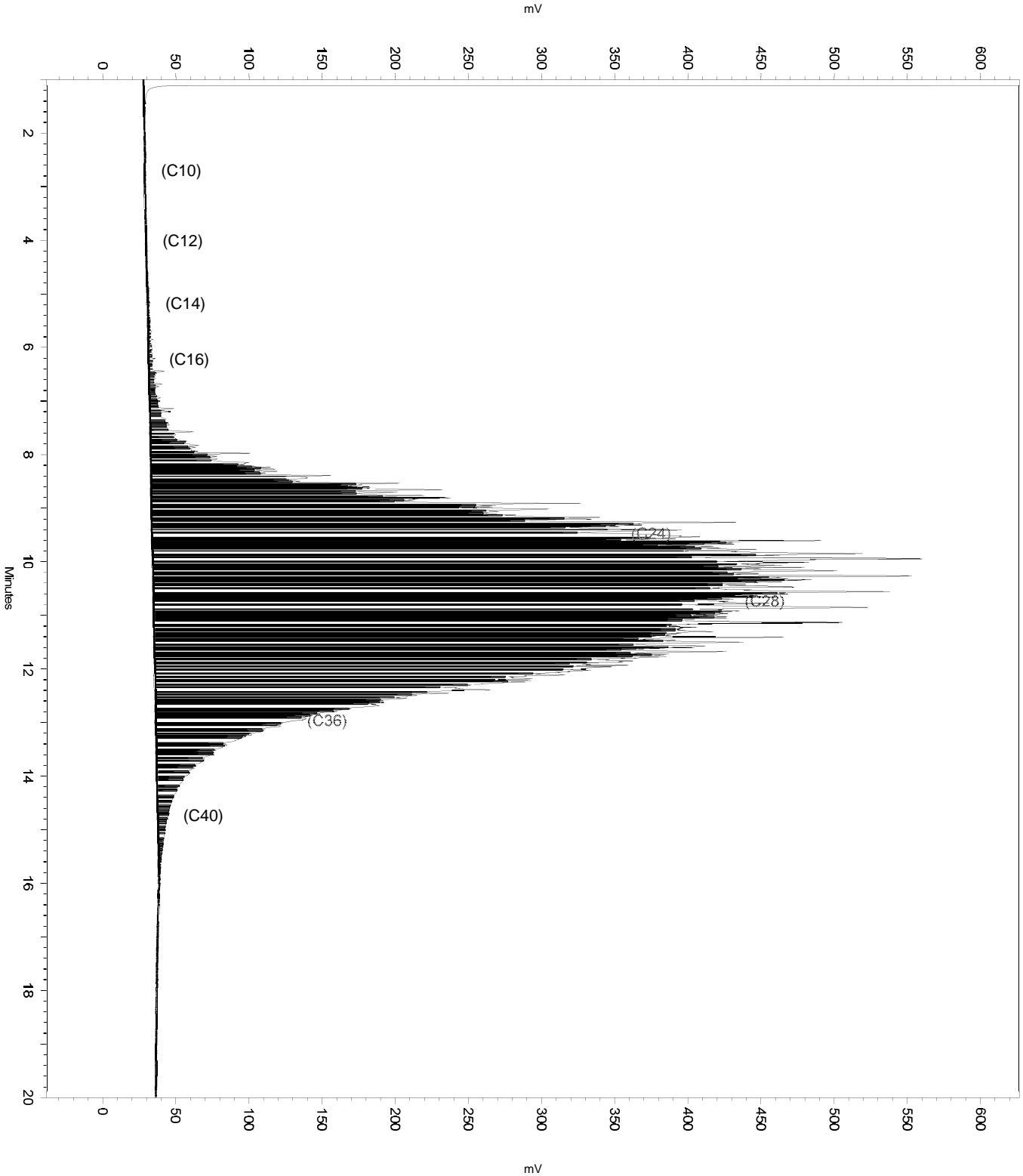
=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0      0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b019
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
None
  
```

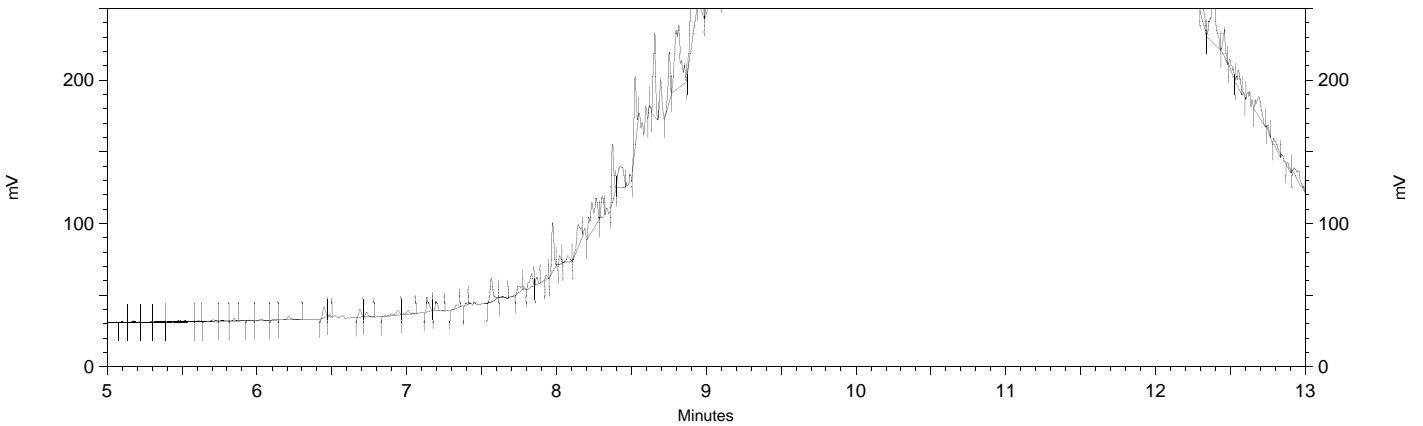
Sample Name: ical,s39614,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b019
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 10:37:16 PM
Analysis Date: 2/4/2019 10:48:16 AM
Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39614,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/1/2019 10:37:16 PM
 Analysis Date: 2/1/2019 10:57:25 PM
 Instrument: GC14B Vial: 19 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.395	1495	0.029
Hexacosane	10.170	116468	2.767



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

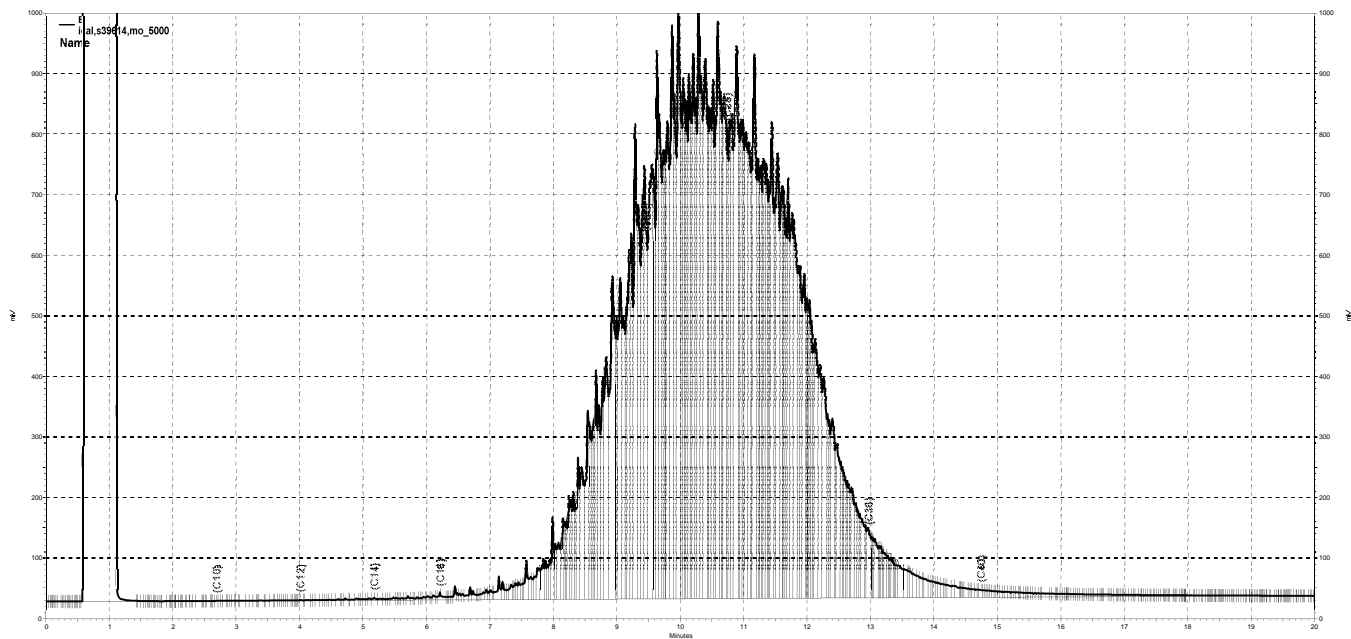
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\032b019_B6D6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b020, B

Sample Name: ical,s39614,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 11:04:42 PM
 Analysis Date: 2/4/2019 11:10:35 AM
 Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	362891	0.000 CAL
DSL:10-14	123461	0.000 CAL
DSL:10-22	13869122	0.000 CAL
DSL:10-24	33286220	0.000 CAL
DSL:10-28	95772808	0.000 CAL
DSL:12-24	33258880	0.000 CAL
DSL:12-28	95745464	0.000 CAL
DSL:14-24	33177120	0.000 CAL
DSL:16-24	32981104	0.000 CAL
MO:22-32	132338216	5000.000 CAL
MO:24-36	131401808	5000.000 CAL
MO:28-40	75086976	5000.000 CAL
BUNKC:10-40	164500368	0.000 CAL
BUNKC:12-40	164473040	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

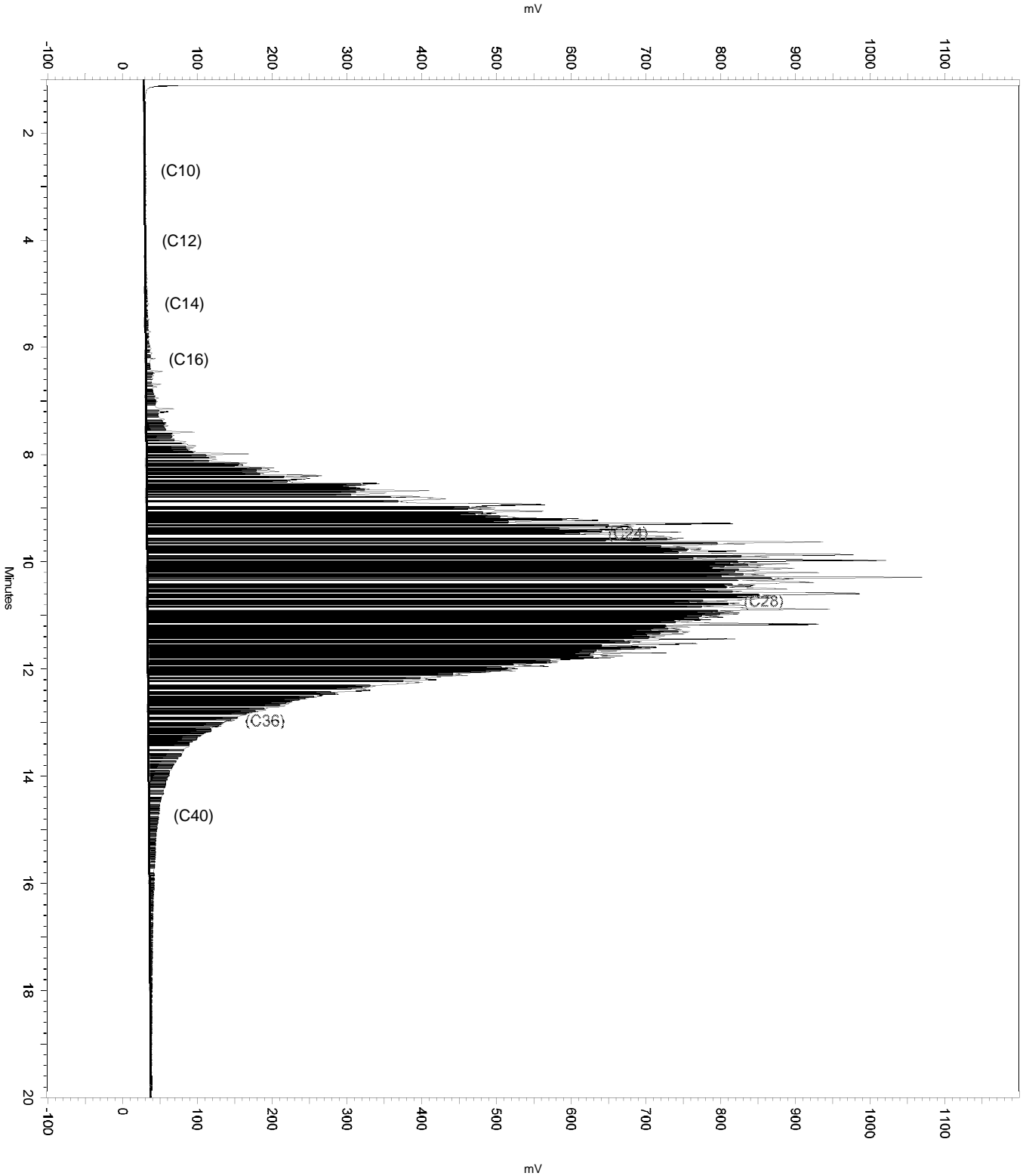
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

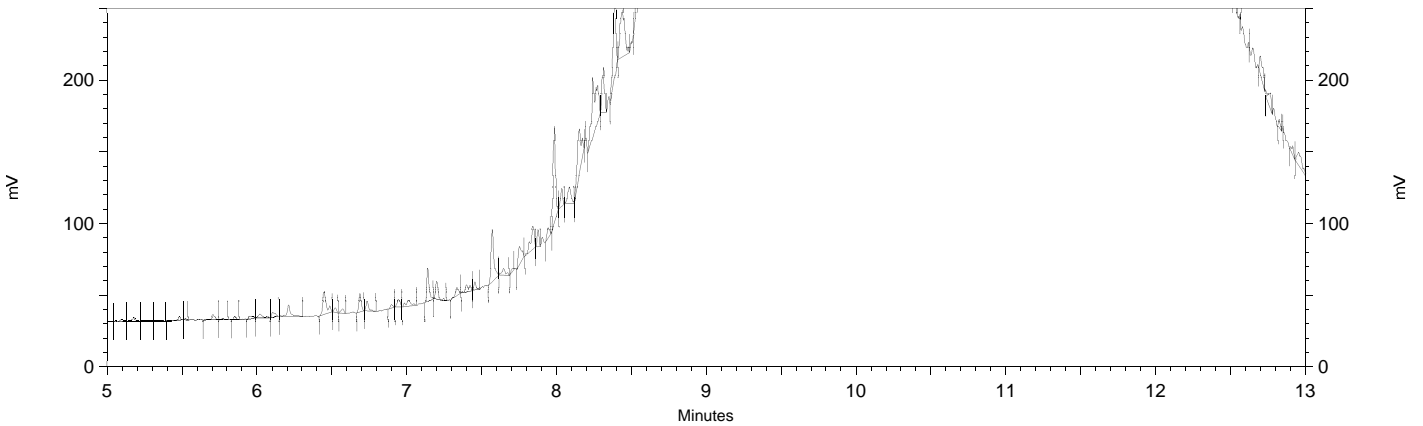
Sample Name: ical,s39614,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b020
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 11:04:42 PM
Analysis Date: 2/4/2019 11:10:35 AM
Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39614,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/1/2019 11:04:42 PM
 Analysis Date: 2/1/2019 11:24:51 PM
 Instrument: GC14B Vial: 20 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.398	10088	0.193
Hexacosane	10.135	187375	4.452



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

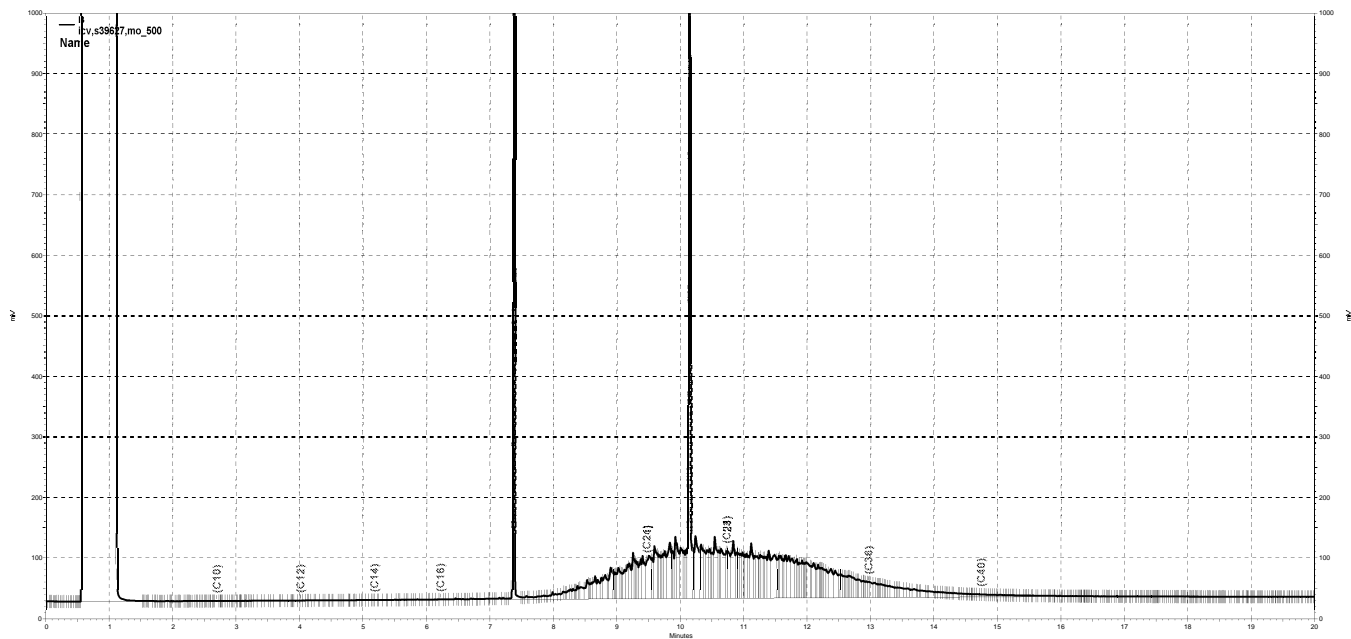
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\032b020_B6D7.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\drive\ezchrom\Projects\GC14B\Data\2019\032b022, B

Sample Name: icv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b022
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/1/2019 11:59:15 PM
 Analysis Date: 2/4/2019 11:14:27 AM
 Instrument: GC14B Vial: 22 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	37867	0.844
DSL:10-14	14243	0.954
DSL:10-22	3469365	84.919
DSL:10-24	5649887	134.266
DSL:10-28	13260560	309.981
DSL:12-24	5643834	153.338
DSL:12-28	13254507	353.403
DSL:14-24	5637615	196.616
DSL:16-24	5617295	280.718
MO:22-32	14601522	545.626
MO:24-36	15406825	542.280
MO:28-40	8734305	467.863
BUNKC:10-40	21639514	1054.575
BUNKC:12-40	21633462	1085.455

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

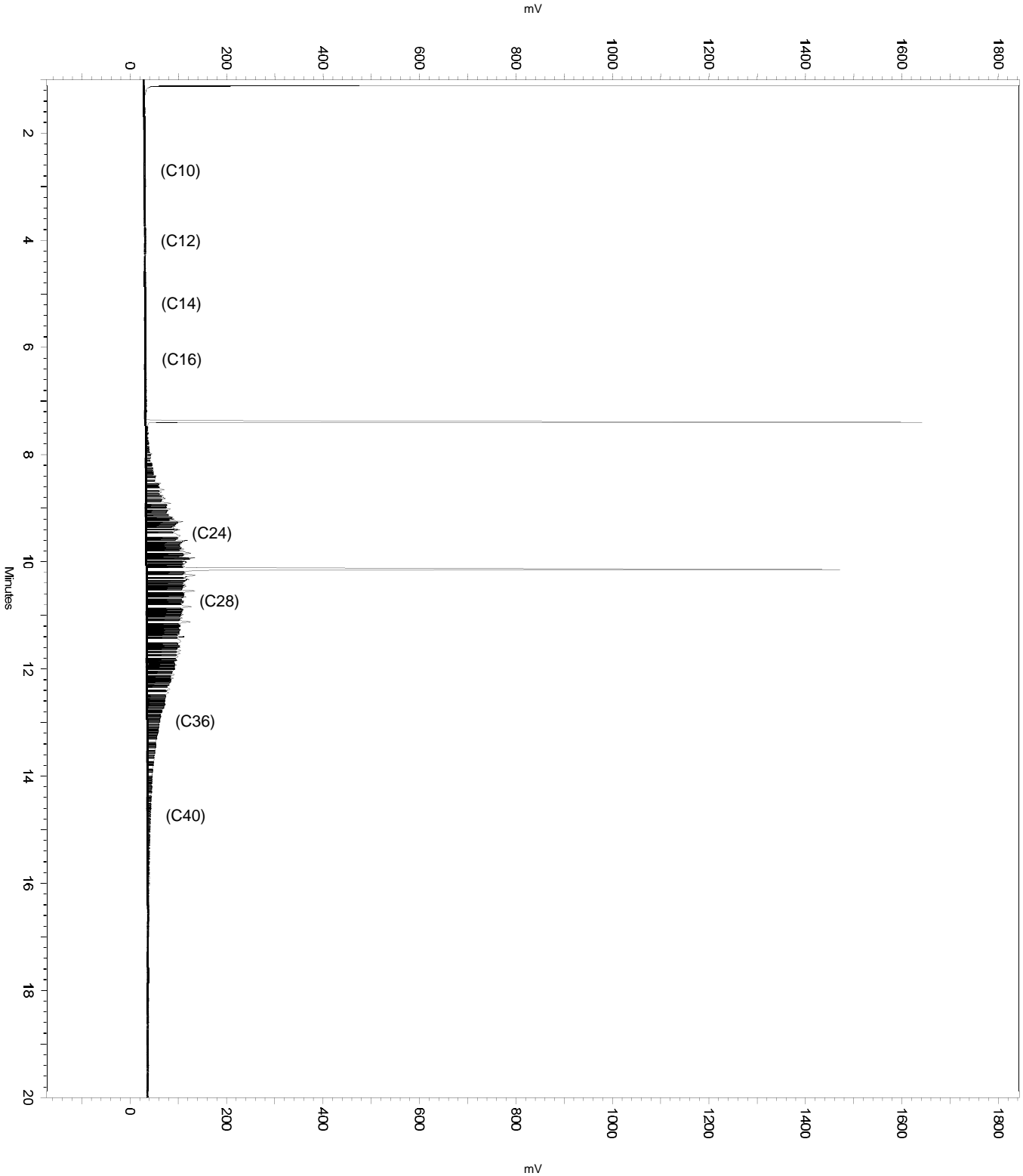
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.323	7.527	0
No	Split Peak	7.426	0	0
No	Manual Peak	10.076	10.406	0
No	Split Peak	10.106	0	0
No	Split Peak	10.197	0	0

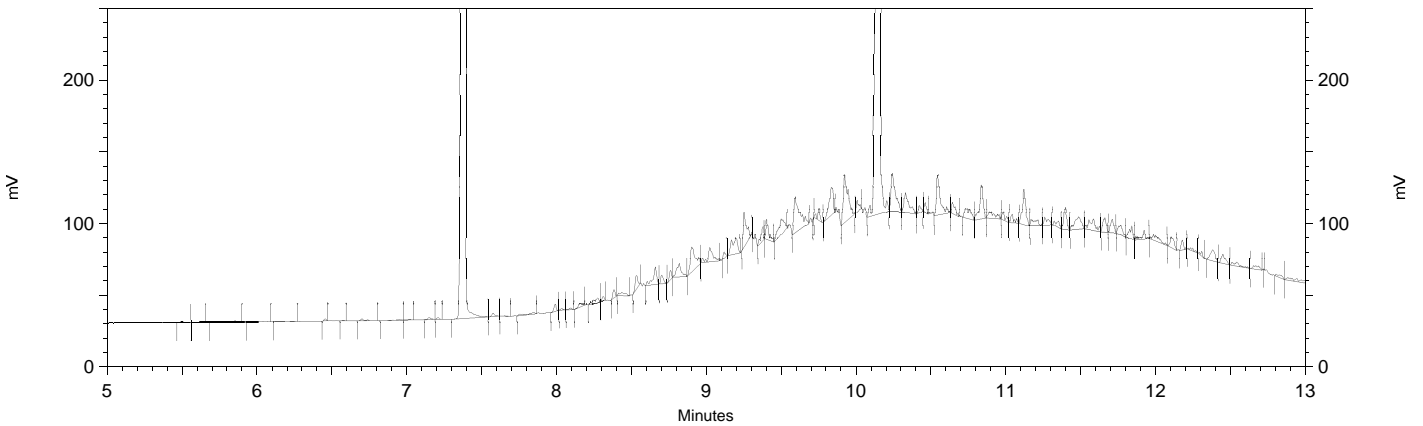
Sample Name: icv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b022
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/1/2019 11:59:15 PM
Analysis Date: 2/4/2019 11:14:27 AM
Instrument: GC14B Vial: 22 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: icv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b022
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/1/2019 11:59:15 PM
 Analysis Date: 2/2/2019 12:19:24 AM
 Instrument: GC14B Vial: 22 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.387	2205298	42.215
Hexacosane	10.152	1892391	44.966



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

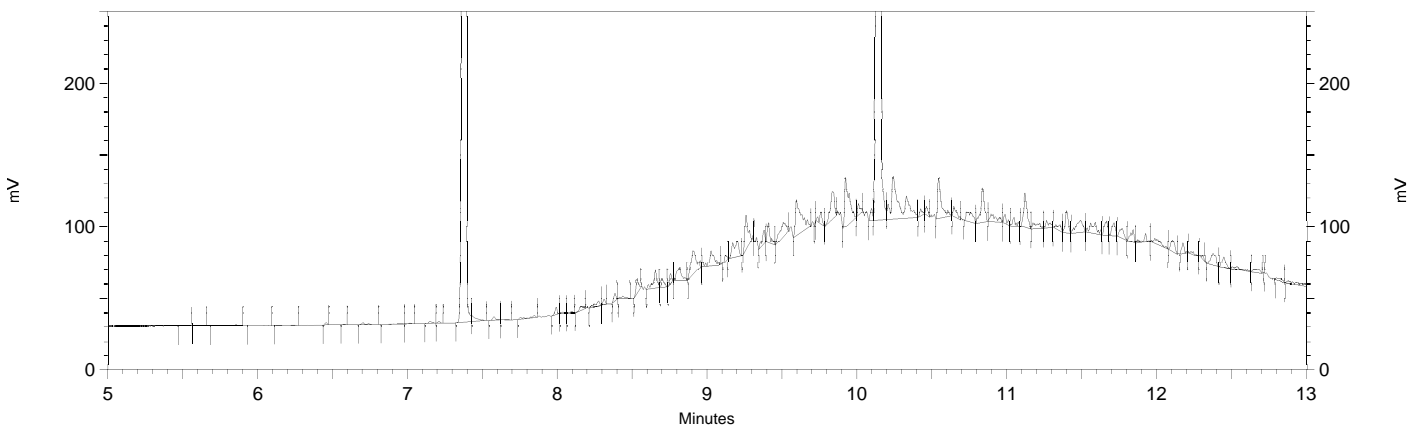
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\032b022_B6D9.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: icv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b022
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 11:59:15 PM
 Analysis Date: 2/4/2019 11:13:53 AM
 Instrument: GC14B Vial: 22 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.387	2194807	50.328
Hexacosane	10.152	1887154	56.463



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

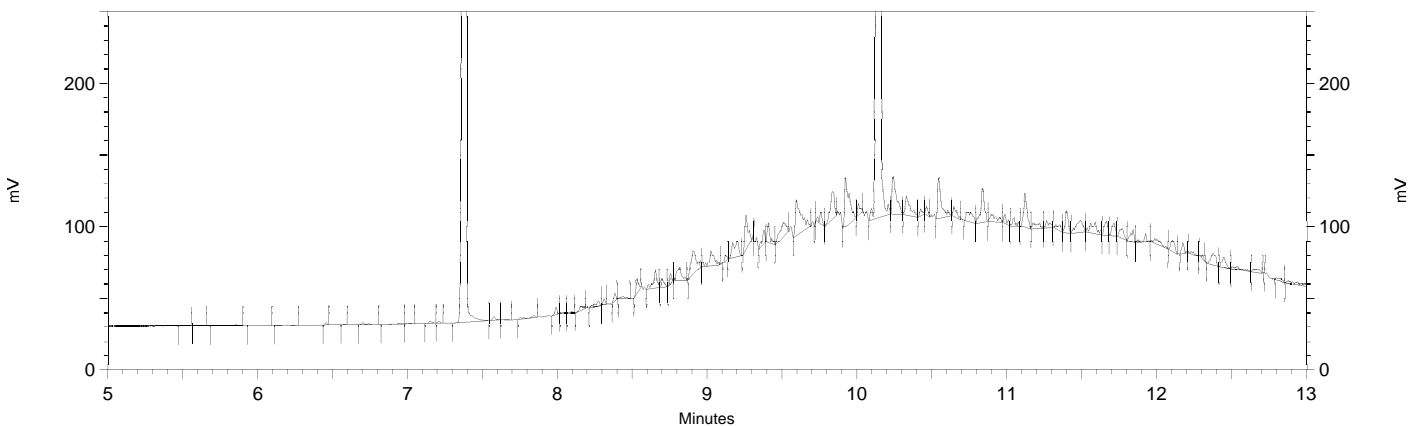
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.323	7.527	0
Yes	Split Peak	7.426	0	0
Yes	Manual Peak	10.076	10.406	0
Yes	Split Peak	10.106	0	0
Yes	Split Peak	10.197	0	0

Sample Name: icv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b022
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/1/2019 11:59:15 PM
 Analysis Date: 2/4/2019 11:13:44 AM
 Instrument: GC14B Vial: 22 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.387	2205298	50.569
Hexacosane	10.152	1892391	56.619



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.323	7.527	0
No	Split Peak	7.426	0	0
No	Manual Peak	10.076	10.406	0
No	Split Peak	10.106	0	0
No	Split Peak	10.197	0	0

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 979016508005
 Units : mg/L

Name : HEX OTP_011
 Date : 11-JAN-2019 19:18
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	011a007	979016508007	HEX OTP_2.5	11-JAN-2019 19:18	S38295 (2X)
L2	011a008	979016508008	HEX OTP_5	11-JAN-2019 19:43	S38295
L3	011a009	979016508009	HEX OTP_10	11-JAN-2019 20:07	S38296
L4	011a010	979016508010	HEX OTP_25	11-JAN-2019 20:31	S38297
L5	011a011	979016508011	HEX OTP_50	11-JAN-2019 20:56	S38299 (2X)
L6	011a012	979016508012	HEX OTP_100	11-JAN-2019 21:20	S38299

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	439319	435897	426688	423207	447972	403300	AVRG		2.33E-6		429397	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	2.5000	2	5.0000	2	10.000	-1	25.000	-1	50.000	4	100.00	-6

TKY 01/14/19 : Corrected automatically drawn baseline in all levels.

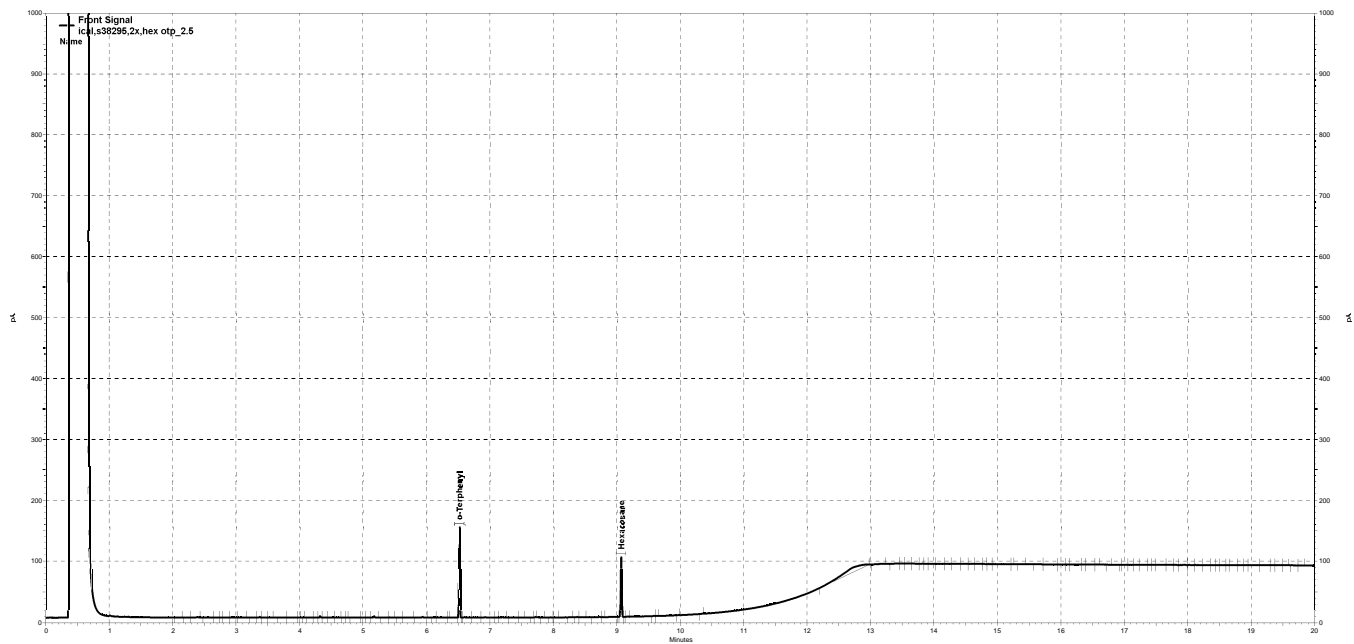
Analyst: TKY

Date: 01/14/19

Reviewer: EAH

Date: 01/14/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



— G:\ezchrom\Projects\GC27\Data\2019\011a007.dat, Front Signal

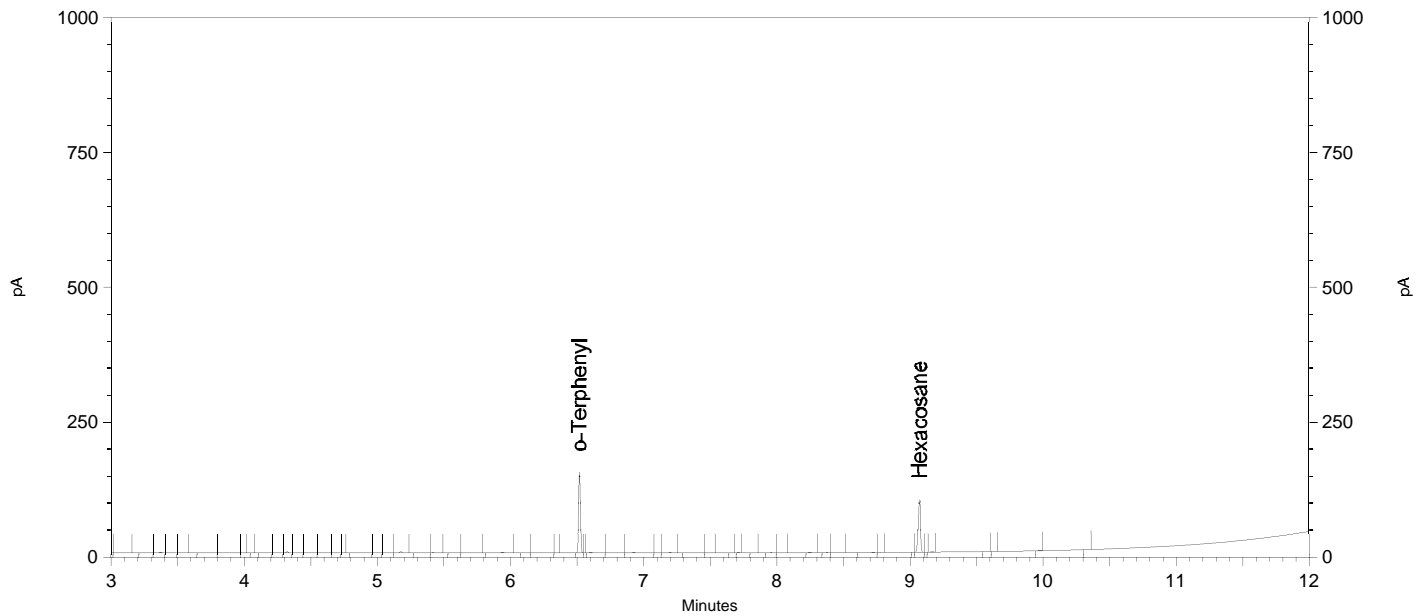
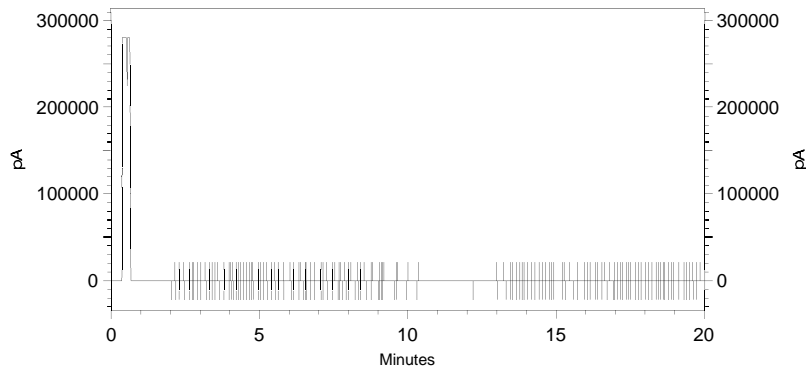
Sample Name: ical,s38295,2x,hex otp_2.5
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\007.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 7:18:57 PM
 Analysis Date: 1/14/2019 4:23:22 PM
 Instrument: GC27 (Offline)A Vial: 57 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	1098297	2.500 CAL
Hexacosane	9.072	856874	2.500 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a007.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.492	6.566	0
Yes	Split Peak	6.552	0	0
Yes	Manual Peak	9.013	9.138	0
Yes	Split Peak	9.035	0	0
Yes	Split Peak	9.109	0	0

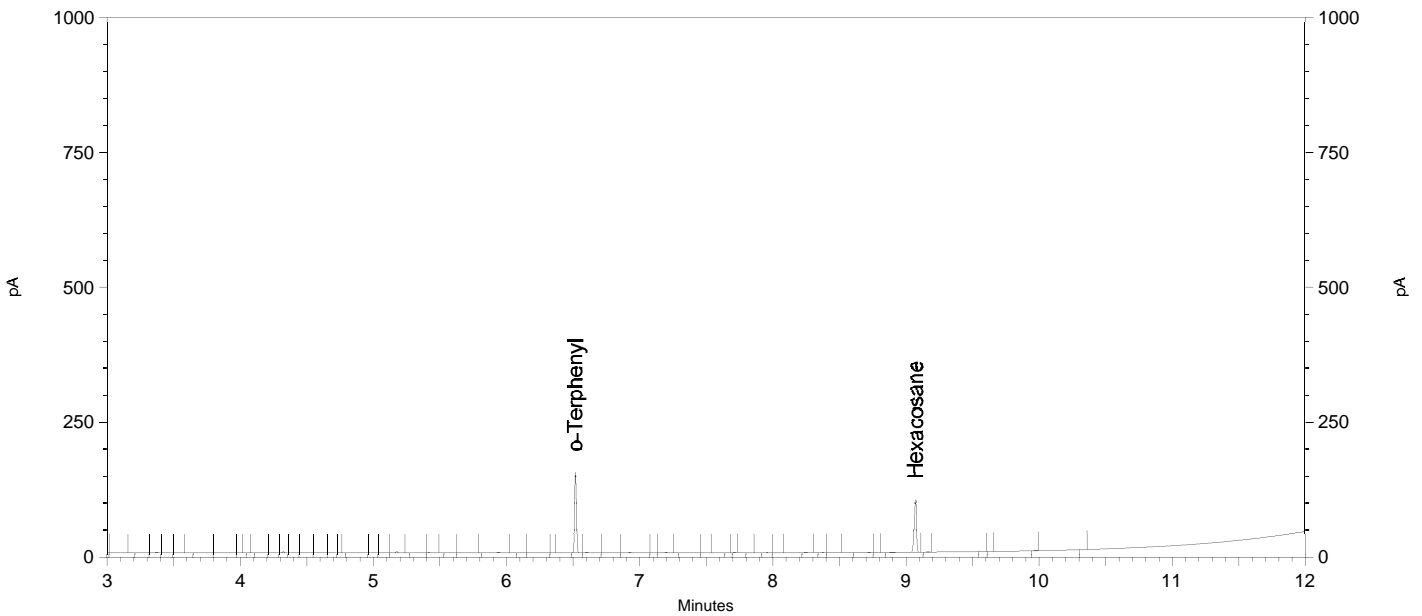
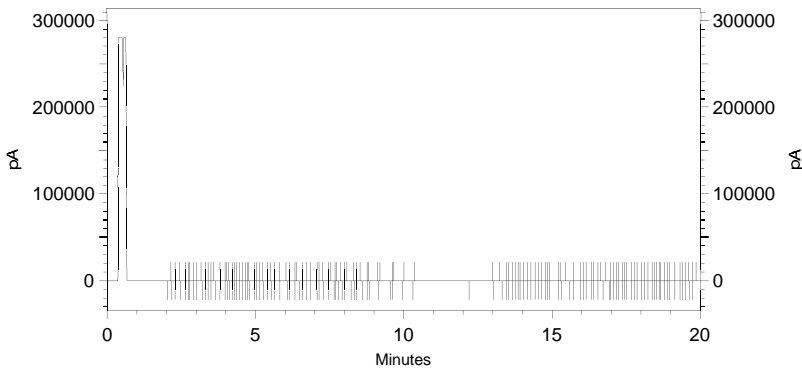
Sample Name: ical,s38295,2x,hex otp_2.5
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\007.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 7:18:57 PM
 Analysis Date: 1/14/2019 4:20:27 PM
 Instrument: GC27 (Offline)A Vial: 57 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	1098632	2.500 CAL
Hexacosane	9.072	860349	2.500 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events
 =====

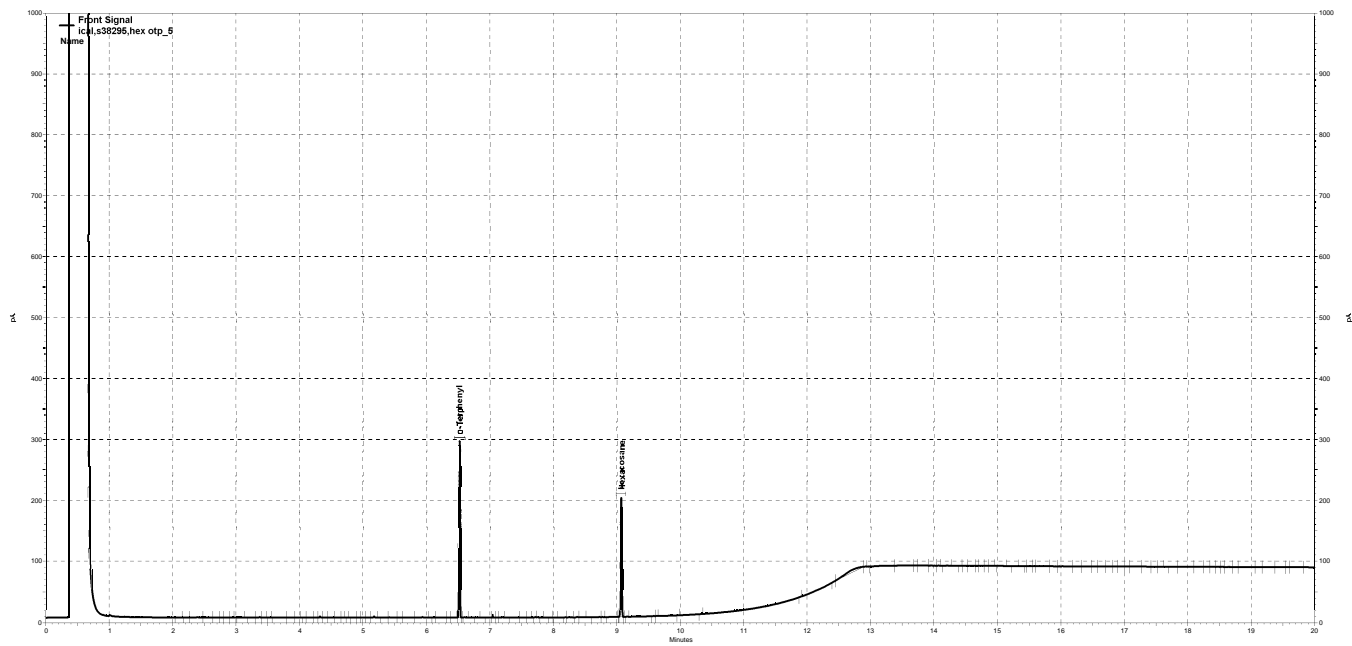
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a007.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.492	6.566	0
No	Split Peak	6.552	0	0
No	Manual Peak	9.013	9.138	0
No	Split Peak	9.035	0	0
No	Split Peak	9.109	0	0



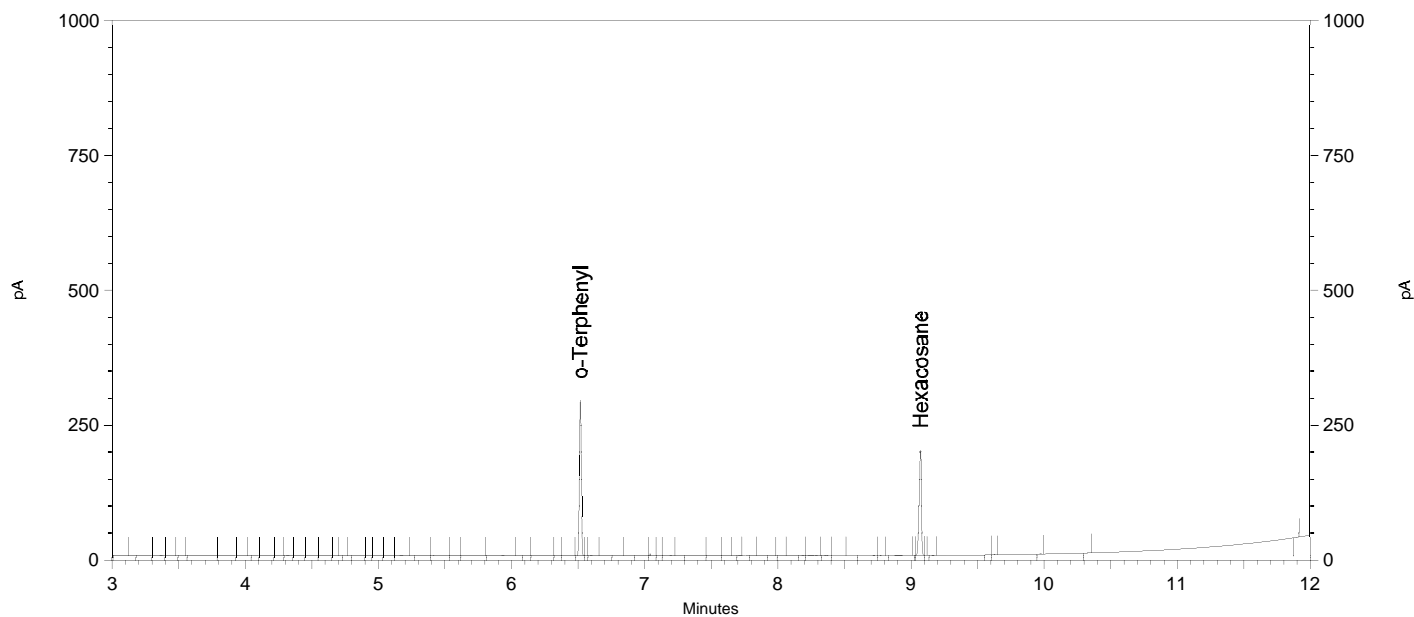
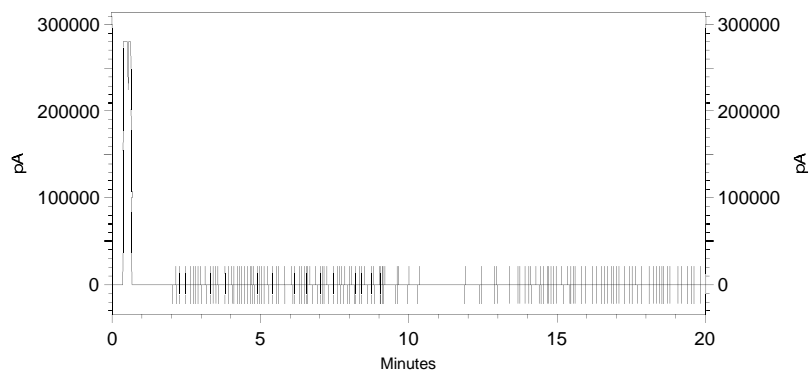
— G:\ezchrom\Projects\GC27\Data\2019\011a008.dat, Front Signal

Sample Name: ical,s38295,hex otp_5
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a008.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 7:43:19 PM
 Analysis Date: 1/14/2019 4:23:25 PM
 Instrument: GC27 (Offline)A Vial: 58 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	2179483	5.000 CAL
Hexacosane	9.072	1735280	5.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a008.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.485	6.575	0
Yes	Split Peak	6.551	0	0
Yes	Manual Peak	9.027	9.123	0
Yes	Split Peak	9.035	0	0
Yes	Split Peak	9.103	0	0

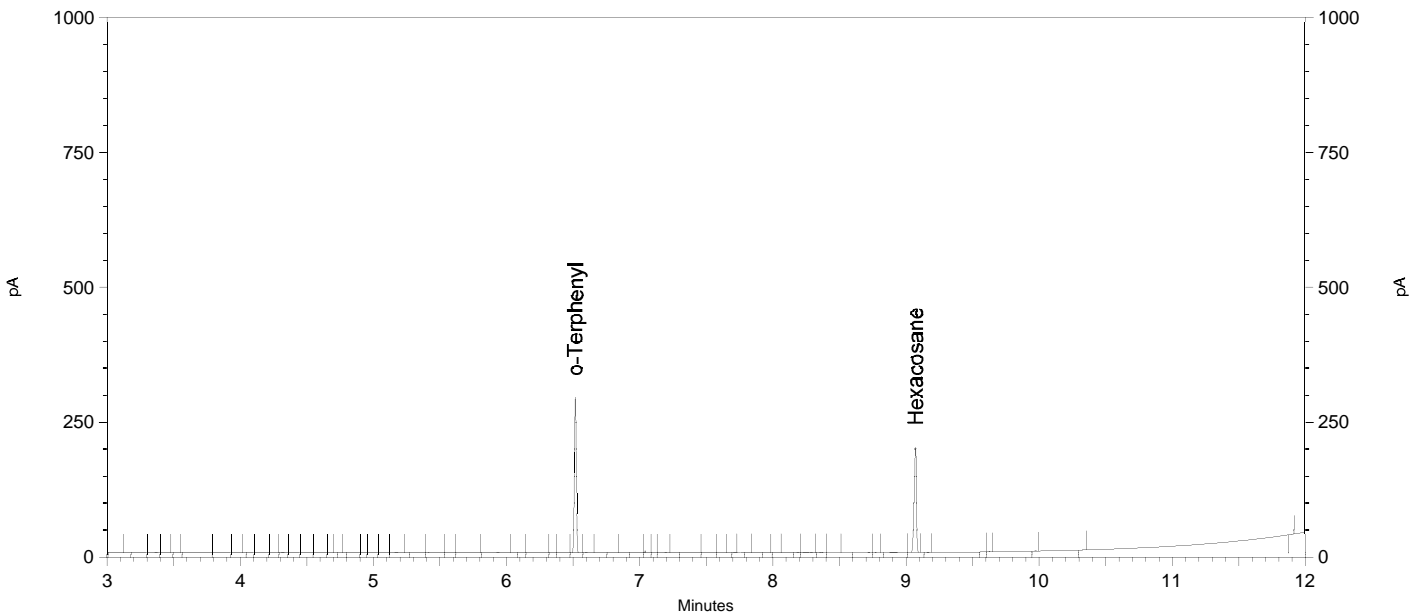
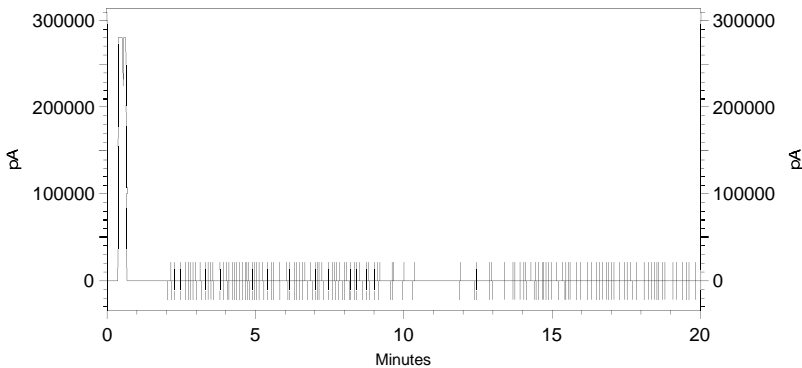
Sample Name: ical,s38295,hex otp_5
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a008.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 7:43:19 PM
 Analysis Date: 1/14/2019 4:20:48 PM
 Instrument: GC27 (Offline)A Vial: 58 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.522	2179801	5.000 CAL
Hexacosane	9.072	1736110	5.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

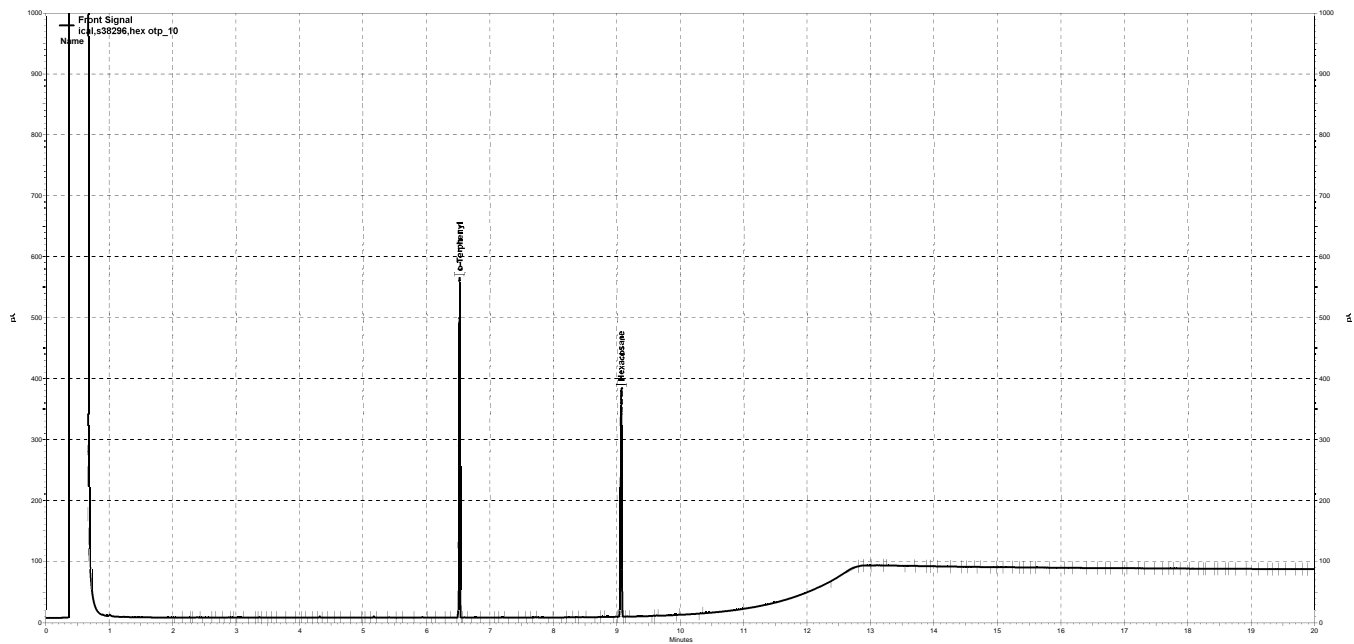
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a008.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.485	6.575	0
No	Split Peak	6.551	0	0
No	Manual Peak	9.027	9.123	0
No	Split Peak	9.035	0	0
No	Split Peak	9.103	0	0



— G:\ezchrom\Projects\GC27\Data\2019\011a009.dat, Front Signal

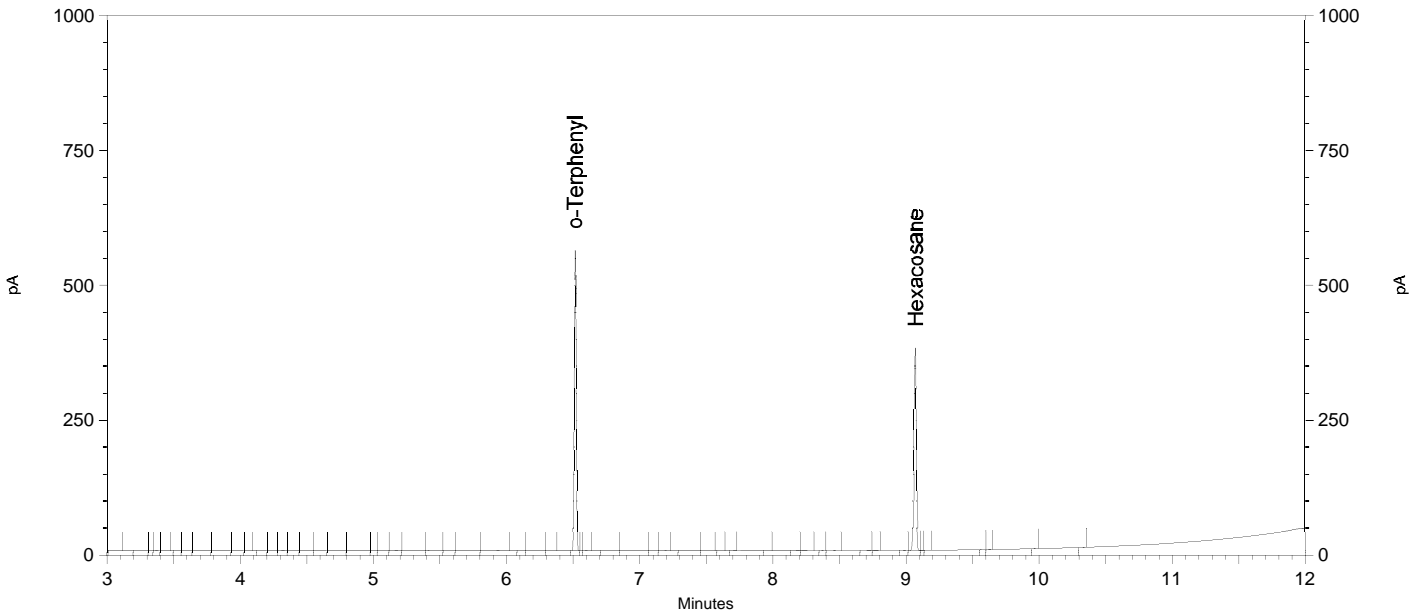
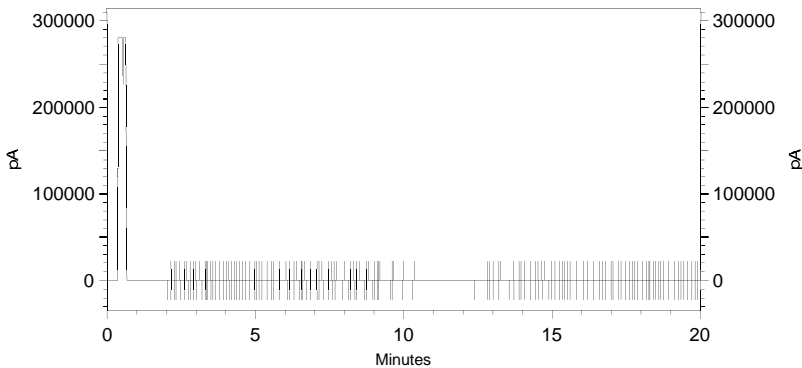
Sample Name: ical,s38296,hex otp_10
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a009.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 8:07:39 PM
 Analysis Date: 1/14/2019 4:23:28 PM
 Instrument: GC27 (Offline)A Vial: 59 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.520	4266878	10.000 CAL
Hexacosane	9.070	3436730	10.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a009.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.482	6.569	0
Yes	Split Peak	6.554	0	0
Yes	Manual Peak	8.953	9.137	0
Yes	Split Peak	9.019	0	0
Yes	Split Peak	9.109	0	0

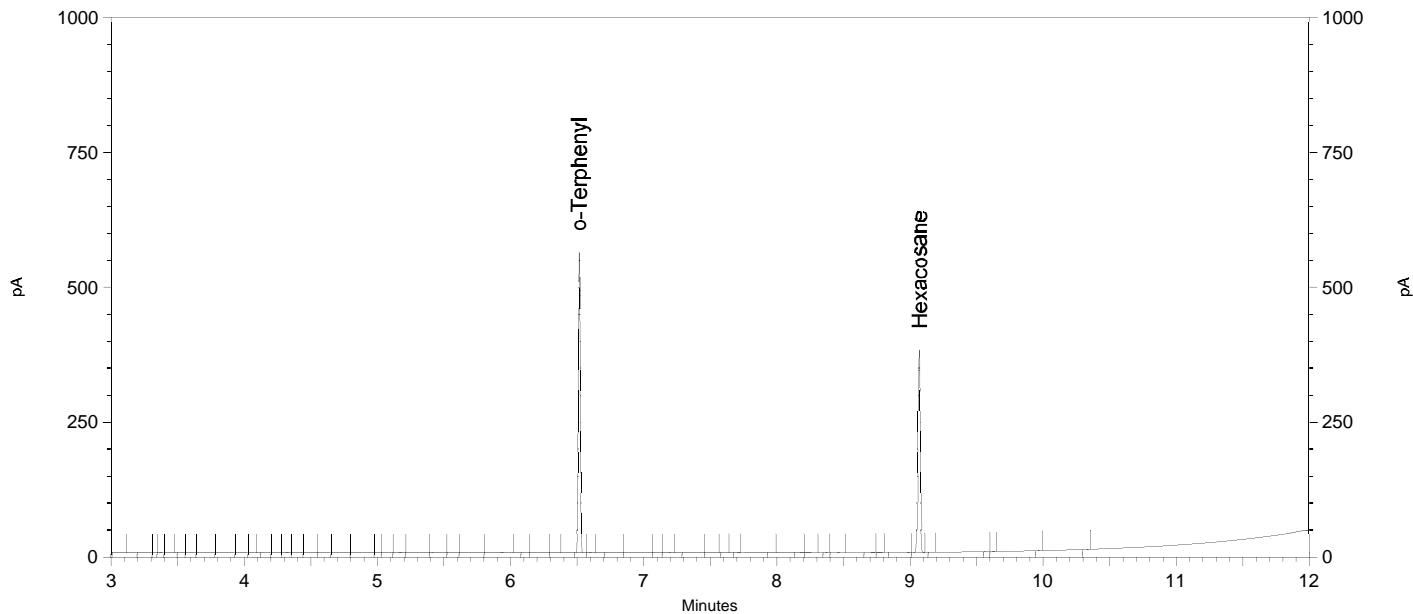
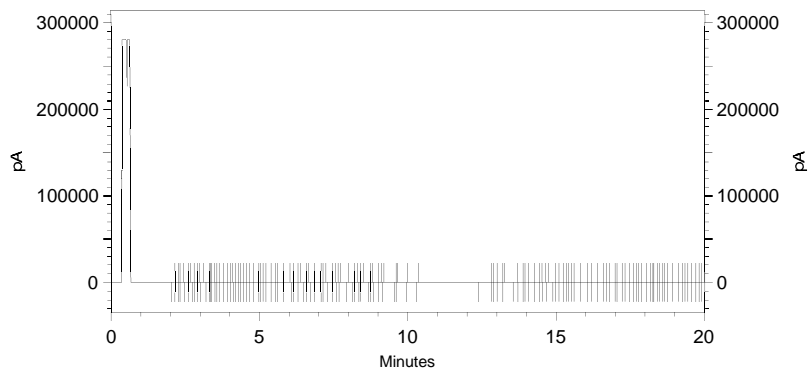
Sample Name: ical,s38296,hex otp_10
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a009.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 8:07:39 PM
 Analysis Date: 1/14/2019 4:21:04 PM
 Instrument: GC27 (Offline)A Vial: 59 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.520	4267153	10.000 CAL
Hexacosane	9.070	3435990	10.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

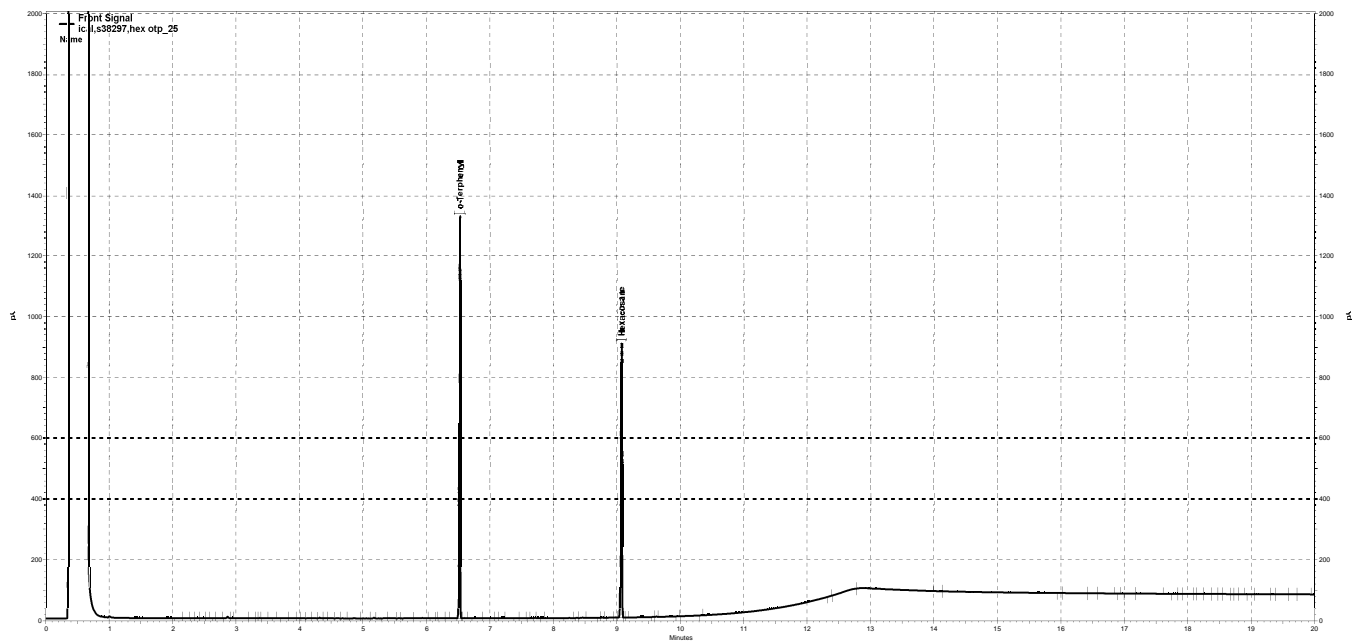
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a009.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.482	6.569	0
No	Split Peak	6.554	0	0
No	Manual Peak	8.953	9.137	0
No	Split Peak	9.019	0	0
No	Split Peak	9.109	0	0



— G:\ezchrom\Projects\GC27\Data\2019\011a\010.dat, Front Signal

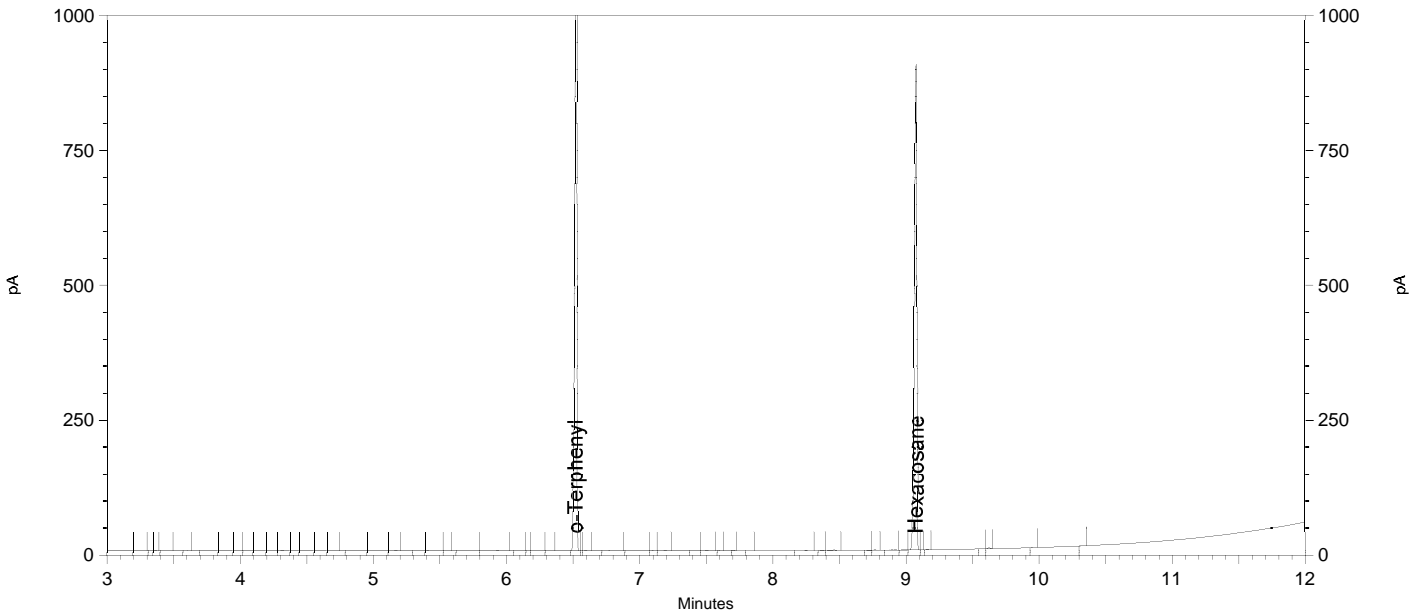
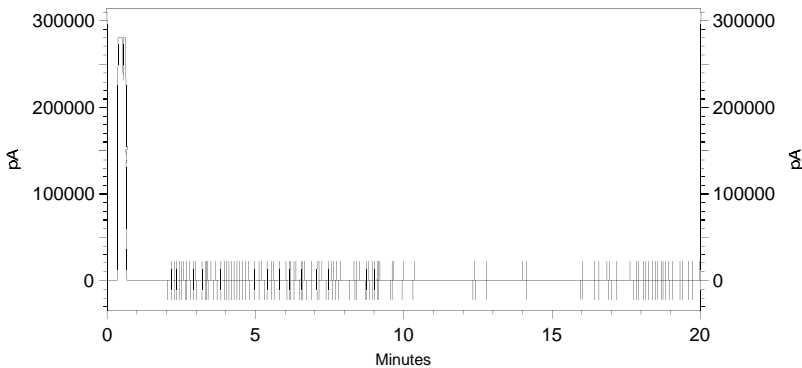
Sample Name: ical,s38297,hex otp_25
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\010.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 8:31:54 PM
 Analysis Date: 1/14/2019 4:23:31 PM
 Instrument: GC27 (Offline)A Vial: 60 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.525	10580181	25.000 CAL
Hexacosane	9.075	8516877	25.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a010.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.483	6.575	0
Yes	Split Peak	6.558	0	0
Yes	Manual Peak	8.952	9.133	0
Yes	Split Peak	9.019	0	0
Yes	Split Peak	9.11	0	0

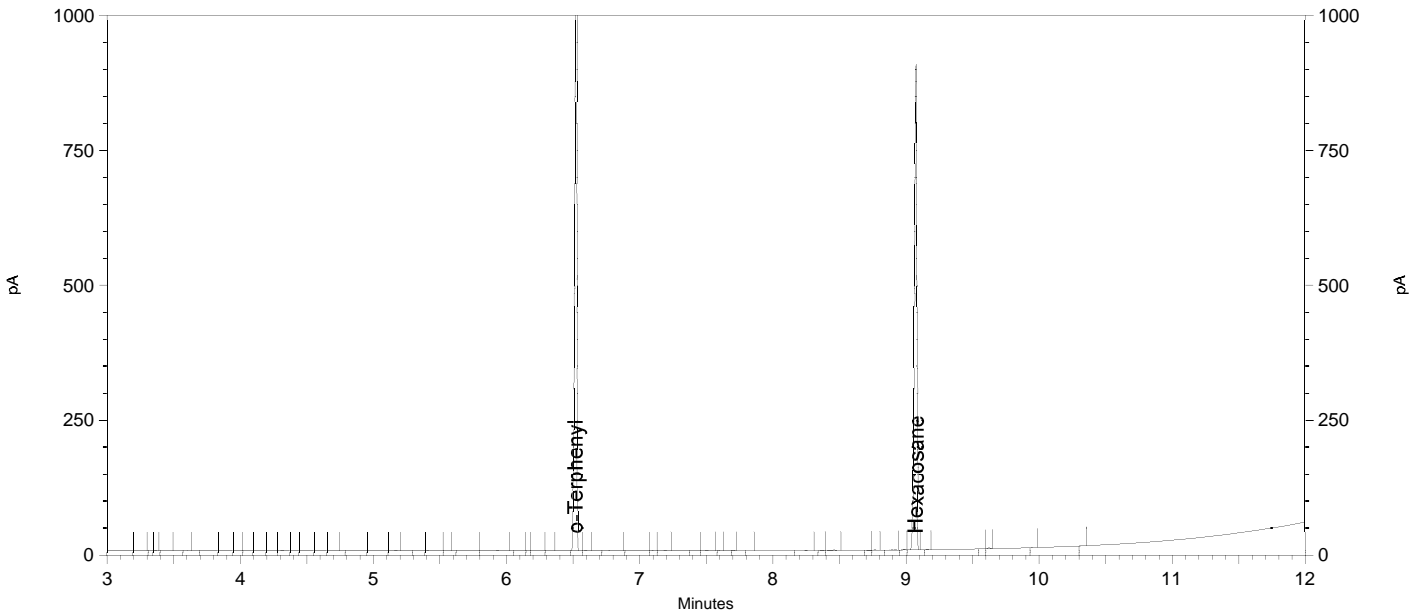
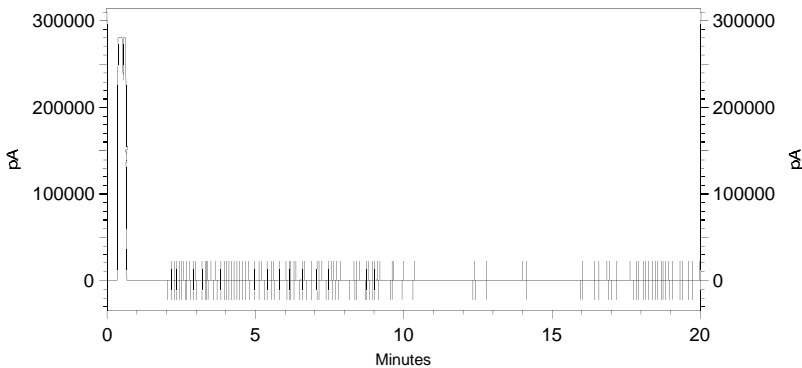
Sample Name: ical,s38297,hex otp_25
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\010.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 8:31:54 PM
 Analysis Date: 1/14/2019 4:21:20 PM
 Instrument: GC27 (Offline)A Vial: 60 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.525	10580383	25.000 CAL
Hexacosane	9.075	8512532	25.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

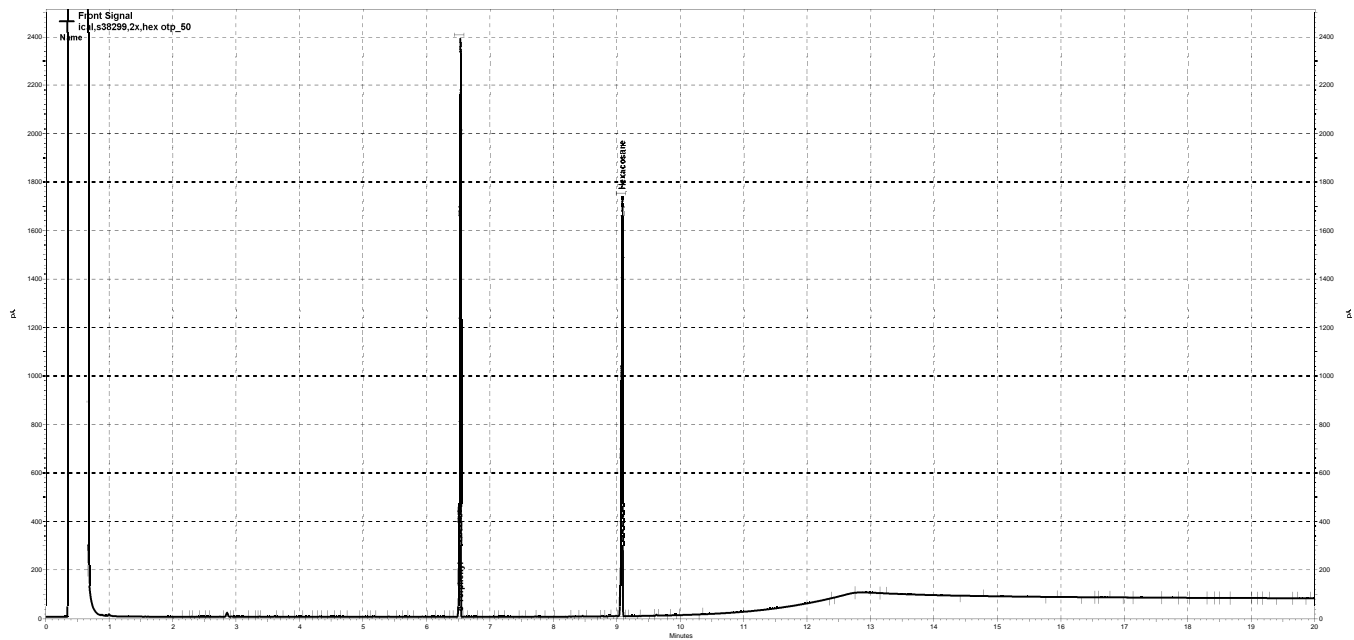
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a010.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.483	6.575	0
No	Split Peak	6.558	0	0
No	Manual Peak	8.952	9.133	0
No	Split Peak	9.019	0	0
No	Split Peak	9.11	0	0



— G:\ezchrom\Projects\GC27\Data\2019\011a011.dat, Front Signal

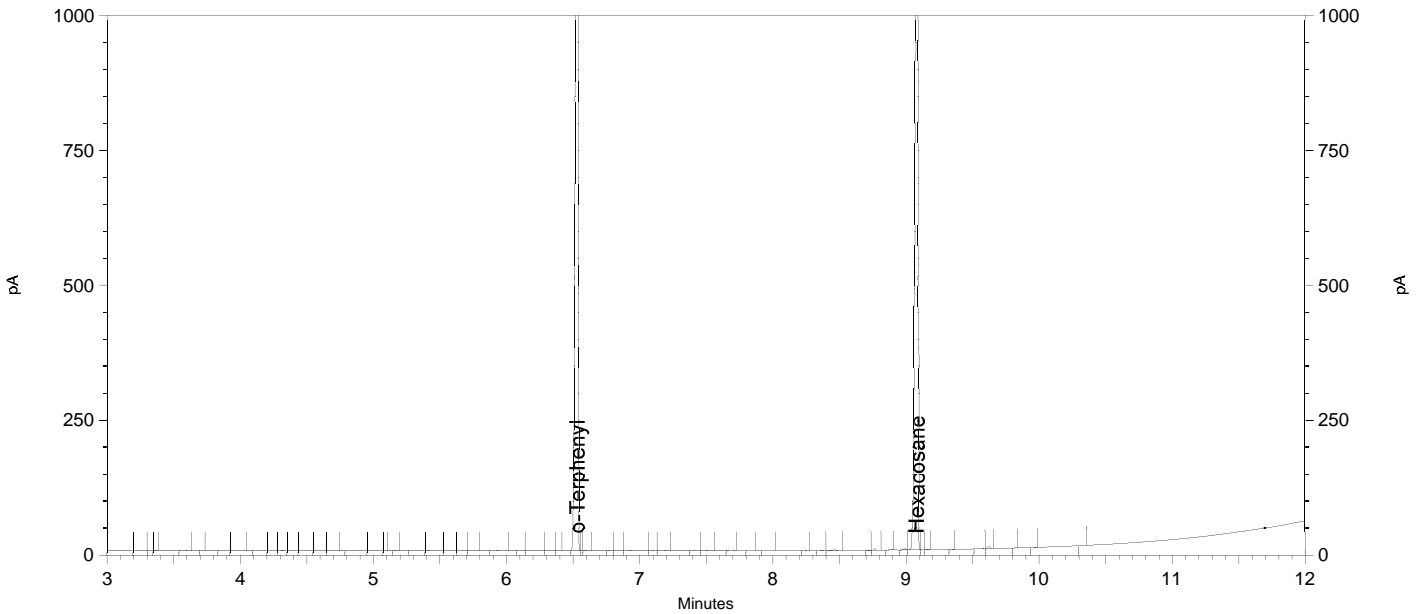
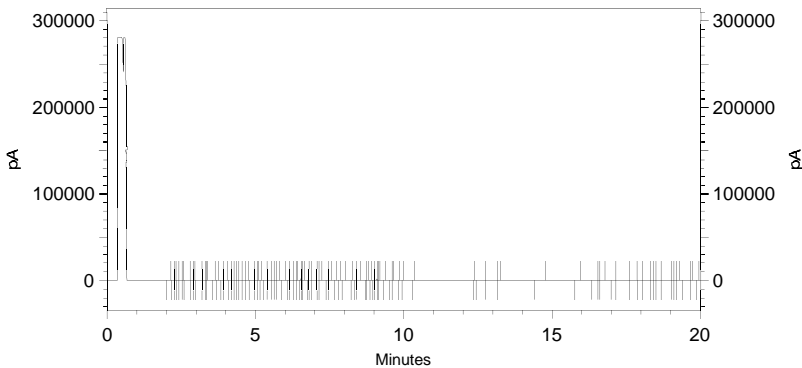
Sample Name: ical,s38299,2x,hex otp_50
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\011.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 8:56:23 PM
 Analysis Date: 1/14/2019 4:23:33 PM
 Instrument: GC27 (Offline)A Vial: 61 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.535	22398591	50.000 CAL
Hexacosane	9.083	18355453	50.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a011.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.483	6.578	0
Yes	Split Peak	6.559	0	0
Yes	Manual Peak	8.956	9.14	0
Yes	Split Peak	9.015	0	0
Yes	Split Peak	9.114	0	0

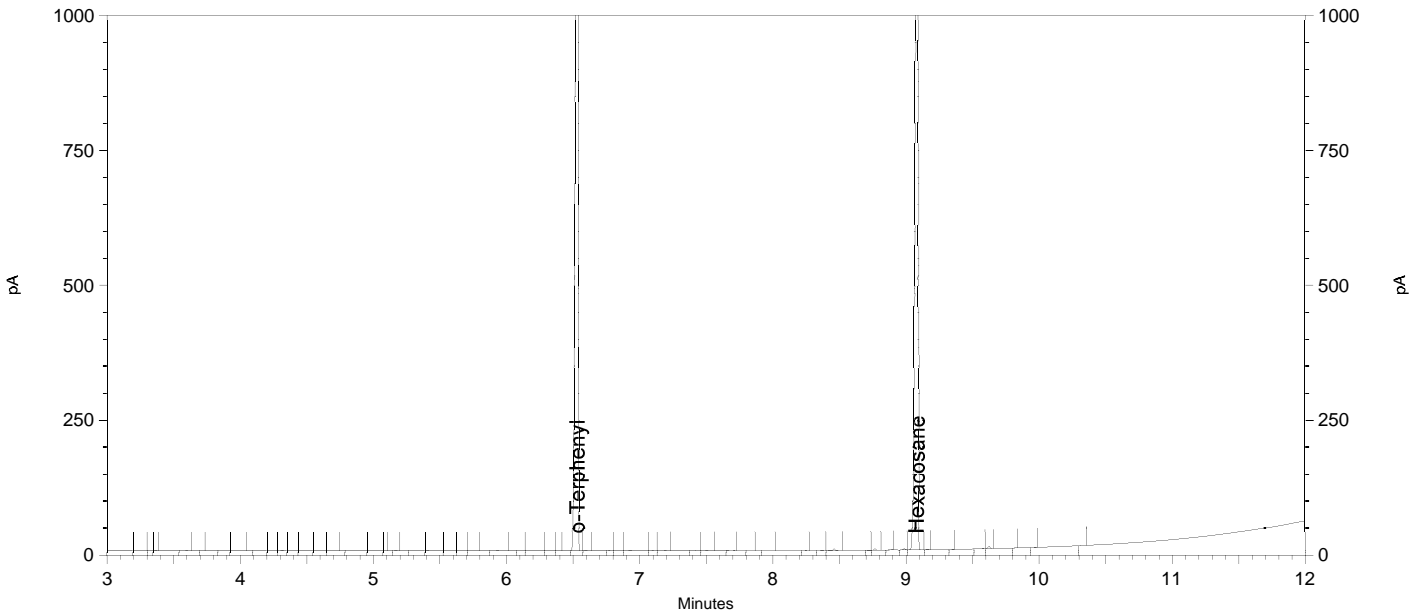
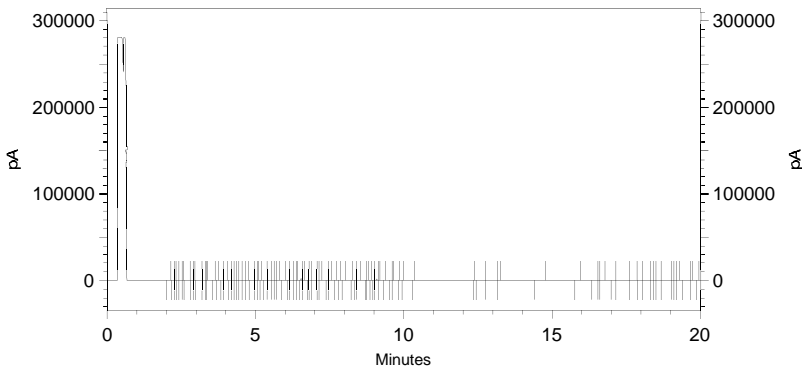
Sample Name: ical,s38299,2x,hex otp_50
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\011.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 8:56:23 PM
 Analysis Date: 1/14/2019 4:21:32 PM
 Instrument: GC27 (Offline)A Vial: 61 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.535	22399012	50.000 CAL
Hexacosane	9.083	18348911	50.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events
 =====

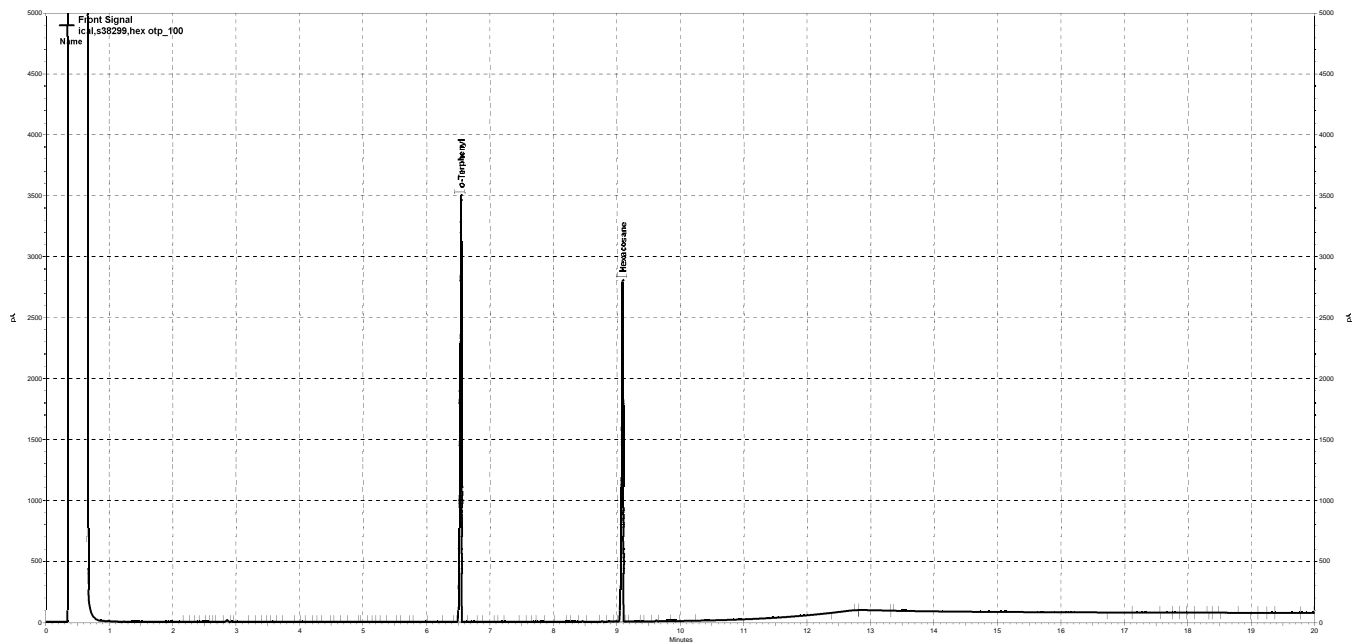
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a011.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.483	6.578	0
No	Split Peak	6.559	0	0
No	Manual Peak	8.956	9.14	0
No	Split Peak	9.015	0	0
No	Split Peak	9.114	0	0



— G:\ezchrom\Projects\GC27\Data\2019\011a\012.dat, Front Signal

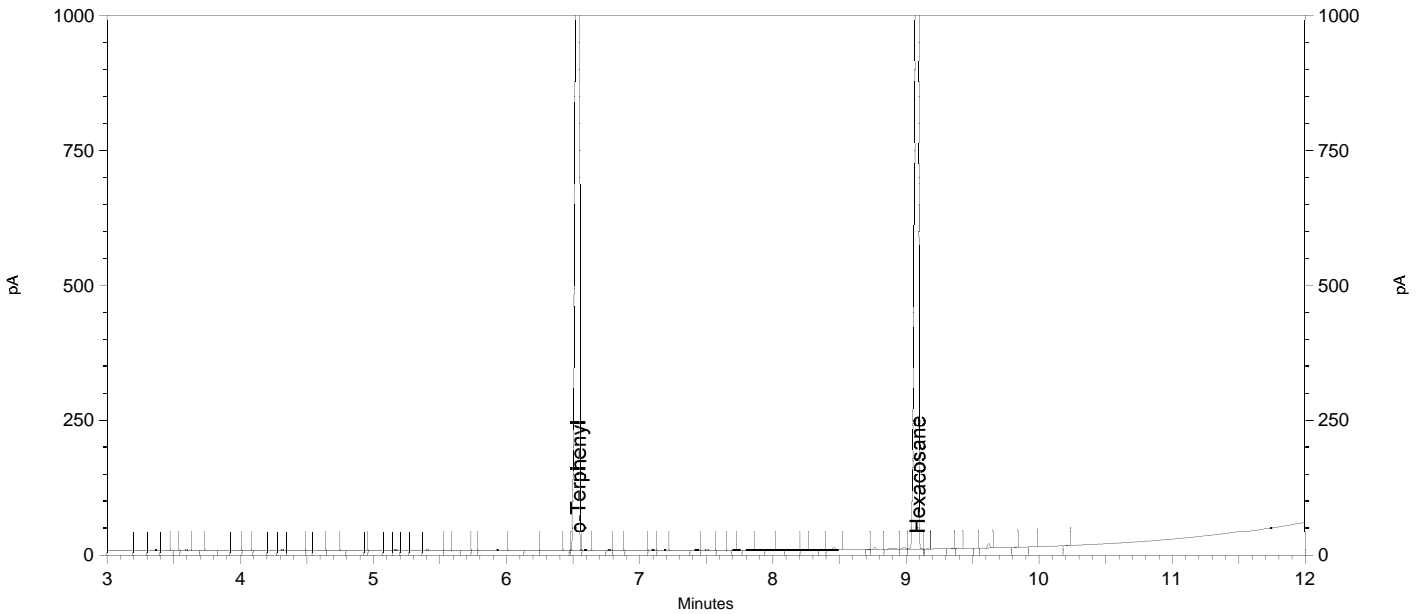
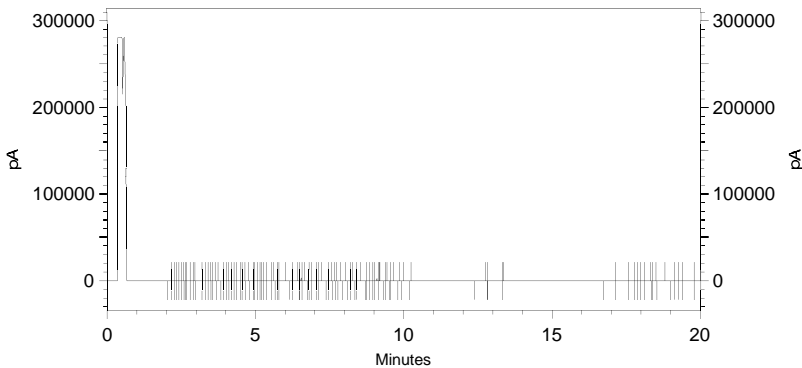
Sample Name: ical,s38299,hex otp_100
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\012.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 9:20:46 PM
 Analysis Date: 1/14/2019 4:23:36 PM
 Instrument: GC27 (Offline)A Vial: 62 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.545	40330005	100.000 CAL
Hexacosane	9.092	33152705	100.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a012.dat

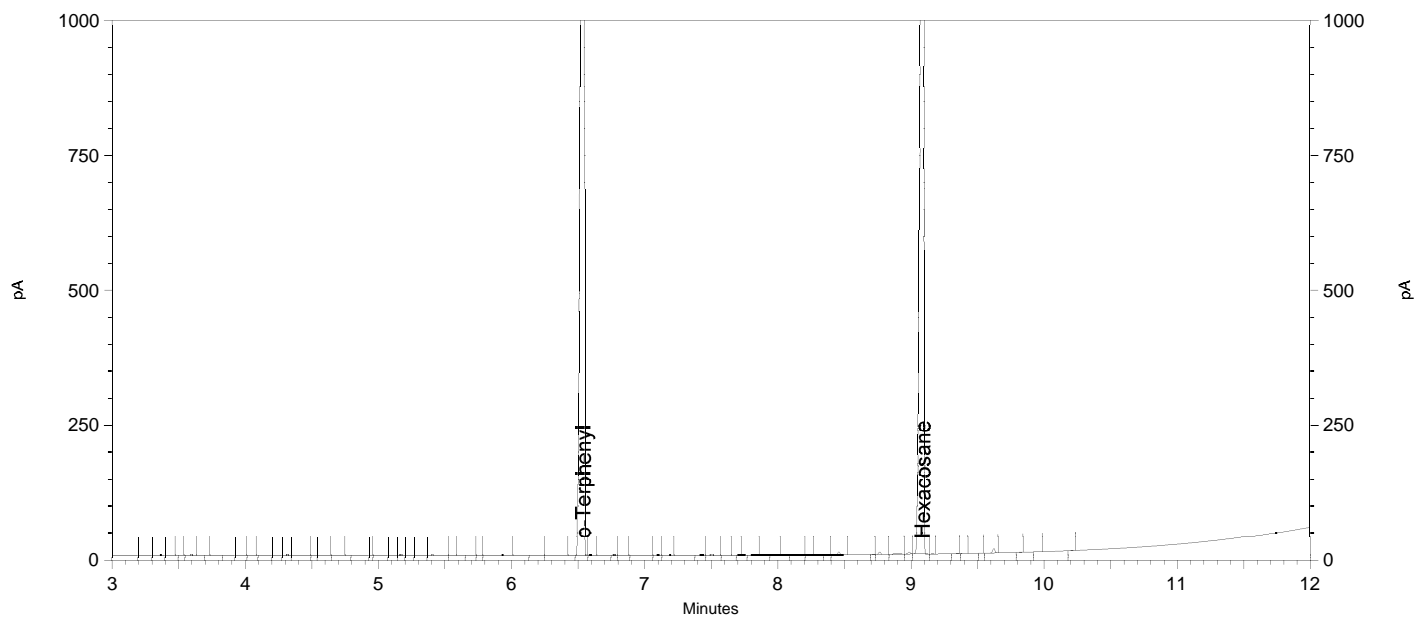
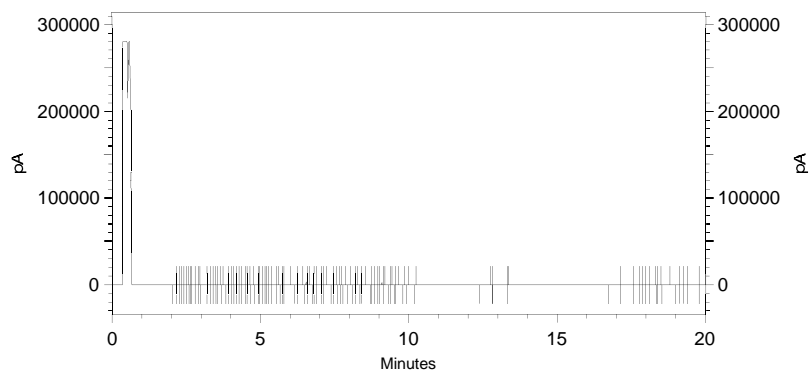
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.472	6.645	0
Yes	Split Peak	6.483	0	0
Yes	Split Peak	6.57	0	0
Yes	Manual Peak	8.955	9.187	0
Yes	Split Peak	9.017	0	0
Yes	Split Peak	9.134	0	0

Sample Name: ical,s38299,hex otp_100
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\012.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/11/2019 9:20:46 PM
 Analysis Date: 1/14/2019 4:21:44 PM
 Instrument: GC27 (Offline)A Vial: 62 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.545	40326689	100.000 CAL
Hexacosane	9.092	33139276	100.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a012.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.472	6.645	0
No	Split Peak	6.483	0	0
No	Split Peak	6.57	0	0
No	Manual Peak	8.955	9.187	0
No	Split Peak	9.017	0	0
No	Split Peak	9.134	0	0

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 979016508004
 Units : mg/L

Name : DSL_011
 Date : 11-JAN-2019 22:09
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	011a014	979016508014	DSL_10	11-JAN-2019 22:09	S38234
L2	011a015	979016508015	DSL_100	11-JAN-2019 22:33	S38235
L3	011a016	979016508016	DSL_500	11-JAN-2019 22:58	S38236
L4	011a017	979016508017	DSL_1000	11-JAN-2019 23:22	S38237
L5	011a018	979016508018	DSL_5000	11-JAN-2019 23:47	S38233

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	329470	373051	400231	377372	371906	AVRG		2.70E-6		370406	7	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-11	100.00	1	500.00	8	1000.0	2	5000.0	0

TKY 01/14/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY

Date: 01/14/19

Reviewer: EAH

Date: 01/14/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A
Calnum : 979016508004

Name : DSL_011
Cal Date : 11-JAN-2019

ICV 979016508020 (011a020 12-JAN-2019) stds: S39005

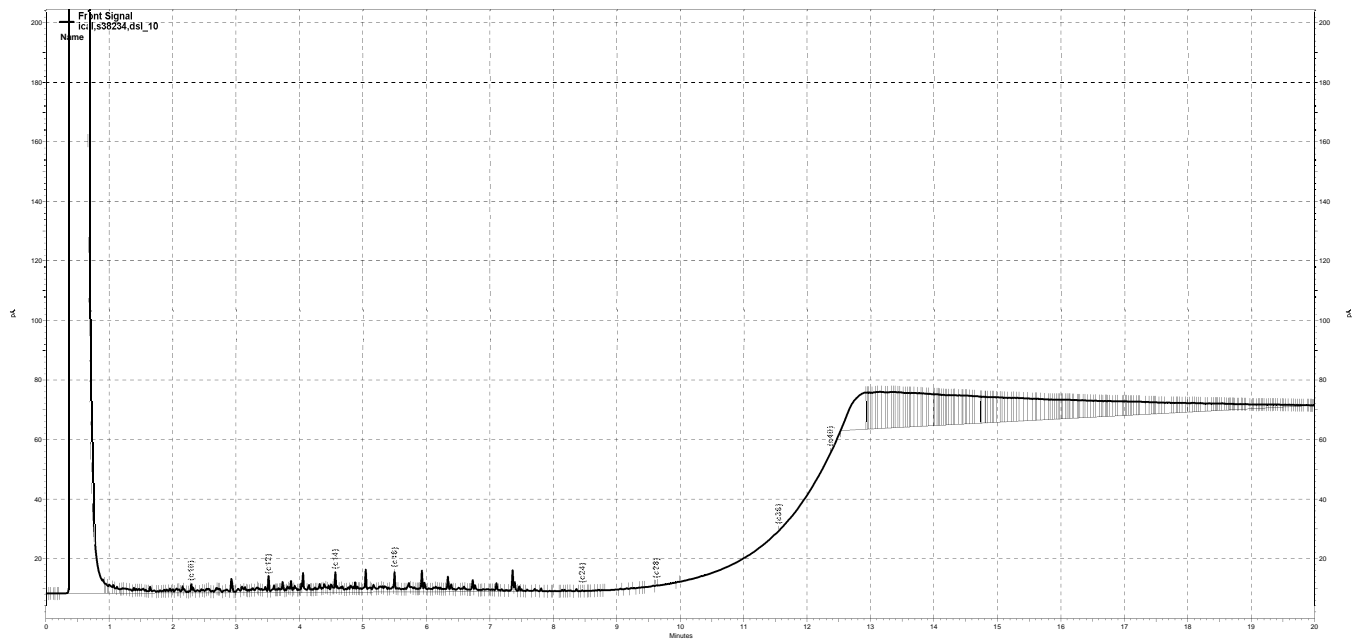
Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	490.9	mg/L	-2	15	

Analyst: TKY

Date: 01/14/19

Reviewer: EAH

Date: 01/14/19



— G:\ezchrom\Projects\GC27\Data\2019\011a014.dat, Front Signal

Sample Name: ical,s38234,dsl_10
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a014.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/11/2019 10:09:27 PM
 Analysis Date: 1/14/2019 1:18:54 PM
 Instrument: GC27 (Offline)A Vial: 64 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		2150414	0.000 CAL
DSL:10-14		1444898	10.000 CAL
DSL:10-22		3262699	10.000 CAL
DSL:10-24		3294696	10.000 CAL
DSL:10-28		3311786	10.000 CAL
DSL:12-24		2734175	10.000 CAL
DSL:12-28		2751265	10.000 CAL
DSL:14-24		1995119	10.000 CAL
DSL:16-24		1263749	10.000 CAL
MO:22-32		68574	0.000 CAL
MO:24-36		22108	0.000 CAL
MO:28-40		2380	0.000 CAL
BUNKC:10-40		3313001	0.000 CAL
BUNKC:12-40		2752480	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

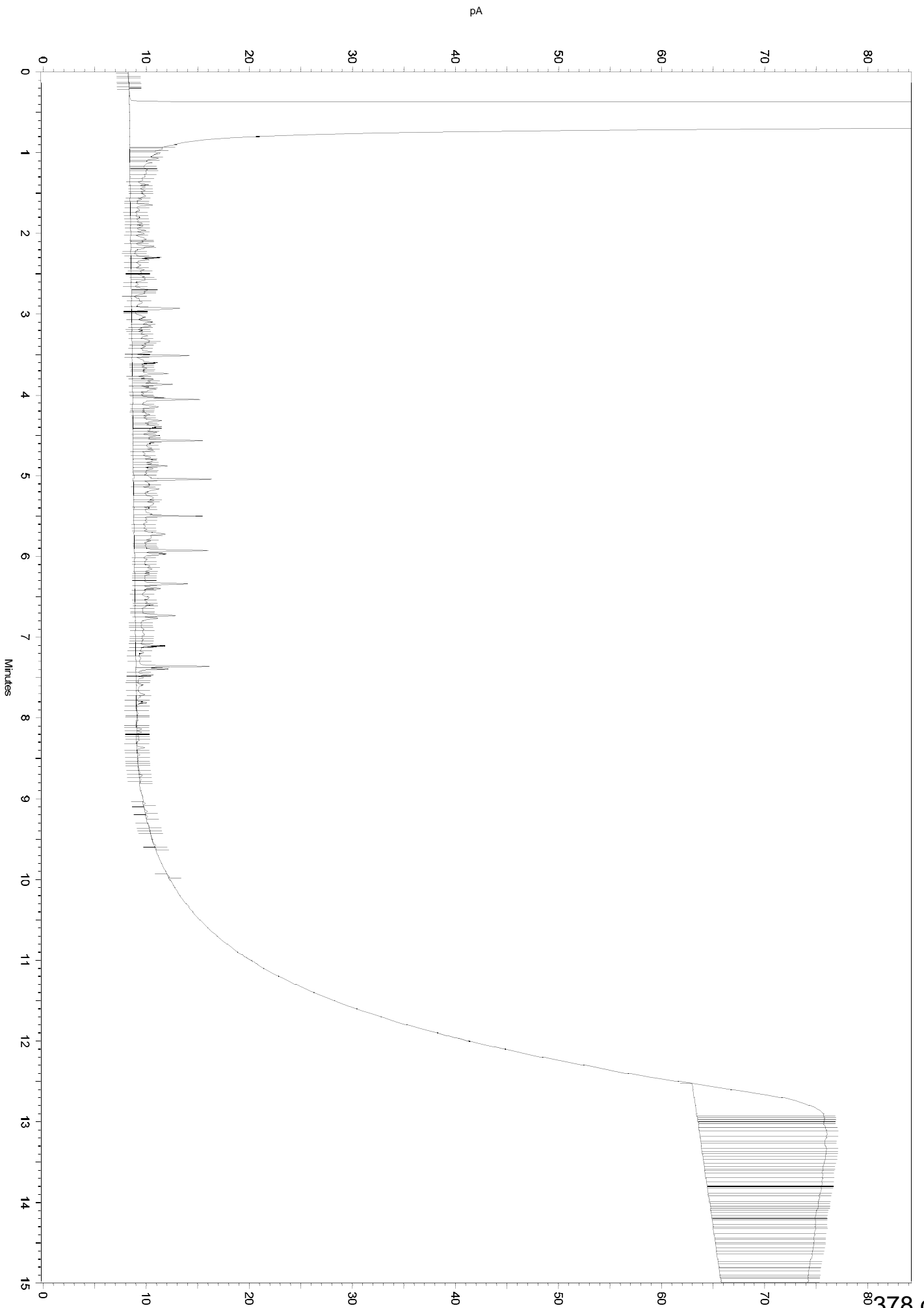
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0     0
Yes Threshold            0       0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\011a014.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Start       7.912  0.218  0
  
```

Sample Name: ical,s38234,dsl_10
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a014.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/11/2019 10:09:27 PM
 Analysis Date: 1/14/2019 1:12:44 PM
 Instrument: GC27 (Offline)A Vial: 64 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		1803180	0.000 CAL
DSL:10-14		1166043	10.000 CAL
DSL:10-22		2841282	10.000 CAL
DSL:10-24		2872986	10.000 CAL
DSL:10-28		2890076	10.000 CAL
DSL:12-24		2470445	10.000 CAL
DSL:12-28		2487535	10.000 CAL
DSL:14-24		1839927	10.000 CAL
DSL:16-24		1180736	10.000 CAL
MO:22-32		67569	0.000 CAL
MO:24-36		22108	0.000 CAL
MO:28-40		2380	0.000 CAL
BUNKC:10-40		2891291	0.000 CAL
BUNKC:12-40		2488750	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

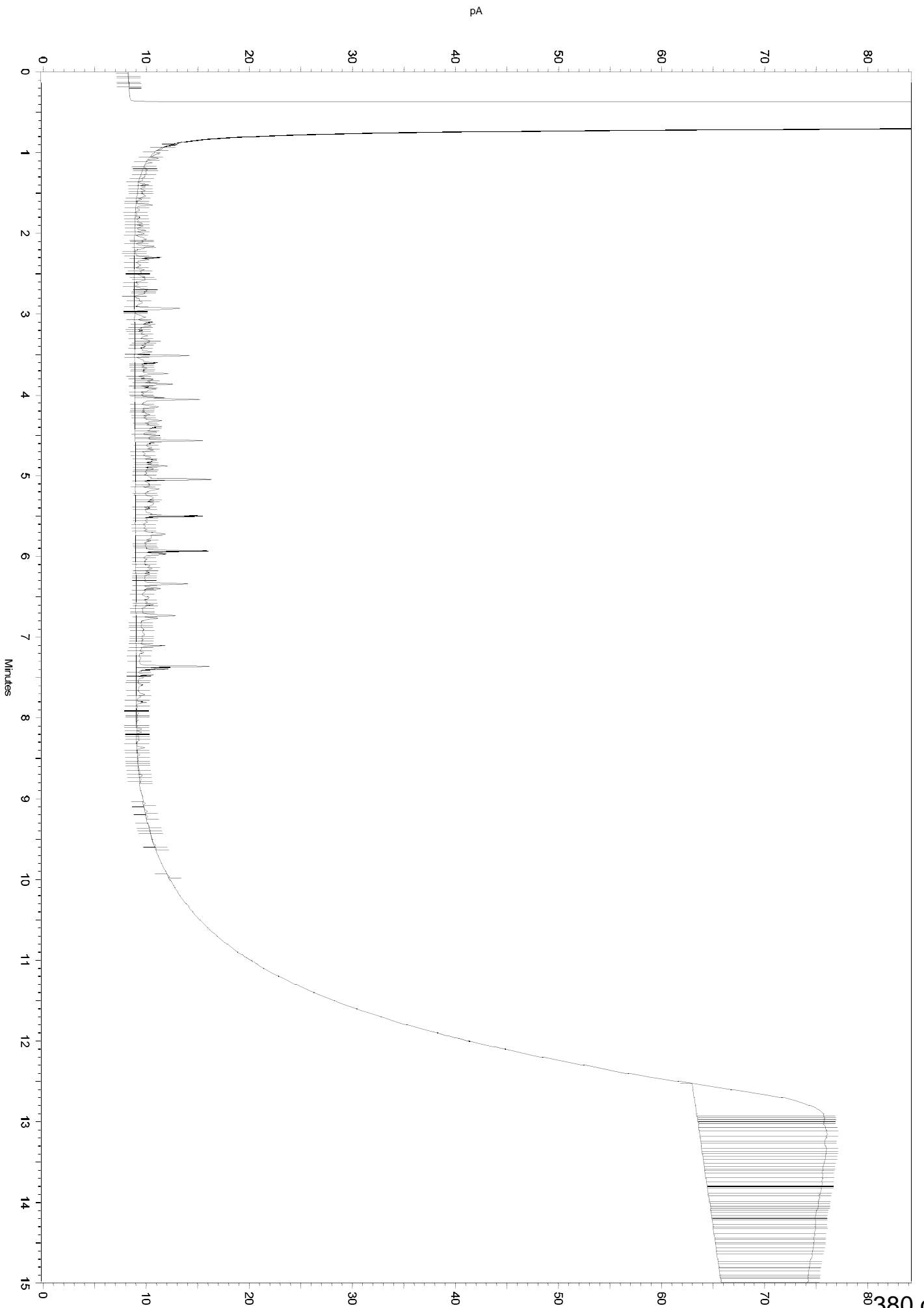
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold            0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\011a014.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Move BL Start        2.247     0.302     0
  
```

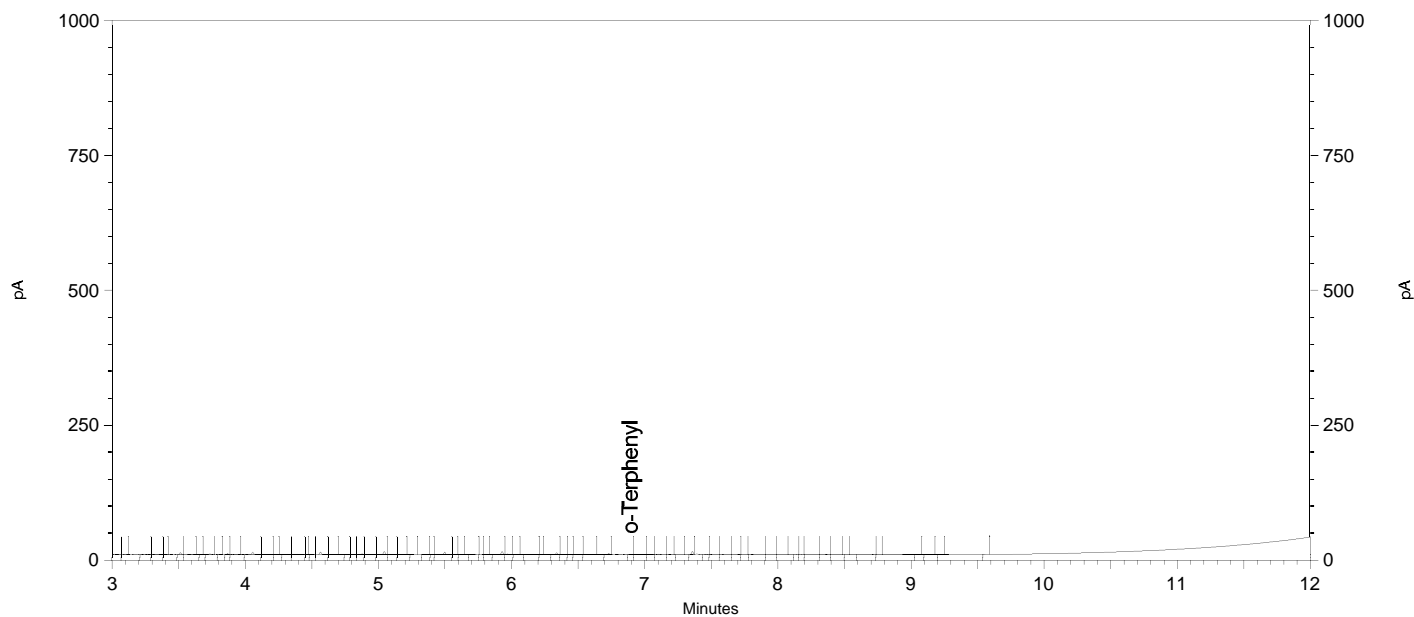
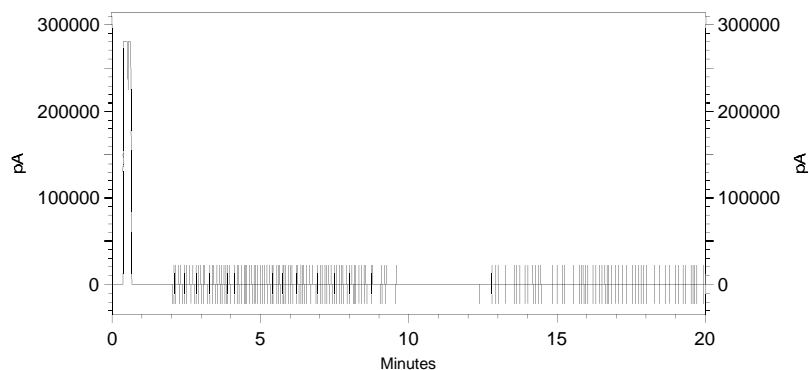


Sample Name: ical,s38234,dsl_10
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a014.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_007test.met
 Run Date: 1/11/2019 10:09:27 PM
 Analysis Date: 1/11/2019 10:29:30 PM
 Instrument: GC27A Vial: 64 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.895	2148	0.000
Hexacosane			0.000 BDL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

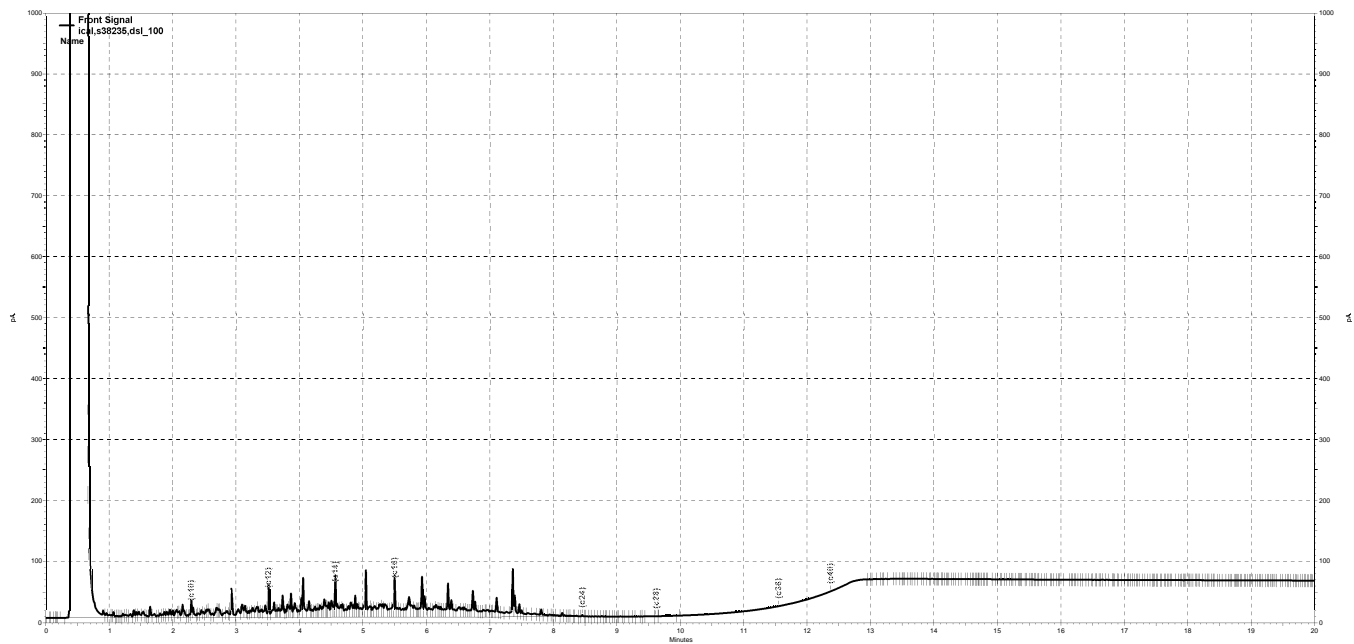
Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\011a014.dat_A581.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— G:\ezchrom\Projects\GC27\Data\2019\011a015.dat, Front Signal

Sample Name: ical,s38235,dsl_100
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/11/2019 10:33:57 PM
 Analysis Date: 1/14/2019 1:18:57 PM
 Instrument: GC27 (Offline)A Vial: 65 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		22682796	0.000 CAL
DSL:10-14		14906364	100.000 CAL
DSL:10-22		36747605	100.000 CAL
DSL:10-24		37305098	100.000 CAL
DSL:10-28		37389845	100.000 CAL
DSL:12-24		31791265	100.000 CAL
DSL:12-28		31876012	100.000 CAL
DSL:14-24		23957243	100.000 CAL
DSL:16-24		15980028	100.000 CAL
MO:22-32		989598	0.000 CAL
MO:24-36		156576	0.000 CAL
MO:28-40		4579	0.000 CAL
BUNKC:10-40		37391280	0.000 CAL
BUNKC:12-40		31877447	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

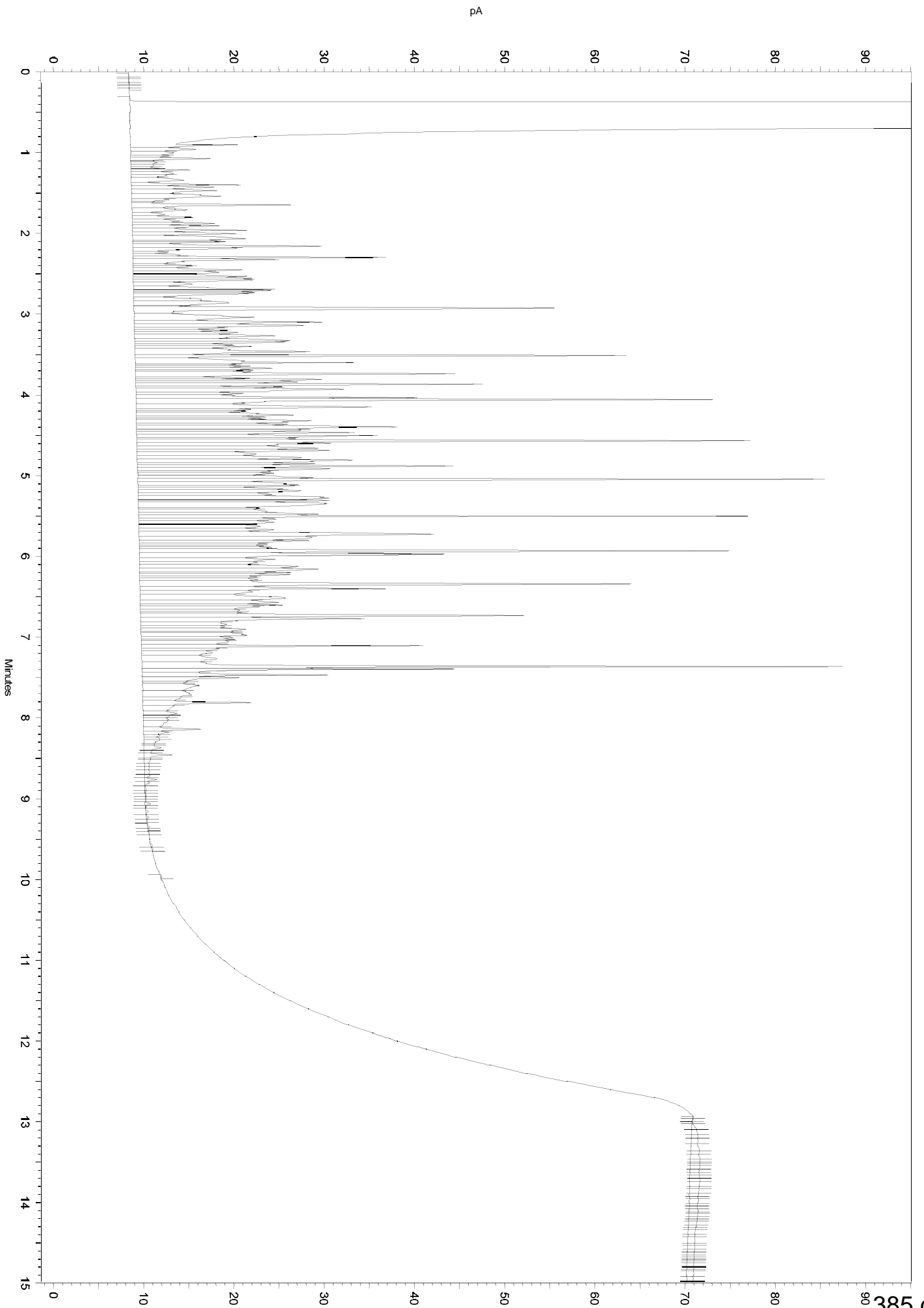
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0     0
Yes Threshold           0       0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\011a015.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Start      1.363  0.303   0
  
```



Sample Name: ical,s38235,dsl_100
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/11/2019 10:33:57 PM
 Analysis Date: 1/14/2019 12:51:50 PM
 Instrument: GC27 (Offline)A Vial: 65 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		20825020	0.000 CAL
DSL:10-14		13444947	100.000 CAL
DSL:10-22		34304137	100.000 CAL
DSL:10-24		34806513	100.000 CAL
DSL:10-28		34879309	100.000 CAL
DSL:12-24		30102351	100.000 CAL
DSL:12-28		30175147	100.000 CAL
DSL:14-24		22849844	100.000 CAL
DSL:16-24		15285537	100.000 CAL
MO:22-32		899557	0.000 CAL
MO:24-36		135102	0.000 CAL
MO:28-40		4579	0.000 CAL
BUNKC:10-40		34880744	0.000 CAL
BUNKC:12-40		30176582	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

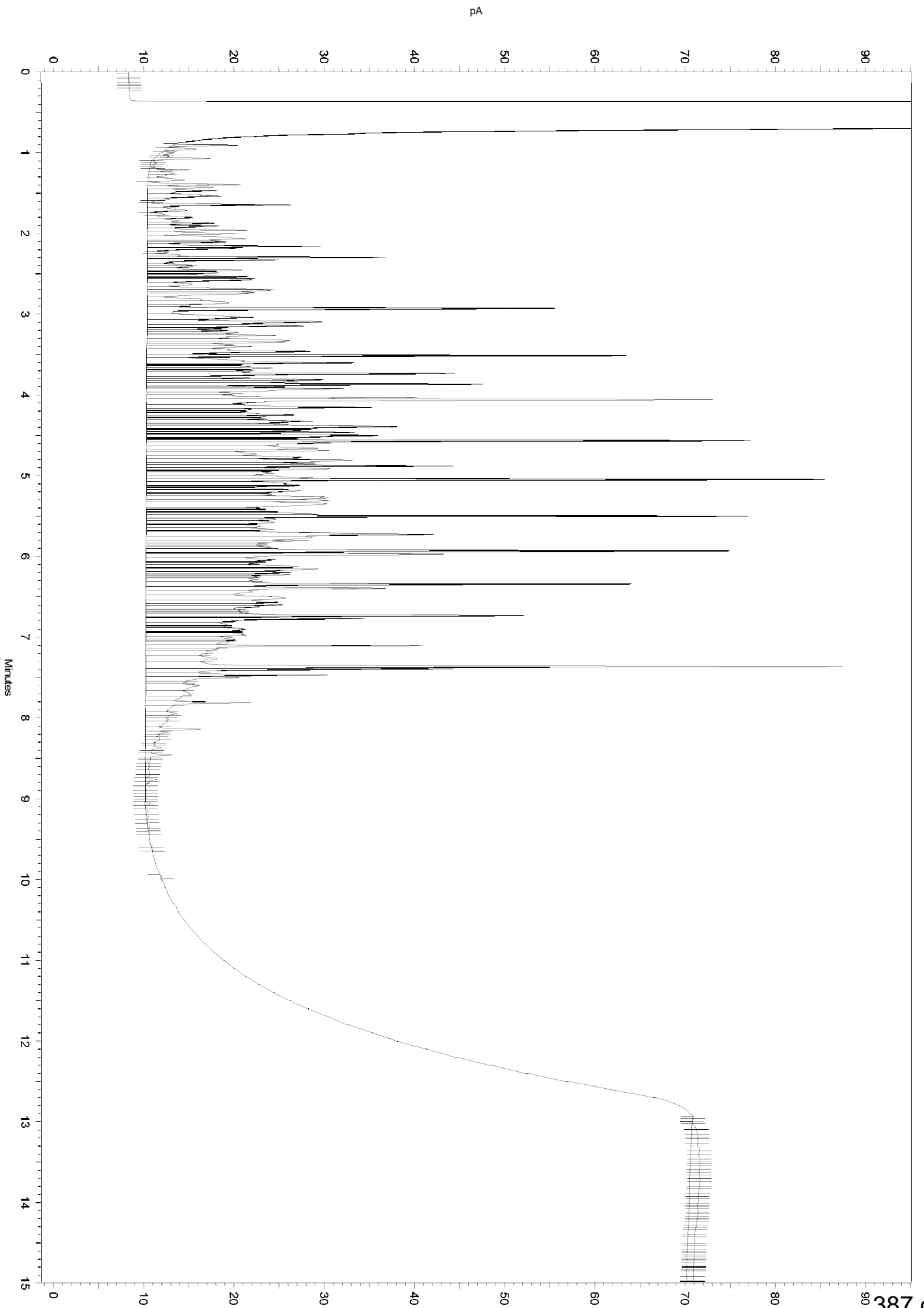
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold           0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\011a015.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

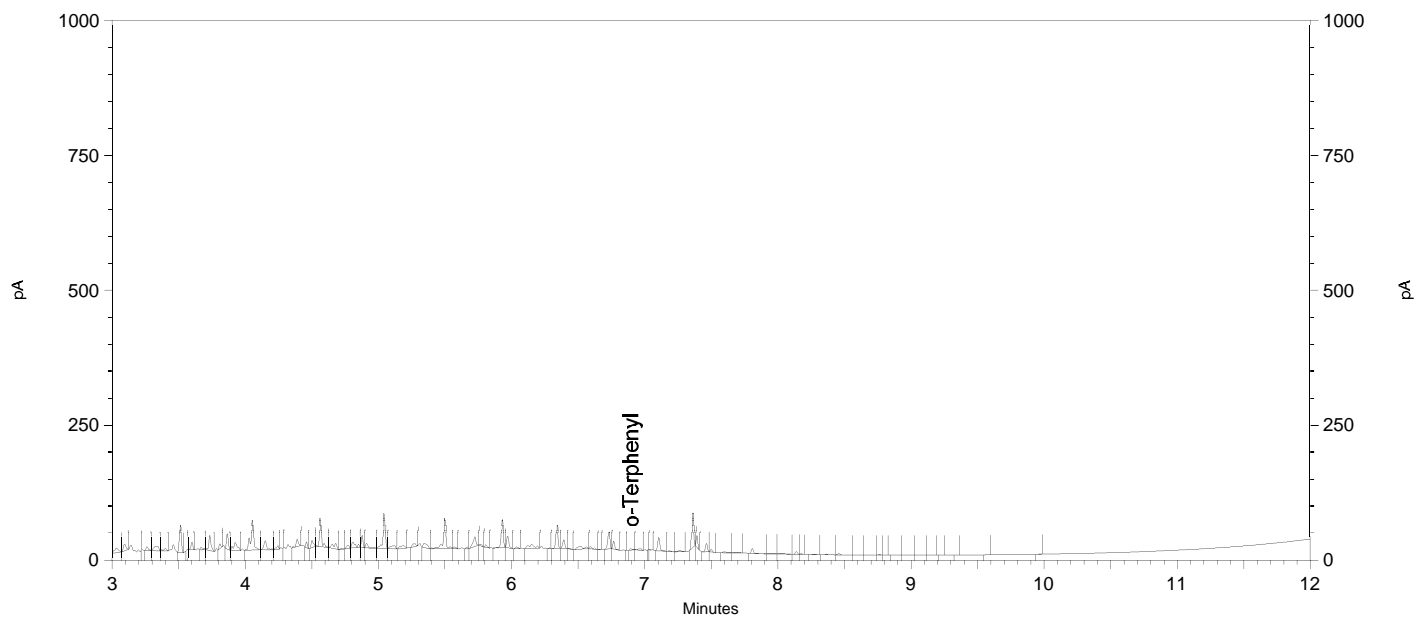
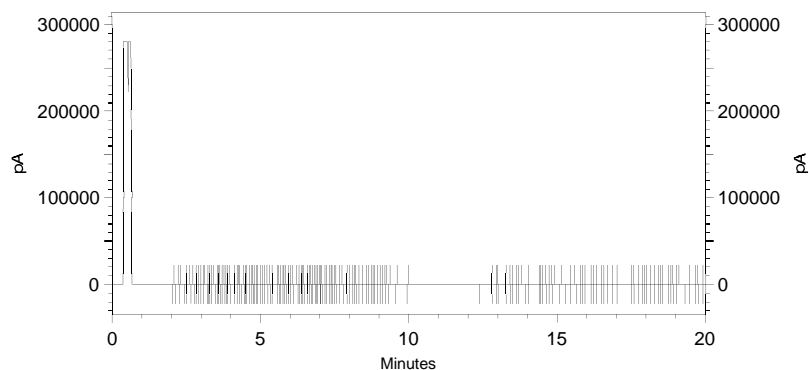


Sample Name: ical,s38235,dsl_100
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a015.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_007test.met
 Run Date: 1/11/2019 10:33:57 PM
 Analysis Date: 1/11/2019 10:53:58 PM
 Instrument: GC27A Vial: 65 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.898	26896	0.000
Hexacosane			0.000 BDL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

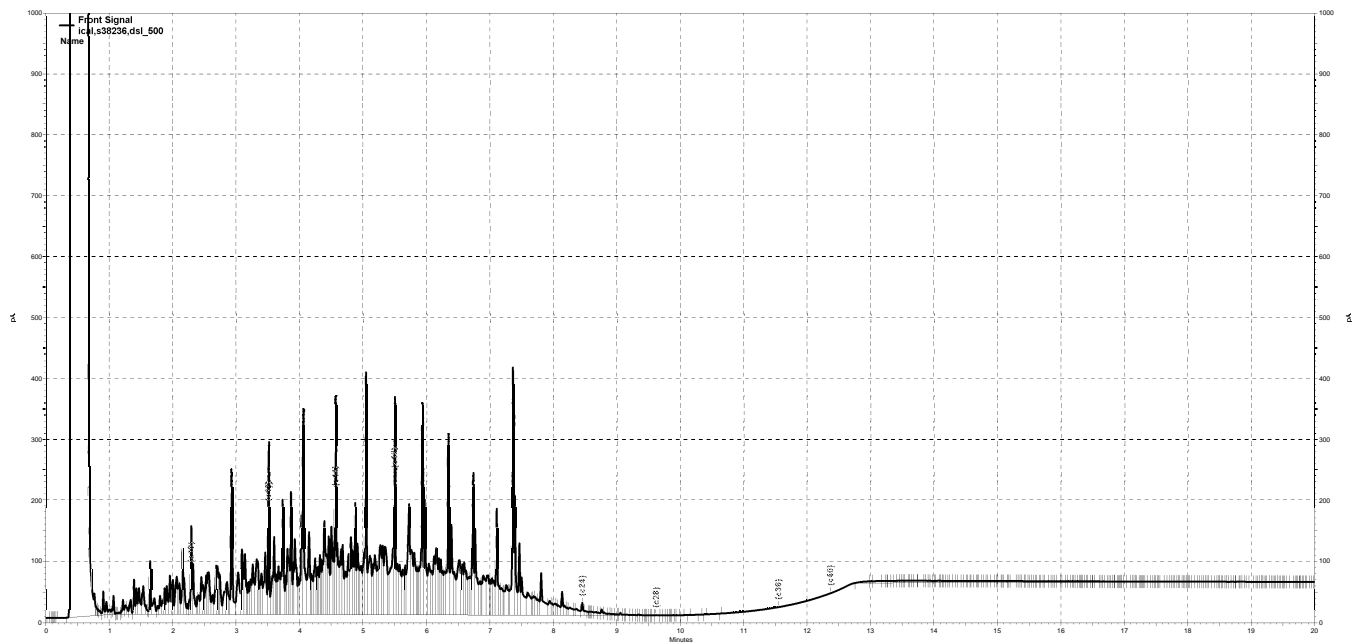
Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\011a015.dat_A582.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— G:\ezchrom\Projects\GC27\Data\2019\011a016.dat, Front Signal

Sample Name: ical,s38236,dsl_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\016.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/11/2019 10:58:18 PM
 Analysis Date: 1/14/2019 1:19:01 PM
 Instrument: GC27 (Offline)A Vial: 66 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		118252184	0.000 CAL
DSL:10-14		76685932	500.000 CAL
DSL:10-22		196391876	500.000 CAL
DSL:10-24		200115543	500.000 CAL
DSL:10-28		201159320	500.000 CAL
DSL:12-24		172528703	500.000 CAL
DSL:12-28		173572480	500.000 CAL
DSL:14-24		131650682	500.000 CAL
DSL:16-24		89407853	500.000 CAL
MO:22-32		6834251	0.000 CAL
MO:24-36		1351247	0.000 CAL
MO:28-40		28788	0.000 CAL
BUNKC:10-40		201178442	0.000 CAL
BUNKC:12-40		173591602	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

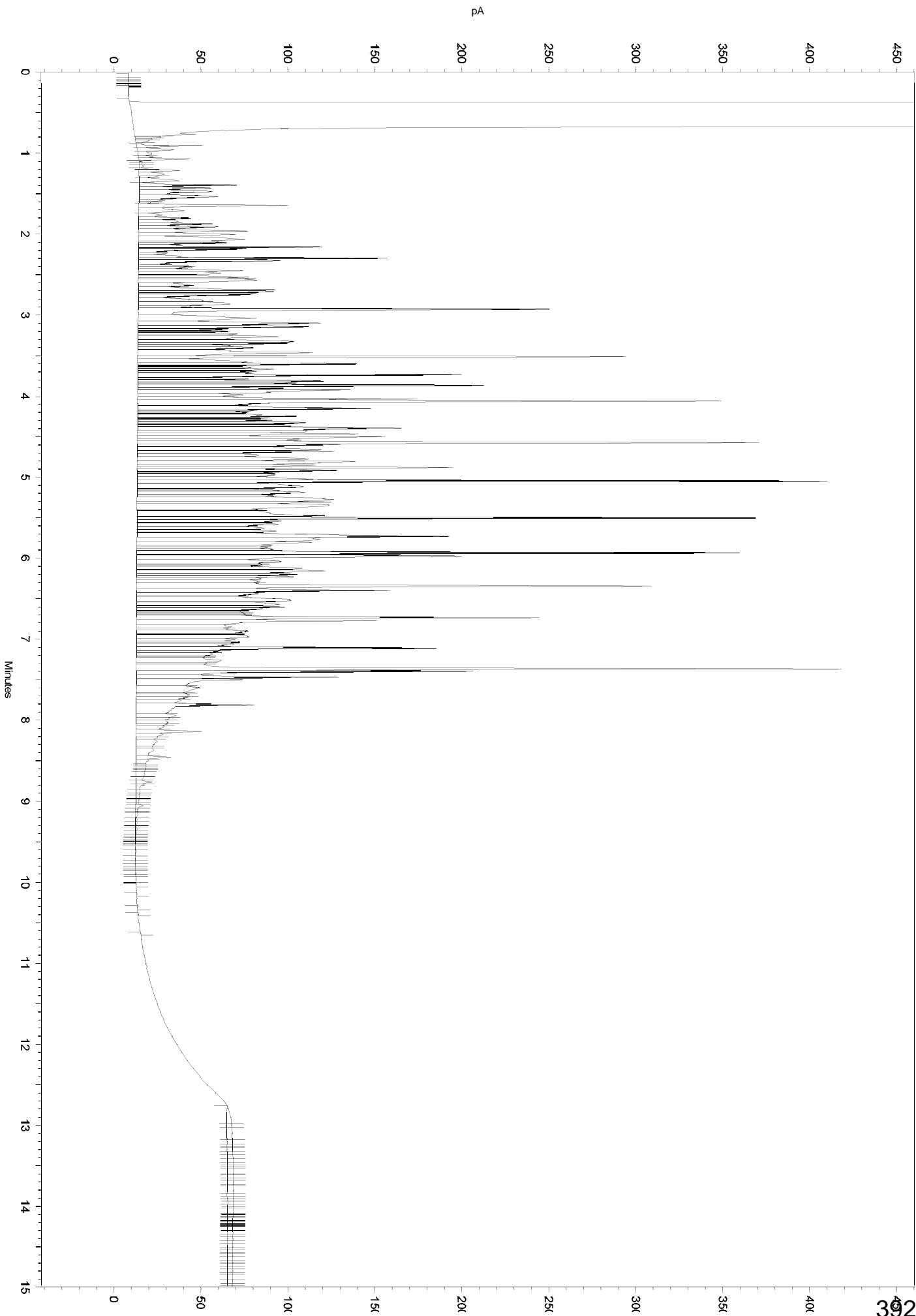
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\016.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        8.432  9.681   0
Yes Move BL Start       0.885  0.329   0
  
```



Sample Name: ical,s38236,dsl_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a016.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/11/2019 10:58:18 PM
 Analysis Date: 1/14/2019 12:52:20 PM
 Instrument: GC27 (Offline)A Vial: 66 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		114198592	0.000 CAL
DSL:10-14		74254987	500.000 CAL
DSL:10-22		186569470	500.000 CAL
DSL:10-24		188529370	500.000 CAL
DSL:10-28		188760815	500.000 CAL
DSL:12-24		161843687	500.000 CAL
DSL:12-28		162075132	500.000 CAL
DSL:14-24		122277806	500.000 CAL
DSL:16-24		81592516	500.000 CAL
MO:22-32		3770716	0.000 CAL
MO:24-36		362837	0.000 CAL
MO:28-40		30863	0.000 CAL
BUNKC:10-40		188779937	0.000 CAL
BUNKC:12-40		162094254	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

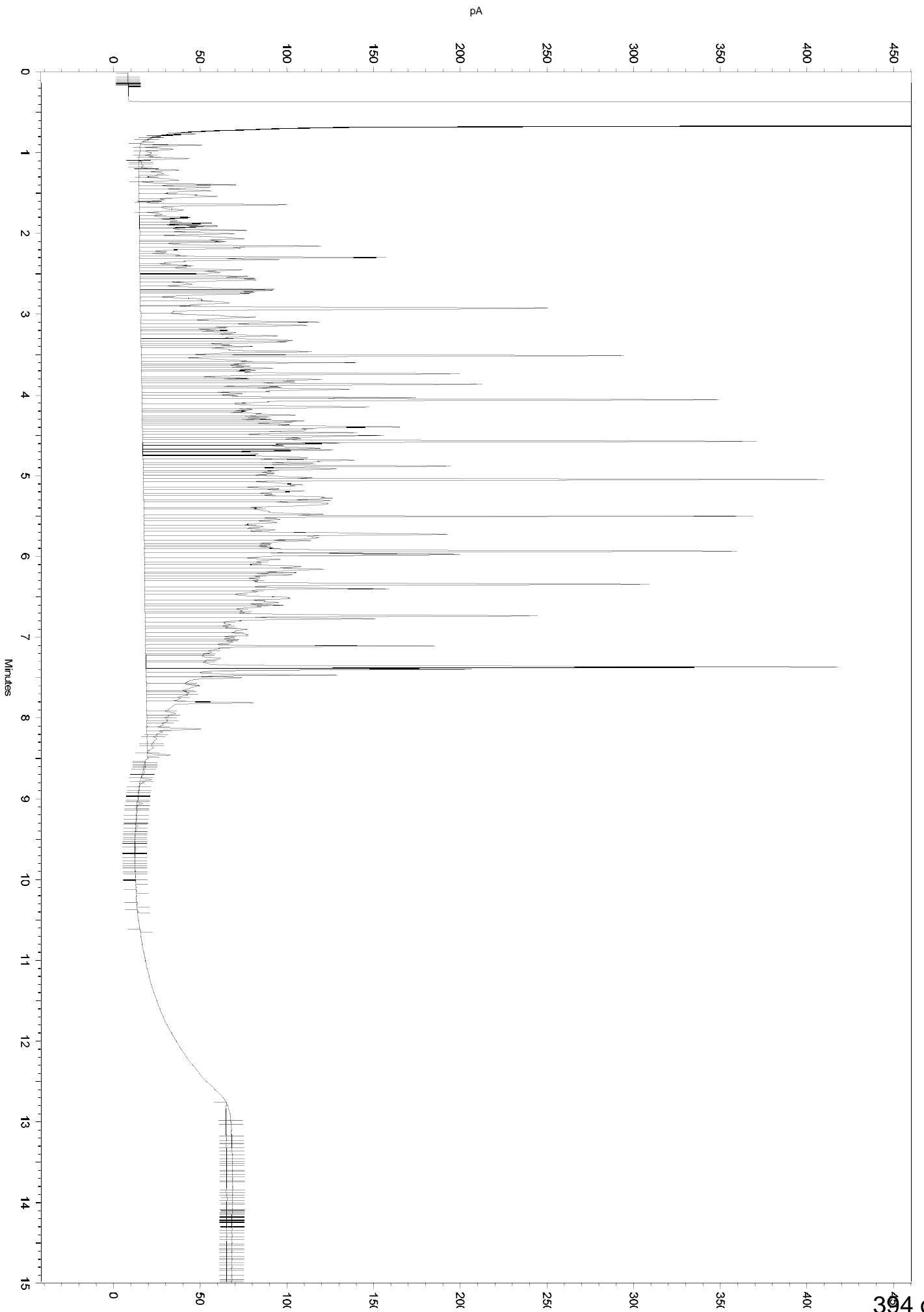
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\011a016.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

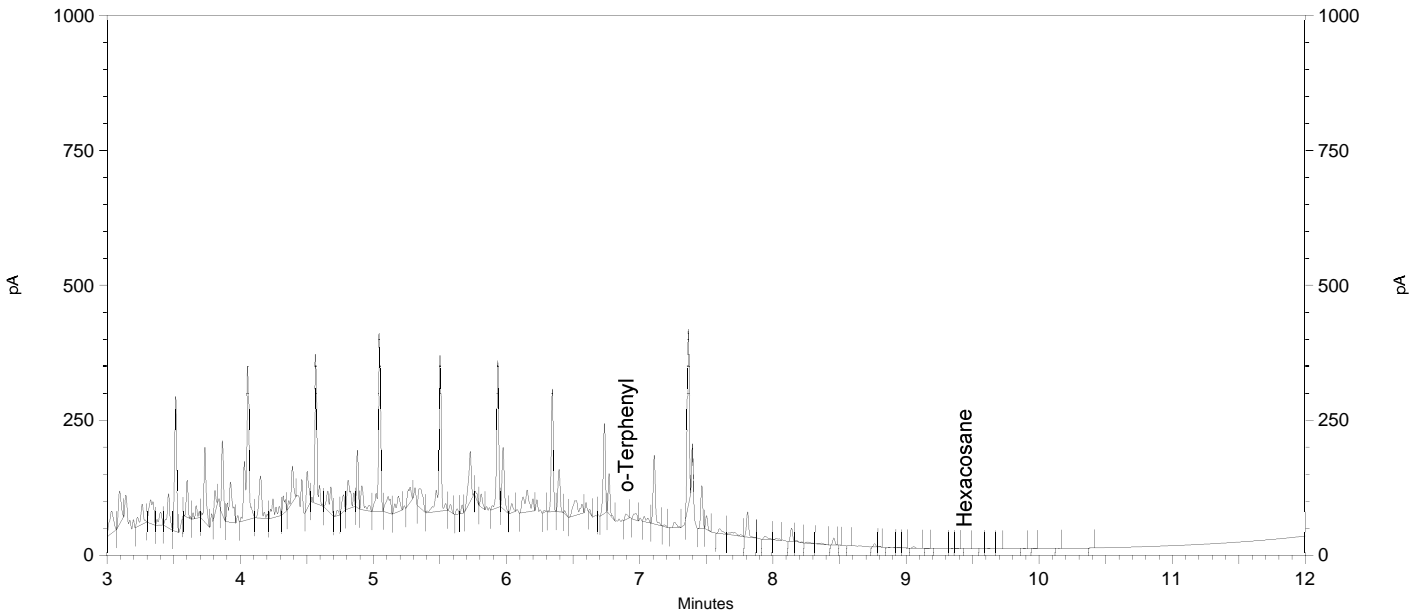
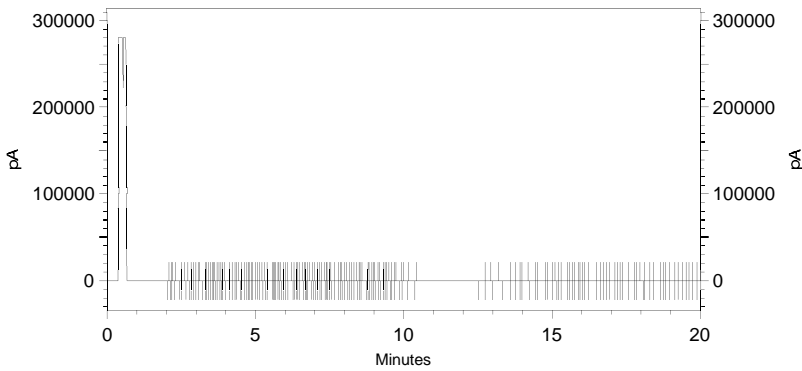
Sample Name: ical,s38236,dsl_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\016.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_007test.met
 Run Date: 1/11/2019 10:58:18 PM
 Analysis Date: 1/11/2019 11:18:18 PM
 Instrument: GC27A Vial: 66 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.897	114458	0.000
Hexacosane	9.440	1415	0.000



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

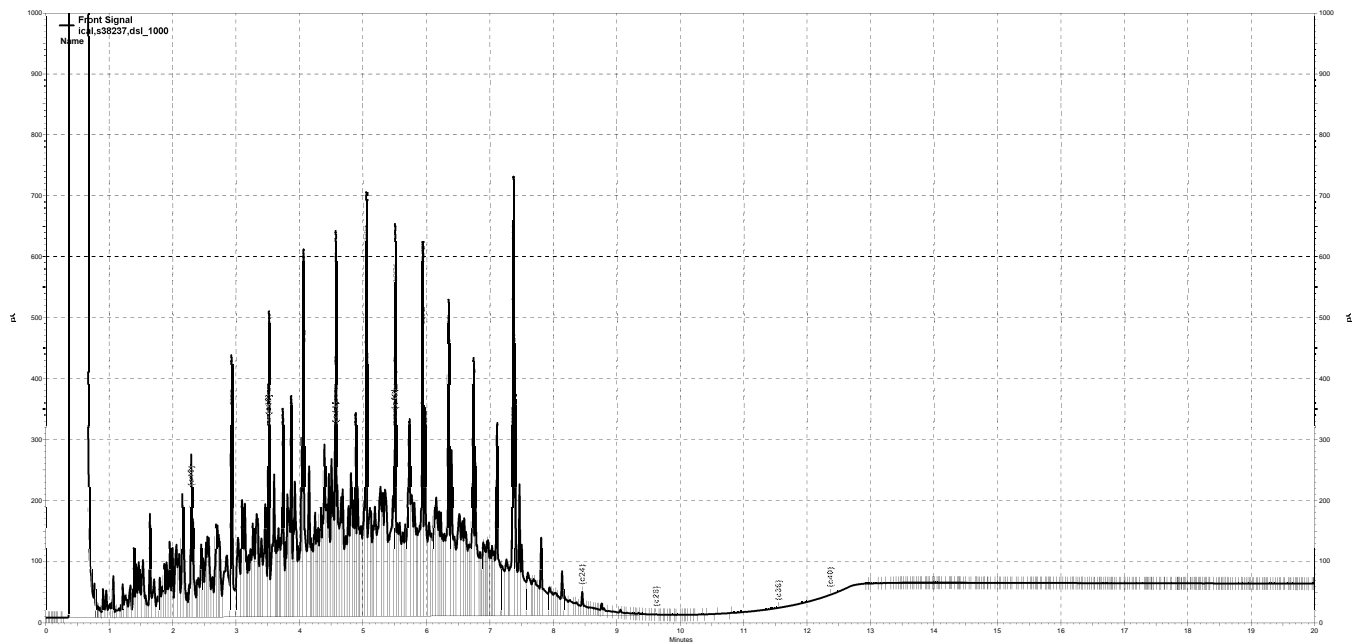
Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\011a016.dat_A583.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— G:\ezchrom\Projects\GC27\Data\2019\011a017.dat, Front Signal

Sample Name: ical,s38237,dsl_1000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a017.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/11/2019 11:22:52 PM
 Analysis Date: 1/14/2019 1:19:04 PM
 Instrument: GC27 (Offline)A Vial: 67 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		223693699	0.000 CAL
DSL:10-14		146820026	1000.000 CAL
DSL:10-22		369642552	1000.000 CAL
DSL:10-24		377371818	1000.000 CAL
DSL:10-28		380212453	1000.000 CAL
DSL:12-24		322726732	1000.000 CAL
DSL:12-28		325567367	1000.000 CAL
DSL:14-24		245719298	1000.000 CAL
DSL:16-24		167193170	1000.000 CAL
MO:22-32		14506513	0.000 CAL
MO:24-36		3980759	0.000 CAL
MO:28-40		86403	0.000 CAL
BUNKC:10-40		380250117	0.000 CAL
BUNKC:12-40		325605031	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

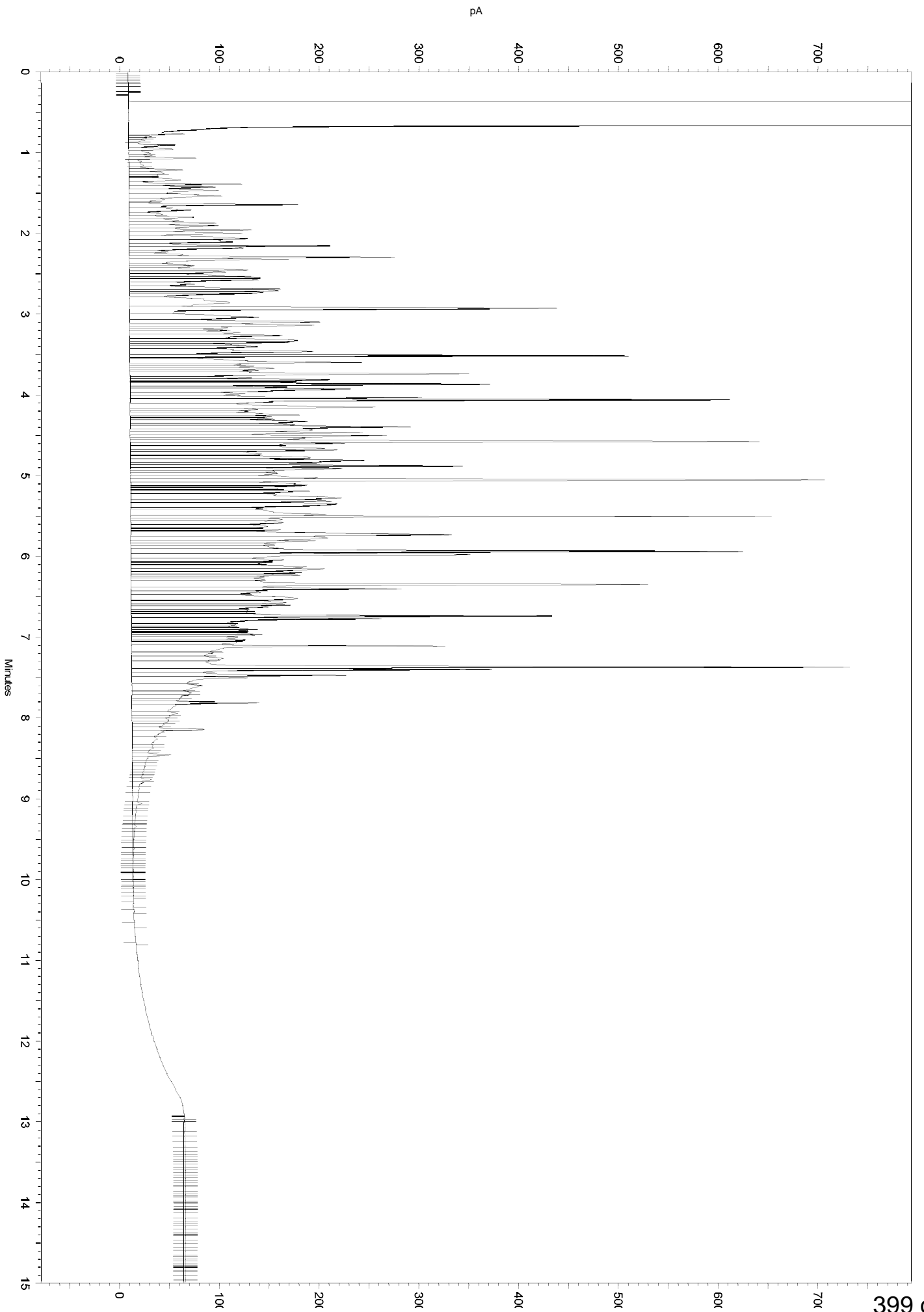
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a017.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	1.09	0.284	0



Sample Name: ical,s38237,dsl_1000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a017.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/11/2019 11:22:52 PM
 Analysis Date: 1/14/2019 12:52:52 PM
 Instrument: GC27 (Offline)A Vial: 67 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		214494803	0.000 CAL
DSL:10-14		139664153	1000.000 CAL
DSL:10-22		357066162	1000.000 CAL
DSL:10-24		364345882	1000.000 CAL
DSL:10-28		366798540	1000.000 CAL
DSL:12-24		313617963	1000.000 CAL
DSL:12-28		316070621	1000.000 CAL
DSL:14-24		239495111	1000.000 CAL
DSL:16-24		163081393	1000.000 CAL
MO:22-32		13512529	0.000 CAL
MO:24-36		3508263	0.000 CAL
MO:28-40		68028	0.000 CAL
BUNKC:10-40		366831772	0.000 CAL
BUNKC:12-40		316103853	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

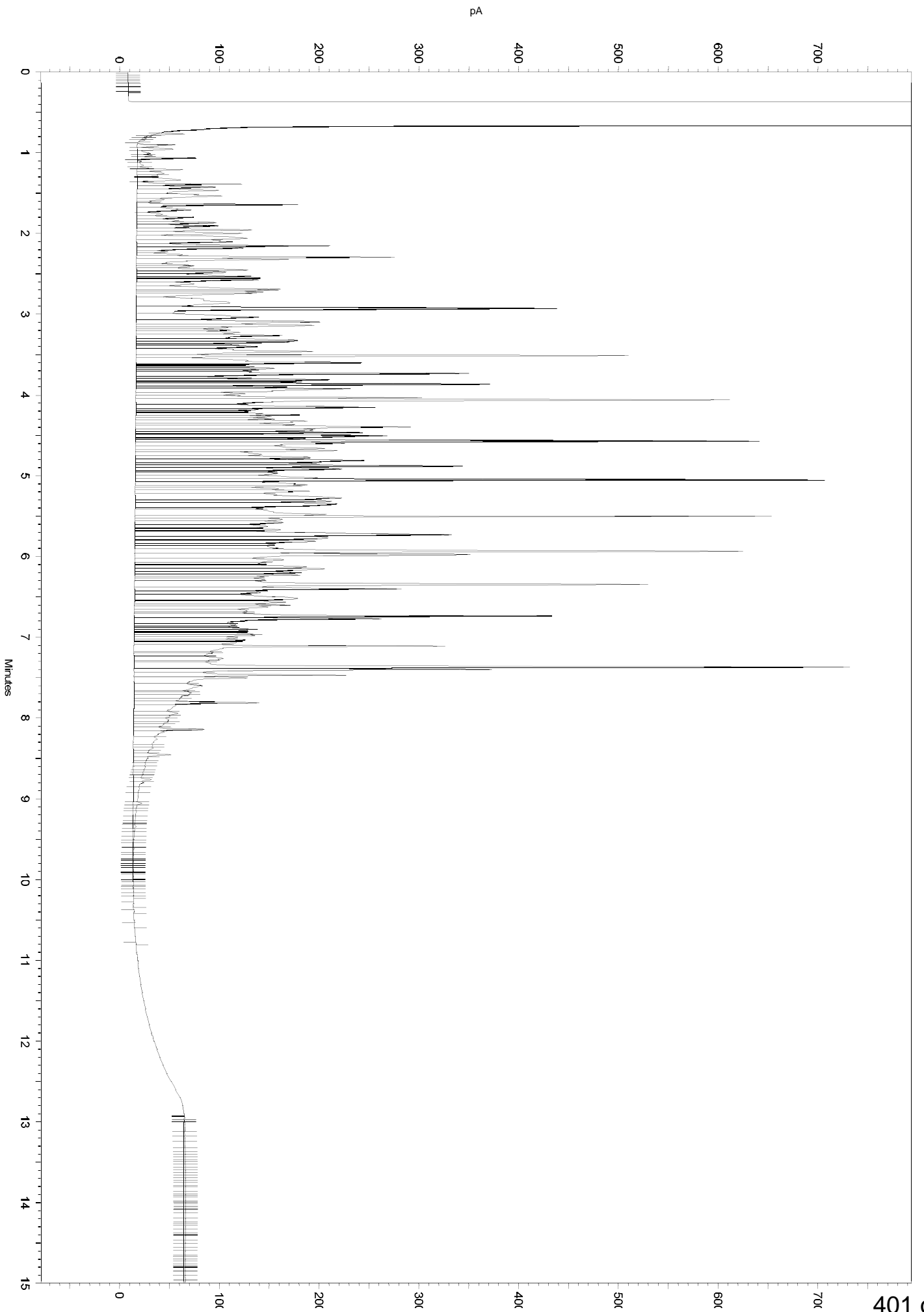
Integration Events

=====				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

=====				
Data File: G:\ezchrom\Projects\GC27\Data\2019\011a017.dat				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None				



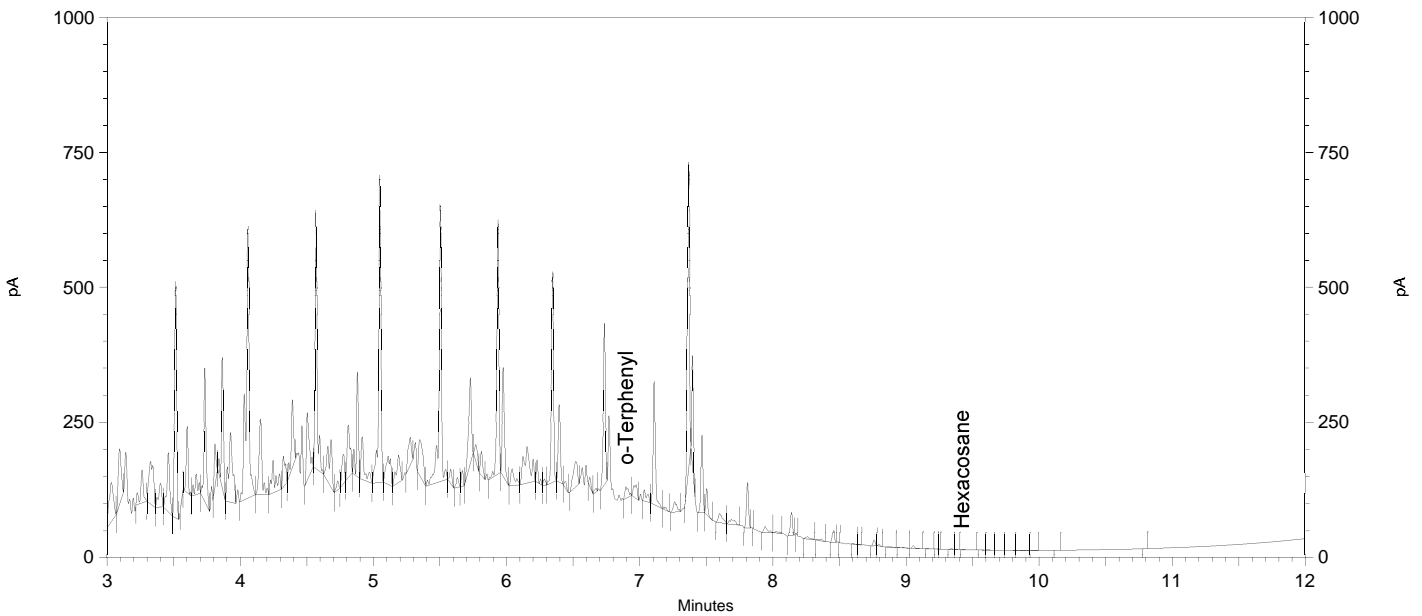
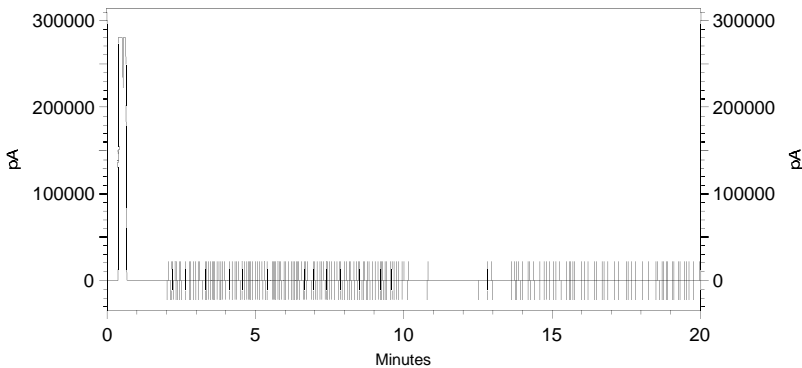
Sample Name: ical,s38237,dsl_1000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\017.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_007test.met
 Run Date: 1/11/2019 11:22:52 PM
 Analysis Date: 1/11/2019 11:42:52 PM
 Instrument: GC27A Vial: 67 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.897	292175	0.000
Hexacosane	9.420	6611	0.000



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

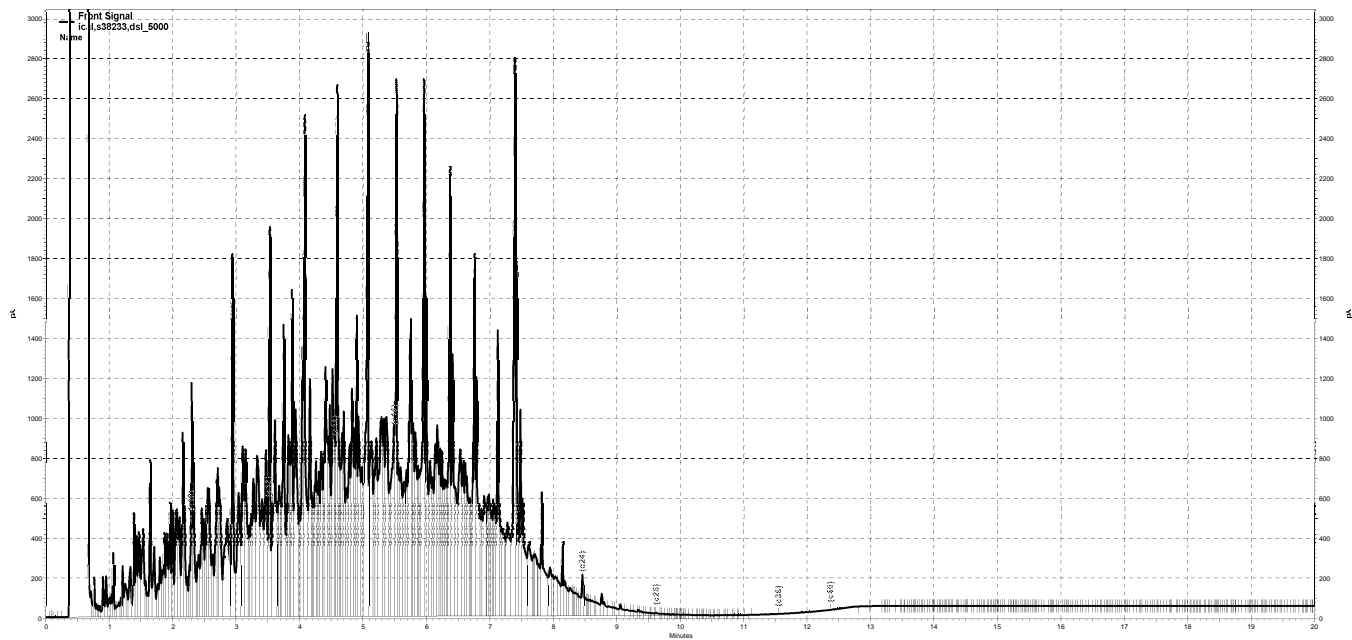
Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\011a017.dat_A584.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— G:\ezchrom\Projects\GC27\Data\2019\011a018.dat, Front Signal

Sample Name: ical,s38233,dsl_5000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a018.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/11/2019 11:47:15 PM
 Analysis Date: 1/14/2019 1:19:08 PM
 Instrument: GC27 (Offline)A Vial: 68 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		1094664888	0.000 CAL
DSL:10-14		710792209	5000.000 CAL
DSL:10-22		1817708994	5000.000 CAL
DSL:10-24		1859531856	5000.000 CAL
DSL:10-28		1878456032	5000.000 CAL
DSL:12-24		1594025597	5000.000 CAL
DSL:12-28		1612949773	5000.000 CAL
DSL:14-24		1218268680	5000.000 CAL
DSL:16-24		839027125	5000.000 CAL
MO:22-32		82967616	0.000 CAL
MO:24-36		26275678	0.000 CAL
MO:28-40		1935995	0.000 CAL
BUNKC:10-40		1879703806	0.000 CAL
BUNKC:12-40		1614197547	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

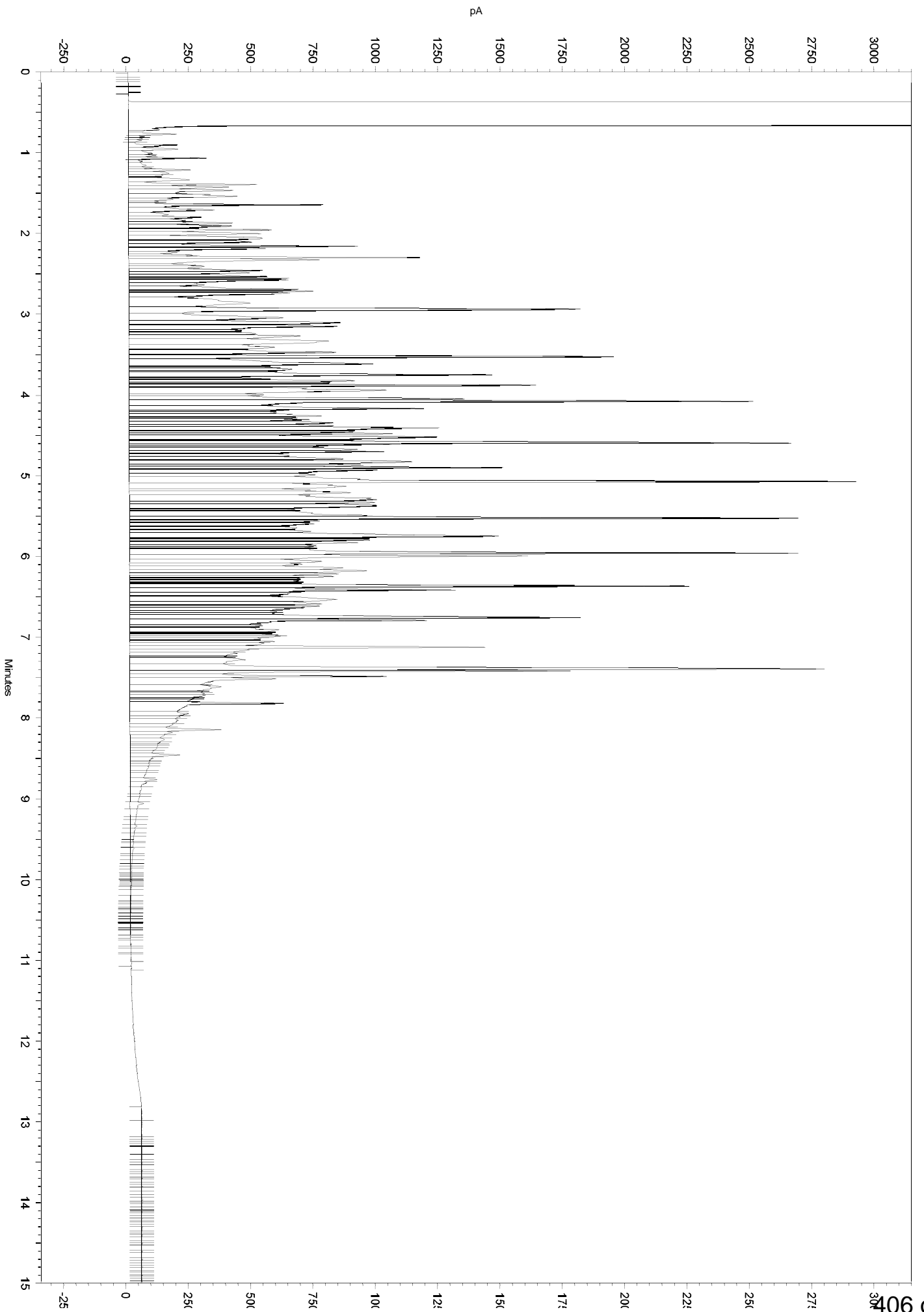
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a018.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	10.453	0.271	0



Sample Name: ical,s38233,dsl_5000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a018.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/11/2019 11:47:15 PM
 Analysis Date: 1/14/2019 12:53:17 PM
 Instrument: GC27 (Offline)A Vial: 68 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		1059610331	0.000 CAL
DSL:10-14		684830751	5000.000 CAL
DSL:10-22		1762948309	5000.000 CAL
DSL:10-24		1800284706	5000.000 CAL
DSL:10-28		1811983706	5000.000 CAL
DSL:12-24		1548372596	5000.000 CAL
DSL:12-28		1560071596	5000.000 CAL
DSL:14-24		1183670032	5000.000 CAL
DSL:16-24		813267068	5000.000 CAL
MO:22-32		68897872	0.000 CAL
MO:24-36		17080598	0.000 CAL
MO:28-40		254275	0.000 CAL
BUNKC:10-40		1812174090	0.000 CAL
BUNKC:12-40		1560261980	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

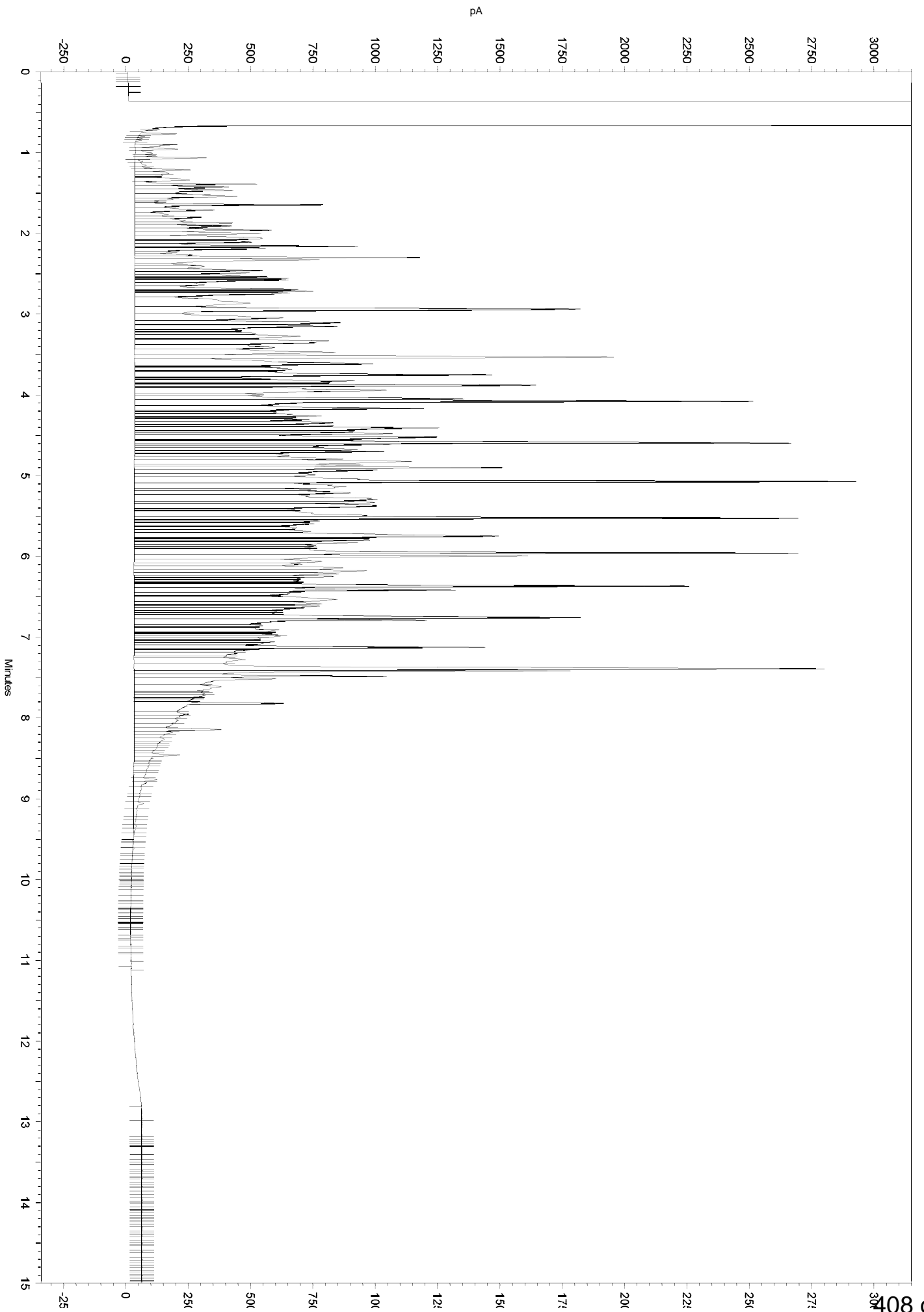
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a018.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

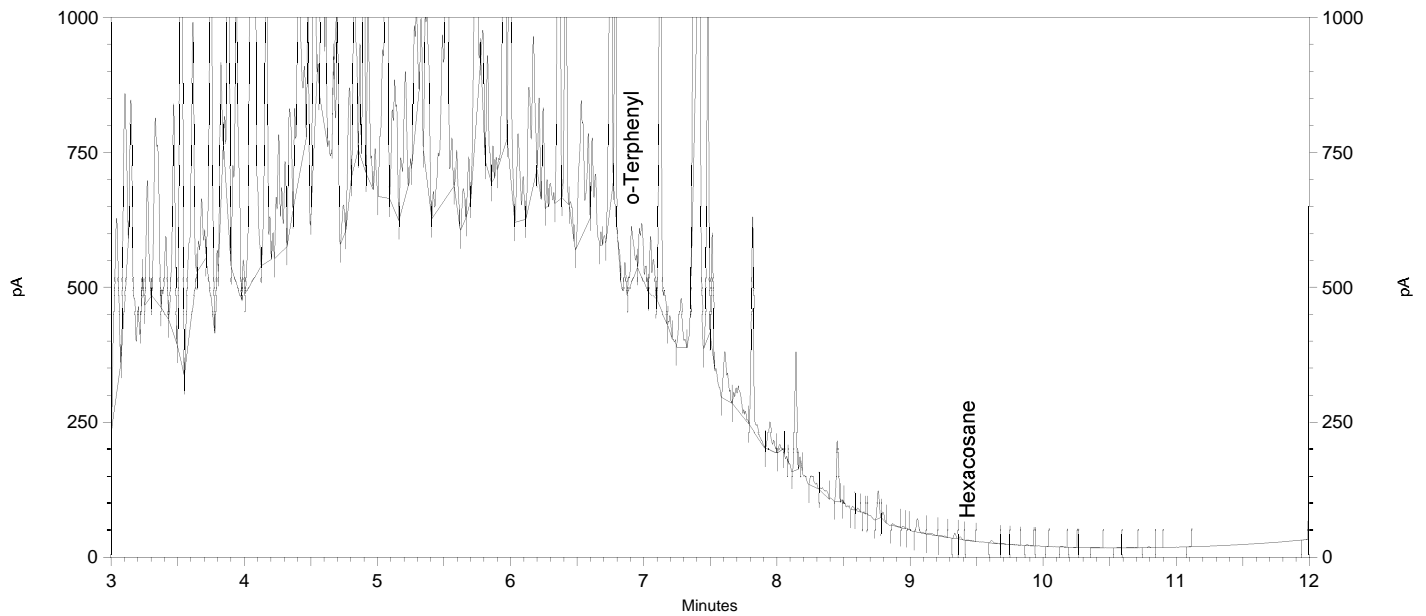
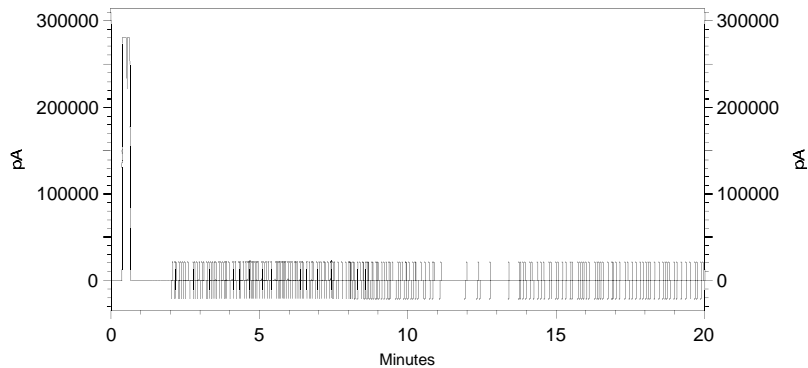


Sample Name: ical,s38233,dsl_5000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\018.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_007test.met
 Run Date: 1/11/2019 11:47:15 PM
 Analysis Date: 1/12/2019 12:07:16 AM
 Instrument: GC27A Vial: 68 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.908	1550294	0.000
Hexacosane	9.435	23149	0.000



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

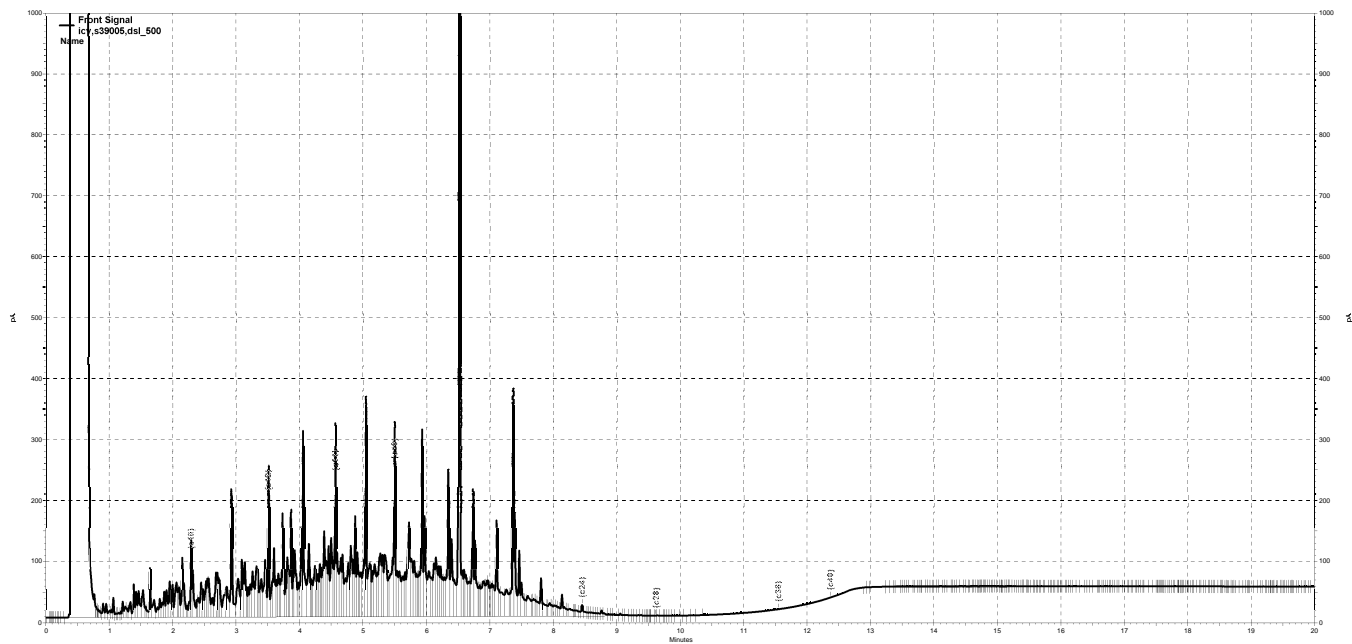
Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\011a018.dat_A585.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— G:\ezchrom\Projects\GC27\Data\2019\011a020.dat, Front Signal

Sample Name: icv,s39005,dsI_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a020.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/12/2019 12:36:13 AM
 Analysis Date: 1/14/2019 1:35:37 PM
 Instrument: GC27 (Offline)A Vial: 70 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		108621179	229.318
DSL:10-14		71122873	483.235
DSL:10-22		201000990	552.287
DSL:10-24		204753519	552.781
DSL:10-28		205912758	552.549
DSL:12-24		178458838	565.488
DSL:12-28		179618077	565.125
DSL:14-24		141036440	591.716
DSL:16-24		102758564	642.249
MO:22-32		6706572	34.221
MO:24-36		1698655	8.794
MO:28-40		35297	0.319
BUNKC:10-40		205927118	1019.086
BUNKC:12-40		179632437	916.967

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

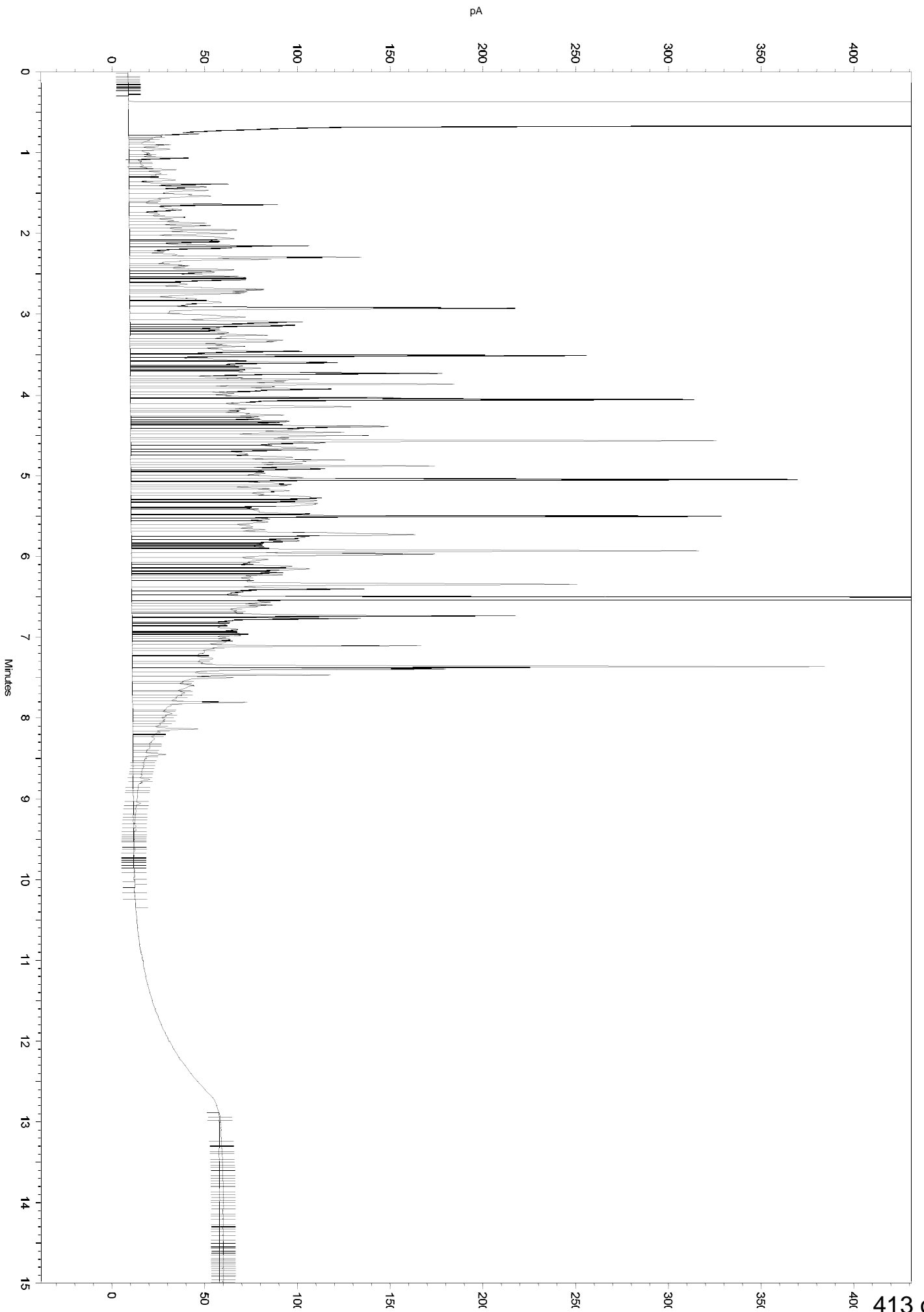
No items selected for this section

Integration Events

Enabled Event Type		Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Enabled Event Type		Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.473	6.812	0
No	Split Peak	6.55	0	0
Yes	Move BL Start	1.092	0.296	0



Sample Name: icv,s39005,dsI_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a020.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_011.met
 Run Date: 1/12/2019 12:36:13 AM
 Analysis Date: 1/14/2019 1:35:33 PM
 Instrument: GC27 (Offline)A Vial: 70 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		103324312	218.136
DSL:10-14		66997706	455.207
DSL:10-22		193814308	532.541
DSL:10-24		197314182	532.697
DSL:10-28		198293938	532.104
DSL:12-24		173282023	549.084
DSL:12-28		174261779	548.273
DSL:14-24		137518832	576.958
DSL:16-24		100451656	627.831
MO:22-32		6196625	31.619
MO:24-36		1474355	7.633
MO:28-40		32678	0.296
BUNKC:10-40		198308298	981.382
BUNKC:12-40		174276139	889.625

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

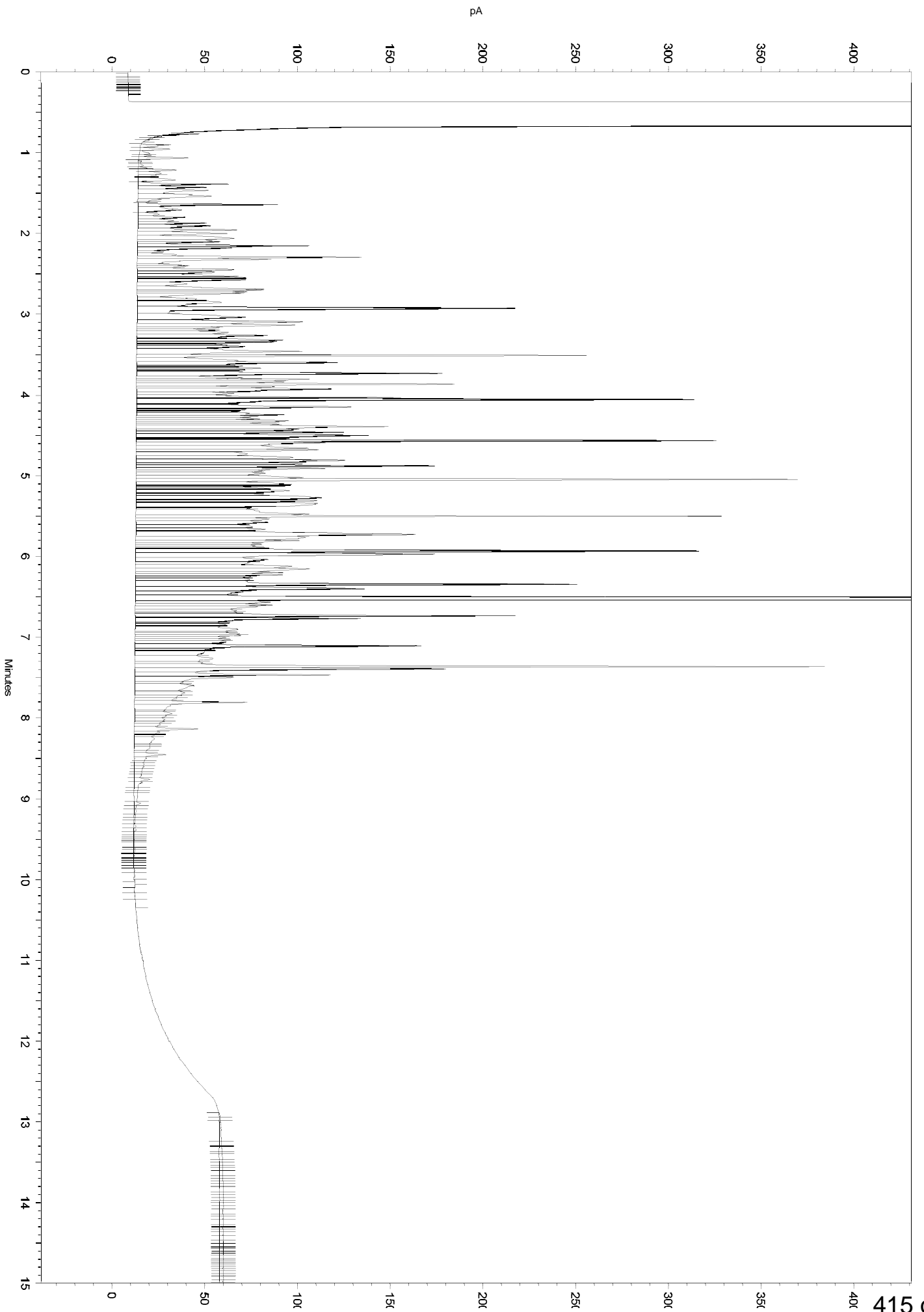
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold           0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\011a020.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Peak          6.473     6.812     0
No Split Peak           6.55      0         0
No Move BL Start        1.092     0.296     0
  
```



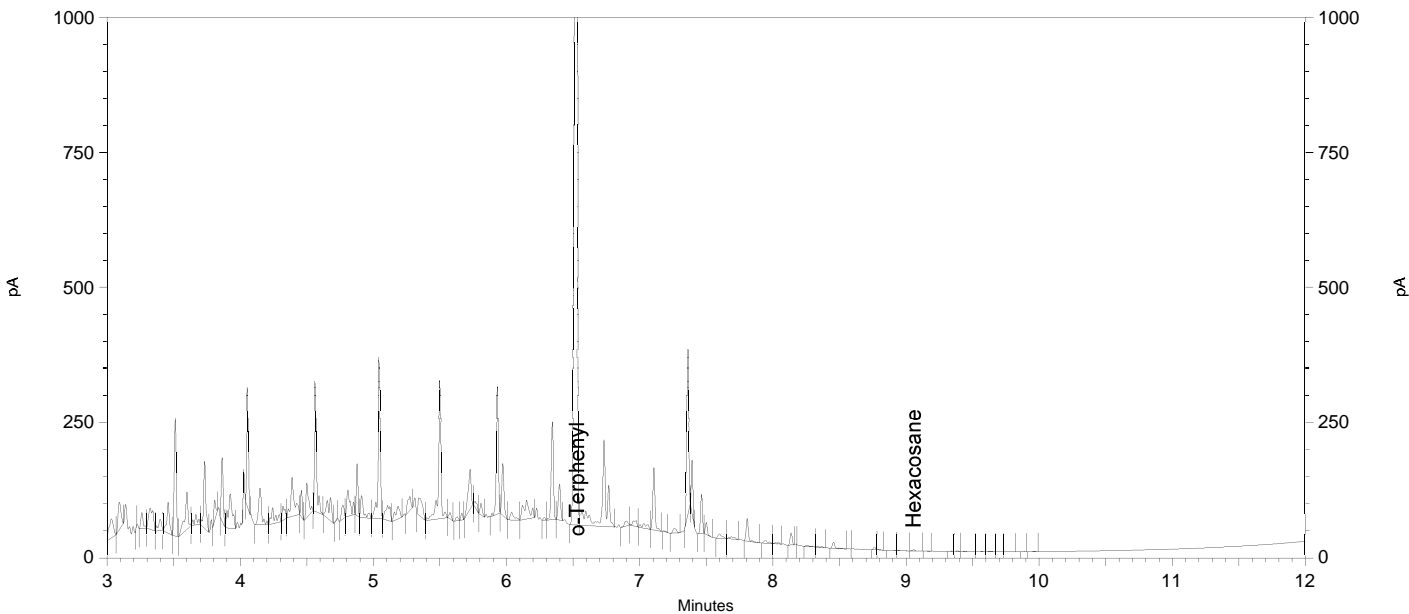
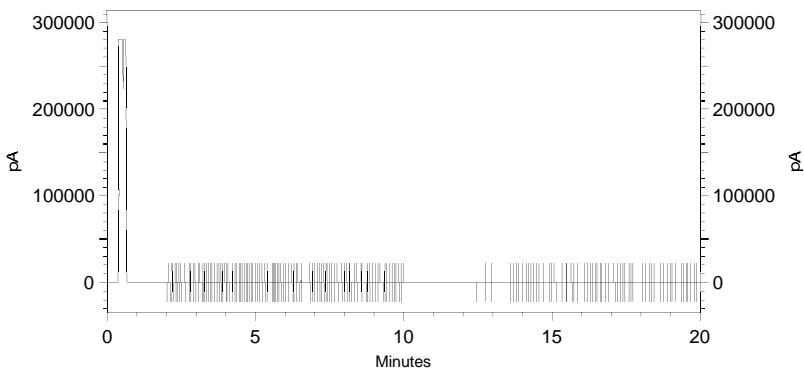
Sample Name: icv,s39005,dsl_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\020.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/12/2019 12:36:13 AM
 Analysis Date: 1/14/2019 1:35:10 PM
 Instrument: GC27 (Offline)A Vial: 70 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.528	22910817	110.367
Hexacosane	9.057	27107	0.162



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a020.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.473	6.812	0
Yes	Split Peak	6.55	0	0
No	Move BL Start	1.092	0.296	0

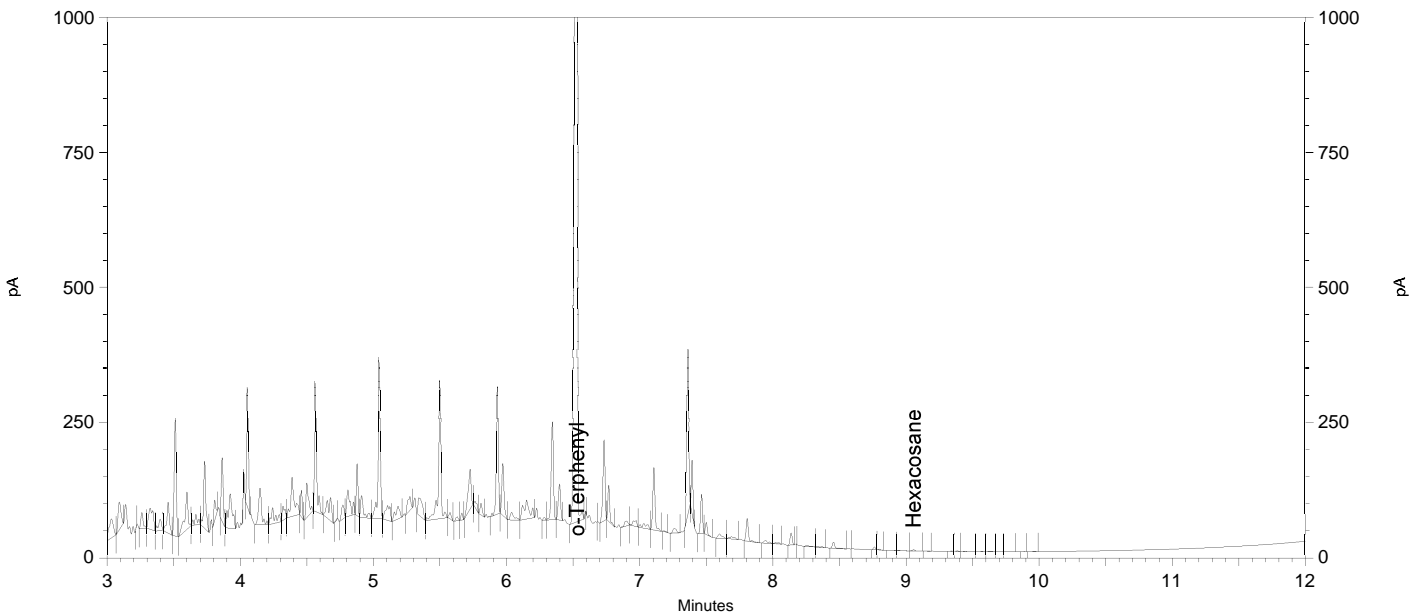
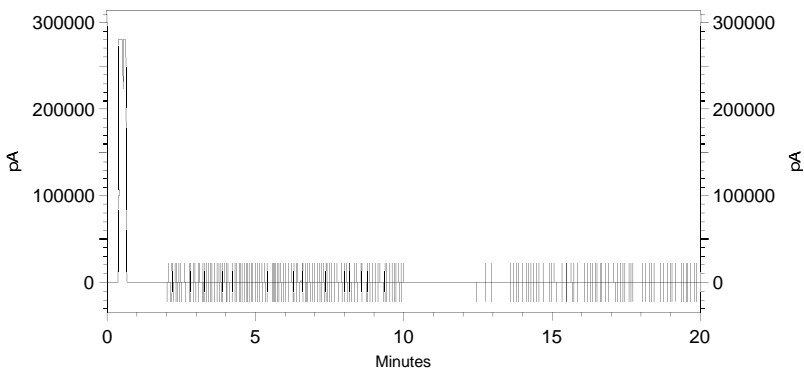
Sample Name: icv,s39005,dsl_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\011a\020.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\011.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/12/2019 12:36:13 AM
 Analysis Date: 1/14/2019 1:35:02 PM
 Instrument: GC27 (Offline)A Vial: 70 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.528	22909297	110.360
Hexacosane	9.057	27107	0.162



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\011a020.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.473	6.812	0
No	Split Peak	6.55	0	0
No	Move BL Start	1.092	0.296	0

ENTHALPY INITIAL CALIBRATION FOR 306574 GCSV Water: EPA 8015B

Inst : GC27A
 Calnum : 979020789002
 Units : mg/L

Name : MO_14a
 Date : 14-JAN-2019 23:25
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	014a032	979020789032	MO_50	14-JAN-2019 23:25	S38928
L2	014a033	979020789033	MO_250	14-JAN-2019 23:49	S38929
L3	014a034	979020789034	MO_500	15-JAN-2019 00:13	S38930
L4	014a035	979020789035	MO_1000	15-JAN-2019 00:37	S38931
L5	014a036	979020789036	MO_2500	15-JAN-2019 01:01	S38765 (2X)
L6	014a037	979020789037	MO_5000	15-JAN-2019 01:25	S38765

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	196431	227837	219234	248663	275489	272732	AVRG		4.17E-6		240064	13	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-18	250.00	-5	500.00	-9	1000.0	4	2500.0	15	5000.0	14

TKY 01/16/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY Date: 01/16/19 Reviewer: EAH Date: 01/16/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A
Calnum : 979020789002

Name : MO_14a
Cal Date : 14-JAN-2019

ICV 979020789039 (014a039 15-JAN-2019) stds: S38548

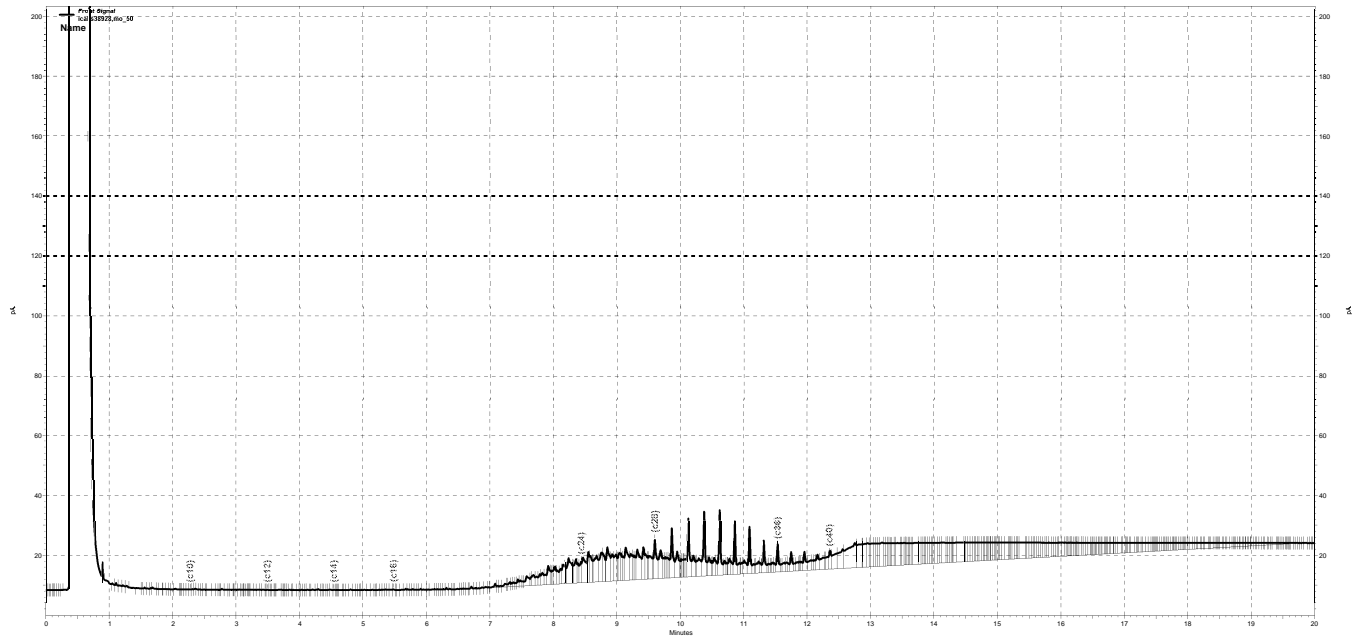
Analyte	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	500.0	492.4	mg/L	-2	15	

Analyst: TKY

Date: 01/16/19

Reviewer: EAH

Date: 01/16/19



— G:\ezchrom\Projects\GC27\Data\2019\014a032.dat, Front Signal

Sample Name: ical,s38928,mo_50
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a032.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/14/2019 11:25:16 PM
 Analysis Date: 1/16/2019 10:35:13 AM
 Instrument: GC27 (Offline)A Vial: 82 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		50845	0.000 CAL
DSL:10-14		36494	0.000 CAL
DSL:10-22		753022	0.000 CAL
DSL:10-24		2529408	0.000 CAL
DSL:10-28		6801779	0.000 CAL
DSL:12-24		2510101	0.000 CAL
DSL:12-28		6782472	0.000 CAL
DSL:14-24		2494780	0.000 CAL
DSL:16-24		2481825	0.000 CAL
MO:22-32		9512215	50.000 CAL
MO:24-36		9821560	50.000 CAL
MO:28-40		6644555	50.000 CAL
BUNKC:10-40		13107496	0.000 CAL
BUNKC:12-40		13088189	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

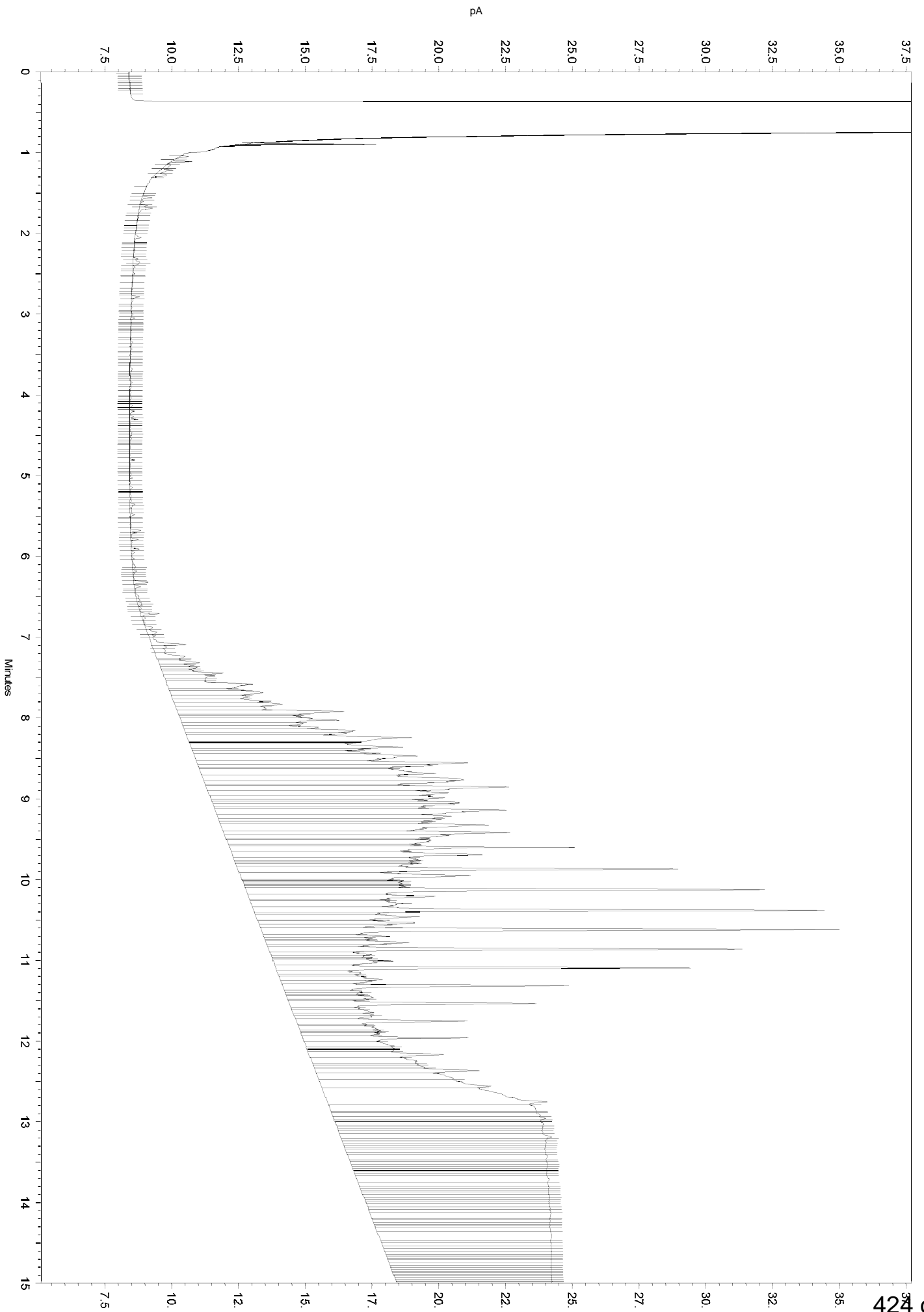
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0       0
Yes Threshold            0       0      10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\014a032.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        16.467  19.826   0
  
```



Sample Name: ical,s38928,mo_50
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a032.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/14/2019 11:25:16 PM
 Analysis Date: 1/15/2019 12:36:51 PM
 Instrument: GC27A Vial: 82 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		50845	0.000 CAL
DSL:10-14		36494	0.000 CAL
DSL:10-22		655153	0.000 CAL
DSL:10-24		2256473	0.000 CAL
DSL:10-28		6046021	0.000 CAL
DSL:12-24		2237166	0.000 CAL
DSL:12-28		6026714	0.000 CAL
DSL:14-24		2221845	0.000 CAL
DSL:16-24		2208890	0.000 CAL
MO:22-32		8175042	50.000 CAL
MO:24-36		7871339	50.000 CAL
MO:28-40		4401840	50.000 CAL
BUNKC:10-40		10155846	0.000 CAL
BUNKC:12-40		10136539	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

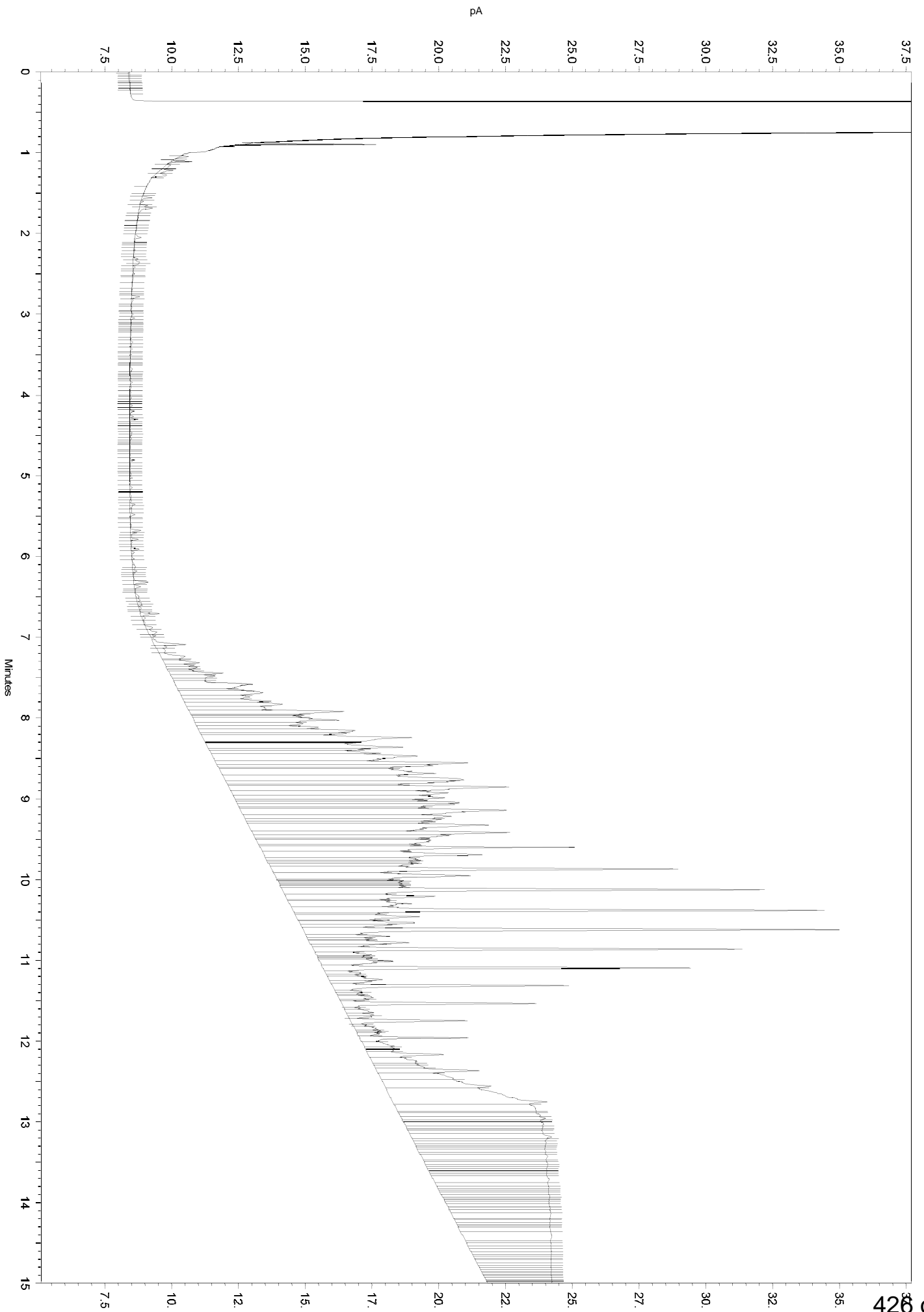
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\014a032.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

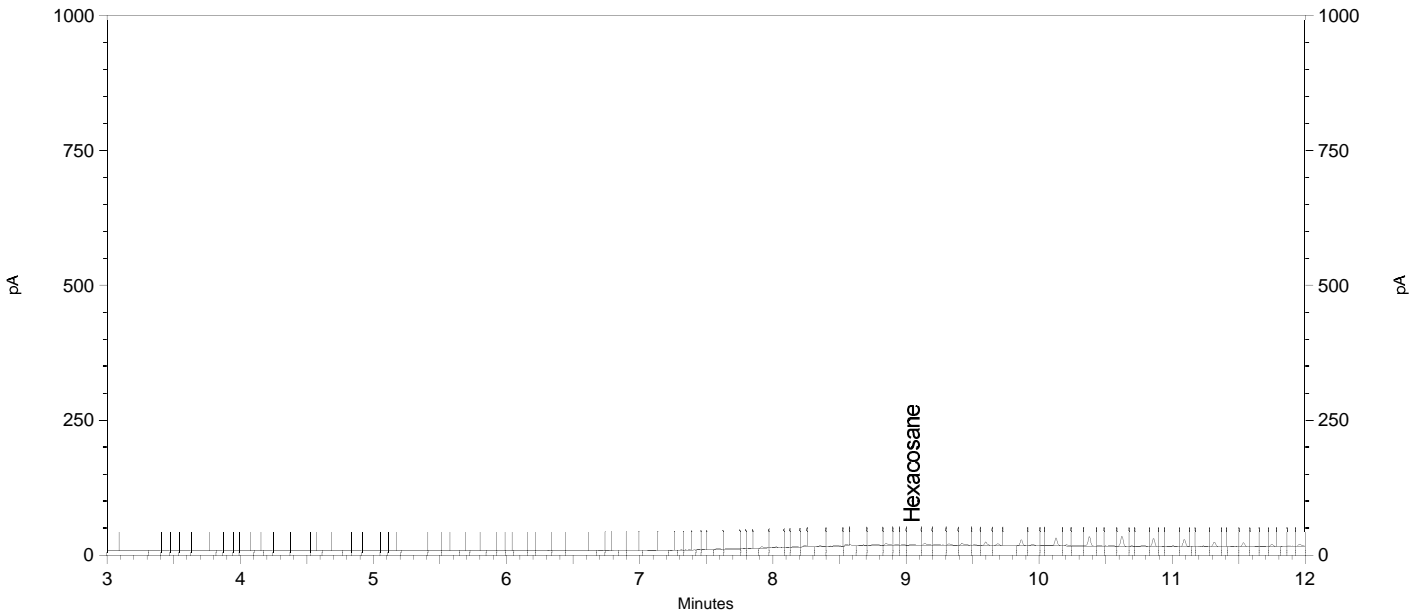
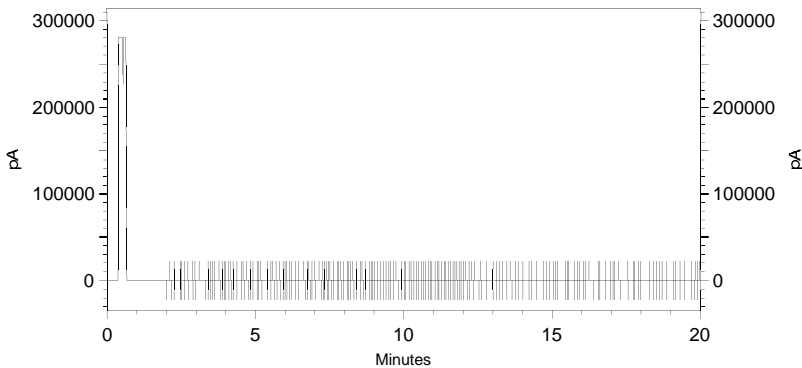
Sample Name: ical,s38928,mo_50
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a032.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_014.met
 Run Date: 1/14/2019 11:25:16 PM
 Analysis Date: 1/15/2019 12:56:35 PM
 Instrument: GC27 (Offline)A Vial: 82 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	9.045	41406	0.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a032.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	16.467	19.826	0

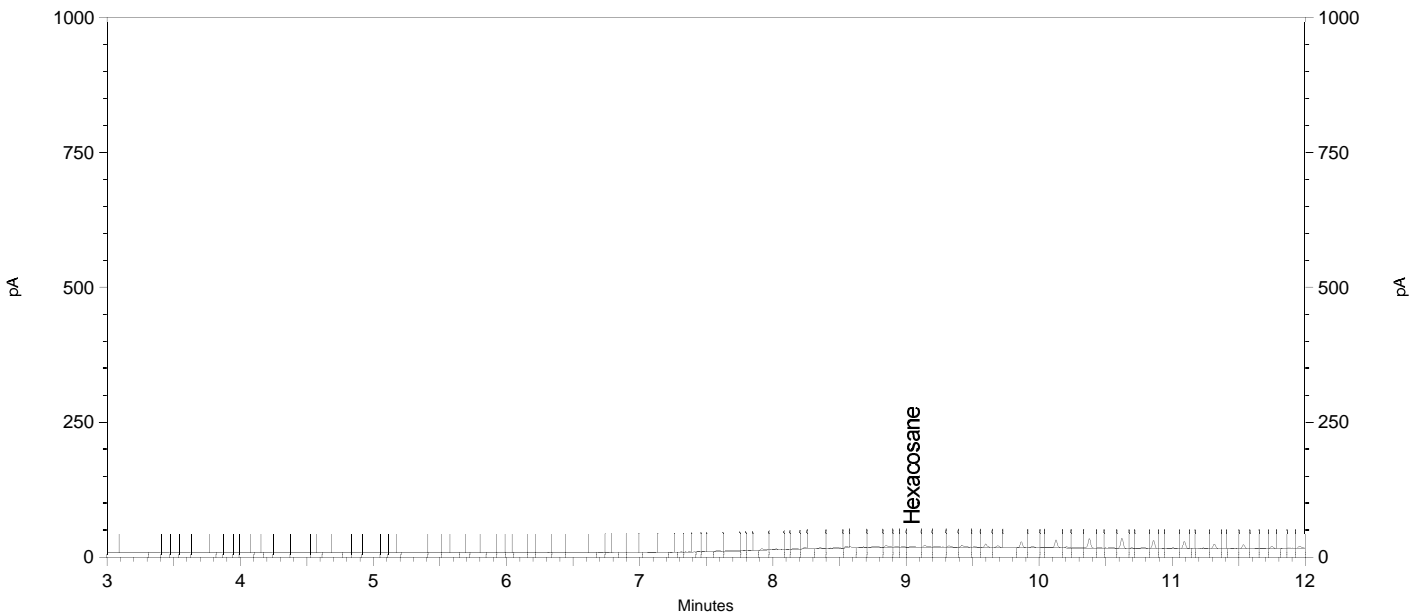
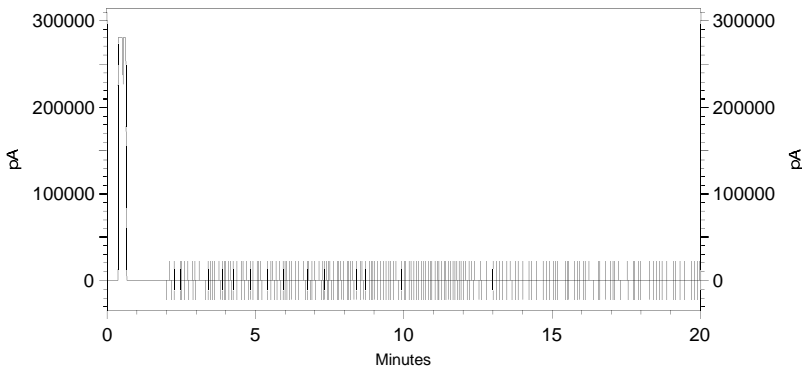
Sample Name: **ib,calib**
 Data File: **G:\ezchrom\Projects\GC27\Data\2019\014a032.dat**
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2019\014.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\SURRO_014.met**
 Run Date: **1/14/2019 11:25:16 PM**
 Analysis Date: **1/15/2019 12:19:13 PM**
 Instrument: **GC27A Vial: 82 Operator: teh4**
 Sample Amount: **1**

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	9.045	41406	0.120



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events
 =====

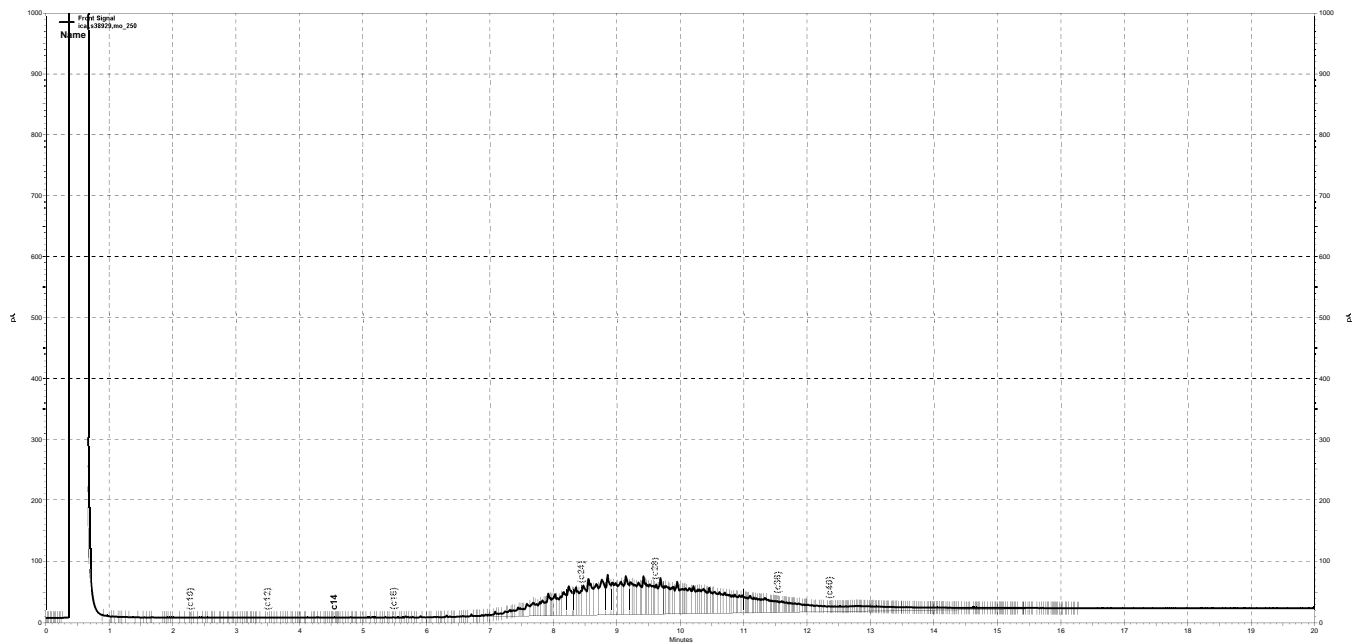
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a032.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— G:\ezchrom\Projects\GC27\Data\2019\014a033.dat, Front Signal

Sample Name: ical,s38929,mo_250
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a033.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/14/2019 11:49:30 PM
 Analysis Date: 1/16/2019 10:35:17 AM
 Instrument: GC27 (Offline)A Vial: 83 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		127273	0.000 CAL
DSL:10-14		63494	0.000 CAL
DSL:10-22		5288978	0.000 CAL
DSL:10-24		15726862	0.000 CAL
DSL:10-28		41136548	0.000 CAL
DSL:12-24		15700778	0.000 CAL
DSL:12-28		41110464	0.000 CAL
DSL:14-24		15668806	0.000 CAL
DSL:16-24		15612570	0.000 CAL
MO:22-32		55712207	250.000 CAL
MO:24-36		56959281	250.000 CAL
MO:28-40		34959518	250.000 CAL
BUNKC:10-40		73991108	0.000 CAL
BUNKC:12-40		73965024	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

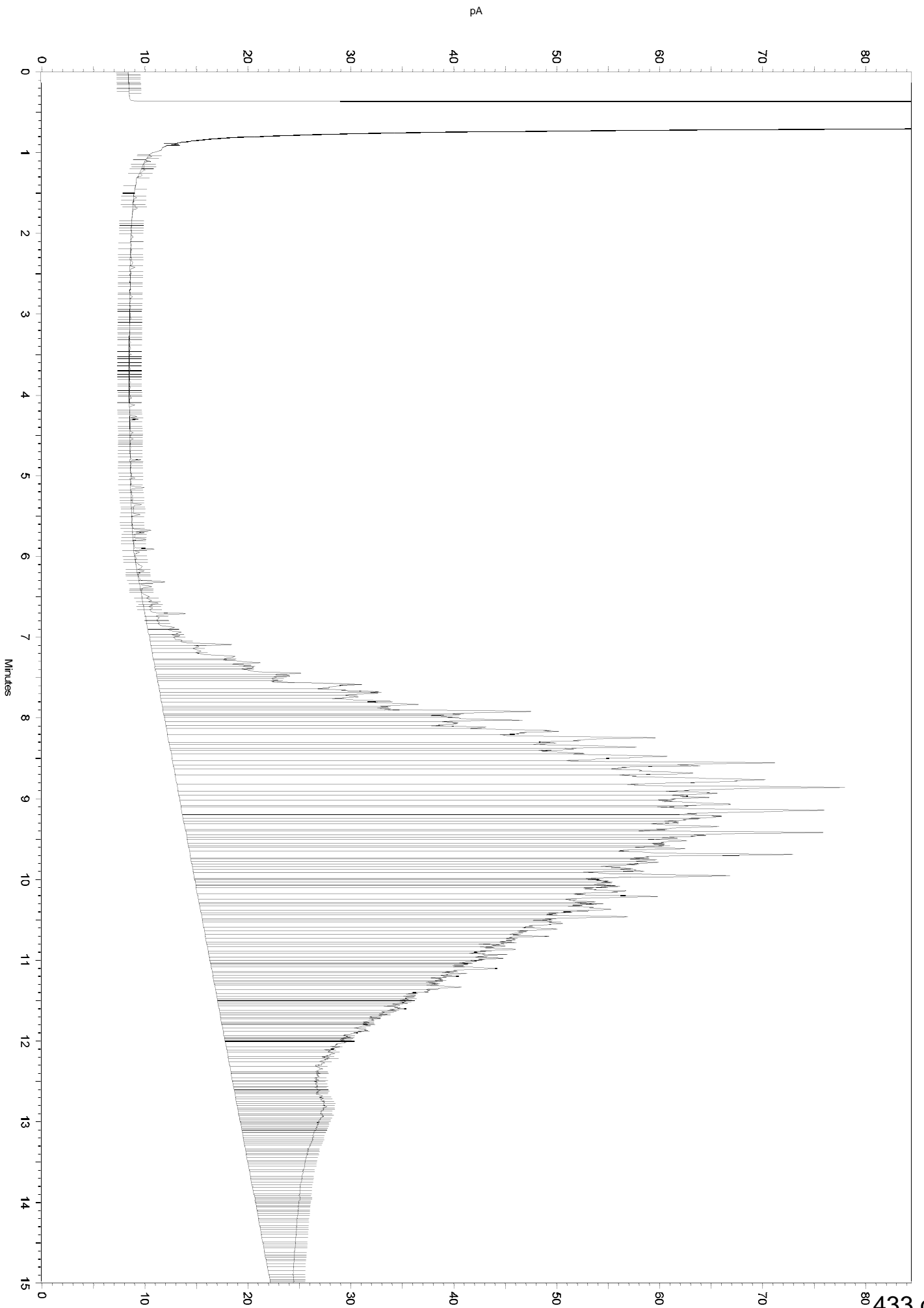
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold           0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\014a033.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop       20    16.274    0
  
```



Sample Name: ical,s38929,mo_250
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a033.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/14/2019 11:49:30 PM
 Analysis Date: 1/15/2019 12:37:15 PM
 Instrument: GC27A Vial: 83 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		127273	0.000 CAL
DSL:10-14		63494	0.000 CAL
DSL:10-22		5617610	0.000 CAL
DSL:10-24		16324135	0.000 CAL
DSL:10-28		42384221	0.000 CAL
DSL:12-24		16298051	0.000 CAL
DSL:12-28		42358137	0.000 CAL
DSL:14-24		16266079	0.000 CAL
DSL:16-24		16209843	0.000 CAL
MO:22-32		57478954	250.000 CAL
MO:24-36		59383597	250.000 CAL
MO:28-40		37616196	250.000 CAL
BUNKC:10-40		77827046	0.000 CAL
BUNKC:12-40		77800962	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

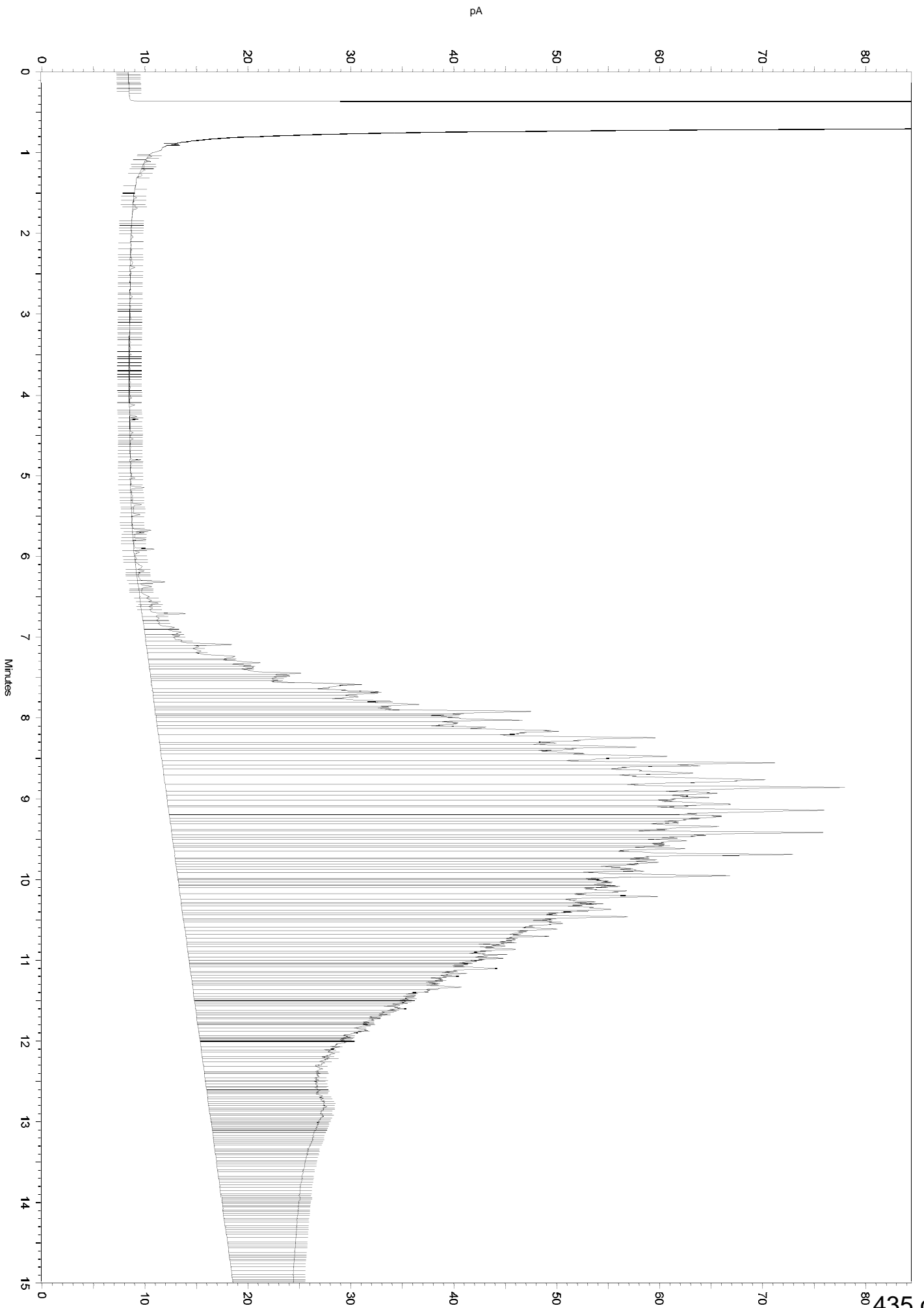
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a033.dat

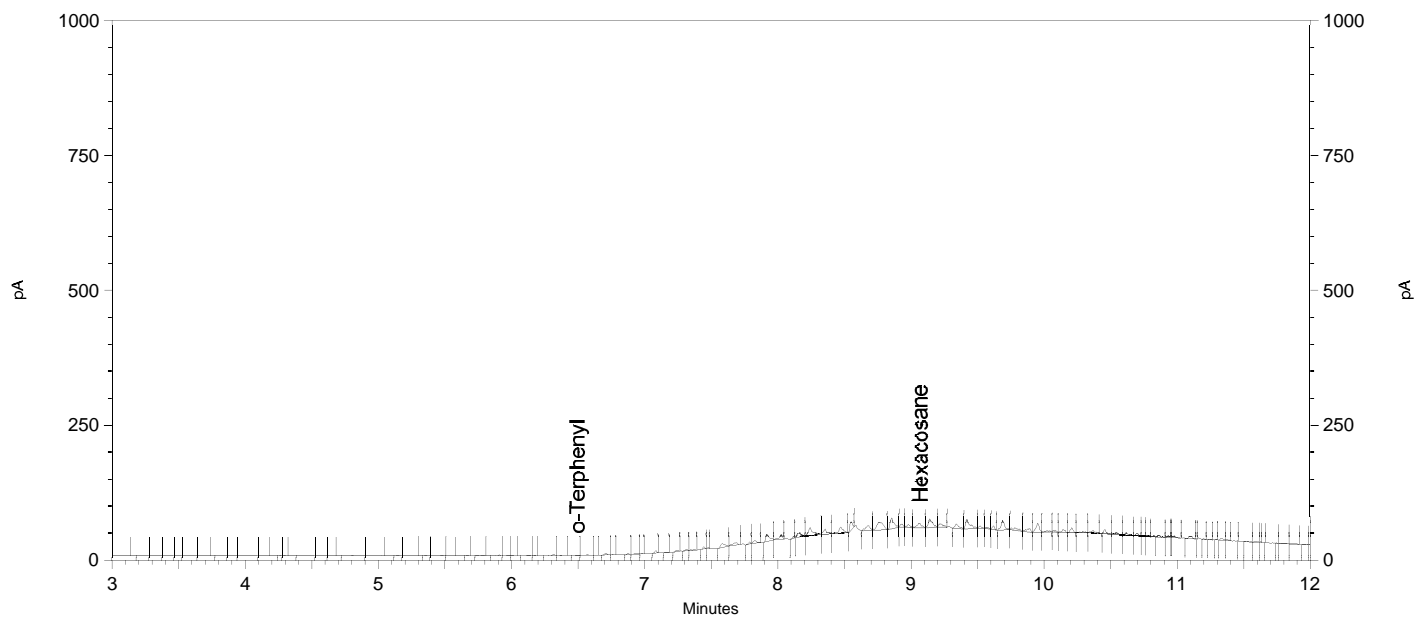
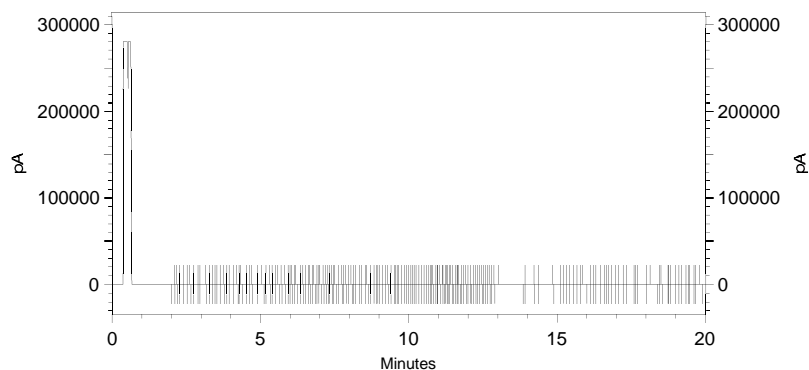
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



Sample Name: ical,s38928,mo_50
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a033.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/14/2019 11:49:30 PM
 Analysis Date: 1/15/2019 12:09:32 AM
 Instrument: GC27A Vial: 83 Operator: teh4
 Sample Amount: 1

GC27a
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.498	5447	0.013
Hexacosane	9.068	142466	0.412



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\014a033.dat_A5B6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None				

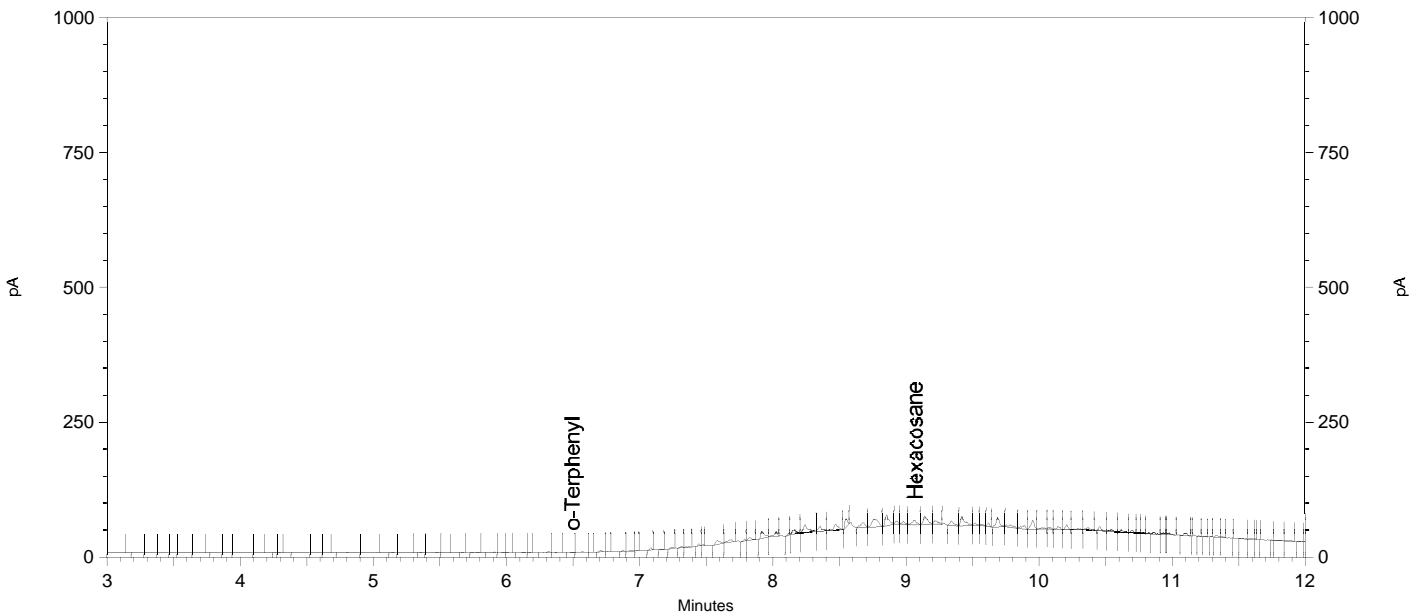
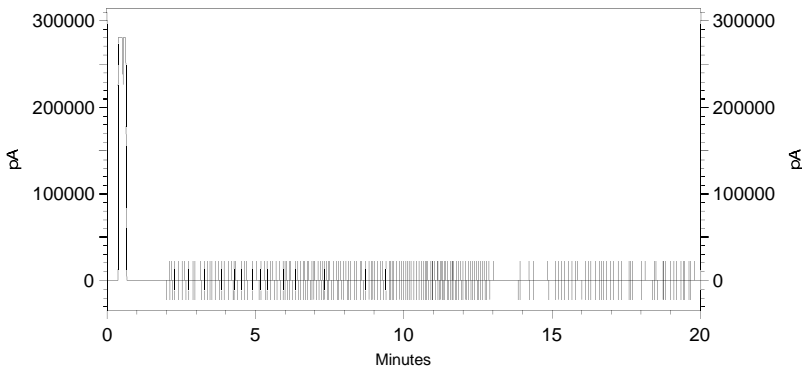
Sample Name: ical,s38929,mo_250
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a033.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_014.met
 Run Date: 1/14/2019 11:49:30 PM
 Analysis Date: 1/15/2019 12:56:38 PM
 Instrument: GC27 (Offline)A Vial: 83 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.498	5447	0.000 CAL
Hexacosane	9.068	142466	0.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

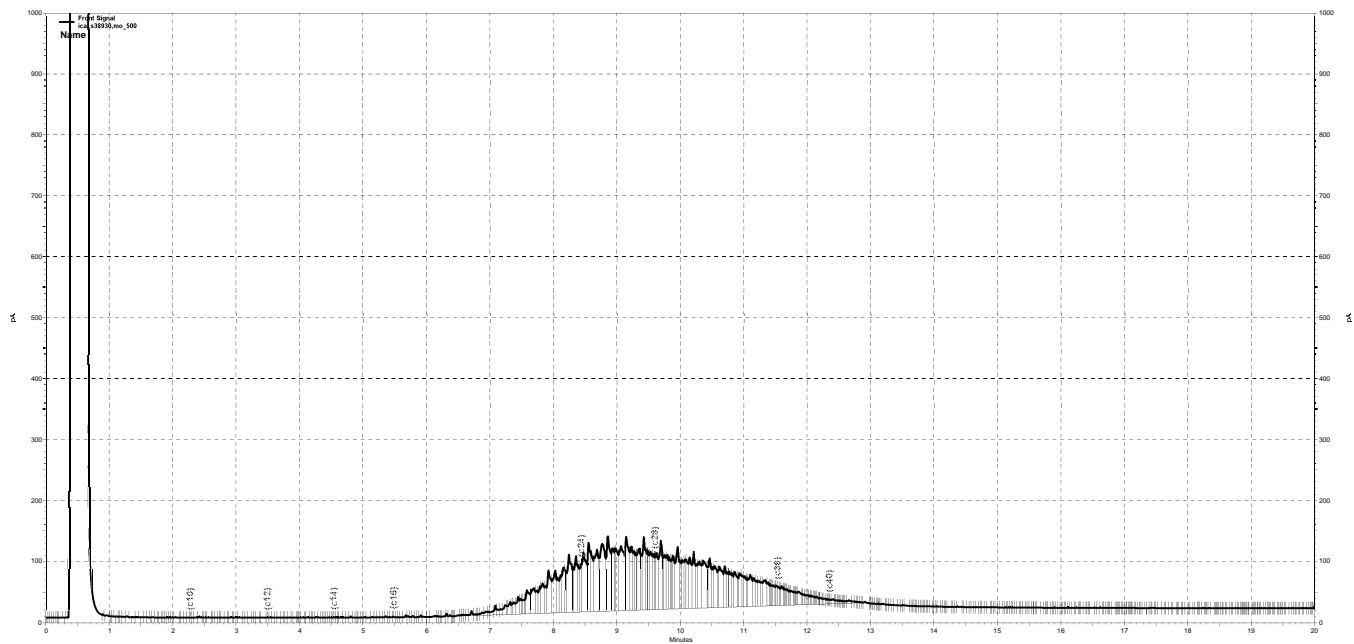
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a033.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	20	16.274	0



— G:\ezchrom\Projects\GC27\Data\2019\014a034.dat, Front Signal

Sample Name: ical,s38930,mo_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a034.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/15/2019 12:13:37 AM
 Analysis Date: 1/16/2019 10:35:21 AM
 Instrument: GC27 (Offline)A Vial: 84 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		240690	0.000 CAL
DSL:10-14		125913	0.000 CAL
DSL:10-22		10139304	0.000 CAL
DSL:10-24		31152685	0.000 CAL
DSL:10-28		80705214	0.000 CAL
DSL:12-24		31094664	0.000 CAL
DSL:12-28		80647193	0.000 CAL
DSL:14-24		31037495	0.000 CAL
DSL:16-24		30936892	0.000 CAL
MO:22-32		108880137	500.000 CAL
MO:24-36		109616964	500.000 CAL
MO:28-40		65742343	500.000 CAL
BUNKC:10-40		140689742	0.000 CAL
BUNKC:12-40		140631721	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

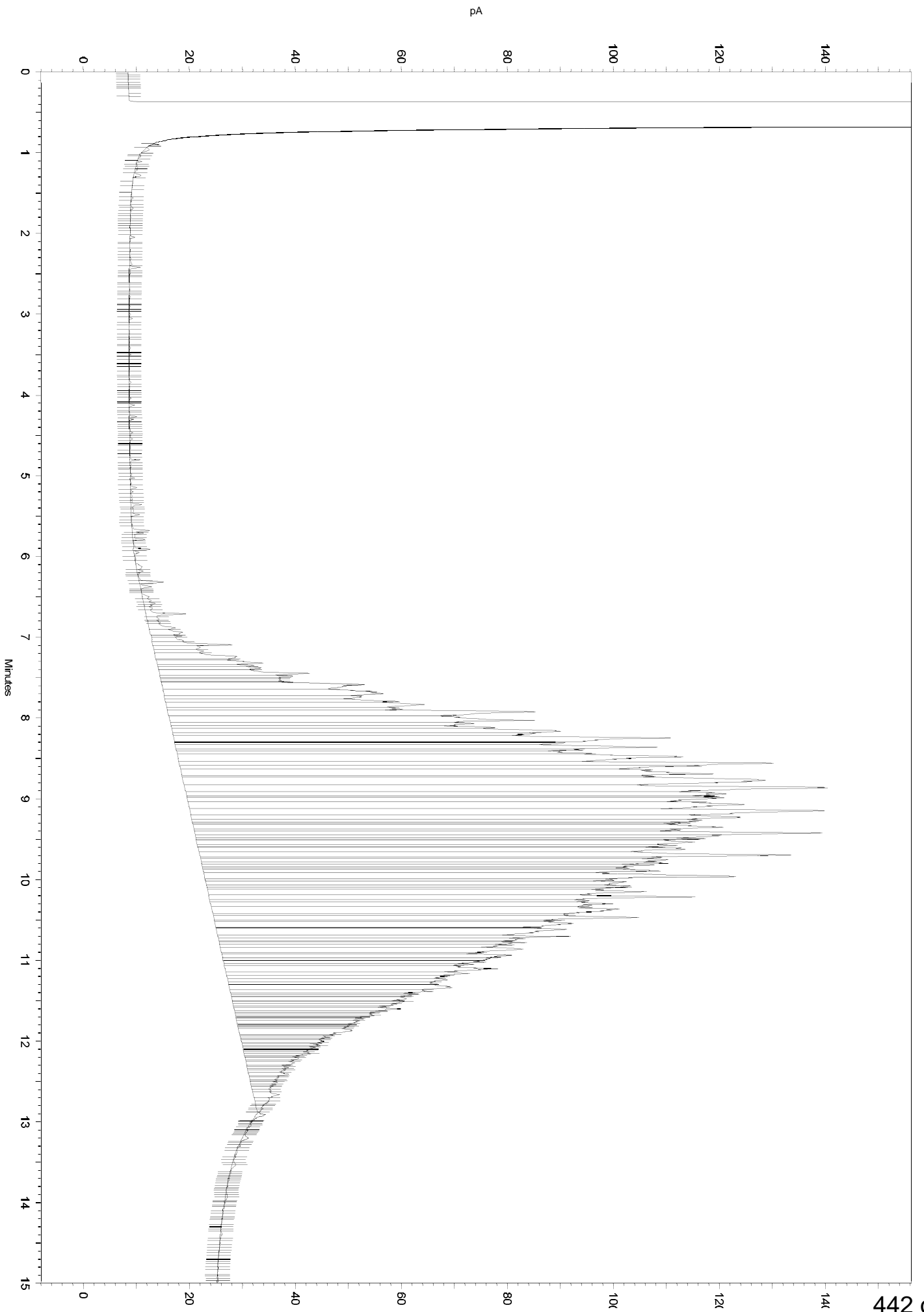
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\014a034.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Reset Baseline      12.88   0     0
  
```

Sample Name: ical,s38930,mo_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a034.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/15/2019 12:13:37 AM
 Analysis Date: 1/15/2019 12:37:32 PM
 Instrument: GC27A Vial: 84 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		240690	0.000 CAL
DSL:10-14		125913	0.000 CAL
DSL:10-22		11716448	0.000 CAL
DSL:10-24		34121365	0.000 CAL
DSL:10-28		86976821	0.000 CAL
DSL:12-24		34063344	0.000 CAL
DSL:12-28		86918800	0.000 CAL
DSL:14-24		34006175	0.000 CAL
DSL:16-24		33905572	0.000 CAL
MO:22-32		117903964	500.000 CAL
MO:24-36		122032764	500.000 CAL
MO:28-40		79661785	500.000 CAL
BUNKC:10-40		160396054	0.000 CAL
BUNKC:12-40		160338033	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

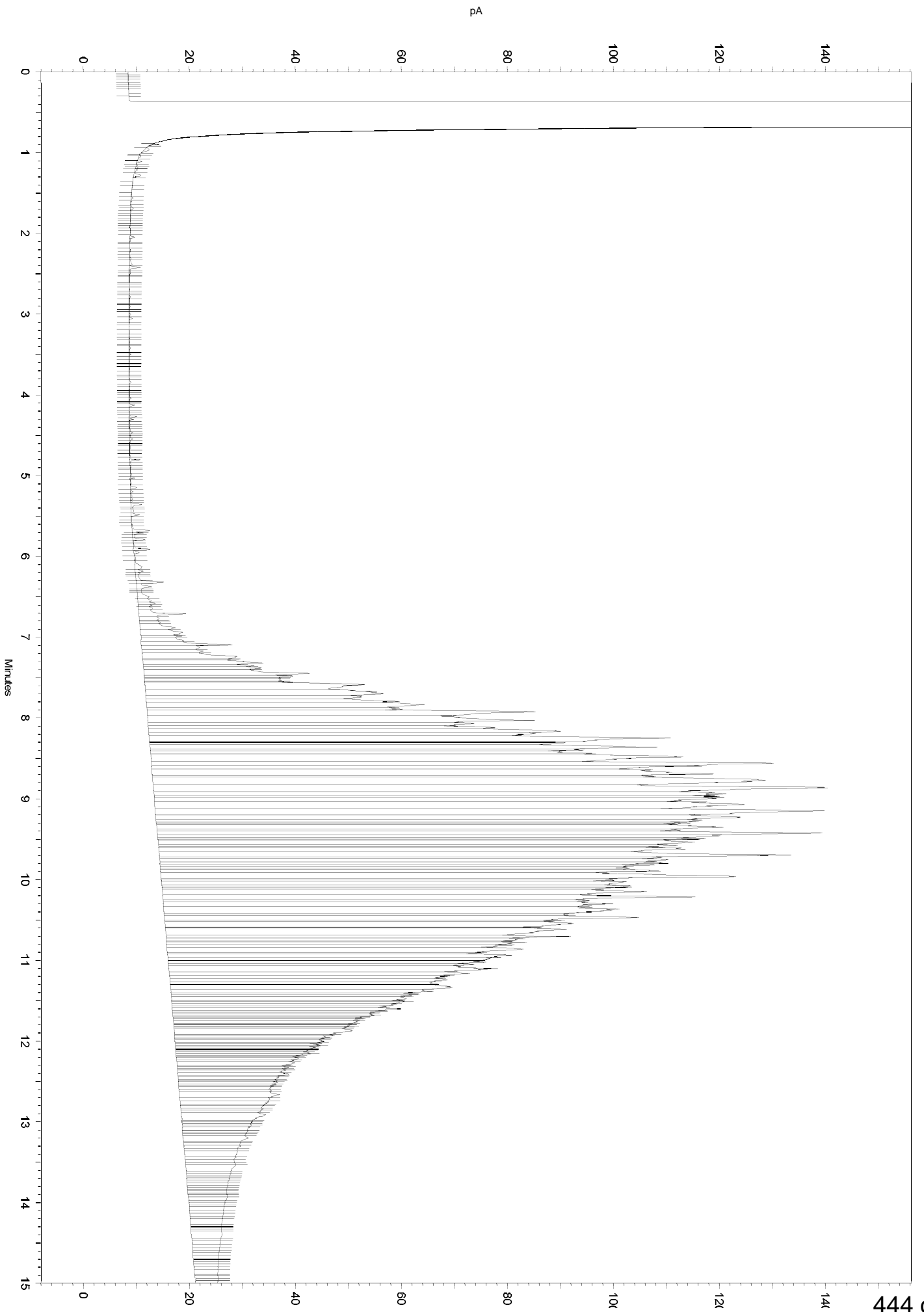
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\014a034.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



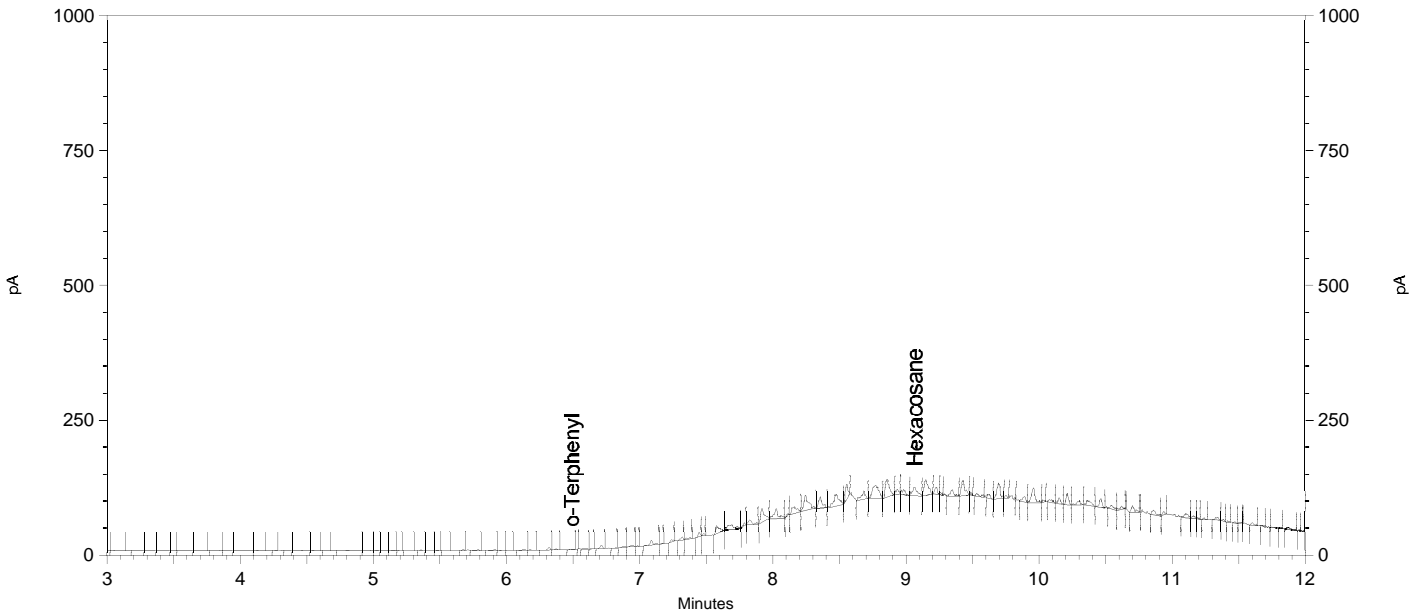
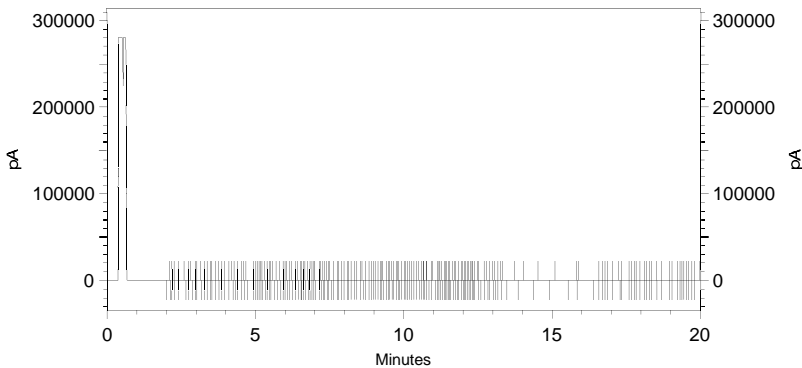
Sample Name: ical,s38929,mo_250
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a034.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/15/2019 12:13:37 AM
 Analysis Date: 1/15/2019 12:33:37 AM
 Instrument: GC27A Vial: 84 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.495	9339	0.022
Hexacosane	9.068	339868	0.984



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\014a034.dat_A5B7.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

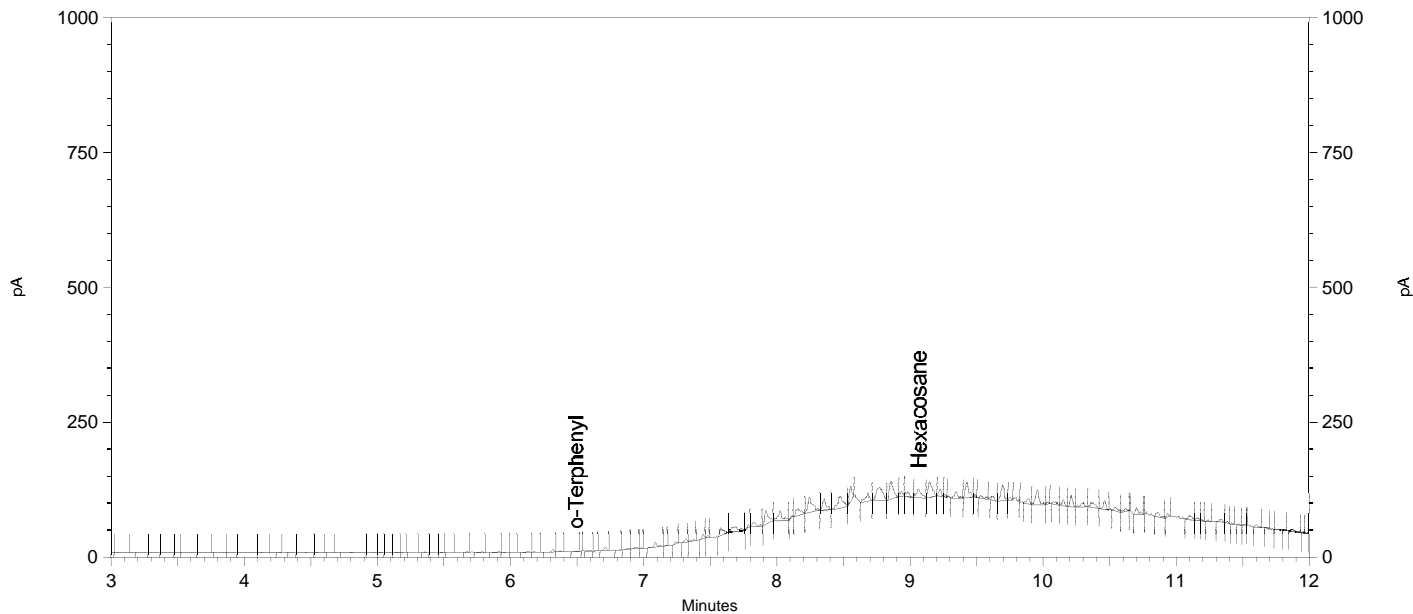
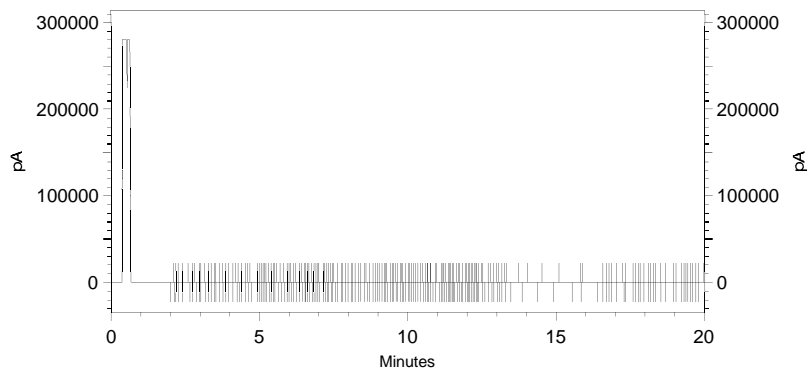
Sample Name: ical,s38930,mo_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a034.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_014.met
 Run Date: 1/15/2019 12:13:37 AM
 Analysis Date: 1/15/2019 12:56:40 PM
 Instrument: GC27 (Offline)A Vial: 84 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.495	9339	0.000 CAL
Hexacosane	9.068	339868	0.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

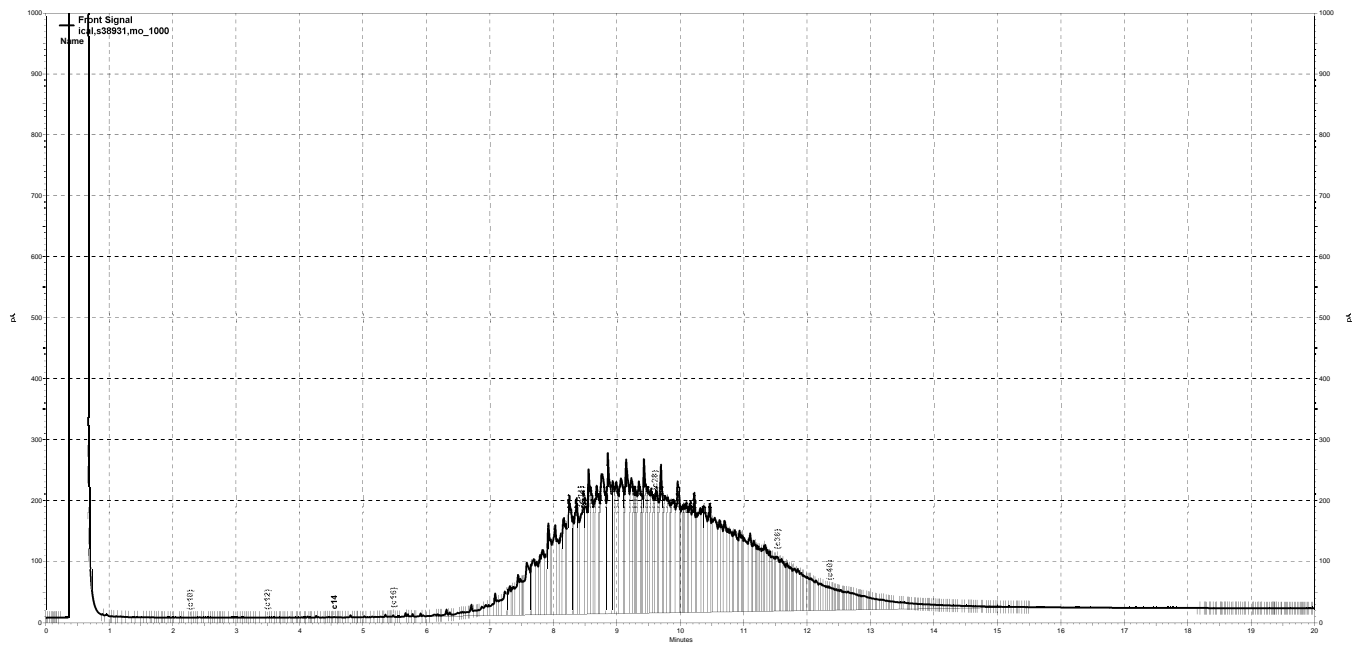
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a034.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline	12.88	0	0



— G:\ezchrom\Projects\GC27\Data\2019\014a035.dat, Front Signal

Sample Name: ical,s38931,mo_1000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a035.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/15/2019 12:37:39 AM
 Analysis Date: 1/16/2019 10:35:25 AM
 Instrument: GC27 (Offline)A Vial: 85 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		360436	0.000 CAL
DSL:10-14		162513	0.000 CAL
DSL:10-22		25143119	0.000 CAL
DSL:10-24		70073971	0.000 CAL
DSL:10-28		175541343	0.000 CAL
DSL:12-24		70020001	0.000 CAL
DSL:12-28		175487373	0.000 CAL
DSL:14-24		69928195	0.000 CAL
DSL:16-24		69756280	0.000 CAL
MO:22-32		239892817	1000.000 CAL
MO:24-36		248662552	1000.000 CAL
MO:28-40		159370962	1000.000 CAL
BUNKC:10-40		322575222	0.000 CAL
BUNKC:12-40		322521252	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

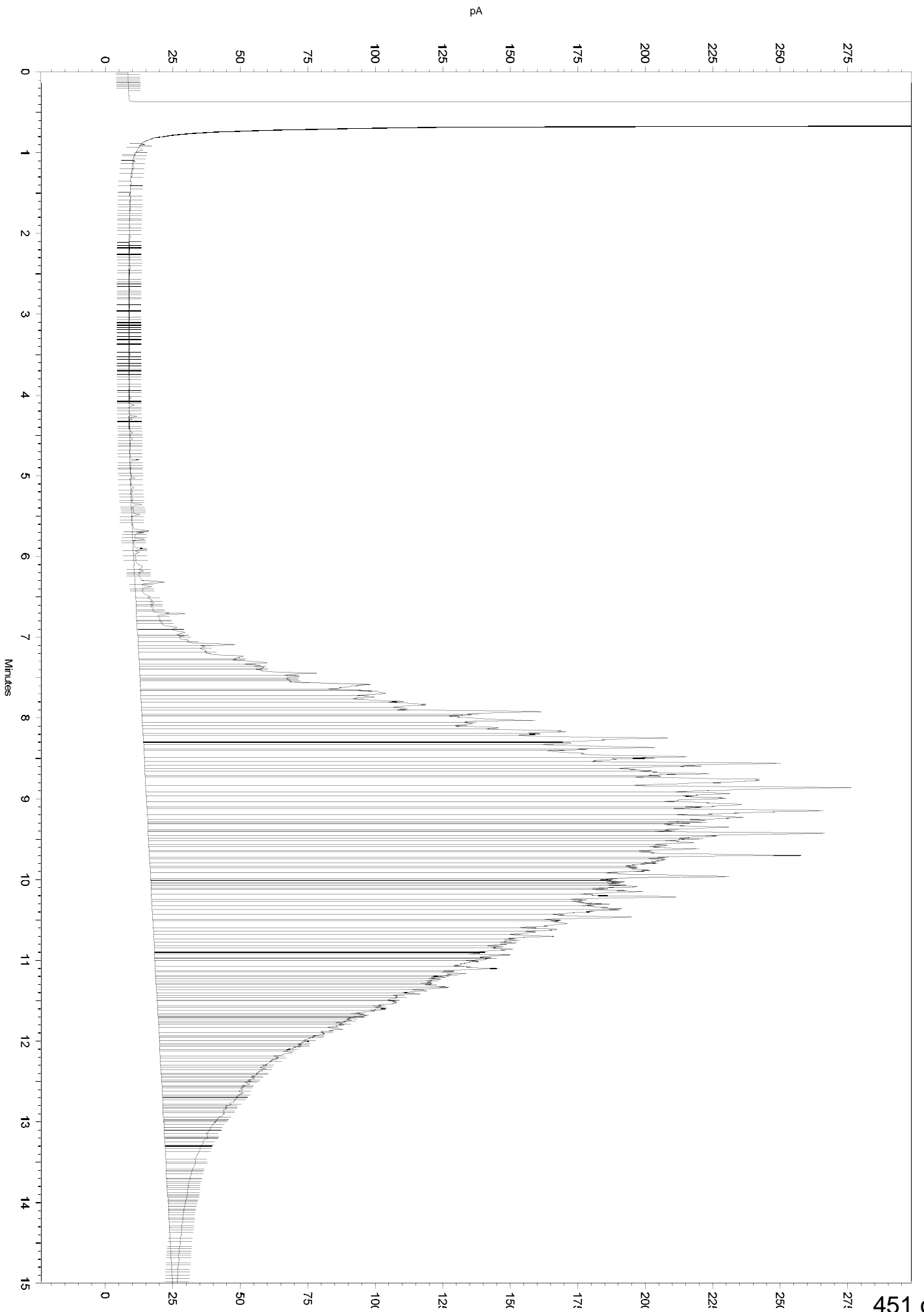
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a035.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	18.143	15.508	0



Sample Name: ical,s38931,mo_1000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a035.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/15/2019 12:37:39 AM
 Analysis Date: 1/15/2019 3:43:23 PM
 Instrument: GC27 (Offline)A Vial: 85 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		360436	0.000 CAL
DSL:10-14		162513	0.000 CAL
DSL:10-22		25686837	0.000 CAL
DSL:10-24		70982691	0.000 CAL
DSL:10-28		177271204	0.000 CAL
DSL:12-24		70928721	0.000 CAL
DSL:12-28		177217234	0.000 CAL
DSL:14-24		70836915	0.000 CAL
DSL:16-24		70665000	0.000 CAL
MO:22-32		242182663	1000.000 CAL
MO:24-36		251667211	1000.000 CAL
MO:28-40		162641693	1000.000 CAL
BUNKC:10-40		327459182	0.000 CAL
BUNKC:12-40		327405212	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

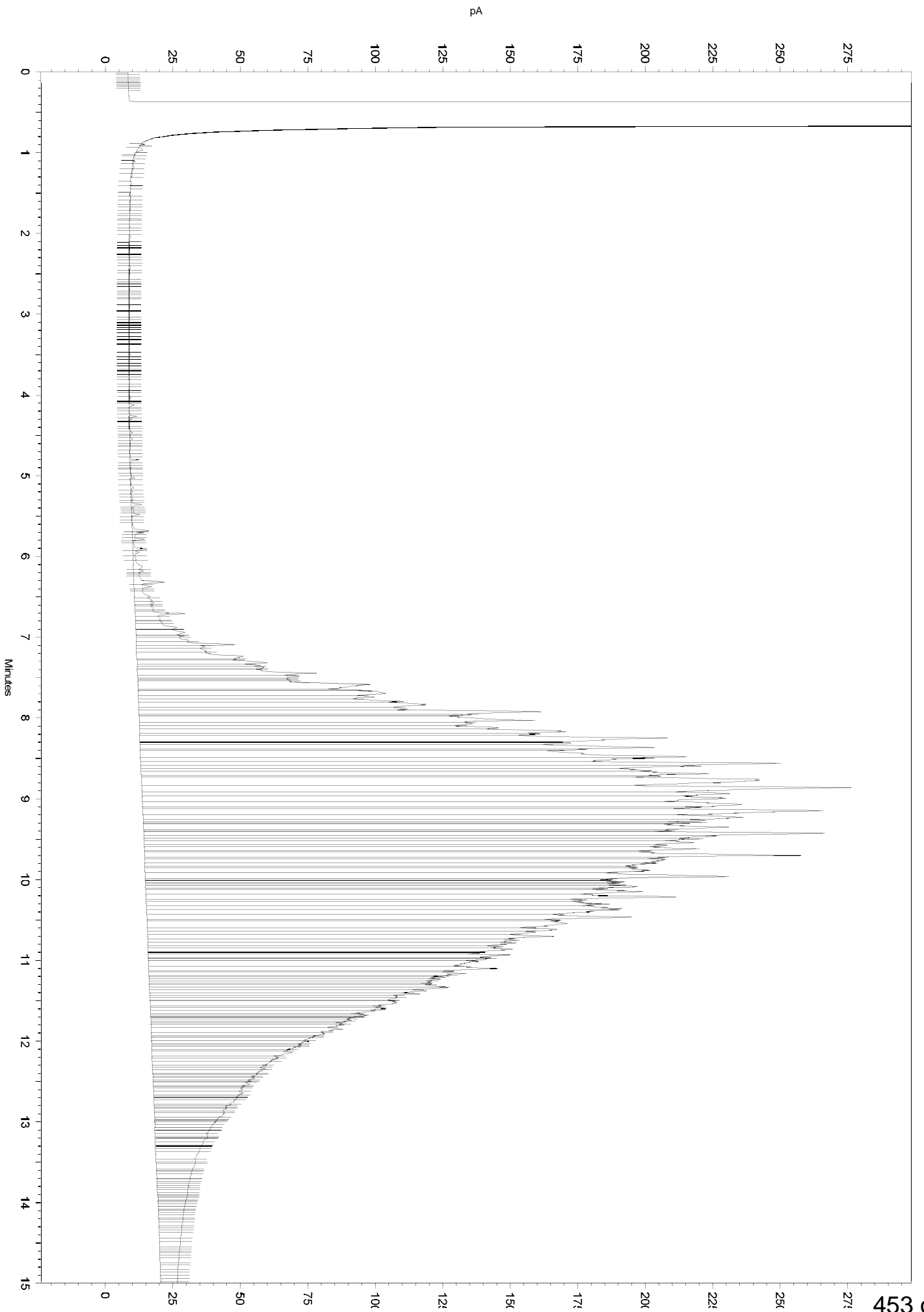
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold           0          0     10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\014a035.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Reset Baseline      12.617      0      0
  
```



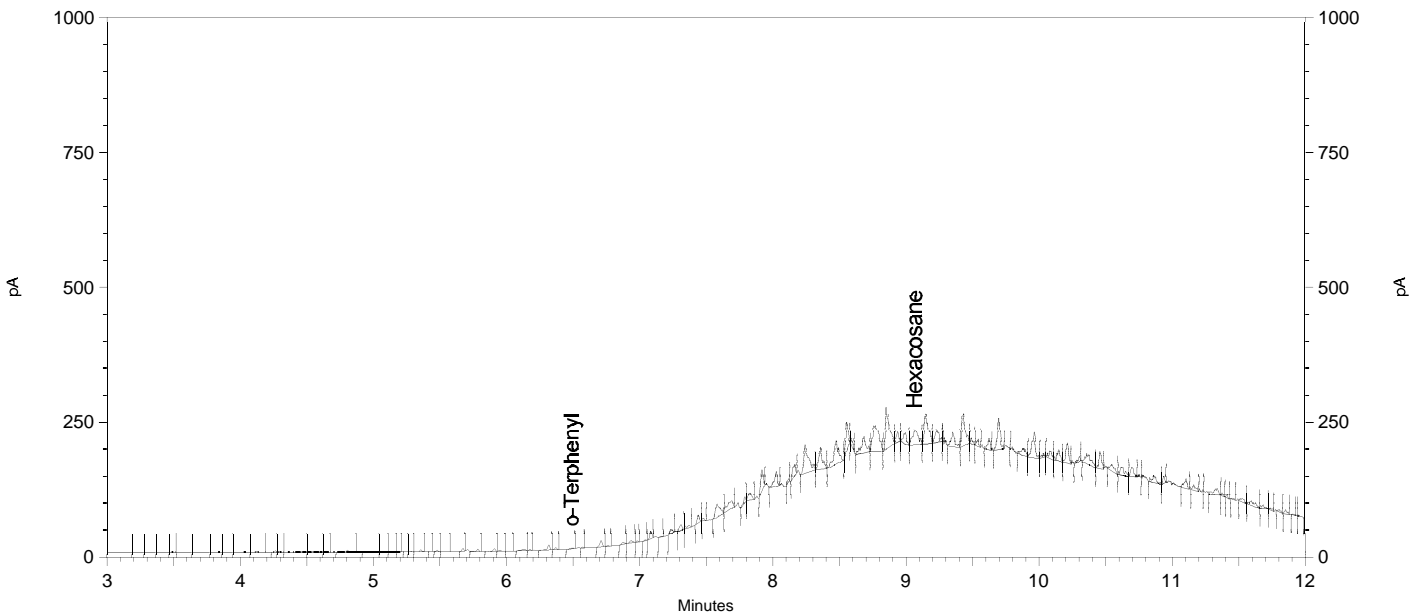
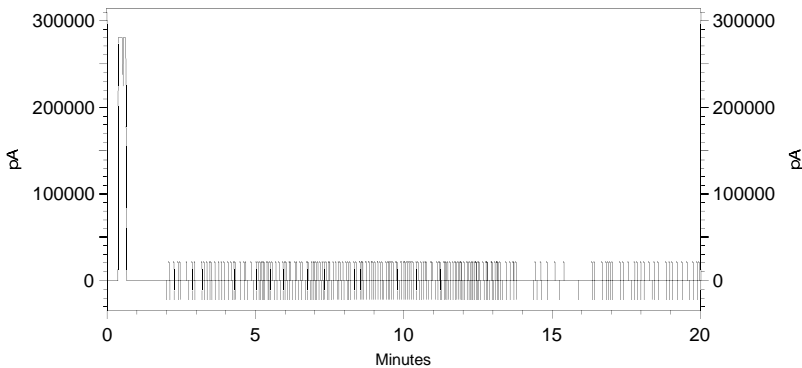
Sample Name: ical,s38930,mo_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a035.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/15/2019 12:37:39 AM
 Analysis Date: 1/15/2019 12:57:42 AM
 Instrument: GC27A Vial: 85 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.493	20123	0.047
Hexacosane	9.067	640875	1.855



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\014a035.dat_A5B8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

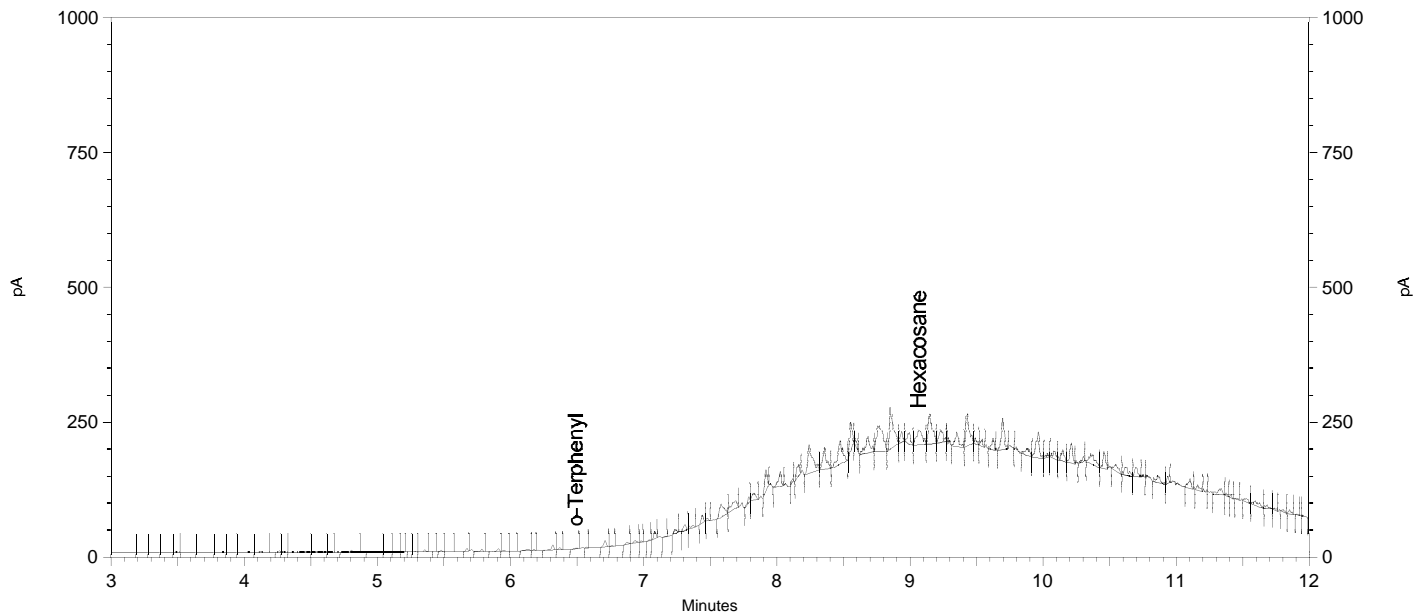
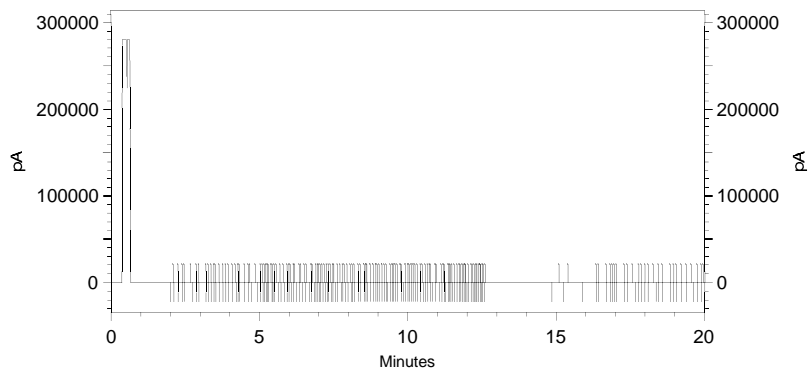
Sample Name: ical,s38931,mo_1000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a035.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_014.met
 Run Date: 1/15/2019 12:37:39 AM
 Analysis Date: 1/15/2019 12:56:43 PM
 Instrument: GC27 (Offline)A Vial: 85 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.493	20123	0.000 CAL
Hexacosane	9.067	640875	0.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

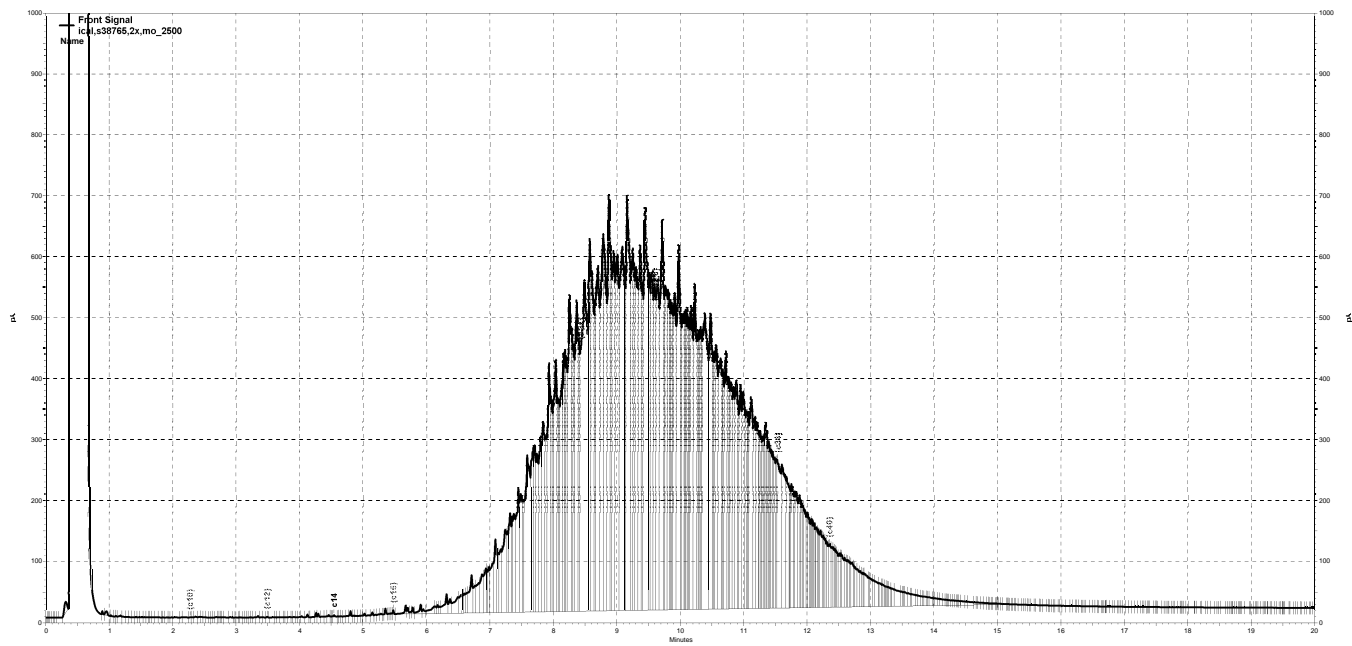
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a035.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline	12.617	0	0



— G:\ezchrom\Projects\GC27\Data\2019\014a036.dat, Front Signal

Sample Name: ical,s38765,2x,mo_2500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a036.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/15/2019 1:01:47 AM
 Analysis Date: 1/16/2019 10:35:28 AM
 Instrument: GC27 (Offline)A Vial: 86 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		923990	0.000 CAL
DSL:10-14		457528	0.000 CAL
DSL:10-22		85929702	0.000 CAL
DSL:10-24		212838398	0.000 CAL
DSL:10-28		500257212	0.000 CAL
DSL:12-24		212679433	0.000 CAL
DSL:12-28		500098247	0.000 CAL
DSL:14-24		212419267	0.000 CAL
DSL:16-24		212003388	0.000 CAL
MO:22-32		652065805	2500.000 CAL
MO:24-36		688723185	2500.000 CAL
MO:28-40		441648208	2500.000 CAL
BUNKC:10-40		907847804	0.000 CAL
BUNKC:12-40		907688839	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

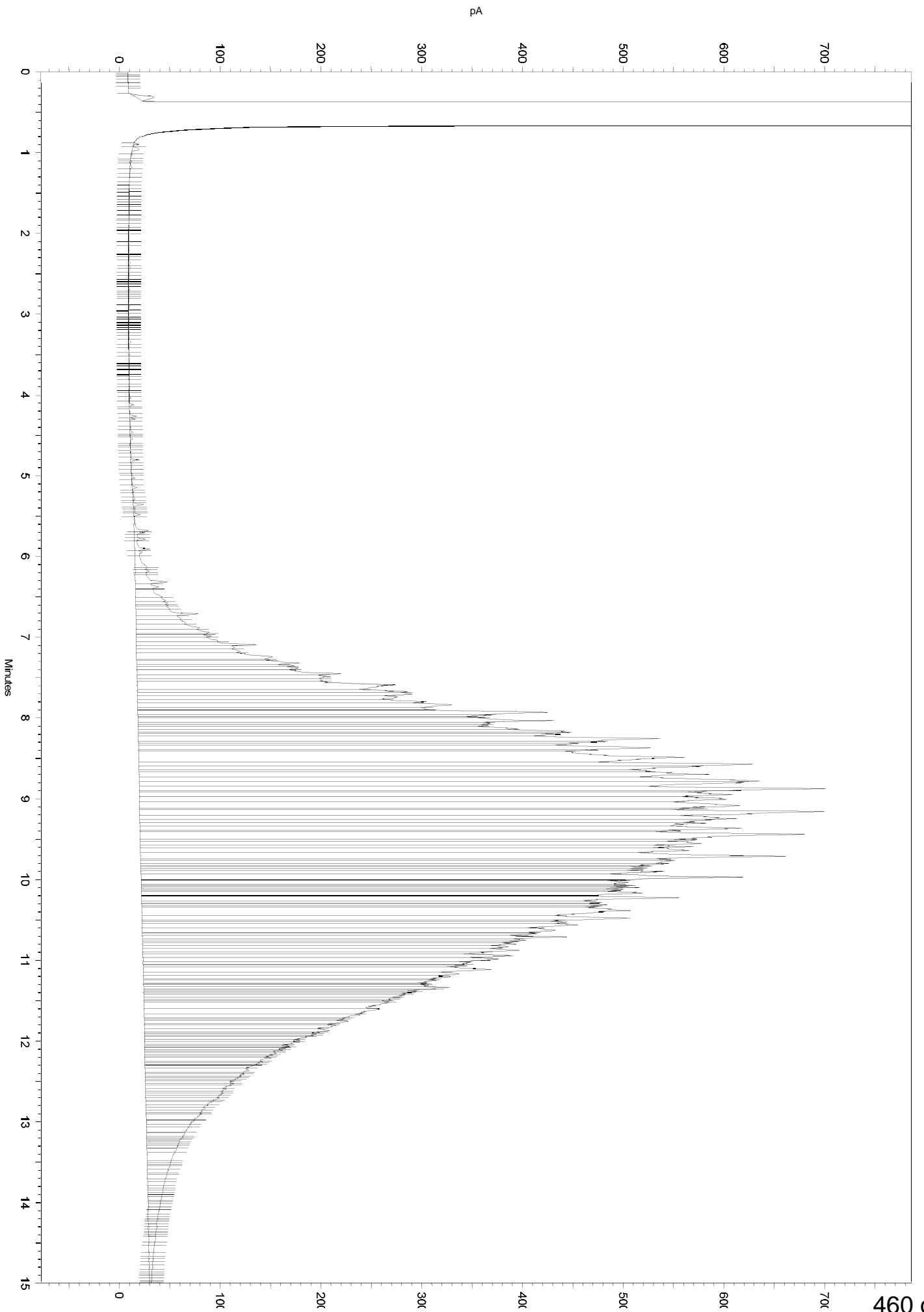
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold            0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\014a036.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        13.127  15.234  0
  
```



Sample Name: ical,s38765,2x,mo_2500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a036.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/15/2019 1:01:47 AM
 Analysis Date: 1/15/2019 3:44:00 PM
 Instrument: GC27 (Offline)A Vial: 86 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		923990	0.000 CAL
DSL:10-14		457528	0.000 CAL
DSL:10-22		79618827	0.000 CAL
DSL:10-24		202386463	0.000 CAL
DSL:10-28		480620619	0.000 CAL
DSL:12-24		202227498	0.000 CAL
DSL:12-28		480461654	0.000 CAL
DSL:14-24		201967332	0.000 CAL
DSL:16-24		201551453	0.000 CAL
MO:22-32		627222617	2500.000 CAL
MO:24-36		654722043	2500.000 CAL
MO:28-40		405544095	2500.000 CAL
BUNKC:10-40		853406552	0.000 CAL
BUNKC:12-40		853247587	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

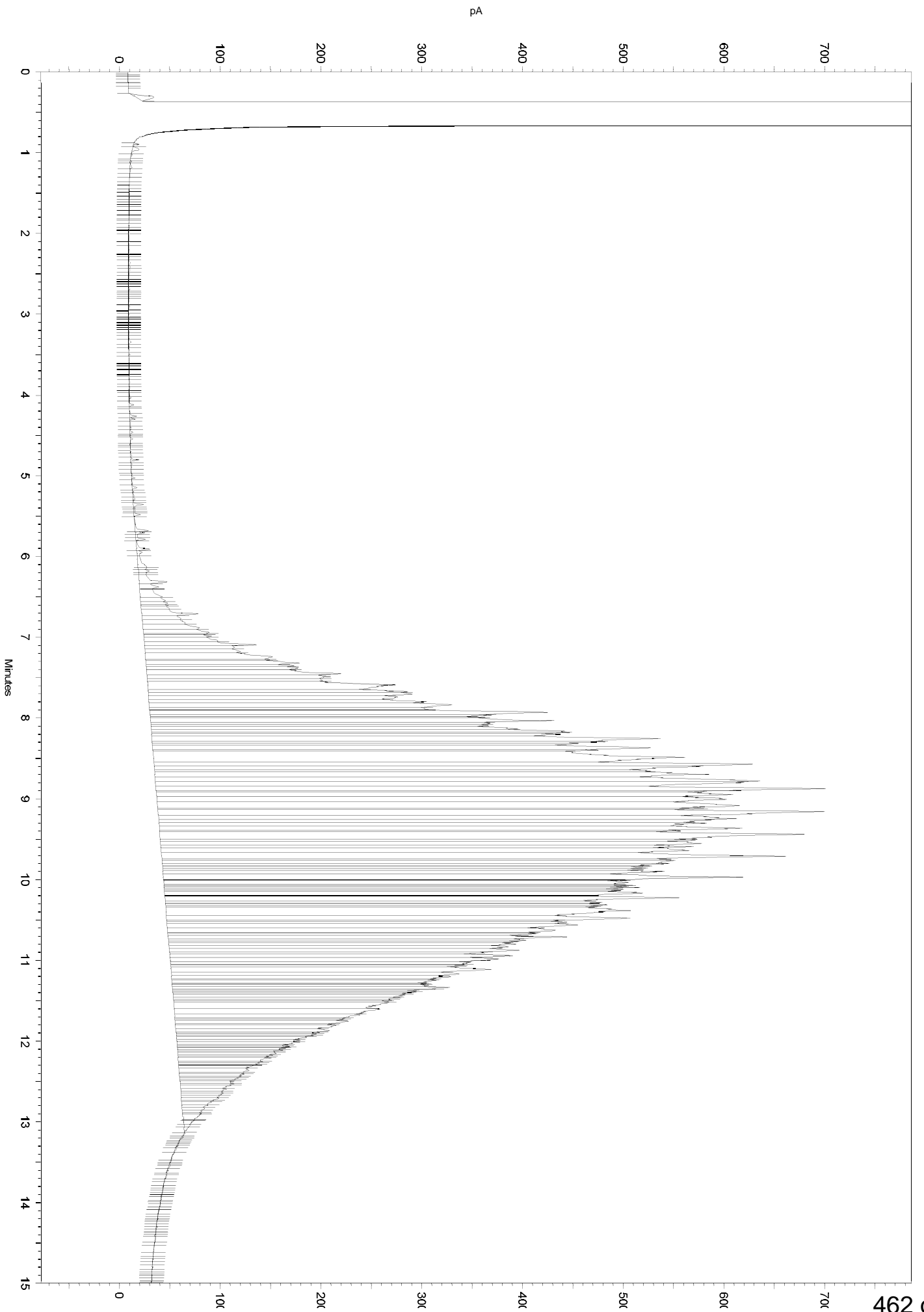
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a036.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Reset Baseline	12.488	0	0



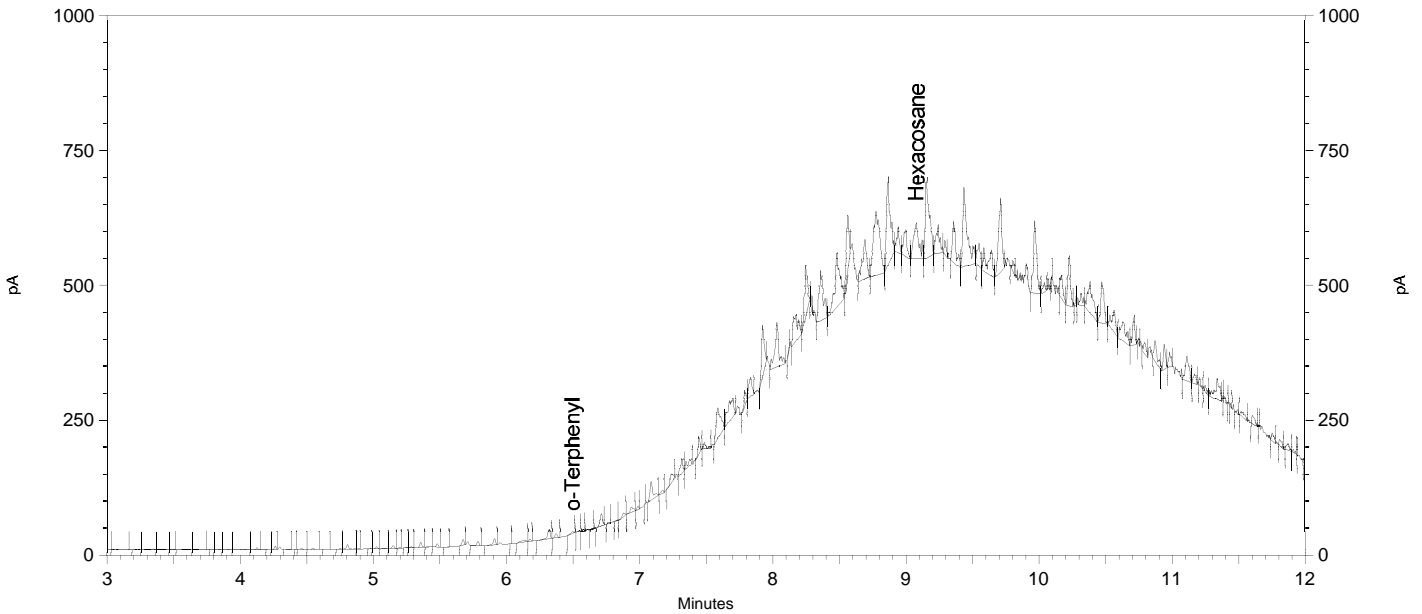
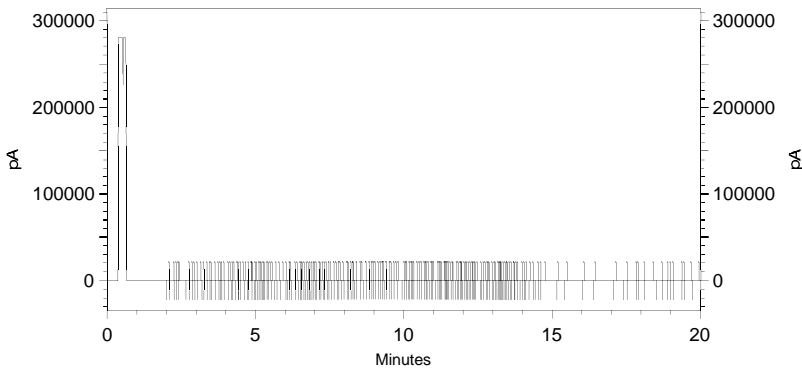
Sample Name: ical,s38931,mo_1000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a036.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_011.met
 Run Date: 1/15/2019 1:01:47 AM
 Analysis Date: 1/15/2019 1:21:48 AM
 Instrument: GC27A Vial: 86 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.497	40693	0.095
Hexacosane	9.082	1396642	4.043



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\014a036.dat_A5B9.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None				

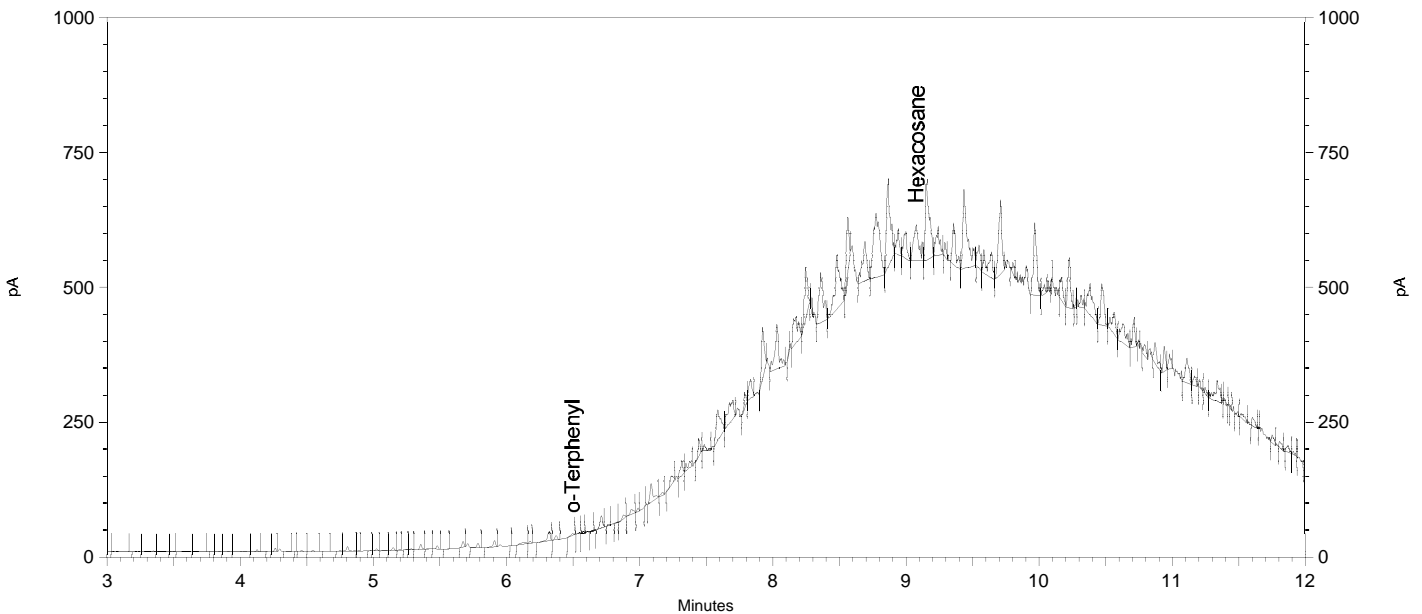
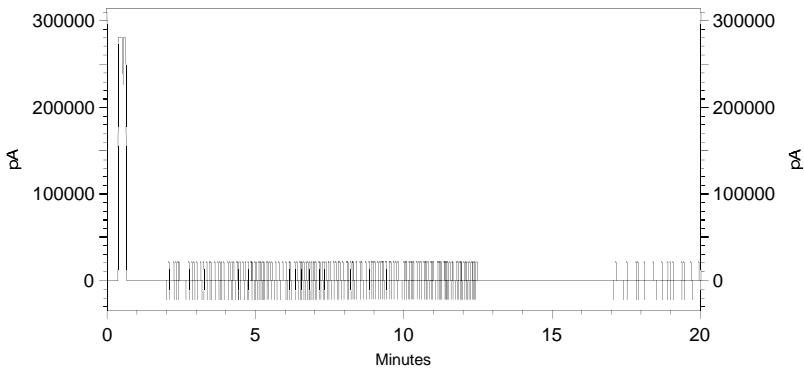
Sample Name: ical,s38765,2x,mo_2500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a036.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_014.met
 Run Date: 1/15/2019 1:01:47 AM
 Analysis Date: 1/15/2019 12:56:46 PM
 Instrument: GC27 (Offline)A Vial: 86 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.497	40693	0.000 CAL
Hexacosane	9.082	1396642	0.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events
 =====

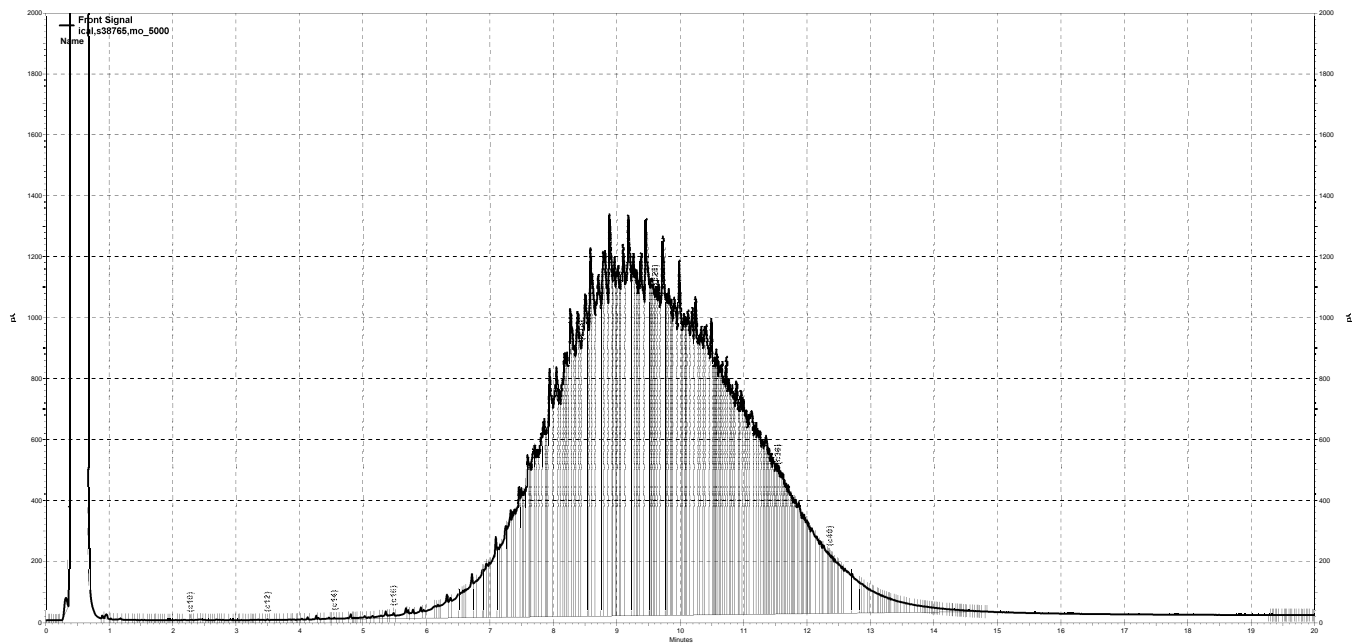
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a036.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline	12.488	0	0



— G:\ezchrom\Projects\GC27\Data\2019\014a037.dat, Front Signal

Sample Name: ical,s38765,mo_5000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a037.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/15/2019 1:25:59 AM
 Analysis Date: 1/16/2019 10:35:32 AM
 Instrument: GC27 (Offline)A Vial: 87 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		3701901	0.000 CAL
DSL:10-14		961820	0.000 CAL
DSL:10-22		200174946	0.000 CAL
DSL:10-24		453465469	0.000 CAL
DSL:10-28		1035507449	0.000 CAL
DSL:12-24		453197524	0.000 CAL
DSL:12-28		1035239504	0.000 CAL
DSL:14-24		452661662	0.000 CAL
DSL:16-24		450421047	0.000 CAL
MO:22-32		1318465943	5000.000 CAL
MO:24-36		1363659806	5000.000 CAL
MO:28-40		889627670	5000.000 CAL
BUNKC:10-40		1848907176	0.000 CAL
BUNKC:12-40		1848639231	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

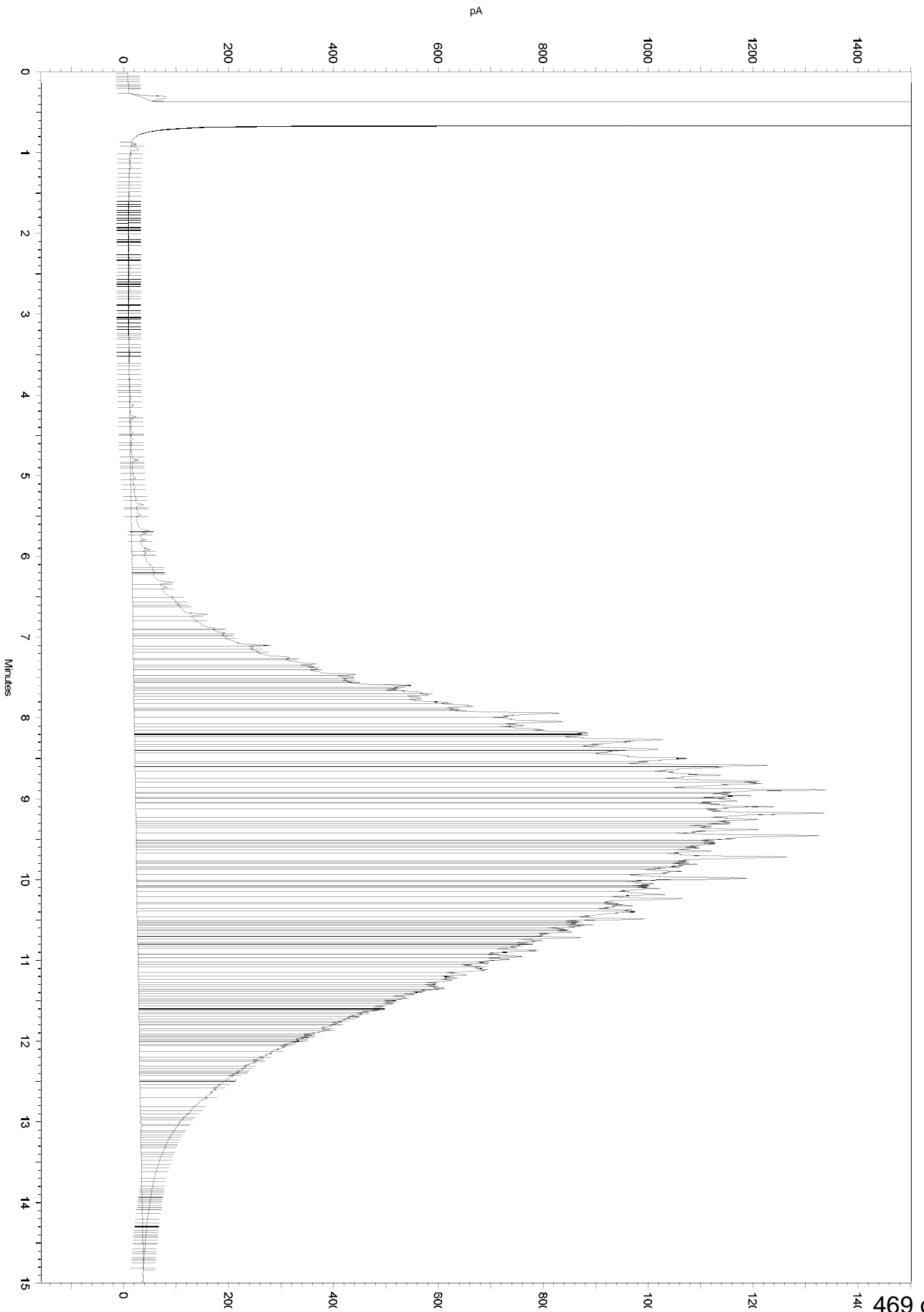
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0       0
Yes Threshold            0       0      10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\014a037.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Move BL Stop        19.258  14.835   0
  
```



Sample Name: ical,s38765,mo_5000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a037.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/15/2019 1:25:59 AM
 Analysis Date: 1/15/2019 3:44:26 PM
 Instrument: GC27 (Offline)A Vial: 87 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		4997885	0.000 CAL
DSL:10-14		1360685	0.000 CAL
DSL:10-22		206362241	0.000 CAL
DSL:10-24		461682843	0.000 CAL
DSL:10-28		1047885403	0.000 CAL
DSL:12-24		461414898	0.000 CAL
DSL:12-28		1047617458	0.000 CAL
DSL:14-24		460575909	0.000 CAL
DSL:16-24		457495949	0.000 CAL
MO:22-32		1329520186	5000.000 CAL
MO:24-36		1377365252	5000.000 CAL
MO:28-40		903774983	5000.000 CAL
BUNKC:10-40		1874816865	0.000 CAL
BUNKC:12-40		1874548920	0.000 CAL
?		0	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

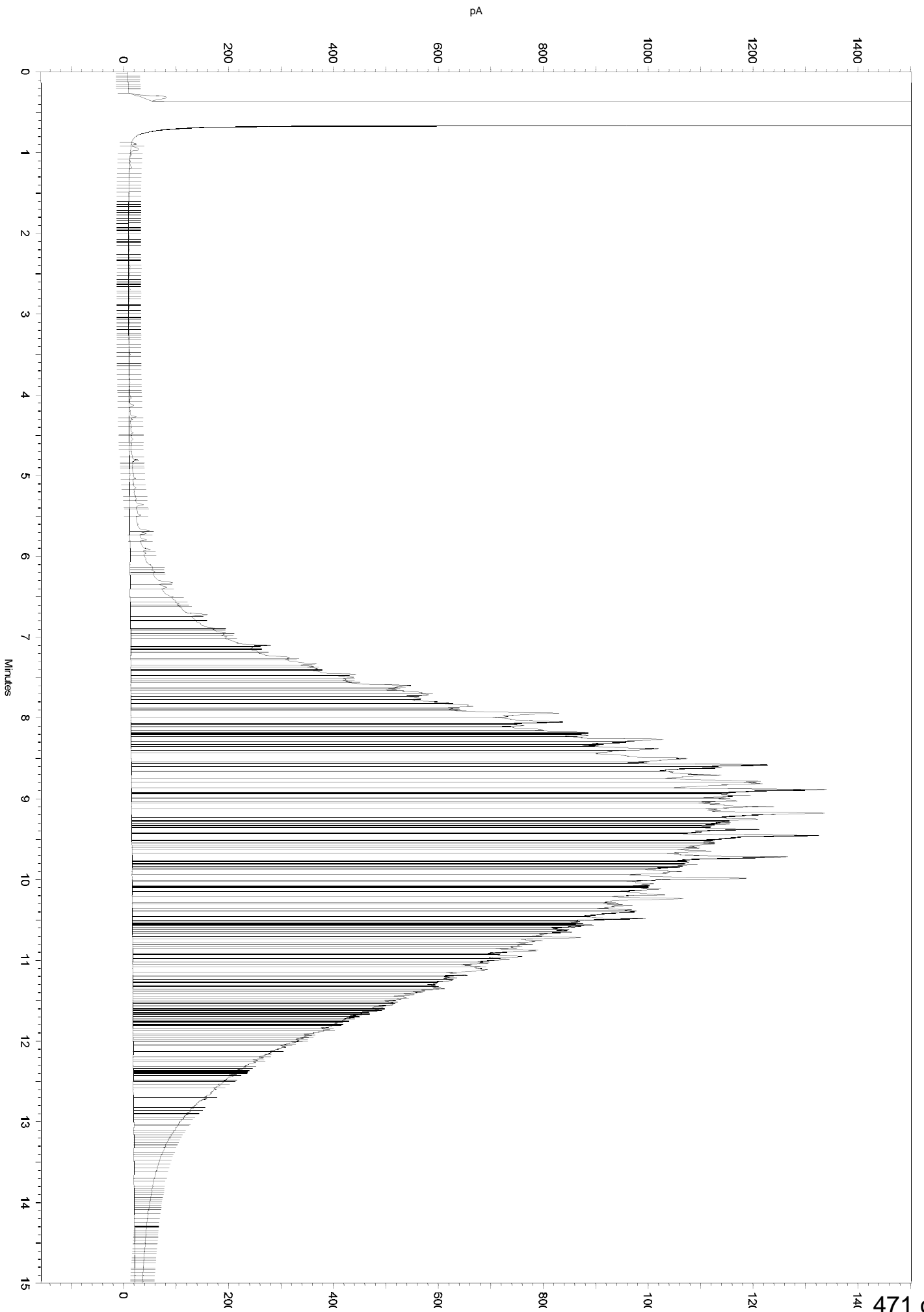
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0         0     0
Yes Threshold            0         0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\014a037.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Reset Baseline      12.427    0     0
  
```

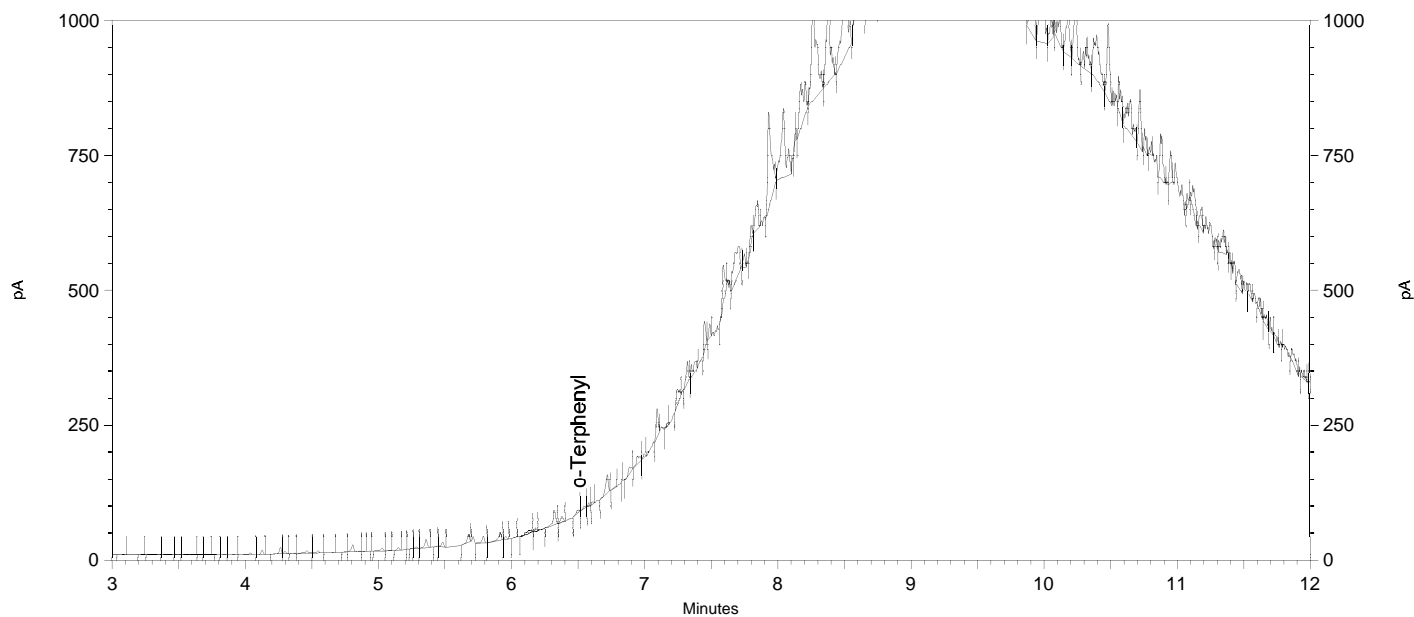
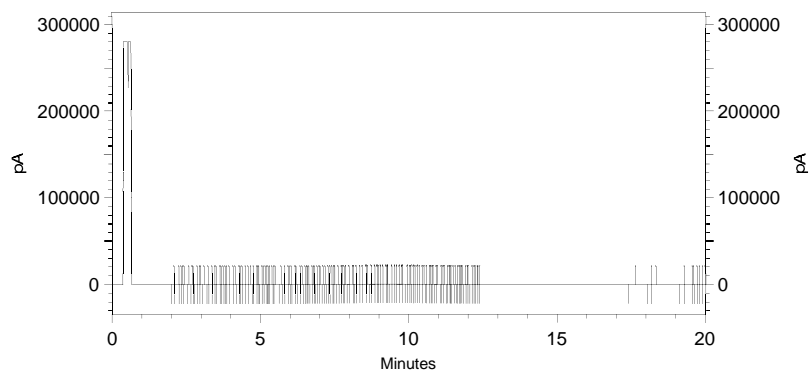


Sample Name: ical,s38765,mo_5000
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a037.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_014.met
 Run Date: 1/15/2019 1:25:59 AM
 Analysis Date: 1/15/2019 12:56:49 PM
 Instrument: GC27 (Offline)A Vial: 87 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.505	59175	0.000 CAL
Hexacosane	9.023	1182560	0.000 CAL



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

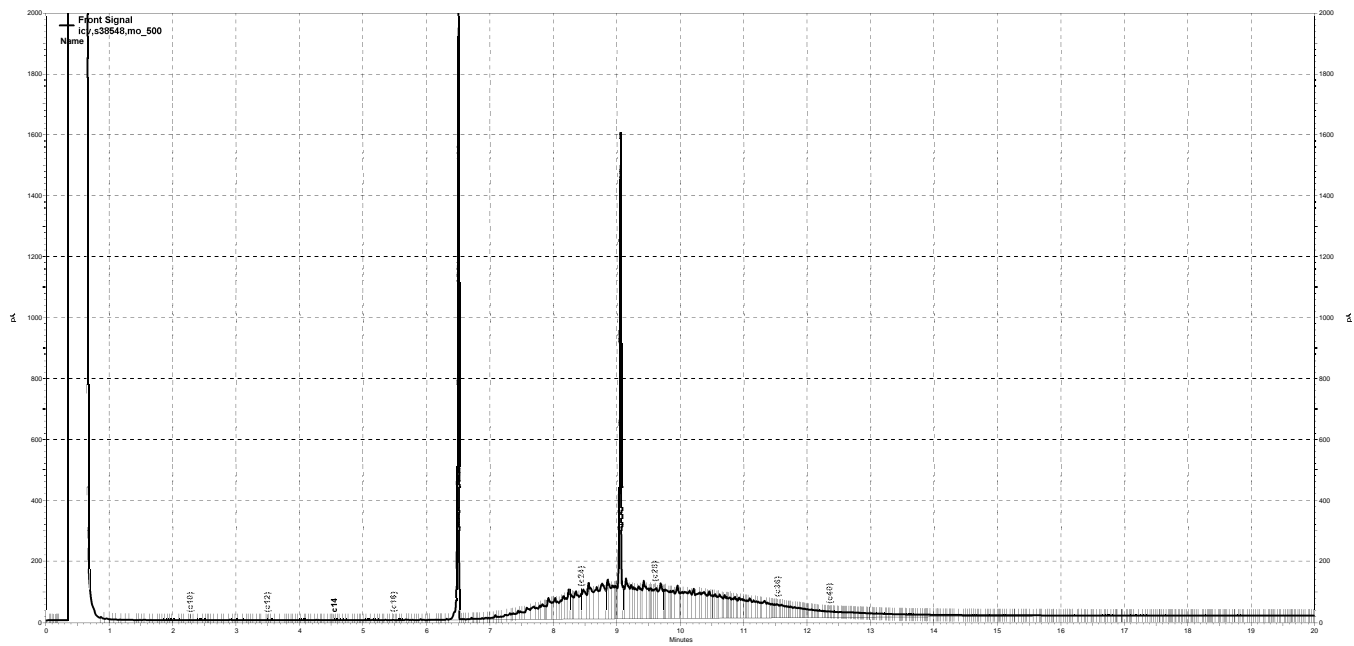
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a037.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline	12.427	0	0



— G:\ezchrom\Projects\GC27\Data\2019\014a039.dat, Front Signal

Sample Name: icv,s38548,mo_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a039.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/15/2019 2:14:06 AM
 Analysis Date: 1/16/2019 10:46:15 AM
 Instrument: GC27 (Offline)A Vial: 89 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		241393	0.510
DSL:10-14		155885	1.059
DSL:10-22		32084727	88.159
DSL:10-24		53092883	143.337
DSL:10-28		119944019	321.859
DSL:12-24		53017273	167.997
DSL:12-28		119868409	377.137
DSL:14-24		52944623	222.128
DSL:16-24		52868086	330.430
MO:22-32		129787522	558.120
MO:24-36		133831162	557.480
MO:28-40		78727324	514.463
BUNKC:10-40		192627142	953.267
BUNKC:12-40		192551532	982.915

? 0 0.000

 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

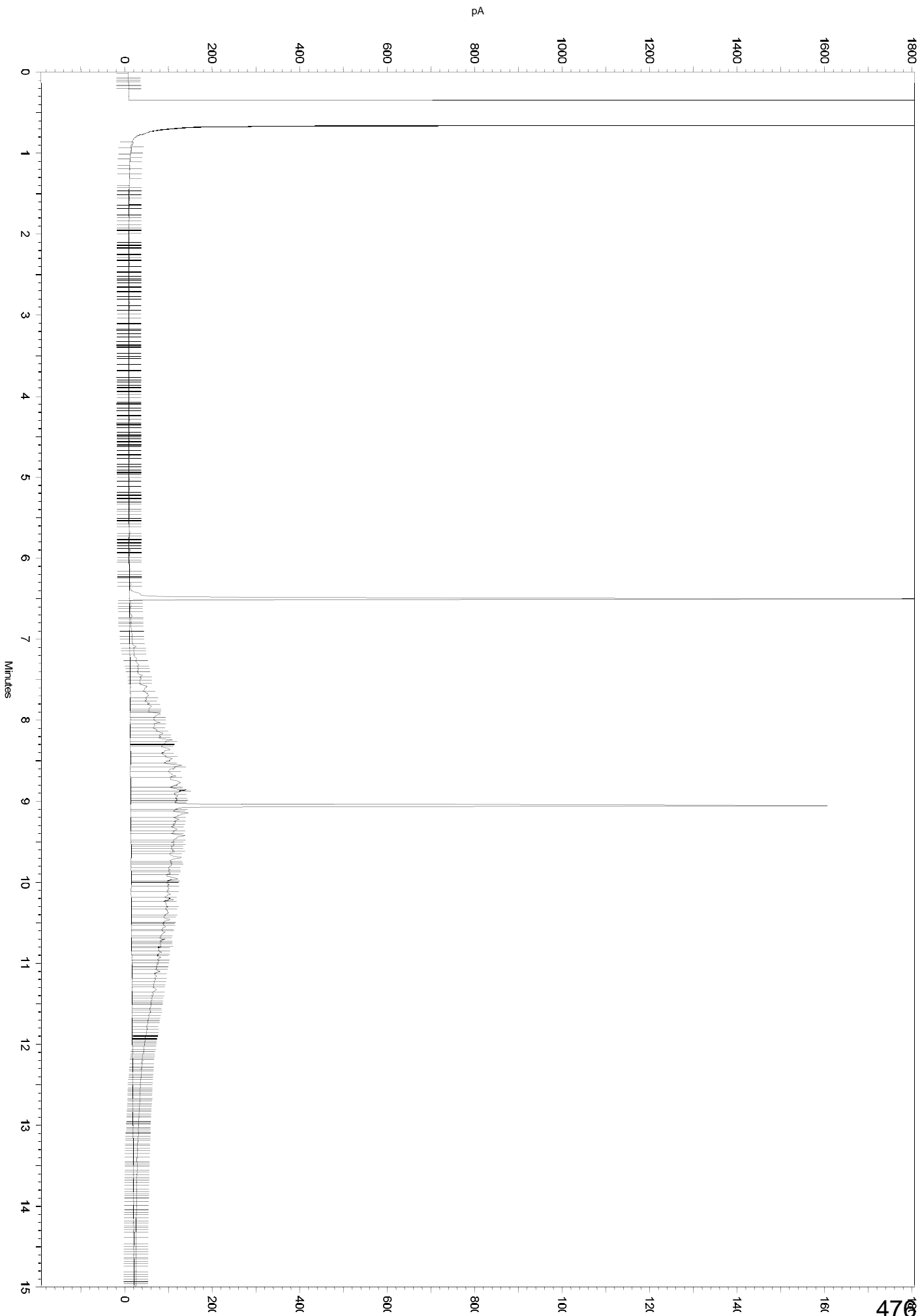
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a039.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.346	6.558	0
No	Split Peak	6.526	0	0
No	Manual Peak	8.83	9.324	0
No	Split Peak	9.014	0	0
No	Split Peak	9.095	0	0

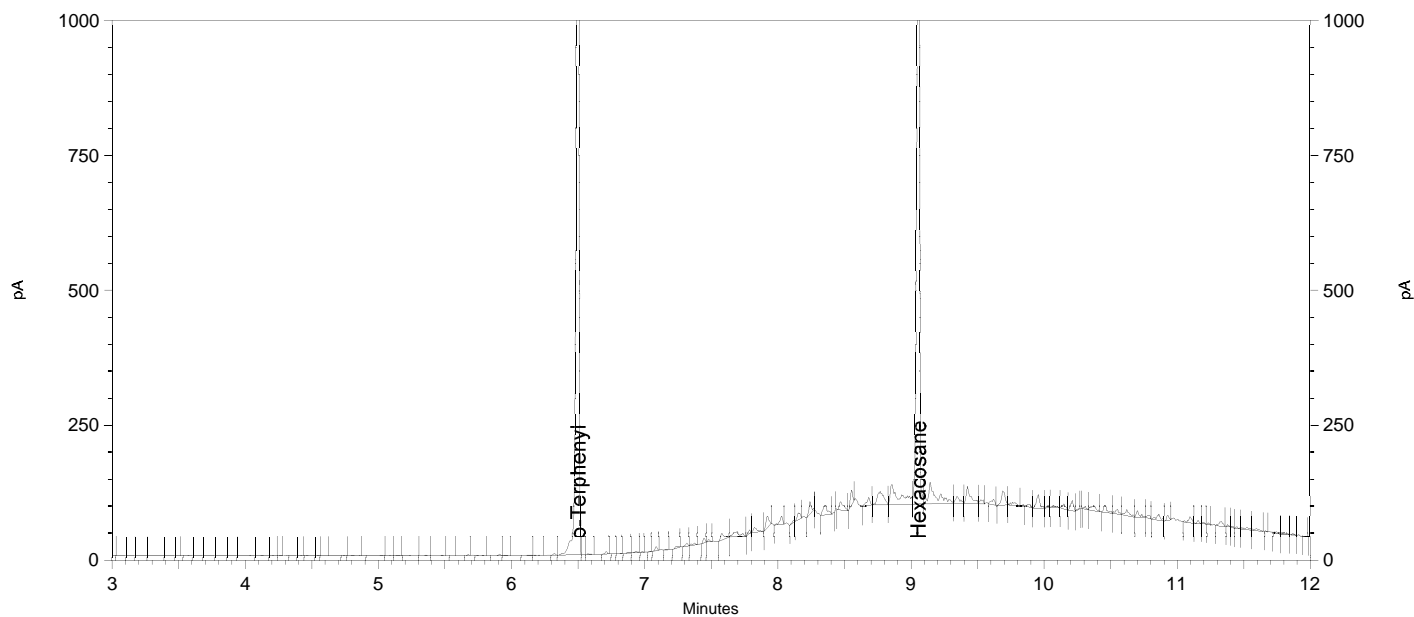
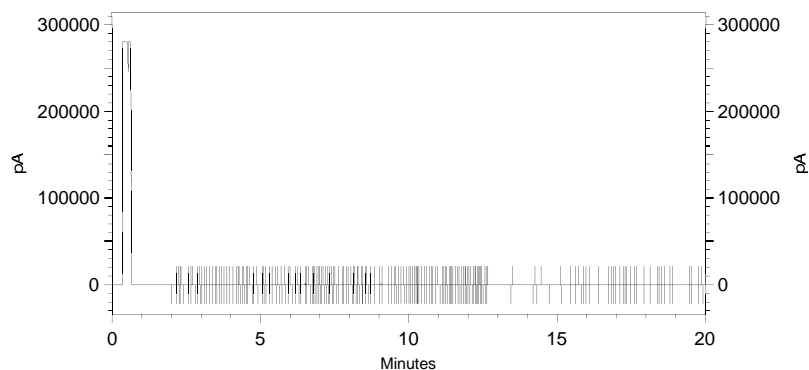


Sample Name: **ib,calib**
 Data File: **G:\ezchrom\Projects\GC27\Data\2019\014a039.dat**
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2019\014.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\SURRO_014.met**
 Run Date: **1/15/2019 2:14:06 AM**
 Analysis Date: **1/16/2019 10:45:33 AM**
 Instrument: **GC27 (Offline)A** Vial: 89 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.505	21849710	50.885
Hexacosane	9.058	15623597	45.225



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a039.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.346	6.558	0
Yes	Split Peak	6.526	0	0
Yes	Manual Peak	8.83	9.324	0
Yes	Split Peak	9.014	0	0
Yes	Split Peak	9.095	0	0

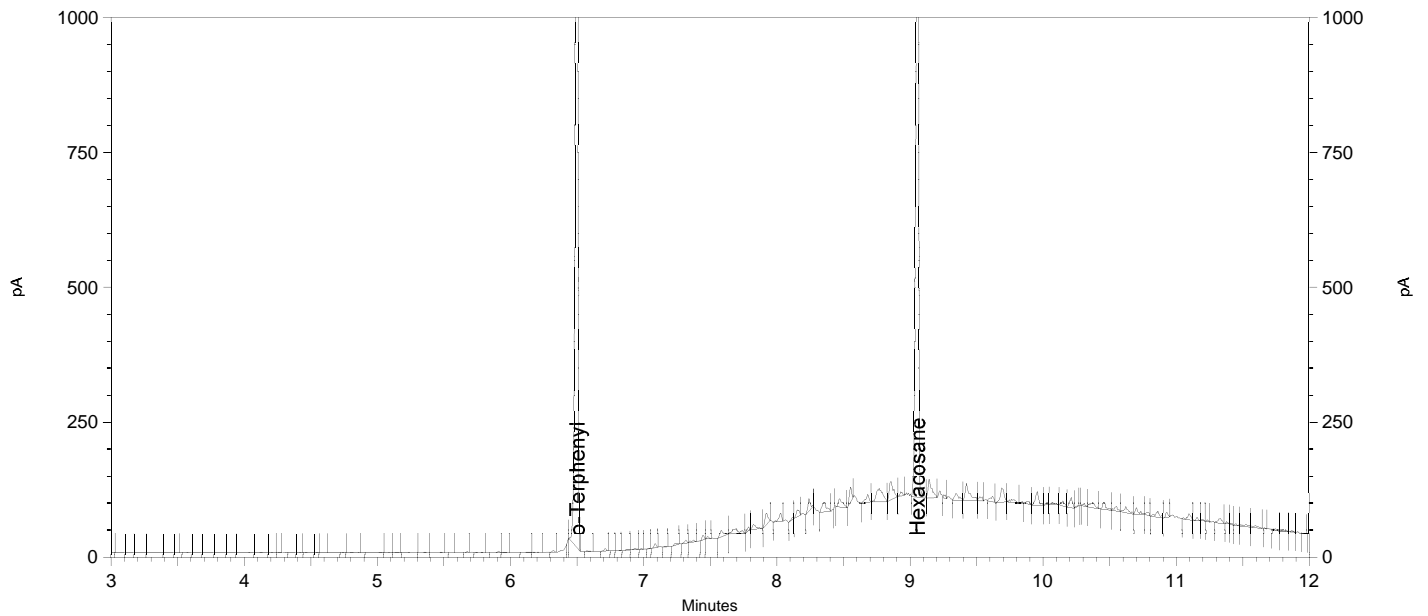
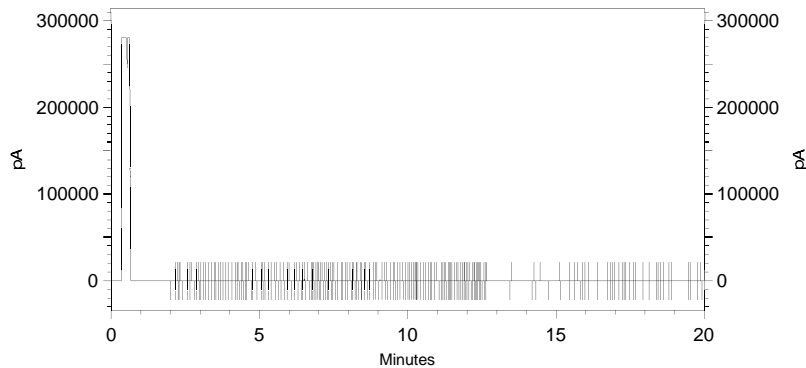
Sample Name: icv,s38548,mo_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\014a039.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\014.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_014.met
 Run Date: 1/15/2019 2:14:06 AM
 Analysis Date: 1/16/2019 10:45:23 AM
 Instrument: GC27 (Offline)A Vial: 89 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.505	21111708	49.166
Hexacosane	9.058	15425873	44.652



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\014a039.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.346	6.558	0
No	Split Peak	6.526	0	0
No	Manual Peak	8.83	9.324	0
No	Split Peak	9.014	0	0
No	Split Peak	9.095	0	0

Carbon Marker Run

Inst : GC14B
 Seqnum : 229036718015
 Standards: S39447

Run Name : C10-C40
 File : 025_015

IDF : 1.0
 Time : 25-JAN-2019 18:56

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	2.702	+/- 4.5s (0.075m)	2.627 - 2.777
C12 - n-Dodecane	B	4.025	+/- 4.5s (0.075m)	3.950 - 4.100
C14 - n-Tetradecane	B	5.19	+/- 4.5s (0.075m)	5.115 - 5.265
C16 - n-Hexadecane	B	6.225	+/- 4.5s (0.075m)	6.150 - 6.300
C18 - n-Octadecane	B	7.155	+/- 4.5s (0.075m)	7.080 - 7.230
C20 - n-Eicosane	B	7.998	+/- 4.5s (0.075m)	7.923 - 8.073
C22 - n-Docosane	B	8.77	+/- 4.5s (0.075m)	8.695 - 8.845
C24 - n-Tetracosane	B	9.478	+/- 4.5s (0.075m)	9.403 - 9.553
C28 - n-Octacosane	B	10.747	+/- 4.5s (0.075m)	10.672 - 10.822
C30 - n-Triacontane	B	11.315	+/- 4.5s (0.075m)	11.240 - 11.390
C32 - n-Dotriacontane	B	11.848	+/- 4.5s (0.075m)	11.773 - 11.923
C34 - n-Tetracontane	B	12.373	+/- 4.5s (0.075m)	12.298 - 12.448
C36 - n-Hexatriacontane	B	12.982	+/- 4.5s (0.075m)	12.907 - 13.057
C40 - n-Tetracontane	B	14.757	+/- 4.5s (0.075m)	14.682 - 14.832

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	2.627	6.300
Diesel C10-C22	B	2.627	8.845
Diesel C10-C24	B	2.627	9.553
Diesel C10-C28	B	2.627	10.822
Diesel C12-C24	B	3.950	9.553
Diesel C12-C28	B	3.950	10.822
Diesel C16-C24	B	6.150	9.553
Motor Oil C22-C32	B	8.695	11.923
Motor Oil C24-C36	B	9.403	13.057
Motor Oil C28-C40	B	10.672	14.832
Bunker C C10-C40	B	2.627	14.832
Bunker C C12-C40	B	3.950	14.832
Diesel C10-C14	B	2.627	5.265
Diesel C14-C24	B	5.115	9.553

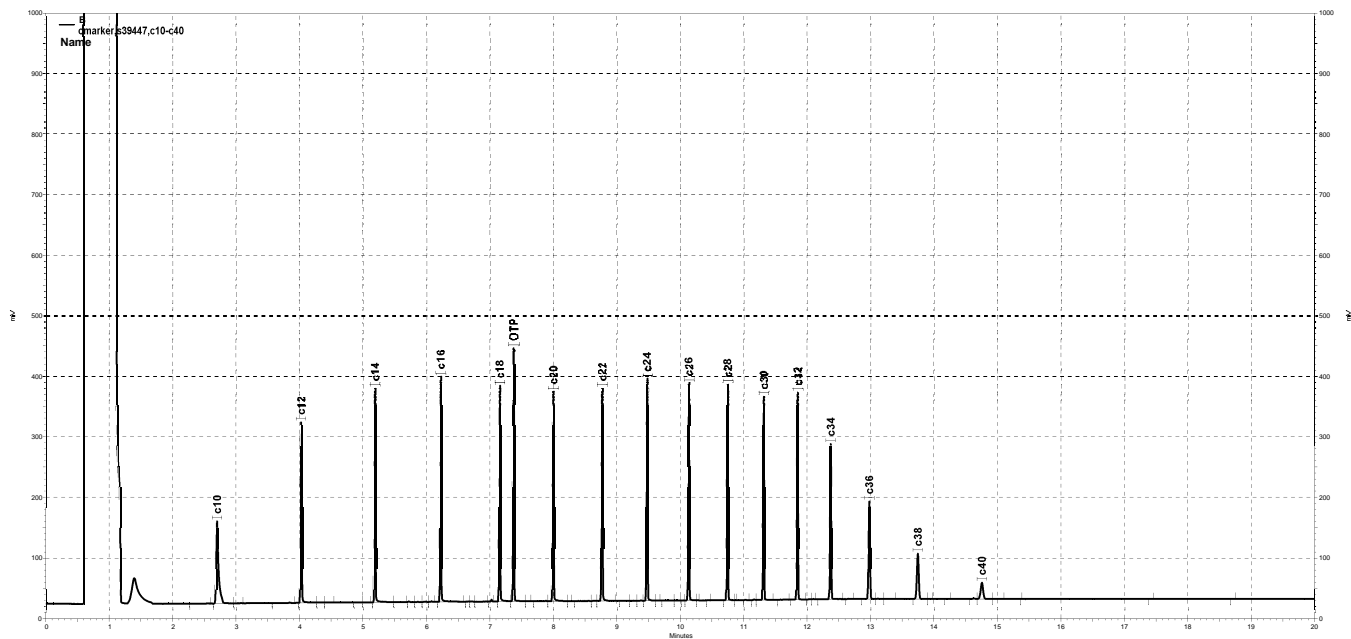
EZChrom method retention times successfully validated.

Analyst: TKY

Date: 01/28/19

Reviewer: EAH

Date: 01/28/19



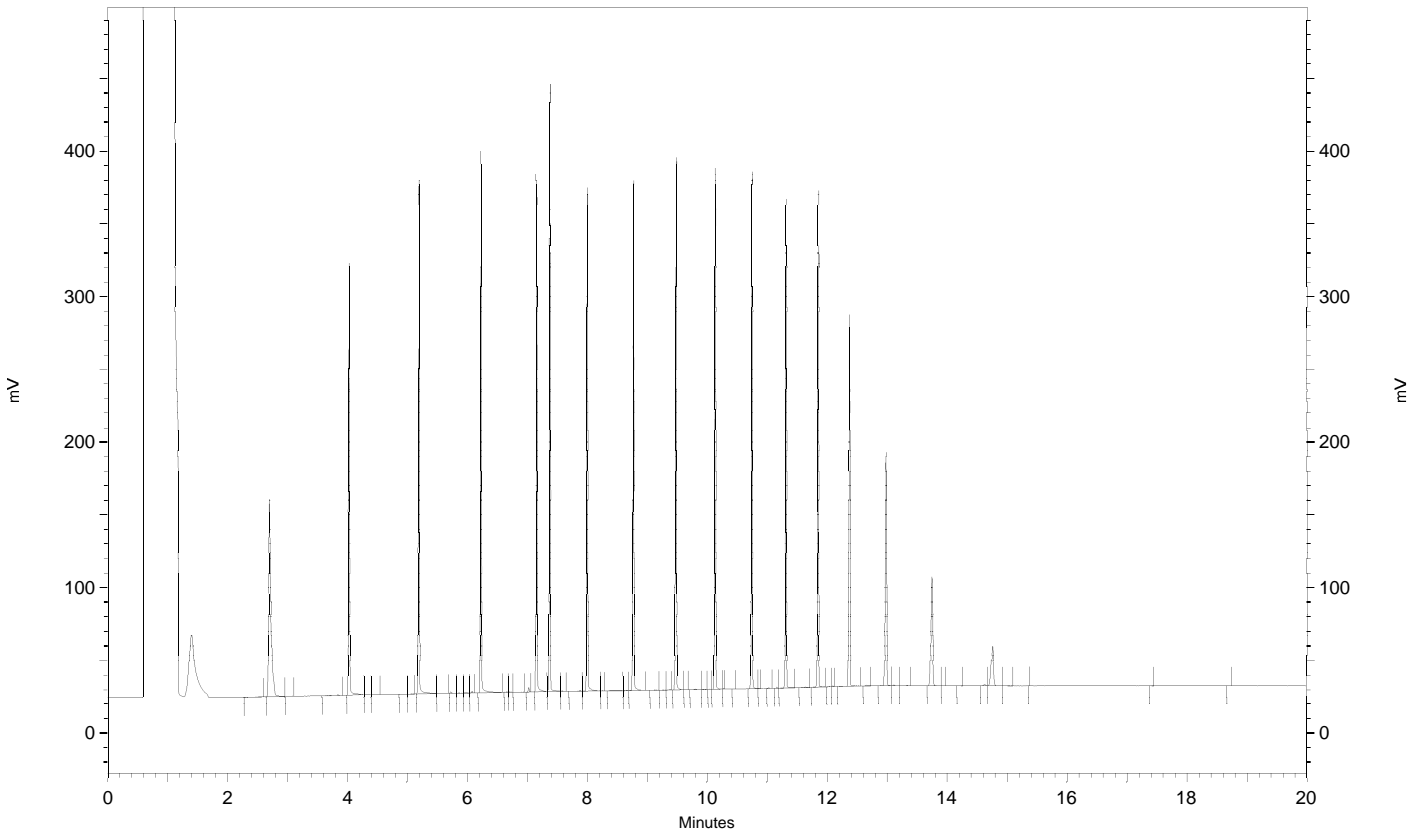
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b015, B

Sample Name: cmarker,s39447,c10-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b015
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\kraken\gdrive\ezchrom\Projects\GC14B\Method\cm_025.met
Run Date: 1/25/2019 6:56:47 PM
Analysis Date: 1/27/2019 2:26:53 PM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

GC14B

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	2.702	339673	0.000
c12	4.025	344759	0.000
c14	5.190	358030	0.000
c16	6.225	369452	0.000
c18	7.155	367575	0.000
OTP	7.375	445169	0.000
c20	7.998	373036	0.000
c22	8.770	379573	0.000
c24	9.478	378614	0.000
c26	10.135	381307	0.000
c28	10.747	388915	0.000
c30	11.315	386153	0.000
c32	11.848	378392	0.000
c34	12.373	328678	0.000
c36	12.982	251102	0.000
c38	13.747	151916	0.000
c40	14.757	72600	0.000

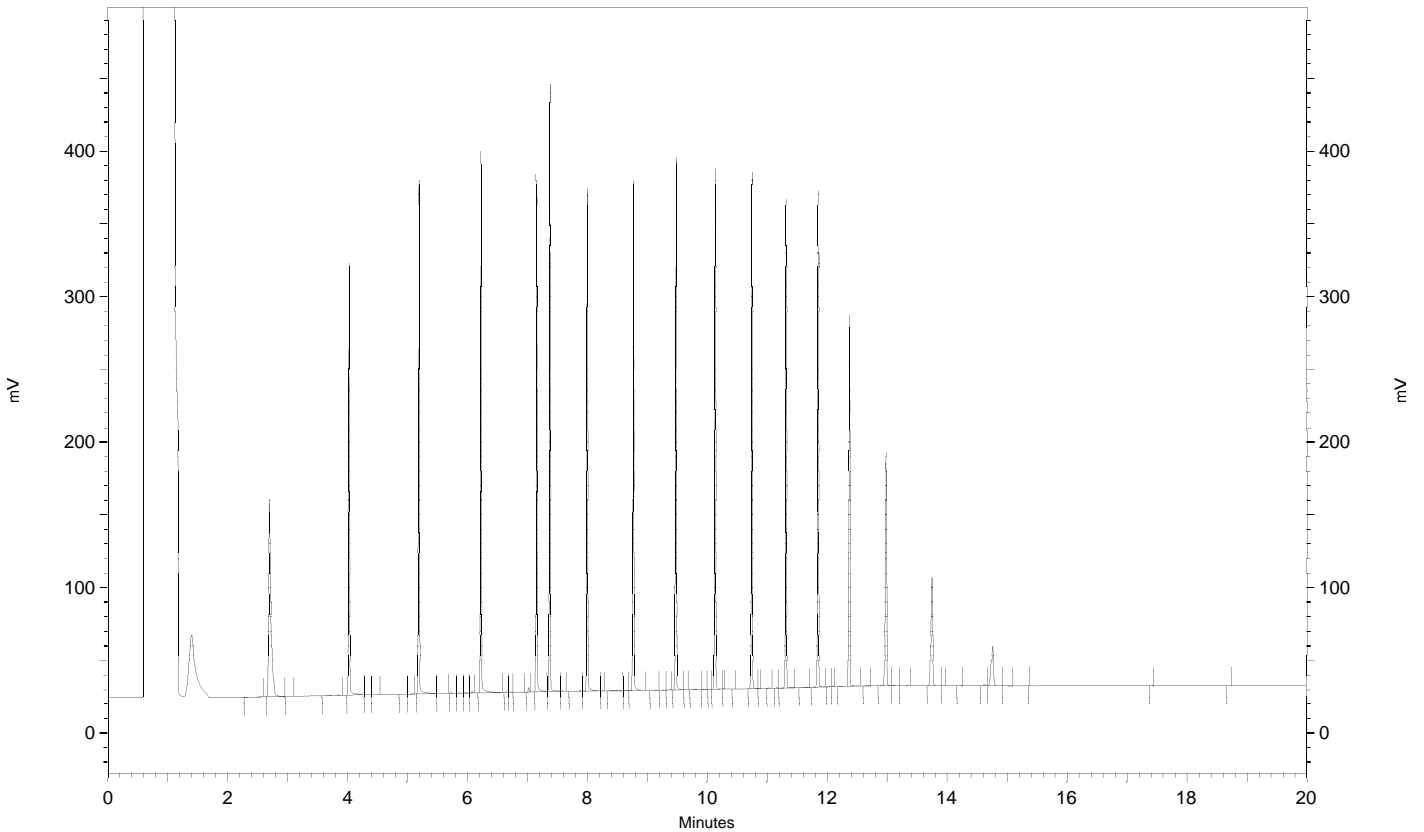


Sample Name: cmarker,s39447,c10-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\cm_025b.met
Run Date: 1/25/2019 6:56:47 PM
Analysis Date: 1/28/2019 10:21:46 AM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

GC14B

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	2.702	339673	0.000
c12	4.025	344759	0.000
c14	5.190	358030	0.000
c16	6.225	369452	0.000
c18	7.155	367575	0.000
OTP	7.375	445169	0.000
c20	7.998	373036	0.000
c22	8.770	379573	0.000
c24	9.478	378614	0.000
c26	10.135	381307	0.000
c28	10.747	388915	0.000
c30	11.315	386153	0.000
c32	11.848	378392	0.000
c34	12.373	328678	0.000
c36	12.982	251102	0.000
c38	13.747	151916	0.000
c40	14.757	72600	0.000



Sample Name: cmarker,s39447,c10-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
 Run Date: 1/25/2019 6:56:47 PM
 Analysis Date: 1/28/2019 10:24:58 AM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1453335	32.374
DSL:10-14	1065959	71.425
DSL:10-22	3056825	74.821
DSL:10-24	3438398	81.711
DSL:10-28	4216149	98.557
DSL:12-24	3089546	83.940
DSL:12-28	3867297	103.113
DSL:14-24	2727161	95.112
DSL:16-24	2349871	117.432
MO:22-32	2311826	76.709
MO:24-36	2538964	80.267
MO:28-40	2007263	97.464
BUNKC:10-40	5834062	284.316
BUNKC:12-40	5485210	275.219

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

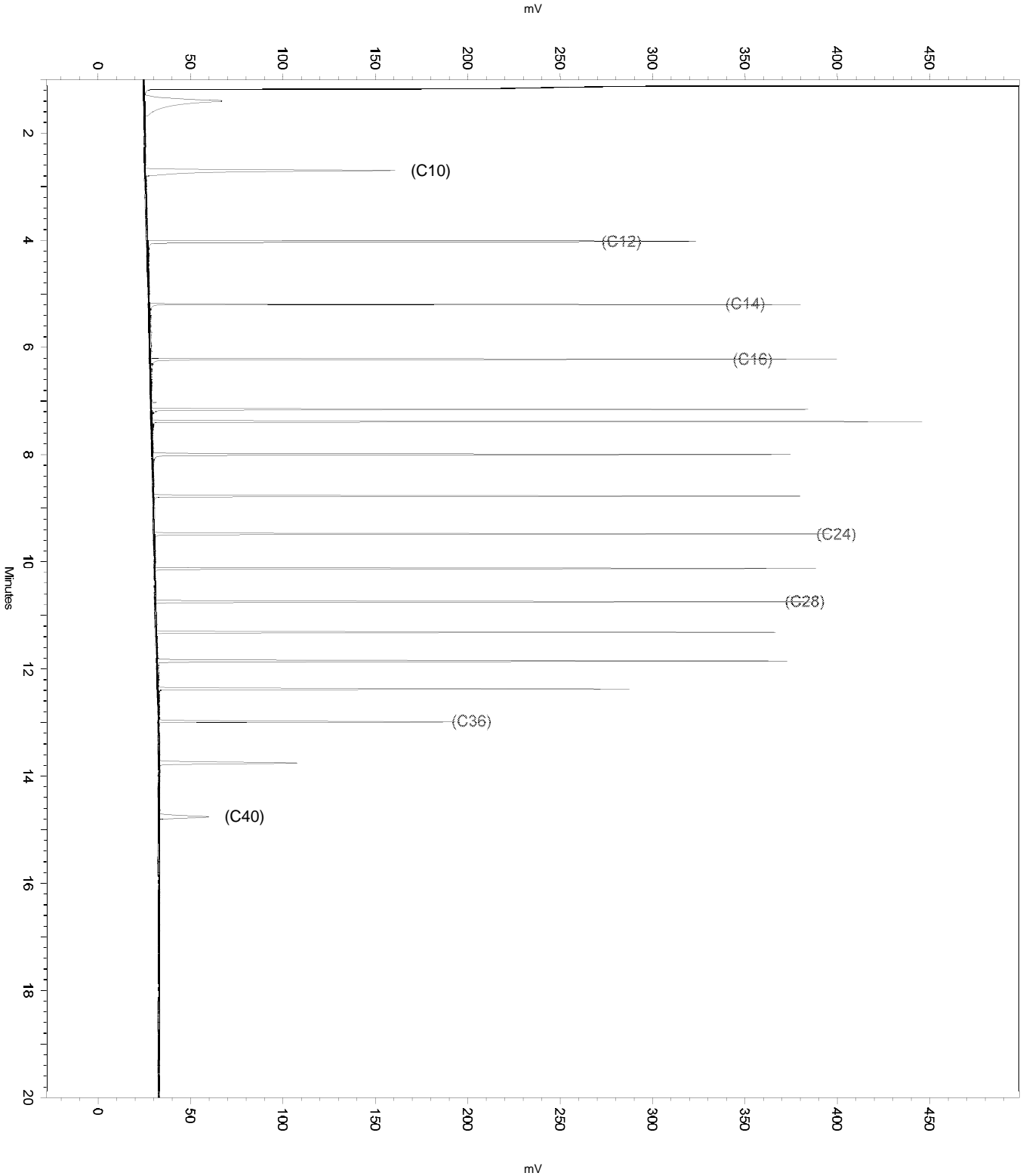
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b015
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

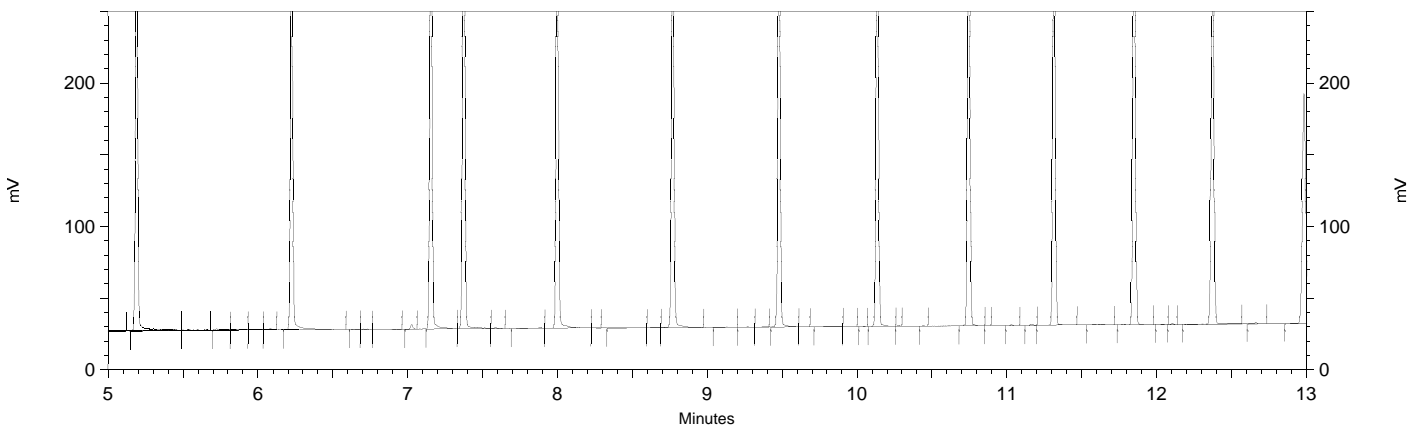
Sample Name: cmarker,s39447,c10-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025.met
Run Date: 1/25/2019 6:56:47 PM
Analysis Date: 1/28/2019 10:24:58 AM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: cmarker,s39447,c10-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\025b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\025.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/25/2019 6:56:47 PM
 Analysis Date: 1/25/2019 7:16:56 PM
 Instrument: GC14B Vial: 15 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.375	445169	8.522
Hexacosane	10.135	381307	9.060



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\025b015_B5F6.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Carbon Marker Run

Inst : GC14B
 Seqnum : 229046549024
 Standards: S39447

Run Name : C10-C40
 File : 032_024

IDF : 1.0
 Time : 02-FEB-2019 00:53

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	2.698	+/- 4.5s (0.075m)	2.623 - 2.773
C12 - n-Dodecane	B	4.018	+/- 4.5s (0.075m)	3.943 - 4.093
C14 - n-Tetradecane	B	5.183	+/- 4.5s (0.075m)	5.108 - 5.258
C16 - n-Hexadecane	B	6.22	+/- 4.5s (0.075m)	6.145 - 6.295
C18 - n-Octadecane	B	7.15	+/- 4.5s (0.075m)	7.075 - 7.225
C20 - n-Eicosane	B	7.992	+/- 4.5s (0.075m)	7.917 - 8.067
C22 - n-Docosane	B	8.763	+/- 4.5s (0.075m)	8.688 - 8.838
C24 - n-Tetracosane	B	9.472	+/- 4.5s (0.075m)	9.397 - 9.547
C28 - n-Octacosane	B	10.737	+/- 4.5s (0.075m)	10.662 - 10.812
C30 - n-Triacontane	B	11.308	+/- 4.5s (0.075m)	11.233 - 11.383
C32 - n-Dotriacontane	B	11.842	+/- 4.5s (0.075m)	11.767 - 11.917
C34 - n-Tetratriacontane	B	12.363	+/- 4.5s (0.075m)	12.288 - 12.438
C36 - n-HexatriacontaneC36	B	12.973	+/- 4.5s (0.075m)	12.898 - 13.048
C40 - n-Tetracontane	B	14.745	+/- 4.5s (0.075m)	14.670 - 14.820

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	2.623	6.295
Diesel C10-C22	B	2.623	8.838
Diesel C10-C24	B	2.623	9.547
Diesel C10-C28	B	2.623	10.812
Diesel C12-C24	B	3.943	9.547
Diesel C12-C28	B	3.943	10.812
Diesel C16-C24	B	6.145	9.547
Motor Oil C22-C32	B	8.688	11.917
Motor Oil C24-C36	B	9.397	13.048
Motor Oil C28-C40	B	10.662	14.820
Bunker C C10-C40	B	2.623	14.820
Bunker C C12-C40	B	3.943	14.820
Diesel C10-C14	B	2.623	5.258
Diesel C14-C24	B	5.108	9.547

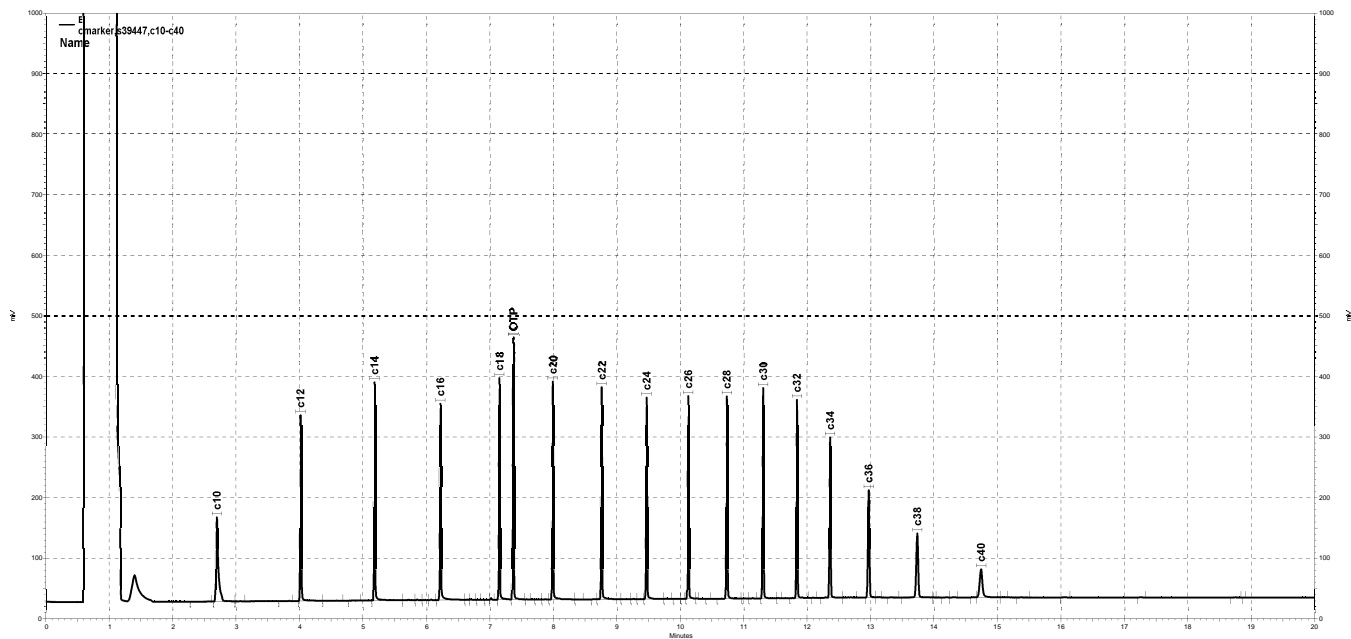
EZChrom method retention times successfully validated.

Analyst: TKY

Date: 02/04/19

Reviewer: EAH

Date: 02/04/19



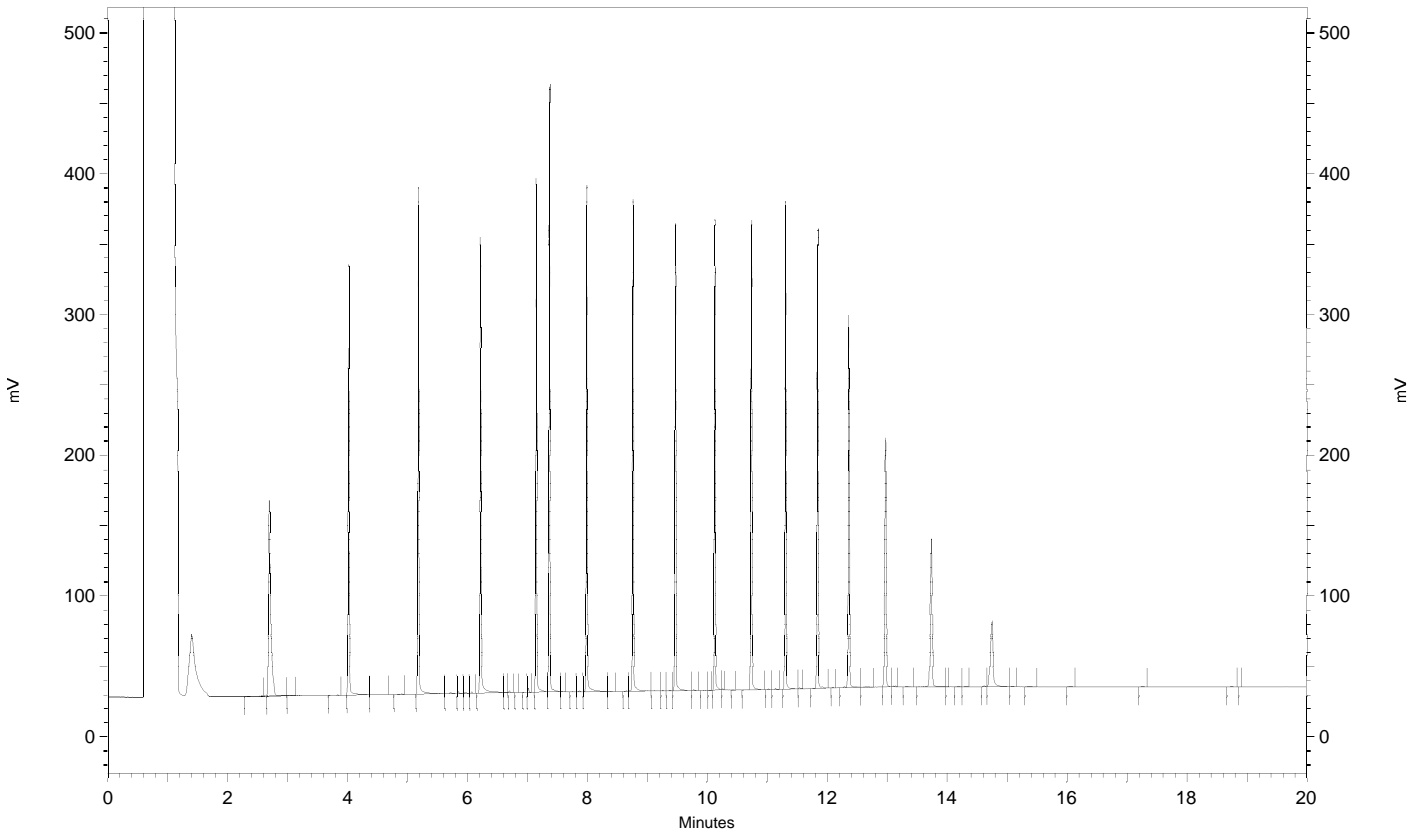
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b024, B

Sample Name: cmarker,s39447,c10-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b024
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\cm_035.met
Run Date: 2/2/2019 12:53:38 AM
Analysis Date: 2/4/2019 10:29:16 AM
Instrument: GC14B Vial: 24 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

GC14B

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	2.698	355310	0.000
c12	4.018	368518	0.000
c14	5.183	381033	0.000
c16	6.220	380454	0.000
c18	7.150	376872	0.000
OTP	7.370	467095	0.000
c20	7.992	382029	0.000
c22	8.763	381273	0.000
c24	9.472	375267	0.000
c26	10.128	370784	0.000
c28	10.737	381232	0.000
c30	11.308	373422	0.000
c32	11.842	359599	0.000
c34	12.363	326955	0.000
c36	12.973	287636	0.000
c38	13.738	223078	0.000
c40	14.745	145118	0.000



Sample Name: cmarker,s39447,c10-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b024
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 2/2/2019 12:53:38 AM
 Analysis Date: 2/4/2019 10:29:45 AM
 Instrument: GC14B Vial: 24 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1545021	34.416
DSL:10-14	1142322	76.542
DSL:10-22	3207691	78.514
DSL:10-24	3586603	85.233
DSL:10-28	4349903	101.684
DSL:12-24	3217454	87.415
DSL:12-28	3980754	106.138
DSL:14-24	2826904	98.590
DSL:16-24	2420182	120.946
MO:22-32	2256008	74.857
MO:24-36	2513386	79.459
MO:28-40	2137259	103.776
BUNKC:10-40	6105905	297.563
BUNKC:12-40	5736756	287.841

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

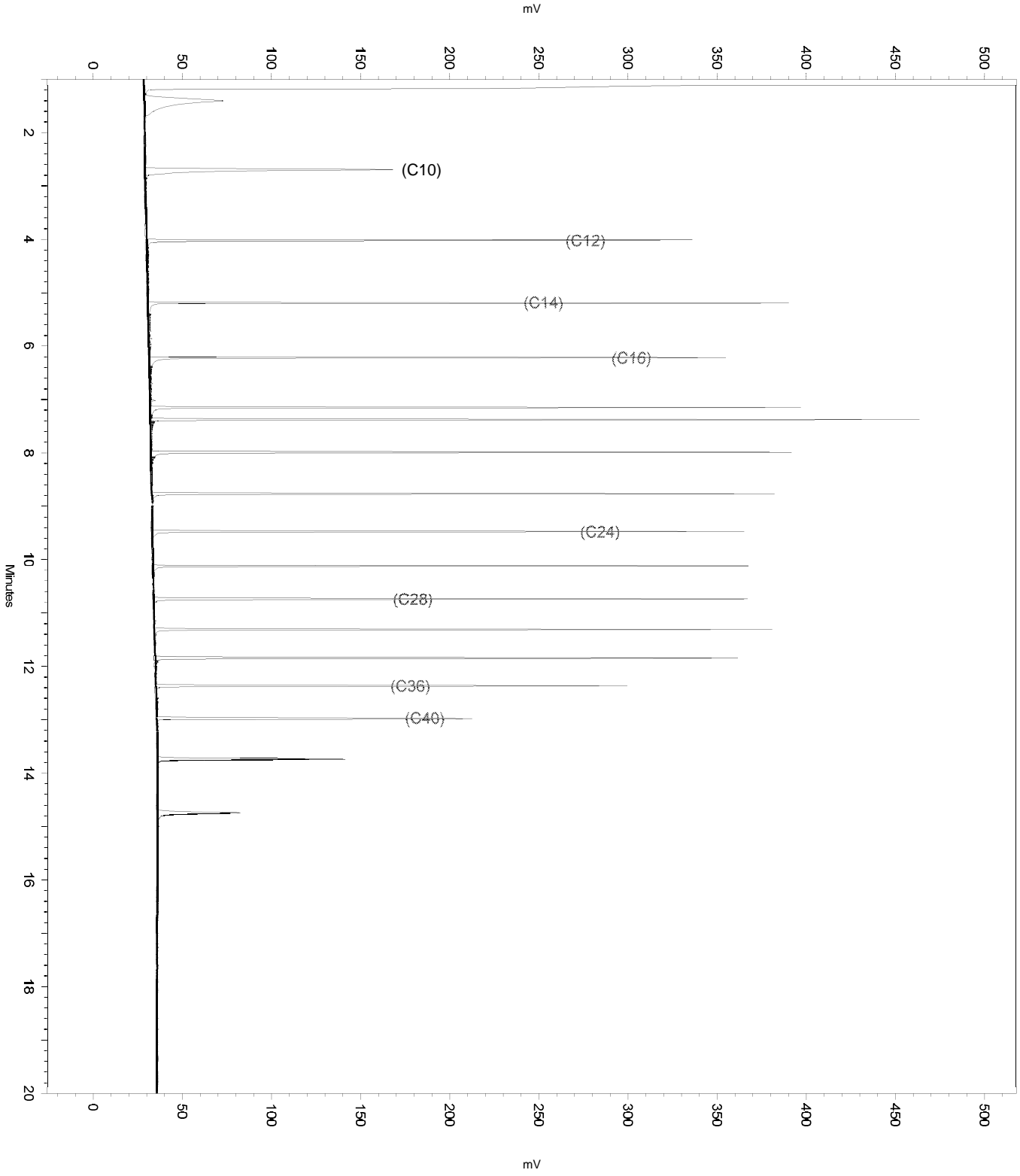
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b024
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

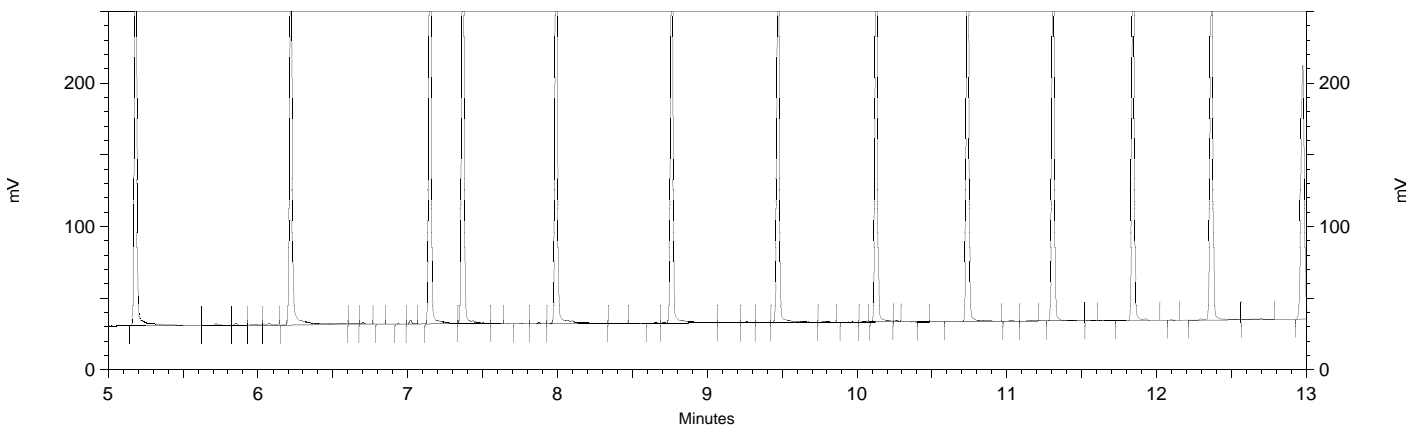
Sample Name: cmarker,s39447,c10-c40
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b024
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 2/2/2019 12:53:38 AM
Analysis Date: 2/4/2019 10:29:45 AM
Instrument: GC14B Vial: 24 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: cmarker,s39447,c10-c40
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\032b024
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\032.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/2/2019 12:53:38 AM
 Analysis Date: 2/2/2019 1:13:47 AM
 Instrument: GC14B Vial: 24 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.370	467095	8.941
Hexacosane	10.128	370784	8.810



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\032b024_B6DB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Carbon Marker Run

Inst : GC27A
 Seqnum : 979030726007
 Standards: S39447

Run Name : C10-C40
 File : 021a007

IDF : 1.0
 Time : 21-JAN-2019 11:59

Analyte	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	2.23	+/- 4.5s (0.075m)	2.155 - 2.305
C12 - n-Dodecane	3.447	+/- 4.5s (0.075m)	3.372 - 3.522
C14 - n-Tetradecane	4.503	+/- 4.5s (0.075m)	4.428 - 4.578
C16 - n-Hexadecane	5.435	+/- 4.5s (0.075m)	5.360 - 5.510
C18 - n-Octadecane	6.277	+/- 4.5s (0.075m)	6.202 - 6.352
C20 - n-Eicosane	7.042	+/- 4.5s (0.075m)	6.967 - 7.117
C22 - n-Docosane	7.743	+/- 4.5s (0.075m)	7.668 - 7.818
C24 - n-Tetracosane	8.392	+/- 4.5s (0.075m)	8.317 - 8.467
C28 - n-Octacosane	9.552	+/- 4.5s (0.075m)	9.477 - 9.627
C30 - n-Triacontane	10.075	+/- 4.5s (0.075m)	10.000 - 10.150
C32 - n-Dotriacontane	10.572	+/- 4.5s (0.075m)	10.497 - 10.647
C34 - n-Tetratriacontane	11.038	+/- 4.5s (0.075m)	10.963 - 11.113
C36 - n-Hexatriacontane	11.483	+/- 4.5s (0.075m)	11.408 - 11.558
C40 - n-Tetracontane	12.323	+/- 4.5s (0.075m)	12.248 - 12.398

Carbon Range	Range Start	Range Stop
JP-5 C10-C16	2.155	5.510
Diesel C10-C22	2.155	7.818
Diesel C10-C24	2.155	8.467
Diesel C10-C28	2.155	9.627
Diesel C12-C24	3.372	8.467
Diesel C12-C28	3.372	9.627
Diesel C16-C24	5.360	8.467
Motor Oil C22-C32	7.668	10.647
Motor Oil C24-C36	8.317	11.558
Motor Oil C28-C40	9.477	12.398
Bunker C C10-C40	2.155	12.398
Bunker C C12-C40	3.372	12.398
Diesel C10-C14	2.155	4.578
Diesel C14-C24	4.428	8.467

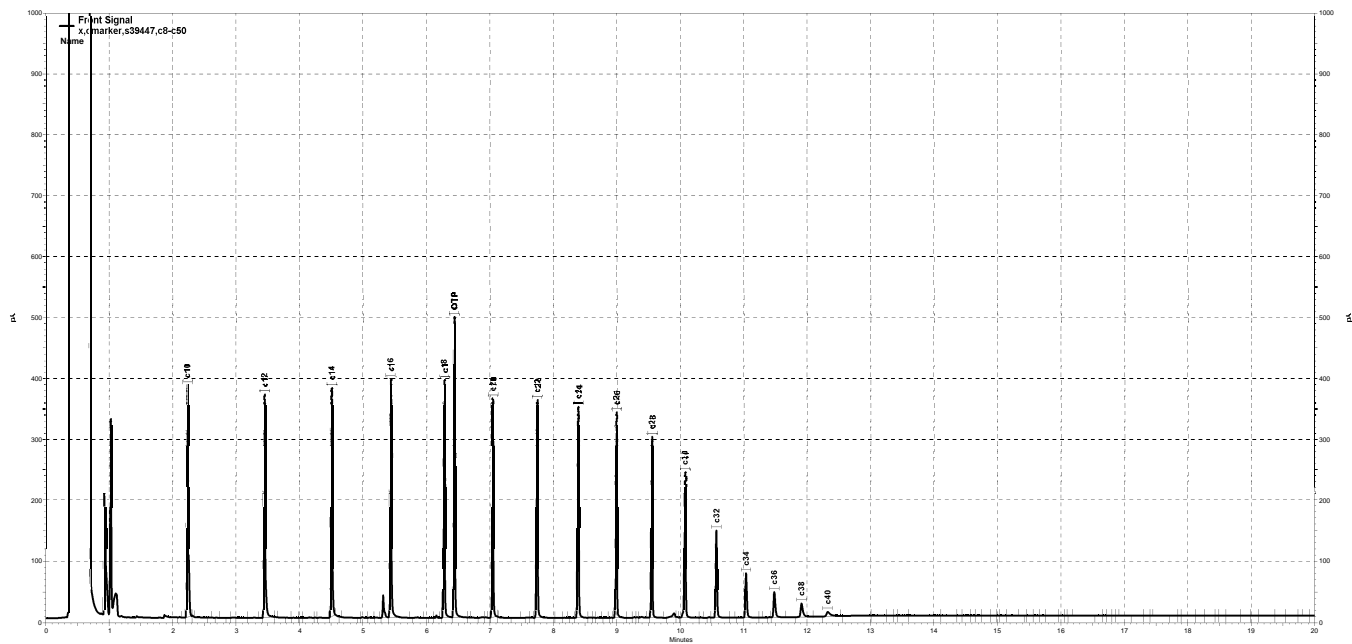
EZChrom method retention times successfully validated.

Analyst: TKY

Date: 01/21/19

Reviewer: EAH

Date: 01/21/19



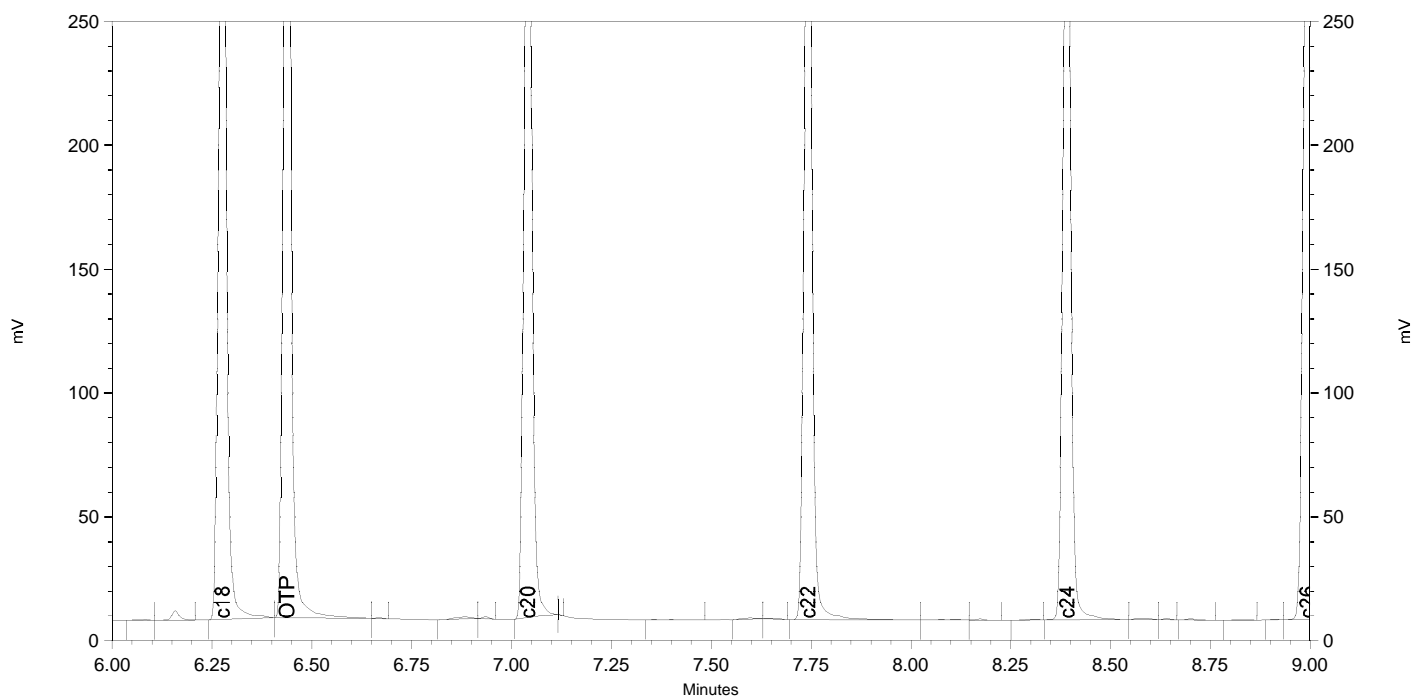
— G:\ezchrom\Projects\GC27\Data\2019\021a007.dat, Front Signal

Sample Name: x,cmarker,s39447,c8-c50
Data File: G:\ezchrom\Projects\GC27\Data\2019\021a007.dat
Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\021.seq
Software Version 3.3.1 SP1
Method Name: G:\ezchrom\Projects\GC27\Method\CM_021.met
Run Date: 1/21/2019 11:59:54 AM
Analysis Date: 1/21/2019 12:47:49 PM
Instrument: GC27 (Offline)A Vial: 57 Operator: teh
Sample Amount: 1

GC27a

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	2.230	3923537	0.000
c12	3.447	3960812	0.000
c14	4.503	3762975	0.000
c16	5.435	3926594	0.000
c18	6.277	3808915	0.000
OTP	6.438	4535159	0.000
c20	7.042	3673744	0.000
c22	7.743	3706537	0.000
c24	8.392	3517377	0.000
c26	8.993	3328141	0.000
c28	9.552	3061628	0.000
c30	10.075	2630157	0.000
c32	10.572	1650713	0.000
c34	11.038	936486	0.000
c36	11.483	637468	0.000
c38	11.913	432022	0.000
c40	12.323	242256	0.000



Sample Name: x,cmarker,s39447,c8-c50
 Data File: G:\ezchrom\Projects\GC27\Data\2019\021a007.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\021.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_014.met
 Run Date: 1/21/2019 11:59:54 AM
 Analysis Date: 1/21/2019 12:48:18 PM
 Instrument: GC27 (Offline)A Vial: 57 Operator: teh
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		16708630	35.275
DSL:10-14		12182637	82.773
DSL:10-22		32990864	90.648
DSL:10-24		36556550	98.693
DSL:10-28		43143161	115.771
DSL:12-24		32343206	102.487
DSL:12-28		38929817	122.483
DSL:14-24		28136888	118.048
DSL:16-24		23868333	149.179
MO:22-32		18449935	79.339
MO:24-36		16296413	67.884
MO:28-40		10091911	65.948
BUNKC:10-40		50145644	248.159
BUNKC:12-40		45932300	234.470

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

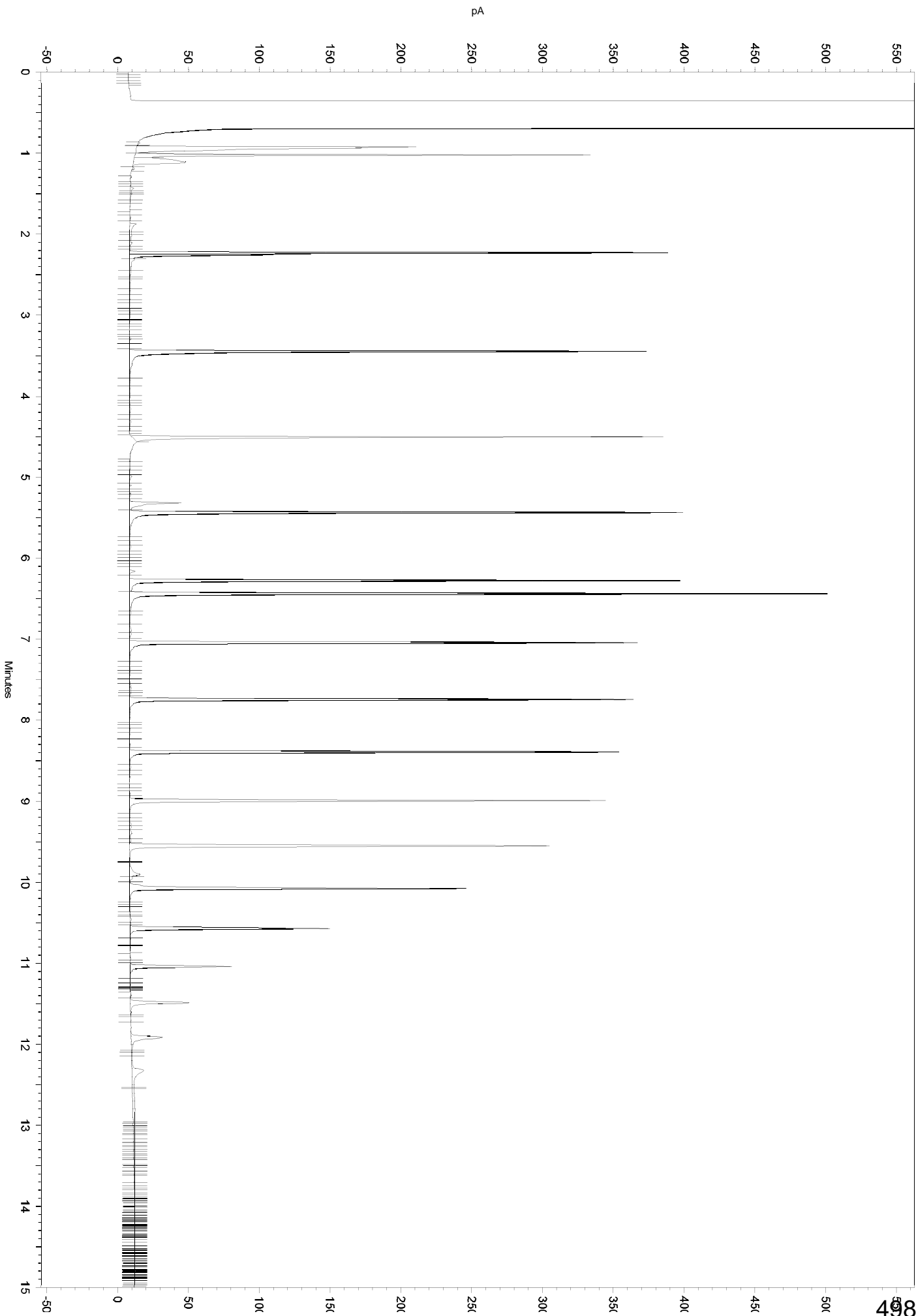
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0       0
Yes Threshold           0       0      10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\021a007.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Manual Peak         4.474  4.563   0
  
```

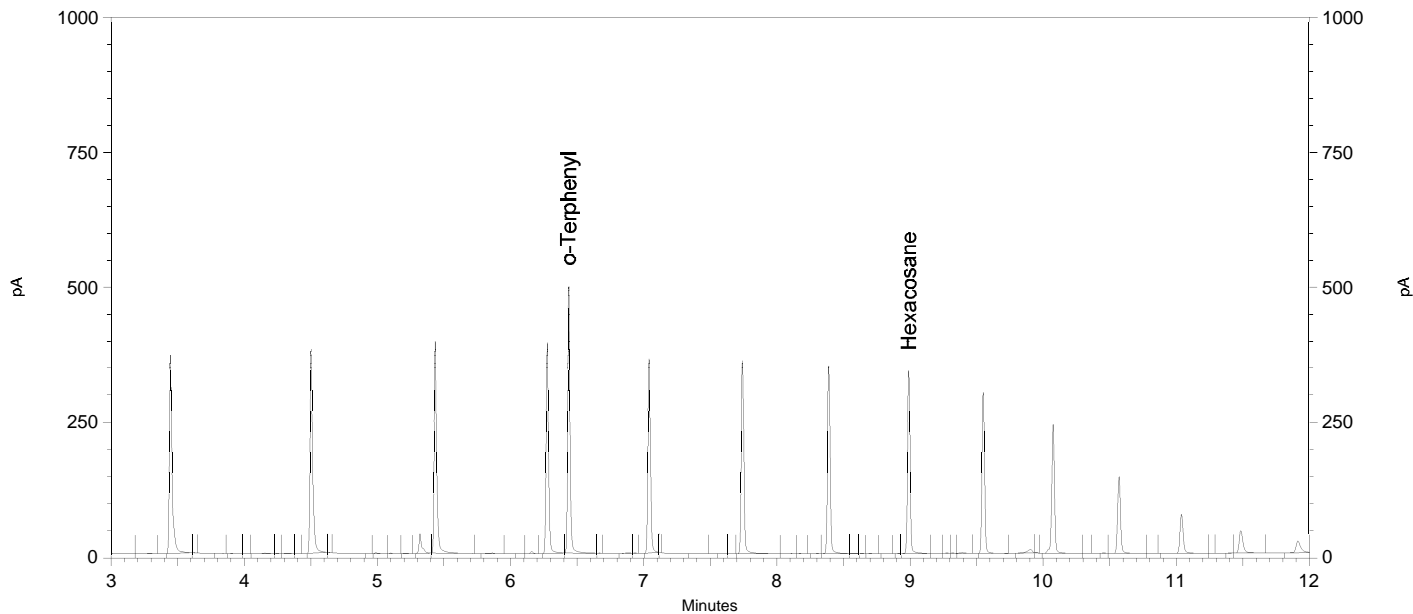
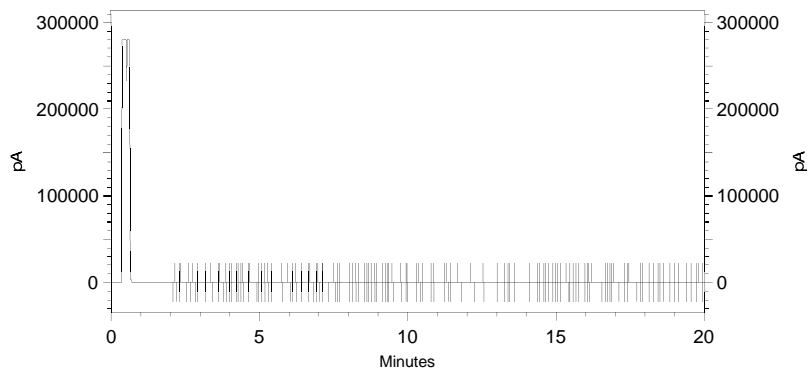
Sample Name: x,cmarker,s39447,c8-c50
 Data File: G:\ezchrom\Projects\GC27\Data\2019\021a007.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\021.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_014.met
 Run Date: 1/21/2019 11:59:54 AM
 Analysis Date: 1/21/2019 12:19:56 PM
 Instrument: GC27A Vial: 57 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.438	4535159	10.562
Hexacosane	8.993	3328141	9.634



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

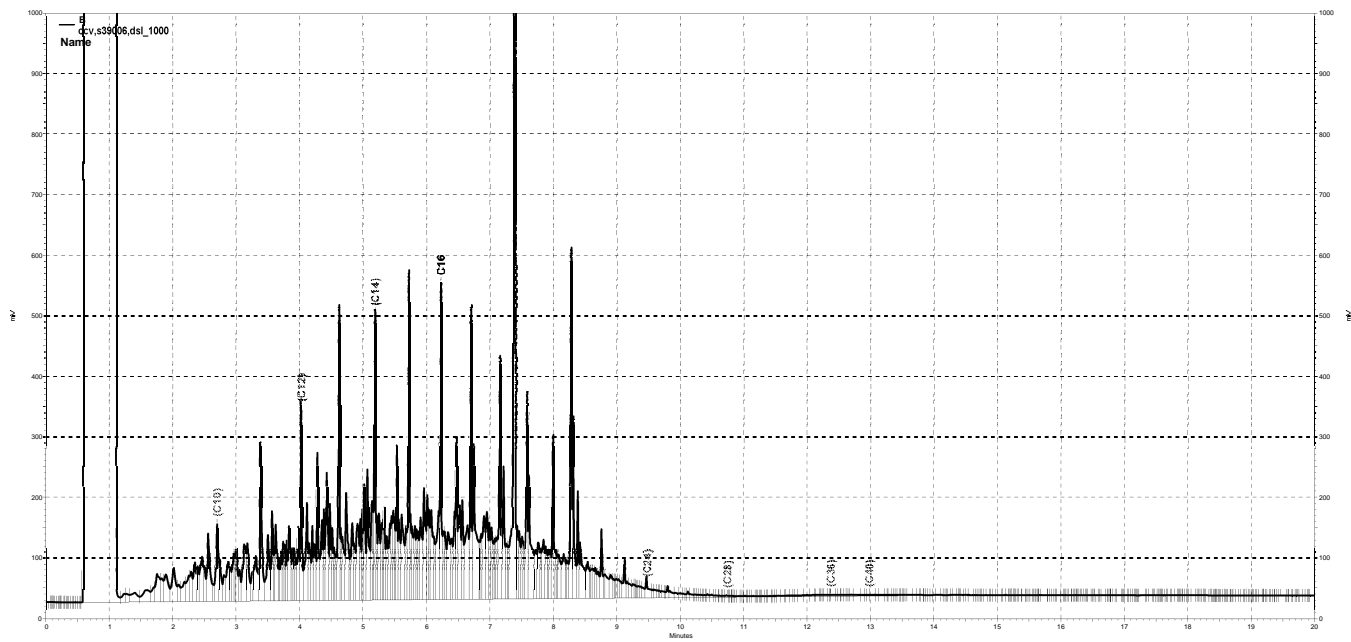
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10005\021a007.dat_152A.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Continuing Calibration Verification Raw Data



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b082, B

Sample Name: **ccv,s39006,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b082
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/29/2019 11:01:25 PM
 Analysis Date: 1/30/2019 9:39:26 AM
 Instrument: GC14B Vial: 82 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	23090994	514.361
DSL:10-14	14893641	997.957
DSL:10-22	41271652	1010.198
DSL:10-24	42237972	1003.759
DSL:10-28	42702176	998.211
DSL:12-24	36770196	999.014
DSL:12-28	37234400	992.775
DSL:14-24	28917676	1008.524
DSL:16-24	20721356	1035.525
MO:22-32	2023273	67.134
MO:24-36	870981	27.535
MO:28-40	380330	18.467
BUNKC:10-40	43063872	2098.662
BUNKC:12-40	37596096	1886.376

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

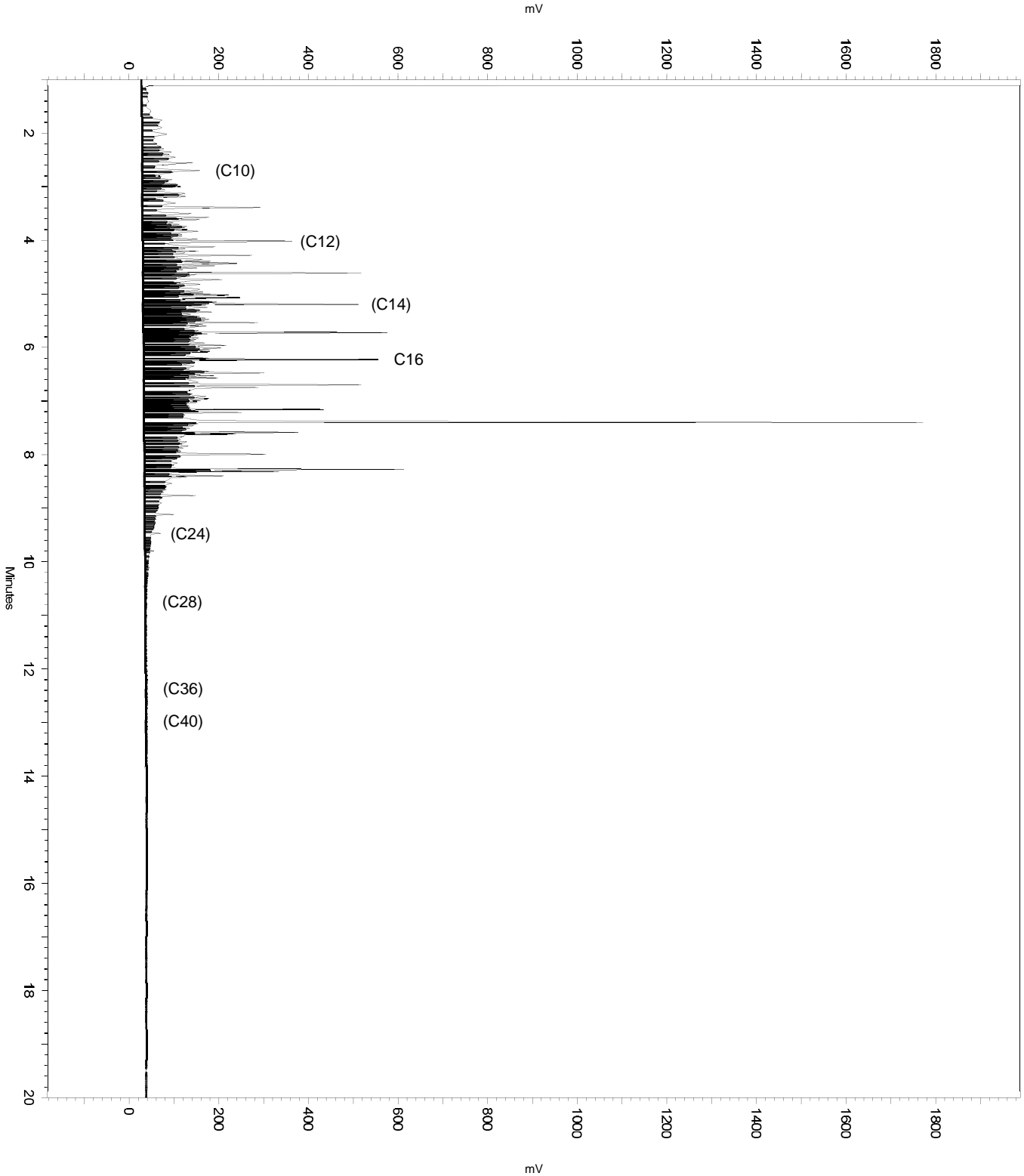
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b082

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	7.303	7.483	0
No	Split Peak	7.347	0	0
No	Split Peak	7.416	0	0

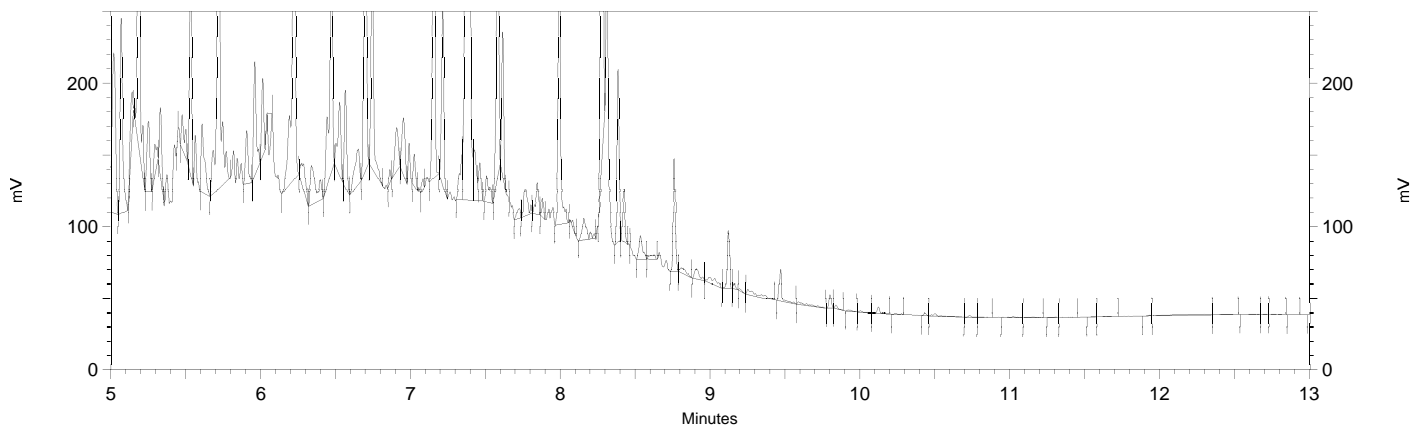
Sample Name: ccv,s39006,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b082
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/29/2019 11:01:25 PM
Analysis Date: 1/30/2019 9:39:26 AM
Instrument: GC14B Vial: 82 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39006,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b082
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/29/2019 11:01:25 PM
 Analysis Date: 1/30/2019 9:37:39 AM
 Instrument: GC14B Vial: 82 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.395	2471459	47.310
Hexacosane	10.123	6881	0.164



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

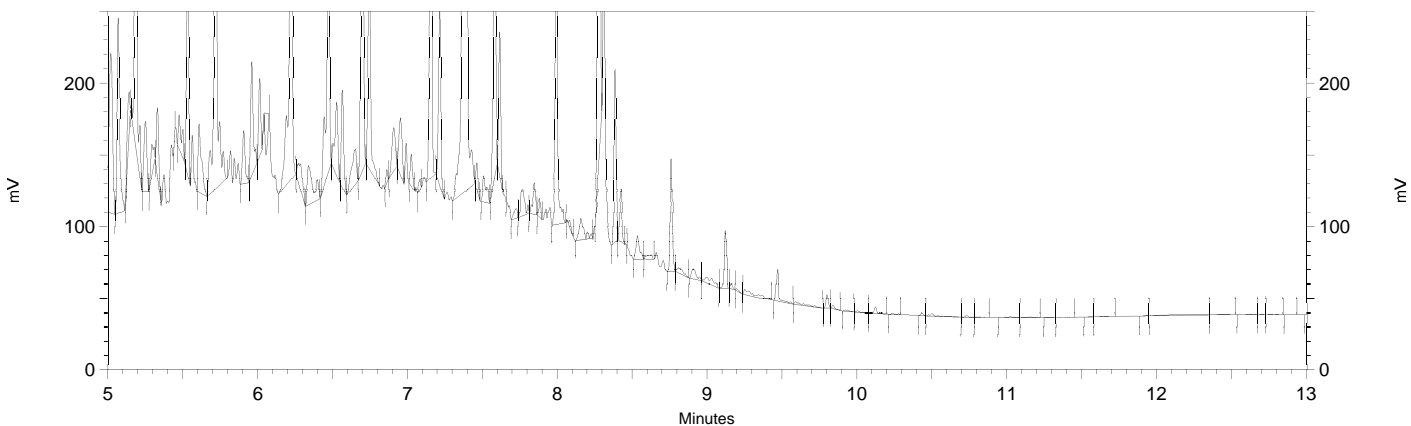
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b082
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Manual Baseline     7.303     7.483     0
Yes Split Peak          7.347     0          0
Yes Split Peak          7.416     0          0
  
```

Sample Name: **ccv,s39006,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b082
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/29/2019 11:01:25 PM
 Analysis Date: 1/30/2019 9:37:00 AM
 Instrument: GC14B Vial: 82 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.395	2517045	48.182
Hexacosane	10.123	6881	0.164



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

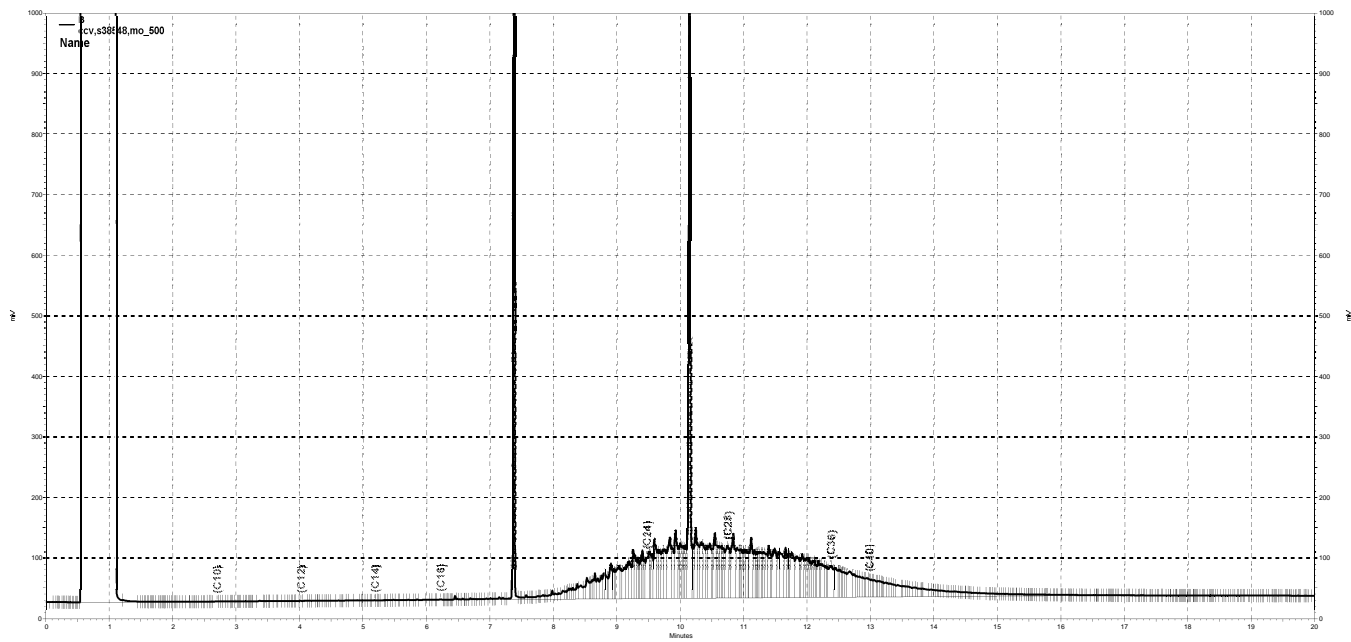
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b082

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b083, B

Sample Name: ccv,s38548,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b083
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/29/2019 11:28:12 PM
 Analysis Date: 1/30/2019 9:40:08 AM
 Instrument: GC14B Vial: 83 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	50373	1.122
DSL:10-14	22696	1.521
DSL:10-22	3808814	93.228
DSL:10-24	6166586	146.545
DSL:10-28	14222732	332.472
DSL:12-24	6158859	167.331
DSL:12-28	14215005	379.013
DSL:14-24	6146406	214.360
DSL:16-24	6122536	305.966
MO:22-32	15906909	527.808
MO:24-36	16810476	531.449
MO:28-40	10019238	486.492
BUNKC:10-40	23669640	1153.510
BUNKC:12-40	23661916	1187.232

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

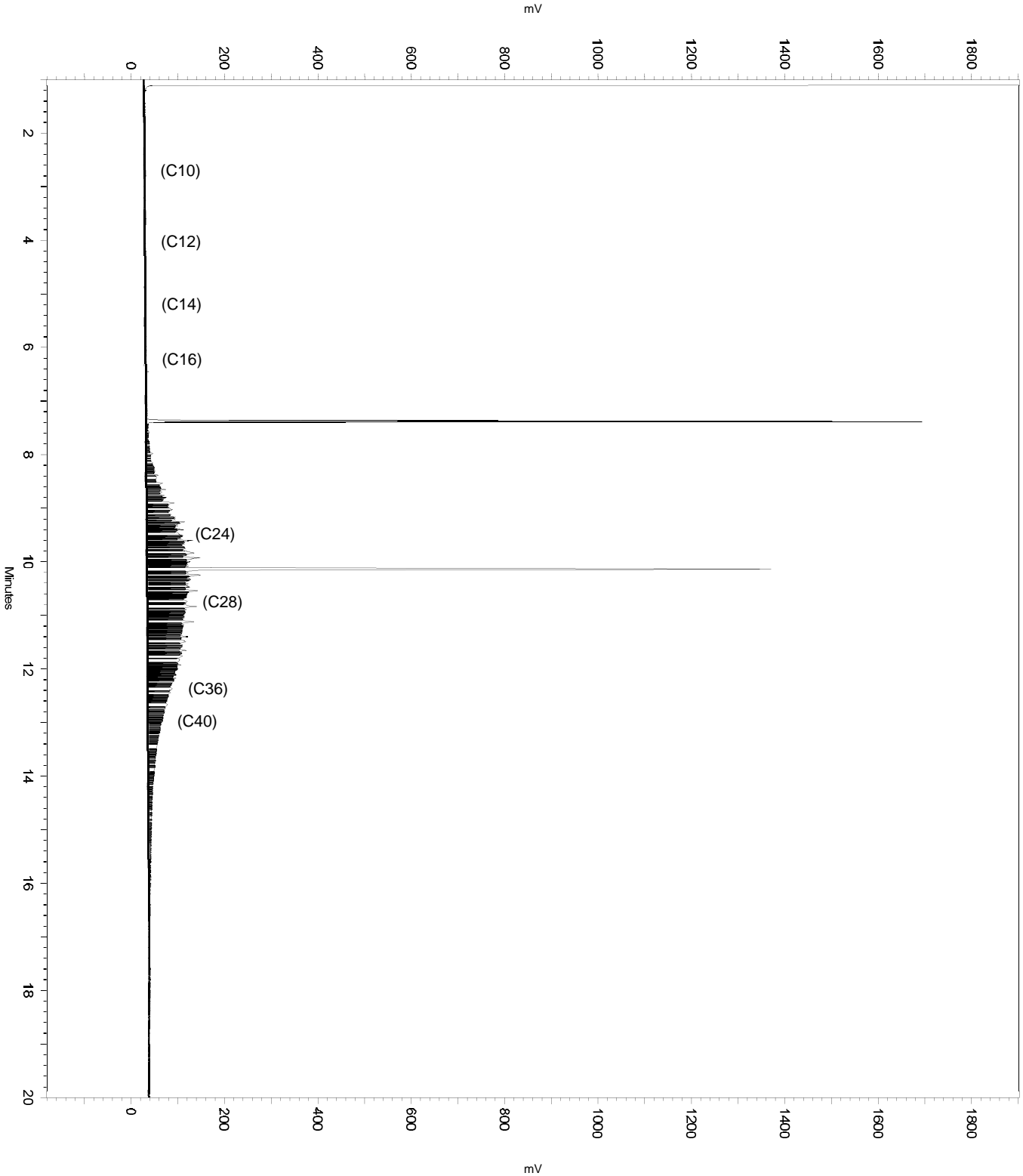
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold           0          0         10
Yes Force Peak Stop    2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b083
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Split Peak          7.409     0          0
No Manual Peak         10.103    10.191     0
  
```

Sample Name: ccv,s38548,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b083
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/29/2019 11:28:12 PM
Analysis Date: 1/30/2019 9:40:08 AM
Instrument: GC14B Vial: 83 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

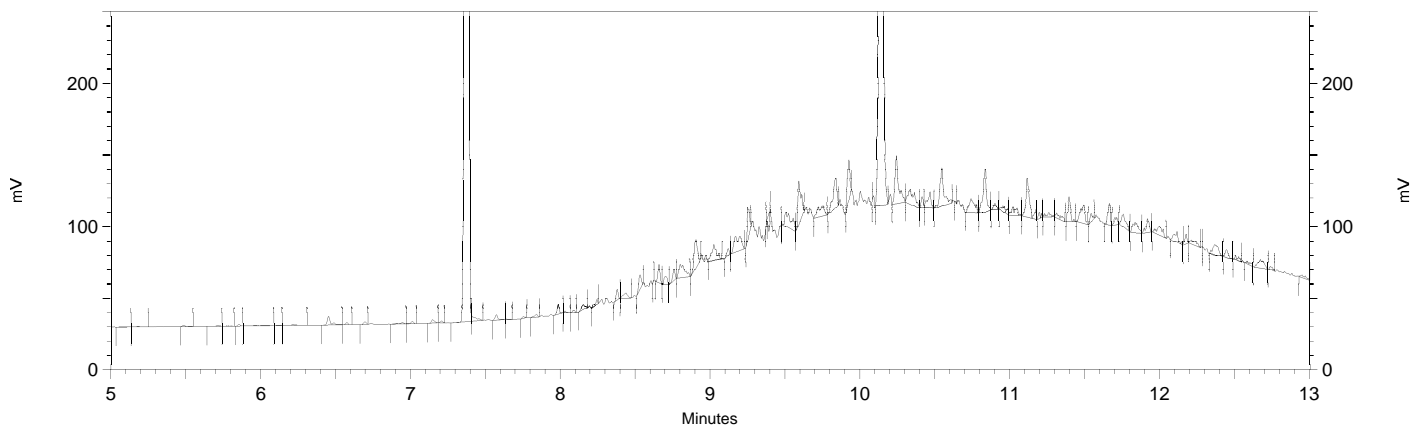


Sample Name: **ccv,s38548,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b083
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/29/2019 11:28:12 PM
 Analysis Date: 1/30/2019 9:38:25 AM
 Instrument: GC14B Vial: 83 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.387	2398752	45.918
Hexacosane	10.148	1695915	40.297



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

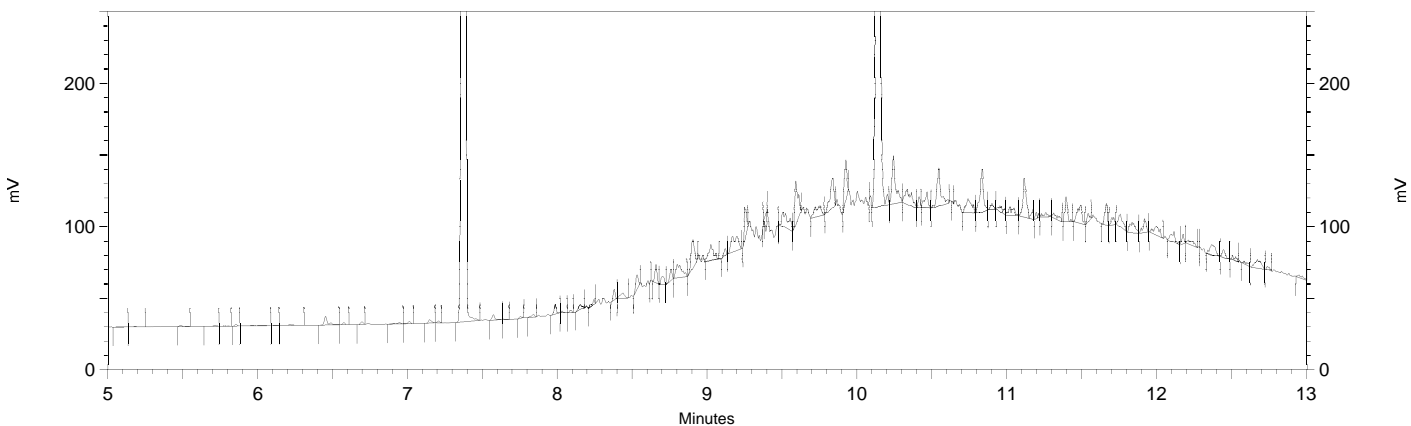
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b083

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	7.409	0	0
Yes	Manual Peak	10.103	10.191	0
No	Split Peak	10.166	0	0

Sample Name: **ccv,s38548,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b083
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/29/2019 11:28:12 PM
 Analysis Date: 1/30/2019 9:37:50 AM
 Instrument: GC14B Vial: 83 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.387	2406656	46.069
Hexacosane	10.148	1707660	40.576



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

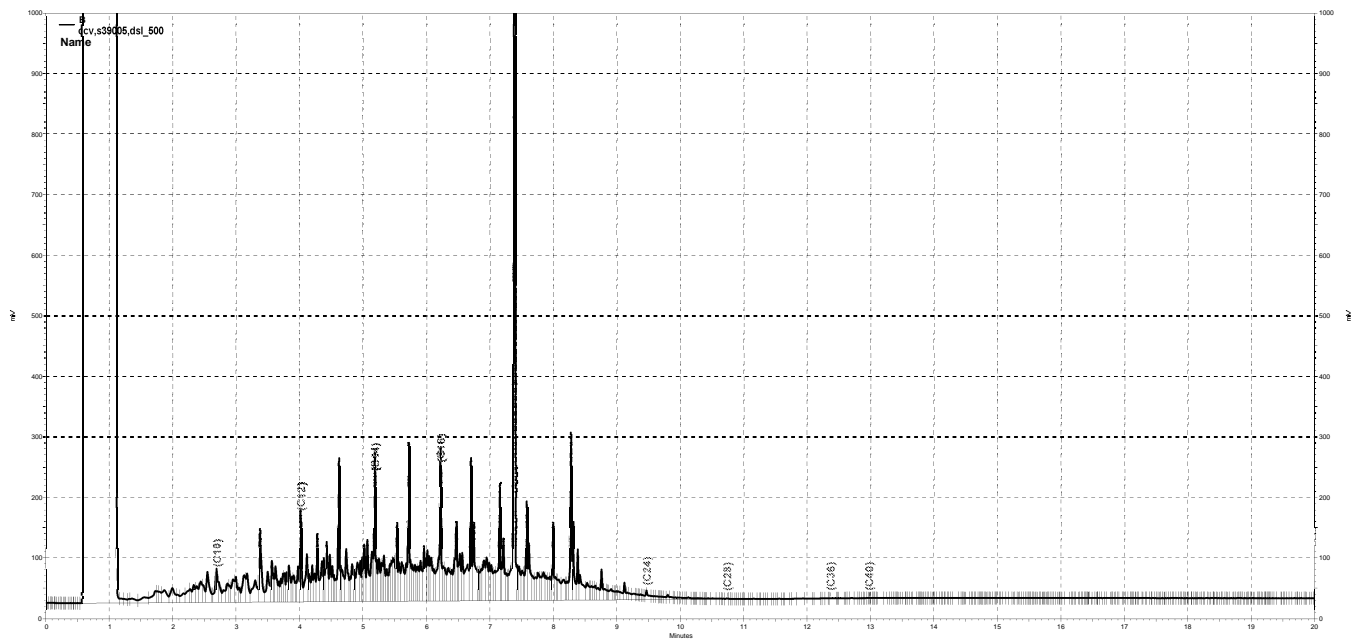
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0   0.2
Yes Threshold            0       0  100
Yes Integration Off      0       2    0
Yes Valley to Valley     0      20    0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b083
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b096, B

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b096
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 5:21:48 AM
 Analysis Date: 1/30/2019 9:42:43 AM
 Instrument: GC14B Vial: 96 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	11230546	250.165
DSL:10-14	7237677	484.965
DSL:10-22	21000116	514.015
DSL:10-24	21460902	510.005
DSL:10-28	21661640	506.365
DSL:12-24	18810530	511.066
DSL:12-28	19011268	506.894
DSL:14-24	14986916	522.679
DSL:16-24	11004553	549.939
MO:22-32	883149	29.304
MO:24-36	292862	9.259
MO:28-40	48114	2.336
BUNKC:10-40	21701380	1057.588
BUNKC:12-40	19051008	955.880

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

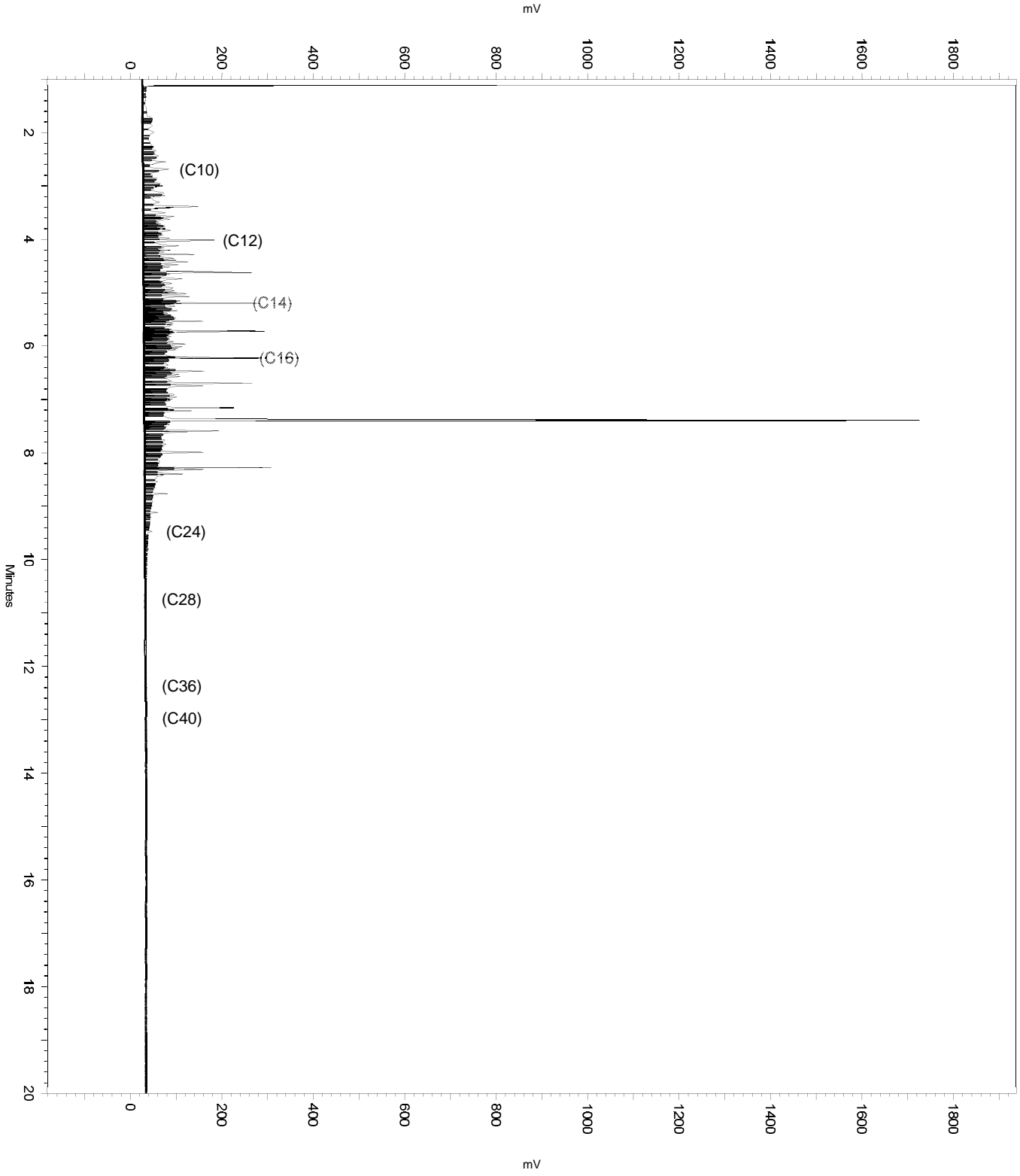
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b096

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	7.309	7.489	0
No	Split Peak	7.423	0	0

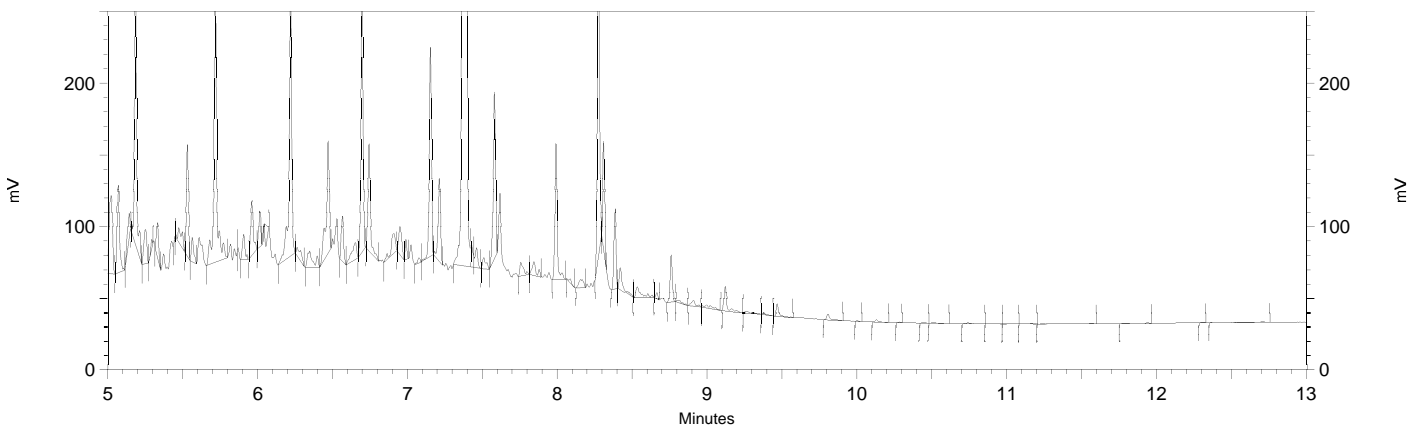
Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b096
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 5:21:48 AM
Analysis Date: 1/30/2019 9:42:43 AM
Instrument: GC14B Vial: 96 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b096
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 5:21:48 AM
 Analysis Date: 1/30/2019 9:41:32 AM
 Instrument: GC14B Vial: 96 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.393	2333990	44.678
Hexacosane	10.128	2515	0.060



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

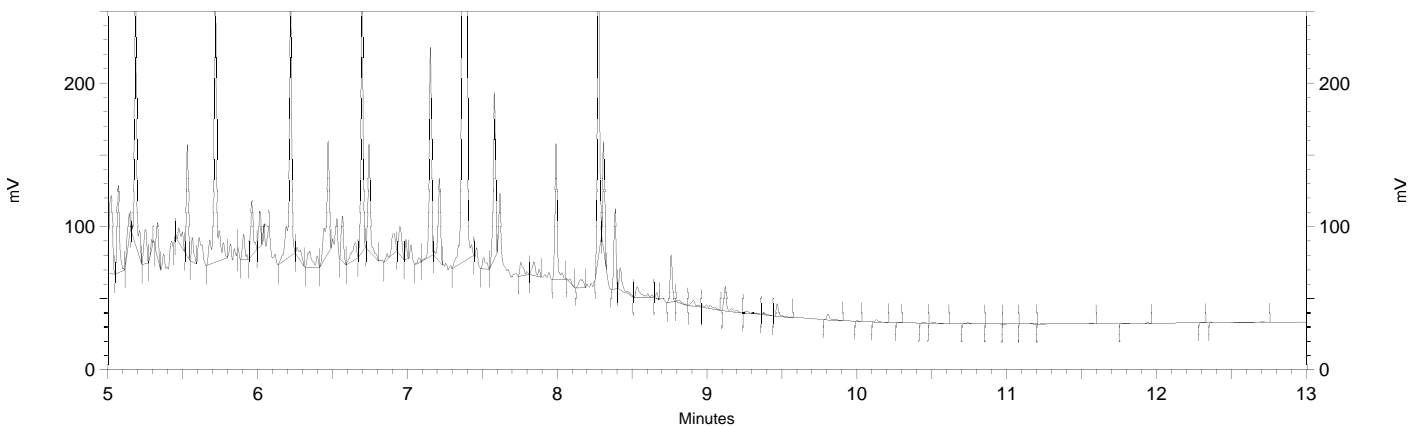
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b096

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	7.309	7.489	0
Yes	Split Peak	7.423	0	0

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b096
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 5:21:48 AM
 Analysis Date: 1/30/2019 9:41:18 AM
 Instrument: GC14B Vial: 96 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.393	2326105	44.527
Hexacosane	10.128	2515	0.060



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b096
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

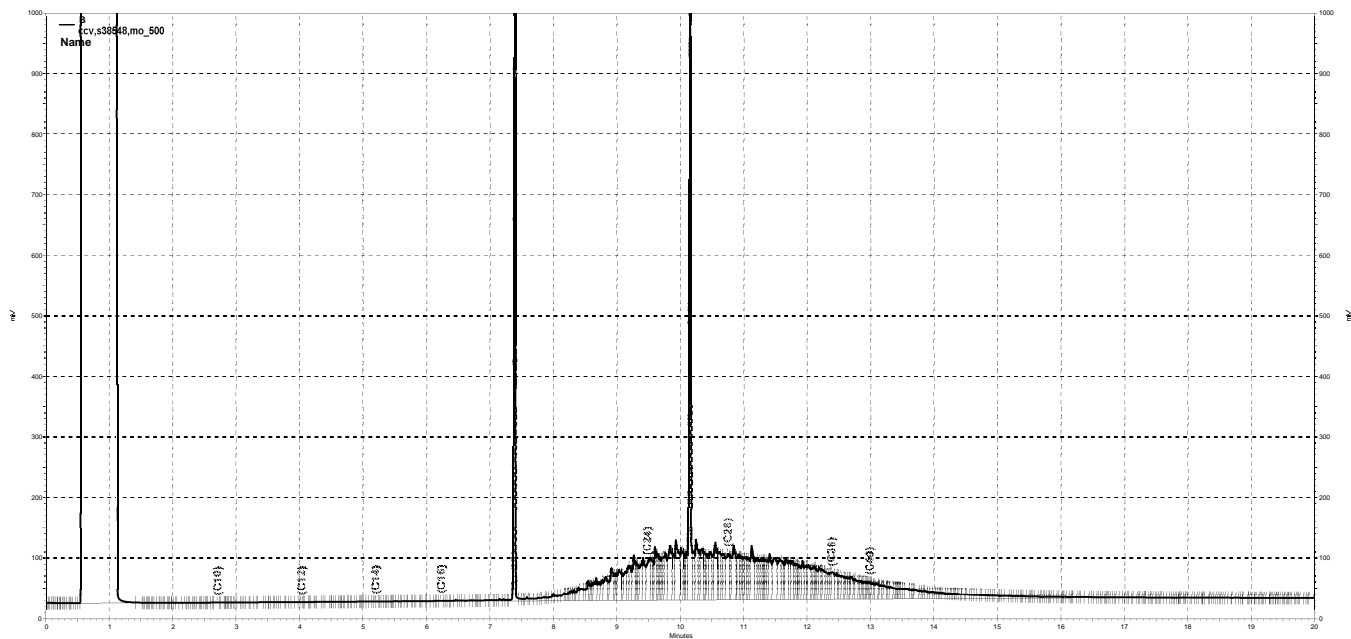
Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229040831097 File : 028_097 Time : 30-JAN-2019 05:49
 Standards: S38548

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229015071001	10-JAN-2019	31631	27248	500.0	430.7	mg/L	-14	15	
o-Terphenyl	B	229016966001	11-JAN-2019	52240	43793	50.00	41.92	mg/L	-16	15	c-

VQ 01/30/19 : Corrected automatically drawn baseline.

Analyst: VO Date: 01/30/19 Reviewer: EAH Date: 01/30/19

--low bias c=CCV



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b097, B

Sample Name: ccv,s38548,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b097
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 5:49:12 AM
 Analysis Date: 1/30/2019 9:44:05 AM
 Instrument: GC14B Vial: 97 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	109871	2.447
DSL:10-14	53015	3.552
DSL:10-22	3641752	89.138
DSL:10-24	5890636	139.987
DSL:10-28	13102417	306.284
DSL:12-24	5875066	159.620
DSL:12-28	13086847	348.933
DSL:14-24	5844630	203.836
DSL:16-24	5792915	289.494
MO:22-32	14198838	471.132
MO:24-36	15087989	476.994
MO:28-40	9309982	452.053
BUNKC:10-40	21818968	1063.320
BUNKC:12-40	21803400	1093.981

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

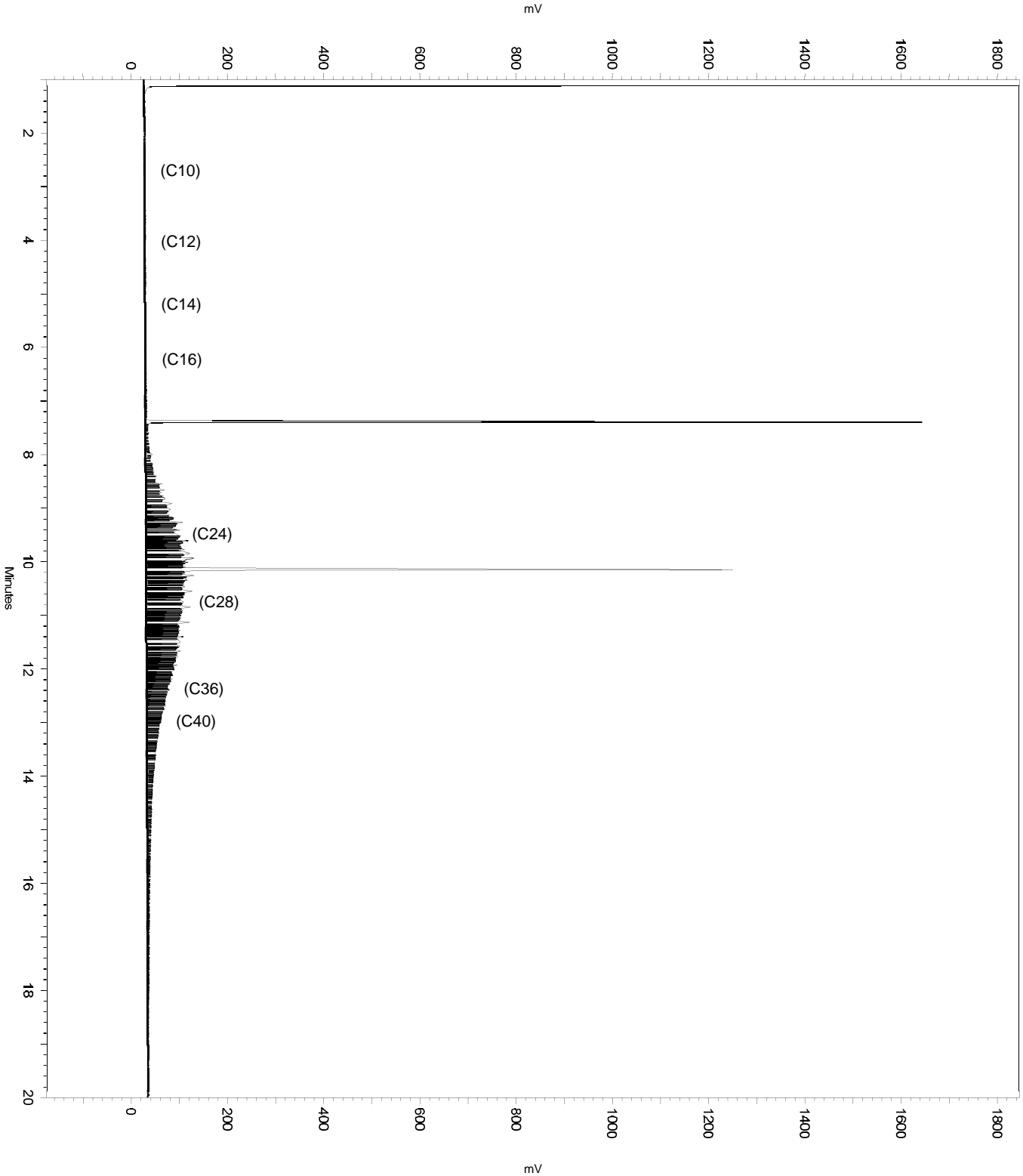
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b097

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Split Peak	7.454	0	0
No	Manual Peak	10.113	10.198	0
Yes	Move BL Stop	17.382	19.465	0

Sample Name: ccv,s38548,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b097
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 5:49:12 AM
Analysis Date: 1/30/2019 9:44:05 AM
Instrument: GC14B Vial: 97 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s38548,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b097
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 5:49:12 AM
 Analysis Date: 1/30/2019 9:43:05 AM
 Instrument: GC14B Vial: 97 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	65071	1.449
DSL:10-14	29741	1.993
DSL:10-22	3517129	86.088
DSL:10-24	5736673	136.328
DSL:10-28	12889330	301.303
DSL:12-24	5727096	155.600
DSL:12-28	12879753	343.411
DSL:14-24	5711027	199.176
DSL:16-24	5679672	283.835
MO:22-32	14043318	465.972
MO:24-36	14889410	470.716
MO:28-40	9043446	439.111
BUNKC:10-40	21346256	1040.282
BUNKC:12-40	21336680	1070.563

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

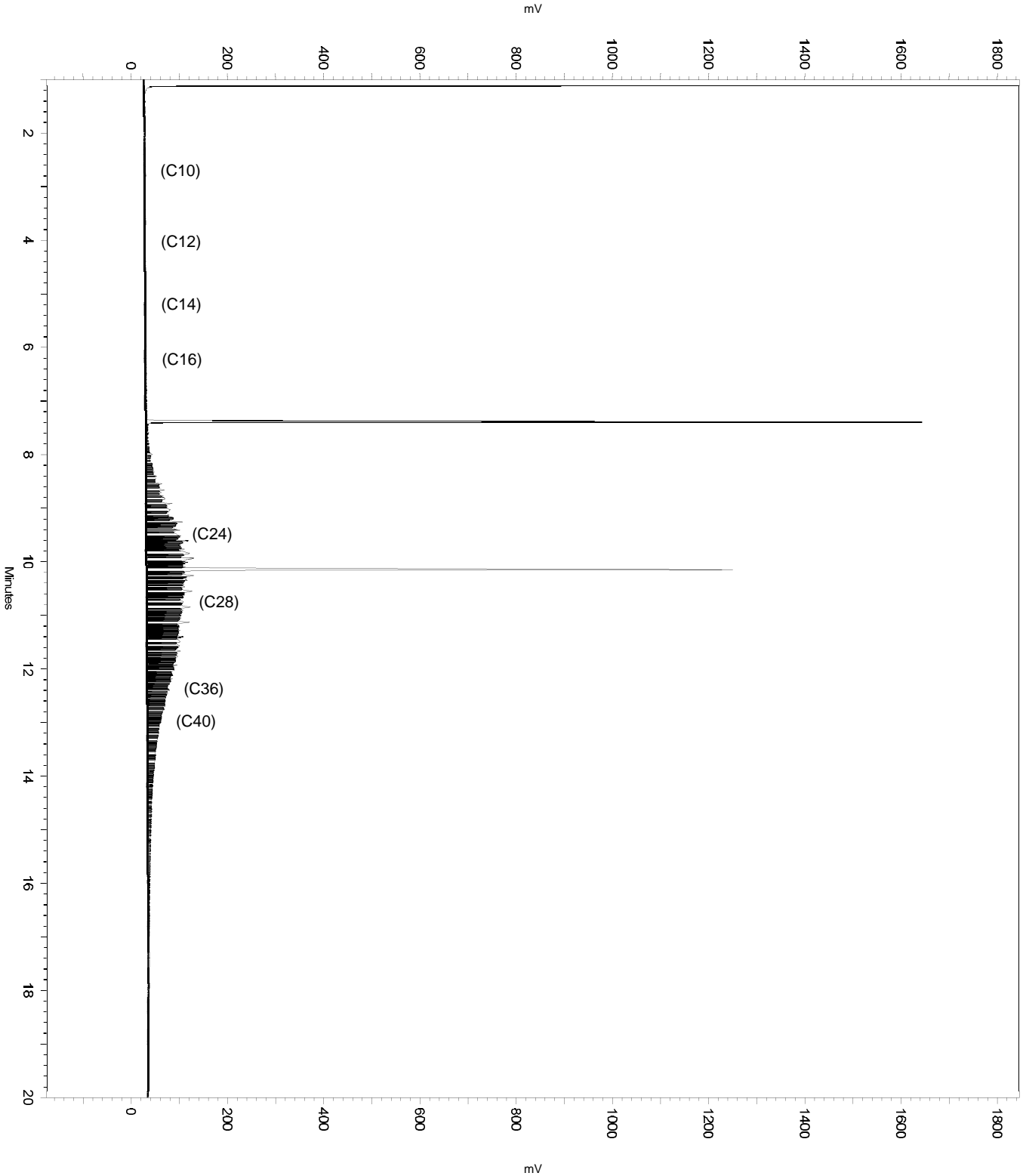
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b097

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Split Peak	7.454	0	0
No	Manual Peak	10.113	10.198	0

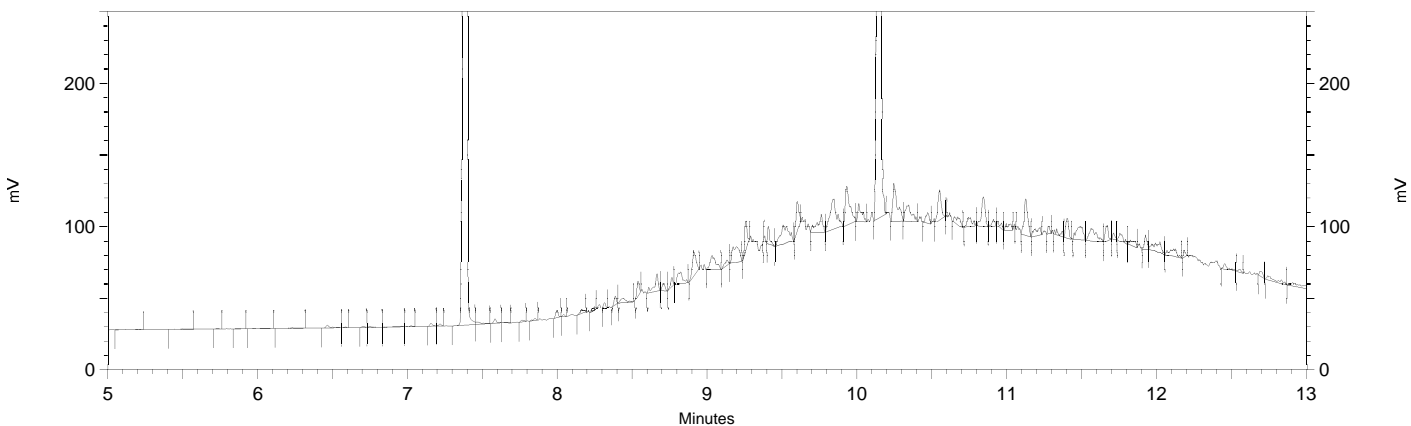
Sample Name: ccv,s38548,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b097
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 5:49:12 AM
Analysis Date: 1/30/2019 9:43:05 AM
Instrument: GC14B Vial: 97 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s38548,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b097
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028b097.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 5:49:12 AM
 Analysis Date: 1/30/2019 9:42:00 AM
 Instrument: GC14B Vial: 97 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.395	2189641	41.915
Hexacosane	10.155	1463754	34.781



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

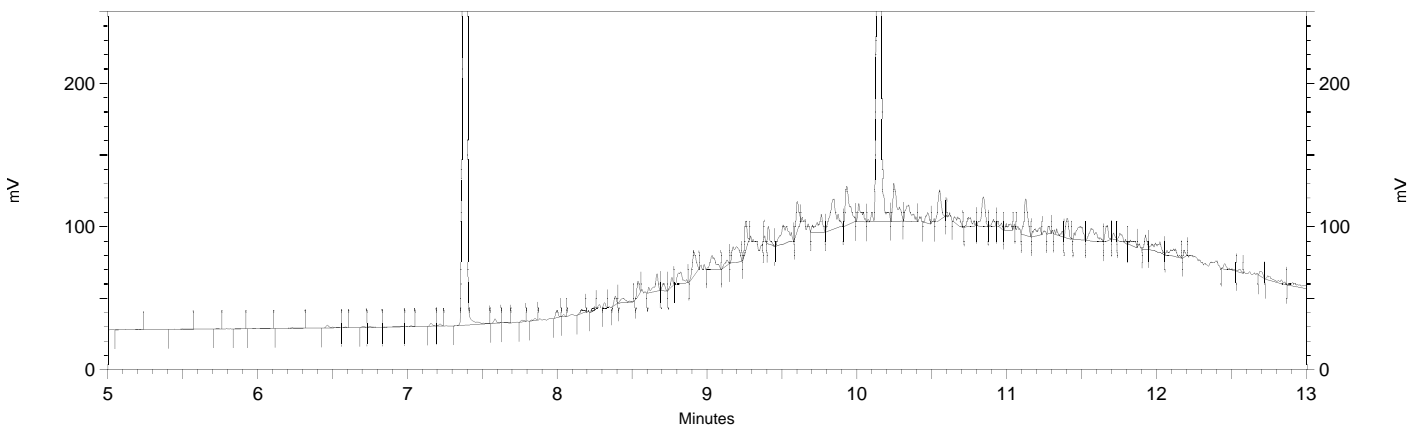
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b097

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	7.454	0	0
Yes	Manual Peak	10.113	10.198	0

Sample Name: **ccv,s38548,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b097
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028b097.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 5:49:12 AM
 Analysis Date: 1/30/2019 9:41:40 AM
 Instrument: GC14B Vial: 97 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.395	2194120	42.001
Hexacosane	10.155	1495291	35.530



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

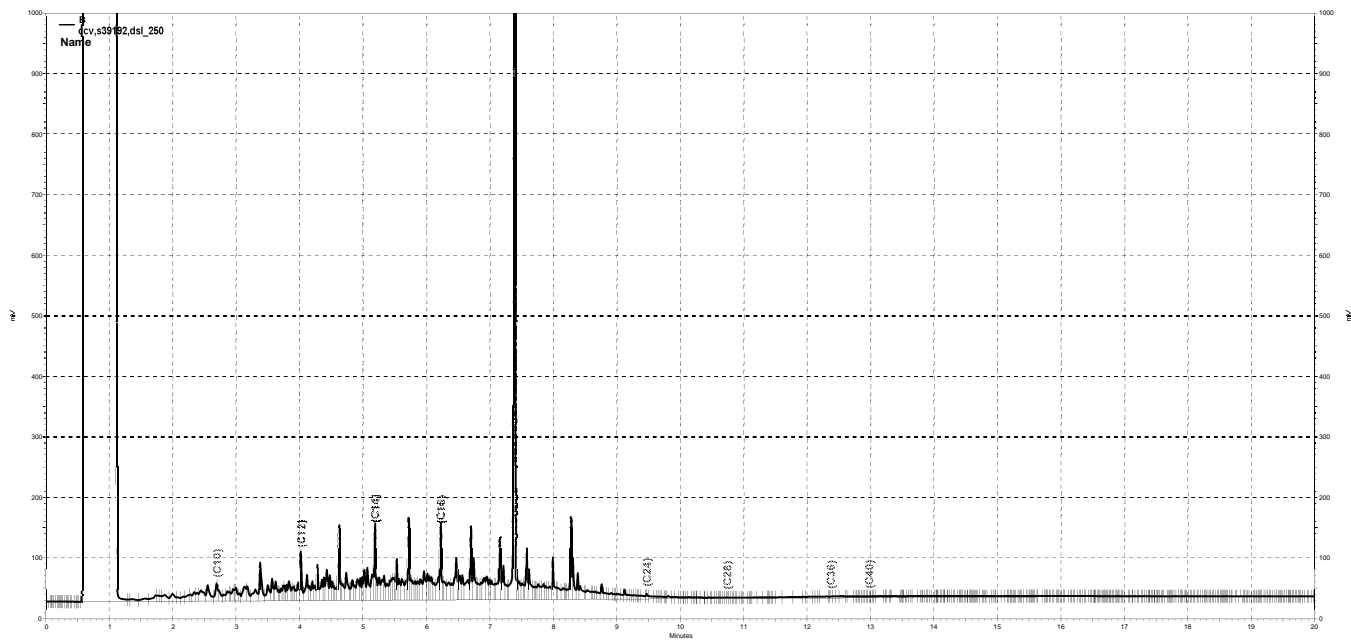
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b097
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b108, B

Sample Name: **ccv,s39192,dsi_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b108
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 10:50:47 AM
 Analysis Date: 1/30/2019 11:56:16 AM
 Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	5945410	132.437
DSL:10-14	3821011	256.029
DSL:10-22	12170033	297.883
DSL:10-24	12467911	296.292
DSL:10-28	12647603	295.652
DSL:12-24	11085290	301.178
DSL:12-28	11264982	300.357
DSL:14-24	9054946	315.798
DSL:16-24	6937950	346.716
MO:22-32	690149	22.900
MO:24-36	487713	15.419
MO:28-40	496859	24.125
BUNKC:10-40	13129456	639.847
BUNKC:12-40	11746835	589.395

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

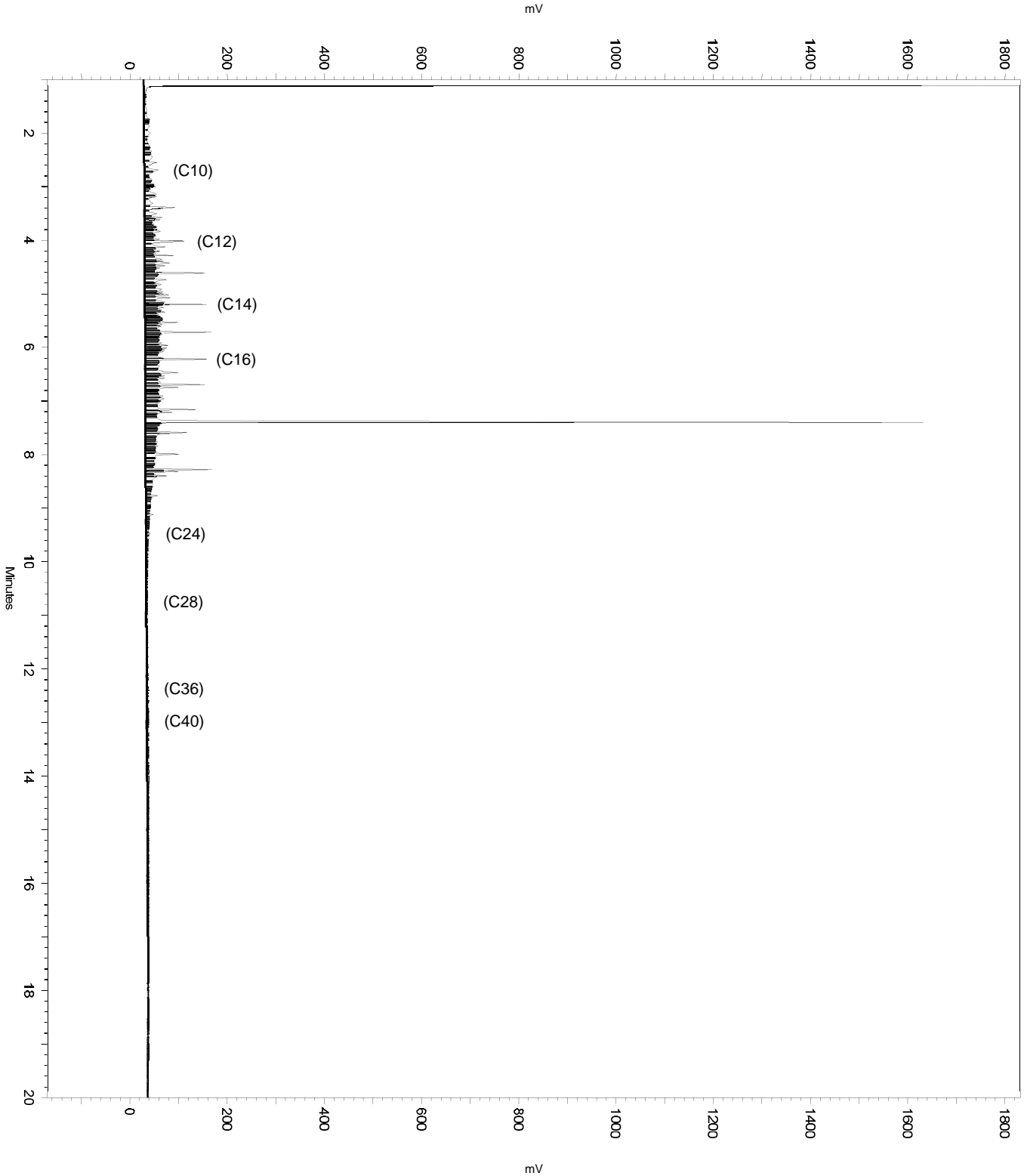
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b108

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.273	7.491	0
No	Split Peak	7.342	0	0
No	Split Peak	7.418	0	0
Yes	Move BL Stop	11.207	17.967	0

Sample Name: ccv,s39192,dsl_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b108
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 10:50:47 AM
Analysis Date: 1/30/2019 11:56:16 AM
Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39192,dsl_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b108
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 10:50:47 AM
 Analysis Date: 1/30/2019 11:55:59 AM
 Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	5828300	129.828
DSL:10-14	3748246	251.153
DSL:10-22	11909791	291.514
DSL:10-24	12155442	288.867
DSL:10-28	12237959	286.076
DSL:12-24	10802063	293.483
DSL:12-28	10884580	290.214
DSL:14-24	8809220	307.228
DSL:16-24	6734160	336.532
MO:22-32	431070	14.303
MO:24-36	145007	4.584
MO:28-40	47972	2.329
BUNKC:10-40	12283721	598.631
BUNKC:12-40	10930342	548.428

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

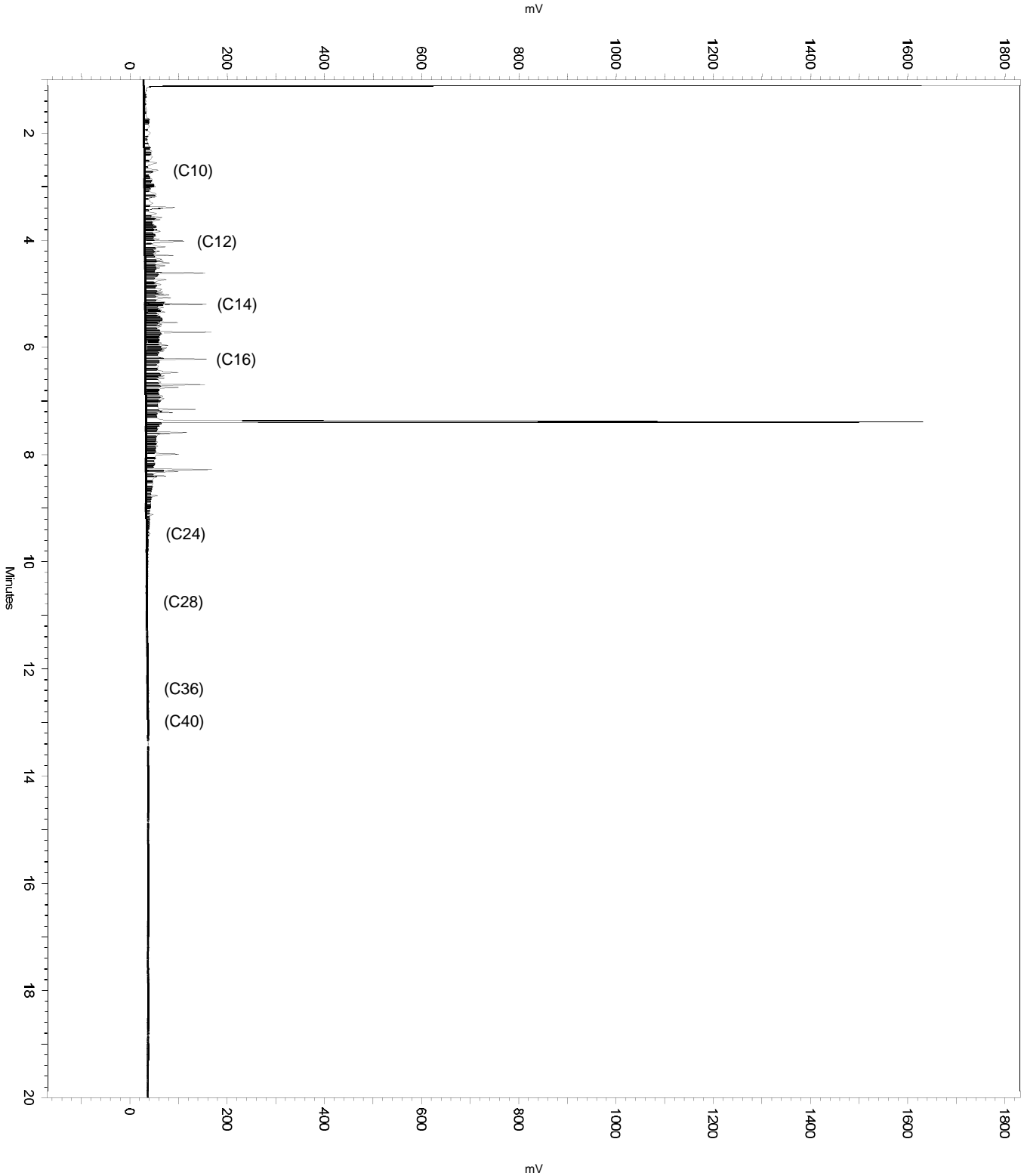
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b108

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.273	7.491	0
No	Split Peak	7.342	0	0
No	Split Peak	7.418	0	0

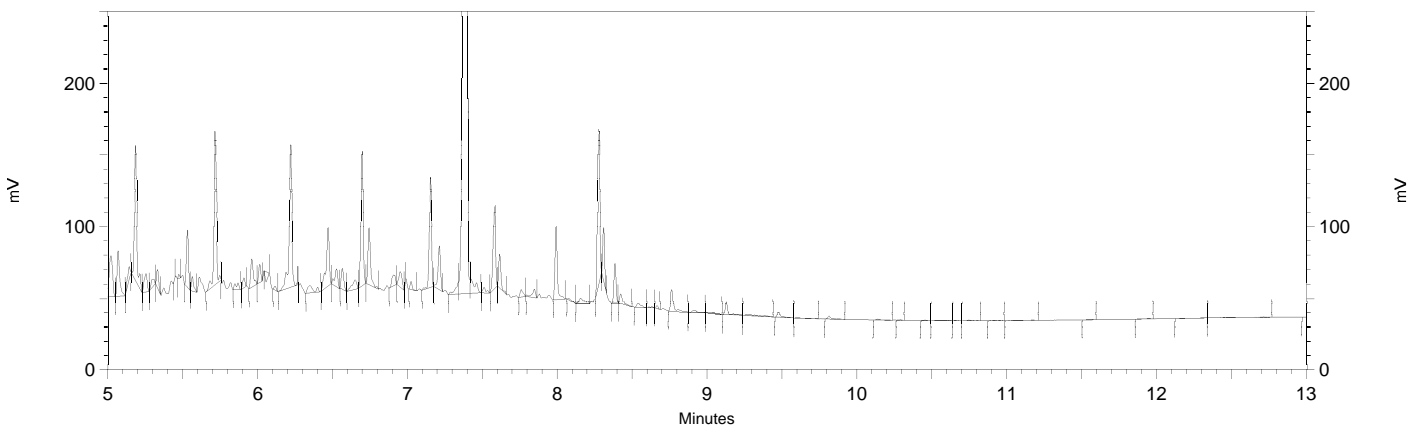
Sample Name: ccv,s39192,dsl_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b108
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 10:50:47 AM
Analysis Date: 1/30/2019 11:55:59 AM
Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39192,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b108
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 10:50:47 AM
 Analysis Date: 1/30/2019 11:54:23 AM
 Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.393	2222019	42.535
Hexacosane	10.137	1335	0.032



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

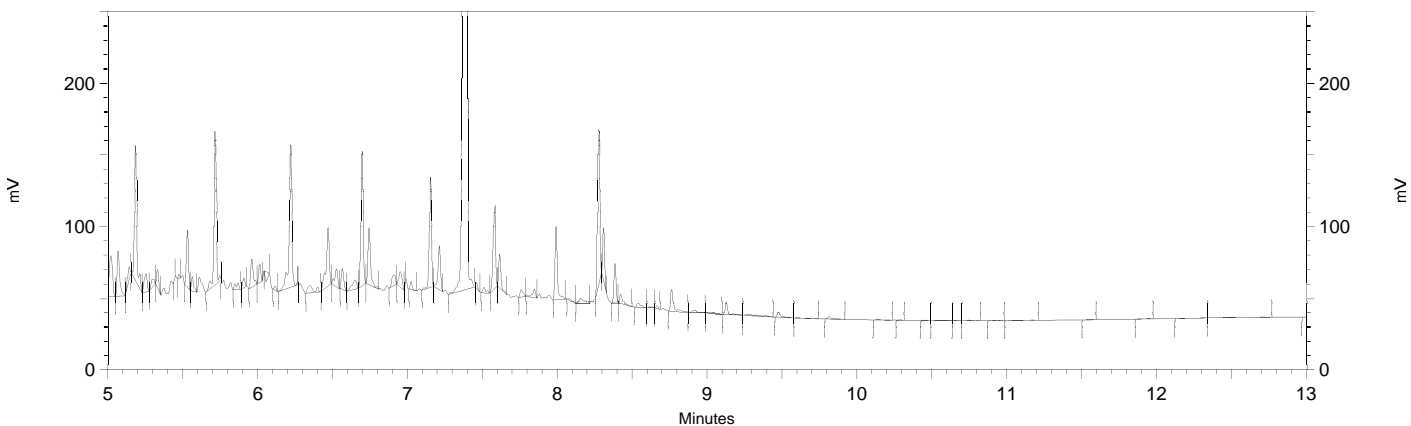
=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b108
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         7.273     7.491     0
Yes Split Peak          7.342     0          0
Yes Split Peak          7.418     0          0
  
```

Sample Name: **ccv,s39192,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b108
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 10:50:47 AM
 Analysis Date: 1/30/2019 11:53:56 AM
 Instrument: GC14B Vial: 8 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.393	2225420	42.600
Hexacosane	10.137	1335	0.032



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0   0.2
Yes Threshold            0       0  100
Yes Integration Off      0       2    0
Yes Valley to Valley     0      20    0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b108
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

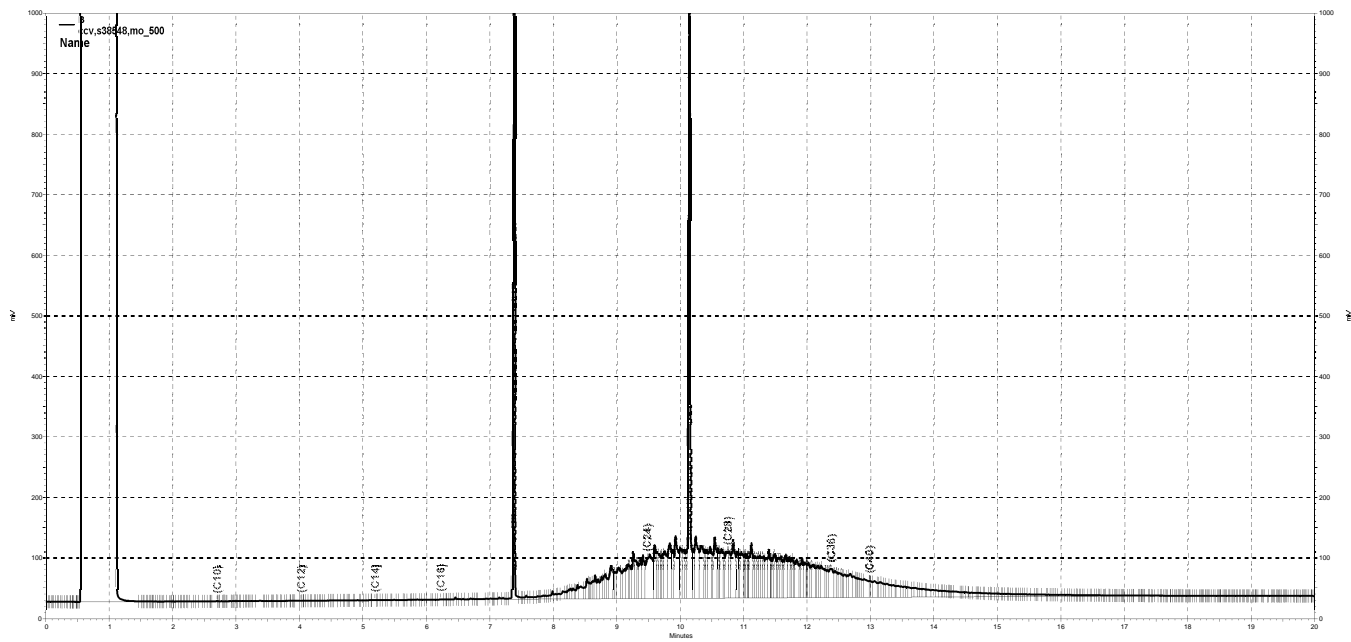
ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229040831109 File : 028_109 Time : 30-JAN-2019 11:18
 Standards: S38548

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229015071001	10-JAN-2019	31631	27437	500.0	433.7	mg/L	-13	15	
o-Terphenyl	B	229016966001	11-JAN-2019	52240	45288	50.00	43.35	mg/L	-13	15	

TKY 01/30/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 01/30/19 Reviewer: EAH Date: 01/30/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b109, B

Sample Name: ccv,s38548,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b109
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 11:18:13 AM
 Analysis Date: 1/30/2019 11:56:39 AM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	26714	0.595
DSL:10-14	17510	1.173
DSL:10-22	3504951	85.790
DSL:10-24	5873345	139.576
DSL:10-28	13092229	306.046
DSL:12-24	5863570	159.308
DSL:12-28	13082454	348.816
DSL:14-24	5856966	204.266
DSL:16-24	5848467	292.270
MO:22-32	14520667	481.811
MO:24-36	15231038	481.516
MO:28-40	9183937	445.933
BUNKC:10-40	21773012	1061.080
BUNKC:12-40	21763236	1091.966

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

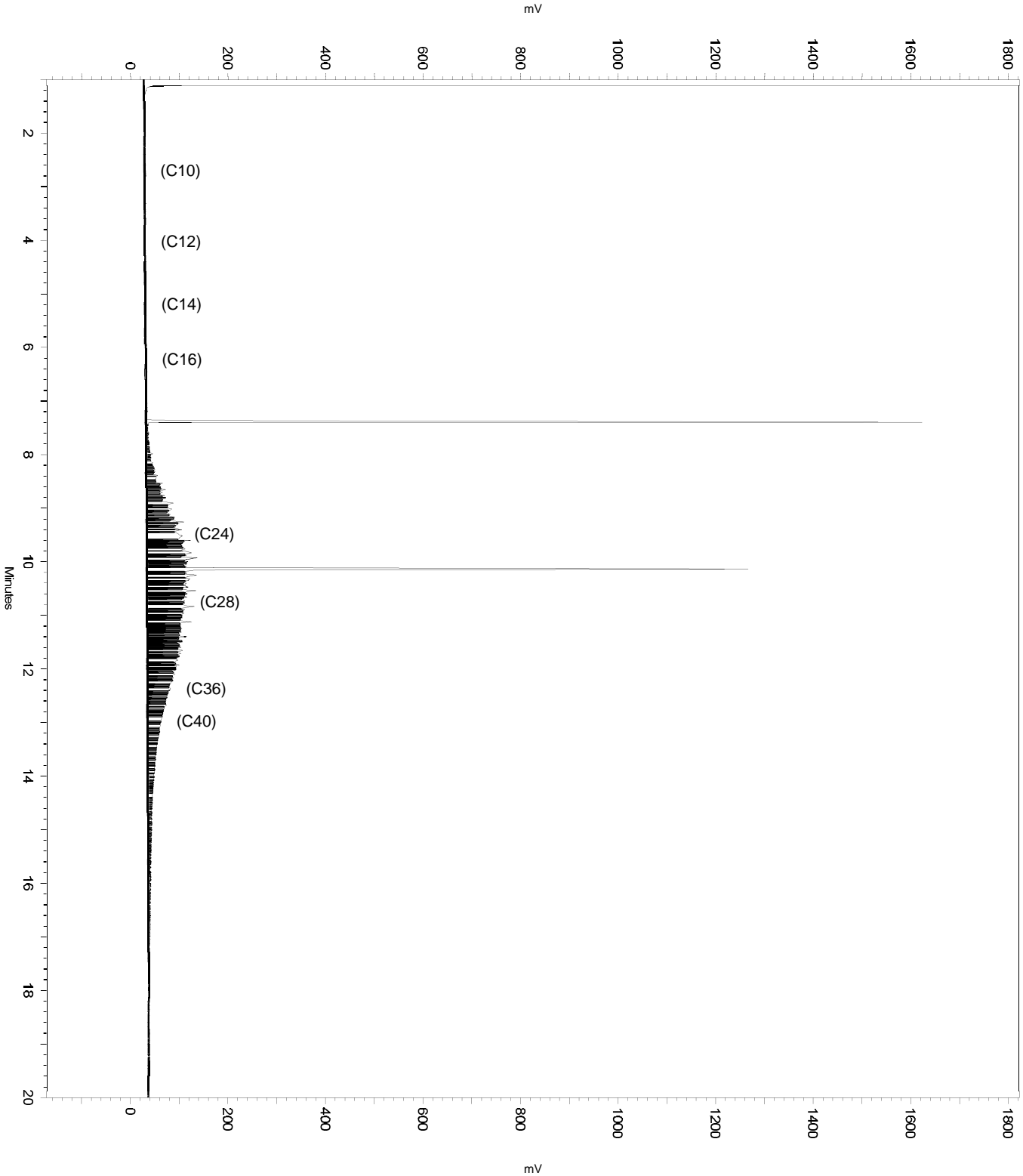
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b109

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.322	7.495	0
No	Split Peak	7.427	0	0
No	Manual Peak	10.074	10.432	0
No	Split Peak	10.103	0	0
No	Split Peak	10.187	0	0
Yes	Move BL Stop	14.548	17.879	0

Sample Name: ccv,s38548,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b109
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 11:18:13 AM
Analysis Date: 1/30/2019 11:56:39 AM
Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s38548,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b109
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
 Run Date: 1/30/2019 11:18:13 AM
 Analysis Date: 1/30/2019 11:56:25 AM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	26714	0.595
DSL:10-14	17510	1.173
DSL:10-22	3360230	82.248
DSL:10-24	5628118	133.749
DSL:10-28	12622256	295.060
DSL:12-24	5618343	152.646
DSL:12-28	12612481	336.285
DSL:14-24	5611739	195.713
DSL:16-24	5603240	280.015
MO:22-32	13897951	461.148
MO:24-36	14372073	454.361
MO:28-40	7902828	383.728
BUNKC:10-40	20045996	976.916
BUNKC:12-40	20036220	1005.313

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

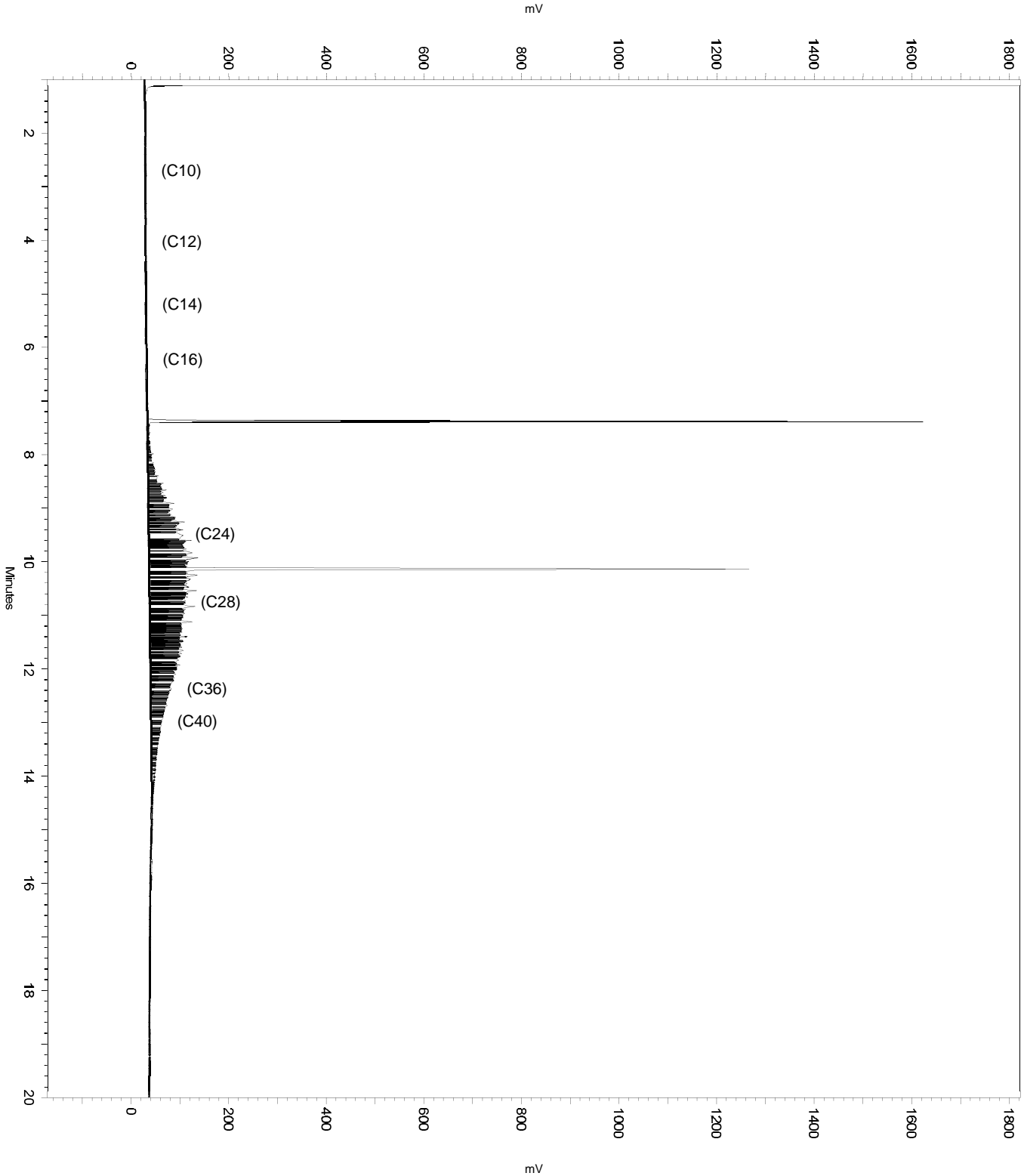
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b109

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.322	7.495	0
No	Split Peak	7.427	0	0
No	Manual Peak	10.074	10.432	0
No	Split Peak	10.103	0	0
No	Split Peak	10.187	0	0

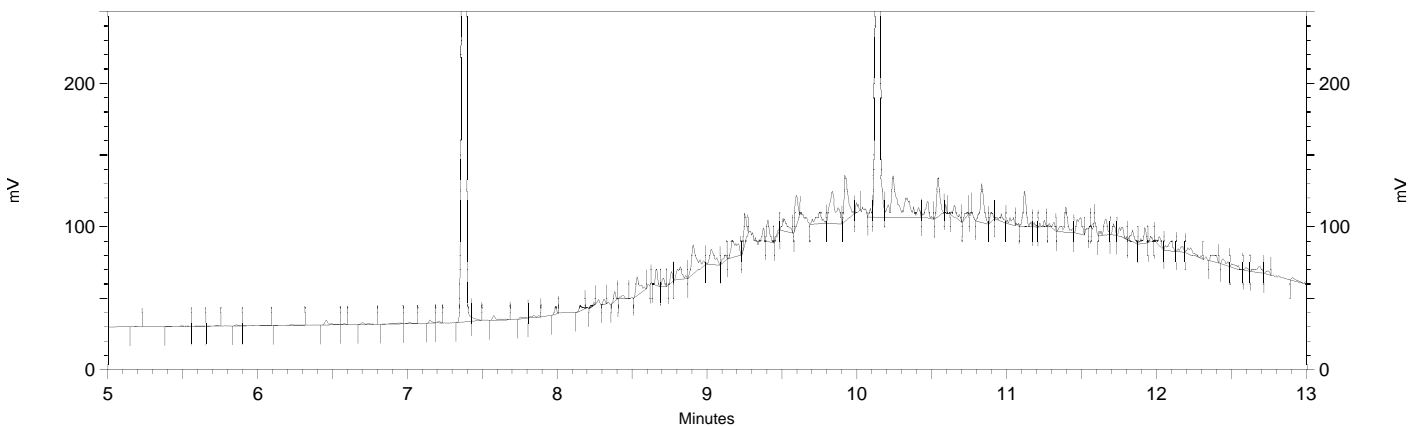
Sample Name: ccv,s38548,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b109
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_025b.met
Run Date: 1/30/2019 11:18:13 AM
Analysis Date: 1/30/2019 11:56:25 AM
Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s38548,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b109
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 11:18:13 AM
 Analysis Date: 1/30/2019 11:55:08 AM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.388	2264394	43.346
Hexacosane	10.145	1512291	35.934



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

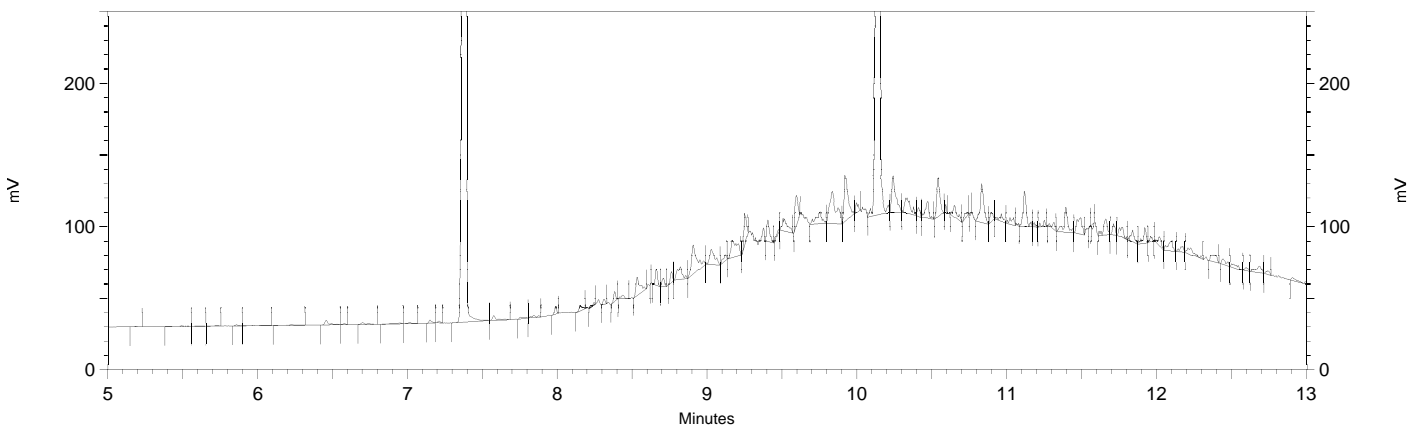
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b109

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.322	7.495	0
Yes	Split Peak	7.427	0	0
Yes	Manual Peak	10.074	10.432	0
Yes	Split Peak	10.103	0	0
Yes	Split Peak	10.187	0	0

Sample Name: **ccv,s38548,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b109
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\028b109.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 1/30/2019 11:18:13 AM
 Analysis Date: 1/30/2019 11:54:30 AM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.388	2272976	43.510
Hexacosane	10.145	1516547	36.035



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\028b109
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

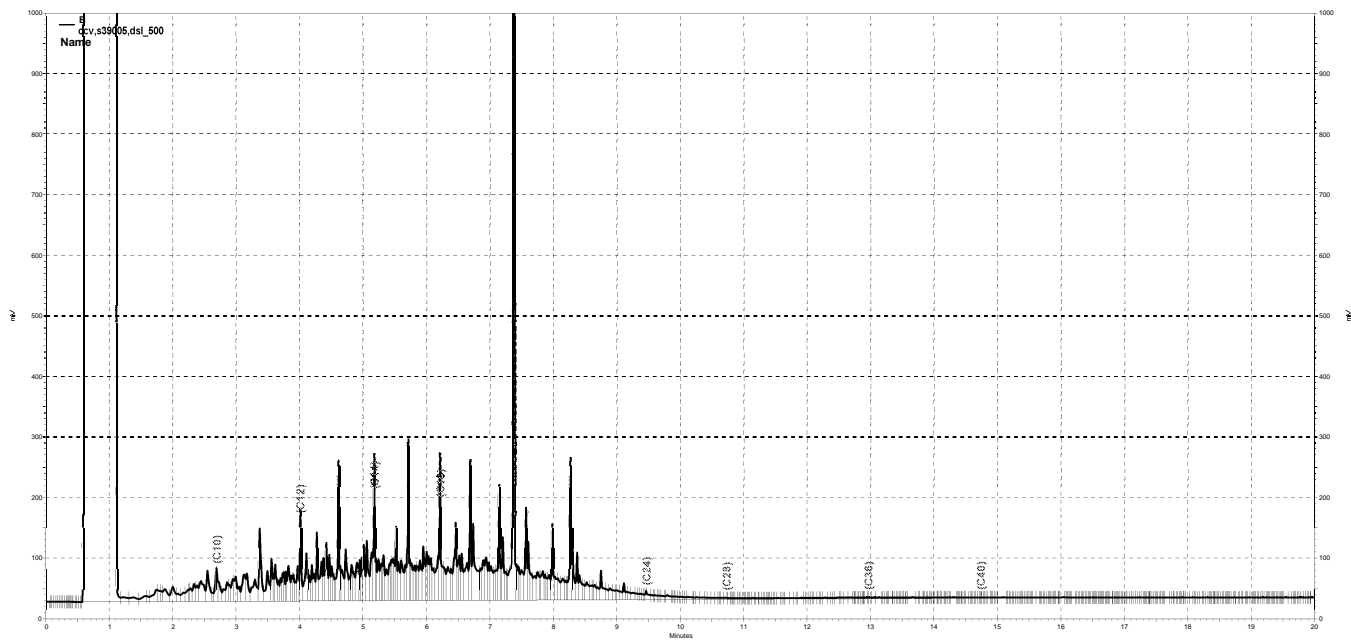
Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 229050889004 File : 035_004 Time : 04-FEB-2019 09:32
 Standards: S39005

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229036718001	25-JAN-2019	42080	38324	500.0	455.4	mg/L	-9	15	
o-Terphenyl	B	229046549001	01-FEB-2019	43610	46607	50.00	53.44	mg/L	7	15	

TKY 02/04/19 : Corrected automatically drawn baseline.

TKY 02/04/19 : ccv,s39005,dsl_500

Analyst: TKY Date: 02/04/19 Reviewer: EAH Date: 02/04/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b004, B

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 9:32:37 AM
 Analysis Date: 2/4/2019 12:03:06 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	11155460	248.493
DSL:10-14	7153027	479.292
DSL:10-22	20999396	513.998
DSL:10-24	21492412	510.754
DSL:10-28	21804382	509.702
DSL:12-24	18876572	512.860
DSL:12-28	19188542	511.621
DSL:14-24	15089906	526.271
DSL:16-24	11118459	555.632
MO:22-32	1145324	42.798
MO:24-36	628515	22.122
MO:28-40	445817	23.881
BUNKC:10-40	22232144	1083.455
BUNKC:12-40	19616304	984.244

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

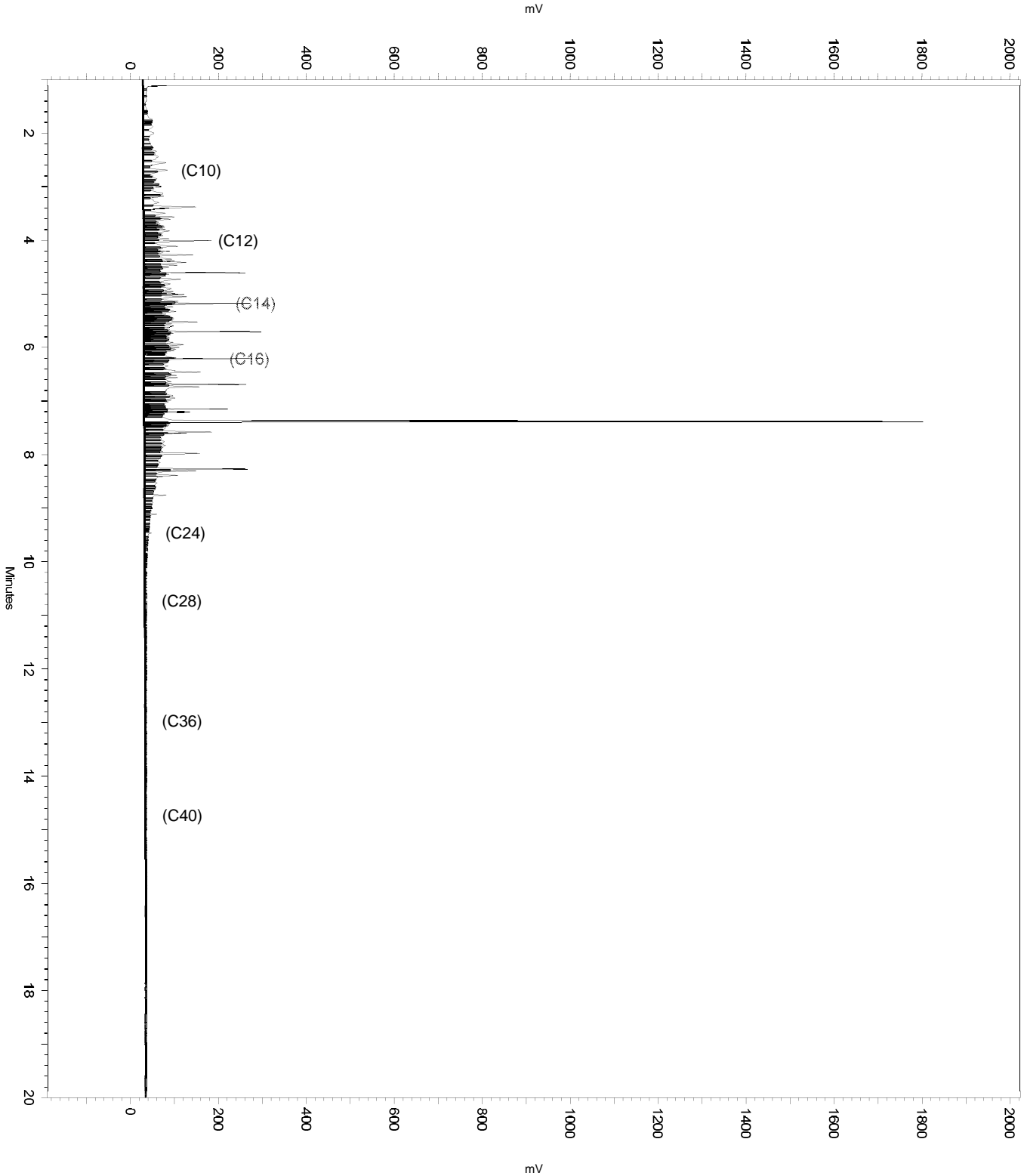
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.287	7.478	0
No	Split Peak	7.315	0	0
No	Split Peak	7.41	0	0
Yes	Move BL Stop	10.943	17.934	0

Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 9:32:37 AM
Analysis Date: 2/4/2019 12:03:06 PM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39006,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 9:32:37 AM
 Analysis Date: 2/4/2019 12:02:00 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	10997985	244.985
DSL:10-14	7055173	472.736
DSL:10-22	20646370	505.357
DSL:10-24	21076980	500.881
DSL:10-28	21254472	496.847
DSL:12-24	18500868	502.653
DSL:12-28	18678360	498.018
DSL:14-24	14764425	514.920
DSL:16-24	10849205	542.176
MO:22-32	832534	31.110
MO:24-36	268169	9.439
MO:28-40	46297	2.480
BUNKC:10-40	21297654	1037.913
BUNKC:12-40	18721542	939.349

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

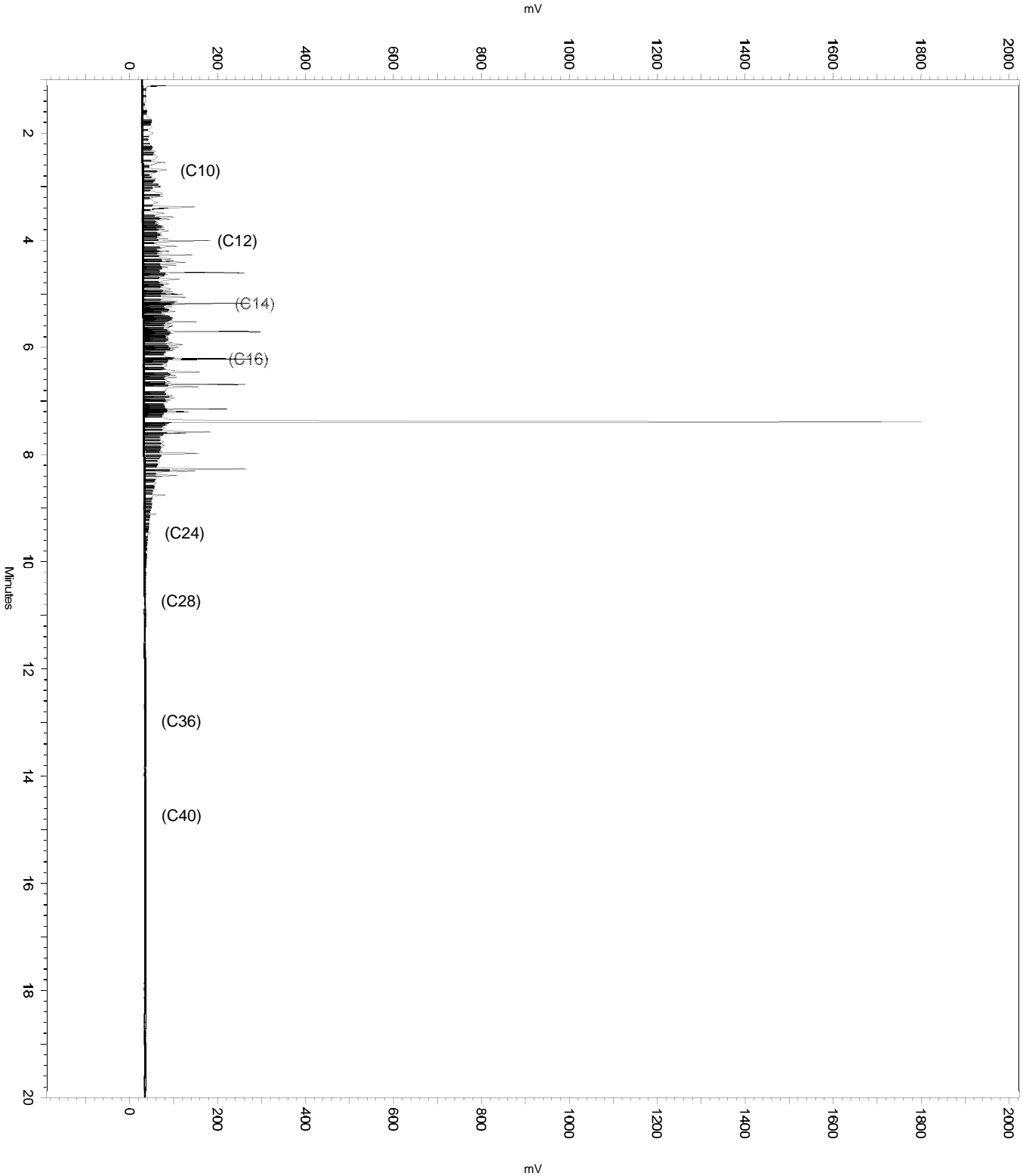
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.287	7.478	0
No	Split Peak	7.315	0	0
No	Split Peak	7.41	0	0

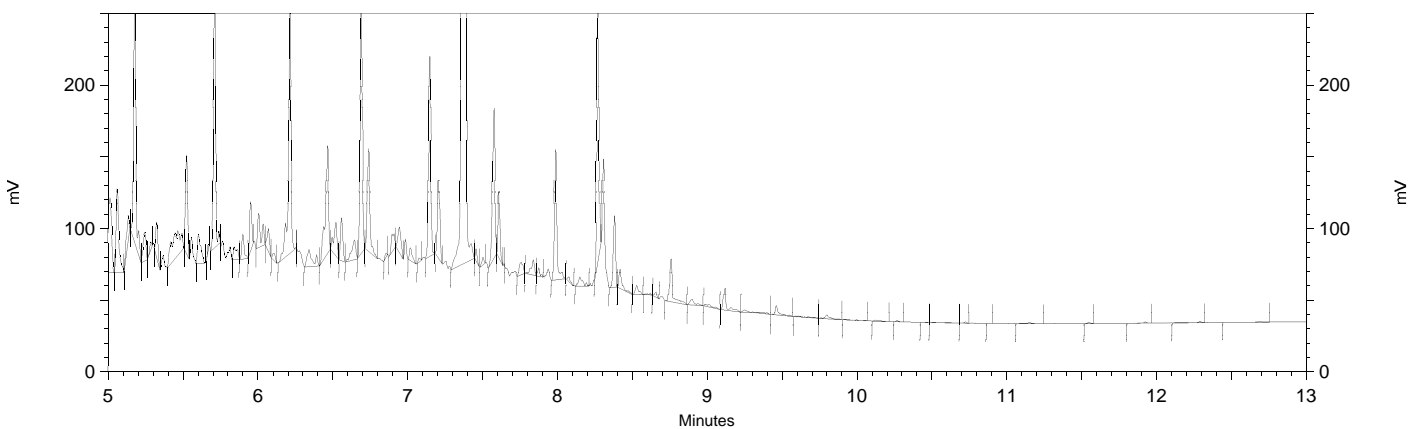
Sample Name: ccv,s39006,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 9:32:37 AM
Analysis Date: 2/4/2019 12:02:00 PM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39006,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/4/2019 9:32:37 AM
 Analysis Date: 2/4/2019 9:52:47 AM
 Instrument: GC14B Vial: 4 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.383	2332535	44.650
Hexacosane	10.123	1614	0.038



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

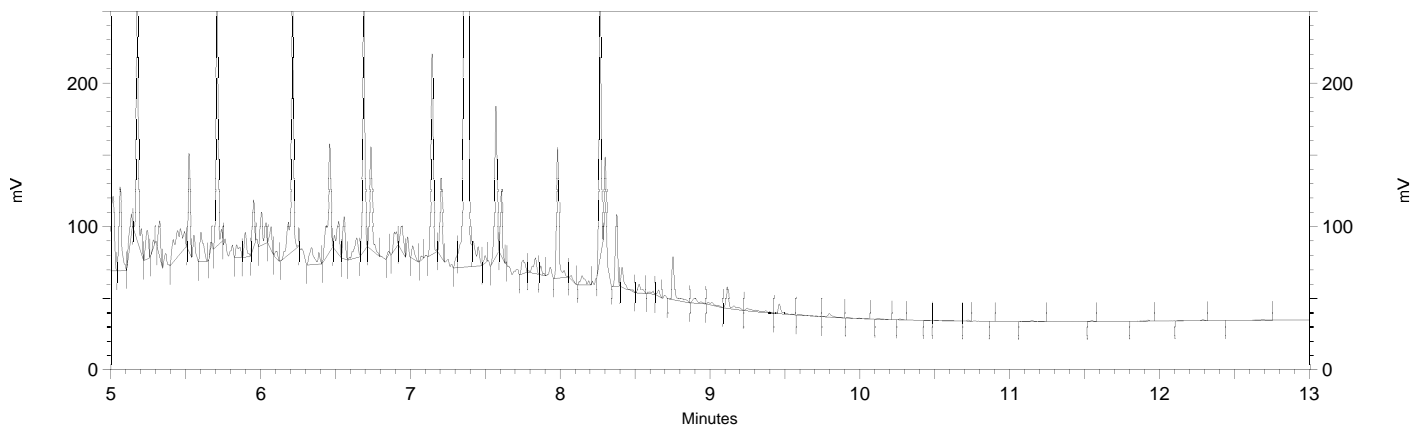
=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\035b004_B6E0.tmp
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

Sample Name: **ccv,s39006,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 9:32:37 AM
 Analysis Date: 2/4/2019 12:00:31 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.383	2330332	53.436
Hexacosane	10.123	1614	0.048



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b004

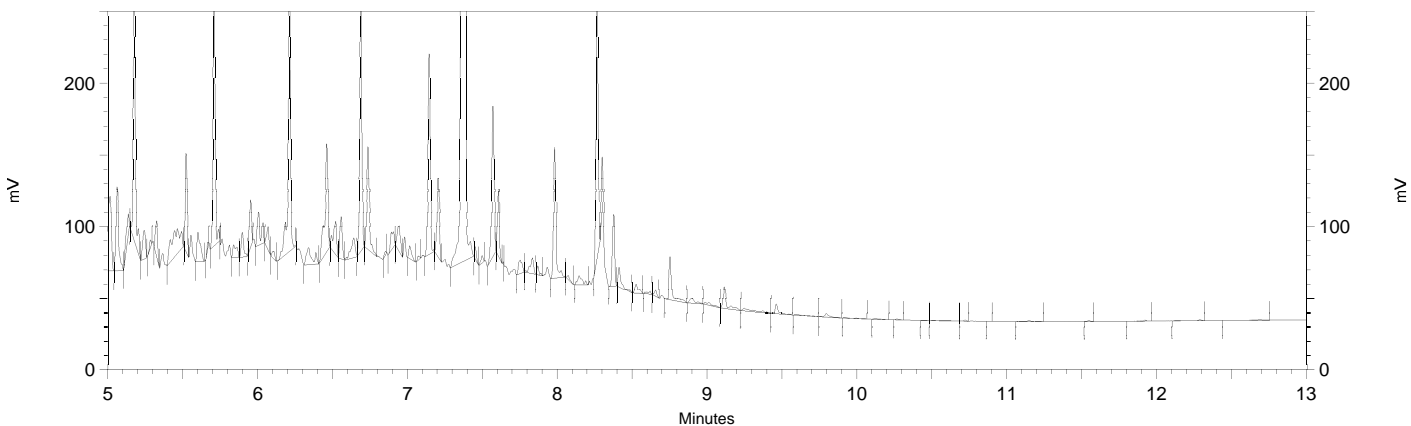
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.287	7.478	0
Yes	Split Peak	7.315	0	0
Yes	Split Peak	7.41	0	0

Sample Name: **ccv,s39006,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 9:32:37 AM
 Analysis Date: 2/4/2019 11:58:47 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.383	2332535	53.487
Hexacosane	10.123	1614	0.048



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

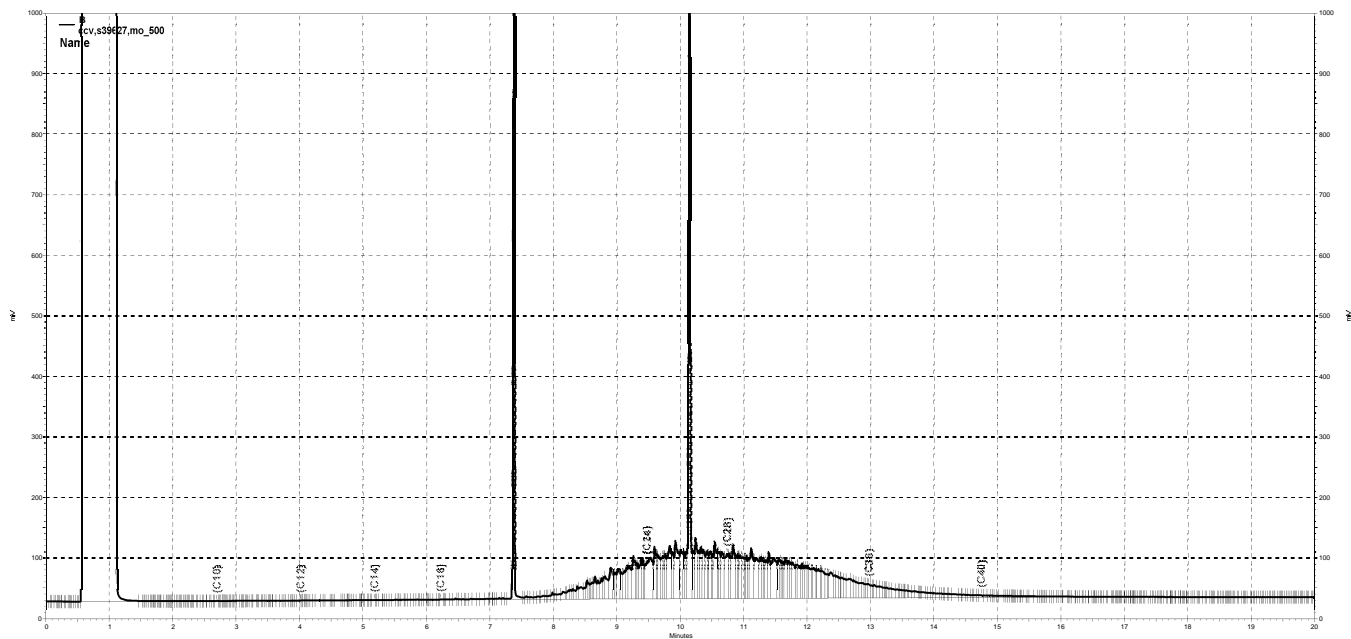
ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229050889005 File : 035_005 Time : 04-FEB-2019 09:59
 Standards: S39627

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229046549002	01-FEB-2019	28411	25618	500.0	450.8	mg/L	-10	15	
o-Terphenyl	B	229046549001	01-FEB-2019	43610	43343	50.00	49.69	mg/L	-1	15	

TKY 02/04/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 02/04/19 Reviewer: EAH Date: 02/04/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005, B

Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 9:59:56 AM
 Analysis Date: 2/4/2019 12:02:34 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	23155	0.516
DSL:10-14	15396	1.032
DSL:10-22	3409507	83.454
DSL:10-24	5604650	133.191
DSL:10-28	12808396	299.411
DSL:12-24	5595910	152.036
DSL:12-28	12799656	341.275
DSL:14-24	5589912	194.952
DSL:16-24	5584081	279.058
MO:22-32	14076735	526.016
MO:24-36	14541281	511.815
MO:28-40	8051059	431.264
BUNKC:10-40	20441910	996.211
BUNKC:12-40	20433170	1025.230

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

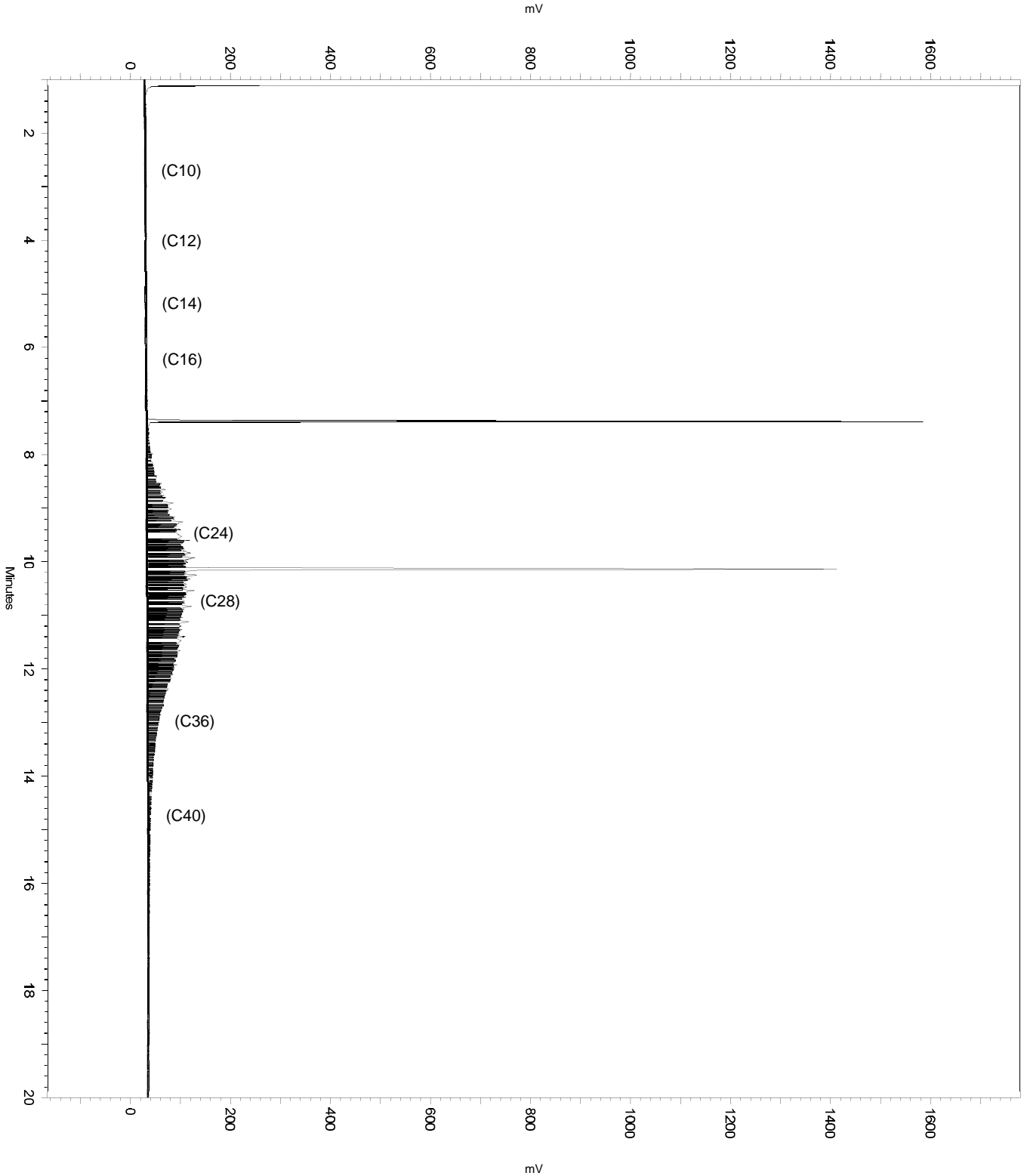
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.326	7.539	0
No	Split Peak	7.457	0	0
No	Manual Peak	10.072	10.383	0
No	Split Peak	10.104	0	0
No	Split Peak	10.185	0	0
Yes	Move BL Stop	14.838	17.005	0

Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 9:59:56 AM
Analysis Date: 2/4/2019 12:02:34 PM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 9:59:56 AM
 Analysis Date: 2/4/2019 12:02:21 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	22219	0.495
DSL:10-14	15396	1.032
DSL:10-22	3323494	81.348
DSL:10-24	5471162	130.019
DSL:10-28	12567907	293.789
DSL:12-24	5462422	148.409
DSL:12-28	12559167	334.863
DSL:14-24	5456424	190.297
DSL:16-24	5450689	272.392
MO:22-32	13783036	515.041
MO:24-36	14141318	497.737
MO:28-40	7462533	399.739
BUNKC:10-40	19622688	956.286
BUNKC:12-40	19613948	984.126

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

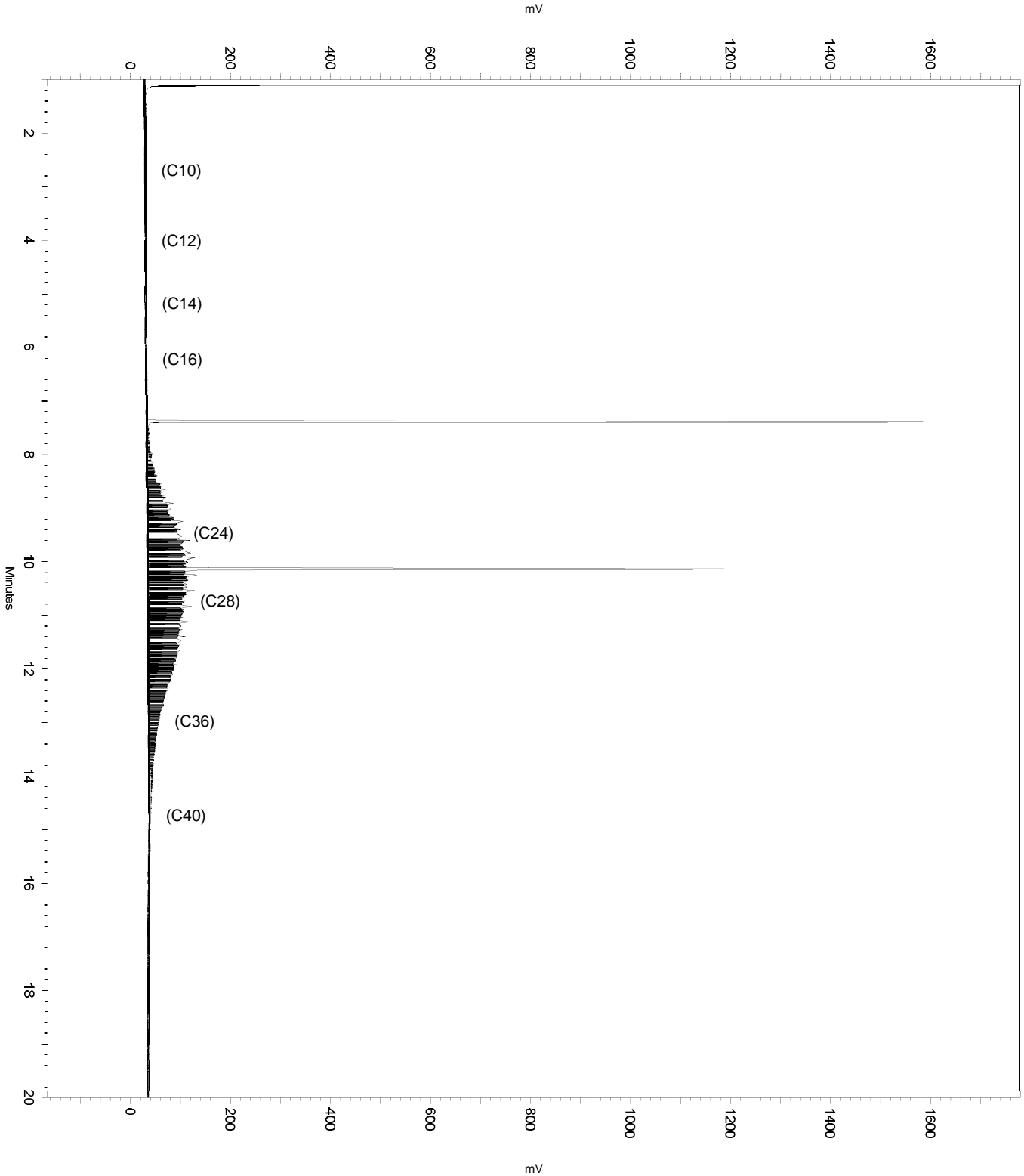
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.326	7.539	0
No	Split Peak	7.457	0	0
No	Manual Peak	10.072	10.383	0
No	Split Peak	10.104	0	0
No	Split Peak	10.185	0	0

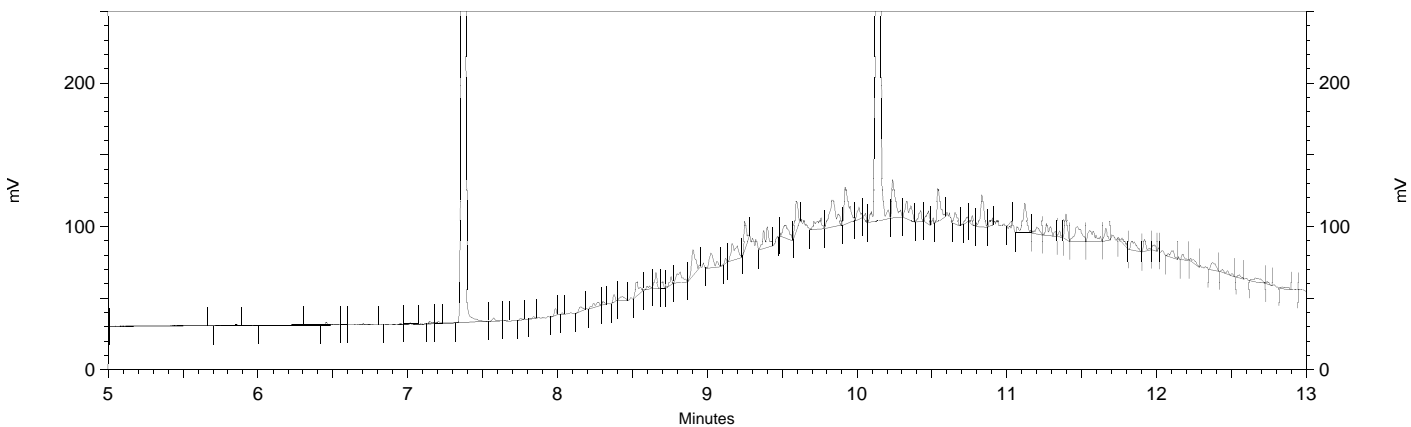
Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 9:59:56 AM
Analysis Date: 2/4/2019 12:02:21 PM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_025.met
 Run Date: 2/4/2019 9:59:56 AM
 Analysis Date: 2/4/2019 10:20:06 AM
 Instrument: GC14B Vial: 5 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.385	2172517	41.587
Hexacosane	10.148	1740027	41.345



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

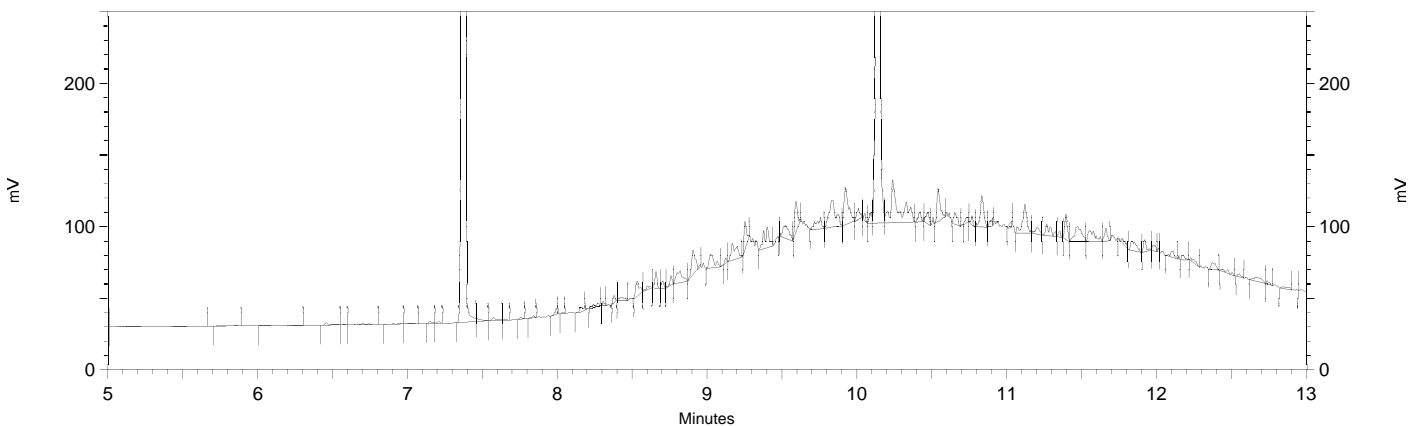
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\035b005_B6E1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 9:59:56 AM
 Analysis Date: 2/4/2019 12:01:19 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.385	2167152	49.694
Hexacosane	10.148	1732188	51.826



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

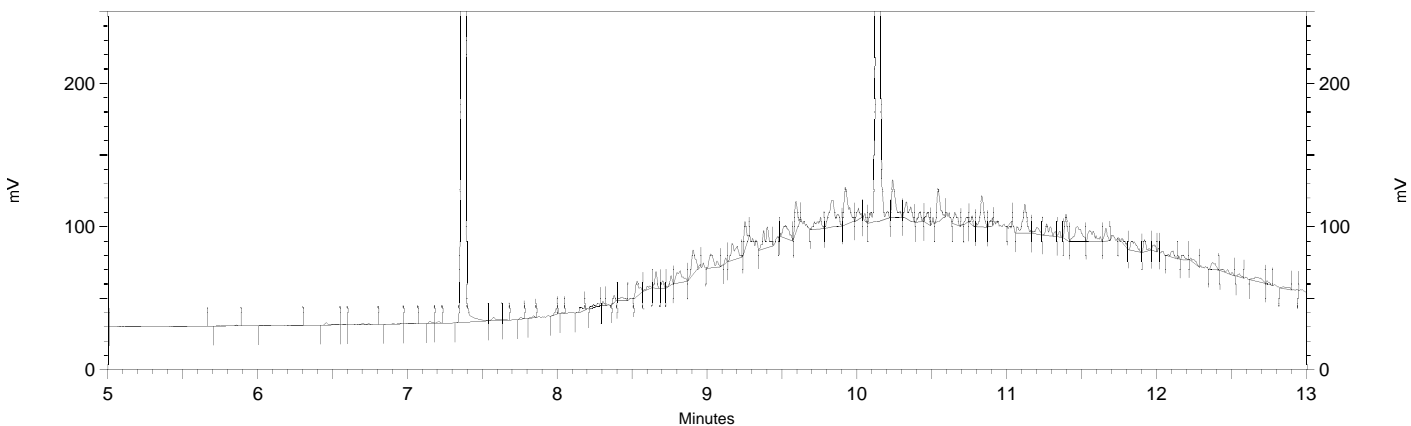
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.326	7.539	0
Yes	Split Peak	7.457	0	0
Yes	Manual Peak	10.072	10.383	0
Yes	Split Peak	10.104	0	0
Yes	Split Peak	10.185	0	0

Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 9:59:56 AM
 Analysis Date: 2/4/2019 12:00:38 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.385	2172517	49.817
Hexacosane	10.148	1740027	52.061



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

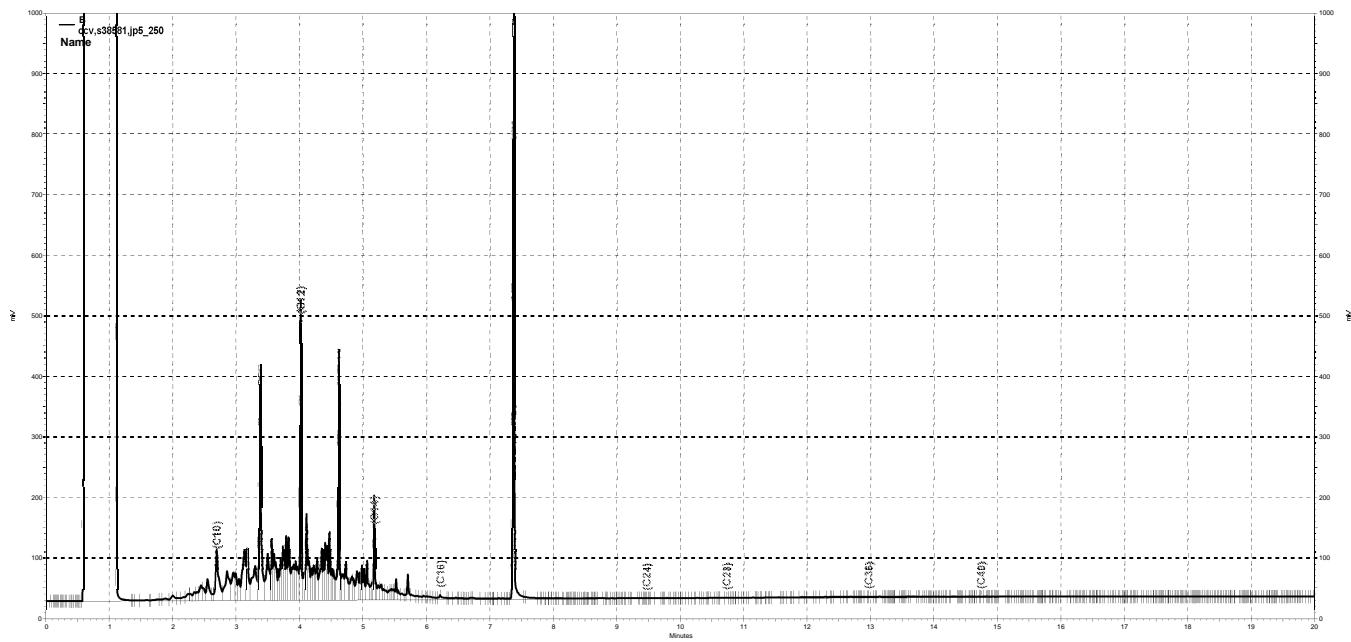
=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b005
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```


ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B Run Name : JP5_250 IDF : 1.0
 Seqnum : 229050889007 File : 035_007 Time : 04-FEB-2019 12:44
 Cal : 229046549001 Caldate : 01-FEB-2019
 Standards: S38581

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
o-Terphenyl	B	43610	41858	50.00	47.99	mg/L	-4	15	

Analyst: TKY Date: 02/04/19 Reviewer: EAH Date: 02/04/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b007, B

Sample Name: ccv,s38581,jp5_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 12:44:24 PM
 Analysis Date: 2/4/2019 1:15:25 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	9334749	207.935
DSL:10-14	8726738	584.740
DSL:10-22	11715525	286.758
DSL:10-24	11759579	279.459
DSL:10-28	11843460	276.854
DSL:12-24	7479709	203.217
DSL:12-28	7563590	201.667
DSL:14-24	3395249	118.412
DSL:16-24	2466008	123.236
MO:22-32	218546	8.167
MO:24-36	302023	10.630
MO:28-40	399064	21.376
BUNKC:10-40	12229323	595.980
BUNKC:12-40	7949453	398.862

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

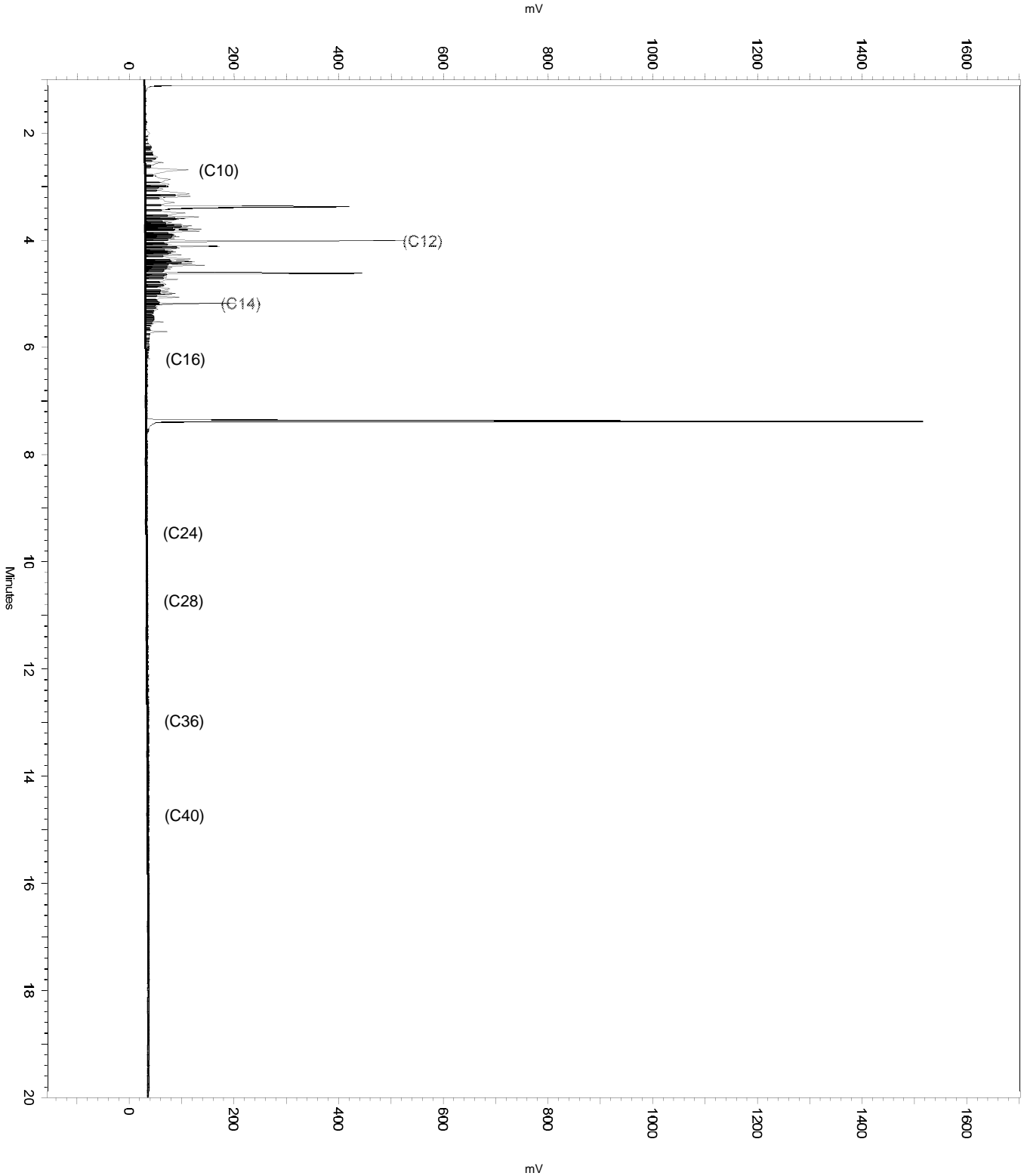
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	6.847	18.012	0
No	Manual Peak	7.327	7.685	0
No	Split Peak	7.482	0	0

Sample Name: ccv,s38581,jp5_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b007
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 12:44:24 PM
Analysis Date: 2/4/2019 1:15:25 PM
Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s38581,jp5_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 12:44:24 PM
 Analysis Date: 2/4/2019 1:15:08 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	9079518	202.250
DSL:10-14	8569575	574.209
DSL:10-22	11227980	274.825
DSL:10-24	11229876	266.871
DSL:10-28	11236317	262.662
DSL:12-24	7014032	190.565
DSL:12-28	7020473	187.186
DSL:14-24	3010369	104.989
DSL:16-24	2173722	108.629
MO:22-32	16924	0.632
MO:24-36	45248	1.593
MO:28-40	54421	2.915
BUNKC:10-40	11289318	550.170
BUNKC:12-40	7073474	354.910

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

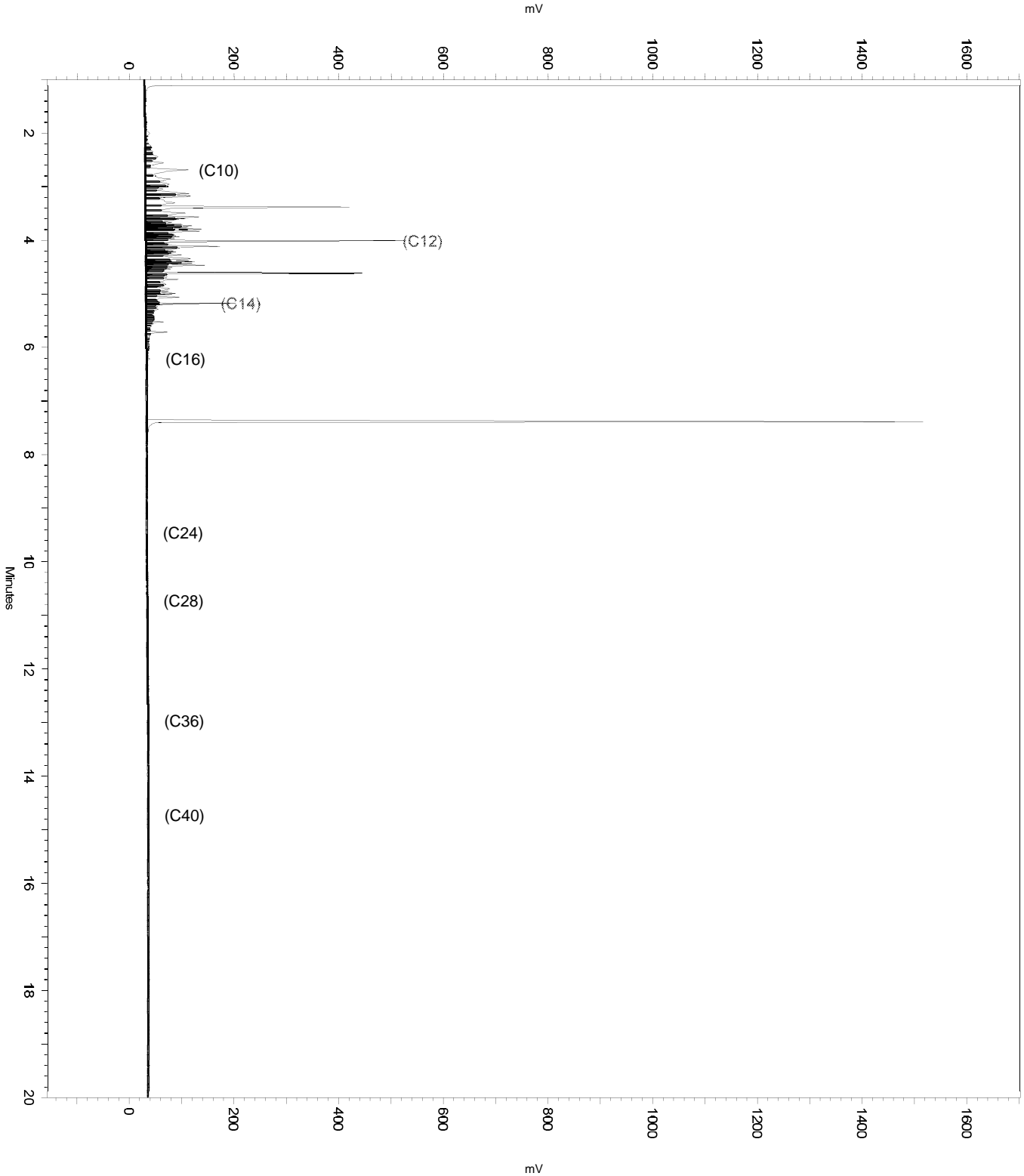
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.327	7.685	0
No	Split Peak	7.482	0	0

Sample Name: ccv,s38581,jp5_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b007
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 12:44:24 PM
Analysis Date: 2/4/2019 1:15:08 PM
Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

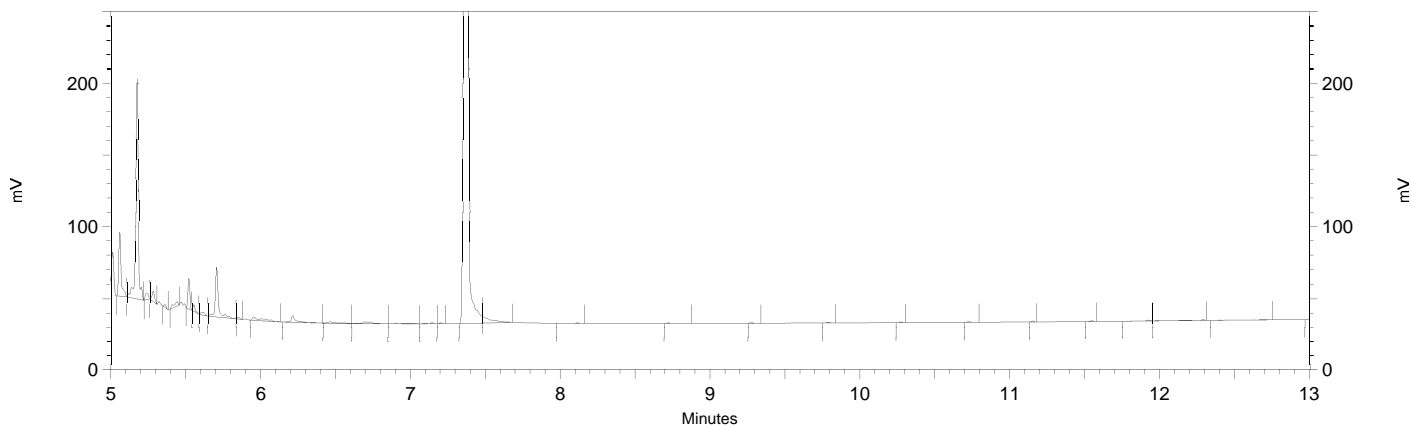


Sample Name: **ccv,s38581,jp5_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 12:44:24 PM
 Analysis Date: 2/4/2019 1:11:57 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.380	2092913	47.992
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

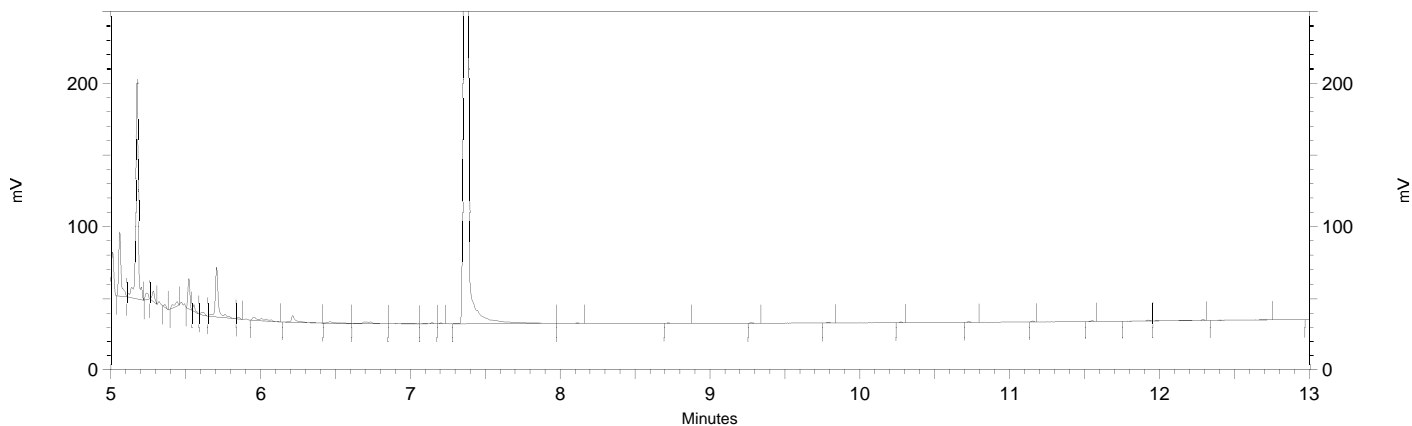
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	7.327	7.685	0
Yes	Split Peak	7.482	0	0

Sample Name: **ccv,s38581,jp5_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 12:44:24 PM
 Analysis Date: 2/4/2019 1:11:41 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.380	2127055	48.775
Hexacosane			0.000 BDL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b007
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

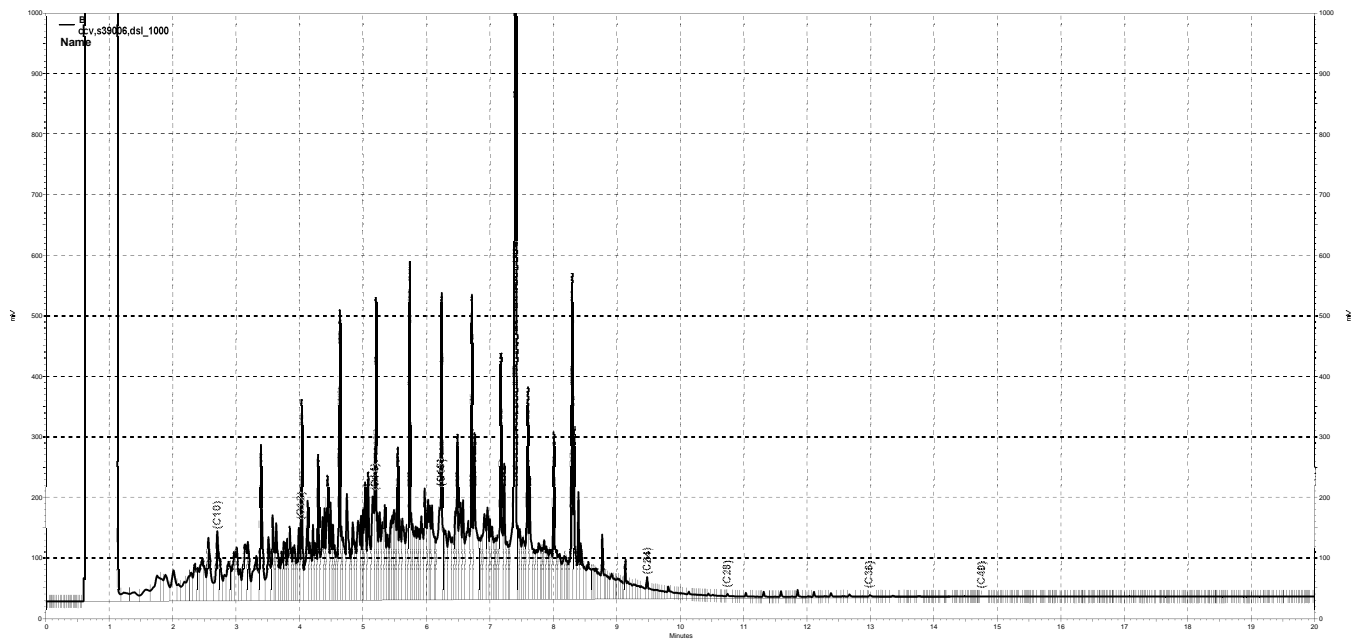

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
Seqnum : 229050889015 File : 035_015 Time : 04-FEB-2019 16:37
Standards: S39006

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229036718001	25-JAN-2019	42080	40604	1000	964.9	mg/L	-4	15	
o-Terphenyl	B	229046549001	01-FEB-2019	43610	50242	50.00	57.60	mg/L	15	15	

TKY 02/04/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 02/04/19 Reviewer: EAH Date: 02/04/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b015, B

Sample Name: **ccv,s39006,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 4:37:08 PM
 Analysis Date: 2/4/2019 5:50:10 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	23324202	519.556
DSL:10-14	14881447	997.139
DSL:10-22	42014832	1028.388
DSL:10-24	43116136	1024.628
DSL:10-28	43728132	1022.194
DSL:12-24	37639960	1022.645
DSL:12-28	38251956	1019.906
DSL:14-24	29532680	1029.973
DSL:16-24	21141704	1056.531
MO:22-32	2373548	88.694
MO:24-36	1149545	40.461
MO:28-40	639826	34.273
BUNKC:10-40	44325300	2160.136
BUNKC:12-40	38849124	1949.246

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

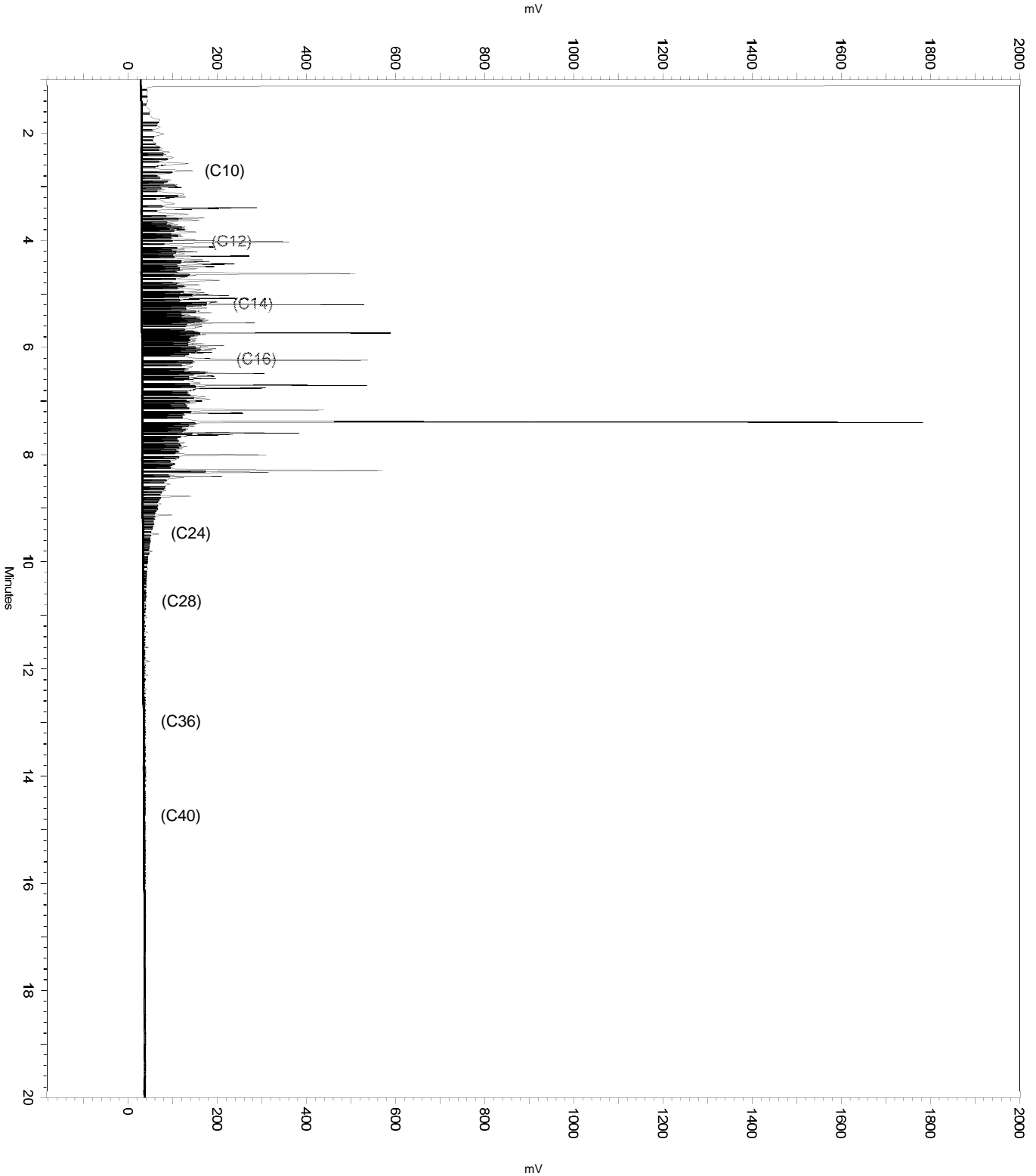
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.31	7.495	0
No	Split Peak	7.343	0	0
No	Split Peak	7.428	0	0
Yes	Move BL Stop	13.44	17.337	0

Sample Name: ccv,s39006,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 4:37:08 PM
Analysis Date: 2/4/2019 5:50:10 PM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39006,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 4:37:08 PM
 Analysis Date: 2/4/2019 5:49:55 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	23187212	516.505
DSL:10-14	14796753	991.465
DSL:10-22	41704472	1020.792
DSL:10-24	42747912	1015.878
DSL:10-28	43242636	1010.845
DSL:12-24	37305880	1013.568
DSL:12-28	37800604	1007.872
DSL:14-24	29243882	1019.901
DSL:16-24	20903030	1044.604
MO:22-32	2070977	77.388
MO:24-36	775357	27.291
MO:28-40	203247	10.887
BUNKC:10-40	43419500	2115.994
BUNKC:12-40	37977468	1905.512

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

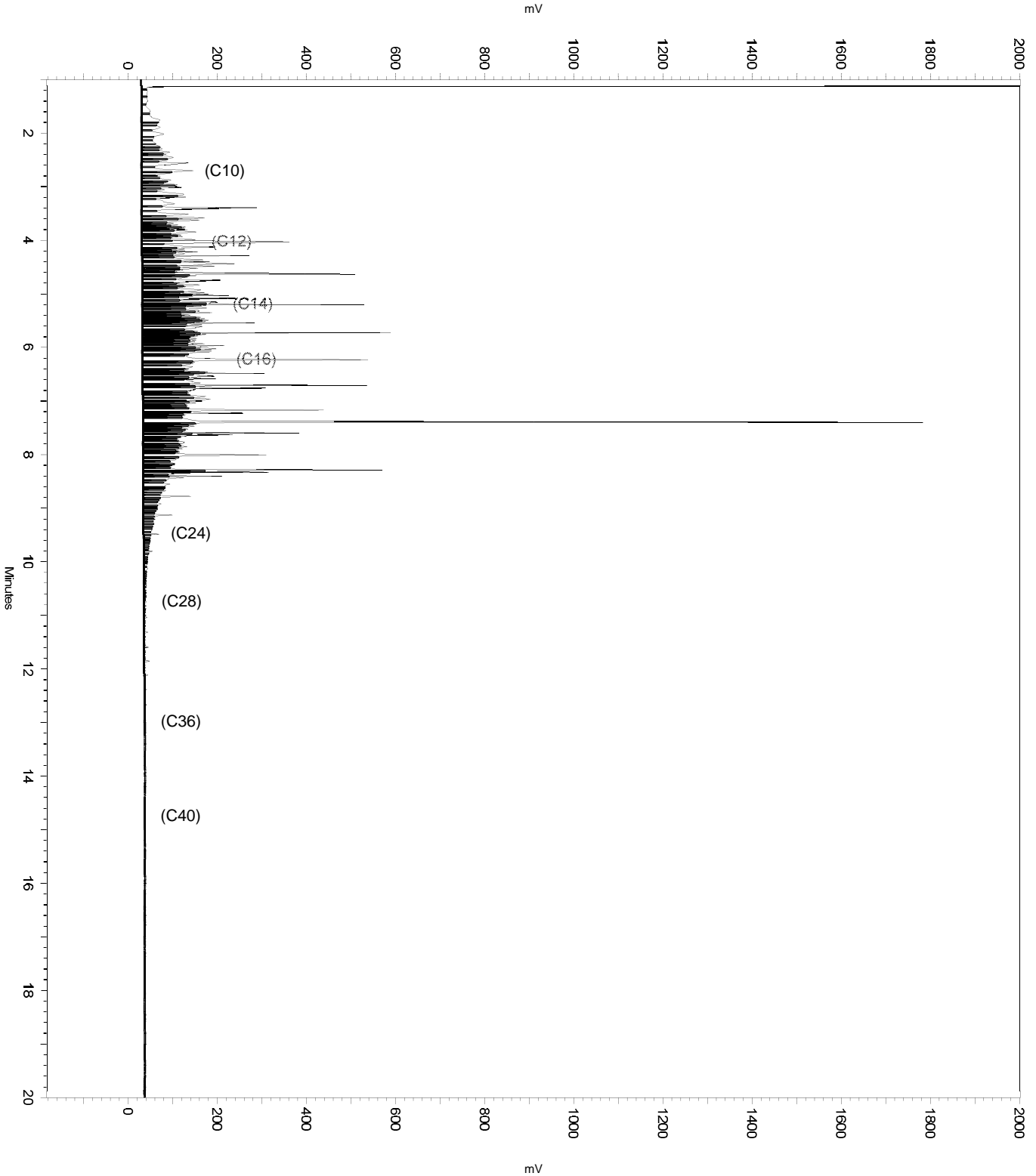
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	7.31	7.495	0
No	Split Peak	7.343	0	0
No	Split Peak	7.428	0	0

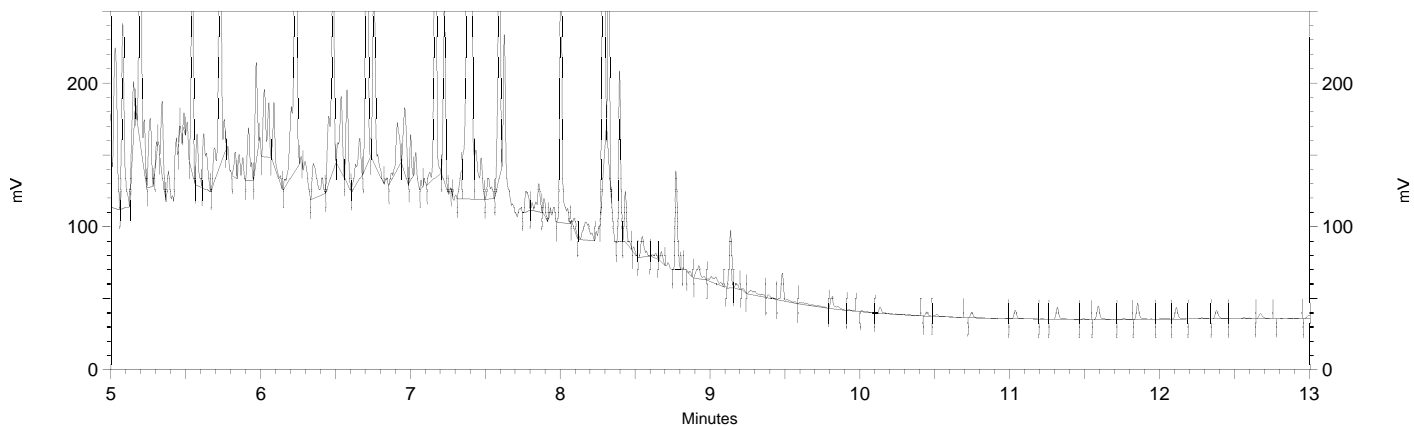
Sample Name: ccv,s39006,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 4:37:08 PM
Analysis Date: 2/4/2019 5:49:55 PM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39006,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 4:37:08 PM
 Analysis Date: 2/4/2019 5:48:44 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.405	2512082	57.604
Hexacosane	10.138	9303	0.278



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off     0          2     0
Yes Valley to Valley    0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

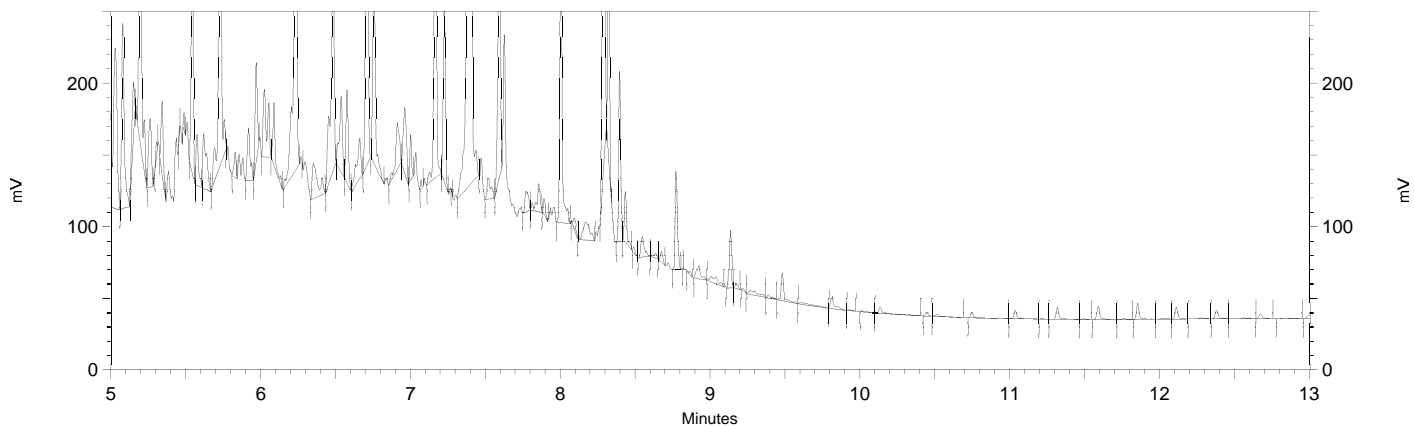
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b015
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Manual Peak         7.31      7.495   0
Yes Split Peak          7.343     0     0
Yes Split Peak          7.428     0     0
  
```

Sample Name: **ccv,s39006,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 4:37:08 PM
 Analysis Date: 2/4/2019 5:47:37 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.405	2506208	57.469
Hexacosane	10.138	9303	0.278



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b015
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

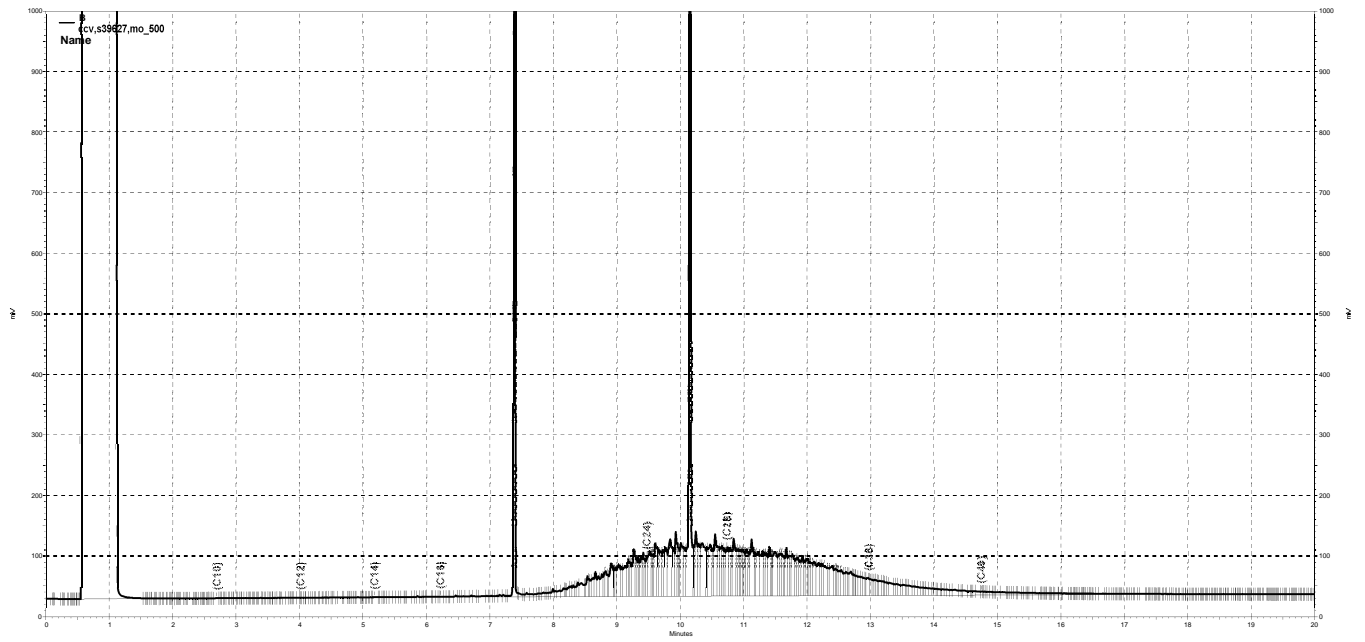

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229050889016 File : 035_016 Time : 04-FEB-2019 17:03
 Standards: S39627

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229046549002	01-FEB-2019	28411	28306	500.0	498.1	mg/L	0	15	
o-Terphenyl	B	229046549001	01-FEB-2019	43610	46085	50.00	52.84	mg/L	6	15	

TKY 02/04/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 02/04/19 Reviewer: EAH Date: 02/04/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b016, B

Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b016
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 5:03:57 PM
 Analysis Date: 2/4/2019 5:50:32 PM
 Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	45793	1.020
DSL:10-14	16335	1.095
DSL:10-22	3717839	91.001
DSL:10-24	5967782	141.821
DSL:10-28	13957262	326.267
DSL:12-24	5959530	161.915
DSL:12-28	13949010	371.920
DSL:14-24	5953501	207.632
DSL:16-24	5928881	296.289
MO:22-32	15241650	569.546
MO:24-36	16099765	566.669
MO:28-40	9436446	505.474
BUNKC:10-40	22841048	1113.129
BUNKC:12-40	22832796	1145.631

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

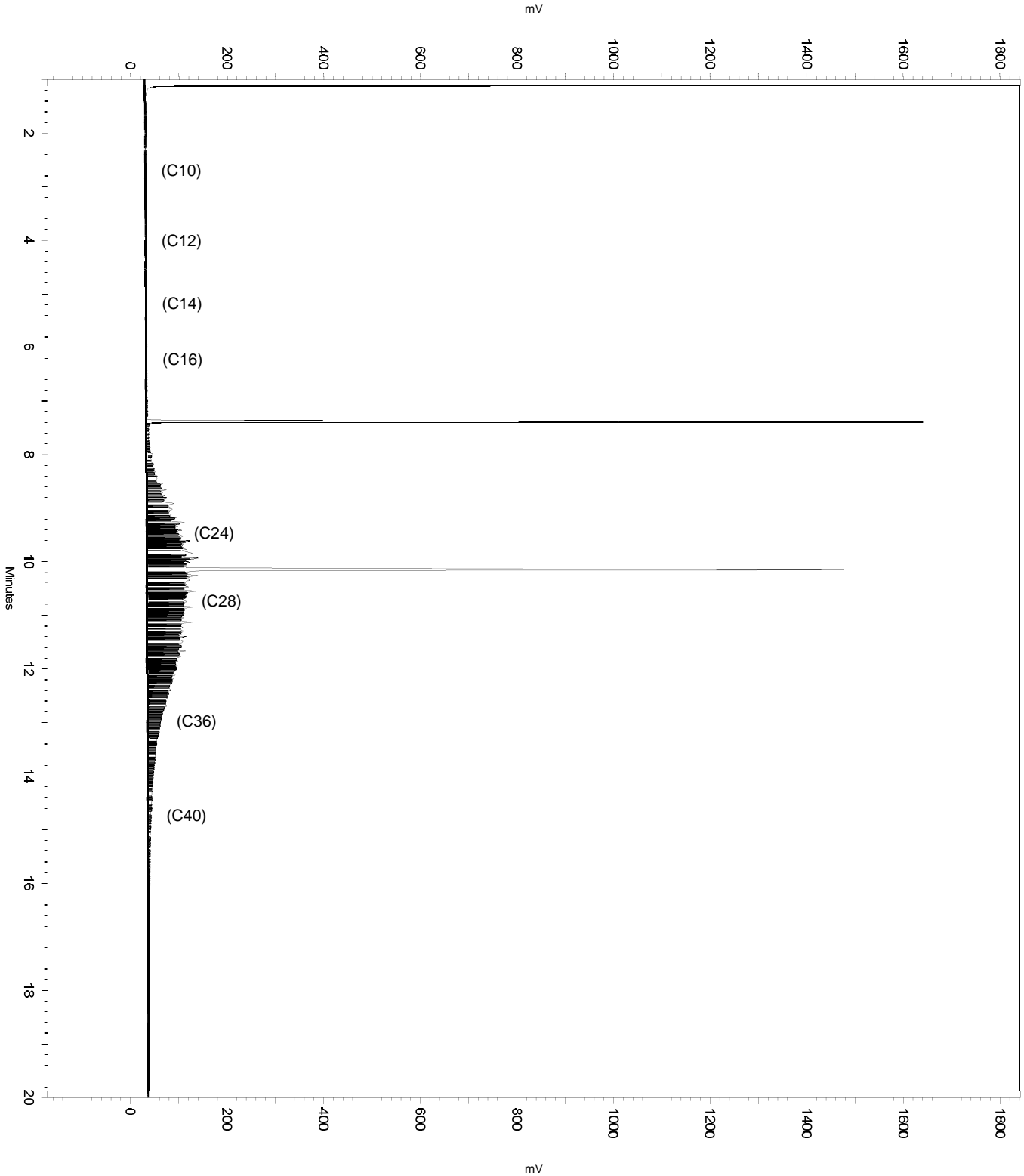
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Split Peak	7.43	0	0
No	Manual Peak	10.089	10.405	0
No	Split Peak	10.113	0	0
No	Split Peak	10.202	0	0
Yes	Move BL Stop	15.593	18.62	0

Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b016
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 5:03:57 PM
Analysis Date: 2/4/2019 5:50:32 PM
Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b016
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
 Run Date: 2/4/2019 5:03:57 PM
 Analysis Date: 2/4/2019 5:50:19 PM
 Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	23889	0.532
DSL:10-14	13697	0.918
DSL:10-22	3571409	87.417
DSL:10-24	5769406	137.106
DSL:10-28	13642498	318.909
DSL:12-24	5761154	156.526
DSL:12-28	13634246	363.528
DSL:14-24	5756501	200.762
DSL:16-24	5748064	287.253
MO:22-32	14936856	558.157
MO:24-36	15695556	552.442
MO:28-40	8868519	475.052
BUNKC:10-40	21970610	1070.710
BUNKC:12-40	21962358	1101.957

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

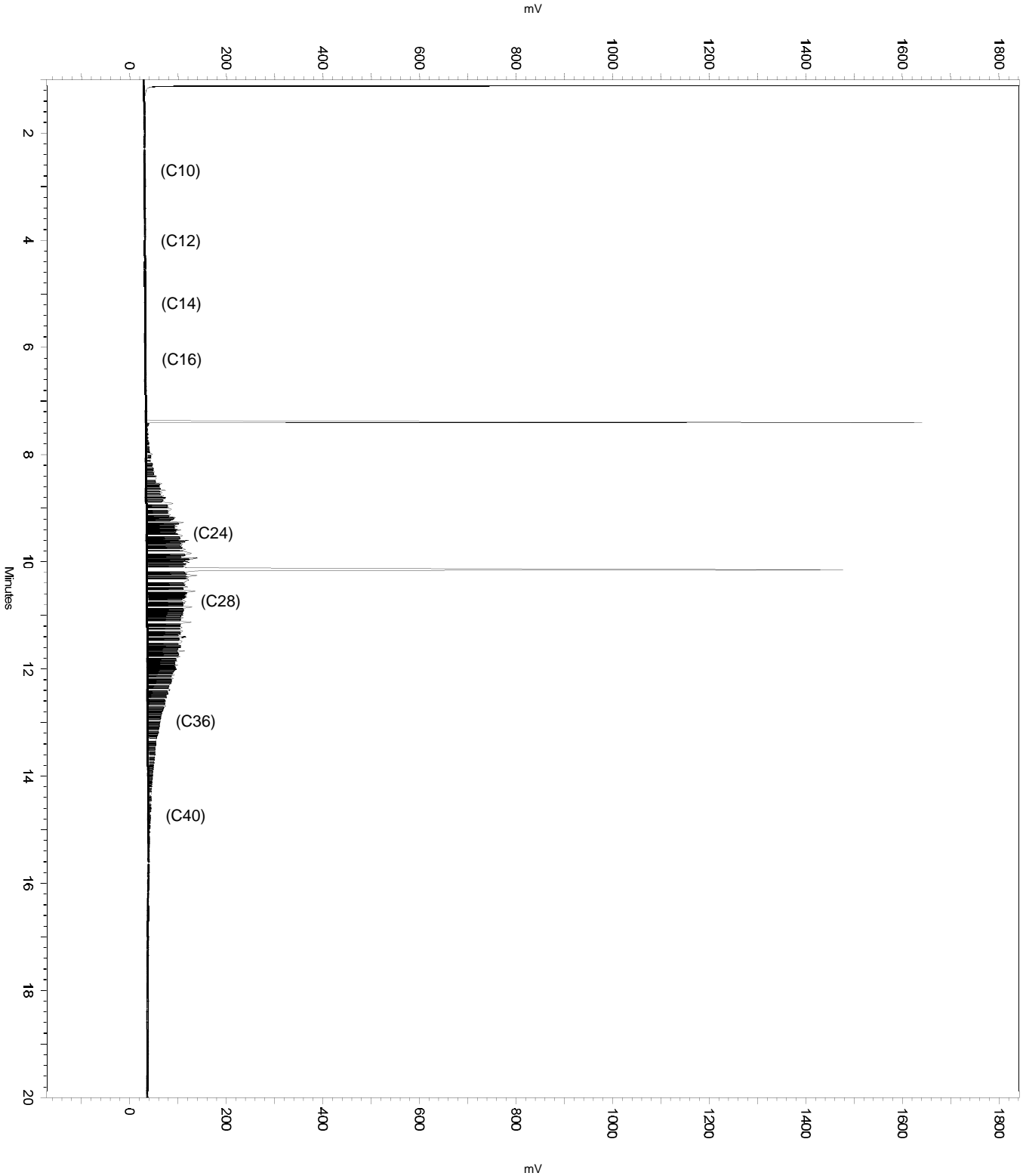
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Split Peak	7.43	0	0
No	Manual Peak	10.089	10.405	0
No	Split Peak	10.113	0	0
No	Split Peak	10.202	0	0

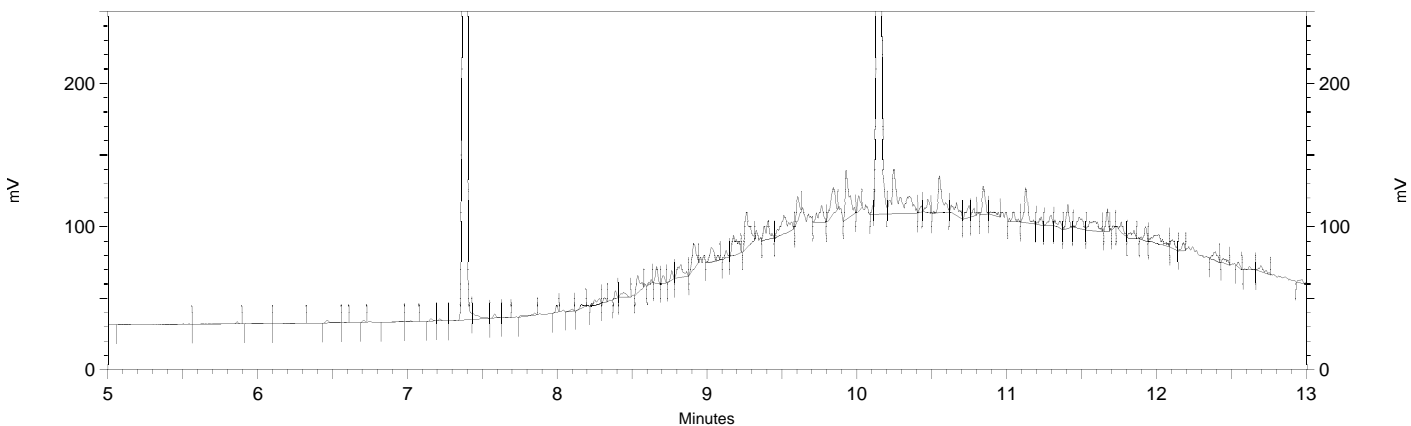
Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b016
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_035.met
Run Date: 2/4/2019 5:03:57 PM
Analysis Date: 2/4/2019 5:50:19 PM
Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b016
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 5:03:57 PM
 Analysis Date: 2/4/2019 5:49:34 PM
 Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.395	2304229	52.838
Hexacosane	10.158	1946743	58.246



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

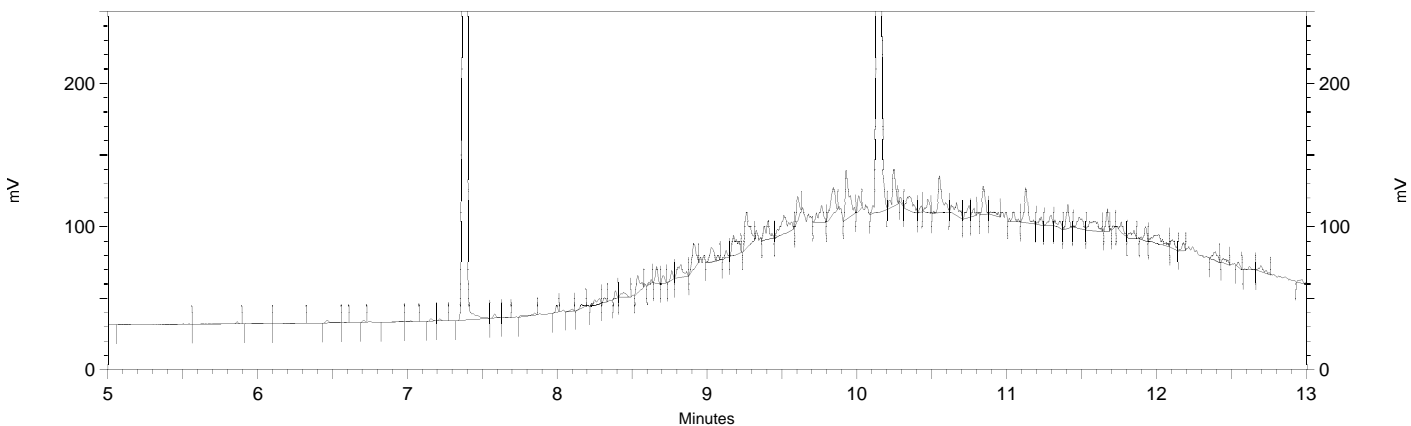
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	7.43	0	0
Yes	Manual Peak	10.089	10.405	0
Yes	Split Peak	10.113	0	0
Yes	Split Peak	10.202	0	0

Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b016
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\035.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_035.met
 Run Date: 2/4/2019 5:03:57 PM
 Analysis Date: 2/4/2019 5:48:51 PM
 Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	7.395	2316262	53.114
Hexacosane	10.158	1940579	58.061



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\035b016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

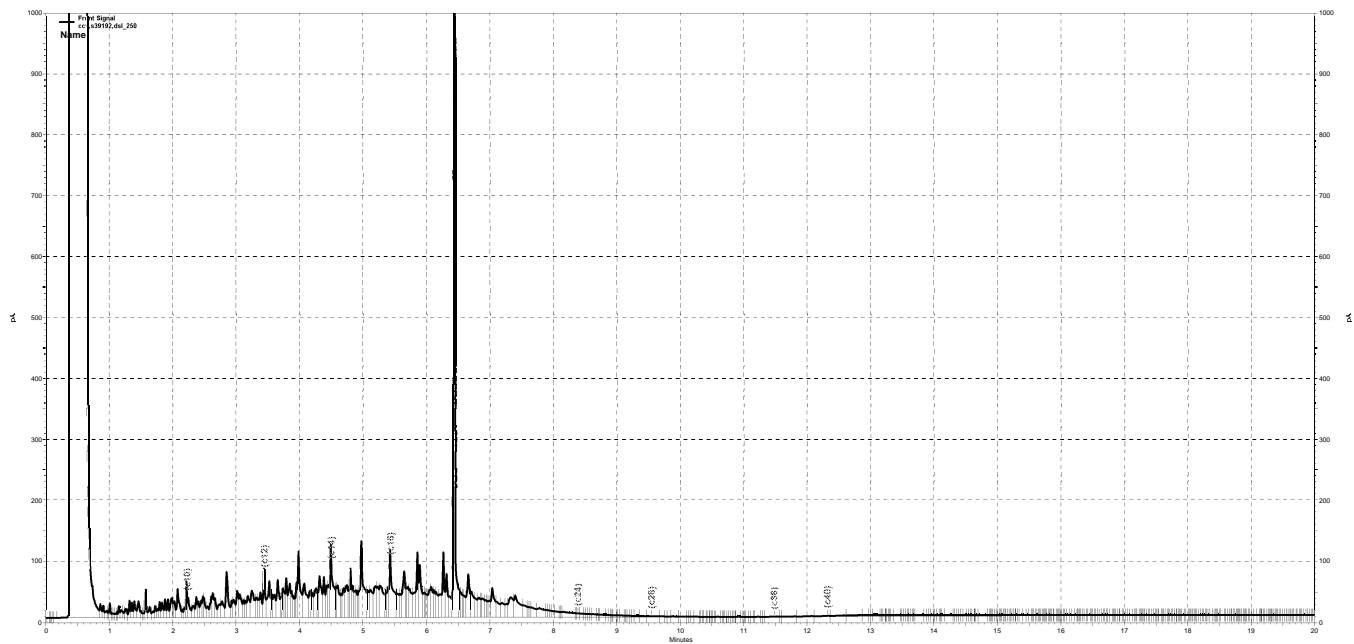
ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A Run Name : DSL_250 IDF : 1.0
Seqnum : 979033612177 File : 023a177 Time : 26-JAN-2019 19:43
Standards: S39192

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	979016508004	11-JAN-2019	370406	392158	250.0	264.7	mg/L	6	15	
o-Terphenyl	979016508005	11-JAN-2019	429397	419256	50.00	48.82	mg/L	-2	15	

VQ 01/27/19 : Corrected automatically drawn baseline.

Analyst: VO Date: 01/27/19 Reviewer: EAH Date: 01/28/19
Page 1 of 1 979033612177



— G:\ezchrom\Projects\GC27\Data\2019\023a177.dat, Front Signal

Sample Name: **ccv,s39192,dsl_250**
 Data File: **G:\ezchrom\Projects\GC27\Data\2019\023a177.dat**
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2019\023.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\TEH_021.met**
 Run Date: **1/26/2019 7:43:46 PM**
 Analysis Date: **1/27/2019 2:52:12 PM**
 Instrument: **GC27A Vial: 27 Operator: teh4**
 Sample Amount: **1**

GC27a
TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		59882081	126.421
DSL:10-14		38721864	263.091
DSL:10-22		116763118	320.828
DSL:10-24		119002272	321.275
DSL:10-28		120460639	323.246
DSL:12-24		104590247	331.418
DSL:12-28		106048614	333.656
DSL:14-24		84333863	353.821
DSL:16-24		63220756	395.135
MO:22-32		4699743	20.210
MO:24-36		2021598	8.421
MO:28-40		508205	3.321
BUNKC:10-40		120854072	598.079
BUNKC:12-40		106442047	543.353

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

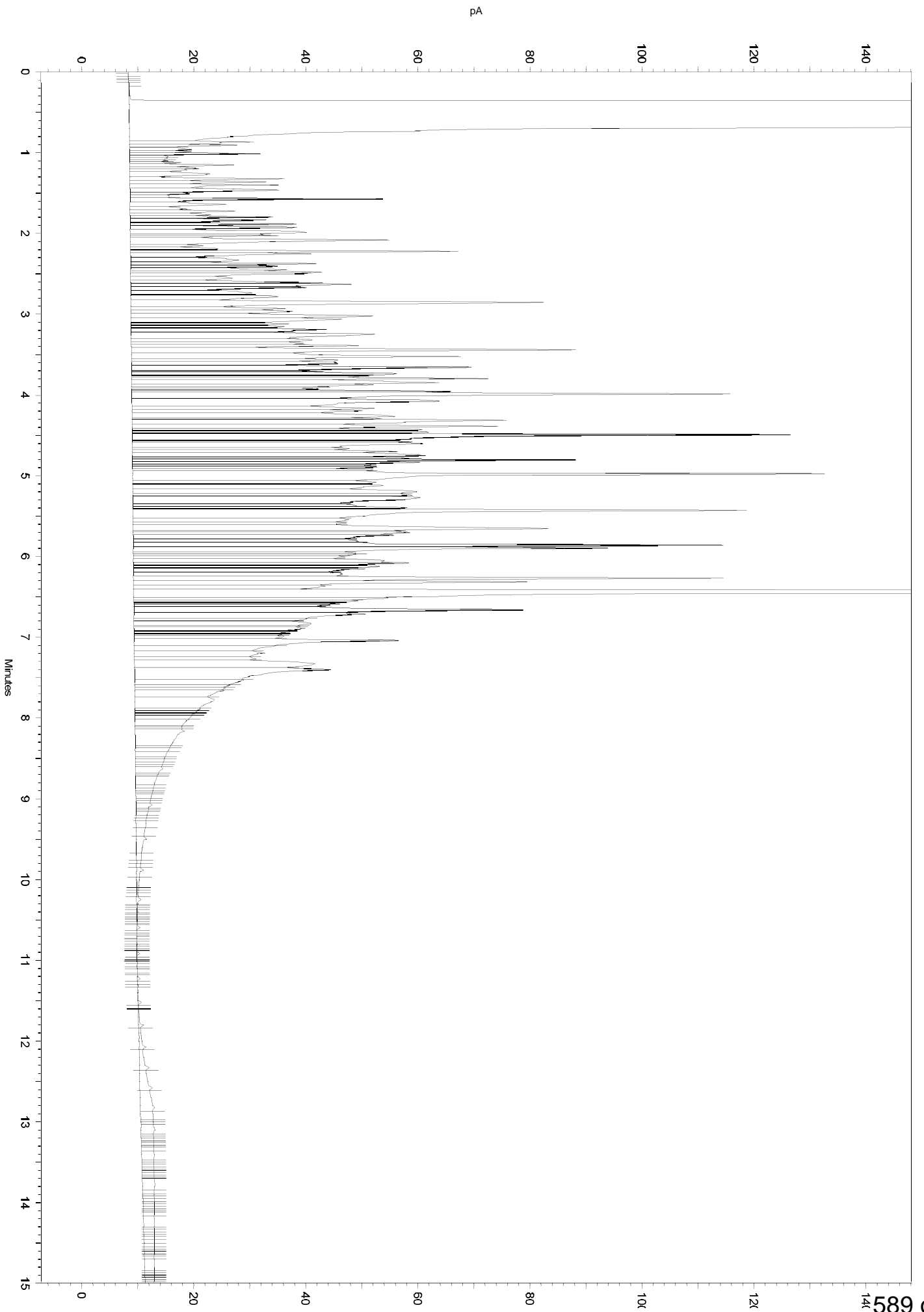
```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\023a177.dat
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
No Manual Baseline      6.395     6.762     0
Yes Move BL Start       1.295     0.094     0
Yes Move BL Stop        10.427    10.696     0
  
```



Sample Name: ccv,s39192,dsl_250
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a177.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_021.met
 Run Date: 1/26/2019 7:43:46 PM
 Analysis Date: 1/27/2019 2:51:56 PM
 Instrument: GC27A Vial: 27 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		53992120	113.987
DSL:10-14		34221953	232.516
DSL:10-22		108494082	298.108
DSL:10-24		110351325	297.920
DSL:10-28		111337278	298.764
DSL:12-24		98386350	311.760
DSL:12-28		99372303	312.651
DSL:14-24		79942028	335.395
DSL:16-24		60222887	376.398
MO:22-32		3633584	15.625
MO:24-36		1360042	5.665
MO:28-40		339454	2.218
BUNKC:10-40		111618290	552.373
BUNKC:12-40		99653315	508.699

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

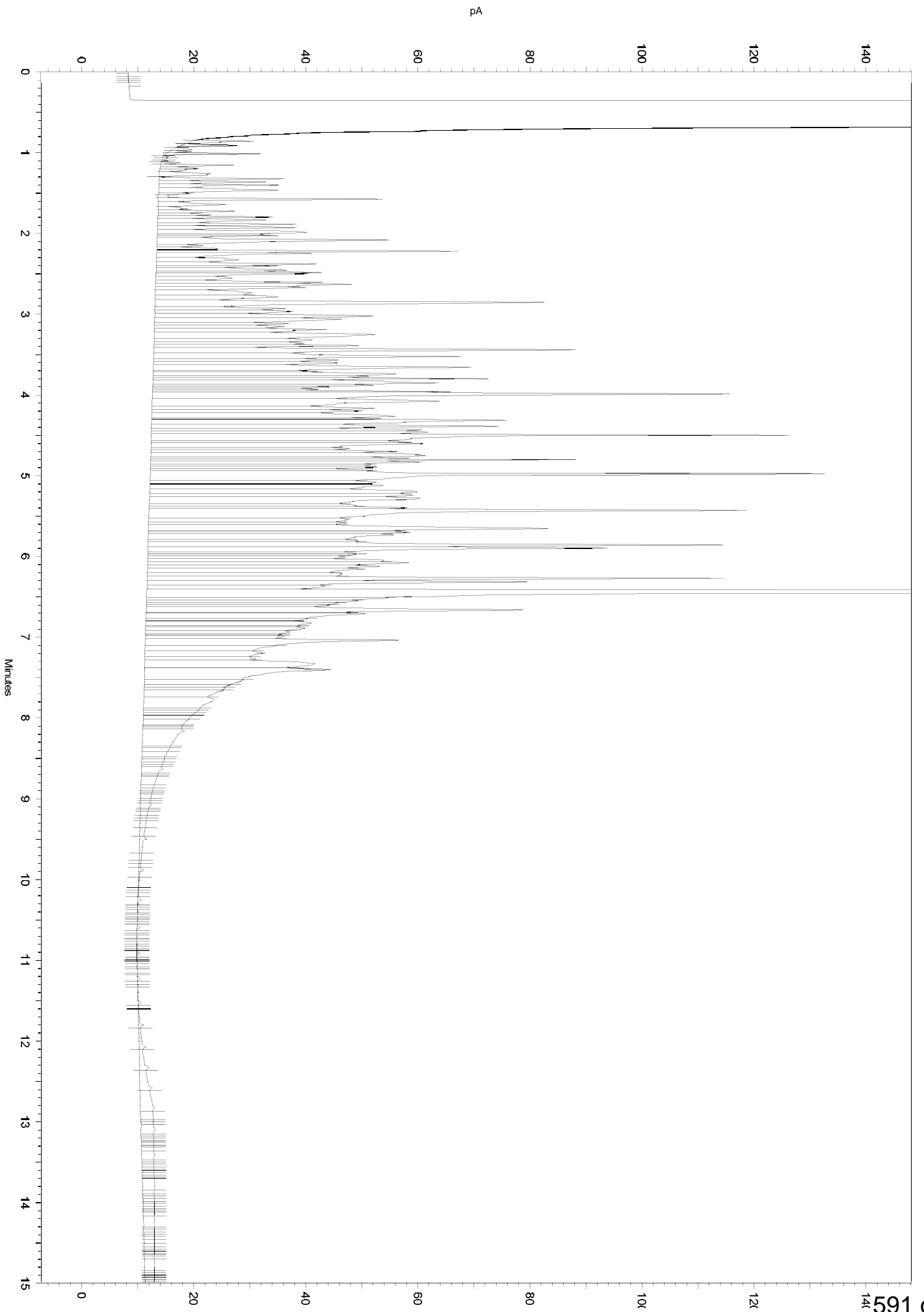
No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a177.dat				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.395	6.762	0



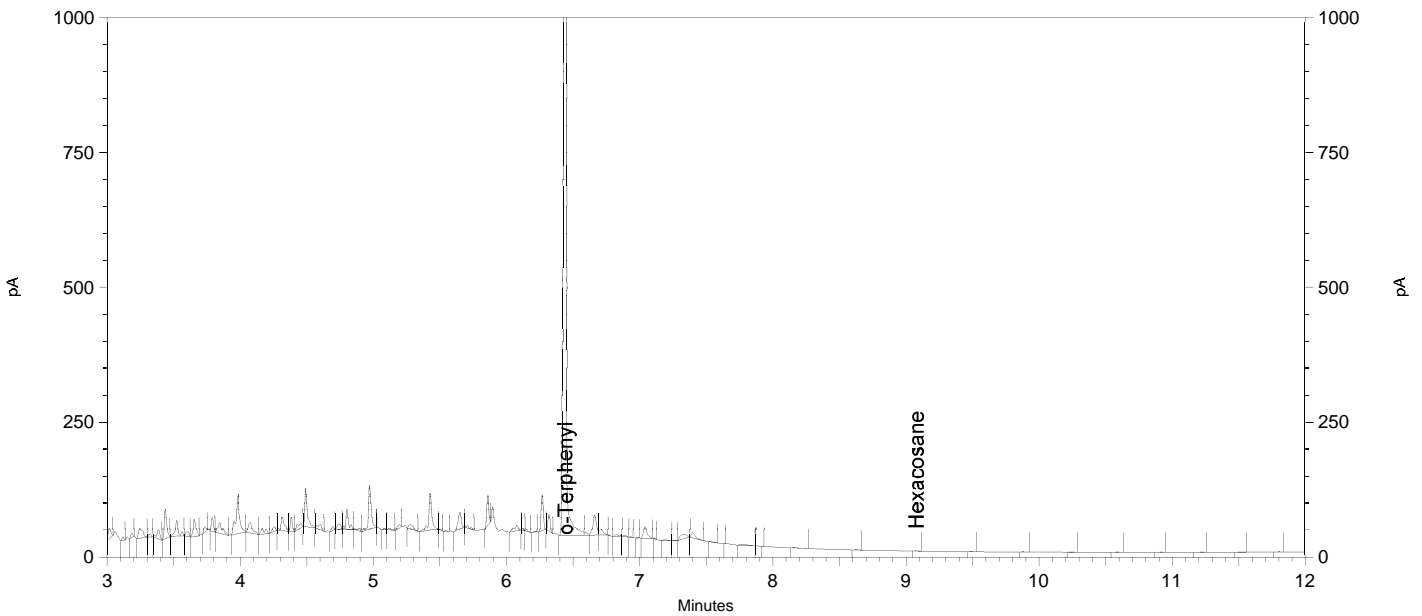
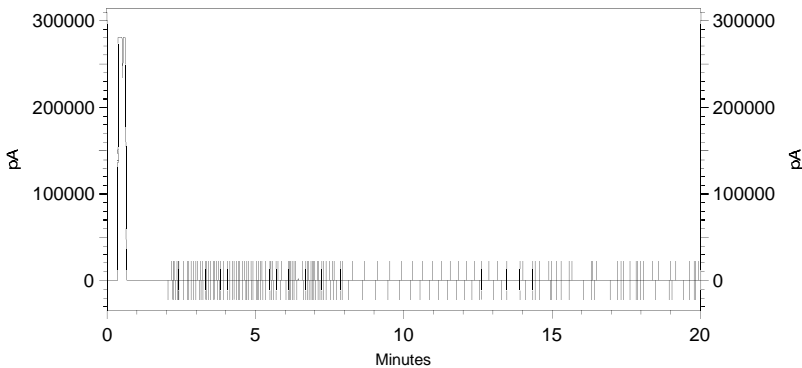
Sample Name: ccv,s39192,dsl_250
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a177.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/26/2019 7:43:46 PM
 Analysis Date: 1/27/2019 2:39:12 PM
 Instrument: GC27A Vial: 27 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.445	20962782	48.819
Hexacosane	9.075	6644	0.019



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a177.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.395	6.762	0

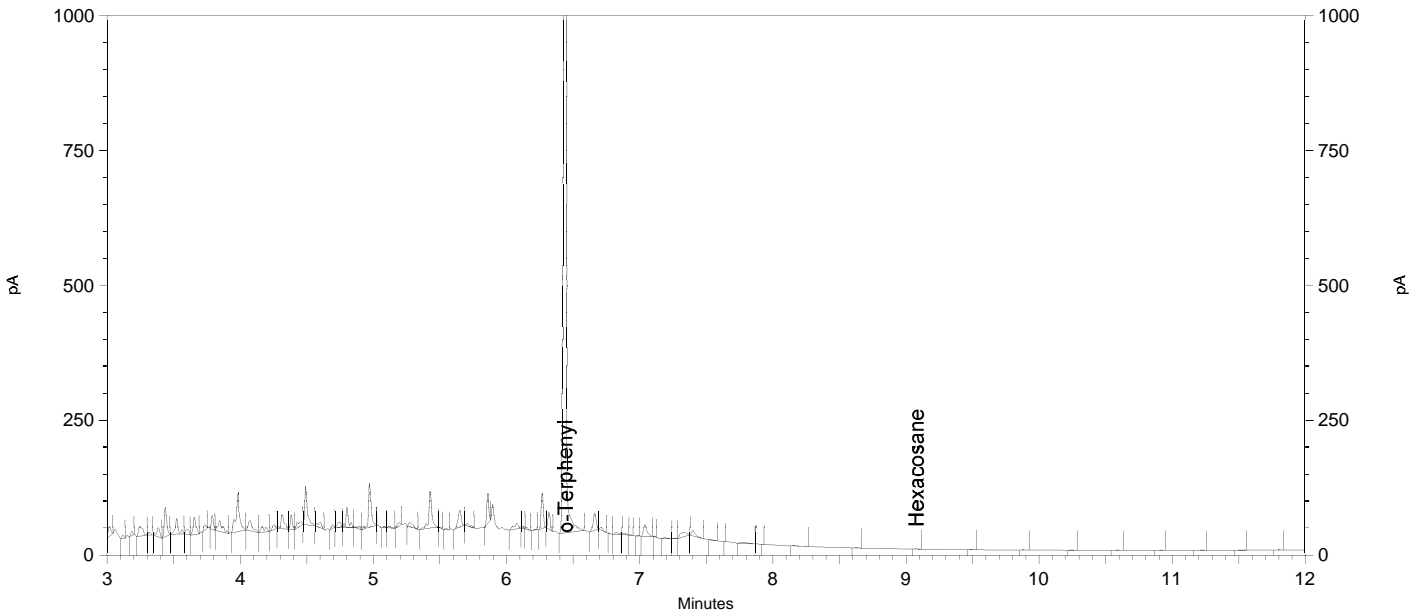
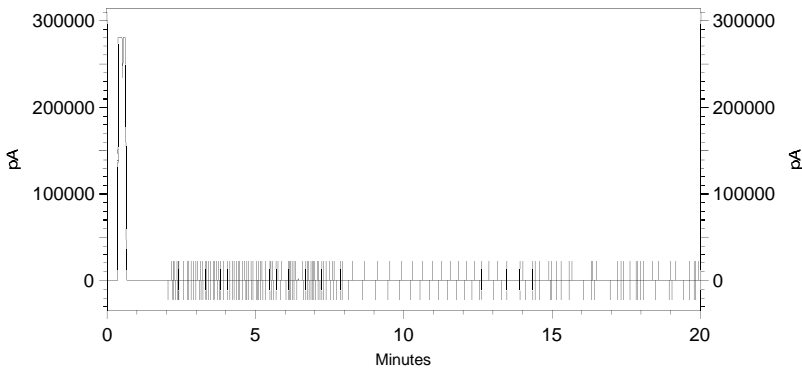
Sample Name: ccv,s39192,dsl_250
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a177.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/26/2019 7:43:46 PM
 Analysis Date: 1/27/2019 2:39:01 PM
 Instrument: GC27A Vial: 27 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.445	20755273	48.336
Hexacosane	9.075	6644	0.019



 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a177.dat

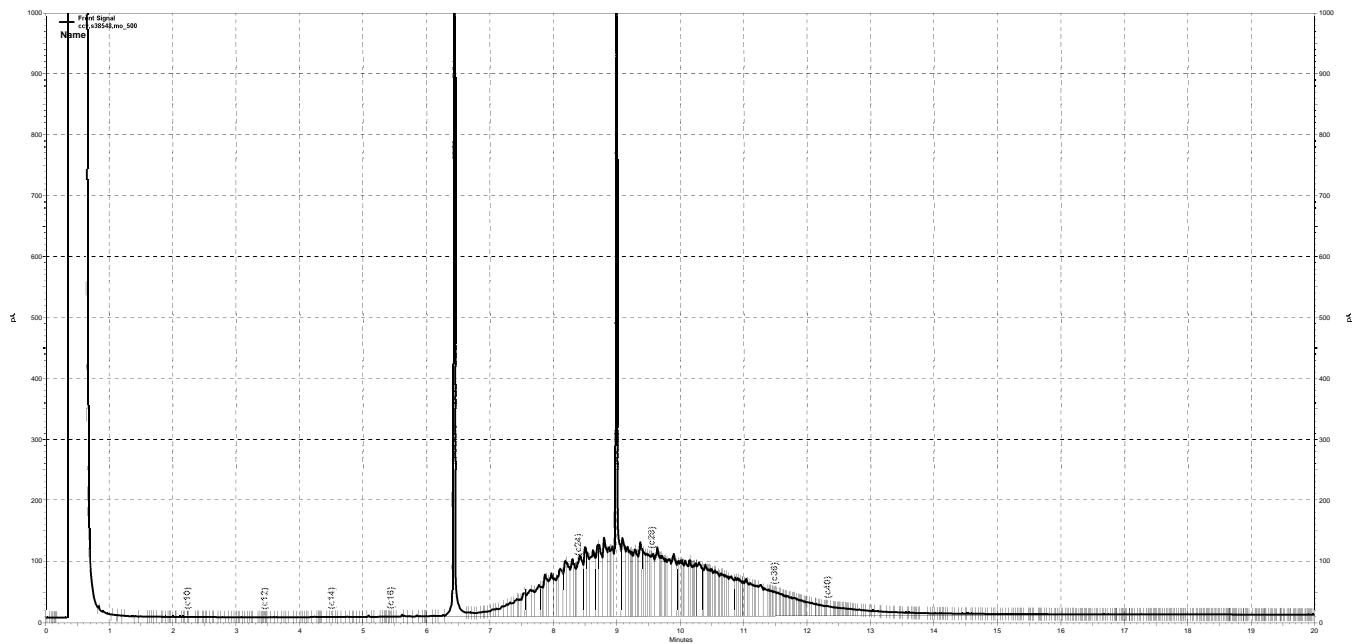
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 979033612178 File : 023a178 Time : 26-JAN-2019 20:08
 Standards: S38548

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	979020789002	14-JAN-2019	240064	246859	500.0	514.2	mg/L	3	15	
o-Terphenyl	979016508005	11-JAN-2019	429397	432932	50.00	50.41	mg/L	1	15	

Analyst: VO Date: 01/27/19 Reviewer: EAH Date: 01/28/19



— G:\ezchrom\Projects\GC27\Data\2019\023a178.dat, Front Signal

Sample Name: ccv,s38548,mo_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a178.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_021.met
 Run Date: 1/26/2019 8:08:08 PM
 Analysis Date: 1/27/2019 2:52:23 PM
 Instrument: GC27A Vial: 28 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		208877	0.441
DSL:10-14		56371	0.383
DSL:10-22		34040003	93.531
DSL:10-24		56931042	153.699
DSL:10-28		123135178	330.422
DSL:12-24		56909481	180.331
DSL:12-28		123113617	387.347
DSL:14-24		56882229	238.648
DSL:16-24		56754953	354.723
MO:22-32		133165096	572.644
MO:24-36		135223061	563.278
MO:28-40		77209504	504.544
BUNKC:10-40		195440967	967.192
BUNKC:12-40		195419406	997.554

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

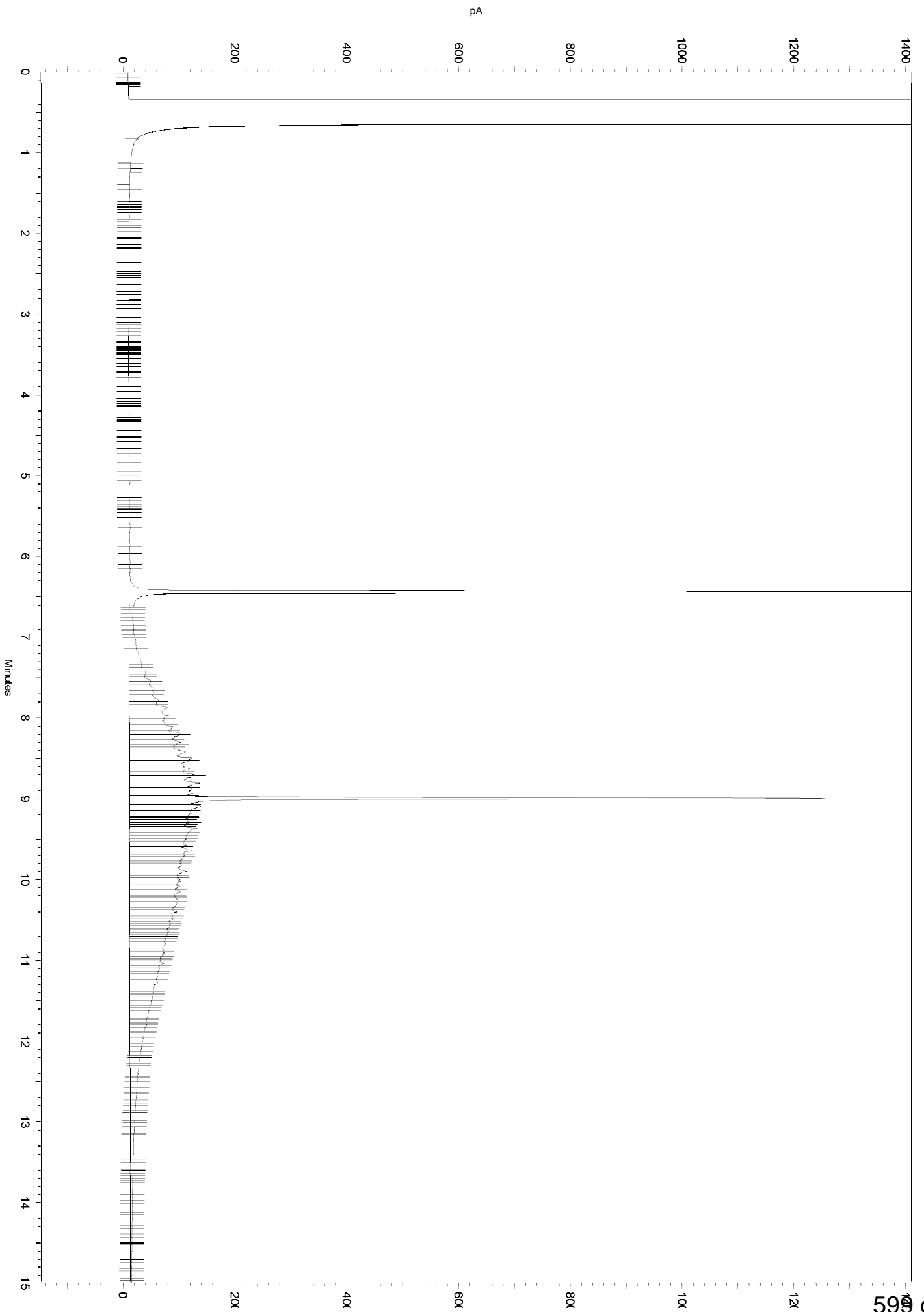
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold           0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\023a178.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



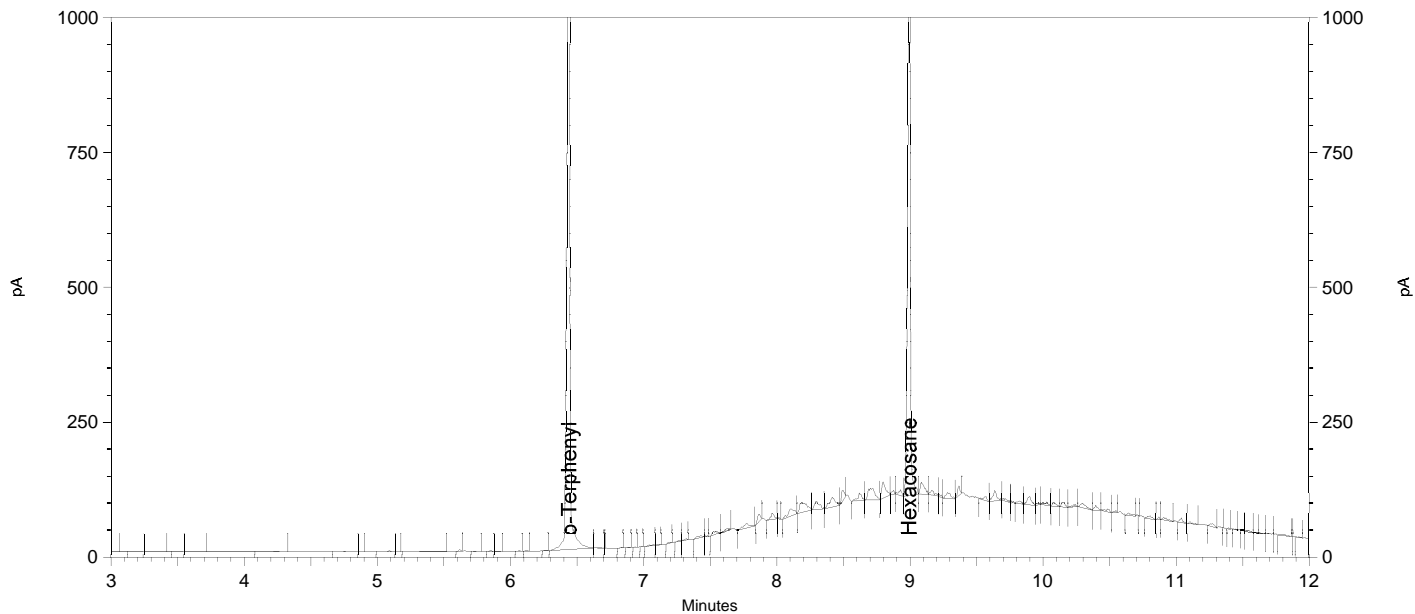
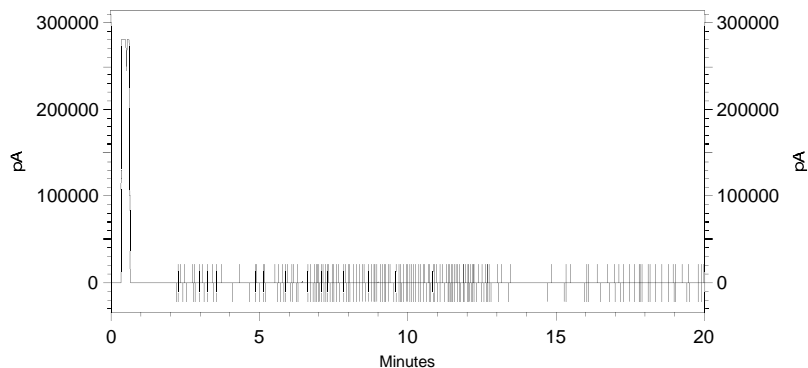
Sample Name: ccv,s38548,mo_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a178.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/26/2019 8:08:08 PM
 Analysis Date: 1/27/2019 2:39:20 PM
 Instrument: GC27A Vial: 28 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.443	21646576	50.412
Hexacosane	8.997	11793802	34.139



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a178.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

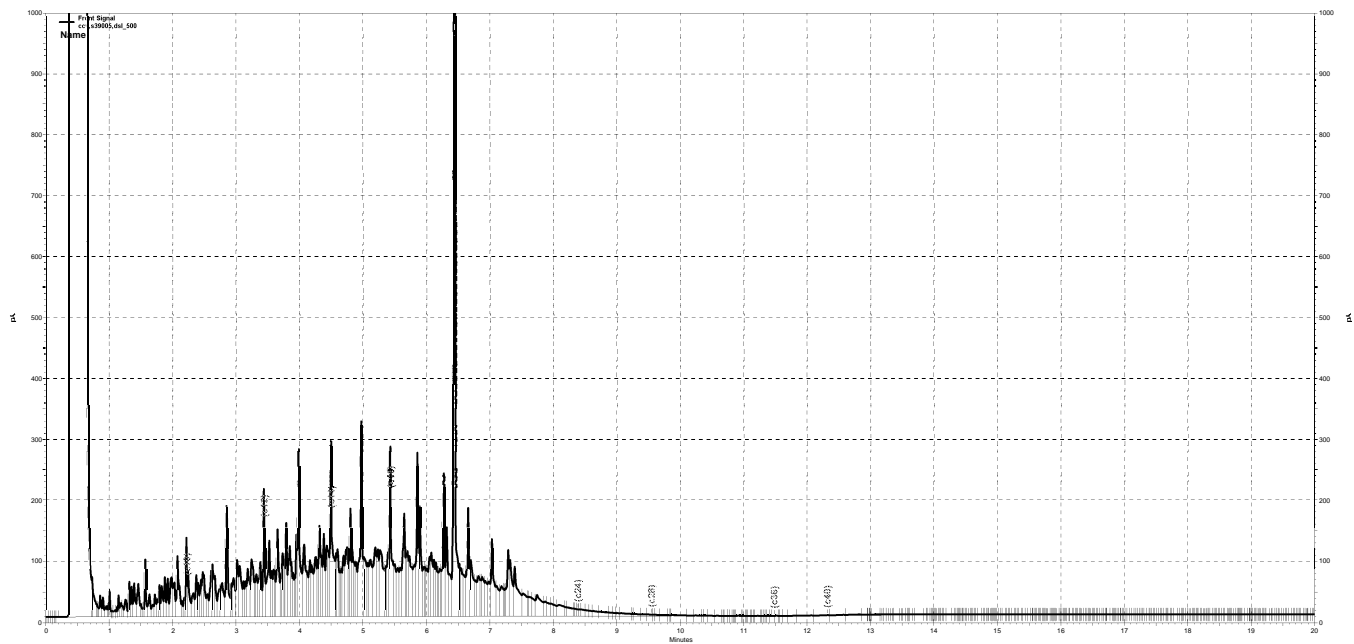
ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A Run Name : DSL_500 IDF : 1.0
Seqnum : 979033612191 File : 023a191 Time : 27-JAN-2019 01:29
Standards: S39005

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	979016508004	11-JAN-2019	370406	408679	500.0	551.7	mg/L	10	15	
o-Terphenyl	979016508005	11-JAN-2019	429397	486187	50.00	56.61	mg/L	13	15	

VQ 01/27/19 : Corrected automatically drawn baseline.

Analyst: VO Date: 01/27/19 Reviewer: EAH Date: 01/29/19
Page 1 of 1 979033612191



— G:\ezchrom\Projects\GC27\Data\2019\023a191.dat, Front Signal

Sample Name: ccv,s39005,dsl_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a191.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\TEH_021.met
 Run Date: 1/27/2019 1:29:27 AM
 Analysis Date: 1/27/2019 2:52:43 PM
 Instrument: GC27A Vial: 41 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		125133626	264.179
DSL:10-14		81168312	551.487
DSL:10-22		223976634	615.417
DSL:10-24		228648946	617.293
DSL:10-28		231198935	620.402
DSL:12-24		198487788	628.954
DSL:12-28		201037777	632.517
DSL:14-24		156176508	655.235
DSL:16-24		112325314	702.042
MO:22-32		9879461	42.484
MO:24-36		3803396	15.843
MO:28-40		630284	4.119
BUNKC:10-40		231621374	1146.241
BUNKC:12-40		201460216	1028.391

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

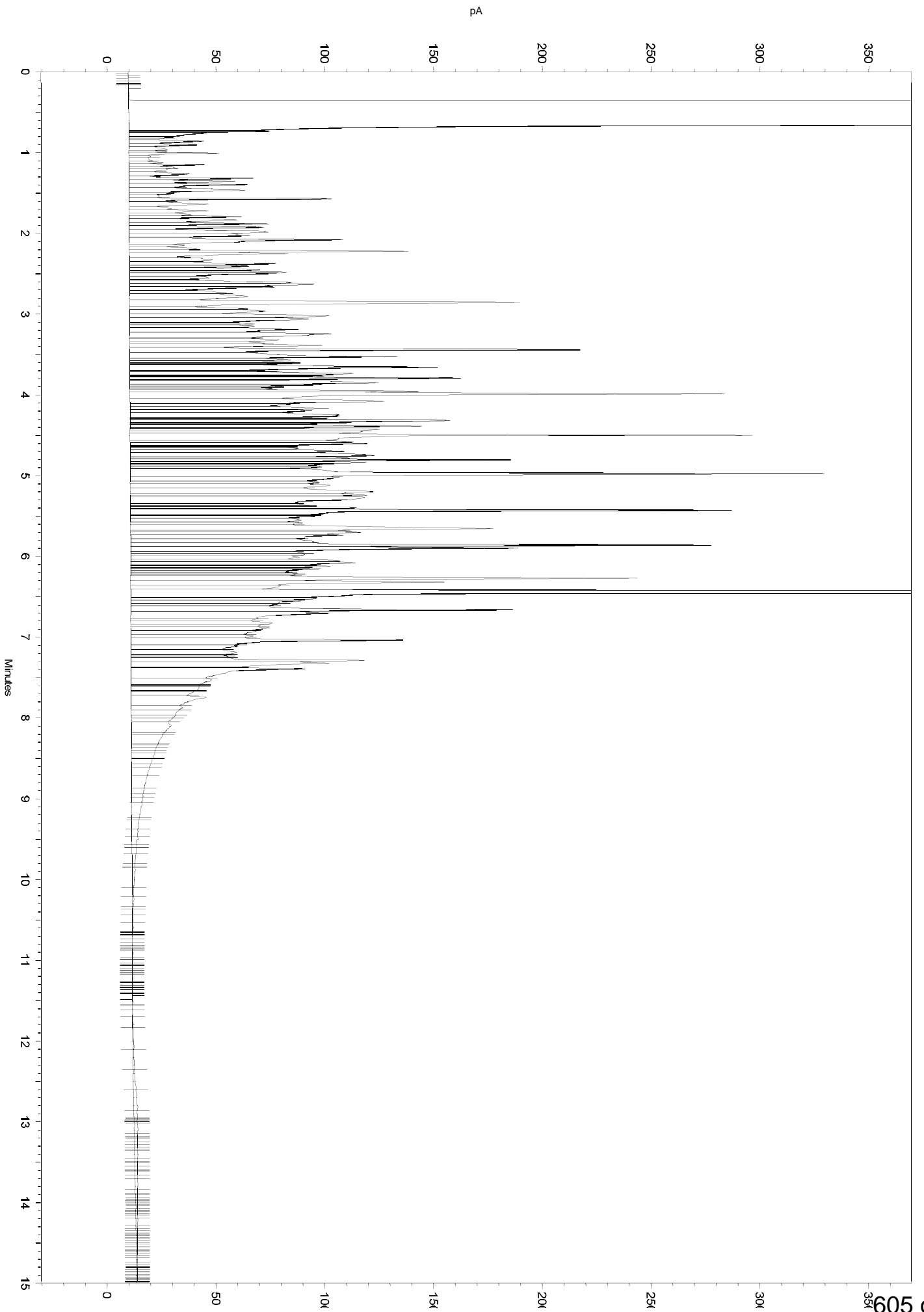
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a191.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.395	6.613	0
Yes	Move BL Start	1.033	0.079	0



Sample Name: **ccv,s39005,dsl_500**
 Data File: **G:\ezchrom\Projects\GC27\Data\2019\023a191.dat**
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2019\023.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\TEH_021.met**
 Run Date: **1/27/2019 1:29:27 AM**
 Analysis Date: **1/27/2019 2:52:33 PM**
 Instrument: **GC27A Vial: 41 Operator: teh4**
 Sample Amount: **1**

GC27a
TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		115910345	244.707
DSL:10-14		74123739	503.624
DSL:10-22		211038942	579.868
DSL:10-24		215058981	580.603
DSL:10-28		216868519	581.948
DSL:12-24		188714635	597.986
DSL:12-28		190524173	599.438
DSL:14-24		149245600	626.157
DSL:16-24		107576406	672.361
MO:22-32		8080332	34.747
MO:24-36		2708431	11.282
MO:28-40		347859	2.273
BUNKC:10-40		217100533	1074.380
BUNKC:12-40		190756187	973.750

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

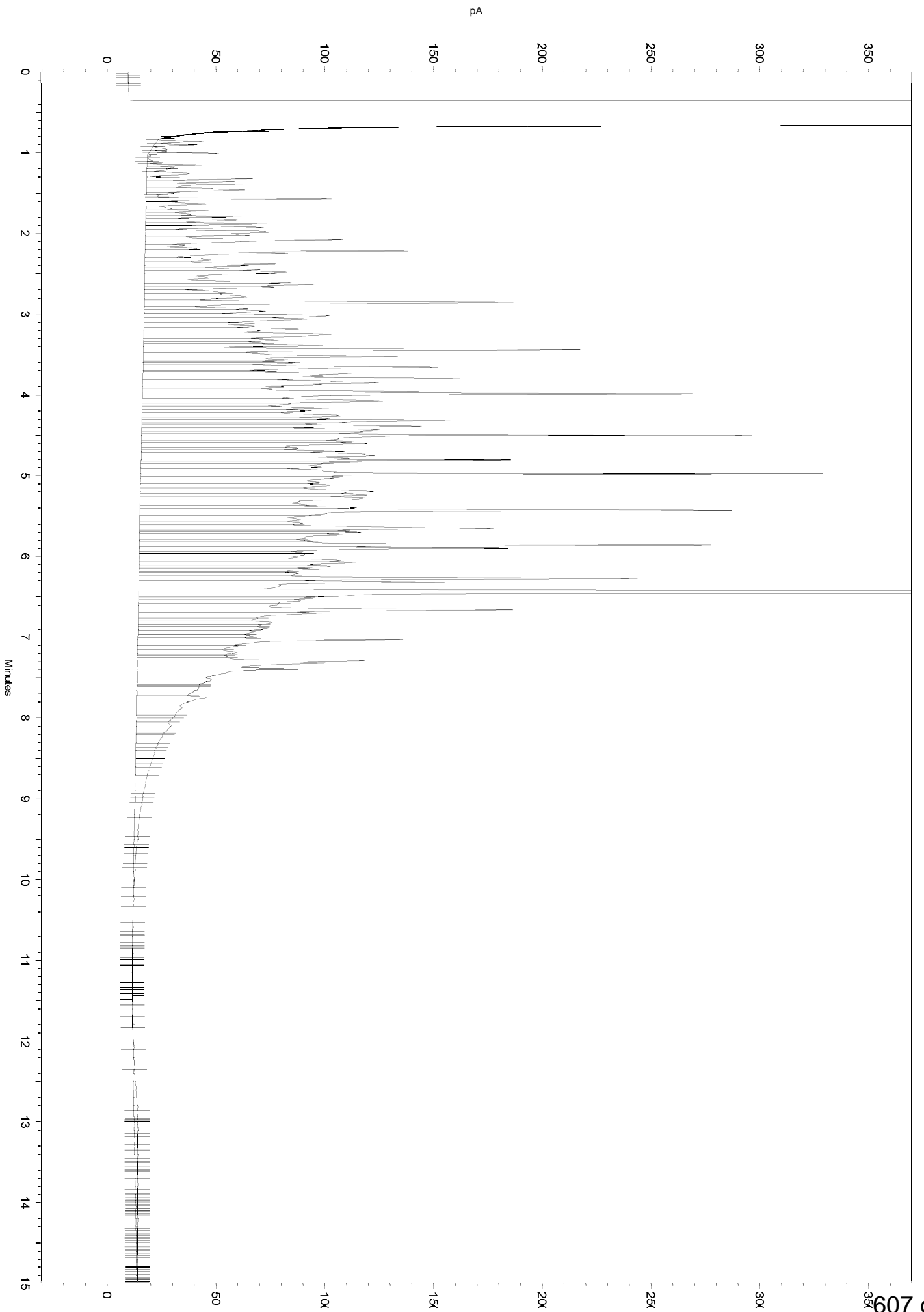
No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10

Manual Integration Fixes

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a191.dat				
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Baseline	6.395	6.613	0



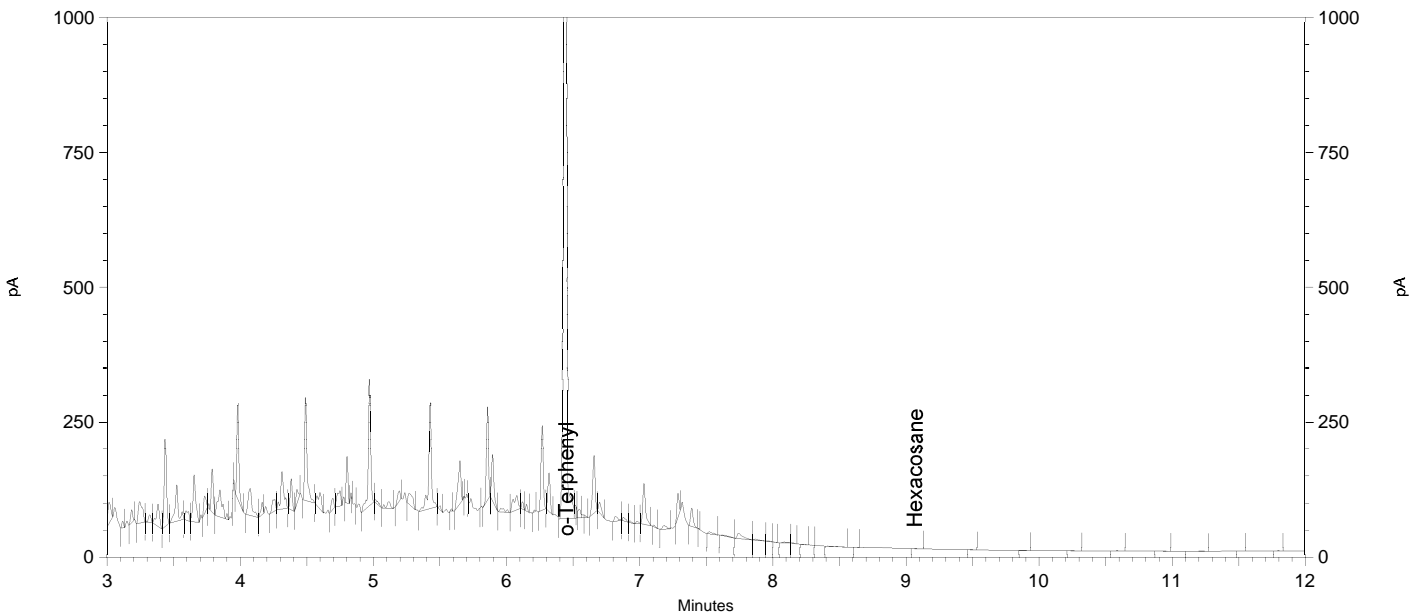
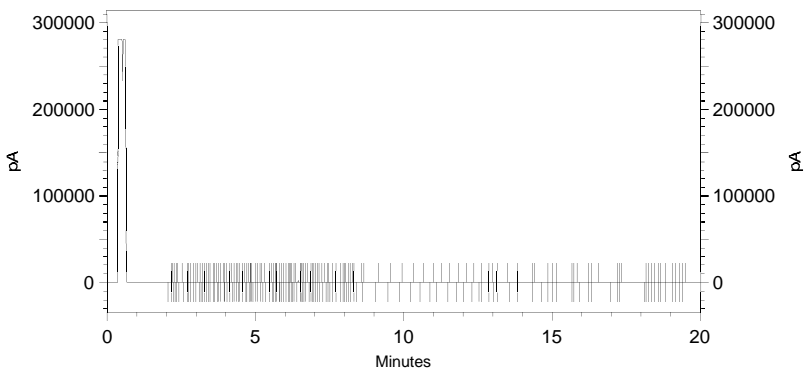
Sample Name: ccv,s39005,dsl_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a191.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/27/2019 1:29:27 AM
 Analysis Date: 1/27/2019 2:39:33 PM
 Instrument: GC27A Vial: 41 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.448	24309363	56.613
Hexacosane	9.068	7192	0.021



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a191.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	6.395	6.613	0

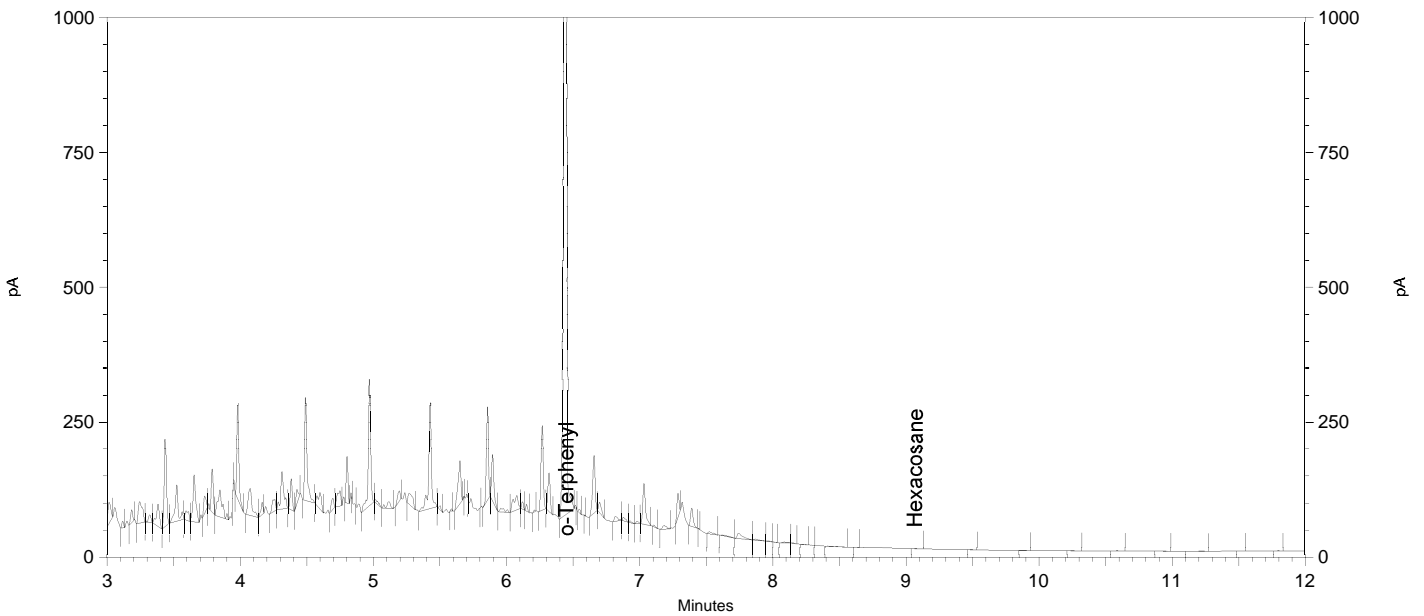
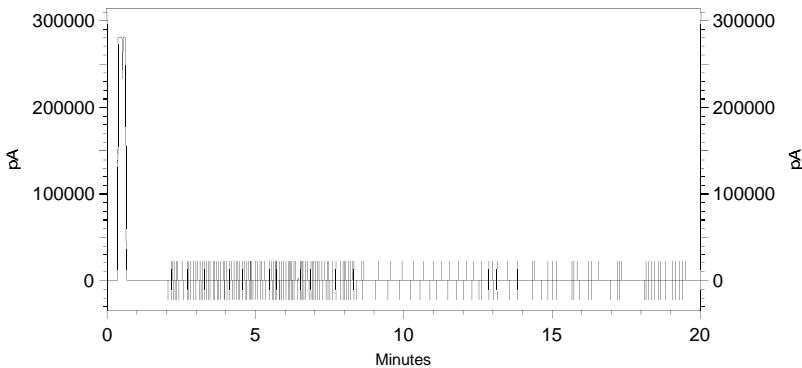
Sample Name: ccv,s39005,dsl_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a191.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/27/2019 1:29:27 AM
 Analysis Date: 1/27/2019 2:39:26 PM
 Instrument: GC27A Vial: 41 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.448	23877179	55.606
Hexacosane	9.068	7192	0.021



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a191.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY CONTINUING CALIBRATION FOR 306574 GCSV Water
EPA 8015B

Inst : GC27A Run Name : MO_500 IDF : 1.0
 Seqnum : 979033612192 File : 023a192 Time : 27-JAN-2019 01:54
 Standards: S38548

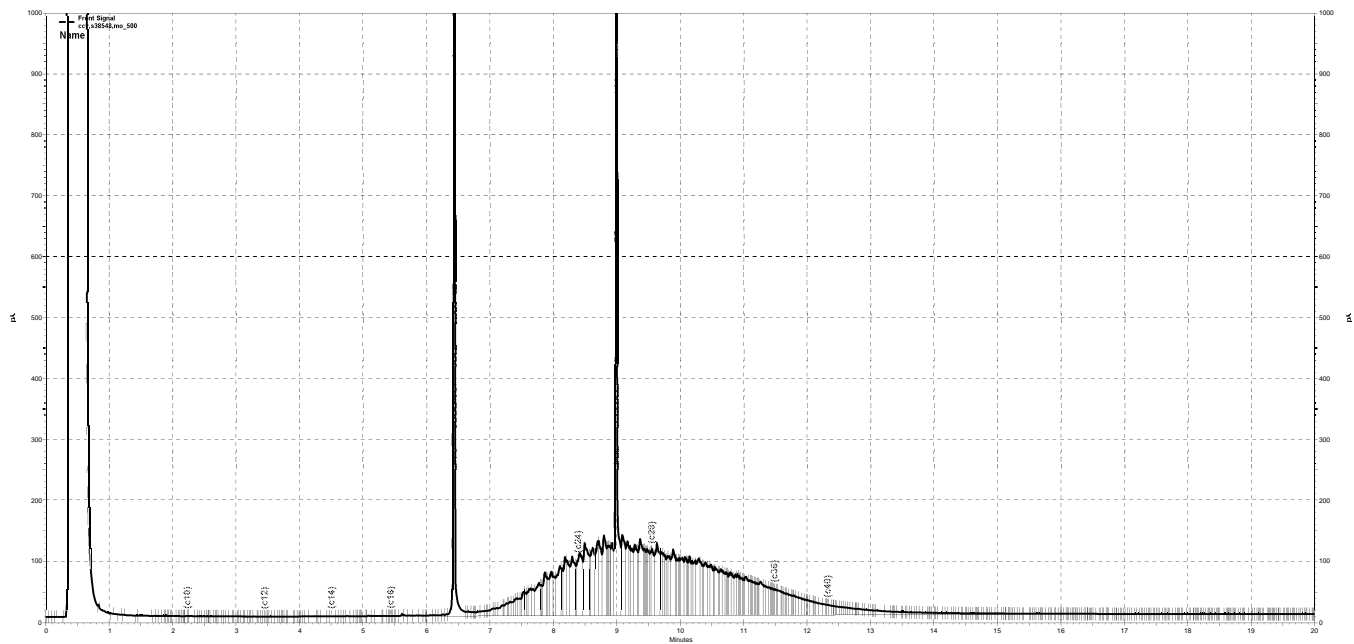
Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	979020789002	14-JAN-2019	240064	257997	500.0	537.3	mg/L	7	15	
o-Terphenyl	979016508005	11-JAN-2019	429397	448122	50.00	52.18	mg/L	4	15	

Analyst: VO

Date: 01/27/19

Reviewer: EAH

Date: 01/29/19



— G:\ezchrom\Projects\GC27\Data\2019\023a192.dat, Front Signal

Sample Name: **ccv,s38548,mo_500**
 Data File: **G:\ezchrom\Projects\GC27\Data\2019\023a192.dat**
 Sequence File: **G:\ezchrom\Projects\GC27\Sequence\2019\023.seq**
 Software Version 3.3.1 SP1
 Method Name: **G:\ezchrom\Projects\GC27\Method\TEH_021.met**
 Run Date: **1/27/2019 1:54:28 AM**
 Analysis Date: **1/27/2019 2:52:53 PM**
 Instrument: **GC27A Vial: 42 Operator: teh4**
 Sample Amount: **1**

GC27a
TEH - FID Instrument Results

Front Signal Results Component Name	Retention Time	Area	Concentration (ppm)
JP5:10-16		164513	0.347
DSL:10-14		38382	0.261
DSL:10-22		35527969	97.620
DSL:10-24		58421632	157.723
DSL:10-28		126446122	339.307
DSL:12-24		58403631	185.065
DSL:12-28		126428121	397.776
DSL:14-24		58387414	244.963
DSL:16-24		58291986	364.330
MO:22-32		138355060	594.962
MO:24-36		140412613	584.896
MO:28-40		82797363	541.059
BUNKC:10-40		203284132	1006.006
BUNKC:12-40		203266131	1037.610

? 0 0.000

 ---< General Method Parameters >-----

No items selected for this section

 ---< TST >-----

No items selected for this section

Integration Events

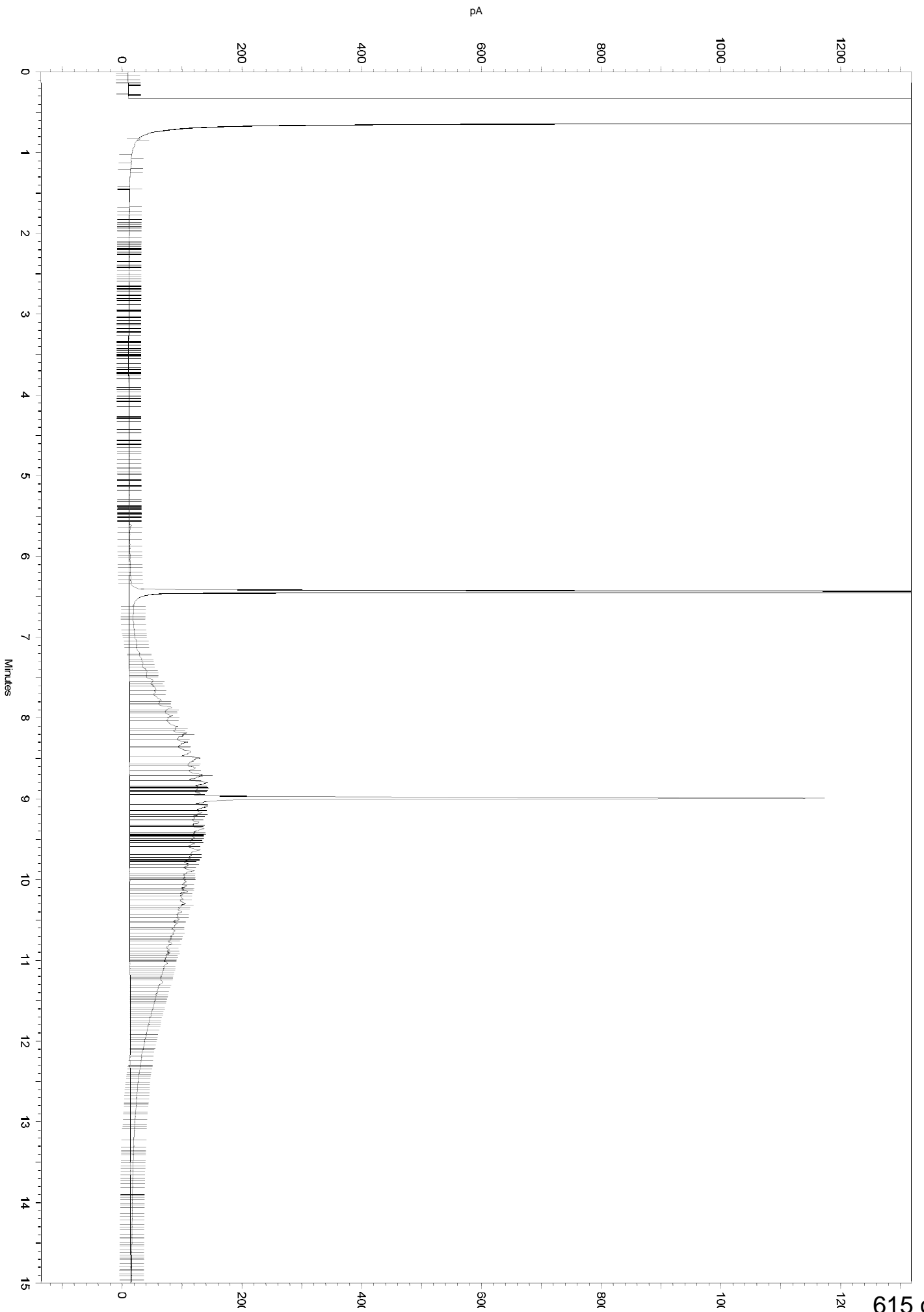
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0     0     0
Yes Threshold           0     0    10
  
```

Manual Integration Fixes

```

=====
Data File: G:\ezchrom\Projects\GC27\Data\2019\023a192.dat
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```



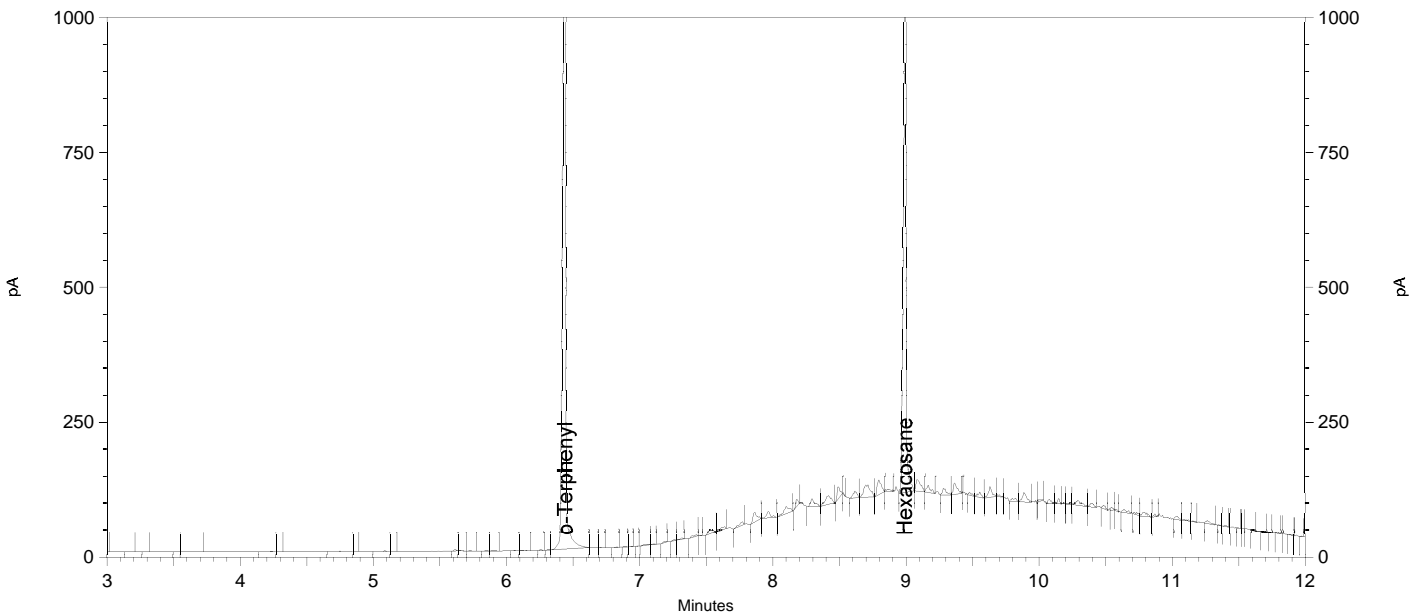
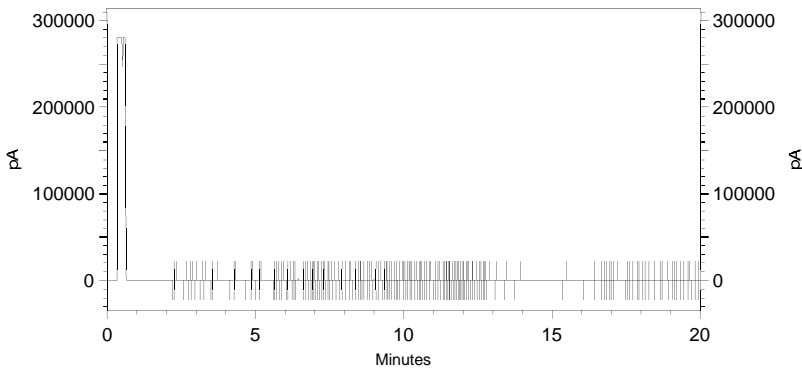
Sample Name: ccv,s38548,mo_500
 Data File: G:\ezchrom\Projects\GC27\Data\2019\023a192.dat
 Sequence File: G:\ezchrom\Projects\GC27\Sequence\2019\023.seq
 Software Version 3.3.1 SP1
 Method Name: G:\ezchrom\Projects\GC27\Method\SURRO_021.met
 Run Date: 1/27/2019 1:54:28 AM
 Analysis Date: 1/27/2019 2:39:40 PM
 Instrument: GC27A Vial: 42 Operator: teh4
 Sample Amount: 1

GC27a

TEH - FID Instrument Results

Front Signal Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.443	22406096	52.180
Hexacosane	8.993	11414262	33.040



 << General Method Parameters >>-----

No items selected for this section

 << TST >>-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Valley to Valley	0	15	0
Yes	Shoulder Sensitivity	0	15	500
Yes	Integration Off	0	2	0

Manual Integration Fixes

=====

Data File: G:\ezchrom\Projects\GC27\Data\2019\023a192.dat

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 306574

ANALYTICAL REPORT

Volatile Organics by GC/MS

TRC Solutions Inc. 505 Sansome St San Francisco, CA 94111	Project : 285830.02A.01 Location : Riley Soil Investigation Level : IV
---	--

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	306574-001
BR11-1GW02	306574-002
BR11-1GW03	306574-003
DUP01182019-01	306574-004
TB01182019	306574-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 02/05/2019

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

**CASE NARRATIVE
VOLATILE ORGANICS BY GC/MS (EPA 8260B)**

Laboratory number: 306574
Client: TRC Solutions Inc.
Project: 285830.02A.01
Location: Riley Soil Investigation
Request Date: 01/18/19
Samples Received: 01/18/19

This data package contains sample and QC results for five water samples, requested for the above referenced project on 01/18/19. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):

TB01182019 (lab # 306574-005) was analyzed with more than 1 mL of headspace in the VOA vial.

No other analytical problems were encountered.

Chain of Custody

CHAIN OF CUSTODY

ENTHALPY
ANALYTICAL
Formerly Curtis & Tompkins Labs

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Project No: 285830.02A.01

Project Name: Riley Avenue

Project P. O. No: 122947

EDD Format: TRC EQUIS Report Level II III IV

Turnaround Time: RUSH Standard

Sampler: Kevin Li, Nate Bember

Report To: Alfonso Ang

Company: TRC SOLUTIONS

Telephone: (415) 786-7830

Email: ang@trcsolutions.com

Phone (510) 486-0900
Fax (510) 486-0532

Formerly Curtis & Tompkins Labs

C&T LOGIN # 306574

Page 1 of 1

Chain of Custody # _____

ANALYTICAL REQUEST

Sample ID	TPH-g + BTX - 8015/8021	TPH-d, TPH-mo. with SGC - 8015	TPH-d, TPH-mo. w/out SGC - 8015	PAHS - 8270 SIM	Total Dissolved Solids (TDS) - SM2540C
BR11-1GW01	X	X	X	X	X
BR11-1GW02	X	X	X	X	X
BR11-1GW03	X	X	X	X	X
D4P01182019-01	X	X	X	X	X
TB01182019	X	X	X	X	X

Lab No.	Sample ID	SAMPLING		MATRIX	# of Containers	CHEMICAL PRESERVATIVE								
		Date Collected	Time Collected			Water	Solid	HCl	H2SO4	HNO3	NaOH	None		
	BR11-1GW01	01/18/19	11:11	X	9	X								
	BR11-1GW02	↓	12:42	X	9	X								
	BR11-1GW03	↓	9:54	X	9	X								
	D4P01182019-01	↓	11:11	X	9	X								
	TB01182019	↓	13:00	X	1	X								

Notes: Include Geotracker EDF
All results reported on a dry weight basis.
Please email cc the following:
jhenzel-dumbin@trcsolutions.com
kyle@trcsolutions.com
nberube@trcsolutions.com
Smilcan@trcsolutions.com
mpetlinkin@trcsolutions.com

SAMPLE RECEIPT
 Intact
 Cold
 On Ice
 Ambient

RELINQUISHED BY:
DATE: 01/18/19 TIME: 16:25
DATE: 1-18-19 TIME: 17:25

RECEIVED BY:
DATE: 1-18-19 TIME: 4:25
DATE: 1-18-19 TIME: 17:25

Report Level IV data packages and include chromatographs

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 306574
 Date Received: 1/18/19

Client: TRE
 Project: _____

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun # A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 1/18/19 By (print) AC (sign) [Signature]
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 4.2, #2: 4.9, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	/		
Were Method 5035 sampling containers present?			/
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm absent in VOA samples?		/	
Was the client contacted concerning this sample delivery?		/	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			/
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6: Explanations/Comments: X Sample 5 1/1 VO2's arrived with bubbles

Date Logged In 1/18/19 By (print) AC (sign) [Signature]
 Date Labeled 1/19/19 By (print) AC (sign) [Signature]

Results & QC Summary

Purgeable Aromatics by GC/MS

Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8260B
Field ID:	BR11-1GW01	Batch#:	267281
Lab ID:	306574-001	Sampled:	01/18/19
Matrix:	Water	Received:	01/18/19
Units:	ug/L	Analyzed:	01/26/19
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-121
1,2-Dichloroethane-d4	91	80-134
Toluene-d8	89	80-120
Bromofluorobenzene	93	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Aromatics by GC/MS

Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8260B
Field ID:	BR11-1GW02	Batch#:	267281
Lab ID:	306574-002	Sampled:	01/18/19
Matrix:	Water	Received:	01/18/19
Units:	ug/L	Analyzed:	01/26/19
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	89	80-134
Toluene-d8	91	80-120
Bromofluorobenzene	94	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Aromatics by GC/MS

Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8260B
Field ID:	BR11-1GW03	Batch#:	267281
Lab ID:	306574-003	Sampled:	01/18/19
Matrix:	Water	Received:	01/18/19
Units:	ug/L	Analyzed:	01/26/19
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-121
1,2-Dichloroethane-d4	91	80-134
Toluene-d8	91	80-120
Bromofluorobenzene	95	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Aromatics by GC/MS

Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8260B
Field ID:	DUP01182019-01	Batch#:	267281
Lab ID:	306574-004	Sampled:	01/18/19
Matrix:	Water	Received:	01/18/19
Units:	ug/L	Analyzed:	01/26/19
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	90	80-134
Toluene-d8	91	80-120
Bromofluorobenzene	93	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Aromatics by GC/MS

Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8260B
Field ID:	TB01182019	Batch#:	267281
Lab ID:	306574-005	Sampled:	01/18/19
Matrix:	Water	Received:	01/18/19
Units:	ug/L	Analyzed:	01/26/19
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	91	80-134
Toluene-d8	90	80-120
Bromofluorobenzene	93	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Aromatics by GC/MS			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	267281
Units:	ug/L	Analyzed:	01/26/19
Diln Fac:	1.000		

Type: BS Lab ID: QC962718

Analyte	Spiked	Result	%REC	Limits
MTBE	12.50	12.13	97	66-124
Benzene	12.50	12.37	99	75-122
Toluene	12.50	11.92	95	78-120
Ethylbenzene	12.50	11.98	96	78-120
m,p-Xylenes	25.00	23.59	94	79-122
o-Xylene	12.50	12.07	97	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	89	80-134
Toluene-d8	93	80-120
Bromofluorobenzene	93	80-120

Type: BSD Lab ID: QC962719

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	12.50	11.99	96	66-124	1	20
Benzene	12.50	11.62	93	75-122	6	20
Toluene	12.50	11.44	91	78-120	4	20
Ethylbenzene	12.50	11.37	91	78-120	5	20
m,p-Xylenes	25.00	22.38	90	79-122	5	20
o-Xylene	12.50	11.93	95	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-121
1,2-Dichloroethane-d4	89	80-134
Toluene-d8	92	80-120
Bromofluorobenzene	91	80-120

RPD= Relative Percent Difference

Batch QC Report

Purgeable Aromatics by GC/MS			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC962720	Batch#:	267281
Matrix:	Water	Analyzed:	01/26/19
Units:	ug/L		

Analyte	Result	RL
MTBE	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	88	80-134
Toluene-d8	92	80-120
Bromofluorobenzene	92	80-120

ND= Not Detected
 RL= Reporting Limit

ENTHALPY BFB TUNE FOR 306574 MSVOA Water
EPA 8260B

Inst : MSVOA10 Run Name : 50NG IDF : 1.0
Seqnum : 499010456008 File : ja708 Time : 07-JAN-2019 11:39

Standards: S37613

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	41253	25.04	
75	30% - 60% of mass 95	84883	51.52	
95		164757	100.00	
96	5% - 9% of mass 95	11559	7.02	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	105451	64.00	
175	5% - 9% of mass 174	7934	7.52	
176	> 95% and < 101% of mass 174	103069	97.74	
177	5% - 9% of mass 176	6707	6.51	

Analyst: MCT Date: 01/08/19 Reviewer: LW Date: 01/08/19

ENTHALPY BFB TUNE FOR 306574 MSVOA Water
EPA 8260B

Inst : MSVOA10 Run Name : 50NG IDF : 1.0
Seqnum : 499037978002 File : jaq02 Time : 26-JAN-2019 09:25

Standards: S39414

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	36373	24.31	
75	30% - 60% of mass 95	73400	49.05	
95		149632	100.00	
96	5% - 9% of mass 95	10615	7.09	
173	< 2% of mass 174	289	0.30	
174	> 50% and < 100% of mass 95	94853	63.39	
175	5% - 9% of mass 174	6769	7.14	
176	> 95% and < 101% of mass 174	92565	97.59	
177	5% - 9% of mass 176	6231	6.73	

Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

ENTHALPY INITIAL CALIBRATION FOR 306574 MSVOA Water: EPA 8260B

Inst : MSVOA10
 Calnum : 499010456001
 Units : ug/L

Name : 8260XW10
 Date : 07-JAN-2019 14:23
 X Axis : R

Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds				
L1	ja713	499010456013		07-JAN-2019 14:23	S37791 (2000000X),	S39030 (2000000X),	S39361 (2000000X),	S37362 (1000000X),	S39315 (2500X)
L2	ja714	499010456014		07-JAN-2019 14:54	S37791 (1000000X),	S39030 (1000000X),	S39361 (1000000X),	S37362 (500000X),	S39315 (2500X)
L3	ja715	499010456015		07-JAN-2019 15:26	S37791 (500000X),	S39030 (250000X),	S39361 (250000X),	S37362 (250000X),	S39315 (2500X)
L4	ja716	499010456016		07-JAN-2019 15:58	S37791 (200000X),	S39030 (100000X),	S39361 (100000X),	S37362 (100000X),	S39315 (2500X)
L5	ja717	499010456017		07-JAN-2019 16:29	S37791 (100000X),	S39030 (50000X),	S39361 (50000X),	S37362 (50000X),	S39315 (2500X)
L6	ja718	499010456018		07-JAN-2019 17:00	S37791 (50000X),	S39030 (25000X),	S39361 (25000X),	S37362 (25000X),	S39315 (2500X)
L7	ja719	499010456019		07-JAN-2019 17:32	S37791 (20000X),	S39030 (10000X),	S39361 (10000X),	S37362 (10000X),	S39315 (2500X)
L8	ja720	499010456020		07-JAN-2019 18:03	S37791 (13330X),	S39030 (6667X),	S39361 (6667X),	S37362 (6667X),	S39315 (2500X)
L9	ja721	499010456021		07-JAN-2019 18:34	S37791 (10000X),	S39030 (5000X),	S39361 (5000X),	S37362 (5000X),	S39315 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
MTBE		2.6960	2.7167	2.6527	2.6506	2.4942	2.4601	2.3835	2.2846	AVRG		0.39335		2.5423	6	15	0.05	0.99	
Benzene		1.8500	1.7878	1.8502	1.8419	1.7700	1.7593	1.7391	1.7101	AVRG		0.55911		1.7886	3	15	0.05	0.99	
Toluene		2.2174	2.0541	2.1623	2.0565	2.0512	2.0468	2.0007	1.9870	AVRG		0.48262		2.0720	4	15	0.05	0.99	
Ethylbenzene		2.3885	2.3115	2.4448	2.3852	2.3274	2.3085	2.2543	2.2193	AVRG		0.42919		2.3299	3	15	0.05	0.99	
m,p-Xylenes	0.8784	0.8937	0.8323	0.8925	0.8517	0.8449	0.8509	0.8509	0.8314	AVRG		1.16480		0.8585	3	15	0.05	0.99	
o-Xylene		0.7744	0.8206	0.8555	0.8391	0.8410	0.8473	0.8348	0.8313	AVRG		1.20412		0.8305	3	15	0.05	0.99	
Dibromofluoromethane	0.7421	0.7517	0.7400	0.7664	0.7474	0.7508	0.7438	0.7409	0.7371	AVRG		1.33923		0.7467	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.4864	0.4918	0.4971	0.4820	0.4878	0.4695	0.4523	0.4282	0.4030	AVRG		2.14378		0.4665	7	15	0.05	0.99	
Toluene-d8	1.3905	1.4249	1.4193	1.4557	1.4342	1.4328	1.4547	1.4168	1.4132	AVRG		0.70082		1.4269	1	15	0.05	0.99	
Bromofluorobenzene	1.2660	1.2663	1.2501	1.2411	1.2359	1.2329	1.2086	1.1780	1.1611	AVRG		0.81522		1.2267	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
MTBE			0.5000	6	2.0000	7	5.0000	4	10.000	4	20.000	-2	50.000	-3	75.000	-6	100.00	-10
Benzene			0.5000	3	2.0000	0	5.0000	3	10.000	3	20.000	-1	50.000	-2	75.000	-3	100.00	-4
Toluene			0.5000	7	2.0000	-1	5.0000	4	10.000	-1	20.000	-1	50.000	-1	75.000	-3	100.00	-4
Ethylbenzene			0.5000	3	2.0000	-1	5.0000	5	10.000	2	20.000	0	50.000	-1	75.000	-3	100.00	-5
m,p-Xylenes	0.5000	2	1.0000	4	4.0000	-3	10.000	4	20.000	-1	40.000	-2	100.00	-1	150.00	-1	200.00	-3
o-Xylene			0.5000	-7	2.0000	-1	5.0000	3	10.000	1	20.000	1	50.000	2	75.000	1	100.00	0
Dibromofluoromethane	50.000	-1	50.000	1	50.000	-1	50.000	3	50.000	0	50.000	1	50.000	0	50.000	-1	50.000	-1
1,2-Dichloroethane-d4	50.000	4	50.000	5	50.000	7	50.000	3	50.000	5	50.000	1	50.000	-3	50.000	-8	50.000	-14
Toluene-d8	50.000	-3	50.000	0	50.000	-1	50.000	2	50.000	1	50.000	0	50.000	2	50.000	-1	50.000	-1
Bromofluorobenzene	50.000	3	50.000	3	50.000	2	50.000	1	50.000	1	50.000	1	50.000	-1	50.000	-4	50.000	-5

MCT 01/08/19 [Freon 12]: Combined split peak in multiple levels.

MCT 01/08/19 [Chloromethane]: Combined split peak in multiple levels.
MCT 01/08/19 [Vinyl Chloride]: Combined split peak in multiple levels.
MCT 01/08/19 [Chloroethane]: Combined split peak in multiple levels.
MCT 01/08/19 [Vinyl Acetate]: Corrected automatically drawn baseline in multiple levels.
MCT 01/08/19 [1,2-Dichloropropane]: Separated from coeluting peak in multiple levels.
MCT 01/08/19 [1,2,3-Trichloropropane]: Separated from coeluting peak in multiple levels.
MCT 01/08/19 [Bromomethane]: ICV failed high.
MCT 01/08/19 [Acetone]: ICV failed low (-31%)
MCT 01/09/19 [Iodomethane]: Combined split peak in (ja721).

Analyst: MCT

Date: 01/09/19

Reviewer: LW

Date: 01/09/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 MSVOA Water
EPA 8260B

Inst : MSVOA10 Name : 8260XW10
Calnum : 499010456001 Cal Date : 07-JAN-2019 Type : WATER

ICV 499010456022 (ja722 07-JAN-2019) stds: S39081 (10000X), S39228 (10000X), S39033 (10000X), S36178 (10000X), S39315 (2500X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
MTBE	25.00	23.23	ug/L	-7	30	
Benzene	25.00	23.86	ug/L	-5	30	
Toluene	25.00	24.27	ug/L	-3	20	
Ethylbenzene	25.00	24.41	ug/L	-2	20	
m,p-Xylenes	50.00	48.60	ug/L	-3	30	
o-Xylene	25.00	25.27	ug/L	1	30	

Analyst: MCT Date: 01/09/19 Reviewer: LW Date: 01/09/19

ENTHALPY SPIKE USER REPORT FOR 306574 MSVOA Water
EPA 8260B

Inst : MSVOA10 Run Name : QC962718 IDF : 1.0
 Seqnum : 499037978003.2 File : jaq03 Time : 26-JAN-2019 09:58
 Cal : 499010456001 Caldate : 07-JAN-2019 Caltype : WATER
 Standards: S39081 (20000X), S39228 (20000X), S39033 (20000X), S36178 (20000X),
 S39494 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
MTBE	2.5423	2.4680	12.50	12.13	ug/L	-3	30	0.0500	u
Benzene	1.7886	1.7705	12.50	12.37	ug/L	-1	30	0.0500	u
Toluene	2.0720	1.9756	12.50	11.92	ug/L	-5	20	0.0500	u
Ethylbenzene	2.3299	2.2325	12.50	11.98	ug/L	-4	20	0.0500	u
m,p-Xylenes	0.8585	0.8100	25.00	23.59	ug/L	-6	30	0.0500	u
o-Xylene	0.8305	0.8018	12.50	12.07	ug/L	-3	30	0.0500	u
Dibromofluoromethane	0.7467	0.7158	50.00	47.93	ug/L	-4	30	0.0500	u
1,2-Dichloroethane-d4	0.4665	0.4136	50.00	44.34	ug/L	-11	30	0.0500	u
Toluene-d8	1.4269	1.3306	50.00	46.62	ug/L	-7	30	0.0500	u
Bromofluorobenzene	1.2267	1.1373	50.00	46.36	ug/L	-7	30	0.0500	u

ISTD (ICAL ja719)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	473385	510088	7.75	10.40	10.37	-0.03
1,4-Difluorobenzene	853668	996444	16.73	11.56	11.54	-0.02
Chlorobenzene-d5	705270	832071	17.98	15.61	15.58	-0.03
1,4-Dichlorobenzene-d4	345170	393291	13.94	18.30	18.28	-0.02

TEW 01/28/19 : Integrations performed by another analyst, likely AHT. [general version]

TEW 01/28/19 [Freon 12]: Combined split peak. [general version]

TEW 01/28/19 [Bromomethane]: Combined split peak. [general version]

Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

u=use

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 499037978

Date : 01/26/19
 Sequence : MSVOA10 jaq

Reference : ja719
 Analyzed : 01/07/19 17:32

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	473385	10.40	853668	11.56	705270	15.61	345170	18.30
		LOWER LIMIT	236693	9.90	426834	11.06	352635	15.11	172585	17.80
		UPPER LIMIT	946770	10.90	1707336	12.06	1410540	16.11	690340	18.80
001	IB		554842	10.37	1056773	11.53	900856	15.58	405471	18.28
003	CCV/BS	QC962718	510088	10.37	996444	11.54	832071	15.58	393291	18.28
004	BSD	QC962719	521669	10.37	1000226	11.53	843299	15.58	403554	18.28
005	IB		525249	10.37	1022242	11.53	844760	15.58	396247	18.29
006	BLANK	QC962720	500663	10.37	979851	11.54	834116	15.58	385679	18.28
007	SAMPLE	306574-005	498330	10.38	960230	11.53	827599	15.58	381318	18.28
008	SAMPLE	306574-001	500583	10.37	959041	11.53	827845	15.59	377120	18.29
009	SAMPLE	306574-004	503878	10.38	961376	11.54	815530	15.58	369759	18.28
010	SAMPLE	306574-002	505459	10.37	959279	11.54	822221	15.59	372235	18.29
011	SAMPLE	306574-003	503243	10.38	946759	11.54	812126	15.58	361035	18.28
012	SAMPLE	306722-014	488020	10.37	943033	11.54	804048	15.59	363594	18.29
013	SAMPLE	306722-015	495803	10.37	949048	11.53	815968	15.59	362427	18.29
014	SAMPLE	306722-016	489901	10.37	932837	11.53	793291	15.59	359330	18.29
015	SAMPLE	306722-017	488832	10.38	934960	11.54	793993	15.58	367050	18.29
016	SAMPLE	306722-018	488420	10.38	944433	11.54	793330	15.58	361478	18.28
017	SAMPLE	306722-019	477804	10.38	929776	11.54	791714	15.58	365259	18.29
018	SAMPLE	306577-007	485911	10.38	926005	11.54	798759	15.58	356573	18.29
019	SAMPLE	306621-002	489315	10.38	941378	11.54	795168	15.58	388802	18.29
020	SAMPLE	306631-008	529145	10.37	998711	11.53	859695	15.59	406413	18.29
021	SAMPLE	306631-009	532740	10.37	1029500	11.54	879982	15.58	404009	18.28
022	SAMPLE	306619-001	536672	10.37	1023107	11.54	866938	15.58	396939	18.28
023	IB	HG	541386	10.37	1031671	11.54	882454	15.58	400211	18.28
024	IB		526787	10.37	1018734	11.54	869619	15.58	397390	18.28
025	IB		520811	10.37	1004539	11.54	859841	15.58	390082	18.28
026	IB		525127	10.38	1010877	11.54	848311	15.58	384496	18.29
027	IB		517543	10.38	970486	11.53	846412	15.59	382760	18.28
028	IB		512183	10.38	981219	11.54	836318	15.58	382531	18.28

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 499010456

Instrument : MSVOA10 Begun : 01/07/19 06:16
 Method : EPA 8260B SOP Version : msvoa_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ja701	IB				01/07/19 06:16	1.0	1	?t
002	ja702	IB				01/07/19 07:09	1.0	1	?t
003	ja703	TUN	50NG			01/07/19 07:46	1.0	2	
004	ja704	CCV/BS	QC960413	Water	266692	01/07/19 08:19	1.0	3 4 5 6 1	cc+
005	ja705	BSD	QC960414	Water	266692	01/07/19 09:07	1.0	3 4 5 6 1	cc+
006	ja706	IB				01/07/19 09:38	1.0	1	
007	ja707	BLANK	QC960415	Water	266692	01/07/19 10:09	1.0	1	cc+
008	ja708	TUN	50NG			01/07/19 11:39	1.0	2	
009	ja709	IB				01/07/19 12:18	1.0	1	
010	ja710	IB				01/07/19 12:49	1.0	1	
011	ja711	IB				01/07/19 13:20	1.0	1	
012	ja712	IB	CALIBRATION	Water		01/07/19 13:52	1.0	1	
013	ja713	ICAL				01/07/19 14:23	1.0	7 8 9 10 1	
014	ja714	ICAL				01/07/19 14:54	1.0	7 8 9 10 1	
015	ja715	ICAL				01/07/19 15:26	1.0	7 8 9 10 1	
016	ja716	ICAL				01/07/19 15:58	1.0	7 8 9 10 1	
017	ja717	ICAL				01/07/19 16:29	1.0	7 8 9 10 1	
018	ja718	ICAL				01/07/19 17:00	1.0	7 8 9 10 1	
019	ja719	ICAL				01/07/19 17:32	1.0	7 8 9 10 1	
020	ja720	ICAL				01/07/19 18:03	1.0	7 8 9 10 1	
021	ja721	ICAL				01/07/19 18:34	1.0	7 8 9 10 1	
022	ja722	ICV				01/07/19 19:05	1.0	3 4 5 11 1	
023	ja723	IB				01/07/19 19:36	1.0	1	
024	ja724	IB				01/07/19 20:08	1.0	1	
025	ja725	IB				01/07/19 20:39	1.0	1	

MCT 01/08/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 25.

Analyst: MCT Date: 01/08/19 Reviewer: LW Date: 01/08/19

Standards used: 1=S39315 2=S37613 3=S39081 4=S39228 5=S39033 6=S35894 7=S37791 8=S39030 9=S39361 10=S37362 11=S36178

Flags used: +=high bias ?t=missing tune cc=CCV CCC failure

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 499037978

Instrument : MSVOA10 Begun : 01/26/19 08:58
 Method : EPA 8260B SOP Version : msvoa_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	jaq01	IB				01/26/19 08:58	1.0	1	?t
002	jaq02	TUN	50NG			01/26/19 09:25	1.0	2	
003	jaq03	CCV/BS	QC962718	Water	267281	01/26/19 09:58	1.0	3 4 5 6 1	
004	jaq04	BSD	QC962719	Water	267281	01/26/19 10:30	1.0	3 4 5 6 1	
005	jaq05	IB				01/26/19 11:01	1.0	1	
006	jaq06	BLANK	QC962720	Water	267281	01/26/19 11:32	1.0	1	
007	jaq07	SAMPLE	306574-005	Water	267281	01/26/19 12:03	1.0	1	headspace > 1 mL
008	jaq08	SAMPLE	306574-001	Water	267281	01/26/19 12:35	1.0	1	
009	jaq09	SAMPLE	306574-004	Water	267281	01/26/19 13:06	1.0	1	
010	jaq10	SAMPLE	306574-002	Water	267281	01/26/19 13:38	1.0	1	
011	jaq11	SAMPLE	306574-003	Water	267281	01/26/19 14:09	1.0	1	
012	jaq12	SAMPLE	306722-014	Water	267281	01/26/19 14:41	1.0	1	
013	jaq13	SAMPLE	306722-015	Water	267281	01/26/19 15:13	1.0	1	
014	jaq14	SAMPLE	306722-016	Water	267281	01/26/19 15:44	1.0	1	
015	jaq15	SAMPLE	306722-017	Water	267281	01/26/19 16:16	1.0	1	
016	jaq16	SAMPLE	306722-018	Water	267281	01/26/19 16:48	1.0	1	
017	jaq17	SAMPLE	306722-019	Water	267281	01/26/19 17:19	1.0	1	
018	jaq18	SAMPLE	306577-007	Water	267281	01/26/19 17:51	2.0	1	
019	jaq19	SAMPLE	306621-002	Water	267281	01/26/19 18:22	16.67	1	
020	jaq20	SAMPLE	306631-008	Water	267281	01/26/19 18:53	20.0	1	
021	jaq21	SAMPLE	306631-009	Water	267281	01/26/19 19:24	3.333	1	foamer, pH > 2
022	jaq22	SAMPLE	306619-001	Water	267281	01/26/19 19:55	2000	1	foamer, pH > 2
023	jaq23	IB	HG			01/26/19 20:27	1.0	1	6:CLEA=370
024	jaq24	IB				01/26/19 20:58	1.0	1	
025	jaq25	IB				01/26/19 21:29	1.0	1	<<t
026	jaq26	IB				01/26/19 22:00	1.0	1	<<t
027	jaq27	IB				01/26/19 22:31	1.0	1	<<t
028	jaq28	IB				01/26/19 23:02	1.0	1	<<t

TEW 01/28/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 28.

TEW 01/28/19 : Matrix spikes were not performed for this analysis in batch 267281 due to insufficient sample amount.

Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

Standards used: 1=S39494 2=S39414 3=S39081 4=S39228 5=S39033 6=S36178

Flags used: <<t=out of clock ?t=missing tune

MSVOA WATER Prepsheet

Batch #: 267281
 Prep date/initials: 1/26/19 AHT
 Instrument: MS10

Dilutions prepared & pH of dilutions checked (initials/date): AHT 1/26/19 pH paper (<2.5SU), lot: 270416
 For Undiluted samples, pH checked (initials/date): AHT 1/27/19 pH paper (0-14SU), lot: 16BDH0681

Sample ID	Vial	pH <2	pH if >2	HS?	Dil'n flask ID	RR #	DF	20% ccv?	hold	due	\$ R US
1 306577-7	C	✓			10	1	2x		2/1	1/24	
2 306574-1	C	✓					1x				
3		✓									
4		✓									
5		✓									
6	A	✓	5 mL						✓		
7 306621-2	E	✓			15	1	16.7x		1/30	1/28	
8 306619-1	B	11			14		1000x			2/1	
9 306631-9	B	5			01		3.3x			1/28	
10	C	✓			11	1	20x			1/28	
11 306722-14	A	✓					1x			1/31	
12		✓									
13		✓									
14		✓									
15		✓									
16		✓									
17		✓									
18											
19											
20											
21											
22											

Dup of 1
 TB, only vial left. 5 mL taken by TVH
 Prepped by MCT 1/24/19; F:
 Acc, 2-Bur > LR, surr ↑

[Handwritten signature] 28-19

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8260B

Inst : MSVOA10 Lab ID : 306574-001 Client ID : BR11-1GW01
 Seqnum : 499037978008 Matrix : Water Acct : TRC-SF (MJD)
 File : jaq08 Batch : 267281 Time : 26-JAN-2019 12:35
 Cal : 499010456001 Caldate : 07-JAN-2019 Caltype : WATER
 IDF : 1.0 Raw Units : ug/L Units : ug/L

Analyte	Raw	Result	RL	Blank	Flags
MTBE	0	ND	0.5		u
Benzene	0	ND	0.5		u
Toluene	0	ND	0.5		u
Ethylbenzene	0.04940	ND	0.5		u
m,p-Xylenes	0.03720	ND	0.5		u
o-Xylene	0	ND	0.5		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	47.52	50.00	47.52	95	80-121	u
1,2-Dichloroethane-d4	45.37	50.00	45.37	91	80-134	u
Toluene-d8	44.42	50.00	44.42	89	80-120	u
Bromofluorobenzene	46.25	50.00	46.25	93	80-120	u

ISTD (ICAL ja719)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE RT	Drift
Pentafluorobenzene	473385	500583	5.75	10.40	10.37	-0.03
1,4-Difluorobenzene	853668	959041	12.34	11.56	11.53	-0.03
Chlorobenzene-d5	705270	827845	17.38	15.61	15.59	-0.02
1,4-Dichlorobenzene-d4	345170	377120	9.26	18.30	18.29	-0.01

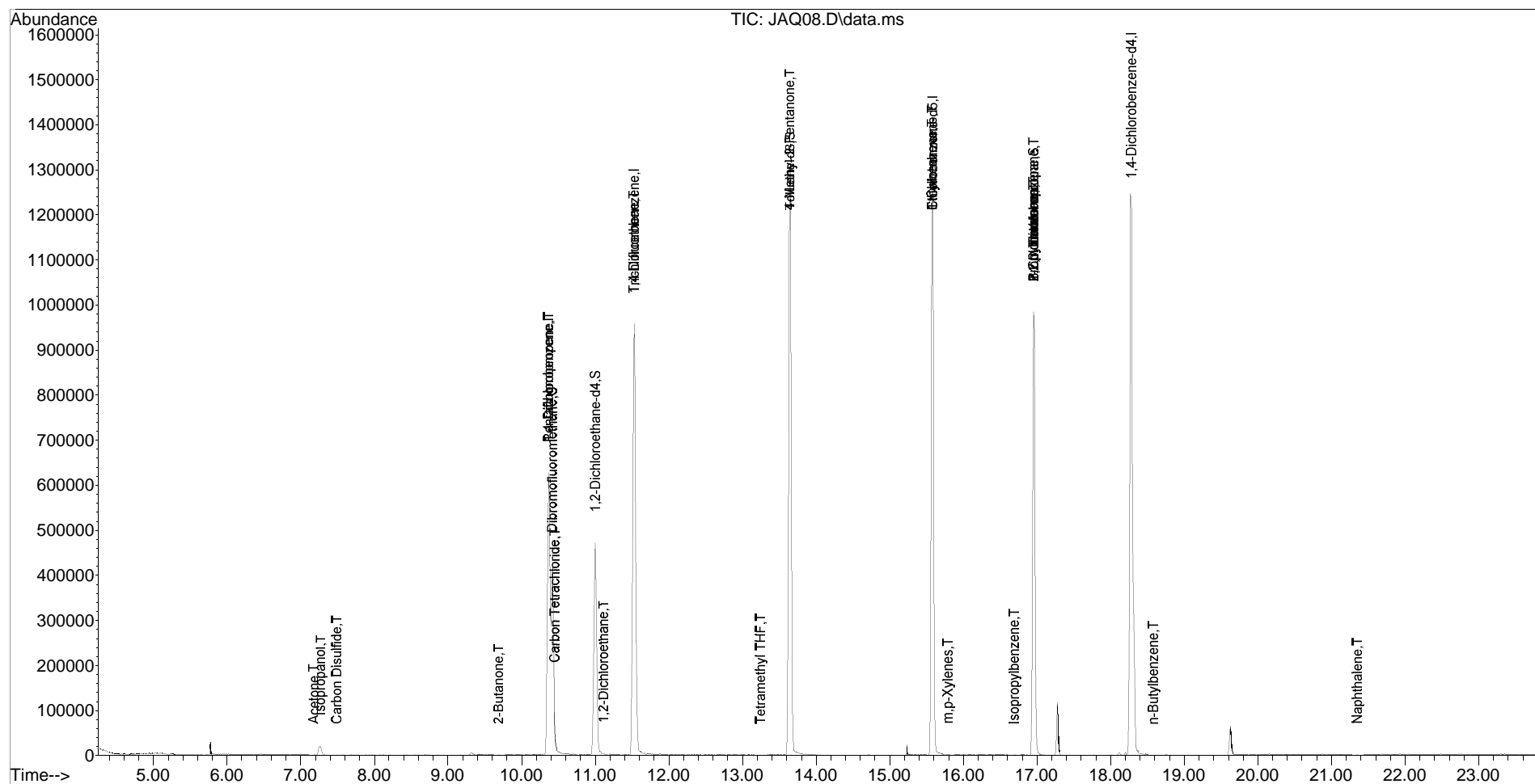
Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

u=use

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ08.D
 Acq On : 26 Jan 2019 12:35 pm
 Operator :
 Sample : s,306574-001
 Misc : 267281,1/1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 26 12:59:57 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ08.D
 Acq On : 26 Jan 2019 12:35 pm
 Operator :
 Sample : s,306574-001
 Misc : 267281,1/1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 26 12:59:57 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.370	168	500583	50.0000	ug/L	-0.03
32) 1,4-Difluorobenzene	11.534	114	959041	50.0000	ug/L	-0.03
49) Chlorobenzene-d5	15.586	117	827845	50.0000	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4	18.288	152	377120	50.0000	ug/L	0.00

System Monitoring Compounds

30) Dibromofluoromethane	10.420	113	355250	47.5206	ug/L	-0.03
36) 1,2-Dichloroethane-d4	11.002	65	405904	45.3667	ug/L	-0.02
40) Trifluorotoluene	0.000	146	0	0.0000	ug/L	
50) Toluene-d8	13.654	98	1049392	44.4186	ug/L	-0.02
69) Bromofluorobenzene	16.957	95	427945	46.2544	ug/L	-0.01

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	0.000	85	0	N.D.		
3) Chloromethane	0.000	50	0	N.D.		
4) Vinyl Chloride	0.000	62	0	N.D.		
5) Bromomethane	0.000	94	0	N.D.		
6) Chloroethane	0.000	64	0	N.D.		
7) Trichlorofluoromethane	0.000	101	0	N.D.		
8) Ethanol	0.000	45	0	N.D.		
9) Freon 113	0.000	101	0	N.D.		
10) 1,1-Dichloroethene	0.000	96	0	N.D.		
11) Acetone	7.186	43	2328	0.3719	ug/L	# 54
12) Isopropanol	7.274	45	38608	37.9962	ug/L	91
13) Iodomethane	0.000	142	0	N.D.		
14) Carbon Disulfide	7.491	76	311	0.0106	ug/L	75
15) Methylene Chloride	0.000	84	0	N.D.		
16) tert-Butyl Alcohol (TBA)	0.000	59	0	N.D.		
17) MTBE	0.000	73	0	N.D.		
18) trans-1,2-Dichloroethene	0.000	96	0	N.D.		
19) n-Hexane	0.000	57	0	N.D.		
20) Isopropyl Ether (DIPE)	0.000	45	0	N.D.		
21) Vinyl Acetate	0.000	43	0	N.D.		
22) 1,1-Dichloroethane	0.000	63	0	N.D.		
23) ETBE	0.000	59	0	N.D.		
24) 2,2-Dichloropropane	0.000	77	0	N.D.		
25) cis-1,2-Dichloroethene	0.000	96	0	N.D.		
26) 2-Butanone	9.690	43	1442	0.1898	ug/L	64

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ08.D
 Acq On : 26 Jan 2019 12:35 pm
 Operator :
 Sample : s,306574-001
 Misc : 267281,1/1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 26 12:59:57 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	0.000	128	0	N.D.		
28) Tetrahydrofuran	0.000	42	0	N.D.		
29) Chloroform	0.000	83	0	N.D.		
31) 1,1,1-Trichloroethane	0.000	97	0	N.D.		
33) Carbon Tetrachloride	10.449	117	331	0.0315	ug/L	# 11
34) 1,1-Dichloropropene	10.370	75	53454	4.3302	ug/L	# 51
35) Benzene	0.000	78	0	N.D.		
37) TAME	0.000	73	0	N.D.		
38) 1,2-Dichloroethane	11.110	62	702	0.0509	ug/L	# 48
39) Trichloroethene	11.534	95	26460	2.8866	ug/L	# 3
41) 1,2-Dichloropropane	0.000	63	0	N.D.		
42) Dibromomethane	0.000	93	0	N.D.		
43) 1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	0.000	83	0	N.D.		
45) 2-Chloroethylvinylether	0.000	63	0	N.D.		
46) Tetramethyl THF	13.250	43	933	0.0406	ug/L	# 42
47) cis-1,3-Dichloropropene	0.000	75	0	N.D.		
48) 4-Methyl-2-Pentanone	13.644	43	6678	0.4546	ug/L	# 1
51) Toluene	0.000	91	0	N.D.		
52) trans-1,3-Dichloropropene	0.000	75	0	N.D.		
53) 1,1,2-Trichloroethane	0.000	85	0	N.D.		
54) Tetrachloroethene	0.000	166	0	N.D.		
55) 2-Hexanone	0.000	43	0	N.D.		
56) 1,3-Dichloropropane	0.000	76	0	N.D.		
57) Dibromochloromethane	0.000	129	0	N.D.		
58) 1,2-Dibromoethane	0.000	107	0	N.D.		
59) 1-Chlorohexane	15.577	91	1905	0.1617	ug/L	# 1
60) Chlorobenzene	0.000	112	0	N.D.		
61) Ethylbenzene	15.577	91	1905	0.0494	ug/L	# 46
62) 1,1,1,2-Tetrachloroethane	0.000	131	0	N.D.		
63) m,p-Xylenes	15.793	106	529	0.0372	ug/L	# 79
64) o-Xylene	0.000	106	0	N.D.		
65) Styrene	0.000	104	0	N.D.		
66) Bromoform	0.000	173	0	N.D.		
68) Isopropylbenzene	16.691	105	1373	0.0398	ug/L	# 50
70) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.		
71) Propylbenzene	16.957	91	1324	0.0308	ug/L	# 55
72) Bromobenzene	0.000	156	0	N.D.		
73) 1,2,3-Trichloropropane	16.957	75	198344	19.6474	ug/L	# 23
74) 1,3,5-Trimethylbenzene	0.000	105	0	N.D.		
75) 2-Chlorotoluene	16.957	91	1324	0.0463	ug/L	# 47
76) 4-Chlorotoluene	0.000	91	0	N.D.		
77) tert-Butylbenzene	0.000	119	0	N.D.		

Quantitation Report (Not Reviewed)

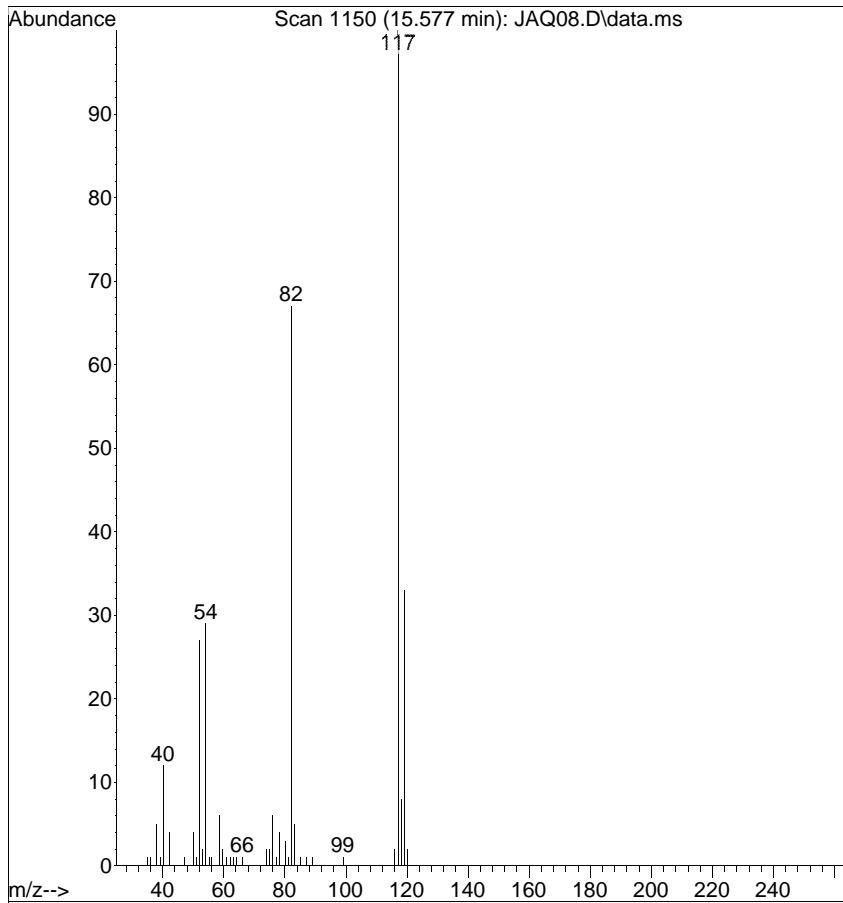
Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ08.D
 Acq On : 26 Jan 2019 12:35 pm
 Operator :
 Sample : s,306574-001
 Misc : 267281,1/1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 26 12:59:57 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	0.000	105	0	N.D.		
79) sec-Butylbenzene	0.000	105	0	N.D.		
80) para-Isopropyl Toluene	0.000	119	0	N.D.		
81) 1,3-Dichlorobenzene	0.000	146	0	N.D.		
82) 1,4-Dichlorobenzene	0.000	146	0	N.D.		
83) n-Butylbenzene	18.584	91	684	0.0283	ug/L	# 32
84) 1,2-Dichlorobenzene	0.000	146	0	N.D.		
85) 1,2-Dibromo-3-Chloropropane	0.000	75	0	N.D.		
86) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.		
87) Hexachlorobutadiene	0.000	225	0	N.D.		
88) Naphthalene	21.355	128	759	0.0433	ug/L	69
89) 1,2,3-Trichlorobenzene	0.000	180	0	N.D.		

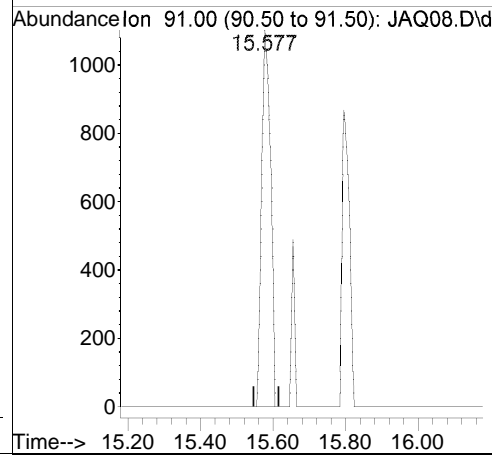
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

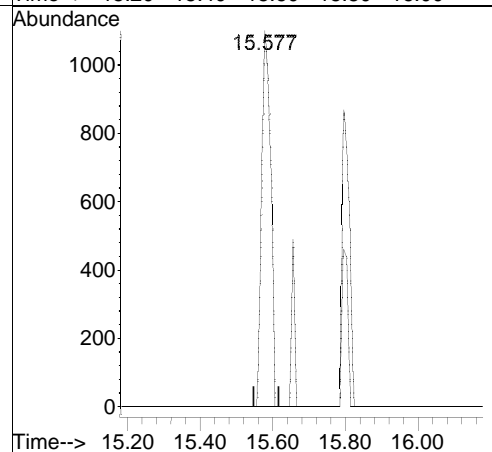
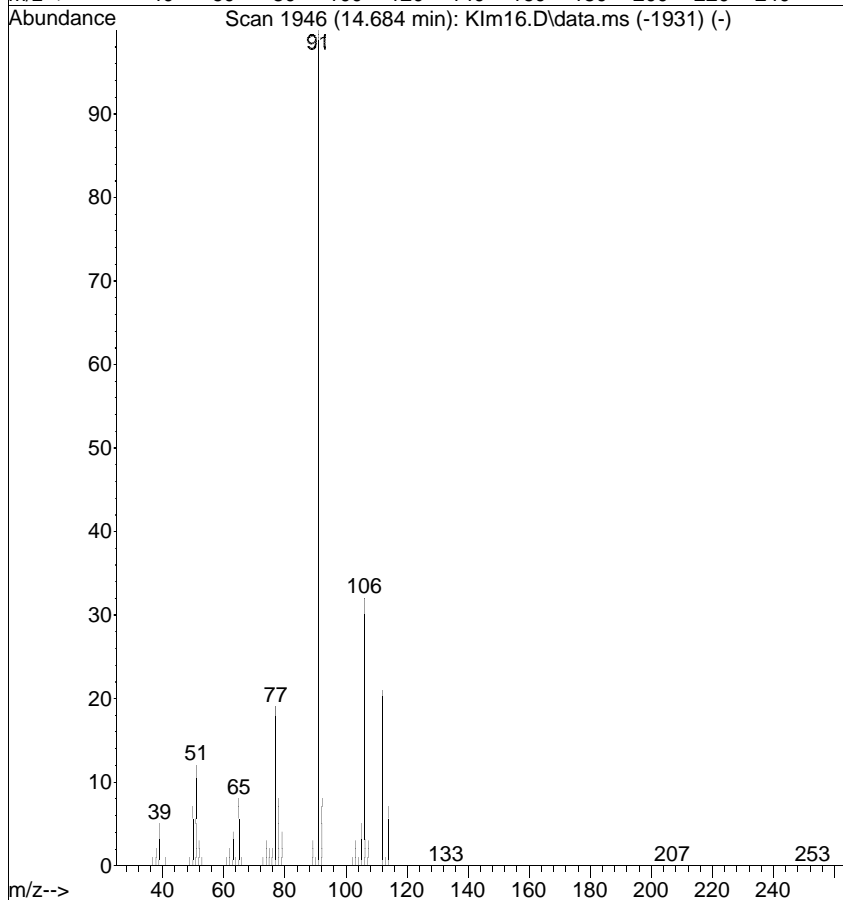


#61
 Ethylbenzene
 Concen: 0.0494 ug/L
 RT: 15.577 min Scan# 1150
 Delta R.T. -0.102 min
 Lab File: JAQ08.D
 Acq: 26 Jan 2019 12:35 pm

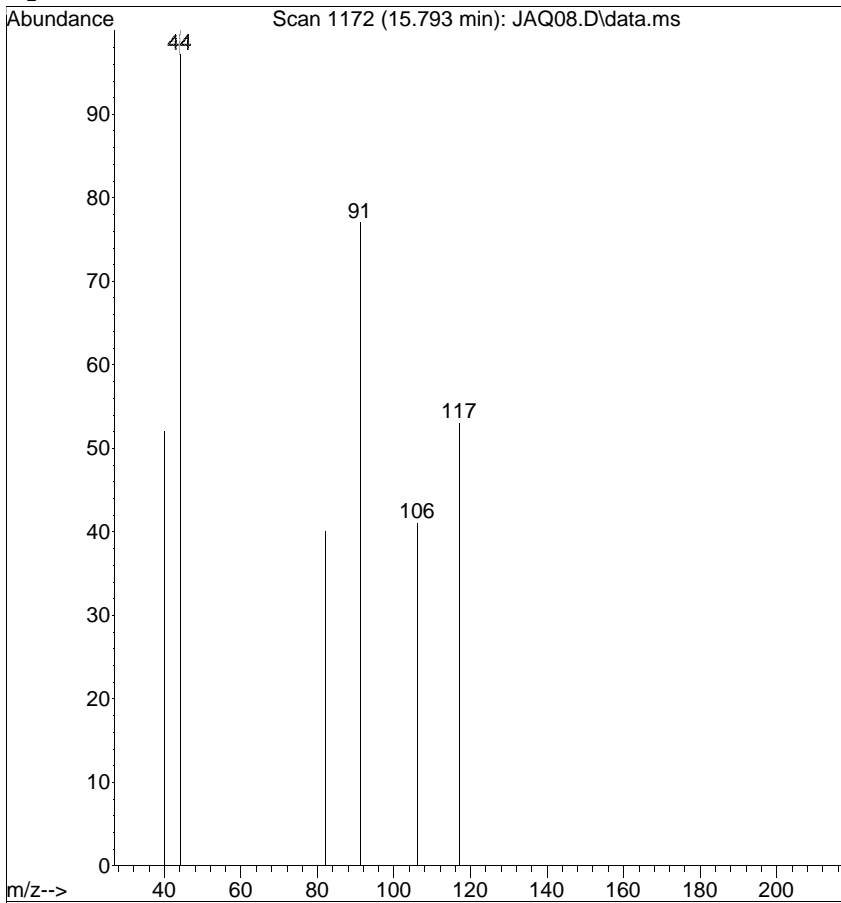
Tgt Ion	Resp	Lower	Upper
91	1905	100	
106	0.0	9.1	49.1#



Ref

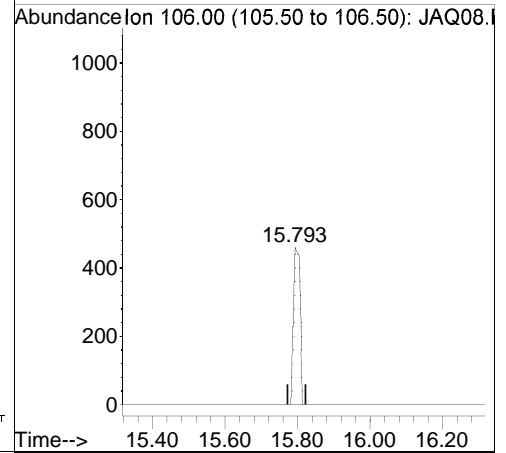


Raw

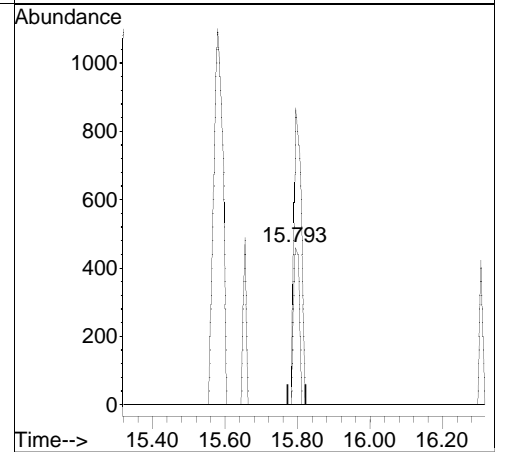
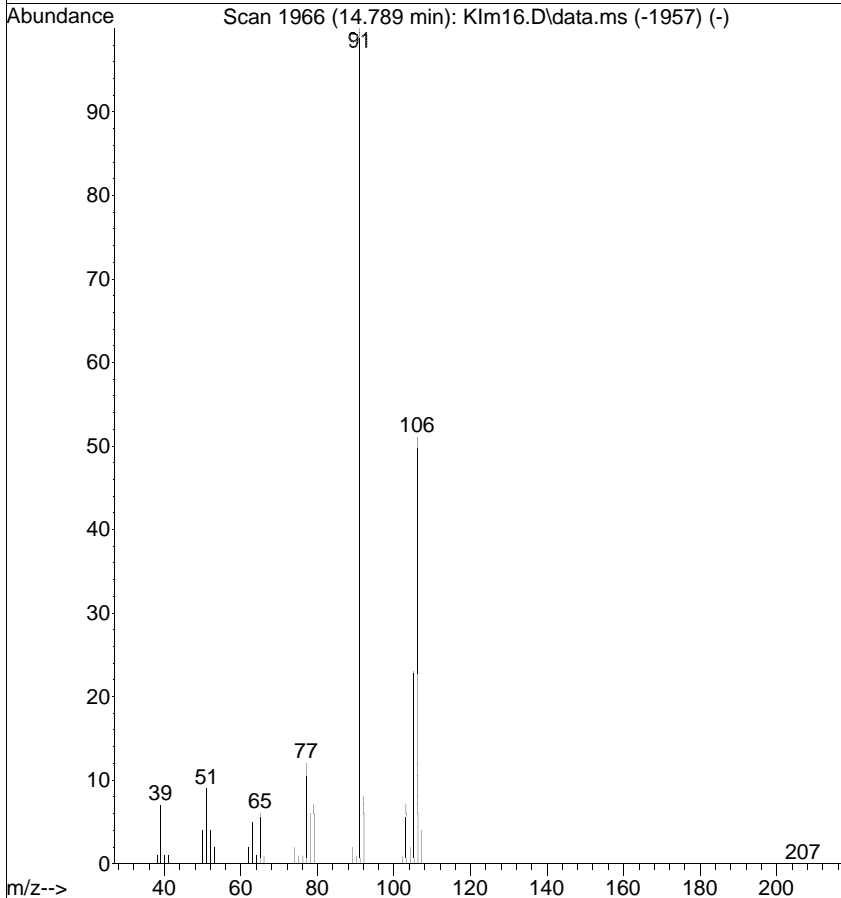


#63
 m,p-Xylenes
 Concen: 0.0372 ug/L
 RT: 15.793 min Scan# 1172
 Delta R.T. -0.024 min
 Lab File: JAQ08.D
 Acq: 26 Jan 2019 12:35 pm

Tgt Ion	Resp	Lower	Upper
106	100		
91	188.9	203.7	243.7#



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8260B

Inst : MSVOA10 Lab ID : 306574-002 Client ID : BR11-1GW02
 Seqnum : 499037978010 Matrix : Water Acct : TRC-SF (MJD)
 File : jaq10 Batch : 267281 Time : 26-JAN-2019 13:38
 Cal : 499010456001 Caldate : 07-JAN-2019 Caltype : WATER
 IDF : 1.0 Raw Units : ug/L Units : ug/L

Analyte	Raw	Result	RL	Blank	Flags
MTBE	0	ND	0.5		u
Benzene	0	ND	0.5		u
Toluene	0.009000	ND	0.5		u
Ethylbenzene	0.03610	ND	0.5		u
m,p-Xylenes	0	ND	0.5		u
o-Xylene	0	ND	0.5		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	46.42	50.00	46.42	93	80-121	u
1,2-Dichloroethane-d4	44.71	50.00	44.71	89	80-134	u
Toluene-d8	45.46	50.00	45.46	91	80-120	u
Bromofluorobenzene	47.05	50.00	47.05	94	80-120	u

ISTD (ICAL ja719)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE RT	Drift
Pentafluorobenzene	473385	505459	6.78	10.40	10.37	-0.03
1,4-Difluorobenzene	853668	959279	12.37	11.56	11.54	-0.02
Chlorobenzene-d5	705270	822221	16.58	15.61	15.59	-0.02
1,4-Dichlorobenzene-d4	345170	372235	7.84	18.30	18.29	-0.01

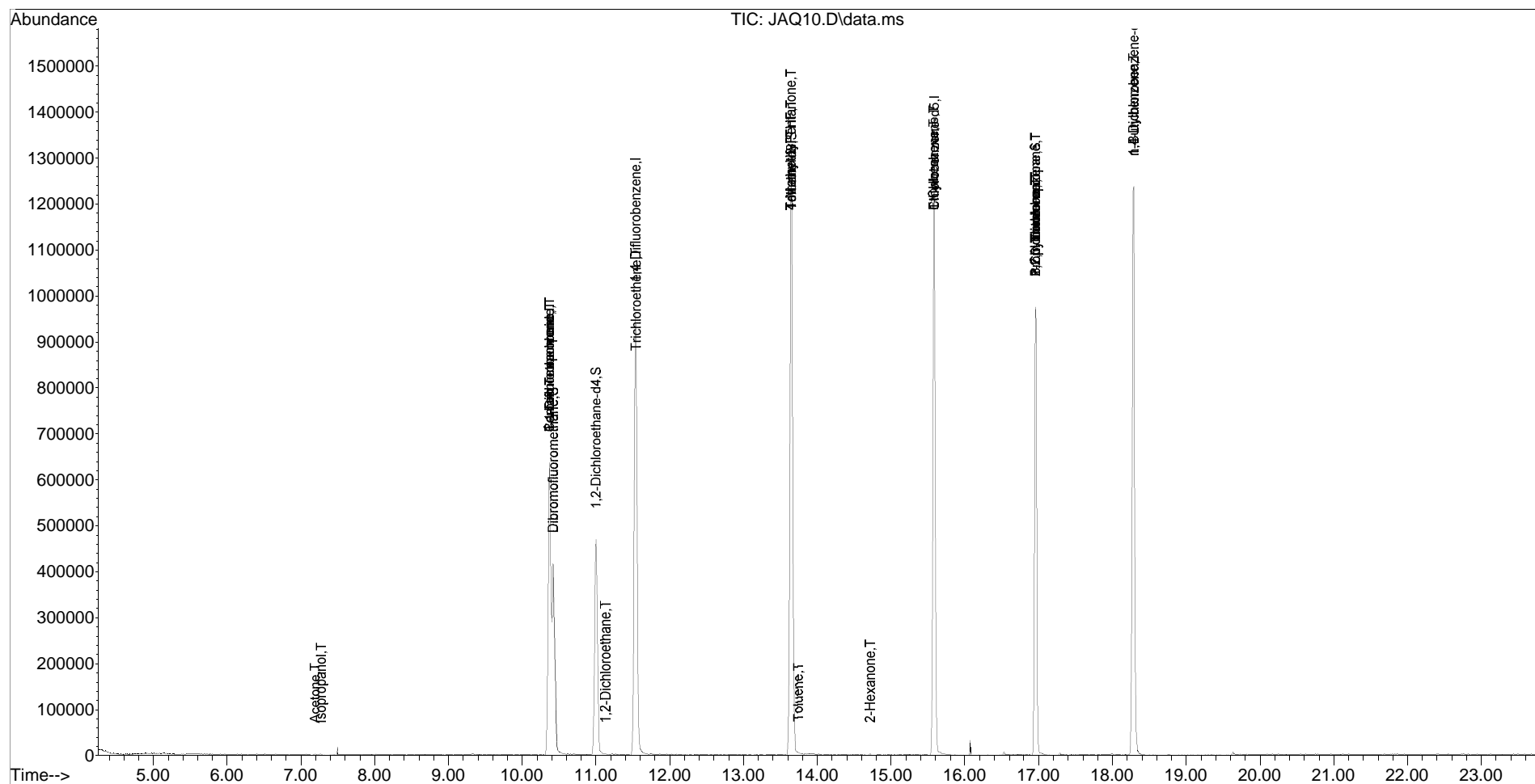
Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

u=use

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ10.D
 Acq On : 26 Jan 2019 1:38 pm
 Operator :
 Sample : s,306574-002
 Misc : 267281,1/1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 26 14:02:46 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ10.D
 Acq On : 26 Jan 2019 1:38 pm
 Operator :
 Sample : s,306574-002
 Misc : 267281,1/1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 26 14:02:46 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.373	168	505459	50.0000	ug/L	-0.03
32) 1,4-Difluorobenzene	11.536	114	959279	50.0000	ug/L	-0.03
49) Chlorobenzene-d5	15.589	117	822221	50.0000	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4	18.290	152	372235	50.0000	ug/L	0.00

System Monitoring Compounds

30) Dibromofluoromethane	10.422	113	350439	46.4248	ug/L	-0.03
36) 1,2-Dichloroethane-d4	11.004	65	400166	44.7143	ug/L	-0.02
40) Trifluorotoluene	0.000	146	0	0.0000	ug/L	
50) Toluene-d8	13.656	98	1066656	45.4582	ug/L	-0.02
69) Bromofluorobenzene	16.959	95	429628	47.0457	ug/L	-0.01

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	0.000	85	0	N.D.		
3) Chloromethane	0.000	50	0	N.D.		
4) Vinyl Chloride	0.000	62	0	N.D.		
5) Bromomethane	0.000	94	0	N.D.		
6) Chloroethane	0.000	64	0	N.D.		
7) Trichlorofluoromethane	0.000	101	0	N.D.		
8) Ethanol	0.000	45	0	N.D.		
9) Freon 113	0.000	101	0	N.D.		
10) 1,1-Dichloroethene	0.000	96	0	N.D.		
11) Acetone	7.198	43	6877	1.0880	ug/L	97
12) Isopropanol	7.277	45	6335	6.1745	ug/L	98
13) Iodomethane	0.000	142	0	N.D.		
14) Carbon Disulfide	0.000	76	0	N.D.		
15) Methylene Chloride	0.000	84	0	N.D.		
16) tert-Butyl Alcohol (TBA)	0.000	59	0	N.D.		
17) MTBE	0.000	73	0	N.D.		
18) trans-1,2-Dichloroethene	0.000	96	0	N.D.		
19) n-Hexane	0.000	57	0	N.D.		
20) Isopropyl Ether (DIPE)	0.000	45	0	N.D.		
21) Vinyl Acetate	0.000	43	0	N.D.		
22) 1,1-Dichloroethane	0.000	63	0	N.D.		
23) ETBE	0.000	59	0	N.D.		
24) 2,2-Dichloropropane	0.000	77	0	N.D.		
25) cis-1,2-Dichloroethene	0.000	96	0	N.D.		
26) 2-Butanone	0.000	43	0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ10.D
 Acq On : 26 Jan 2019 1:38 pm
 Operator :
 Sample : s,306574-002
 Misc : 267281,1/1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 26 14:02:46 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	0.000	128	0	N.D.		
28) Tetrahydrofuran	0.000	42	0	N.D.		
29) Chloroform	0.000	83	0	N.D.		
31) 1,1,1-Trichloroethane	0.000	97	0	N.D.		
33) Carbon Tetrachloride	10.373	117	48572	4.6180	ug/L	# 15
34) 1,1-Dichloropropene	10.373	75	52910	4.2851	ug/L	# 51
35) Benzene	0.000	78	0	N.D.		
37) TAME	0.000	73	0	N.D.		
38) 1,2-Dichloroethane	11.132	62	897	0.0650	ug/L	# 48
39) Trichloroethene	11.546	95	26416	2.8811	ug/L	# 3
41) 1,2-Dichloropropane	0.000	63	0	N.D.		
42) Dibromomethane	0.000	93	0	N.D.		
43) 1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	0.000	83	0	N.D.		
45) 2-Chloroethylvinylether	0.000	63	0	N.D.		
46) Tetramethyl THF	13.646	43	6588	0.2865	ug/L	# 1
47) cis-1,3-Dichloropropene	0.000	75	0	N.D.		
48) 4-Methyl-2-Pentanone	13.646	43	6588	0.4484	ug/L	# 1
51) Toluene	13.745	91	305	0.0090	ug/L	# 22
52) trans-1,3-Dichloropropene	0.000	75	0	N.D.		
53) 1,1,2-Trichloroethane	0.000	85	0	N.D.		
54) Tetrachloroethene	0.000	166	0	N.D.		
55) 2-Hexanone	14.721	43	679	0.0594	ug/L	# 38
56) 1,3-Dichloropropane	0.000	76	0	N.D.		
57) Dibromochloromethane	0.000	129	0	N.D.		
58) 1,2-Dibromoethane	0.000	107	0	N.D.		
59) 1-Chlorohexane	15.579	91	1382	0.1181	ug/L	# 1
60) Chlorobenzene	0.000	112	0	N.D.		
61) Ethylbenzene	15.579	91	1382	0.0361	ug/L	# 46
62) 1,1,1,2-Tetrachloroethane	0.000	131	0	N.D.		
63) m,p-Xylenes	0.000	106	0	N.D.		
64) o-Xylene	0.000	106	0	N.D.		
65) Styrene	0.000	104	0	N.D.		
66) Bromoform	0.000	173	0	N.D.		
68) Isopropylbenzene	0.000	105	0	N.D.		
70) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.		
71) Propylbenzene	16.959	91	1139	0.0269	ug/L	# 55
72) Bromobenzene	0.000	156	0	N.D.		
73) 1,2,3-Trichloropropane	16.959	75	196782	19.7485	ug/L	# 24
74) 1,3,5-Trimethylbenzene	0.000	105	0	N.D.		
75) 2-Chlorotoluene	16.959	91	1139	0.0403	ug/L	# 47
76) 4-Chlorotoluene	0.000	91	0	N.D.		
77) tert-Butylbenzene	0.000	119	0	N.D.		

Quantitation Report (Not Reviewed)

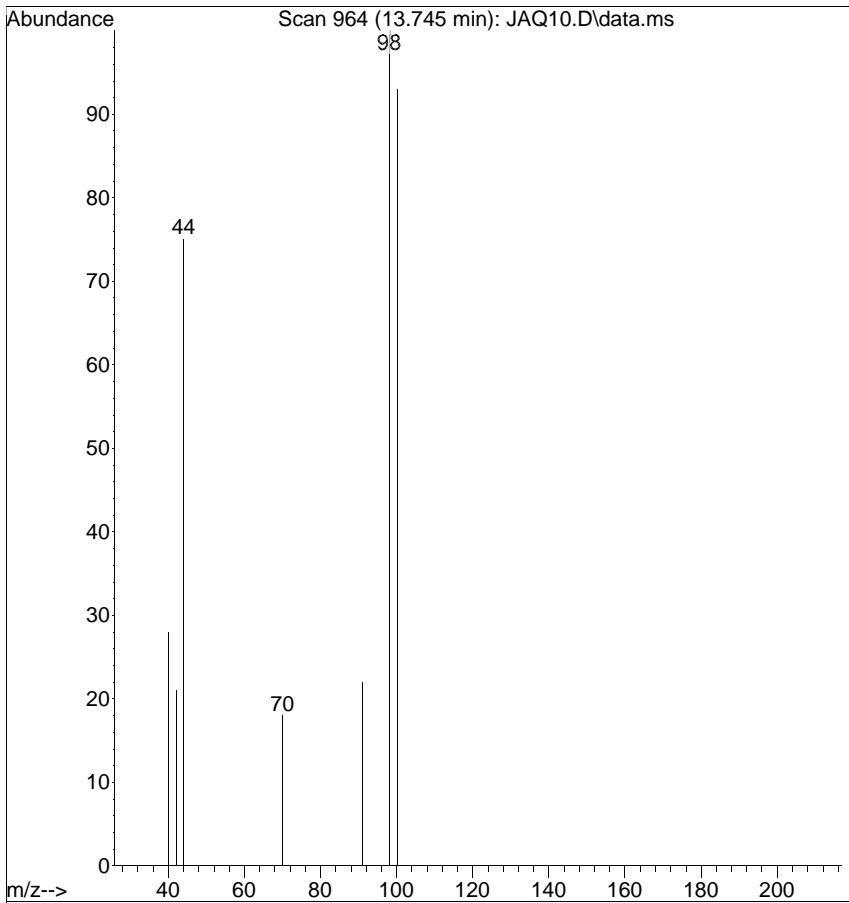
Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ10.D
 Acq On : 26 Jan 2019 1:38 pm
 Operator :
 Sample : s,306574-002
 Misc : 267281,1/1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 26 14:02:46 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	0.000	105	0	N.D.		
79) sec-Butylbenzene	0.000	105	0	N.D.		
80) para-Isopropyl Toluene	0.000	119	0	N.D.		
81) 1,3-Dichlorobenzene	0.000	146	0	N.D.		
82) 1,4-Dichlorobenzene	0.000	146	0	N.D.		
83) n-Butylbenzene	18.290	91	633	0.0265	ug/L	# 32
84) 1,2-Dichlorobenzene	0.000	146	0	N.D.		
85) 1,2-Dibromo-3-Chloropropane	0.000	75	0	N.D.		
86) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.		
87) Hexachlorobutadiene	0.000	225	0	N.D.		
88) Naphthalene	0.000	128	0	N.D.		
89) 1,2,3-Trichlorobenzene	0.000	180	0	N.D.		

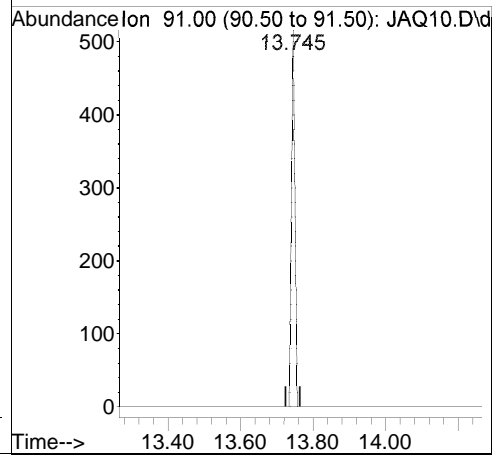
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

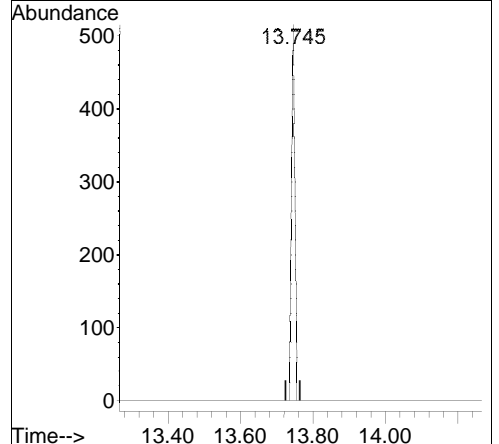
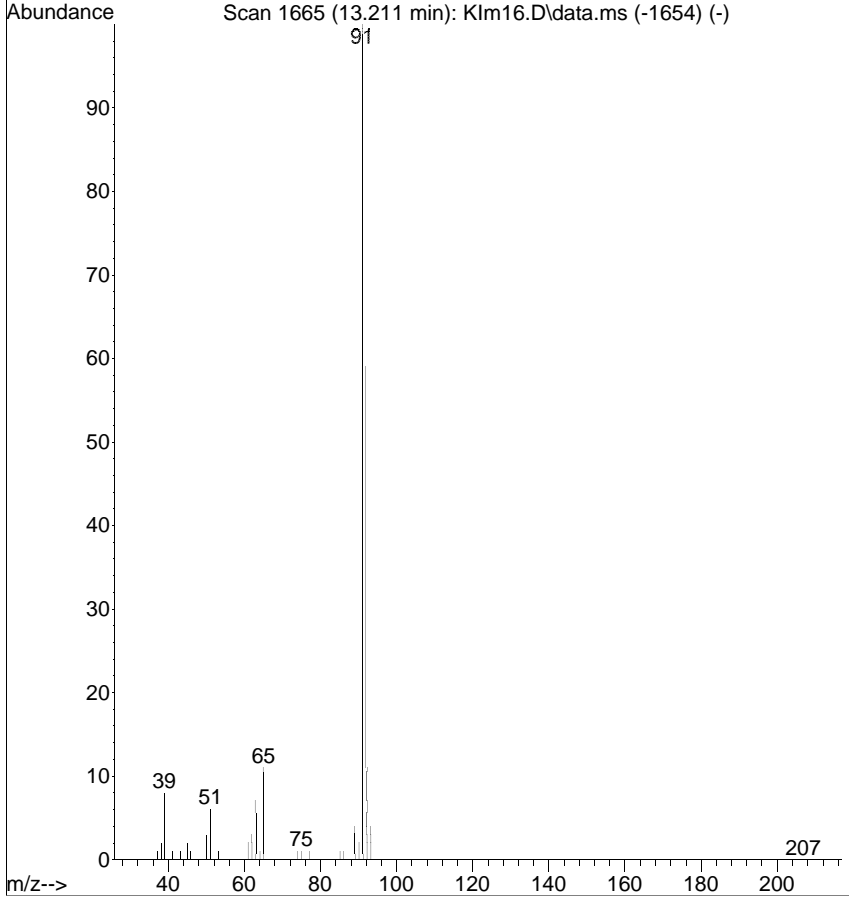


#51
 Toluene
 Concen: 0.0090 ug/L
 RT: 13.745 min Scan# 964
 Delta R.T. -0.021 min
 Lab File: JAQ10.D
 Acq: 26 Jan 2019 1:38 pm

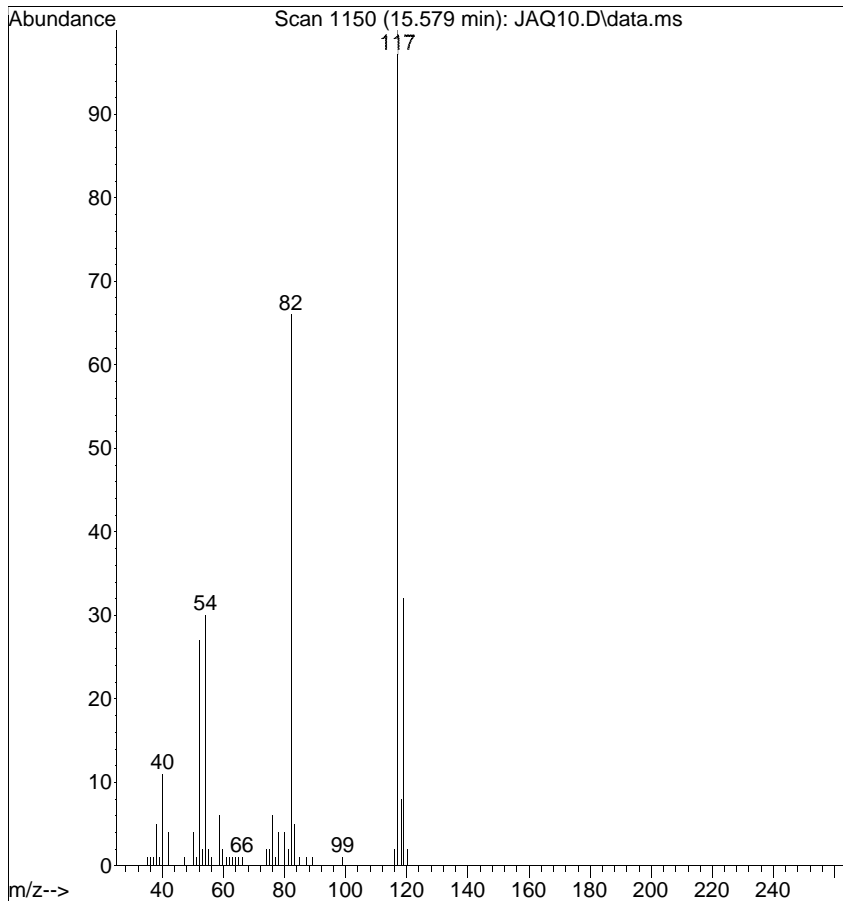
Tgt Ion	Resp	Lower	Upper
91	305	100	
92	0.0	38.4	78.4#



Ref

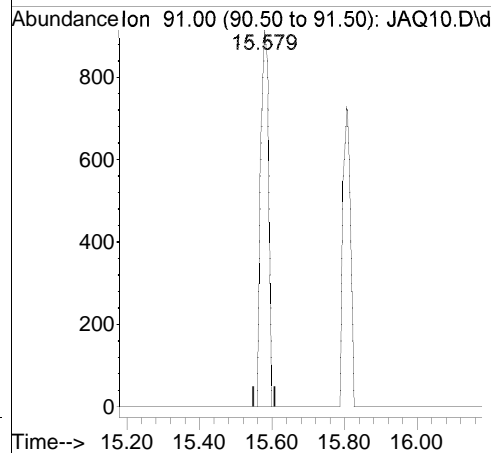


Raw

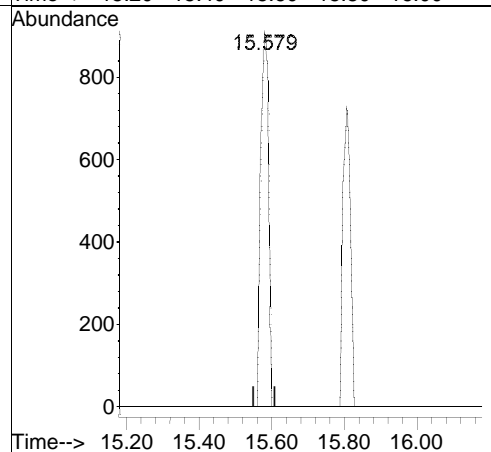
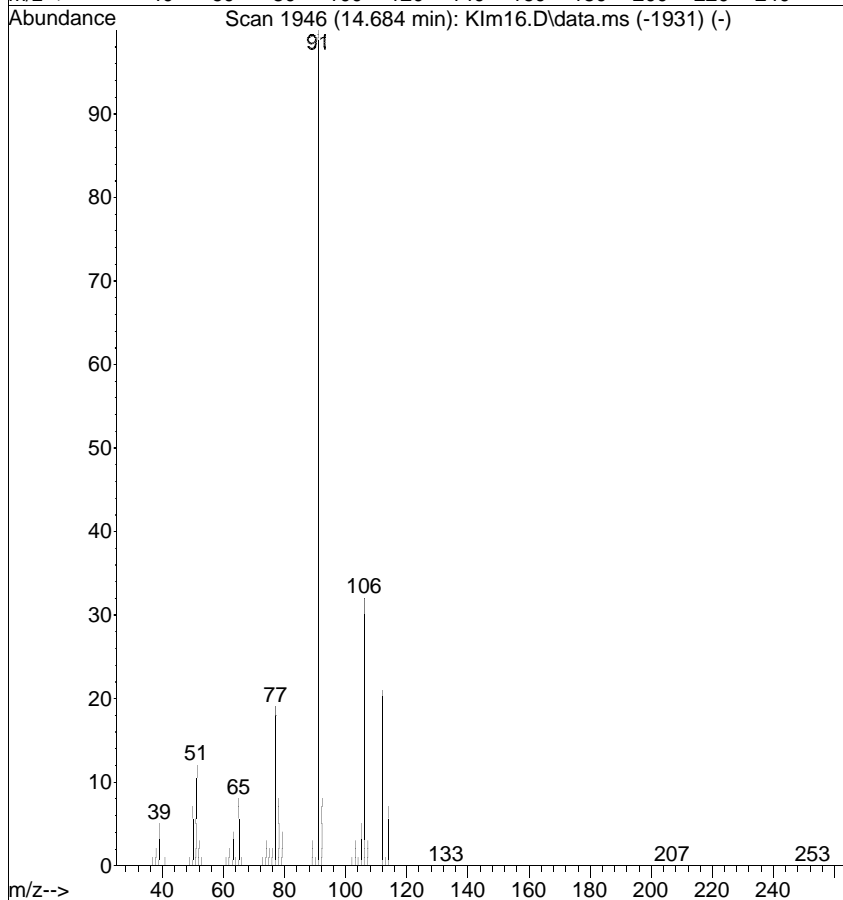


#61
 Ethylbenzene
 Concen: 0.0361 ug/L
 RT: 15.579 min Scan# 1150
 Delta R.T. -0.100 min
 Lab File: JAQ10.D
 Acq: 26 Jan 2019 1:38 pm

Tgt Ion	Resp	Lower	Upper
91	1382	100	
106	0.0	9.1	49.1#



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8260B

Inst : MSVOA10 Lab ID : 306574-003 Client ID : BR11-1GW03
 Seqnum : 499037978011 Matrix : Water Acct : TRC-SF (MJD)
 File : jaq11 Batch : 267281 Time : 26-JAN-2019 14:09
 Cal : 499010456001 Caldate : 07-JAN-2019 Caltype : WATER
 IDF : 1.0 Raw Units : ug/L Units : ug/L

Analyte	Raw	Result	RL	Blank	Flags
MTBE	0	ND	0.5		u
Benzene	0	ND	0.5		u
Toluene	0.01840	ND	0.5		u
Ethylbenzene	0.04530	ND	0.5		u
m,p-Xylenes	0.02430	ND	0.5		u
o-Xylene	0	ND	0.5		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	46.99	50.00	46.99	94	80-121	u
1,2-Dichloroethane-d4	45.42	50.00	45.42	91	80-134	u
Toluene-d8	45.56	50.00	45.56	91	80-120	u
Bromofluorobenzene	47.54	50.00	47.54	95	80-120	u

ISTD (ICAL ja719)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE RT	Drift
Pentafluorobenzene	473385	503243	6.31	10.40	10.38	-0.02
1,4-Difluorobenzene	853668	946759	10.90	11.56	11.54	-0.02
Chlorobenzene-d5	705270	812126	15.15	15.61	15.58	-0.03
1,4-Dichlorobenzene-d4	345170	361035	4.60	18.30	18.28	-0.02

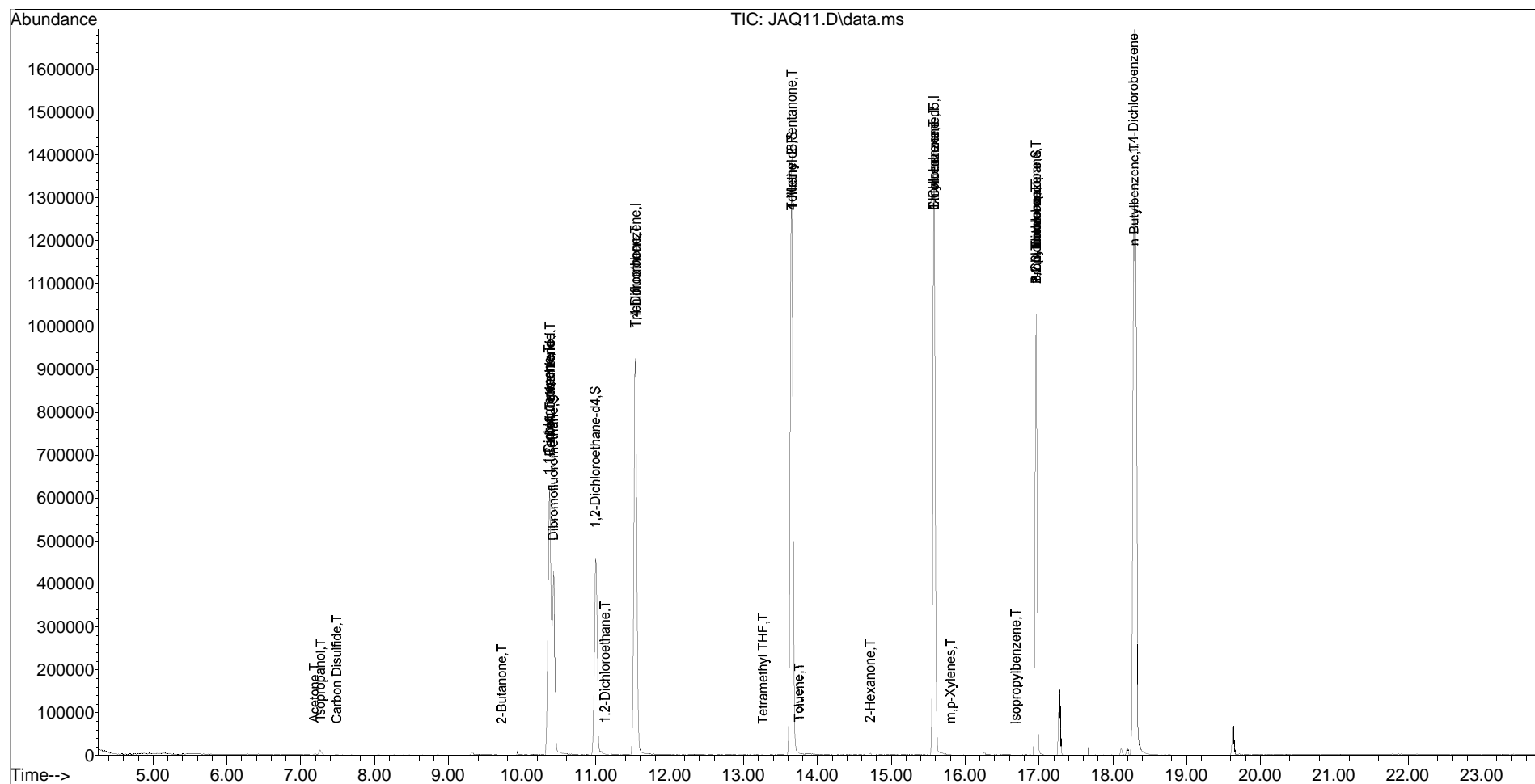
Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

u=use

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ11.D
 Acq On : 26 Jan 2019 2:09 pm
 Operator :
 Sample : s,306574-003
 Misc : 267281,1/1,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 26 14:34:16 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ11.D
 Acq On : 26 Jan 2019 2:09 pm
 Operator :
 Sample : s,306574-003
 Misc : 267281,1/1,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 26 14:34:16 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.376	168	503243	50.0000	ug/L	-0.03
32) 1,4-Difluorobenzene	11.540	114	946759	50.0000	ug/L	-0.03
49) Chlorobenzene-d5	15.582	117	812126	50.0000	ug/L	-0.02
67) 1,4-Dichlorobenzene-d4	18.284	152	361035	50.0000	ug/L	0.00

System Monitoring Compounds

30) Dibromofluoromethane	10.426	113	353131	46.9875	ug/L	-0.03
36) 1,2-Dichloroethane-d4	10.998	65	401162	45.4183	ug/L	-0.03
40) Trifluorotoluene	0.000	146	0	0.0000	ug/L	
50) Toluene-d8	13.650	98	1055959	45.5617	ug/L	-0.03
69) Bromofluorobenzene	16.963	95	421100	47.5423	ug/L	0.00

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	0.000	85	0	N.D.		
3) Chloromethane	0.000	50	0	N.D.		
4) Vinyl Chloride	0.000	62	0	N.D.		
5) Bromomethane	0.000	94	0	N.D.		
6) Chloroethane	0.000	64	0	N.D.		
7) Trichlorofluoromethane	0.000	101	0	N.D.		
8) Ethanol	0.000	45	0	N.D.		
9) Freon 113	0.000	101	0	N.D.		
10) 1,1-Dichloroethene	0.000	96	0	N.D.		
11) Acetone	7.192	43	6815	1.0829	ug/L	96
12) Isopropanol	7.270	45	22940	22.4571	ug/L	91
13) Iodomethane	0.000	142	0	N.D.		
14) Carbon Disulfide	7.487	76	3720	0.1261	ug/L	75
15) Methylene Chloride	0.000	84	0	N.D.		
16) tert-Butyl Alcohol (TBA)	0.000	59	0	N.D.		
17) MTBE	0.000	73	0	N.D.		
18) trans-1,2-Dichloroethene	0.000	96	0	N.D.		
19) n-Hexane	0.000	57	0	N.D.		
20) Isopropyl Ether (DIPE)	0.000	45	0	N.D.		
21) Vinyl Acetate	0.000	43	0	N.D.		
22) 1,1-Dichloroethane	0.000	63	0	N.D.		
23) ETBE	0.000	59	0	N.D.		
24) 2,2-Dichloropropane	0.000	77	0	N.D.		
25) cis-1,2-Dichloroethene	0.000	96	0	N.D.		
26) 2-Butanone	9.726	43	661	0.0866	ug/L	64

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ11.D
 Acq On : 26 Jan 2019 2:09 pm
 Operator :
 Sample : s,306574-003
 Misc : 267281,1/1,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 26 14:34:16 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	0.000	128	0	N.D.		
28) Tetrahydrofuran	0.000	42	0	N.D.		
29) Chloroform	0.000	83	0	N.D.		
31) 1,1,1-Trichloroethane	0.000	97	0	N.D.		
33) Carbon Tetrachloride	10.376	117	49212	4.7407	ug/L	# 16
34) 1,1-Dichloropropene	10.366	75	53476	4.3882	ug/L	# 50
35) Benzene	0.000	78	0	N.D.		
37) TAME	0.000	73	0	N.D.		
38) 1,2-Dichloroethane	11.126	62	603	0.0443	ug/L	# 48
39) Trichloroethene	11.540	95	25857	2.8574	ug/L	# 3
41) 1,2-Dichloropropane	0.000	63	0	N.D.		
42) Dibromomethane	0.000	93	0	N.D.		
43) 1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	0.000	83	0	N.D.		
45) 2-Chloroethylvinylether	0.000	63	0	N.D.		
46) Tetramethyl THF	13.265	43	2433	0.1072	ug/L	# 42
47) cis-1,3-Dichloropropene	0.000	75	0	N.D.		
48) 4-Methyl-2-Pentanone	13.650	43	7024	0.4844	ug/L	# 1
51) Toluene	13.748	91	619	0.0184	ug/L	# 22
52) trans-1,3-Dichloropropene	0.000	75	0	N.D.		
53) 1,1,2-Trichloroethane	0.000	85	0	N.D.		
54) Tetrachloroethene	0.000	166	0	N.D.		
55) 2-Hexanone	14.715	43	1365	0.1210	ug/L	# 38
56) 1,3-Dichloropropane	0.000	76	0	N.D.		
57) Dibromochloromethane	0.000	129	0	N.D.		
58) 1,2-Dibromoethane	0.000	107	0	N.D.		
59) 1-Chlorohexane	15.582	91	1715	0.1484	ug/L	# 1
60) Chlorobenzene	0.000	112	0	N.D.		
61) Ethylbenzene	15.582	91	1715	0.0453	ug/L	# 46
62) 1,1,1,2-Tetrachloroethane	0.000	131	0	N.D.		
63) m,p-Xylenes	15.809	106	339	0.0243	ug/L	# 48
64) o-Xylene	0.000	106	0	N.D.		
65) Styrene	0.000	104	0	N.D.		
66) Bromoform	0.000	173	0	N.D.		
68) Isopropylbenzene	16.687	105	833	0.0252	ug/L	# 50
70) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.		
71) Propylbenzene	16.963	91	907	0.0220	ug/L	# 55
72) Bromobenzene	0.000	156	0	N.D.		
73) 1,2,3-Trichloropropane	16.963	75	192279	19.8952	ug/L	# 23
74) 1,3,5-Trimethylbenzene	0.000	105	0	N.D.		
75) 2-Chlorotoluene	16.963	91	907	0.0331	ug/L	# 47
76) 4-Chlorotoluene	0.000	91	0	N.D.		
77) tert-Butylbenzene	0.000	119	0	N.D.		

Quantitation Report (Not Reviewed)

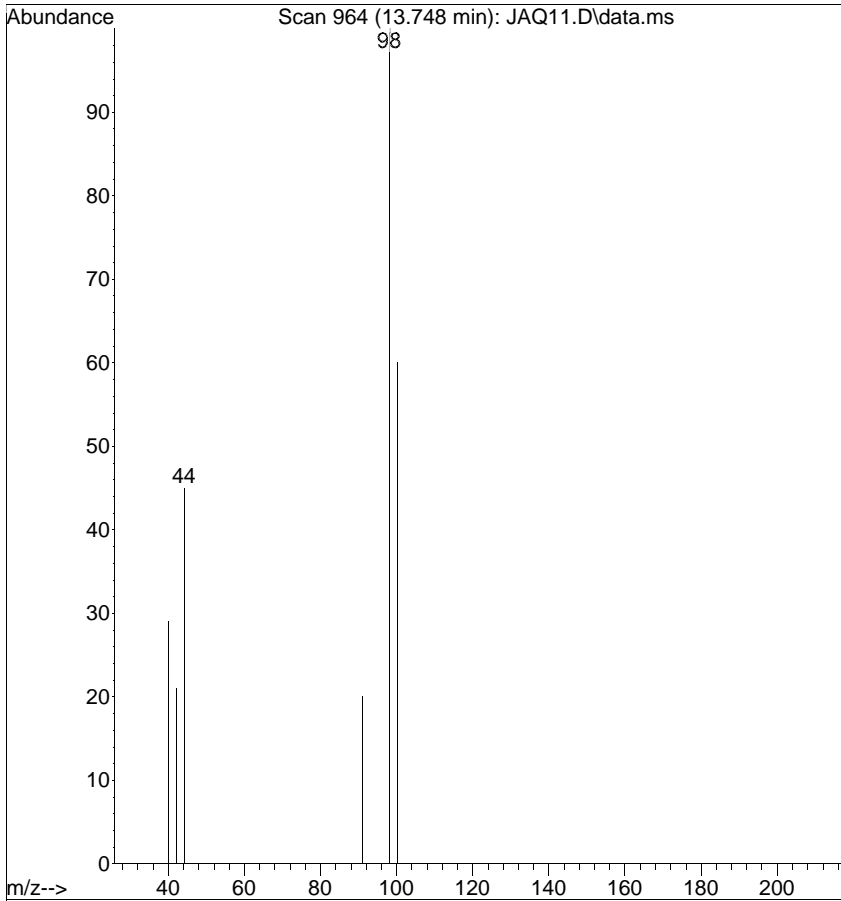
Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ11.D
 Acq On : 26 Jan 2019 2:09 pm
 Operator :
 Sample : s,306574-003
 Misc : 267281,1/1,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 26 14:34:16 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	0.000	105	0	N.D.		
79) sec-Butylbenzene	0.000	105	0	N.D.		
80) para-Isopropyl Toluene	0.000	119	0	N.D.		
81) 1,3-Dichlorobenzene	0.000	146	0	N.D.		
82) 1,4-Dichlorobenzene	0.000	146	0	N.D.		
83) n-Butylbenzene	18.294	91	1122	0.0485	ug/L	# 32
84) 1,2-Dichlorobenzene	0.000	146	0	N.D.		
85) 1,2-Dibromo-3-Chloropropane	0.000	75	0	N.D.		
86) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.		
87) Hexachlorobutadiene	0.000	225	0	N.D.		
88) Naphthalene	0.000	128	0	N.D.		
89) 1,2,3-Trichlorobenzene	0.000	180	0	N.D.		

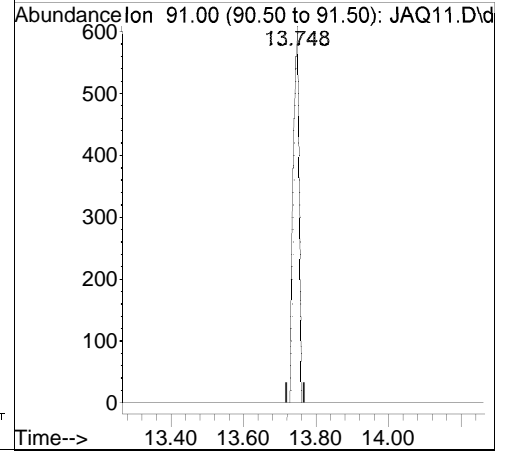
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

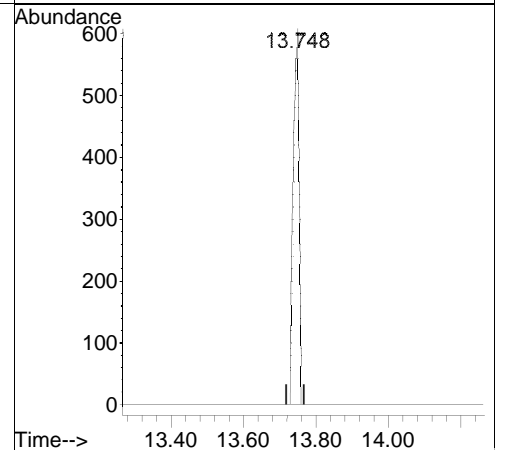
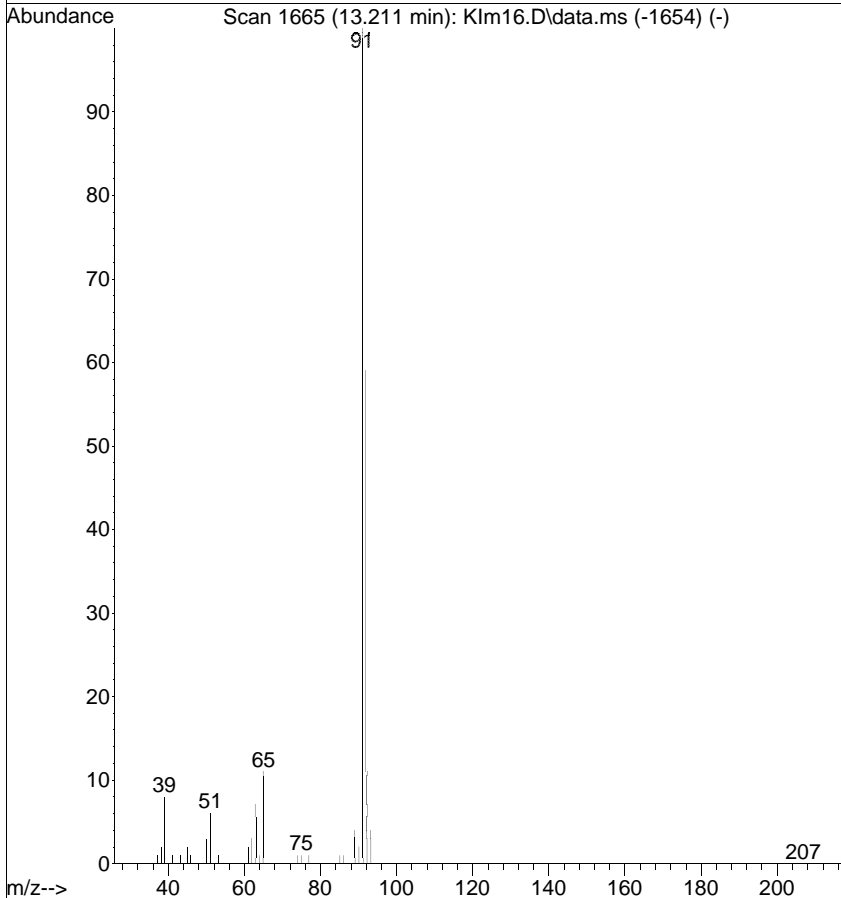


#51
 Toluene
 Concen: 0.0184 ug/L
 RT: 13.748 min Scan# 964
 Delta R.T. -0.018 min
 Lab File: JAQ11.D
 Acq: 26 Jan 2019 2:09 pm

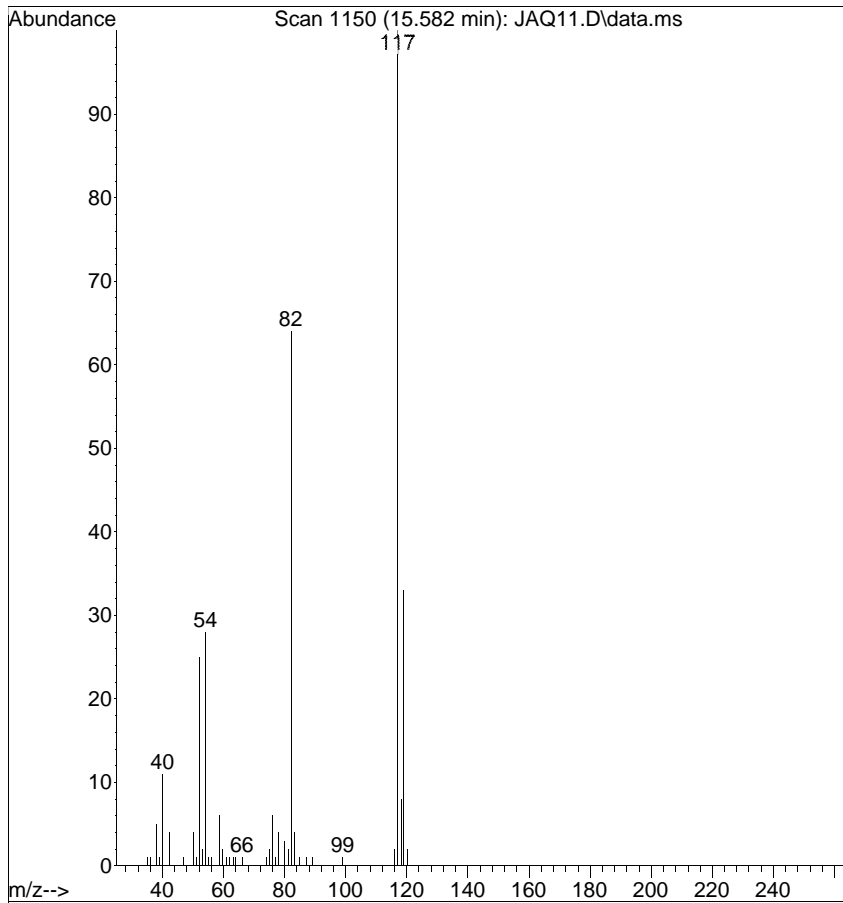
Tgt Ion	Resp	Lower	Upper
91	619		
92	0.0	38.4	78.4#



Ref

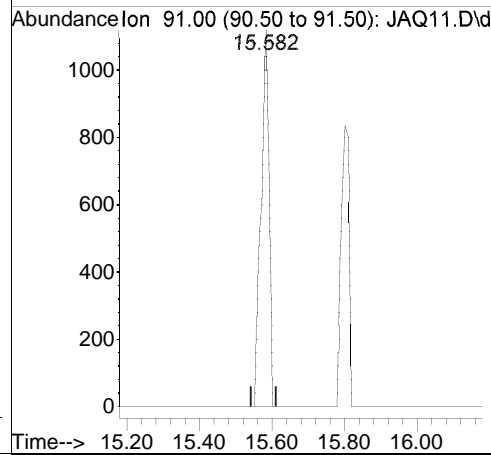


Raw

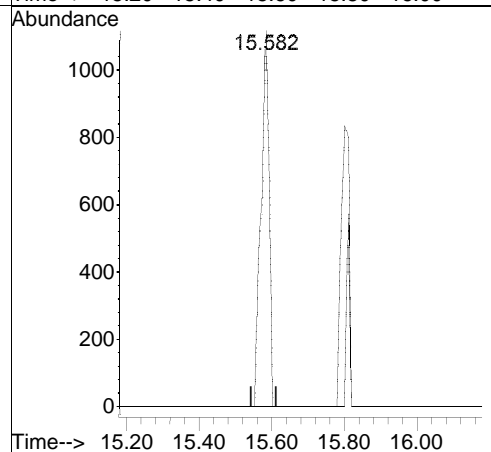
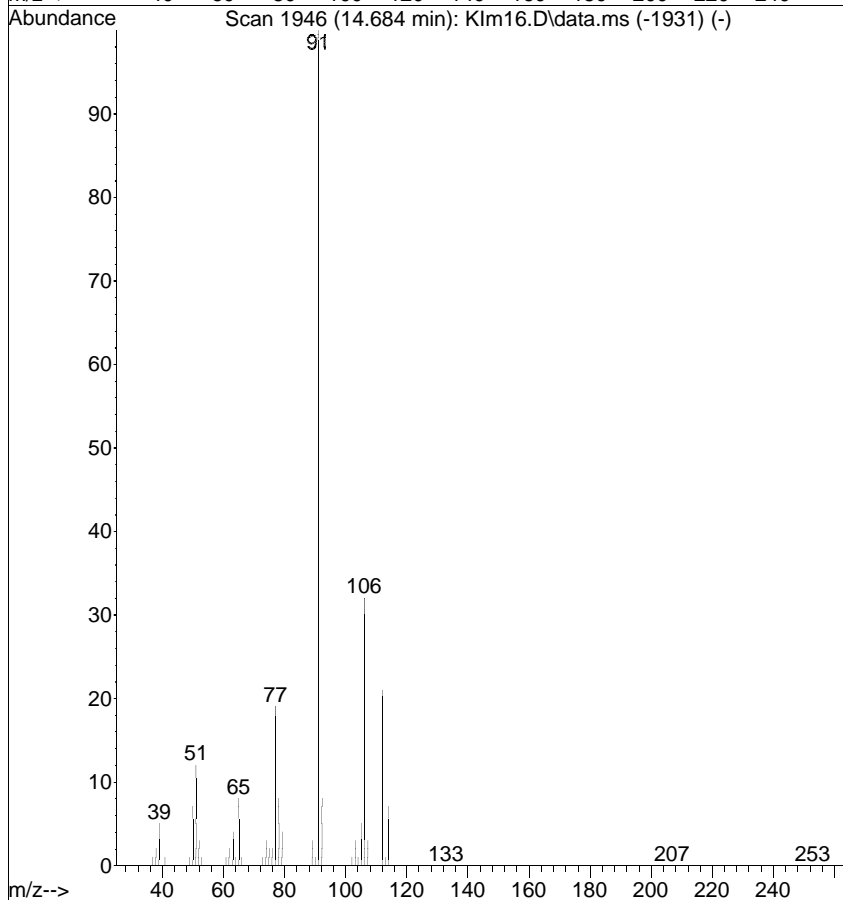


#61
 Ethylbenzene
 Concen: 0.0453 ug/L
 RT: 15.582 min Scan# 1150
 Delta R.T. -0.097 min
 Lab File: JAQ11.D
 Acq: 26 Jan 2019 2:09 pm

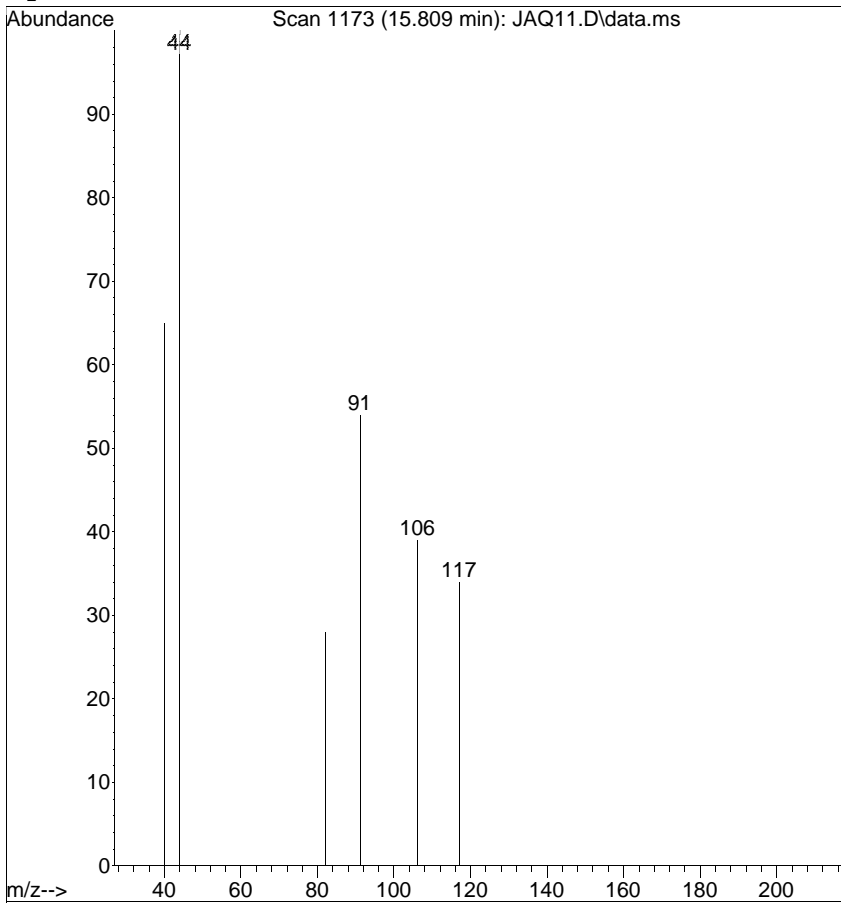
Tgt Ion	Resp	Lower	Upper
91	1715	100	
106	0.0	9.1	49.1#



Ref

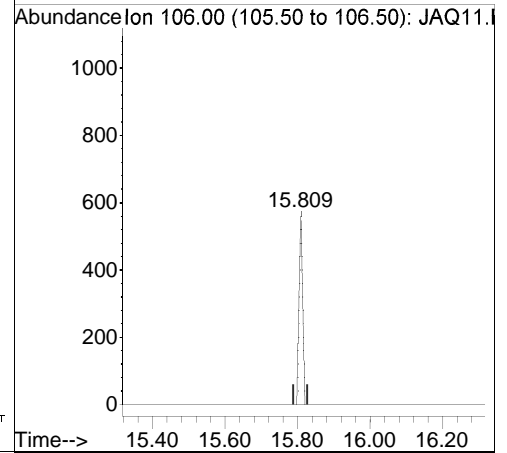


Raw

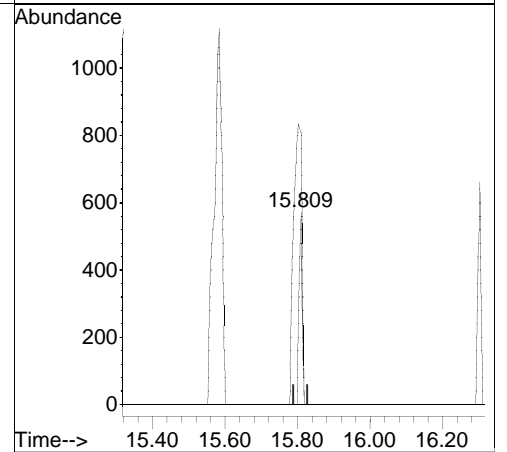
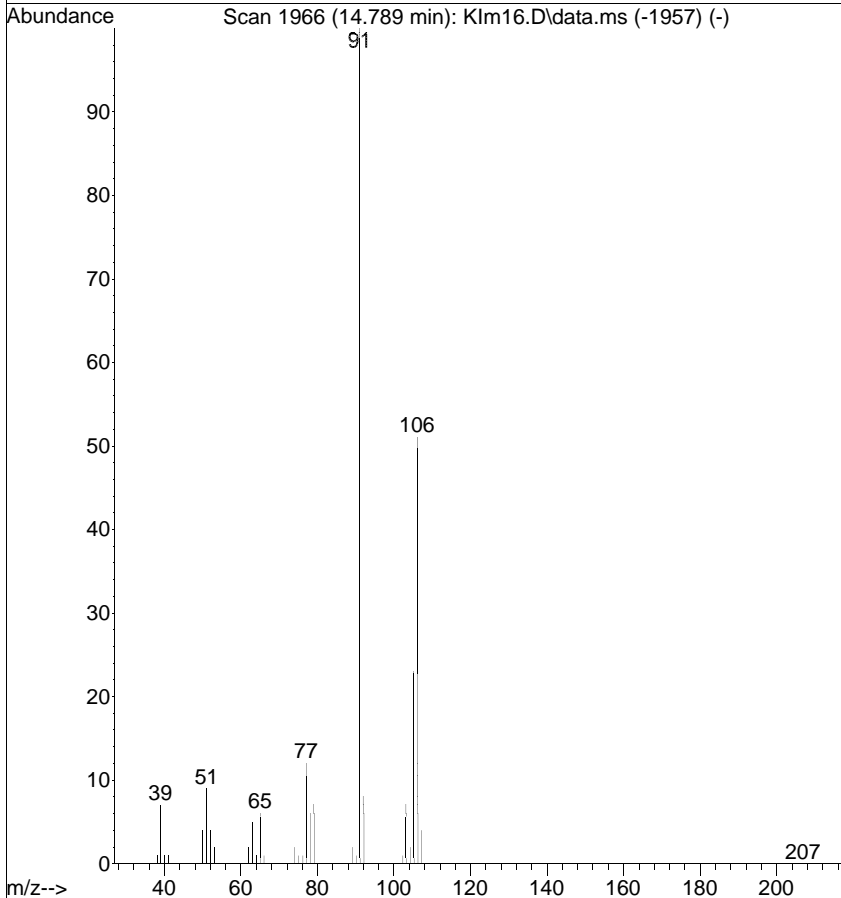


#63
 m,p-Xylenes
 Concen: 0.0243 ug/L
 RT: 15.809 min Scan# 1173
 Delta R.T. -0.008 min
 Lab File: JAQ11.D
 Acq: 26 Jan 2019 2:09 pm

Tgt Ion	Resp
106	339
91	139.8
	203.7
	243.7#



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8260B

Inst : MSVOA10 Lab ID : 306574-004 Client ID : DUP01182019-01
 Seqnum : 499037978009 Matrix : Water Acct : TRC-SF (MJD)
 File : jaq09 Batch : 267281 Time : 26-JAN-2019 13:06
 Cal : 499010456001 Caldate : 07-JAN-2019 Caltype : WATER
 IDF : 1.0 Raw Units : ug/L Units : ug/L

Analyte	Raw	Result	RL	Blank	Flags
MTBE	0	ND	0.5		u
Benzene	0	ND	0.5		u
Toluene	0	ND	0.5		u
Ethylbenzene	0.04100	ND	0.5		u
m,p-Xylenes	0	ND	0.5		u
o-Xylene	0	ND	0.5		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	46.57	50.00	46.57	93	80-121	u
1,2-Dichloroethane-d4	45.12	50.00	45.12	90	80-134	u
Toluene-d8	45.58	50.00	45.58	91	80-120	u
Bromofluorobenzene	46.32	50.00	46.32	93	80-120	u

ISTD (ICAL ja719)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE RT	Drift
Pentafluorobenzene	473385	503878	6.44	10.40	10.38	-0.02
1,4-Difluorobenzene	853668	961376	12.62	11.56	11.54	-0.02
Chlorobenzene-d5	705270	815530	15.63	15.61	15.58	-0.03
1,4-Dichlorobenzene-d4	345170	369759	7.12	18.30	18.28	-0.02

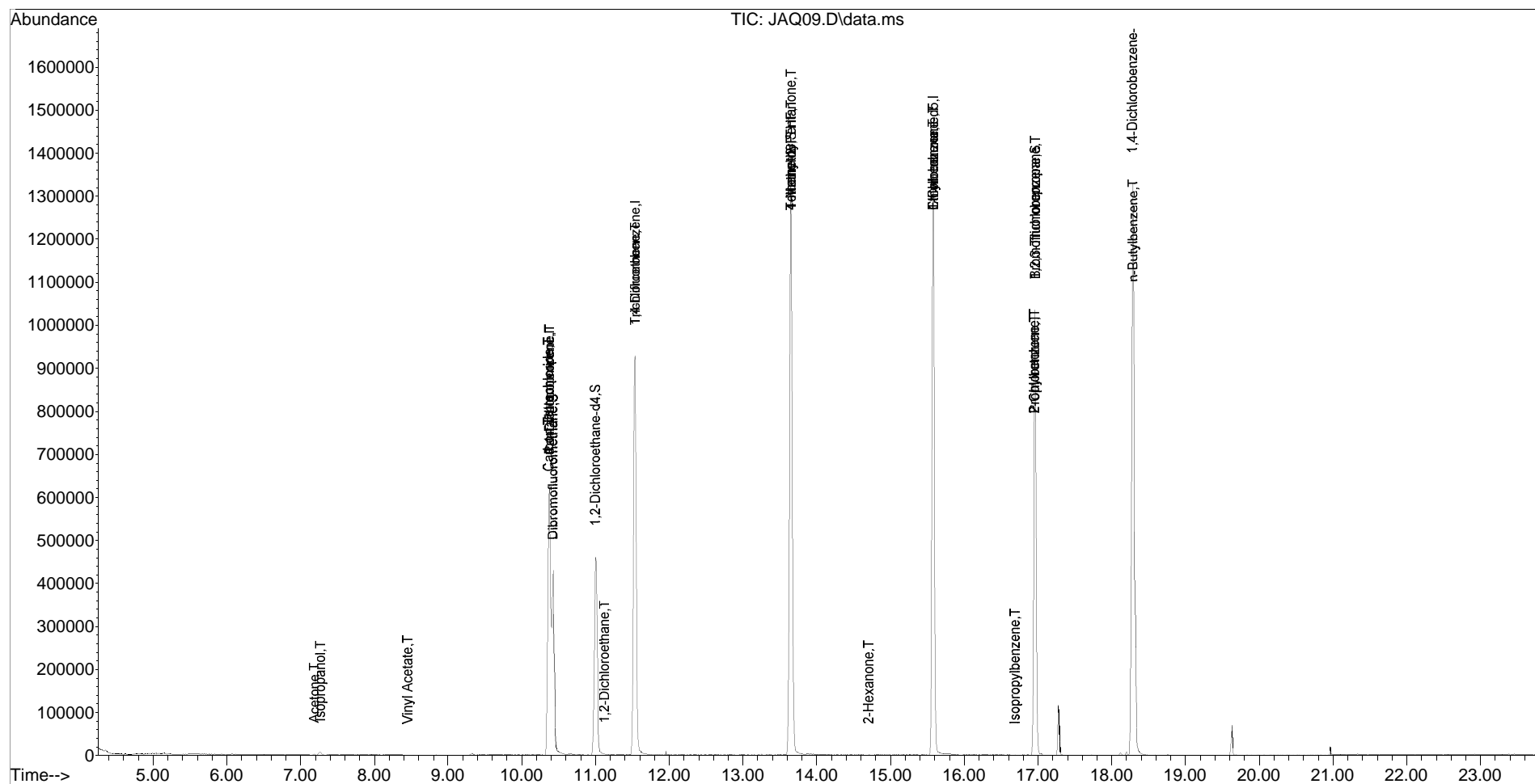
Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

u=use

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ09.D
 Acq On : 26 Jan 2019 1:06 pm
 Operator :
 Sample : s,306574-004
 Misc : 267281,1/1,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 26 13:31:12 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ09.D
 Acq On : 26 Jan 2019 1:06 pm
 Operator :
 Sample : s,306574-004
 Misc : 267281,1/1,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 26 13:31:12 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.376	168	503878	50.0000	ug/L	-0.03
32) 1,4-Difluorobenzene	11.539	114	961376	50.0000	ug/L	-0.03
49) Chlorobenzene-d5	15.582	117	815530	50.0000	ug/L	-0.02
67) 1,4-Dichlorobenzene-d4	18.283	152	369759	50.0000	ug/L	0.00

System Monitoring Compounds

30) Dibromofluoromethane	10.425	113	350425	46.5687	ug/L	-0.03
36) 1,2-Dichloroethane-d4	10.997	65	404691	45.1213	ug/L	-0.03
40) Trifluorotoluene	0.000	146	0	0.0000	ug/L	
50) Toluene-d8	13.649	98	1060787	45.5790	ug/L	-0.03
69) Bromofluorobenzene	16.962	95	420218	46.3234	ug/L	0.00

Target Compounds

						Qvalue
2) Freon 12	0.000	85	0	N.D.		
3) Chloromethane	0.000	50	0	N.D.		
4) Vinyl Chloride	0.000	62	0	N.D.		
5) Bromomethane	0.000	94	0	N.D.		
6) Chloroethane	0.000	64	0	N.D.		
7) Trichlorofluoromethane	0.000	101	0	N.D.		
8) Ethanol	0.000	45	0	N.D.		
9) Freon 113	0.000	101	0	N.D.		
10) 1,1-Dichloroethene	0.000	96	0	N.D.		
11) Acetone	7.191	43	5355	0.8499	ug/L	85
12) Isopropanol	7.270	45	14460	14.1378	ug/L	92
13) Iodomethane	0.000	142	0	N.D.		
14) Carbon Disulfide	0.000	76	0	N.D.		
15) Methylene Chloride	0.000	84	0	N.D.		
16) tert-Butyl Alcohol (TBA)	0.000	59	0	N.D.		
17) MTBE	0.000	73	0	N.D.		
18) trans-1,2-Dichloroethene	0.000	96	0	N.D.		
19) n-Hexane	0.000	57	0	N.D.		
20) Isopropyl Ether (DIPE)	0.000	45	0	N.D.		
21) Vinyl Acetate	8.453	43	345	0.0141	ug/L	81
22) 1,1-Dichloroethane	0.000	63	0	N.D.		
23) ETBE	0.000	59	0	N.D.		
24) 2,2-Dichloropropane	0.000	77	0	N.D.		
25) cis-1,2-Dichloroethene	0.000	96	0	N.D.		
26) 2-Butanone	0.000	43	0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ09.D
 Acq On : 26 Jan 2019 1:06 pm
 Operator :
 Sample : s,306574-004
 Misc : 267281,1/1,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 26 13:31:12 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	0.000	128	0	N.D.		
28) Tetrahydrofuran	0.000	42	0	N.D.		
29) Chloroform	0.000	83	0	N.D.		
31) 1,1,1-Trichloroethane	0.000	97	0	N.D.		
33) Carbon Tetrachloride	10.366	117	47740	4.5290	ug/L	# 15
34) 1,1-Dichloropropene	10.376	75	52252	4.2226	ug/L	# 50
35) Benzene	0.000	78	0	N.D.		
37) TAME	0.000	73	0	N.D.		
38) 1,2-Dichloroethane	11.125	62	815	0.0589	ug/L	# 48
39) Trichloroethene	11.539	95	27257	2.9663	ug/L	# 3
41) 1,2-Dichloropropane	0.000	63	0	N.D.		
42) Dibromomethane	0.000	93	0	N.D.		
43) _1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	0.000	83	0	N.D.		
45) 2-Chloroethylvinylether	0.000	63	0	N.D.		
46) Tetramethyl THF	13.649	43	6459	0.2802	ug/L	# 1
47) cis-1,3-Dichloropropene	0.000	75	0	N.D.		
48) 4-Methyl-2-Pentanone	13.649	43	6459	0.4386	ug/L	# 1
51) Toluene	0.000	91	0	N.D.		
52) trans-1,3-Dichloropropene	0.000	75	0	N.D.		
53) 1,1,2-Trichloroethane	0.000	85	0	N.D.		
54) Tetrachloroethene	0.000	166	0	N.D.		
55) 2-Hexanone	14.704	43	522	0.0461	ug/L	# 38
56) 1,3-Dichloropropane	0.000	76	0	N.D.		
57) Dibromochloromethane	0.000	129	0	N.D.		
58) 1,2-Dibromoethane	0.000	107	0	N.D.		
59) 1-Chlorohexane	15.582	91	1560	0.1344	ug/L	# 1
60) Chlorobenzene	0.000	112	0	N.D.		
61) Ethylbenzene	15.582	91	1560	0.0410	ug/L	# 46
62) 1,1,1,2-Tetrachloroethane	0.000	131	0	N.D.		
63) m,p-Xylenes	0.000	106	0	N.D.		
64) o-Xylene	0.000	106	0	N.D.		
65) Styrene	0.000	104	0	N.D.		
66) Bromoform	0.000	173	0	N.D.		
68) Isopropylbenzene	16.686	105	1488	0.0440	ug/L	# 50
70) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.		
71) Propylbenzene	16.952	91	1284	0.0305	ug/L	# 55
72) Bromobenzene	0.000	156	0	N.D.		
73) 1,2,3-Trichloropropane	16.962	75	190993	19.2959	ug/L	# 23
74) 1,3,5-Trimethylbenzene	0.000	105	0	N.D.		
75) 2-Chlorotoluene	16.952	91	1284	0.0458	ug/L	# 47
76) 4-Chlorotoluene	0.000	91	0	N.D.		
77) tert-Butylbenzene	0.000	119	0	N.D.		

Quantitation Report (Not Reviewed)

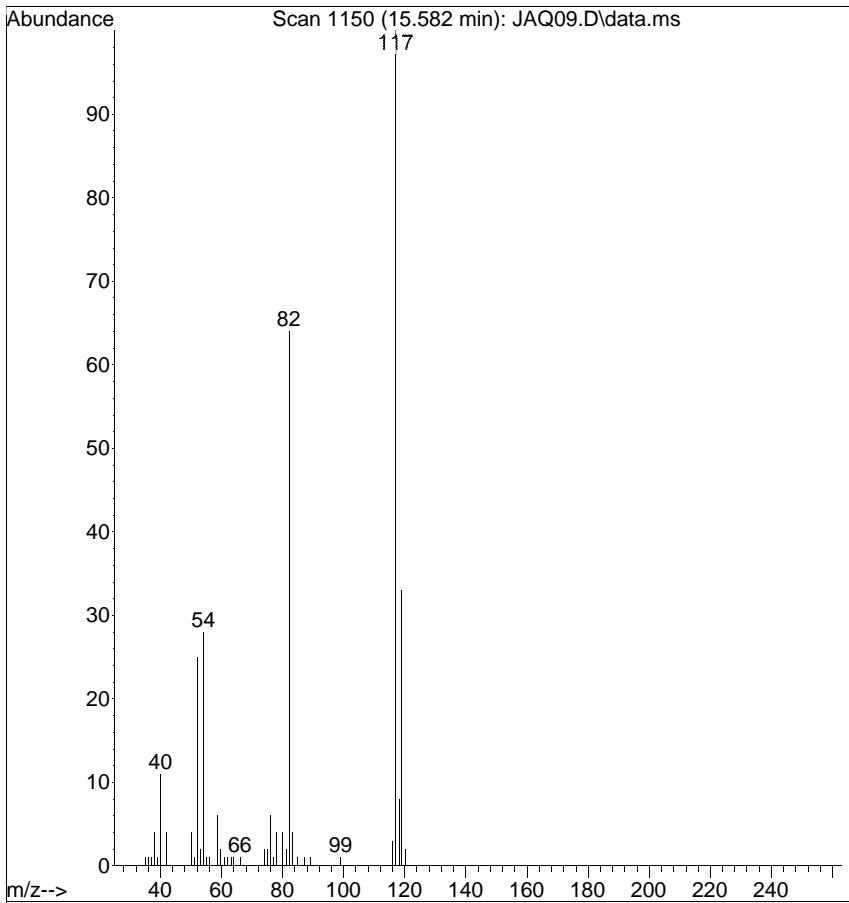
Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ09.D
 Acq On : 26 Jan 2019 1:06 pm
 Operator :
 Sample : s,306574-004
 Misc : 267281,1/1,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 26 13:31:12 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	0.000	105	0	N.D.		
79) sec-Butylbenzene	0.000	105	0	N.D.		
80) para-Isopropyl Toluene	0.000	119	0	N.D.		
81) 1,3-Dichlorobenzene	0.000	146	0	N.D.		
82) 1,4-Dichlorobenzene	0.000	146	0	N.D.		
83) n-Butylbenzene	18.293	91	858	0.0362	ug/L	# 32
84) 1,2-Dichlorobenzene	0.000	146	0	N.D.		
85) 1,2-Dibromo-3-Chloropropane	0.000	75	0	N.D.		
86) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.		
87) Hexachlorobutadiene	0.000	225	0	N.D.		
88) Naphthalene	0.000	128	0	N.D.		
89) 1,2,3-Trichlorobenzene	0.000	180	0	N.D.		

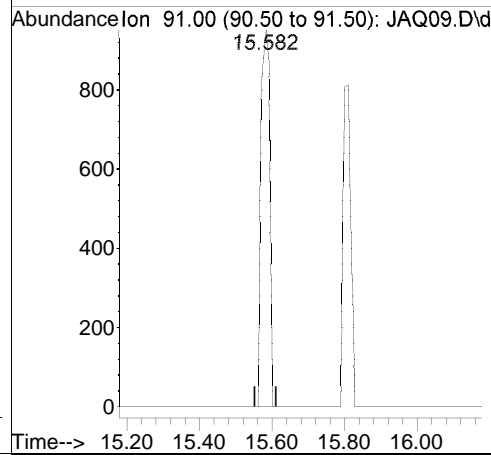
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

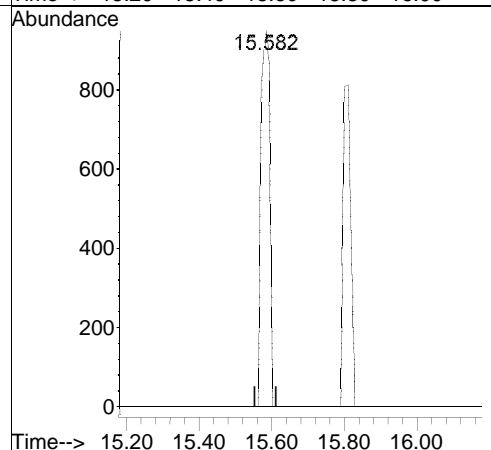
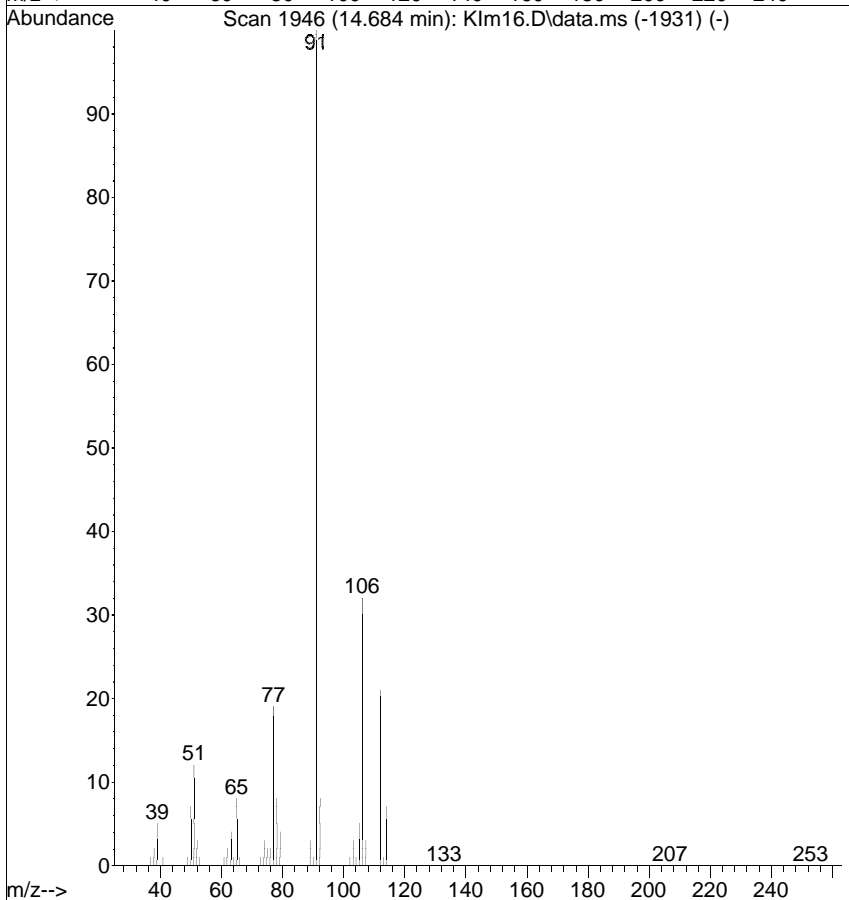


#61
 Ethylbenzene
 Concen: 0.0410 ug/L
 RT: 15.582 min Scan# 1150
 Delta R.T. -0.097 min
 Lab File: JAQ09.D
 Acq: 26 Jan 2019 1:06 pm

Tgt Ion: 91 Resp: 1560
 Ion Ratio Lower Upper
 91 100
 106 0.0 9.1 49.1#



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8260B

Inst : MSVOA10 Lab ID : 306574-005 Client ID : TB01182019
 Seqnum : 499037978007 Matrix : Water Acct : TRC-SF (MJD)
 File : jaq07 Batch : 267281 Time : 26-JAN-2019 12:03
 Cal : 499010456001 Caldate : 07-JAN-2019 Caltype : WATER
 IDF : 1.0 Raw Units : ug/L Units : ug/L

Analyte	Raw	Result	RL	Blank	Flags
MTBE	0	ND	0.5		u
Benzene	0	ND	0.5		u
Toluene	0	ND	0.5		u
Ethylbenzene	0.04880	ND	0.5		u
m,p-Xylenes	0	ND	0.5		u
o-Xylene	0	ND	0.5		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	48.56	50.00	48.56	97	80-121	u
1,2-Dichloroethane-d4	45.36	50.00	45.36	91	80-134	u
Toluene-d8	44.90	50.00	44.90	90	80-120	u
Bromofluorobenzene	46.52	50.00	46.52	93	80-120	u

ISTD (ICAL ja719)	ICAL Area	SAMPLE Area	%Drift	ICAL RT	SAMPLE RT	Drift
Pentafluorobenzene	473385	498330	5.27	10.40	10.38	-0.02
1,4-Difluorobenzene	853668	960230	12.48	11.56	11.53	-0.03
Chlorobenzene-d5	705270	827599	17.34	15.61	15.58	-0.03
1,4-Dichlorobenzene-d4	345170	381318	10.47	18.30	18.28	-0.02

01/26/19 : Was analyzed with more than 1 mL of headspace in the VOA vial.

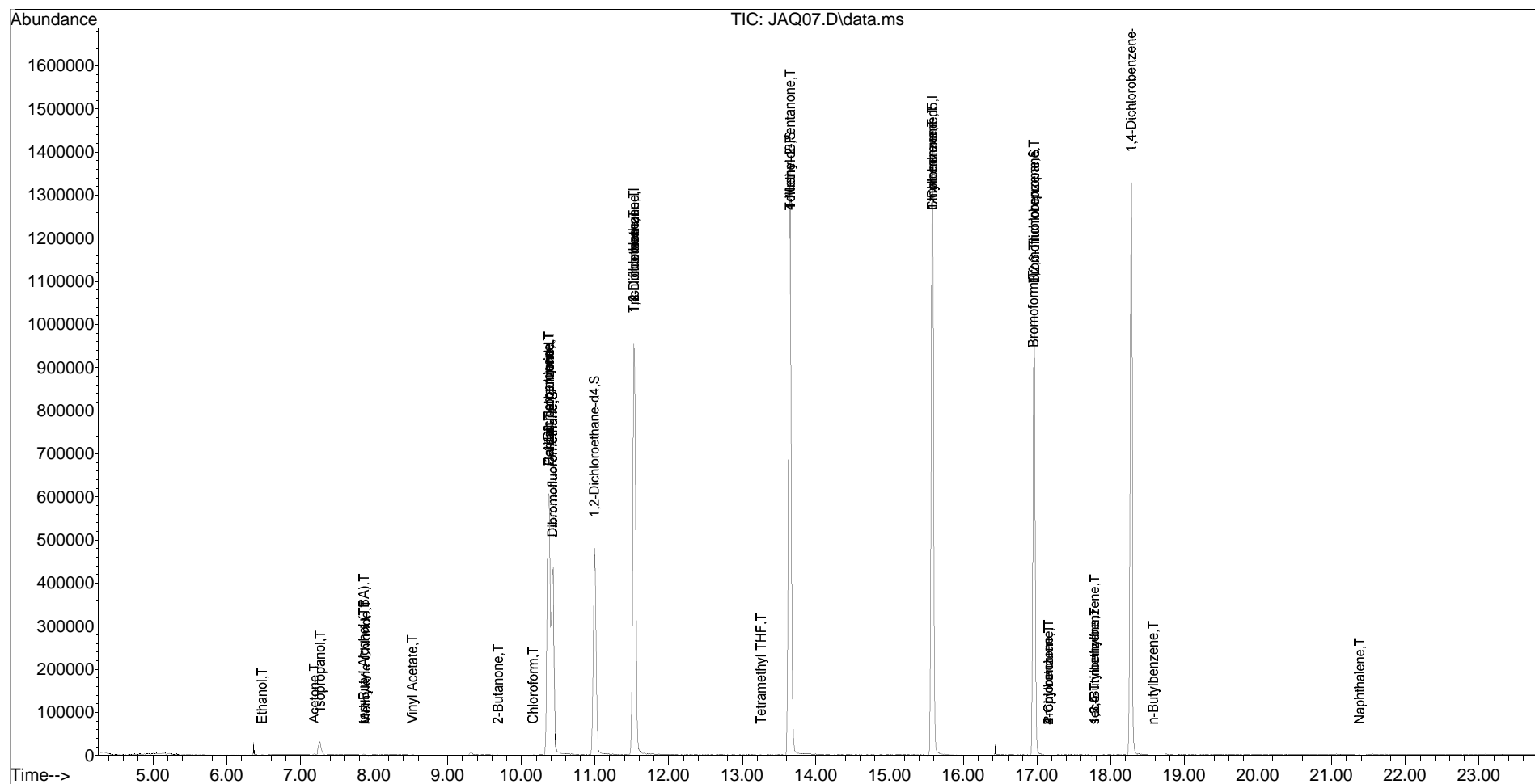
Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

u=use

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ07.D
 Acq On : 26 Jan 2019 12:03 pm
 Operator :
 Sample : s,306574-005
 Misc : 267281,1/1, //hm
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 26 12:28:38 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ07.D
 Acq On : 26 Jan 2019 12:03 pm
 Operator :
 Sample : s,306574-005
 Misc : 267281,1/1, //hm
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 26 12:28:38 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.376	168	498330	50.0000	ug/L	-0.03
32) 1,4-Difluorobenzene	11.530	114	960230	50.0000	ug/L	-0.04
49) Chlorobenzene-d5	15.582	117	827599	50.0000	ug/L	-0.02
67) 1,4-Dichlorobenzene-d4	18.284	152	381318	50.0000	ug/L	0.00

System Monitoring Compounds

30) Dibromofluoromethane	10.426	113	361407	48.5628	ug/L	-0.03
36) 1,2-Dichloroethane-d4	10.997	65	406350	45.3603	ug/L	-0.03
40) Trifluorotoluene	0.000	146	0	0.0000	ug/L	
50) Toluene-d8	13.650	98	1060458	44.9004	ug/L	-0.03
69) Bromofluorobenzene	16.963	95	435168	46.5172	ug/L	0.00

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Rel.RT	Qvalue
2) Freon 12	0.000	85	0	N.D.			
3) Chloromethane	0.000	50	0	N.D.			
4) Vinyl Chloride	0.000	62	0	N.D.			
5) Bromomethane	0.000	94	0	N.D.			
6) Chloroethane	0.000	64	0	N.D.			
7) Trichlorofluoromethane	0.000	101	0	N.D.			
8) Ethanol	6.482	45	2786	13.7165	ug/L		95
9) Freon 113	0.000	101	0	N.D.			
10) 1,1-Dichloroethene	0.000	96	0	N.D.			
11) Acetone	7.191	43	6827	1.0955	ug/L		95
12) Isopropanol	7.270	45	56242	55.6010	ug/L		94
13) Iodomethane	0.000	142	0	N.D.			
14) Carbon Disulfide	0.000	76	0	N.D.			
15) Methylene Chloride	7.892	84	561	0.0583	ug/L		# 40
16) tert-Butyl Alcohol (TBA)	7.862	59	3032	2.4053	ug/L		76
17) MTBE	0.000	73	0	N.D.			
18) trans-1,2-Dichloroethene	0.000	96	0	N.D.			
19) n-Hexane	0.000	57	0	N.D.			
20) Isopropyl Ether (DIPE)	0.000	45	0	N.D.			
21) Vinyl Acetate	8.523	43	1888	0.0778	ug/L		81
22) 1,1-Dichloroethane	0.000	63	0	N.D.			
23) ETBE	0.000	59	0	N.D.			
24) 2,2-Dichloropropane	0.000	77	0	N.D.			
25) cis-1,2-Dichloroethene	0.000	96	0	N.D.			
26) 2-Butanone	9.686	43	2255	0.2982	ug/L		64

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ07.D
 Acq On : 26 Jan 2019 12:03 pm
 Operator :
 Sample : s,306574-005
 Misc : 267281,1/1, //hm
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 26 12:28:38 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	0.000	128	0	N.D.		
28) Tetrahydrofuran	0.000	42	0	N.D.		
29) Chloroform	10.159	83	1755	0.1034	ug/L	98
31) 1,1,1-Trichloroethane	0.000	97	0	N.D.		
33) Carbon Tetrachloride	10.376	117	49855	4.7353	ug/L	# 14
34) 1,1-Dichloropropene	10.366	75	53996	4.3687	ug/L	# 50
35) Benzene	0.000	78	0	N.D.		
37) TAME	0.000	73	0	N.D.		
38) 1,2-Dichloroethane	11.530	62	34281	2.4804	ug/L	# 6
39) Trichloroethene	11.530	95	26123	2.8463	ug/L	# 3
41) 1,2-Dichloropropane	0.000	63	0	N.D.		
42) Dibromomethane	0.000	93	0	N.D.		
43) 1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	0.000	83	0	N.D.		
45) 2-Chloroethylvinylether	0.000	63	0	N.D.		
46) Tetramethyl THF	13.255	43	2543	0.1105	ug/L	# 67
47) cis-1,3-Dichloropropene	0.000	75	0	N.D.		
48) 4-Methyl-2-Pentanone	13.650	43	7186	0.4886	ug/L	# 1
51) Toluene	0.000	91	0	N.D.		
52) trans-1,3-Dichloropropene	0.000	75	0	N.D.		
53) 1,1,2-Trichloroethane	0.000	85	0	N.D.		
54) Tetrachloroethene	0.000	166	0	N.D.		
55) 2-Hexanone	0.000	43	0	N.D.		
56) 1,3-Dichloropropane	0.000	76	0	N.D.		
57) Dibromochloromethane	0.000	129	0	N.D.		
58) 1,2-Dibromoethane	0.000	107	0	N.D.		
59) 1-Chlorohexane	15.582	91	1883	0.1599	ug/L	# 1
60) Chlorobenzene	0.000	112	0	N.D.		
61) Ethylbenzene	15.582	91	1883	0.0488	ug/L	# 46
62) 1,1,1,2-Tetrachloroethane	0.000	131	0	N.D.		
63) m,p-Xylenes	0.000	106	0	N.D.		
64) o-Xylene	0.000	106	0	N.D.		
65) Styrene	0.000	104	0	N.D.		
66) Bromoform	16.953	173	407	0.0645	ug/L	# 32
68) Isopropylbenzene	0.000	105	0	N.D.		
70) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.		
71) Propylbenzene	17.160	91	1016	0.0234	ug/L	# 55
72) Bromobenzene	0.000	156	0	N.D.		
73) 1,2,3-Trichloropropane	16.963	75	200030	19.5963	ug/L	# 23
74) 1,3,5-Trimethylbenzene	17.781	105	618	0.0224	ug/L	# 30
75) 2-Chlorotoluene	17.160	91	1016	0.0351	ug/L	# 47
76) 4-Chlorotoluene	17.160	91	1016	0.0383	ug/L	# 44
77) tert-Butylbenzene	0.000	119	0	N.D.		

Quantitation Report (Not Reviewed)

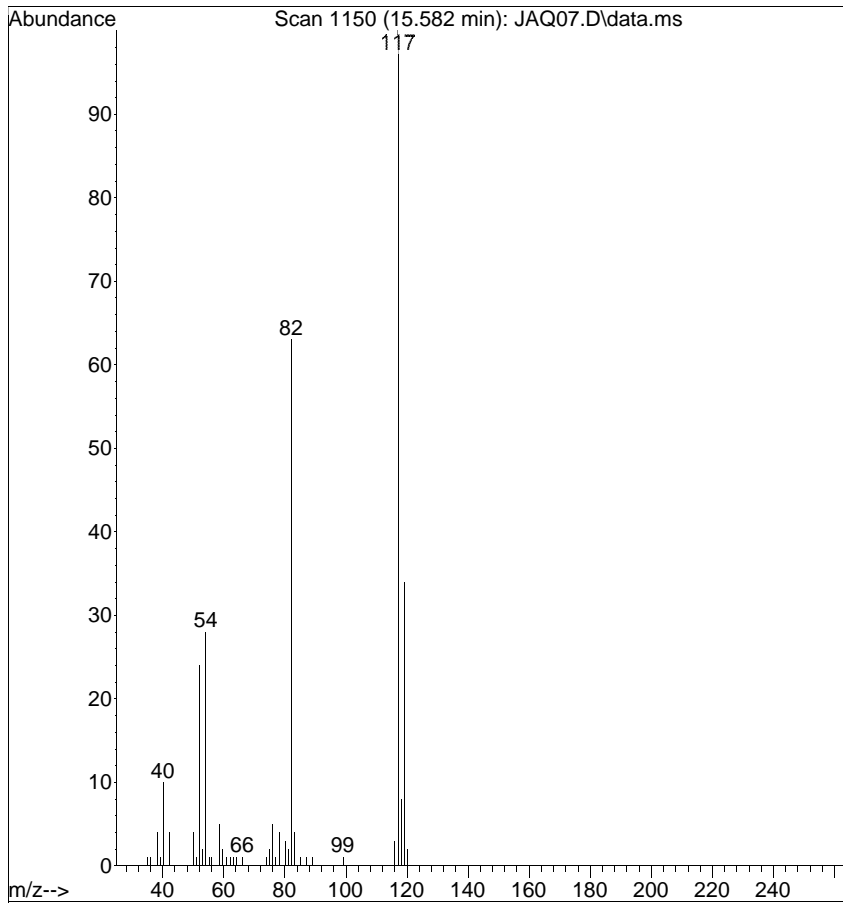
Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ07.D
 Acq On : 26 Jan 2019 12:03 pm
 Operator :
 Sample : s,306574-005
 Misc : 267281,1/1, //hm
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 26 12:28:38 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.781	105	618	0.0234	ug/L	# 32
79) sec-Butylbenzene	17.781	105	618	0.0167	ug/L	59
80) para-Isopropyl Toluene	0.000	119	0	N.D.		
81) 1,3-Dichlorobenzene	0.000	146	0	N.D.		
82) 1,4-Dichlorobenzene	0.000	146	0	N.D.		
83) n-Butylbenzene	18.580	91	670	0.0274	ug/L	# 32
84) 1,2-Dichlorobenzene	0.000	146	0	N.D.		
85) 1,2-Dibromo-3-Chloropropane	0.000	75	0	N.D.		
86) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.		
87) Hexachlorobutadiene	0.000	225	0	N.D.		
88) Naphthalene	21.380	128	959	0.0542	ug/L	69
89) 1,2,3-Trichlorobenzene	0.000	180	0	N.D.		

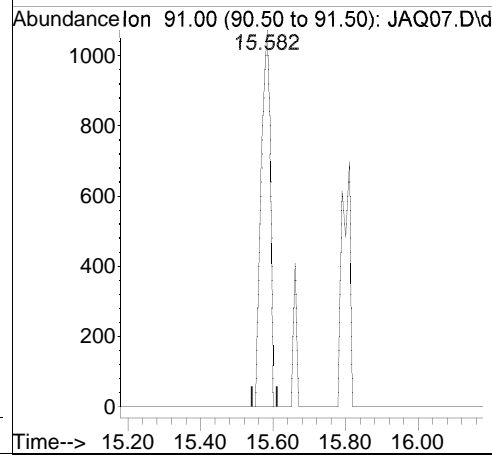
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

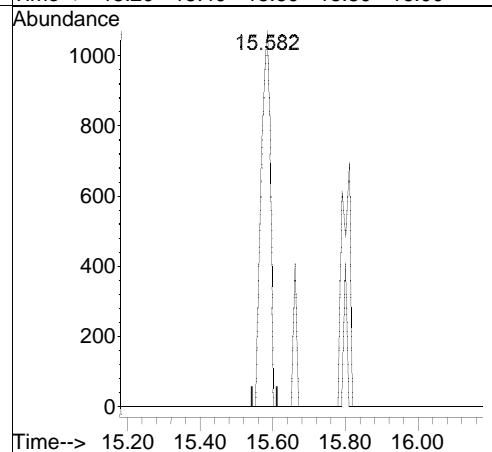
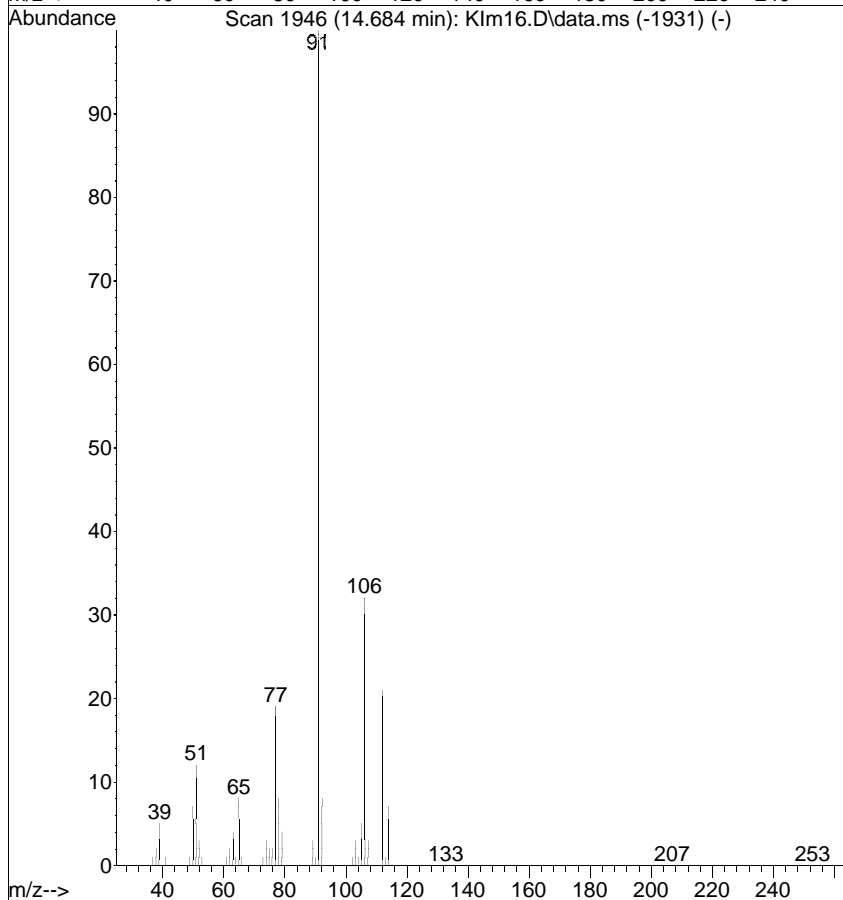


#61
 Ethylbenzene
 Concen: 0.0488 ug/L
 RT: 15.582 min Scan# 1150
 Delta R.T. -0.097 min
 Lab File: JAQ07.D
 Acq: 26 Jan 2019 12:03 pm

Tgt Ion: 91 Resp: 1883
 Ion Ratio Lower Upper
 91 100
 106 0.0 9.1 49.1#



Ref



QC Raw Data

ENTHALPY BLANK USER REPORT FOR 306574 MSVOA Water
EPA 8260B

Inst : MSVOA10 Lab ID : QC962720
 Seqnum : 499037978006.2 Matrix : Water
 File : jaq06 Batch : 267281 Time : 26-JAN-2019 11:32
 Cal : 499010456001 Caldate : 07-JAN-2019 Caltype : WATER
 IDF : 1.0 Raw Units : ug/L Units : ug/L

Analyte	Raw	Result	RL	Flags
MTBE	0	ND	0.5	u
Benzene	0	ND	0.5	u
Toluene	0	ND	0.5	u
Ethylbenzene	0.01070	ND	0.5	u
m,p-Xylenes	0.04480	ND	0.5	u
o-Xylene	0	ND	0.5	u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Dibromofluoromethane	48.29	50.00	48.29	97	80-121	u
1,2-Dichloroethane-d4	44.06	50.00	44.06	88	80-134	u
Toluene-d8	45.99	50.00	45.99	92	80-120	u
Bromofluorobenzene	46.10	50.00	46.10	92	80-120	u

ISTD (ICAL ja719)	ICAL Area	BLANK Area	%Drift	ICAL RT	BLANK RT	Drift
Pentafluorobenzene	473385	500663	5.76	10.40	10.37	-0.03
1,4-Difluorobenzene	853668	979851	14.78	11.56	11.54	-0.02
Chlorobenzene-d5	705270	834116	18.27	15.61	15.58	-0.03
1,4-Dichlorobenzene-d4	345170	385679	11.74	18.30	18.28	-0.02

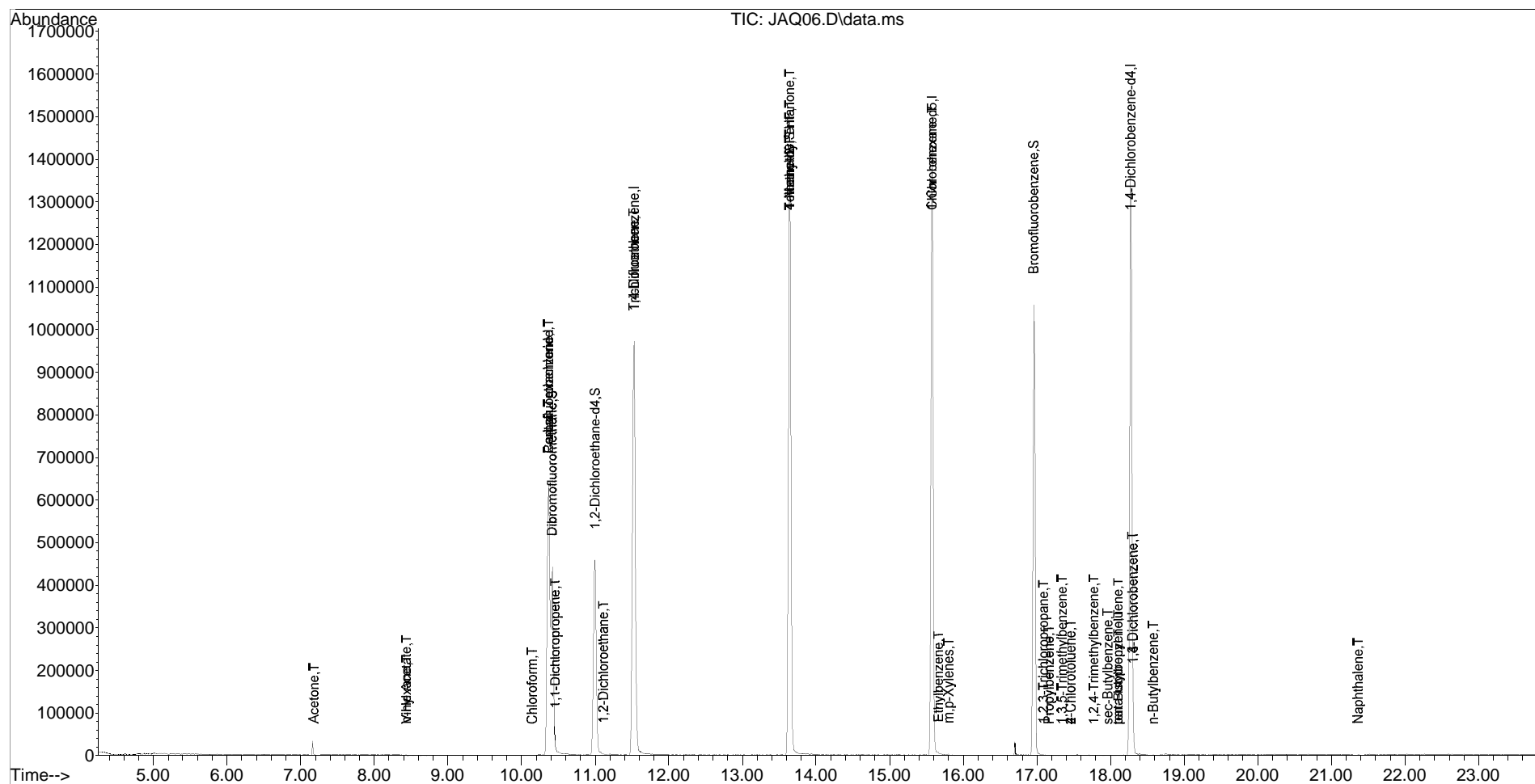
Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

u=use

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ06.D
 Acq On : 26 Jan 2019 11:32 am
 Operator :
 Sample : blank, qc962720
 Misc : 267281,1/1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 26 11:57:11 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ06.D
 Acq On : 26 Jan 2019 11:32 am
 Operator :
 Sample : blank,qc962720
 Misc : 267281,1/1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 26 11:57:11 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.371	168	500663	50.0000	ug/L	-0.03
32) 1,4-Difluorobenzene	11.535	114	979851	50.0000	ug/L	-0.03
49) Chlorobenzene-d5	15.577	117	834116	50.0000	ug/L	-0.02
67) 1,4-Dichlorobenzene-d4	18.279	152	385679	50.0000	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	10.421	113	361041	48.2875	ug/L	-0.03
36) 1,2-Dichloroethane-d4	11.002	65	402729	44.0559	ug/L	-0.02
40) Trifluorotoluene	0.000	146	0	0.0000	ug/L	
50) Toluene-d8	13.645	98	1094806	45.9925	ug/L	-0.03
69) Bromofluorobenzene	16.958	95	436214	46.1018	ug/L	-0.01

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	0.000	85	0	N.D.		
3) Chloromethane	0.000	50	0	N.D.		
4) Vinyl Chloride	0.000	62	0	N.D.		
5) Bromomethane	0.000	94	0	N.D.		
6) Chloroethane	0.000	64	0	N.D.		
7) Trichlorofluoromethane	0.000	101	0	N.D.		
8) Ethanol	0.000	45	0	N.D.		
9) Freon 113	0.000	101	0	N.D.		
10) 1,1-Dichloroethene	0.000	96	0	N.D.		
11) Acetone	7.186	43	2282	0.3645	ug/L	# 54
12) Isopropanol	0.000	45	0	N.D.		
13) Iodomethane	0.000	142	0	N.D.		
14) Carbon Disulfide	0.000	76	0	N.D.		
15) Methylene Chloride	0.000	84	0	N.D.		
16) tert-Butyl Alcohol (TBA)	0.000	59	0	N.D.		
17) MTBE	0.000	73	0	N.D.		
18) trans-1,2-Dichloroethene	0.000	96	0	N.D.		
19) n-Hexane	8.439	57	304	0.0435	ug/L	# 78
20) Isopropyl Ether (DIPE)	0.000	45	0	N.D.		
21) Vinyl Acetate	8.439	43	691	0.0284	ug/L	81
22) 1,1-Dichloroethane	0.000	63	0	N.D.		
23) ETBE	0.000	59	0	N.D.		
24) 2,2-Dichloropropane	0.000	77	0	N.D.		
25) cis-1,2-Dichloroethene	0.000	96	0	N.D.		
26) 2-Butanone	0.000	43	0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ06.D
 Acq On : 26 Jan 2019 11:32 am
 Operator :
 Sample : blank,qc962720
 Misc : 267281,1/1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 26 11:57:11 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	0.000	128	0	N.D.		
28) Tetrahydrofuran	0.000	42	0	N.D.		
29) Chloroform	10.145	83	1328	0.0778	ug/L	# 17
31) 1,1,1-Trichloroethane	0.000	97	0	N.D.		
33) Carbon Tetrachloride	10.371	117	49289	4.5878	ug/L	# 15
34) 1,1-Dichloropropene	10.460	75	478	0.0379	ug/L	# 45
35) Benzene	0.000	78	0	N.D.		
37) TAME	0.000	73	0	N.D.		
38) 1,2-Dichloroethane	11.111	62	559	0.0396	ug/L	# 48
39) Trichloroethene	11.535	95	27280	2.9128	ug/L	# 3
41) 1,2-Dichloropropane	0.000	63	0	N.D.		
42) Dibromomethane	0.000	93	0	N.D.		
43) 1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	0.000	83	0	N.D.		
45) 2-Chloroethylvinylether	0.000	63	0	N.D.		
46) Tetramethyl THF	13.645	43	7677	0.3268	ug/L	# 1
47) cis-1,3-Dichloropropene	0.000	75	0	N.D.		
48) 4-Methyl-2-Pentanone	13.645	43	7677	0.5115	ug/L	# 1
51) Toluene	0.000	91	0	N.D.		
52) trans-1,3-Dichloropropene	0.000	75	0	N.D.		
53) 1,1,2-Trichloroethane	0.000	85	0	N.D.		
54) Tetrachloroethene	0.000	166	0	N.D.		
55) 2-Hexanone	0.000	43	0	N.D.		
56) 1,3-Dichloropropane	0.000	76	0	N.D.		
57) Dibromochloromethane	0.000	129	0	N.D.		
58) 1,2-Dibromoethane	0.000	107	0	N.D.		
59) 1-Chlorohexane	15.577	91	1926	0.1622	ug/L	# 1
60) Chlorobenzene	0.000	112	0	N.D.		
61) Ethylbenzene	15.666	91	414	0.0107	ug/L	# 46
62) 1,1,1,2-Tetrachloroethane	0.000	131	0	N.D.		
63) m,p-Xylenes	15.804	106	641	0.0448	ug/L	# 60
64) o-Xylene	0.000	106	0	N.D.		
65) Styrene	0.000	104	0	N.D.		
66) Bromoform	0.000	173	0	N.D.		
68) Isopropylbenzene	0.000	105	0	N.D.		
70) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.		
71) Propylbenzene	17.165	91	1405	0.0320	ug/L	# 55
72) Bromobenzene	0.000	156	0	N.D.		
73) 1,2,3-Trichloropropane	17.096	75	587	0.0569	ug/L	# 22
74) 1,3,5-Trimethylbenzene	17.342	105	341	0.0122	ug/L	# 30
75) 2-Chlorotoluene	17.461	91	544	0.0186	ug/L	# 47
76) 4-Chlorotoluene	17.461	91	544	0.0203	ug/L	# 44
77) tert-Butylbenzene	18.102	119	983	0.0413	ug/L	# 21

Quantitation Report (Not Reviewed)

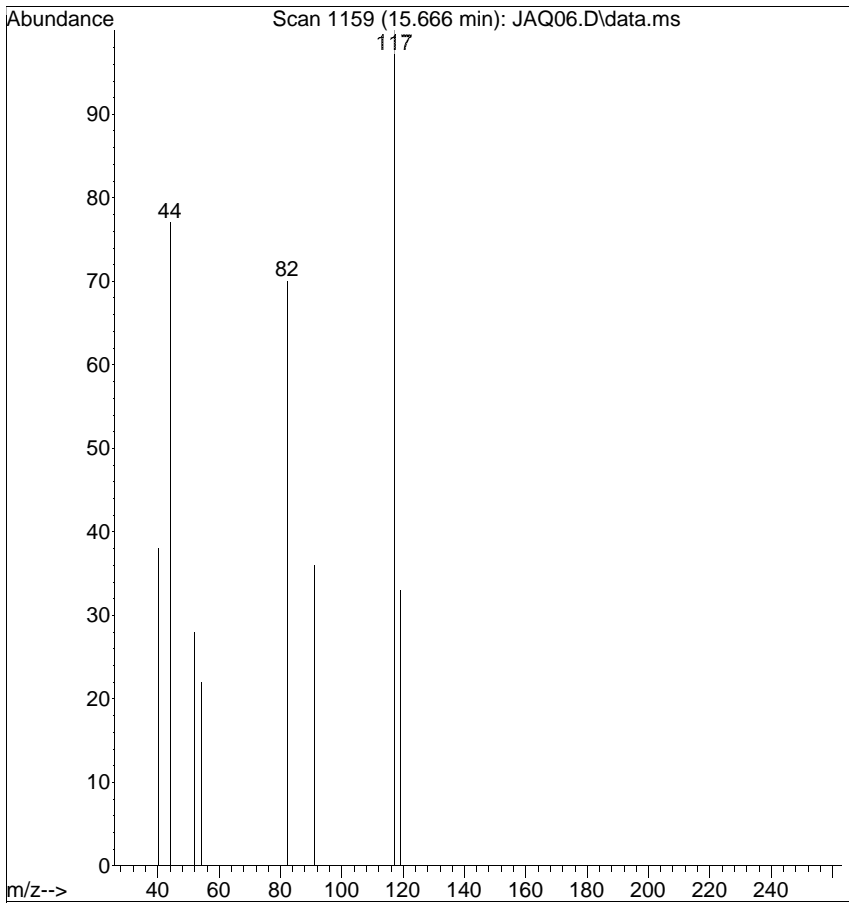
Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ06.D
 Acq On : 26 Jan 2019 11:32 am
 Operator :
 Sample : blank,qc962720
 Misc : 267281,1/1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 26 11:57:11 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.776	105	842	0.0316	ug/L	# 32
79) sec-Butylbenzene	17.963	105	941	0.0251	ug/L	59
80) para-Isopropyl Toluene	18.102	119	983	0.0360	ug/L	# 50
81) 1,3-Dichlorobenzene	18.309	146	347	0.0234	ug/L	# 47
82) 1,4-Dichlorobenzene	18.309	146	347	0.0232	ug/L	# 46
83) n-Butylbenzene	18.585	91	1640	0.0663	ug/L	# 75
84) 1,2-Dichlorobenzene	0.000	146	0	N.D.		
85) 1,2-Dibromo-3-Chloropropane	0.000	75	0	N.D.		
86) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.		
87) Hexachlorobutadiene	0.000	225	0	N.D.		
88) Naphthalene	21.365	128	2310	0.1290	ug/L	69
89) 1,2,3-Trichlorobenzene	0.000	180	0	N.D.		

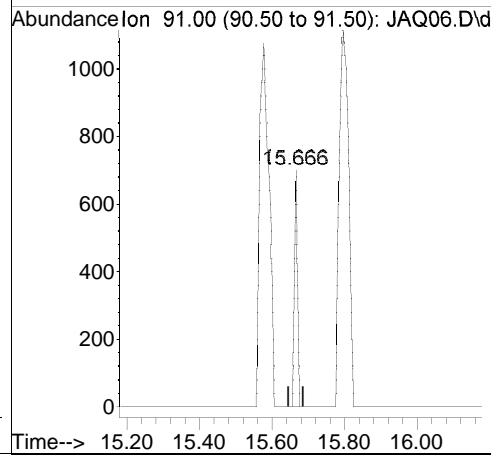
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

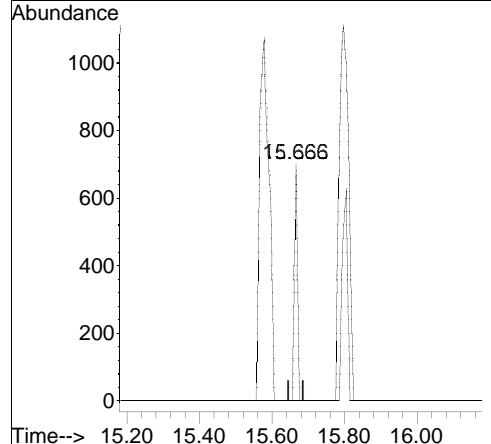
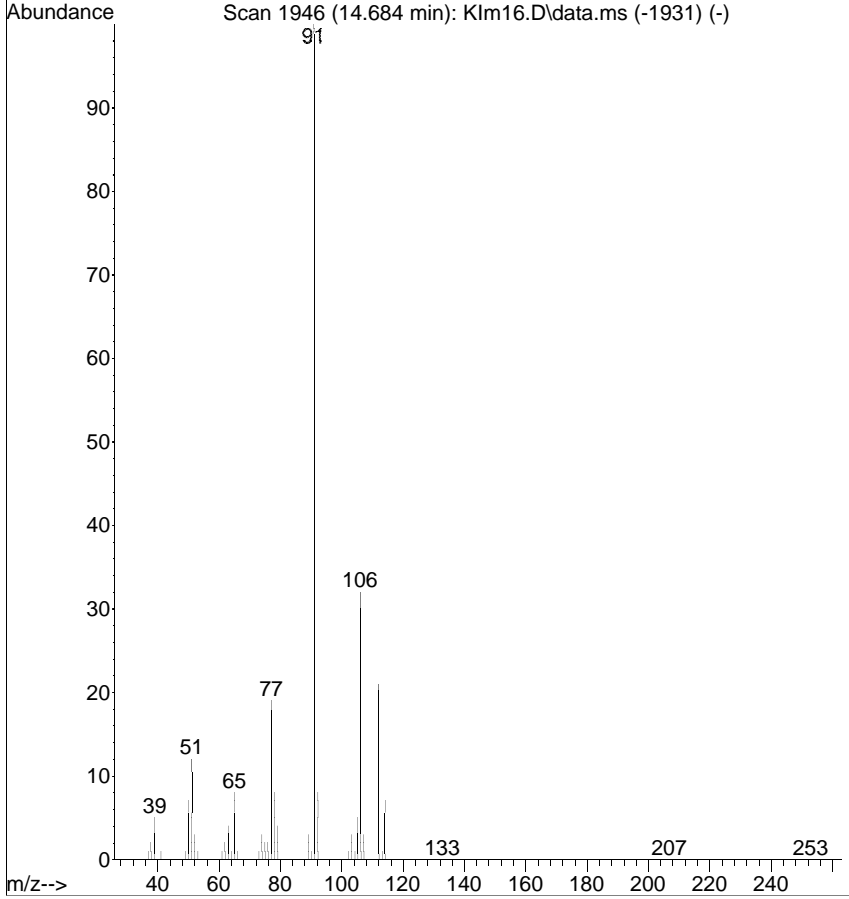


#61
 Ethylbenzene
 Concen: 0.0107 ug/L
 RT: 15.666 min Scan# 1159
 Delta R.T. -0.013 min
 Lab File: JAQ06.D
 Acq: 26 Jan 2019 11:32 am

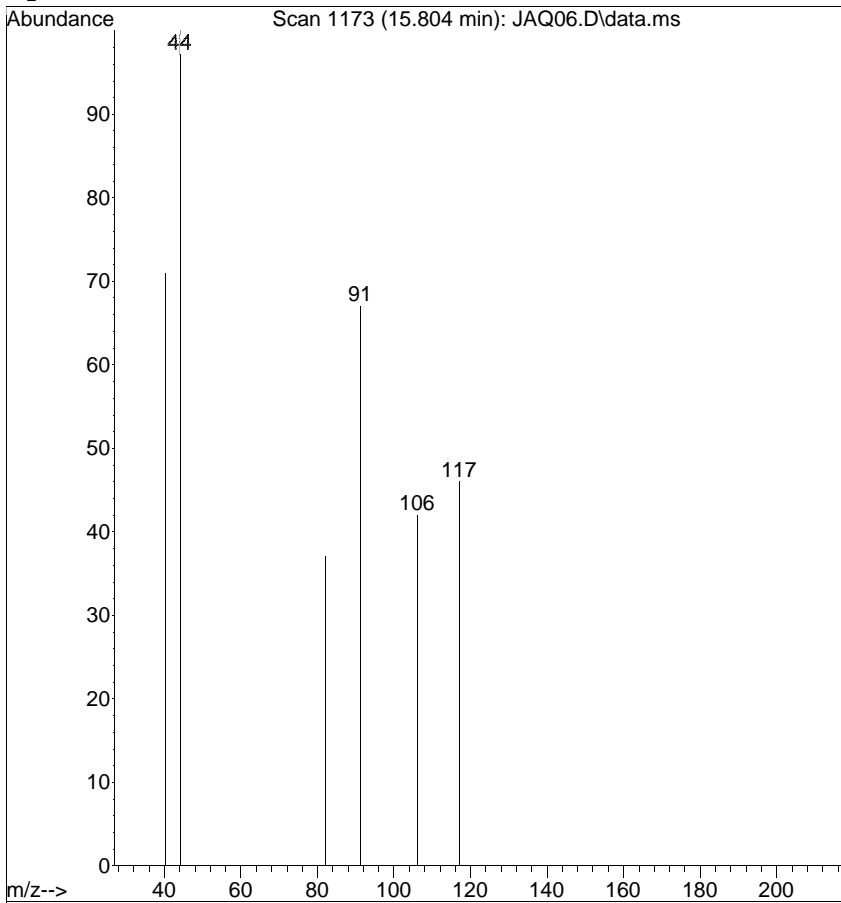
Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	9.1	49.1#



Ref

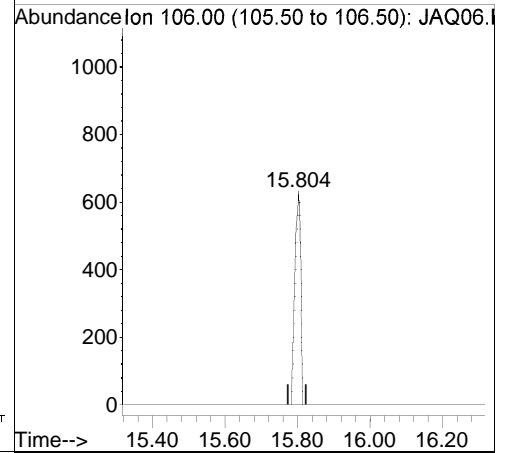


Raw

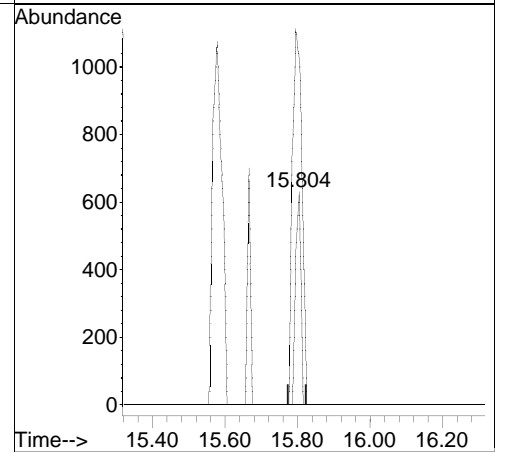
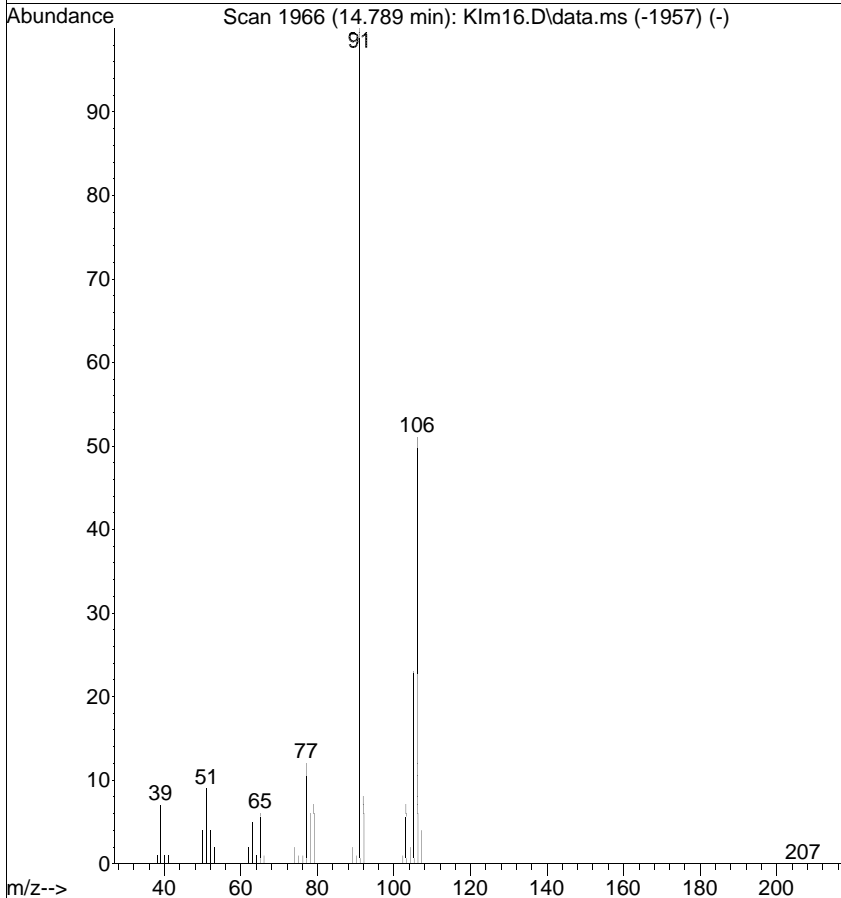


#63
 m,p-Xylenes
 Concen: 0.0448 ug/L
 RT: 15.804 min Scan# 1173
 Delta R.T. -0.013 min
 Lab File: JAQ06.D
 Acq: 26 Jan 2019 11:32 am

Tgt Ion	Resp	Lower	Upper
106	100		
91	159.2	203.7	243.7#



Ref



ENTHALPY SPIKE USER REPORT FOR 306574 MSVOA Water
EPA 8260B

Type : CCV/BS
 Inst : MSVOA10
 Seqnum : 499037978003.2
 File : jaq03
 IDF : 1.0
 Lab ID : QC962718
 Matrix : Water
 Batch : 267281
 Time : 26-JAN-2019 09:58
 Cal : 499010456001
 Caltype : WATER
 Units : ug/L

Type : BSD
 Inst : MSVOA10
 Seqnum : 499037978004.2
 File : jaq04
 IDF : 1.0
 Lab ID : QC962719
 Matrix : Water
 Batch : 267281
 Time : 26-JAN-2019 10:30
 Cal : 499010456001
 Caltype : WATER

CCV/BS:
 BSD:

Analyte	Spiked	CCV/BS		%Rec	BSD		%Rec	Limits	RPD	Lim	Flags
		Raw	Result		Raw	Result					
MTBE	12.50	12.13	12.13	97	11.99	11.99	96	66-124	1	20	u
Benzene	12.50	12.37	12.37	99	11.62	11.62	93	75-122	6	20	u
Toluene	12.50	11.92	11.92	95	11.44	11.44	91	78-120	4	20	u
Ethylbenzene	12.50	11.98	11.98	96	11.37	11.37	91	78-120	5	20	u
m,p-Xylenes	25.00	23.59	23.59	94	22.38	22.38	90	79-122	5	20	u
o-Xylene	12.50	12.07	12.07	97	11.93	11.93	95	80-120	1	20	u
Dibromofluoromethane	50.00	47.93	47.93	96	47.20	47.20	94	80-121			u
1,2-Dichloroethane-d4	50.00	44.34	44.34	89	44.56	44.56	89	80-134			u
Toluene-d8	50.00	46.62	46.62	93	46.11	46.11	92	80-120			u
Bromofluorobenzene	50.00	46.36	46.36	93	45.71	45.71	91	80-120			u

ISTD (ICAL ja719)	ICAL Area	CCV/BS Area	%Drift	ICAL RT	CCV/BS RT	Drift
Pentafluorobenzene	473385	510088	7.75	10.40	10.37	-0.03
1,4-Difluorobenzene	853668	996444	16.73	11.56	11.54	-0.02
Chlorobenzene-d5	705270	832071	17.98	15.61	15.58	-0.03
1,4-Dichlorobenzene-d4	345170	393291	13.94	18.30	18.28	-0.02

ISTD (ICAL ja719)	ICAL Area	BSD Area	%Drift	ICAL RT	BSD RT	Drift
Pentafluorobenzene	473385	521669	10.20	10.40	10.37	-0.03
1,4-Difluorobenzene	853668	1000226	17.17	11.56	11.53	-0.03
Chlorobenzene-d5	705270	843299	19.57	15.61	15.58	-0.03
1,4-Dichlorobenzene-d4	345170	403554	16.91	18.30	18.28	-0.02

TEW 01/28/19 : Integrations performed by another analyst, likely AHT. [general version]

TEW 01/28/19 [Freon 12]: Combined split peak. [general version]

TEW 01/28/19 [Bromomethane]: Combined split peak. [general version]

TEW 01/28/19 : Integrations performed by another analyst, likely AHT. [general version]

TEW 01/28/19 [Freon 12]: Combined split peak. [general version]

TEW 01/28/19 [Vinyl Chloride]: Combined split peak. [general version]

TEW 01/28/19 [Bromomethane]: Combined split peak. [general version]

TEW 01/28/19 [Chloroethane]: Combined split peak. [general version]

Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

u=use

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\012619\
 Data File : JAQ03.D
 Acq On : 26 Jan 2019 9:58 am
 Operator :
 Sample : ccv/bs,qc962718,267281,s39081,20000X,s39228,
 Misc : .005/100,s39033,.005/100,s36178,.005/100
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 26 13:57:17 2019
 Quant Method : G:\msvoa10\012619\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.371	168	510088	50.0000	ug/L	-0.03
32) 1,4-Difluorobenzene	11.535	114	996444	50.0000	ug/L	-0.03
49) Chlorobenzene-d5	15.578	117	832071	50.0000	ug/L	-0.02
67) 1,4-Dichlorobenzene-d4	18.279	152	393291	50.0000	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	10.421	113	365106	47.9289	ug/L	-0.03
36) 1,2-Dichloroethane-d4	10.993	65	412175	44.3384	ug/L	-0.03
40) Trifluorotoluene	12.294	146	126249	11.5425	ug/L	-0.03
50) Toluene-d8	13.645	98	1107126	46.6244	ug/L	-0.03
69) Bromofluorobenzene	16.958	95	447298	46.3583	ug/L	-0.01

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	4.327	85	109285m	10.9644	ug/L	
3) Chloromethane	4.810	50	116670	10.2935	ug/L	91
4) Vinyl Chloride	4.968	62	120752	11.6045	ug/L	97
5) Bromomethane	5.639	94	32273m	6.9593	ug/L	
6) Chloroethane	5.816	64	85293	11.5046	ug/L	99
7) Trichlorofluoromethane	6.181	101	139977	10.5127	ug/L	97
8) Ethanol	6.477	45	303670	1460.6173	ug/L	90
9) Freon 113	6.950	101	94296	12.1510	ug/L	84
10) 1,1-Dichloroethene	7.068	96	88596	12.0188	ug/L	# 86
11) Acetone	7.187	43	56650	8.8812	ug/L	88
12) Isopropanol	7.266	45	139291	134.5293	ug/L	91
13) Iodomethane	7.404	142	11488	6.5091	ug/L	89
14) Carbon Disulfide	7.483	76	307157	10.2730	ug/L	98
15) Methylene Chloride	7.877	84	127509	12.9529	ug/L	98
16) tert-Butyl Alcohol (TBA)	7.857	59	82436	63.8890	ug/L	87
17) MTBE	8.104	73	314718	12.1345	ug/L	94
18) trans-1,2-Dichloroethene	8.212	96	102413	11.9301	ug/L	94
19) n-Hexane	8.439	57	110090	15.4566	ug/L	99
20) Isopropyl Ether (DIPE)	8.735	45	559738	14.3511	ug/L	97
21) Vinyl Acetate	8.833	43	376272	15.1530	ug/L	100
22) 1,1-Dichloroethane	8.893	63	221950	12.8778	ug/L	97
23) ETBE	9.267	59	403772	13.1155	ug/L	93
24) 2,2-Dichloropropane	9.721	77	151001	12.7779	ug/L	95
25) cis-1,2-Dichloroethene	9.750	96	118264	12.7568	ug/L	98
26) 2-Butanone	9.721	43	95582	12.3492	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\012619\
 Data File : JAQ03.D
 Acq On : 26 Jan 2019 9:58 am
 Operator :
 Sample : ccv/bs,qc962718,267281,s39081,20000X,s39228,
 Misc : .005/100,s39033,.005/100,s36178,.005/100
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 26 13:57:17 2019
 Quant Method : G:\msvoa10\012619\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.125	128	54051	12.2362	ug/L	# 81
28) Tetrahydrofuran	10.115	42	571199	147.5793	ug/L	97
29) Chloroform	10.164	83	199672	11.4880	ug/L	98
31) 1,1,1-Trichloroethane	10.450	97	140856	11.4742	ug/L	97
33) Carbon Tetrachloride	10.648	117	110665	10.1290	ug/L	97
34) 1,1-Dichloropropene	10.677	75	154821	12.0711	ug/L	95
35) Benzene	11.003	78	441061	12.3741	ug/L	99
37) TAME	10.993	73	350156	12.1605	ug/L	98
38) 1,2-Dichloroethane	11.111	62	158020	11.0182	ug/L	98
39) Trichloroethene	11.939	95	109153	11.4607	ug/L	95
41) 1,2-Dichloropropane	12.353	63	144284	13.9609	ug/L	95
42) Dibromomethane	12.551	93	83940	12.3026	ug/L	89
43) 1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	12.708	83	148238	11.1064	ug/L	96
45) 2-Chloroethylvinylether	13.053	63	55840	11.3814	ug/L	98
46) Tetramethyl THF	13.251	43	330412	13.8307	ug/L	98
47) cis-1,3-Dichloropropene	13.320	75	209730	12.9086	ug/L	98
48) 4-Methyl-2-Pentanone	13.458	43	185757	12.1713	ug/L	91
51) Toluene	13.744	91	410954	11.9182	ug/L	98
52) trans-1,3-Dichloropropene	14.079	75	174859	11.2695	ug/L	97
53) 1,1,2-Trichloroethane	14.345	85	60764	12.3048	ug/L	96
54) Tetrachloroethene	14.454	166	81930	11.3425	ug/L	93
55) 2-Hexanone	14.562	43	135641	11.7342	ug/L	93
56) 1,3-Dichloropropane	14.592	76	194101	12.5581	ug/L	98
57) Dibromochloromethane	14.868	129	100851	10.3255	ug/L	95
58) 1,2-Dibromoethane	15.065	107	112687	12.0611	ug/L	98
59) 1-Chlorohexane	15.459	91	164626	13.9022	ug/L	93
60) Chlorobenzene	15.617	112	253341	11.7281	ug/L	96
61) Ethylbenzene	15.656	91	464398	11.9772	ug/L	99
62) 1,1,1,2-Tetrachloroethane	15.696	131	87092	11.1082	ug/L	89
63) m,p-Xylenes	15.795	106	336987	23.5872	ug/L	91
64) o-Xylene	16.297	106	166781	12.0677	ug/L	99
65) Styrene	16.317	104	282782	11.8399	ug/L	98
66) Bromoform	16.633	173	63775	10.0497	ug/L	95
68) Isopropylbenzene	16.682	105	414884	11.5367	ug/L	99
70) 1,1,2,2-Tetrachloroethane	17.096	83	152121	12.5165	ug/L	97
71) Propylbenzene	17.155	91	567258	12.6571	ug/L	99
72) Bromobenzene	17.165	156	98825	11.5557	ug/L	93
73) 1,2,3-Trichloropropane	17.195	75	142173	13.5042	ug/L	# 69
74) 1,3,5-Trimethylbenzene	17.333	105	330283	11.6216	ug/L	100
75) 2-Chlorotoluene	17.333	91	360975	12.0972	ug/L	98
76) 4-Chlorotoluene	17.461	91	331470	12.1030	ug/L	97
77) tert-Butylbenzene	17.707	119	285603	11.7638	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\012619\
 Data File : JAQ03.D
 Acq On : 26 Jan 2019 9:58 am
 Operator :
 Sample : ccv/bs, qc962718, 267281, s39081, 20000X, s39228,
 Misc : .005/100, s39033, .005/100, s36178, .005/100
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 26 13:57:17 2019
 Quant Method : G:\msvoa10\012619\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

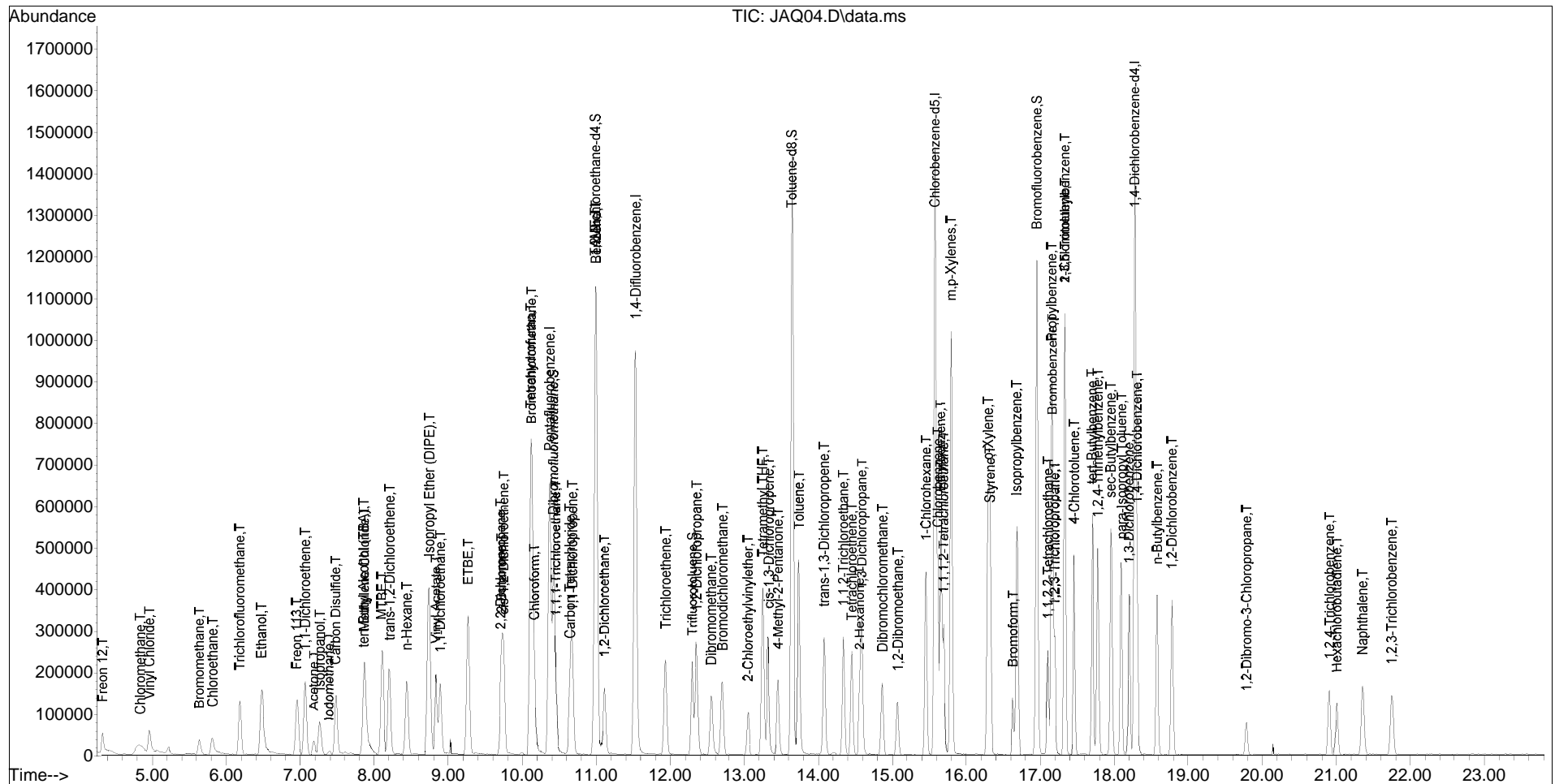
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.776	105	312438	11.4817	ug/L	97
79) sec-Butylbenzene	17.954	105	465126	12.1802	ug/L	98
80) para-Isopropyl Toluene	18.092	119	312124	11.2133	ug/L	100
81) 1,3-Dichlorobenzene	18.200	146	174216	11.5043	ug/L	94
82) 1,4-Dichlorobenzene	18.309	146	179000	11.7269	ug/L	96
83) n-Butylbenzene	18.575	91	300378	11.9166	ug/L	98
84) 1,2-Dichlorobenzene	18.782	146	173832	11.8324	ug/L	97
85) 1,2-Dibromo-3-Chloropropane	19.778	75	27545	10.5150	ug/L	88
86) 1,2,4-Trichlorobenzene	20.912	180	68376	10.9076	ug/L	88
87) Hexachlorobutadiene	21.010	225	29296	10.7988	ug/L	97
88) Naphthalene	21.356	128	187414	10.2616	ug/L	99
89) 1,2,3-Trichlorobenzene	21.760	180	67300	10.8733	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\012619\
 Data File : JAQ04.D
 Acq On : 26 Jan 2019 10:30 am
 Operator :
 Sample : bsd,gc962719,267281,s39081,20000X,s39228,
 Misc : .005/100,s39033,.005/100,s36178,.005/100
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 26 13:57:54 2019
 Quant Method : G:\msvoa10\012619\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\012619\
 Data File : JAQ04.D
 Acq On : 26 Jan 2019 10:30 am
 Operator :
 Sample : bsd,qc962719,267281,s39081,20000X,s39228,
 Misc : .005/100,s39033,.005/100,s36178,.005/100
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 26 13:57:54 2019
 Quant Method : G:\msvoa10\012619\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.371	168	521669	50.0000	ug/L	-0.03
32) 1,4-Difluorobenzene	11.534	114	1000226	50.0000	ug/L	-0.03
49) Chlorobenzene-d5	15.577	117	843299	50.0000	ug/L	-0.02
67) 1,4-Dichlorobenzene-d4	18.279	152	403554	50.0000	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	10.420	113	367723	47.2008	ug/L	-0.03
36) 1,2-Dichloroethane-d4	10.992	65	415829	44.5623	ug/L	-0.03
40) Trifluorotoluene	12.303	146	118517	10.7946	ug/L	-0.02
50) Toluene-d8	13.644	98	1109625	46.1075	ug/L	-0.03
69) Bromofluorobenzene	16.957	95	452542	45.7090	ug/L	-0.01

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	4.327	85	102568m	10.0621	ug/L	
3) Chloromethane	4.839	50	111460	9.6155	ug/L	89
4) Vinyl Chloride	4.958	62	111849m	10.5103	ug/L	
5) Bromomethane	5.638	94	37616m	7.8438	ug/L	
6) Chloroethane	5.816	64	82171m	10.8374	ug/L	
7) Trichlorofluoromethane	6.180	101	133153	9.7782	ug/L	96
8) Ethanol	6.476	45	312120	1467.9330	ug/L	94
9) Freon 113	6.949	101	88843	11.1941	ug/L	84
10) 1,1-Dichloroethene	7.068	96	83335	11.0542	ug/L	# 80
11) Acetone	7.186	43	56020	8.5874	ug/L	88
12) Isopropanol	7.265	45	145966	137.8465	ug/L	97
13) Iodomethane	7.393	142	13582	6.8567	ug/L	94
14) Carbon Disulfide	7.482	76	285908	9.3501	ug/L	99
15) Methylene Chloride	7.866	84	128654	12.7791	ug/L	99
16) tert-Butyl Alcohol (TBA)	7.857	59	84101	63.7324	ug/L	84
17) MTBE	8.103	73	317899	11.9850	ug/L	95
18) trans-1,2-Dichloroethene	8.212	96	97708	11.1294	ug/L	90
19) n-Hexane	8.438	57	104107	14.2921	ug/L	89
20) Isopropyl Ether (DIPE)	8.744	45	539658	13.5291	ug/L	96
21) Vinyl Acetate	8.833	43	368441	14.5082	ug/L	99
22) 1,1-Dichloroethane	8.892	63	206501	11.7155	ug/L	98
23) ETBE	9.267	59	396703	12.5998	ug/L	96
24) 2,2-Dichloropropane	9.710	77	139822	11.5692	ug/L	100
25) cis-1,2-Dichloroethene	9.750	96	114734	12.1013	ug/L	95
26) 2-Butanone	9.720	43	97383	12.3025	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\012619\
 Data File : JAQ04.D
 Acq On : 26 Jan 2019 10:30 am
 Operator :
 Sample : bsd,qc962719,267281,s39081,20000X,s39228,
 Misc : .005/100,s39033,.005/100,s36178,.005/100
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 26 13:57:54 2019
 Quant Method : G:\msvoa10\012619\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.124	128	54563	12.0779	ug/L	# 83
28) Tetrahydrofuran	10.115	42	573977	145.0049	ug/L	99
29) Chloroform	10.164	83	194091	10.9190	ug/L	100
31) 1,1,1-Trichloroethane	10.450	97	132246	10.5337	ug/L	97
33) Carbon Tetrachloride	10.647	117	105493	9.6191	ug/L	99
34) 1,1-Dichloropropene	10.677	75	144453	11.2201	ug/L	94
35) Benzene	11.002	78	415730	11.6193	ug/L	97
37) TAME	10.992	73	340408	11.7772	ug/L	98
38) 1,2-Dichloroethane	11.110	62	152549	10.5965	ug/L	98
39) Trichloroethene	11.939	95	102847	10.7578	ug/L	96
41) 1,2-Dichloropropane	12.353	63	135964	13.1061	ug/L	93
42) Dibromomethane	12.550	93	80395	11.7385	ug/L	# 87
43) _1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	12.708	83	145645	10.8709	ug/L	92
45) 2-Chloroethylvinylether	13.053	63	54261	11.0178	ug/L	92
46) Tetramethyl THF	13.250	43	328810	13.7116	ug/L	97
47) cis-1,3-Dichloropropene	13.329	75	203660	12.4876	ug/L	97
48) 4-Methyl-2-Pentanone	13.457	43	187423	12.2340	ug/L	93
51) Toluene	13.743	91	399673	11.4367	ug/L	98
52) trans-1,3-Dichloropropene	14.078	75	172577	10.9743	ug/L	98
53) 1,1,2-Trichloroethane	14.344	85	62364	12.4606	ug/L	99
54) Tetrachloroethene	14.453	166	80656	11.0175	ug/L	95
55) 2-Hexanone	14.561	43	134445	11.4759	ug/L	100
56) 1,3-Dichloropropane	14.591	76	196396	12.5374	ug/L	97
57) Dibromochloromethane	14.867	129	102003	10.3044	ug/L	97
58) 1,2-Dibromoethane	15.074	107	109775	11.5930	ug/L	100
59) 1-Chlorohexane	15.459	91	156622	13.0502	ug/L	88
60) Chlorobenzene	15.616	112	244437	11.1653	ug/L	96
61) Ethylbenzene	15.656	91	446934	11.3733	ug/L	99
62) 1,1,1,2-Tetrachloroethane	15.695	131	84854	10.6786	ug/L	92
63) m,p-Xylenes	15.794	106	324064	22.3806	ug/L	93
64) o-Xylene	16.297	106	167149	11.9333	ug/L	99
65) Styrene	16.326	104	283636	11.7175	ug/L	94
66) Bromoform	16.632	173	66086	10.2752	ug/L	94
68) Isopropylbenzene	16.681	105	397414	10.7699	ug/L	100
70) 1,1,2,2-Tetrachloroethane	17.105	83	154318	12.3744	ug/L	97
71) Propylbenzene	17.155	91	536124	11.6582	ug/L	99
72) Bromobenzene	17.164	156	99764	11.3688	ug/L	95
73) 1,2,3-Trichloropropane	17.194	75	139790	12.9402	ug/L	# 68
74) 1,3,5-Trimethylbenzene	17.332	105	314688	10.7912	ug/L	99
75) 2-Chlorotoluene	17.332	91	347355	11.3447	ug/L	97
76) 4-Chlorotoluene	17.460	91	323474	11.5107	ug/L	98
77) tert-Butylbenzene	17.707	119	274574	11.0219	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\012619\
 Data File : JAQ04.D
 Acq On : 26 Jan 2019 10:30 am
 Operator :
 Sample : bsd,qc962719,267281,s39081,20000X,s39228,
 Misc : .005/100,s39033,.005/100,s36178,.005/100
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 26 13:57:54 2019
 Quant Method : G:\msvoa10\012619\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.776	105	297210	10.6443	ug/L	99
79) sec-Butylbenzene	17.953	105	443802	11.3262	ug/L	97
80) para-Isopropyl Toluene	18.101	119	302194	10.5804	ug/L	98
81) 1,3-Dichlorobenzene	18.200	146	173792	11.1845	ug/L	96
82) 1,4-Dichlorobenzene	18.308	146	178666	11.4073	ug/L	98
83) n-Butylbenzene	18.584	91	277954	10.7466	ug/L	99
84) 1,2-Dichlorobenzene	18.781	146	166602	11.0518	ug/L	96
85) 1,2-Dibromo-3-Chloropropane	19.787	75	28206	10.4935	ug/L	98
86) 1,2,4-Trichlorobenzene	20.911	180	65754	10.2226	ug/L	95
87) Hexachlorobutadiene	21.010	225	29803	10.7063	ug/L	95
88) Naphthalene	21.355	128	190667	10.1743	ug/L	100
89) 1,2,3-Trichlorobenzene	21.749	180	68049	10.7148	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Initial Calibration Raw Data

ENTHALPY BFB TUNE FOR 306574 MSVOA Water
EPA 8260B

Inst : MSVOA10 Run Name : 50NG IDF : 1.0
Seqnum : 499010456008 File : ja708 Time : 07-JAN-2019 11:39

Standards: S37613

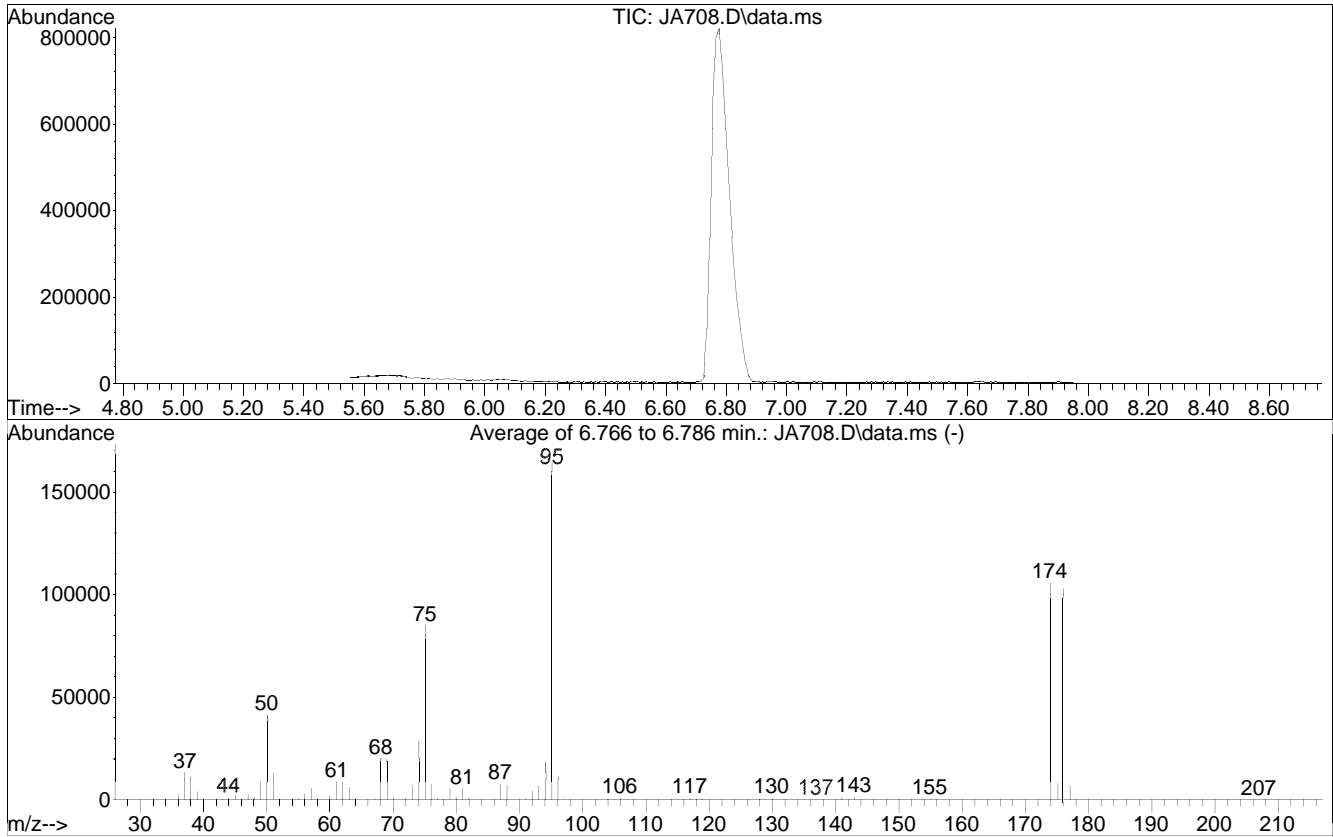
Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	41253	25.04	
75	30% - 60% of mass 95	84883	51.52	
95		164757	100.00	
96	5% - 9% of mass 95	11559	7.02	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	105451	64.00	
175	5% - 9% of mass 174	7934	7.52	
176	> 95% and < 101% of mass 174	103069	97.74	
177	5% - 9% of mass 176	6707	6.51	

Analyst: MCT Date: 01/08/19 Reviewer: LW Date: 01/08/19

Data Path : G:\msvoa\MSVOARM112.net\DATA\010719\
 Data File : JA708.D
 Acq On : 7 Jan 2019 11:39 am
 Operator :
 Sample : tun,s37613,
 Misc : 50ng
 ALS Vial : 8 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\BFB10.M
 Title : MSVOA10 MSVOA
 Last Update :



AutoFind: Scans 124, 125, 126; Background Corrected with Scan 116

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.0	41253	PASS
75	95	30	60	51.5	84883	PASS
95	95	100	100	100.0	164757	PASS
96	95	5	9	7.0	11559	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.0	105451	PASS
175	174	5	9	7.5	7934	PASS
176	174	95	101	97.7	103069	PASS
177	176	5	9	6.5	6707	PASS

ENTHALPY BFB TUNE FOR 306574 MSVOA Water
EPA 8260B

Inst : MSVOA10 Run Name : 50NG IDF : 1.0
Seqnum : 499037978002 File : jaq02 Time : 26-JAN-2019 09:25

Standards: S39414

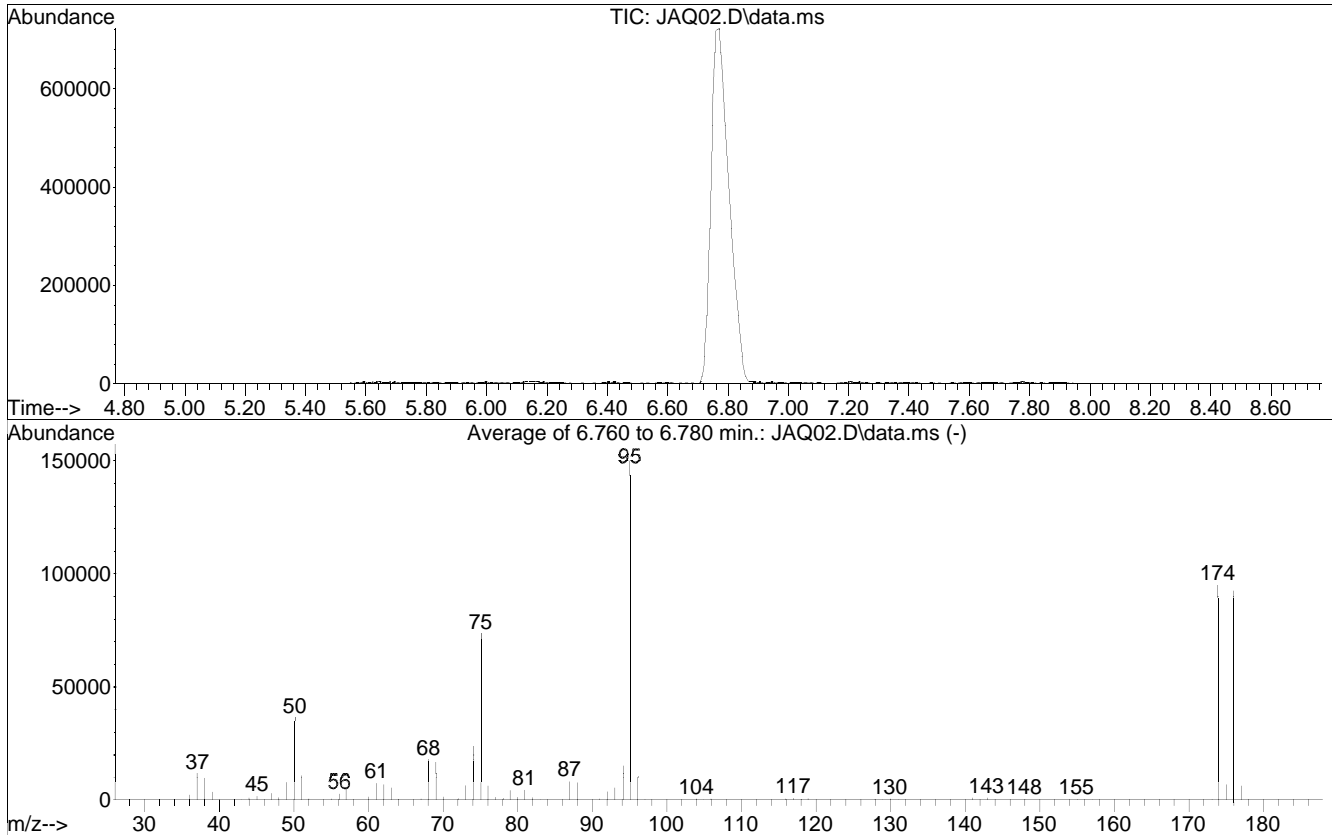
Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	36373	24.31	
75	30% - 60% of mass 95	73400	49.05	
95		149632	100.00	
96	5% - 9% of mass 95	10615	7.09	
173	< 2% of mass 174	289	0.30	
174	> 50% and < 100% of mass 95	94853	63.39	
175	5% - 9% of mass 174	6769	7.14	
176	> 95% and < 101% of mass 174	92565	97.59	
177	5% - 9% of mass 176	6231	6.73	

Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

Data Path : G:\msvoa\MSVOARM112.net\DATA\012619\
 Data File : JAQ02.D
 Acq On : 26 Jan 2019 9:25 am
 Operator :
 Sample : tun,s39414,
 Misc : 50ng
 ALS Vial : 10 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\BFB10.M
 Title : MSVOA10 MSVOA
 Last Update :



AutoFind: Scans 124, 125, 126; Background Corrected with Scan 116

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.3	36373	PASS
75	95	30	60	49.1	73400	PASS
95	95	100	100	100.0	149632	PASS
96	95	5	9	7.1	10615	PASS
173	174	0.00	2	0.3	289	PASS
174	95	50	100	63.4	94853	PASS
175	174	5	9	7.1	6769	PASS
176	174	95	101	97.6	92565	PASS
177	176	5	9	6.7	6231	PASS

ENTHALPY INITIAL CALIBRATION FOR 306574 MSVOA Water: EPA 8260B

Inst : MSVOA10
 Calnum : 499010456001
 Units : ug/L

Name : 8260XW10
 Date : 07-JAN-2019 14:23
 X Axis : R

Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds				
L1	ja713	499010456013		07-JAN-2019 14:23	S37791 (2000000X),	S39030 (2000000X),	S39361 (2000000X),	S37362 (1000000X),	S39315 (2500X)
L2	ja714	499010456014		07-JAN-2019 14:54	S37791 (1000000X),	S39030 (1000000X),	S39361 (1000000X),	S37362 (500000X),	S39315 (2500X)
L3	ja715	499010456015		07-JAN-2019 15:26	S37791 (500000X),	S39030 (250000X),	S39361 (250000X),	S37362 (250000X),	S39315 (2500X)
L4	ja716	499010456016		07-JAN-2019 15:58	S37791 (200000X),	S39030 (100000X),	S39361 (100000X),	S37362 (100000X),	S39315 (2500X)
L5	ja717	499010456017		07-JAN-2019 16:29	S37791 (100000X),	S39030 (50000X),	S39361 (50000X),	S37362 (50000X),	S39315 (2500X)
L6	ja718	499010456018		07-JAN-2019 17:00	S37791 (50000X),	S39030 (25000X),	S39361 (25000X),	S37362 (25000X),	S39315 (2500X)
L7	ja719	499010456019		07-JAN-2019 17:32	S37791 (20000X),	S39030 (10000X),	S39361 (10000X),	S37362 (10000X),	S39315 (2500X)
L8	ja720	499010456020		07-JAN-2019 18:03	S37791 (13330X),	S39030 (6667X),	S39361 (6667X),	S37362 (6667X),	S39315 (2500X)
L9	ja721	499010456021		07-JAN-2019 18:34	S37791 (10000X),	S39030 (5000X),	S39361 (5000X),	S37362 (5000X),	S39315 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
MTBE		2.6960	2.7167	2.6527	2.6506	2.4942	2.4601	2.3835	2.2846	AVRG		0.39335		2.5423	6	15	0.05	0.99	
Benzene		1.8500	1.7878	1.8502	1.8419	1.7700	1.7593	1.7391	1.7101	AVRG		0.55911		1.7886	3	15	0.05	0.99	
Toluene		2.2174	2.0541	2.1623	2.0565	2.0512	2.0468	2.0007	1.9870	AVRG		0.48262		2.0720	4	15	0.05	0.99	
Ethylbenzene		2.3885	2.3115	2.4448	2.3852	2.3274	2.3085	2.2543	2.2193	AVRG		0.42919		2.3299	3	15	0.05	0.99	
m,p-Xylenes	0.8784	0.8937	0.8323	0.8925	0.8517	0.8449	0.8509	0.8509	0.8314	AVRG		1.16480		0.8585	3	15	0.05	0.99	
o-Xylene		0.7744	0.8206	0.8555	0.8391	0.8410	0.8473	0.8348	0.8313	AVRG		1.20412		0.8305	3	15	0.05	0.99	
Dibromofluoromethane	0.7421	0.7517	0.7400	0.7664	0.7474	0.7508	0.7438	0.7409	0.7371	AVRG		1.33923		0.7467	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.4864	0.4918	0.4971	0.4820	0.4878	0.4695	0.4523	0.4282	0.4030	AVRG		2.14378		0.4665	7	15	0.05	0.99	
Toluene-d8	1.3905	1.4249	1.4193	1.4557	1.4342	1.4328	1.4547	1.4168	1.4132	AVRG		0.70082		1.4269	1	15	0.05	0.99	
Bromofluorobenzene	1.2660	1.2663	1.2501	1.2411	1.2359	1.2329	1.2086	1.1780	1.1611	AVRG		0.81522		1.2267	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
MTBE			0.5000	6	2.0000	7	5.0000	4	10.000	4	20.000	-2	50.000	-3	75.000	-6	100.00	-10
Benzene			0.5000	3	2.0000	0	5.0000	3	10.000	3	20.000	-1	50.000	-2	75.000	-3	100.00	-4
Toluene			0.5000	7	2.0000	-1	5.0000	4	10.000	-1	20.000	-1	50.000	-1	75.000	-3	100.00	-4
Ethylbenzene			0.5000	3	2.0000	-1	5.0000	5	10.000	2	20.000	0	50.000	-1	75.000	-3	100.00	-5
m,p-Xylenes	0.5000	2	1.0000	4	4.0000	-3	10.000	4	20.000	-1	40.000	-2	100.00	-1	150.00	-1	200.00	-3
o-Xylene			0.5000	-7	2.0000	-1	5.0000	3	10.000	1	20.000	1	50.000	2	75.000	1	100.00	0
Dibromofluoromethane	50.000	-1	50.000	1	50.000	-1	50.000	3	50.000	0	50.000	1	50.000	0	50.000	-1	50.000	-1
1,2-Dichloroethane-d4	50.000	4	50.000	5	50.000	7	50.000	3	50.000	5	50.000	1	50.000	-3	50.000	-8	50.000	-14
Toluene-d8	50.000	-3	50.000	0	50.000	-1	50.000	2	50.000	1	50.000	0	50.000	2	50.000	-1	50.000	-1
Bromofluorobenzene	50.000	3	50.000	3	50.000	2	50.000	1	50.000	1	50.000	1	50.000	-1	50.000	-4	50.000	-5

MCT 01/08/19 [Freon 12]: Combined split peak in multiple levels.

MCT 01/08/19 [Chloromethane]: Combined split peak in multiple levels.
MCT 01/08/19 [Vinyl Chloride]: Combined split peak in multiple levels.
MCT 01/08/19 [Chloroethane]: Combined split peak in multiple levels.
MCT 01/08/19 [Vinyl Acetate]: Corrected automatically drawn baseline in multiple levels.
MCT 01/08/19 [1,2-Dichloropropane]: Separated from coeluting peak in multiple levels.
MCT 01/08/19 [1,2,3-Trichloropropane]: Separated from coeluting peak in multiple levels.
MCT 01/08/19 [Bromomethane]: ICV failed high.
MCT 01/08/19 [Acetone]: ICV failed low (-31%)
MCT 01/09/19 [Iodomethane]: Combined split peak in (ja721).

Analyst: MCT

Date: 01/09/19

Reviewer: LW

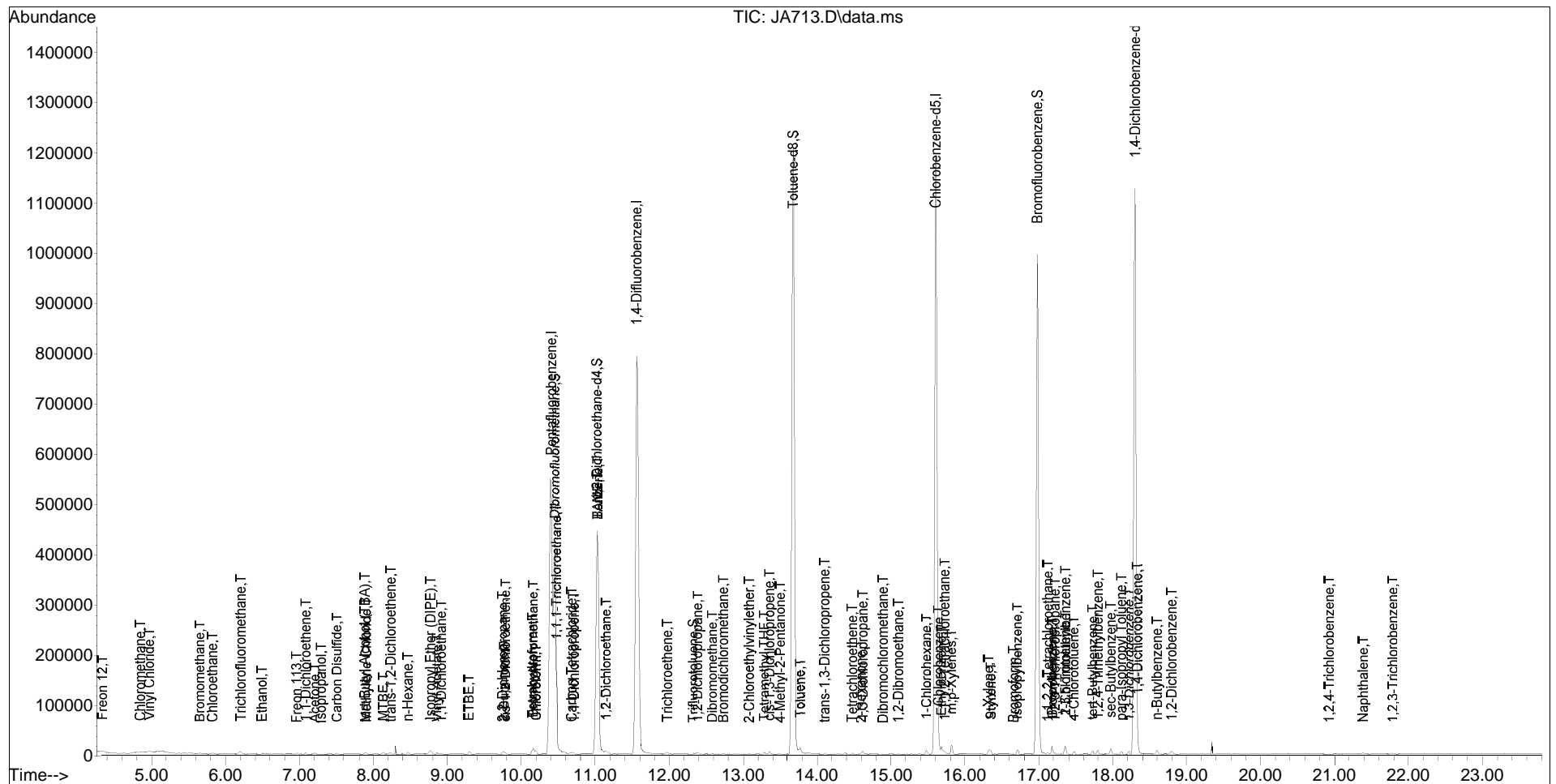
Date: 01/09/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA713.D
 Acq On : 7 Jan 2019 2:23 pm
 Operator :
 Sample : ical,s37791,.0005/1000,s39030,.0005/1000,
 Misc : s39361,.0005/1000,s37362,.001/1000,
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 08 07:07:52 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA713.D
 Acq On : 7 Jan 2019 2:23 pm
 Operator :
 Sample : ical,s37791,.0005/1000,s39030,.0005/1000,
 Misc : s39361,.0005/1000,s37362,.001/1000,
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 08 07:07:52 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.406	168	450321	50.0000	ug/L	-0.02
32) 1,4-Difluorobenzene	11.560	114	823502	50.0000	ug/L	-0.03
49) Chlorobenzene-d5	15.602	117	687194	50.0000	ug/L	-0.02
67) 1,4-Dichlorobenzene-d4	18.304	152	315922	50.0000	ug/L	0.00

System Monitoring Compounds

30) Dibromofluoromethane	10.455	113	334202	56.1546	ug/L	-0.02
36) 1,2-Dichloroethane-d4	11.027	65	400569	58.0865	ug/L	-0.02
40) Trifluorotoluene	12.329	146	2021	0.2218	ug/L	-0.02
50) Toluene-d8	13.679	98	955546	51.0270	ug/L	-0.02
69) Bromofluorobenzene	16.983	95	399948	55.1215	ug/L	0.00

Target Compounds

						Qvalue
2) Freon 12	4.332	85	2764	0.4133	ug/L	# 40
3) Chloromethane	4.845	50	4310m	0.4807	ug/L	
4) Vinyl Chloride	4.963	62	3449	0.4424	ug/L	97
5) Bromomethane	5.653	94	945	0.1507	ug/L	90
6) Chloroethane	5.821	64	2219	0.3981	ug/L	77
7) Trichlorofluoromethane	6.206	101	5870	0.5584	ug/L	98
8) Ethanol	6.491	45	4294	26.5816	ug/L	91
9) Freon 113	6.965	101	1267	0.2165	ug/L	# 21
10) 1,1-Dichloroethene	7.083	96	1234	0.2248	ug/L	# 76
11) Acetone	7.211	43	3503	0.8469	ug/L	# 54
12) Isopropanol	7.290	45	2296	2.9618	ug/L	# 55
13) Iodomethane	0.000	142	0	N.D.		
14) Carbon Disulfide	7.507	76	6403	0.2902	ug/L	75
15) Methylene Chloride	7.901	84	1422	0.1949	ug/L	93
16) tert-Butyl Alcohol (TBA)	7.882	59	2439	2.4412	ug/L	61
17) MTBE	8.138	73	5394	0.2737	ug/L	86
18) trans-1,2-Dichloroethene	8.237	96	1627	0.2593	ug/L	# 64
19) n-Hexane	8.463	57	2033	0.3147	ug/L	84
20) Isopropyl Ether (DIPE)	8.769	45	8715	0.2953	ug/L	90
21) Vinyl Acetate	8.858	43	6990	0.3695	ug/L	81
22) 1,1-Dichloroethane	8.917	63	3984	0.3094	ug/L	78
23) ETBE	9.292	59	6692	0.2806	ug/L	95
24) 2,2-Dichloropropane	9.745	77	2822	0.3000	ug/L	57
25) cis-1,2-Dichloroethene	9.785	96	1522	0.2134	ug/L	95
26) 2-Butanone	9.765	43	2615	0.4586	ug/L	64

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA713.D
 Acq On : 7 Jan 2019 2:23 pm
 Operator :
 Sample : ical,s37791,.0005/1000,s39030,.0005/1000,
 Misc : s39361,.0005/1000,s37362,.001/1000,
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 08 07:07:52 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.159	128	584	0.1708	ug/L	# 84
28) Tetrahydrofuran	10.150	42	9375	3.0765	ug/L	91
29) Chloroform	10.199	83	6511	0.5160	ug/L	96
31) 1,1,1-Trichloroethane	10.475	97	2574	0.2669	ug/L	# 1
33) Carbon Tetrachloride	10.682	117	2315	0.2700	ug/L	# 70
34) 1,1-Dichloropropene	10.712	75	3304	0.3398	ug/L	# 45
35) Benzene	11.037	78	7587	0.2794	ug/L	96
37) TAME	11.037	73	5356	0.2410	ug/L	75
38) 1,2-Dichloroethane	11.145	62	3734	0.3553	ug/L	93
39) Trichloroethene	11.974	95	2086	0.2865	ug/L	# 77
41) 1,2-Dichloropropane	12.388	63	2189	0.2662	ug/L	85
42) Dibromomethane	12.585	93	902	0.1685	ug/L	94
43) _1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	12.733	83	2282	0.2240	ug/L	74
45) 2-Chloroethylvinylether	13.078	63	1350	0.3420	ug/L	# 48
46) Tetramethyl THF	13.285	43	5152	0.2582	ug/L	96
47) cis-1,3-Dichloropropene	13.354	75	3249	0.2600	ug/L	75
48) 4-Methyl-2-Pentanone	13.502	43	3249	0.2808	ug/L	# 52
51) Toluene	13.768	91	7561	0.2784	ug/L	92
52) trans-1,3-Dichloropropene	14.103	75	2699	0.2372	ug/L	# 67
53) 1,1,2-Trichloroethane	0.000	85	0	N.D.		
54) Tetrachloroethene	14.478	166	945	0.1647	ug/L	83
55) 2-Hexanone	14.596	43	1751	0.2083	ug/L	# 38
56) 1,3-Dichloropropane	14.616	76	2695	0.2421	ug/L	95
57) Dibromochloromethane	14.892	129	1294	0.1748	ug/L	89
58) 1,2-Dibromoethane	15.099	107	1731	0.2446	ug/L	83
59) 1-Chlorohexane	15.484	91	2905	0.3100	ug/L	98
60) Chlorobenzene	15.642	112	4392	0.2542	ug/L	97
61) Ethylbenzene	15.681	91	8772	0.2874	ug/L	95
62) 1,1,1,2-Tetrachloroethane	15.720	131	1510	0.2488	ug/L	# 80
63) m,p-Xylenes	15.819	106	6036	0.5482	ug/L	98
64) o-Xylene	16.322	106	2573	0.2392	ug/L	# 78
65) Styrene	16.351	104	4527	0.2410	ug/L	86
66) Bromoform	16.657	173	1143	0.2271	ug/L	# 32
68) Isopropylbenzene	16.706	105	8332	0.3053	ug/L	96
70) 1,1,2,2-Tetrachloroethane	17.121	83	2287	0.2498	ug/L	94
71) Propylbenzene	17.180	91	10513	0.3091	ug/L	98
72) Bromobenzene	17.190	156	1439	0.2146	ug/L	92
73) 1,2,3-Trichloropropane	17.219	75	2303	0.2714	ug/L	# 49
74) 1,3,5-Trimethylbenzene	17.357	105	5989	0.2962	ug/L	98
75) 2-Chlorotoluene	17.357	91	6700	0.3001	ug/L	96
76) 4-Chlorotoluene	17.475	91	6960	0.3356	ug/L	88
77) tert-Butylbenzene	17.732	119	5056	0.2711	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA713.D
 Acq On : 7 Jan 2019 2:23 pm
 Operator :
 Sample : ical,s37791,.0005/1000,s39030,.0005/1000,
 Misc : s39361,.0005/1000,s37362,.001/1000,
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 08 07:07:52 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

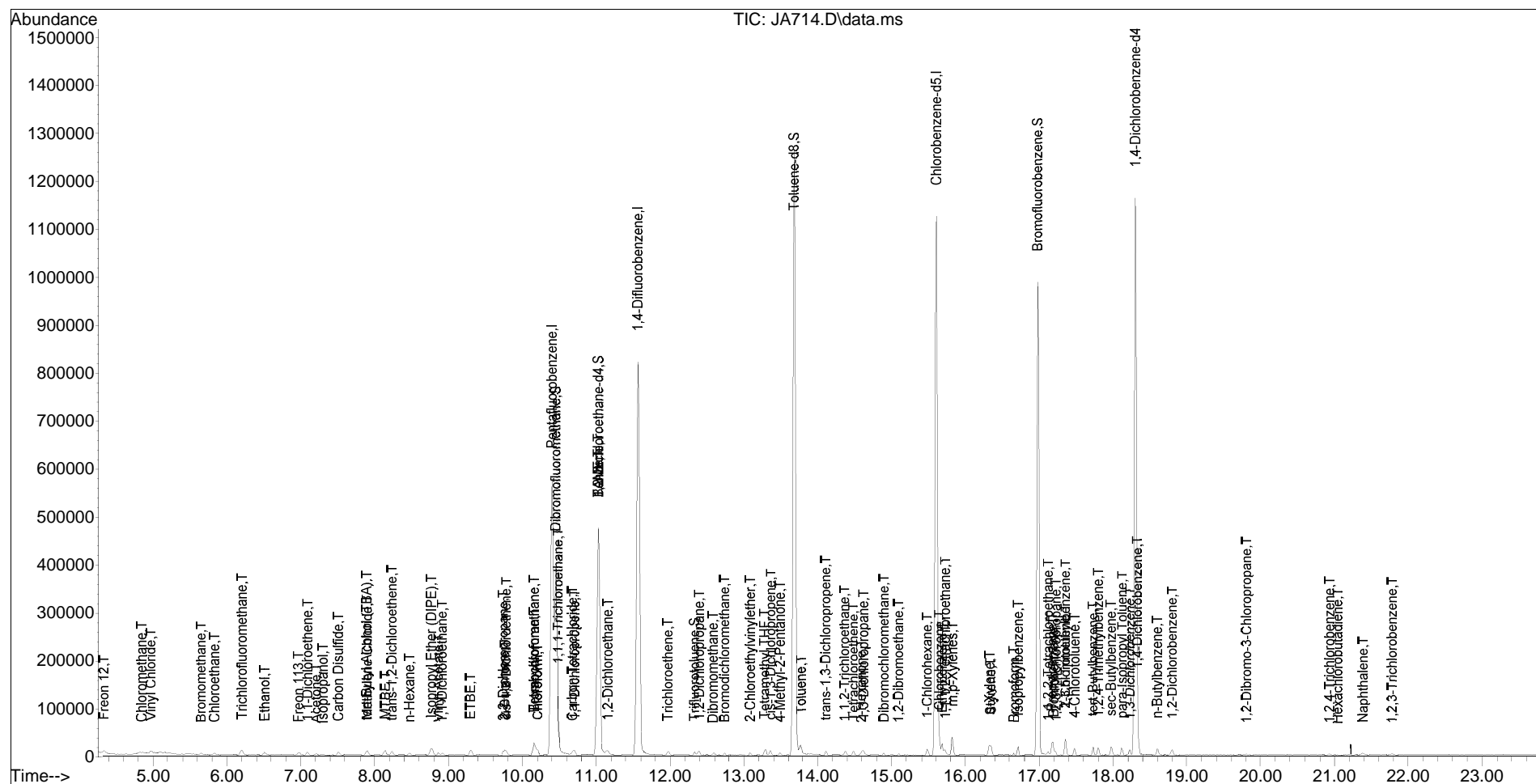
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.801	105	5921	0.3123	ug/L	93
79) sec-Butylbenzene	17.978	105	8590	0.2981	ug/L	91
80) para-Isopropyl Toluene	18.116	119	6001	0.2917	ug/L	89
81) 1,3-Dichlorobenzene	18.225	146	3330	0.2786	ug/L	98
82) 1,4-Dichlorobenzene	18.333	146	3753	0.3113	ug/L	94
83) n-Butylbenzene	18.600	91	5874	0.3234	ug/L	96
84) 1,2-Dichlorobenzene	18.797	146	3155	0.2703	ug/L	93
85) 1,2-Dibromo-3-Chloropropane	0.000	75	0	N.D.		
86) 1,2,4-Trichlorobenzene	20.927	180	1267	0.2724	ug/L	# 72
87) Hexachlorobutadiene	0.000	225	0	N.D.		
88) Naphthalene	21.390	128	3585	0.2892	ug/L	69
89) 1,2,3-Trichlorobenzene	21.784	180	867	0.4663	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA714.D
 Acq On : 7 Jan 2019 2:54 pm
 Operator :
 Sample : ical,s37791,.001/1000,s39030,.001/1000,
 Misc : s39361,.001/1000,s37362,.002/1000,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 08 07:10:19 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA714.D
 Acq On : 7 Jan 2019 2:54 pm
 Operator :
 Sample : ical,s37791,.001/1000,s39030,.001/1000,
 Misc : s39361,.001/1000,s37362,.002/1000,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 08 07:10:19 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.402	168	442960	50.0000	ug/L	-0.02
32) 1,4-Difluorobenzene	11.565	114	820004	50.0000	ug/L	-0.02
49) Chlorobenzene-d5	15.608	117	678216	50.0000	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4	18.299	152	316161	50.0000	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	10.451	113	332980	56.8790	ug/L	-0.02
36) 1,2-Dichloroethane-d4	11.033	65	403303	58.7325	ug/L	-0.01
40) Trifluorotoluene	12.334	146	4495	0.4954	ug/L	-0.01
50) Toluene-d8	13.675	98	966399	52.2897	ug/L	-0.02
69) Bromofluorobenzene	16.978	95	400366	55.1374	ug/L	-0.01

Target Compounds

						Qvalue
2) Freon 12	4.328	85	8179m	1.2434	ug/L	
3) Chloromethane	4.840	50	10190	1.1553	ug/L	98
4) Vinyl Chloride	4.969	62	9210m	1.2010	ug/L	
5) Bromomethane	5.649	94	2217	0.3595	ug/L	92
6) Chloroethane	5.826	64	5178	0.9443	ug/L	85
7) Trichlorofluoromethane	6.201	101	12504	1.2093	ug/L	94
8) Ethanol	6.507	45	9393	59.1128	ug/L	89
9) Freon 113	6.970	101	3129	0.5436	ug/L	# 68
10) 1,1-Dichloroethene	7.089	96	3401	0.6300	ug/L	# 72
11) Acetone	7.207	43	4630	1.1380	ug/L	# 54
12) Isopropanol	7.296	45	4805	6.3013	ug/L	90
13) Iodomethane	0.000	142	0	N.D.		
14) Carbon Disulfide	7.503	76	13477	0.6210	ug/L	93
15) Methylene Chloride	7.897	84	3735	0.5206	ug/L	95
16) tert-Butyl Alcohol (TBA)	7.887	59	5336	5.4295	ug/L	62
17) MTBE	8.144	73	11942	0.6161	ug/L	93
18) trans-1,2-Dichloroethene	8.232	96	4080	0.6609	ug/L	# 80
19) n-Hexane	8.469	57	2312	0.3638	ug/L	# 76
20) Isopropyl Ether (DIPE)	8.765	45	18763	0.6463	ug/L	95
21) Vinyl Acetate	8.863	43	12411	0.6669	ug/L	81
22) 1,1-Dichloroethane	8.913	63	7990	0.6308	ug/L	93
23) ETBE	9.297	59	14234	0.6067	ug/L	88
24) 2,2-Dichloropropane	9.741	77	5649	0.6104	ug/L	98
25) cis-1,2-Dichloroethene	9.780	96	4071	0.5804	ug/L	94
26) 2-Butanone	9.761	43	3917	0.6983	ug/L	64

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA714.D
 Acq On : 7 Jan 2019 2:54 pm
 Operator :
 Sample : ical,s37791,.001/1000,s39030,.001/1000,
 Misc : s39361,.001/1000,s37362,.002/1000,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 08 07:10:19 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.155	128	1552	0.4614	ug/L	# 85
28) Tetrahydrofuran	10.155	42	18609	6.2081	ug/L	90
29) Chloroform	10.204	83	10144	0.8173	ug/L	99
31) 1,1,1-Trichloroethane	10.480	97	5369	0.5660	ug/L	# 10
33) Carbon Tetrachloride	10.678	117	4442	0.5203	ug/L	91
34) 1,1-Dichloropropene	10.707	75	5100	0.5267	ug/L	93
35) Benzene	11.033	78	15170	0.5610	ug/L	98
37) TAME	11.033	73	12285	0.5552	ug/L	89
38) 1,2-Dichloroethane	11.151	62	6973	0.6663	ug/L	95
39) Trichloroethene	11.969	95	4011	0.5533	ug/L	# 74
41) 1,2-Dichloropropane	12.393	63	4312	0.5266	ug/L	85
42) Dibromomethane	12.581	93	2606	0.4890	ug/L	88
43) _1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	12.738	83	5535	0.5457	ug/L	96
45) 2-Chloroethylvinylether	13.083	63	3226	0.8207	ug/L	92
46) Tetramethyl THF	13.281	43	11212	0.5643	ug/L	91
47) cis-1,3-Dichloropropene	13.360	75	6744	0.5419	ug/L	96
48) 4-Methyl-2-Pentanone	13.488	43	6069	0.5268	ug/L	91
51) Toluene	13.774	91	15039	0.5610	ug/L	94
52) trans-1,3-Dichloropropene	14.109	75	6485	0.5774	ug/L	89
53) 1,1,2-Trichloroethane	14.365	85	2052	0.5808	ug/L	# 76
54) Tetrachloroethene	14.484	166	2724	0.4811	ug/L	83
55) 2-Hexanone	14.592	43	5686	0.6852	ug/L	87
56) 1,3-Dichloropropane	14.622	76	6475	0.5893	ug/L	92
57) Dibromochloromethane	14.898	129	3716	0.5086	ug/L	99
58) 1,2-Dibromoethane	15.095	107	3439	0.4925	ug/L	85
59) 1-Chlorohexane	15.479	91	4150	0.4487	ug/L	83
60) Chlorobenzene	15.647	112	9085	0.5327	ug/L	90
61) Ethylbenzene	15.686	91	16199	0.5377	ug/L	97
62) 1,1,1,2-Tetrachloroethane	15.726	131	2696	0.4502	ug/L	88
63) m,p-Xylenes	15.825	106	12123	1.1157	ug/L	99
64) o-Xylene	16.327	106	5252	0.4948	ug/L	91
65) Styrene	16.347	104	9009	0.4860	ug/L	93
66) Bromoform	16.663	173	2415	0.4861	ug/L	84
68) Isopropylbenzene	16.712	105	14957	0.5477	ug/L	98
70) 1,1,2,2-Tetrachloroethane	17.126	83	5081	0.5546	ug/L	93
71) Propylbenzene	17.175	91	18825	0.5531	ug/L	92
72) Bromobenzene	17.195	156	3175	0.4731	ug/L	92
73) 1,2,3-Trichloropropane	17.225	75	4526m	0.5330	ug/L	
74) 1,3,5-Trimethylbenzene	17.353	105	11501	0.5683	ug/L	98
75) 2-Chlorotoluene	17.353	91	13246	0.5929	ug/L	84
76) 4-Chlorotoluene	17.481	91	11334	0.5460	ug/L	92
77) tert-Butylbenzene	17.727	119	9790	0.5246	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA714.D
 Acq On : 7 Jan 2019 2:54 pm
 Operator :
 Sample : ical,s37791,.001/1000,s39030,.001/1000,
 Misc : s39361,.001/1000,s37362,.002/1000,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 08 07:10:19 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

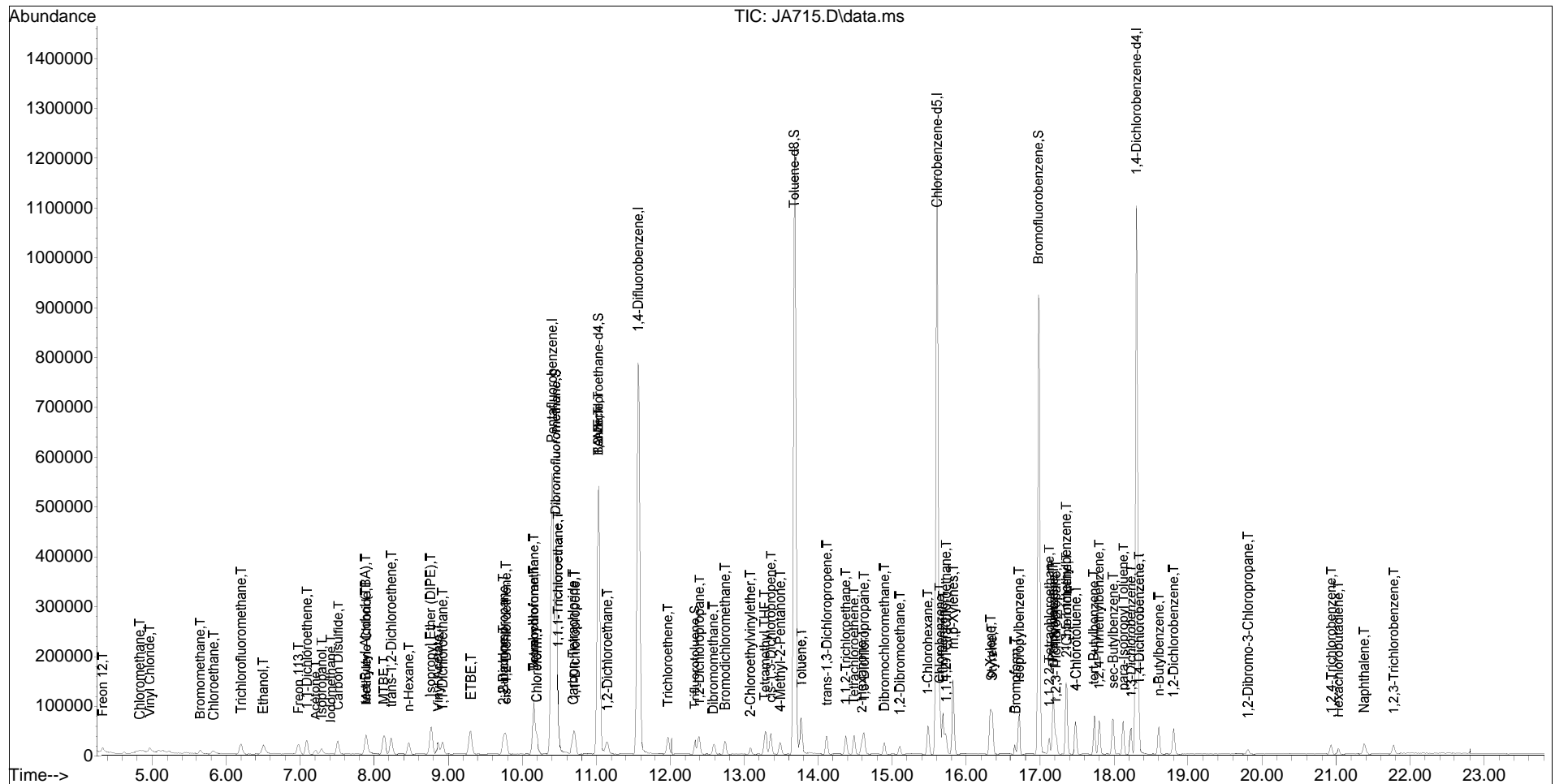
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.797	105	10976	0.5785	ug/L	99
79) sec-Butylbenzene	17.974	105	15319	0.5312	ug/L	91
80) para-Isopropyl Toluene	18.122	119	11061	0.5373	ug/L	96
81) 1,3-Dichlorobenzene	18.230	146	6136	0.5129	ug/L	97
82) 1,4-Dichlorobenzene	18.329	146	6407	0.5311	ug/L	90
83) n-Butylbenzene	18.595	91	9989	0.5495	ug/L	98
84) 1,2-Dichlorobenzene	18.802	146	5865	0.5021	ug/L	86
85) 1,2-Dibromo-3-Chloropropane	19.808	75	632	0.3396	ug/L	# 49
86) 1,2,4-Trichlorobenzene	20.932	180	2186	0.4697	ug/L	# 83
87) Hexachlorobutadiene	21.040	225	708	0.2943	ug/L	# 20
88) Naphthalene	21.386	128	6430	0.5183	ug/L	69
89) 1,2,3-Trichlorobenzene	21.780	180	1721	0.6482	ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA715.D
 Acq On : 7 Jan 2019 3:26 pm
 Operator :
 Sample : ical,s37791,.001/500,s39030,.002/500,
 Misc : s39361,.002/500,s37362,.002/500,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 08 07:15:11 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA715.D
 Acq On : 7 Jan 2019 3:26 pm
 Operator :
 Sample : ical,s37791,.001/500,s39030,.002/500,
 Misc : s39361,.002/500,s37362,.002/500,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 08 07:15:11 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.401	168	447246	50.0000	ug/L	-0.02
32) 1,4-Difluorobenzene	11.564	114	808541	50.0000	ug/L	-0.02
49) Chlorobenzene-d5	15.607	117	670554	50.0000	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4	18.299	152	314060	50.0000	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	10.450	113	330954	55.9912	ug/L	-0.02
36) 1,2-Dichloroethane-d4	11.032	65	401925	59.3616	ug/L	-0.01
40) Trifluorotoluene	12.333	146	17919	2.0028	ug/L	-0.01
50) Toluene-d8	13.674	98	951706	52.0831	ug/L	-0.02
69) Bromofluorobenzene	16.977	95	392598	54.4293	ug/L	-0.01

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	4.327	85	18101m	2.7254	ug/L	
3) Chloromethane	4.830	50	20556	2.3083	ug/L	79
4) Vinyl Chloride	4.968	62	19141m	2.4721	ug/L	
5) Bromomethane	5.648	94	6333	1.0170	ug/L	90
6) Chloroethane	5.826	64	13746m	2.4828	ug/L	
7) Trichlorofluoromethane	6.200	101	23883	2.2877	ug/L	96
8) Ethanol	6.496	45	36391	226.8242	ug/L	94
9) Freon 113	6.979	101	13776	2.3704	ug/L	90
10) 1,1-Dichloroethene	7.088	96	12971	2.3795	ug/L	92
11) Acetone	7.206	43	13874	3.3775	ug/L	99
12) Isopropanol	7.295	45	19103	24.8116	ug/L	98
13) Iodomethane	7.413	142	2198	1.6234	ug/L	# 31
14) Carbon Disulfide	7.512	76	52888	2.4138	ug/L	100
15) Methylene Chloride	7.896	84	18183	2.5099	ug/L	98
16) tert-Butyl Alcohol (TBA)	7.886	59	23671	23.8548	ug/L	88
17) MTBE	8.133	73	48602	2.4832	ug/L	96
18) trans-1,2-Dichloroethene	8.232	96	15390	2.4692	ug/L	93
19) n-Hexane	8.468	57	12979	2.0227	ug/L	98
20) Isopropyl Ether (DIPE)	8.764	45	72642	2.4782	ug/L	98
21) Vinyl Acetate	8.863	43	51547m	2.7434	ug/L	
22) 1,1-Dichloroethane	8.922	63	31321	2.4490	ug/L	97
23) ETBE	9.306	59	55671	2.3500	ug/L	90
24) 2,2-Dichloropropane	9.750	77	22566	2.4151	ug/L	96
25) cis-1,2-Dichloroethene	9.780	96	16268	2.2971	ug/L	# 83
26) 2-Butanone	9.750	43	14716	2.5985	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA715.D
 Acq On : 7 Jan 2019 3:26 pm
 Operator :
 Sample : ical,s37791,.001/500,s39030,.002/500,
 Misc : s39361,.002/500,s37362,.002/500,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 08 07:15:11 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.154	128	7518	2.2136	ug/L	# 87
28) Tetrahydrofuran	10.154	42	71419	23.5976	ug/L	96
29) Chloroform	10.194	83	32154	2.5659	ug/L	92
31) 1,1,1-Trichloroethane	10.480	97	21544	2.2494	ug/L	# 70
33) Carbon Tetrachloride	10.687	117	17685	2.1007	ug/L	98
34) 1,1-Dichloropropene	10.706	75	20327	2.1291	ug/L	97
35) Benzene	11.032	78	57821	2.1685	ug/L	99
37) TAME	11.032	73	47490	2.1766	ug/L	95
38) 1,2-Dichloroethane	11.150	62	25180	2.4402	ug/L	98
39) Trichloroethene	11.968	95	15601	2.1824	ug/L	# 86
41) 1,2-Dichloropropane	12.392	63	17073	2.1146	ug/L	89
42) Dibromomethane	12.580	93	11646	2.2162	ug/L	# 80
43) _1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	12.738	83	21610	2.1608	ug/L	84
45) 2-Chloroethylvinylether	13.083	63	7257	1.8724	ug/L	91
46) Tetramethyl THF	13.280	43	40304	2.0572	ug/L	98
47) cis-1,3-Dichloropropene	13.359	75	27050	2.2044	ug/L	95
48) 4-Methyl-2-Pentanone	13.487	43	26093	2.2971	ug/L	99
51) Toluene	13.773	91	55095	2.0789	ug/L	95
52) trans-1,3-Dichloropropene	14.118	75	25637	2.3087	ug/L	94
53) 1,1,2-Trichloroethane	14.374	85	7659	2.1926	ug/L	96
54) Tetrachloroethene	14.483	166	11505	2.0551	ug/L	90
55) 2-Hexanone	14.591	43	19832	2.4173	ug/L	93
56) 1,3-Dichloropropane	14.621	76	25050	2.3058	ug/L	100
57) Dibromochloromethane	14.897	129	15636	2.1647	ug/L	94
58) 1,2-Dibromoethane	15.104	107	15166	2.1966	ug/L	92
59) 1-Chlorohexane	15.479	91	19545	2.1374	ug/L	95
60) Chlorobenzene	15.646	112	34948	2.0727	ug/L	98
61) Ethylbenzene	15.686	91	62000	2.0815	ug/L	98
62) 1,1,1,2-Tetrachloroethane	15.725	131	12447	2.1022	ug/L	93
63) m,p-Xylenes	15.824	106	44650	4.1562	ug/L	94
64) o-Xylene	16.327	106	22009	2.0972	ug/L	94
65) Styrene	16.346	104	37127	2.0259	ug/L	98
66) Bromoform	16.662	173	9319	1.8972	ug/L	93
68) Isopropylbenzene	16.711	105	58795	2.1673	ug/L	96
70) 1,1,2,2-Tetrachloroethane	17.125	83	19532	2.1463	ug/L	92
71) Propylbenzene	17.175	91	71936	2.1279	ug/L	98
72) Bromobenzene	17.184	156	12974	1.9463	ug/L	# 77
73) 1,2,3-Trichloropropane	17.214	75	16289m	1.9312	ug/L	
74) 1,3,5-Trimethylbenzene	17.352	105	46036	2.2901	ug/L	99
75) 2-Chlorotoluene	17.362	91	49002	2.2082	ug/L	96
76) 4-Chlorotoluene	17.480	91	45060	2.1853	ug/L	92
77) tert-Butylbenzene	17.727	119	38796	2.0926	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA715.D
 Acq On : 7 Jan 2019 3:26 pm
 Operator :
 Sample : ical,s37791,.001/500,s39030,.002/500,
 Misc : s39361,.002/500,s37362,.002/500,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 08 07:15:11 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

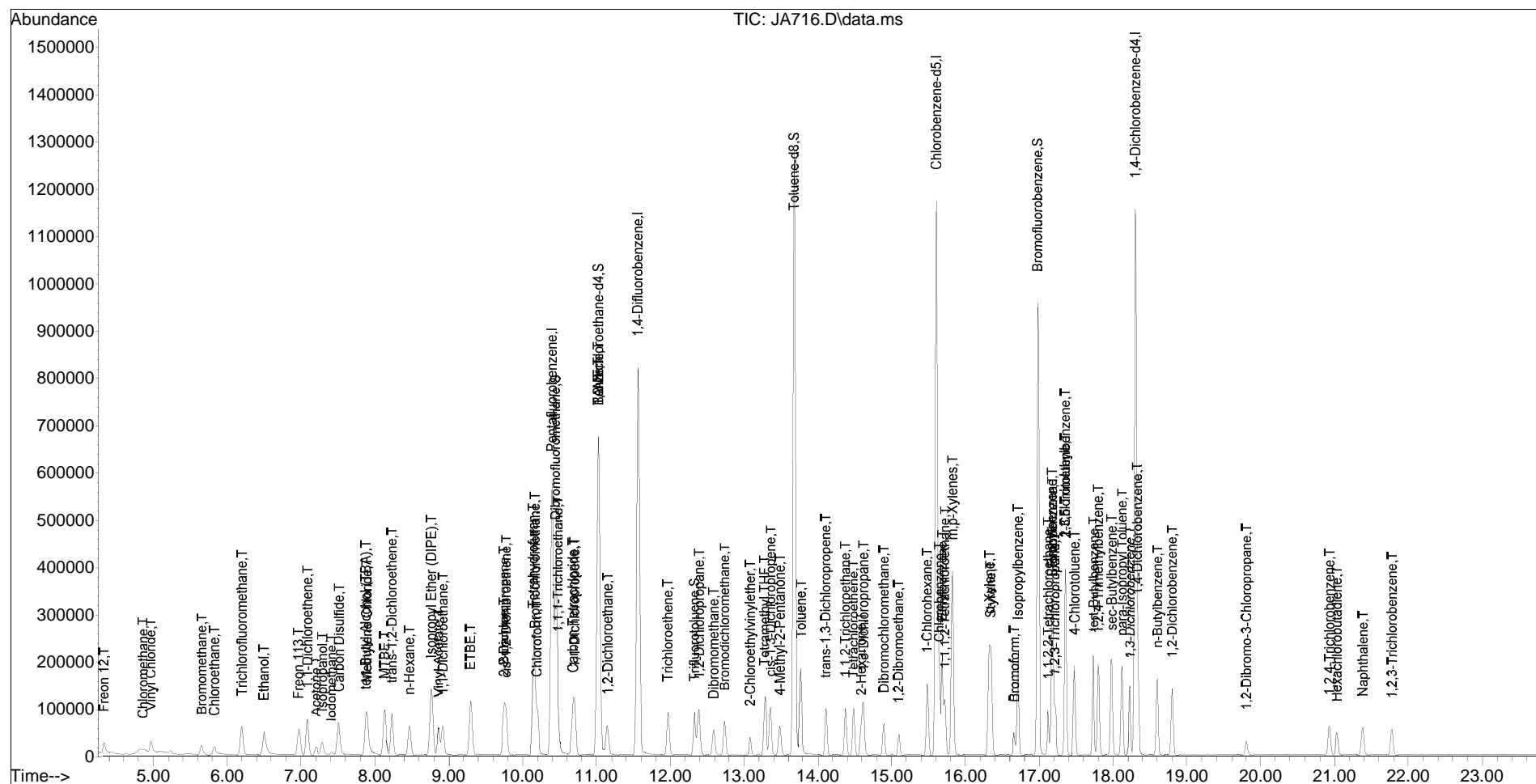
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.796	105	42569	2.2586	ug/L	100
79) sec-Butylbenzene	17.983	105	59960	2.0931	ug/L	99
80) para-Isopropyl Toluene	18.121	119	43223	2.1137	ug/L	98
81) 1,3-Dichlorobenzene	18.230	146	24031	2.0223	ug/L	96
82) 1,4-Dichlorobenzene	18.338	146	23282	1.9427	ug/L	96
83) n-Butylbenzene	18.604	91	37570	2.0806	ug/L	97
84) 1,2-Dichlorobenzene	18.801	146	22952	1.9779	ug/L	94
85) 1,2-Dibromo-3-Chloropropane	19.807	75	3791	2.0508	ug/L	# 88
86) 1,2,4-Trichlorobenzene	20.931	180	9163	1.9819	ug/L	97
87) Hexachlorobutadiene	21.030	225	3721	1.5573	ug/L	93
88) Naphthalene	21.375	128	25922	2.1033	ug/L	97
89) 1,2,3-Trichlorobenzene	21.779	180	8676	2.1387	ug/L	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA716.D
 Acq On : 7 Jan 2019 3:58 pm
 Operator :
 Sample : ical,s37791,.0025/500,s39030,.005/500,
 Misc : s39361,.005/500,s37362,.005/500,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 08 07:17:40 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA716.D
 Acq On : 7 Jan 2019 3:58 pm
 Operator :
 Sample : ical,s37791,.0025/500,s39030,.005/500,
 Misc : s39361,.005/500,s37362,.005/500,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 08 07:17:40 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.400	168	447542	50.0000	ug/L	-0.02
32) 1,4-Difluorobenzene	11.564	114	819839	50.0000	ug/L	-0.02
49) Chlorobenzene-d5	15.606	117	672262	50.0000	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4	18.298	152	318561	50.0000	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	10.449	113	343009	57.9923	ug/L	-0.02
36) 1,2-Dichloroethane-d4	11.031	65	395179	57.5609	ug/L	-0.01
40) Trifluorotoluene	12.333	146	47120	5.1940	ug/L	-0.01
50) Toluene-d8	13.674	98	978592	53.4184	ug/L	-0.02
69) Bromofluorobenzene	16.977	95	395363	54.0382	ug/L	-0.01

Target Compounds

						Qvalue
2) Freon 12	4.326	85	47798m	7.1920	ug/L	
3) Chloromethane	4.859	50	52329m	5.8722	ug/L	
4) Vinyl Chloride	4.967	62	51734m	6.6772	ug/L	
5) Bromomethane	5.657	94	19052	3.0575	ug/L	98
6) Chloroethane	5.825	64	33383	6.0256	ug/L	98
7) Trichlorofluoromethane	6.200	101	63248	6.0544	ug/L	95
8) Ethanol	6.495	45	98951	616.3513	ug/L	96
9) Freon 113	6.969	101	37714	6.4851	ug/L	85
10) 1,1-Dichloroethene	7.087	96	33407	6.1245	ug/L	93
11) Acetone	7.205	43	29575	7.1949	ug/L	98
12) Isopropanol	7.294	45	47207	61.2734	ug/L	98
13) Iodomethane	7.412	142	9420	2.7083	ug/L	95
14) Carbon Disulfide	7.511	76	137912	6.2900	ug/L	97
15) Methylene Chloride	7.896	84	45911	6.3332	ug/L	95
16) tert-Butyl Alcohol (TBA)	7.876	59	58988	59.4066	ug/L	94
17) MTBE	8.132	73	118719	6.0617	ug/L	96
18) trans-1,2-Dichloroethene	8.231	96	39716	6.3678	ug/L	92
19) n-Hexane	8.467	57	36072	5.6179	ug/L	93
20) Isopropyl Ether (DIPE)	8.763	45	179985	6.1363	ug/L	99
21) Vinyl Acetate	8.862	43	120789m	6.4242	ug/L	
22) 1,1-Dichloroethane	8.921	63	80413	6.2833	ug/L	99
23) ETBE	9.296	59	140953	5.9461	ug/L	92
24) 2,2-Dichloropropane	9.749	77	55910	5.9797	ug/L	93
25) cis-1,2-Dichloroethene	9.779	96	41861	5.9070	ug/L	100
26) 2-Butanone	9.749	43	35388	6.2445	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA716.D
 Acq On : 7 Jan 2019 3:58 pm
 Operator :
 Sample : ical,s37791,.0025/500,s39030,.005/500,
 Misc : s39361,.005/500,s37362,.005/500,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 08 07:17:40 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.163	128	20143	5.9270	ug/L	91
28) Tetrahydrofuran	10.144	42	183058	60.4444	ug/L	96
29) Chloroform	10.193	83	77526	6.1825	ug/L	100
31) 1,1,1-Trichloroethane	10.479	97	56284	5.8728	ug/L	99
33) Carbon Tetrachloride	10.686	117	46678	5.4682	ug/L	95
34) 1,1-Dichloropropene	10.706	75	55286	5.7109	ug/L	95
35) Benzene	11.031	78	151688	5.6106	ug/L	99
37) TAME	11.031	73	120786	5.4596	ug/L	96
38) 1,2-Dichloroethane	11.149	62	61670	5.8940	ug/L	98
39) Trichloroethene	11.968	95	39510	5.4509	ug/L	95
41) 1,2-Dichloropropane	12.392	63	43178m	5.2742	ug/L	
42) Dibromomethane	12.589	93	28963	5.4356	ug/L	91
43) _1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	12.737	83	56234	5.5453	ug/L	89
45) 2-Chloroethylvinylether	13.082	63	18877	4.8034	ug/L	97
46) Tetramethyl THF	13.279	43	102584	5.1639	ug/L	99
47) cis-1,3-Dichloropropene	13.358	75	68781	5.5280	ug/L	94
48) 4-Methyl-2-Pentanone	13.486	43	64765	5.6230	ug/L	93
51) Toluene	13.772	91	145363	5.4709	ug/L	98
52) trans-1,3-Dichloropropene	14.107	75	63541	5.7077	ug/L	99
53) 1,1,2-Trichloroethane	14.374	85	20770	5.9310	ug/L	90
54) Tetrachloroethene	14.482	166	30113	5.3654	ug/L	93
55) 2-Hexanone	14.591	43	48477	5.8938	ug/L	98
56) 1,3-Dichloropropane	14.620	76	64870	5.9561	ug/L	95
57) Dibromochloromethane	14.896	129	41618	5.7470	ug/L	98
58) 1,2-Dibromoethane	15.093	107	38756	5.5990	ug/L	99
59) 1-Chlorohexane	15.478	91	51338	5.5998	ug/L	95
60) Chlorobenzene	15.646	112	88668	5.2455	ug/L	98
61) Ethylbenzene	15.685	91	164356	5.5039	ug/L	99
62) 1,1,1,2-Tetrachloroethane	15.724	131	33010	5.5609	ug/L	94
63) m,p-Xylenes	15.823	106	119993	11.1409	ug/L	89
64) o-Xylene	16.326	106	57511	5.4663	ug/L	99
65) Styrene	16.346	104	98568	5.3649	ug/L	99
66) Bromoform	16.661	173	25209	5.1192	ug/L	95
68) Isopropylbenzene	16.710	105	155015	5.6335	ug/L	97
70) 1,1,2,2-Tetrachloroethane	17.125	83	52029	5.6364	ug/L	97
71) Propylbenzene	17.174	91	197083	5.7473	ug/L	98
72) Bromobenzene	17.184	156	36090	5.3375	ug/L	# 77
73) 1,2,3-Trichloropropane	17.213	75	44575m	5.2101	ug/L	
74) 1,3,5-Trimethylbenzene	17.351	105	123167	6.0405	ug/L	98
75) 2-Chlorotoluene	17.351	91	133071	5.9120	ug/L	95
76) 4-Chlorotoluene	17.480	91	119543	5.7157	ug/L	95
77) tert-Butylbenzene	17.736	119	105460	5.6080	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA716.D
 Acq On : 7 Jan 2019 3:58 pm
 Operator :
 Sample : ical,s37791,.0025/500,s39030,.005/500,
 Misc : s39361,.005/500,s37362,.005/500,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 08 07:17:40 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

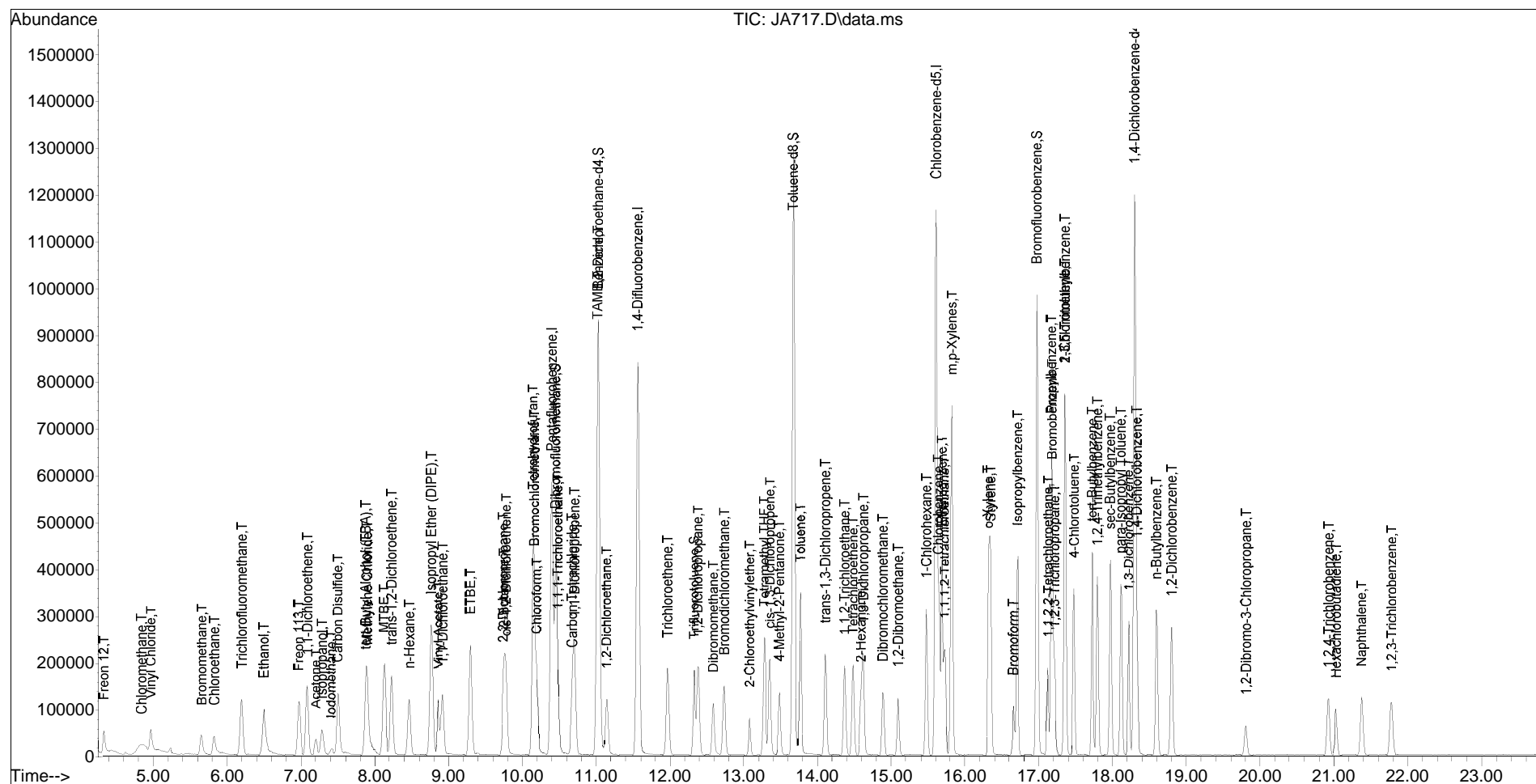
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.795	105	116676	6.1030	ug/L	99
79) sec-Butylbenzene	17.982	105	166718	5.7376	ug/L	99
80) para-Isopropyl Toluene	18.120	119	118130	5.6953	ug/L	98
81) 1,3-Dichlorobenzene	18.229	146	64263	5.3317	ug/L	95
82) 1,4-Dichlorobenzene	18.327	146	64605	5.3145	ug/L	97
83) n-Butylbenzene	18.604	91	108079	5.9008	ug/L	98
84) 1,2-Dichlorobenzene	18.801	146	61994	5.2668	ug/L	95
85) 1,2-Dibromo-3-Chloropropane	19.806	75	10979	5.8555	ug/L	92
86) 1,2,4-Trichlorobenzene	20.931	180	25932	5.5298	ug/L	92
87) Hexachlorobutadiene	21.029	225	11670	4.8152	ug/L	91
88) Naphthalene	21.384	128	70511	5.6404	ug/L	99
89) 1,2,3-Trichlorobenzene	21.778	180	25524	5.6312	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA717.D
 Acq On : 7 Jan 2019 4:29 pm
 Operator :
 Sample : ical,s37791,.001/100,s39030,.002/100,
 Misc : s39361,.002/100,s37362,.002/100,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 08 07:19:58 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA717.D
 Acq On : 7 Jan 2019 4:29 pm
 Operator :
 Sample : ical,s37791,.001/100,s39030,.002/100,
 Misc : s39361,.002/100,s37362,.002/100,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 08 07:19:58 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.401	168	457511	50.0000	ug/L	-0.02
32) 1,4-Difluorobenzene	11.565	114	831263	50.0000	ug/L	-0.02
49) Chlorobenzene-d5	15.607	117	684650	50.0000	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4	18.299	152	322719	50.0000	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	10.450	113	341962	56.5555	ug/L	-0.02
36) 1,2-Dichloroethane-d4	11.032	65	405496	58.2520	ug/L	-0.01
40) Trifluorotoluene	12.334	146	93142	10.1260	ug/L	-0.01
50) Toluene-d8	13.675	98	981943	52.6315	ug/L	-0.02
69) Bromofluorobenzene	16.978	95	398849	53.8123	ug/L	-0.01

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	4.327	85	93029m	13.6928	ug/L	
3) Chloromethane	4.840	50	103431	11.3538	ug/L	99
4) Vinyl Chloride	4.968	62	98847m	12.4801	ug/L	
5) Bromomethane	5.658	94	43036	6.7561	ug/L	95
6) Chloroethane	5.826	64	70677	12.4792	ug/L	98
7) Trichlorofluoromethane	6.201	101	125409	11.7432	ug/L	99
8) Ethanol	6.497	45	192300	1171.7088	ug/L	98
9) Freon 113	6.970	101	70621	11.8790	ug/L	92
10) 1,1-Dichloroethene	7.088	96	66785	11.9769	ug/L	# 82
11) Acetone	7.206	43	58296	13.8731	ug/L	92
12) Isopropanol	7.285	45	96970	123.1220	ug/L	96
13) Iodomethane	7.414	142	25886	5.0812	ug/L	97
14) Carbon Disulfide	7.502	76	273712	12.2117	ug/L	98
15) Methylene Chloride	7.897	84	89640	12.0959	ug/L	99
16) tert-Butyl Alcohol (TBA)	7.877	59	124692	122.8406	ug/L	95
17) MTBE	8.133	73	242534	12.1137	ug/L	98
18) trans-1,2-Dichloroethene	8.232	96	75267	11.8049	ug/L	92
19) n-Hexane	8.469	57	67037	10.2129	ug/L	99
20) Isopropyl Ether (DIPE)	8.764	45	358694	11.9626	ug/L	100
21) Vinyl Acetate	8.863	43	233618m	12.1544	ug/L	
22) 1,1-Dichloroethane	8.922	63	156150	11.9354	ug/L	97
23) ETBE	9.297	59	286240	11.8119	ug/L	94
24) 2,2-Dichloropropane	9.740	77	108891	11.3923	ug/L	97
25) cis-1,2-Dichloroethene	9.780	96	84528	11.6679	ug/L	98
26) 2-Butanone	9.750	43	73368	12.6642	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA717.D
 Acq On : 7 Jan 2019 4:29 pm
 Operator :
 Sample : ical,s37791,.001/100,s39030,.002/100,
 Misc : s39361,.002/100,s37362,.002/100,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 08 07:19:58 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.164	128	41750	12.0170	ug/L	# 83
28) Tetrahydrofuran	10.145	42	362574	117.1105	ug/L	97
29) Chloroform	10.194	83	147153	11.4795	ug/L	99
31) 1,1,1-Trichloroethane	10.480	97	113029	11.5367	ug/L	95
33) Carbon Tetrachloride	10.677	117	92922	10.7360	ug/L	97
34) 1,1-Dichloropropene	10.707	75	110694	11.2772	ug/L	98
35) Benzene	11.032	78	306215	11.1705	ug/L	97
37) TAME	11.022	73	249099	11.1047	ug/L	97
38) 1,2-Dichloroethane	11.141	62	119880	11.2999	ug/L	97
39) Trichloroethene	11.969	95	78660	10.7029	ug/L	93
41) 1,2-Dichloropropane	12.383	63	89737	10.8108	ug/L	96
42) Dibromomethane	12.590	93	58088	10.7518	ug/L	96
43) _1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	12.738	83	113541	11.0425	ug/L	92
45) 2-Chloroethylvinylether	13.083	63	40228	10.0956	ug/L	96
46) Tetramethyl THF	13.280	43	205584	10.2065	ug/L	96
47) cis-1,3-Dichloropropene	13.359	75	136123	10.7899	ug/L	96
48) 4-Methyl-2-Pentanone	13.487	43	132305	11.3292	ug/L	94
51) Toluene	13.773	91	281600	10.4067	ug/L	95
52) trans-1,3-Dichloropropene	14.108	75	131274	11.5785	ug/L	99
53) 1,1,2-Trichloroethane	14.375	85	39929	11.1956	ug/L	91
54) Tetrachloroethene	14.483	166	60914	10.6571	ug/L	94
55) 2-Hexanone	14.592	43	96817	11.5580	ug/L	99
56) 1,3-Dichloropropane	14.621	76	128397	11.5755	ug/L	98
57) Dibromochloromethane	14.887	129	81192	11.0089	ug/L	98
58) 1,2-Dibromoethane	15.094	107	77531	10.9981	ug/L	94
59) 1-Chlorohexane	15.479	91	102720	11.0017	ug/L	94
60) Chlorobenzene	15.637	112	178200	10.3513	ug/L	100
61) Ethylbenzene	15.686	91	326612	10.7396	ug/L	100
62) 1,1,1,2-Tetrachloroethane	15.726	131	67163	11.1095	ug/L	95
63) m,p-Xylenes	15.824	106	233237	21.2634	ug/L	91
64) o-Xylene	16.317	106	114896	10.7230	ug/L	95
65) Styrene	16.347	104	196016	10.4758	ug/L	97
66) Bromoform	16.652	173	52558	10.4799	ug/L	93
68) Isopropylbenzene	16.712	105	304602	10.9270	ug/L	95
70) 1,1,2,2-Tetrachloroethane	17.126	83	105183	11.2479	ug/L	98
71) Propylbenzene	17.175	91	386391	11.1227	ug/L	99
72) Bromobenzene	17.185	156	72696	10.6128	ug/L	# 90
73) 1,2,3-Trichloropropane	17.214	75	87407m	10.0848	ug/L	
74) 1,3,5-Trimethylbenzene	17.352	105	235082	11.3807	ug/L	99
75) 2-Chlorotoluene	17.352	91	251387	11.0245	ug/L	98
76) 4-Chlorotoluene	17.481	91	234130	11.0502	ug/L	100
77) tert-Butylbenzene	17.727	119	202363	10.6224	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA717.D
 Acq On : 7 Jan 2019 4:29 pm
 Operator :
 Sample : ical,s37791,.001/100,s39030,.002/100,
 Misc : s39361,.002/100,s37362,.002/100,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 08 07:19:58 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

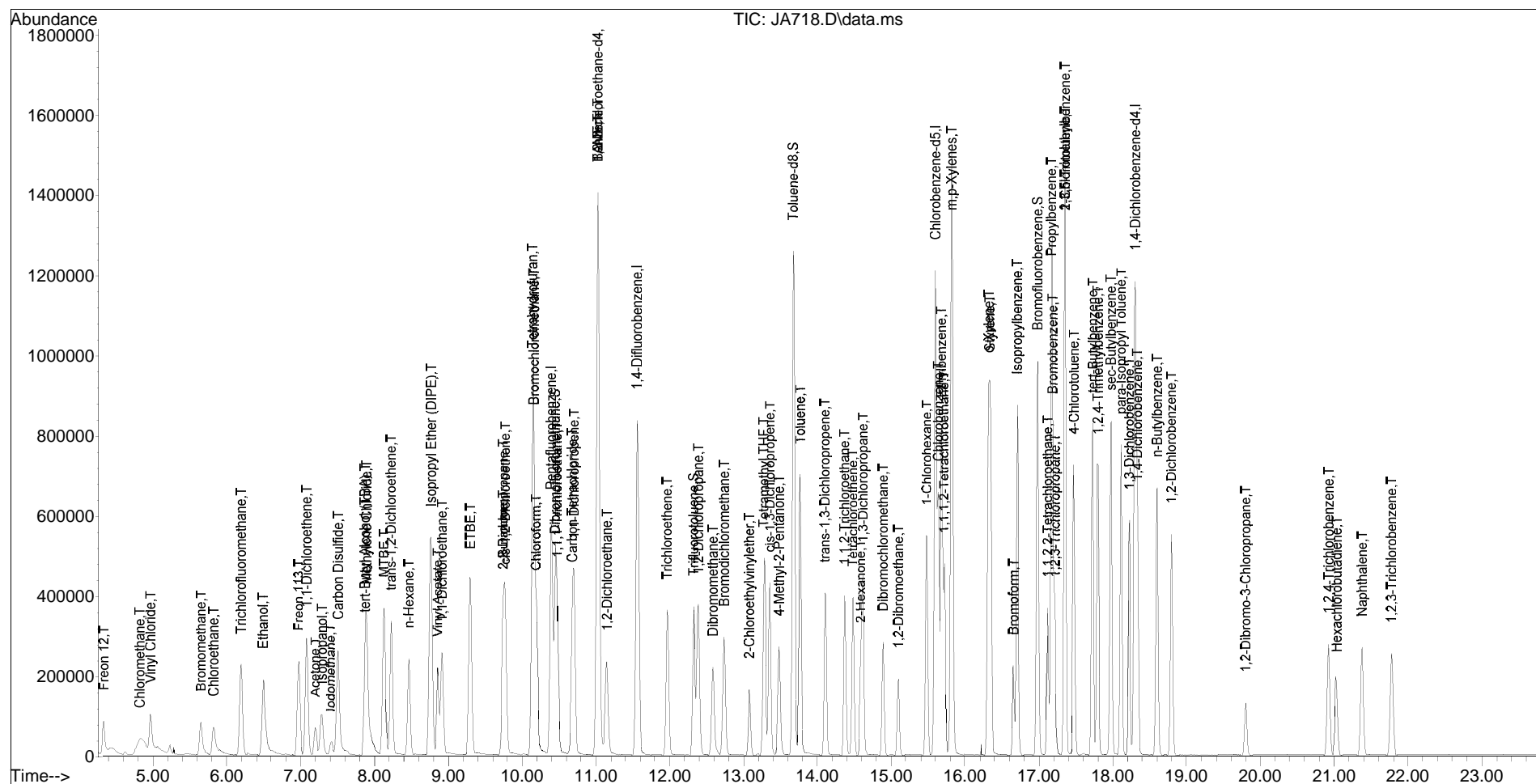
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.796	105	222831	11.5055	ug/L	100
79) sec-Butylbenzene	17.974	105	324730	11.0316	ug/L	96
80) para-Isopropyl Toluene	18.112	119	231899	11.0363	ug/L	100
81) 1,3-Dichlorobenzene	18.220	146	125419	10.2715	ug/L	92
82) 1,4-Dichlorobenzene	18.329	146	125792	10.2145	ug/L	94
83) n-Butylbenzene	18.595	91	209638	11.2981	ug/L	99
84) 1,2-Dichlorobenzene	18.802	146	122110	10.2404	ug/L	97
85) 1,2-Dibromo-3-Chloropropane	19.808	75	22472	11.8307	ug/L	96
86) 1,2,4-Trichlorobenzene	20.932	180	50092	10.5441	ug/L	100
87) Hexachlorobutadiene	21.030	225	23580	9.6041	ug/L	98
88) Naphthalene	21.375	128	140654	11.1064	ug/L	99
89) 1,2,3-Trichlorobenzene	21.780	180	51442	10.8162	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA718.D
 Acq On : 7 Jan 2019 5:00 pm
 Operator :
 Sample : ical,s37791,.002/100,s39030,.004/100,
 Misc : s39361,.004/100,s37362,.004/100,
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 08 07:22:05 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA718.D
 Acq On : 7 Jan 2019 5:00 pm
 Operator :
 Sample : ical,s37791,.002/100,s39030,.004/100,
 Misc : s39361,.004/100,s37362,.004/100,
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 08 07:22:05 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.396	168	456247	50.0000	ug/L	-0.03
32) 1,4-Difluorobenzene	11.560	114	834525	50.0000	ug/L	-0.03
49) Chlorobenzene-d5	15.602	117	689038	50.0000	ug/L	-0.02
67) 1,4-Dichlorobenzene-d4	18.304	152	332017	50.0000	ug/L	0.00

System Monitoring Compounds

30) Dibromofluoromethane	10.445	113	342542	56.8083	ug/L	-0.03
36) 1,2-Dichloroethane-d4	11.027	65	391771	56.0603	ug/L	-0.02
40) Trifluorotoluene	12.329	146	185872	20.1281	ug/L	-0.02
50) Toluene-d8	13.670	98	987273	52.5801	ug/L	-0.03
69) Bromofluorobenzene	16.983	95	409344	53.6816	ug/L	0.00

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	4.332	85	179572m	26.5042	ug/L	
3) Chloromethane	4.825	50	203076	22.3538	ug/L	95
4) Vinyl Chloride	4.963	62	195001m	24.6884	ug/L	
5) Bromomethane	5.653	94	89410	14.0750	ug/L	98
6) Chloroethane	5.821	64	138695	24.5567	ug/L	98
7) Trichlorofluoromethane	6.196	101	231763	21.7622	ug/L	97
8) Ethanol	6.491	45	381129	2328.7021	ug/L	95
9) Freon 113	6.975	101	145117	24.4774	ug/L	97
10) 1,1-Dichloroethene	7.083	96	131378	23.6259	ug/L	# 84
11) Acetone	7.201	43	114079	27.2234	ug/L	95
12) Isopropanol	7.290	45	185859	236.6373	ug/L	97
13) Iodomethane	7.408	142	67365	11.0627	ug/L	96
14) Carbon Disulfide	7.507	76	537456	24.0452	ug/L	99
15) Methylene Chloride	7.892	84	181305	24.5329	ug/L	98
16) tert-Butyl Alcohol (TBA)	7.872	59	236736	233.8672	ug/L	98
17) MTBE	8.128	73	455184	22.7978	ug/L	99
18) trans-1,2-Dichloroethene	8.227	96	153325	24.1141	ug/L	89
19) n-Hexane	8.463	57	131956	20.1588	ug/L	93
20) Isopropyl Ether (DIPE)	8.769	45	704489	23.5600	ug/L	99
21) Vinyl Acetate	8.858	43	428808m	22.3713	ug/L	
22) 1,1-Dichloroethane	8.917	63	308454	23.6421	ug/L	98
23) ETBE	9.302	59	561736	23.2447	ug/L	95
24) 2,2-Dichloropropane	9.745	77	206694	21.6845	ug/L	97
25) cis-1,2-Dichloroethene	9.775	96	164481	22.7671	ug/L	99
26) 2-Butanone	9.745	43	143281	24.8006	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA718.D
 Acq On : 7 Jan 2019 5:00 pm
 Operator :
 Sample : ical,s37791,.002/100,s39030,.004/100,
 Misc : s39361,.004/100,s37362,.004/100,
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 08 07:22:05 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.159	128	81967	23.6582	ug/L	95
28) Tetrahydrofuran	10.140	42	693469	224.6094	ug/L	97
29) Chloroform	10.189	83	295636	23.1266	ug/L	98
31) 1,1,1-Trichloroethane	10.475	97	224446	22.9724	ug/L	99
33) Carbon Tetrachloride	10.682	117	187451	21.5731	ug/L	98
34) 1,1-Dichloropropene	10.702	75	217963	22.1187	ug/L	97
35) Benzene	11.027	78	590843	21.4692	ug/L	100
37) TAME	11.027	73	482190	21.4118	ug/L	97
38) 1,2-Dichloroethane	11.145	62	231981	21.7810	ug/L	98
39) Trichloroethene	11.964	95	161584	21.9001	ug/L	94
41) 1,2-Dichloropropane	12.388	63	171813m	20.6178	ug/L	
42) Dibromomethane	12.585	93	116068	21.3996	ug/L	95
43) _1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	12.733	83	226451	21.9375	ug/L	91
45) 2-Chloroethylvinylether	13.078	63	82035	20.5069	ug/L	99
46) Tetramethyl THF	13.275	43	398803	19.7218	ug/L	97
47) cis-1,3-Dichloropropene	13.354	75	276395	21.8230	ug/L	95
48) 4-Methyl-2-Pentanone	13.482	43	260429	22.2131	ug/L	93
51) Toluene	13.768	91	565342	20.7594	ug/L	98
52) trans-1,3-Dichloropropene	14.103	75	261102	22.8828	ug/L	98
53) 1,1,2-Trichloroethane	14.370	85	82388	22.9536	ug/L	96
54) Tetrachloroethene	14.478	166	120375	20.9258	ug/L	92
55) 2-Hexanone	14.587	43	193695	22.9759	ug/L	97
56) 1,3-Dichloropropane	14.616	76	258734	23.1774	ug/L	98
57) Dibromochloromethane	14.892	129	161919	21.8150	ug/L	94
58) 1,2-Dibromoethane	15.099	107	158545	22.3472	ug/L	99
59) 1-Chlorohexane	15.484	91	194414	20.6899	ug/L	94
60) Chlorobenzene	15.642	112	355828	20.5378	ug/L	95
61) Ethylbenzene	15.681	91	641457	20.9579	ug/L	99
62) 1,1,1,2-Tetrachloroethane	15.720	131	131323	21.5840	ug/L	96
63) m,p-Xylenes	15.819	106	465728	42.1885	ug/L	93
64) o-Xylene	16.322	106	231780	21.4938	ug/L	98
65) Styrene	16.342	104	406148	21.5679	ug/L	98
66) Bromoform	16.657	173	107948	21.3875	ug/L	96
68) Isopropylbenzene	16.706	105	605024	21.0963	ug/L	100
70) 1,1,2,2-Tetrachloroethane	17.121	83	206840	21.4993	ug/L	97
71) Propylbenzene	17.170	91	758842	21.2324	ug/L	97
72) Bromobenzene	17.190	156	144630	20.5230	ug/L	96
73) 1,2,3-Trichloropropane	17.219	75	178650m	20.0349	ug/L	
74) 1,3,5-Trimethylbenzene	17.357	105	482755	22.7165	ug/L	97
75) 2-Chlorotoluene	17.357	91	500054	21.3156	ug/L	97
76) 4-Chlorotoluene	17.476	91	458326	21.0258	ug/L	97
77) tert-Butylbenzene	17.732	119	413042	21.0741	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA718.D
 Acq On : 7 Jan 2019 5:00 pm
 Operator :
 Sample : ical,s37791,.002/100,s39030,.004/100,
 Misc : s39361,.004/100,s37362,.004/100,
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 08 07:22:05 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

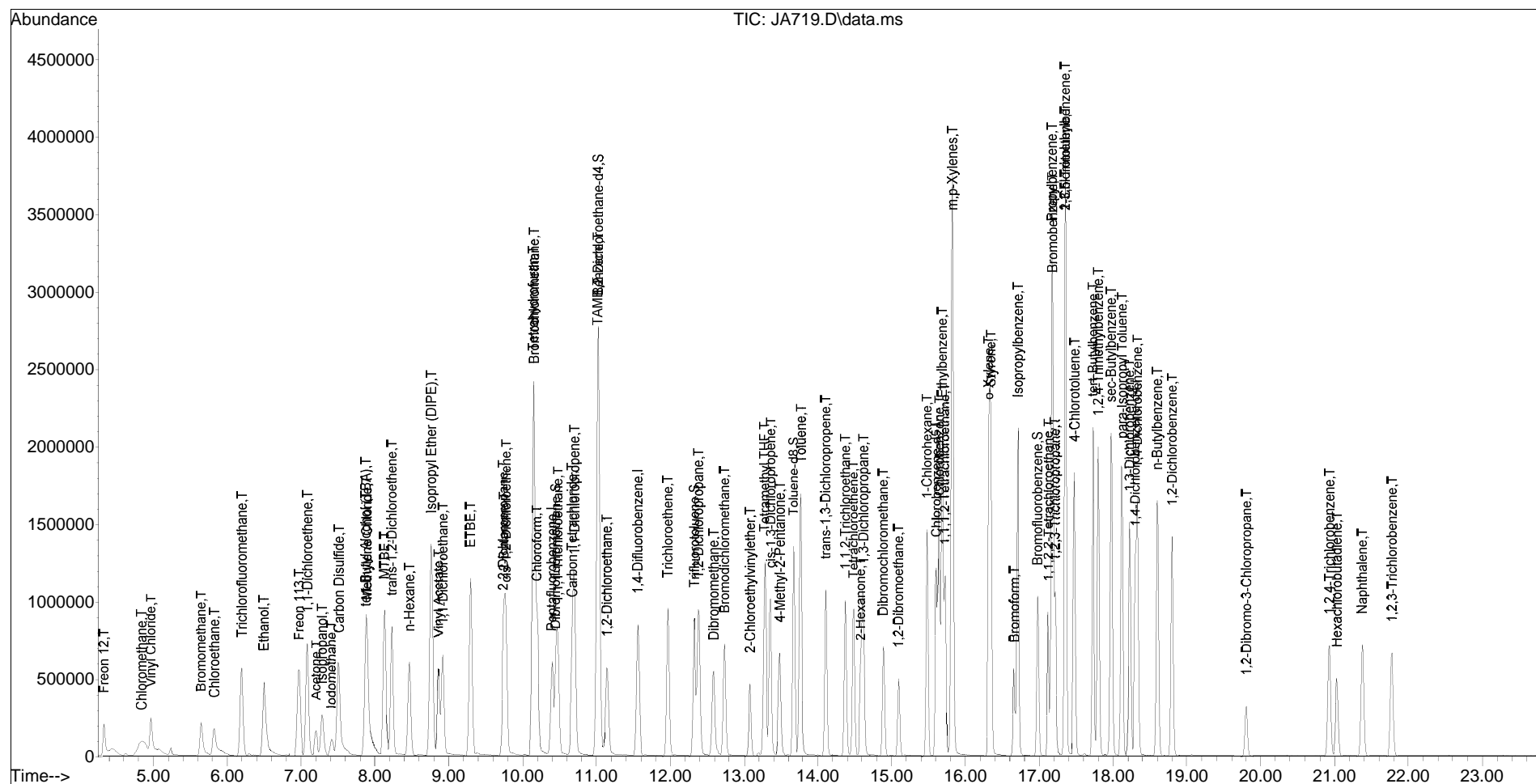
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.801	105	462075	23.1903	ug/L	97
79) sec-Butylbenzene	17.978	105	643358	21.2438	ug/L	98
80) para-Isopropyl Toluene	18.116	119	474907	21.9683	ug/L	99
81) 1,3-Dichlorobenzene	18.225	146	255775	20.3607	ug/L	94
82) 1,4-Dichlorobenzene	18.333	146	256824	20.2705	ug/L	95
83) n-Butylbenzene	18.600	91	433450	22.7060	ug/L	98
84) 1,2-Dichlorobenzene	18.797	146	248741	20.2758	ug/L	94
85) 1,2-Dibromo-3-Chloropropane	19.802	75	46474	23.7817	ug/L	92
86) 1,2,4-Trichlorobenzene	20.927	180	108667	22.2334	ug/L	95
87) Hexachlorobutadiene	21.035	225	46075	18.2407	ug/L	97
88) Naphthalene	21.380	128	312442	23.9803	ug/L	98
89) 1,2,3-Trichlorobenzene	21.774	180	111498	21.9975	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA719.D
 Acq On : 7 Jan 2019 5:32 pm
 Operator :
 Sample : ical,s37791,.005/100,s39030,.01/100,
 Misc : s39361,.01/100,s37362,.01/100,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 08 07:24:29 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA719.D
 Acq On : 7 Jan 2019 5:32 pm
 Operator :
 Sample : ical,s37791,.005/100,s39030,.01/100,
 Misc : s39361,.01/100,s37362,.01/100,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 08 07:24:29 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.400	168	473385	50.0000	ug/L	-0.02
32) 1,4-Difluorobenzene	11.564	114	853668	50.0000	ug/L	-0.02
49) Chlorobenzene-d5	15.606	117	705270	50.0000	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4	18.298	152	345170	50.0000	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	10.449	113	352083	56.2767	ug/L	-0.02
36) 1,2-Dichloroethane-d4	11.031	65	386104	54.0105	ug/L	-0.01
40) Trifluorotoluene	12.333	146	467451	49.4853	ug/L	-0.01
50) Toluene-d8	13.674	98	1025940	53.3819	ug/L	-0.02
69) Bromofluorobenzene	16.977	95	417167	52.6228	ug/L	-0.01

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	4.326	85	454108m	64.5982	ug/L	
3) Chloromethane	4.839	50	515378	54.6769	ug/L	98
4) Vinyl Chloride	4.967	62	493445	60.2115	ug/L	97
5) Bromomethane	5.648	94	245605	37.2637	ug/L	95
6) Chloroethane	5.825	64	353408	60.3075	ug/L	99
7) Trichlorofluoromethane	6.200	101	589251	53.3266	ug/L	99
8) Ethanol	6.495	45	959905	5652.6972	ug/L	94
9) Freon 113	6.979	101	351529	57.1470	ug/L	97
10) 1,1-Dichloroethene	7.087	96	328743	56.9782	ug/L	# 84
11) Acetone	7.205	43	272807	62.7447	ug/L	92
12) Isopropanol	7.284	45	477548	586.0062	ug/L	97
13) Iodomethane	7.412	142	249930	34.6629	ug/L	96
14) Carbon Disulfide	7.511	76	1342278	57.8779	ug/L	98
15) Methylene Chloride	7.896	84	459953	59.9844	ug/L	97
16) tert-Butyl Alcohol (TBA)	7.876	59	594850	566.3671	ug/L	97
17) MTBE	8.132	73	1164569	56.2156	ug/L	99
18) trans-1,2-Dichloroethene	8.231	96	382238	57.9399	ug/L	91
19) n-Hexane	8.467	57	334866	49.3050	ug/L	92
20) Isopropyl Ether (DIPE)	8.763	45	1738911	56.0486	ug/L	99
21) Vinyl Acetate	8.862	43	1114260m	56.0274	ug/L	
22) 1,1-Dichloroethane	8.921	63	778026	57.4745	ug/L	99
23) ETBE	9.296	59	1376105	54.8818	ug/L	94
24) 2,2-Dichloropropane	9.739	77	510093	51.5771	ug/L	99
25) cis-1,2-Dichloroethene	9.779	96	430125	57.3816	ug/L	97
26) 2-Butanone	9.749	43	340756	56.8464	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA719.D
 Acq On : 7 Jan 2019 5:32 pm
 Operator :
 Sample : ical,s37791,.005/100,s39030,.01/100,
 Misc : s39361,.01/100,s37362,.01/100,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 08 07:24:29 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.154	128	213844	59.4874	ug/L	95
28) Tetrahydrofuran	10.144	42	1718049	536.3174	ug/L	97
29) Chloroform	10.193	83	739712	55.7702	ug/L	99
31) 1,1,1-Trichloroethane	10.479	97	562134	55.4523	ug/L	99
33) Carbon Tetrachloride	10.676	117	465531	52.3749	ug/L	98
34) 1,1-Dichloropropene	10.706	75	553706	54.9297	ug/L	95
35) Benzene	11.031	78	1501843	53.3481	ug/L	100
37) TAME	11.021	73	1221798	53.0377	ug/L	95
38) 1,2-Dichloroethane	11.140	62	578721	53.1185	ug/L	98
39) Trichloroethene	11.968	95	405520	53.7291	ug/L	96
41) 1,2-Dichloropropane	12.382	63	444115m	52.0994	ug/L	
42) Dibromomethane	12.589	93	293670	52.9302	ug/L	98
43) _1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	12.737	83	567045	53.7009	ug/L	93
45) 2-Chloroethylvinylether	13.082	63	231676	56.6152	ug/L	97
46) Tetramethyl THF	13.279	43	975720	47.1698	ug/L	93
47) cis-1,3-Dichloropropene	13.358	75	685662	52.9231	ug/L	97
48) 4-Methyl-2-Pentanone	13.486	43	649280	54.1380	ug/L	91
51) Toluene	13.772	91	1443568	51.7880	ug/L	98
52) trans-1,3-Dichloropropene	14.107	75	656332	56.1967	ug/L	97
53) 1,1,2-Trichloroethane	14.374	85	214038	58.2592	ug/L	99
54) Tetrachloroethene	14.482	166	308947	52.4709	ug/L	94
55) 2-Hexanone	14.581	43	489927	56.7772	ug/L	98
56) 1,3-Dichloropropane	14.620	76	646243	56.5582	ug/L	99
57) Dibromochloromethane	14.886	129	421313	55.4561	ug/L	99
58) 1,2-Dibromoethane	15.093	107	405542	55.8462	ug/L	98
59) 1-Chlorohexane	15.478	91	504168	52.4197	ug/L	92
60) Chlorobenzene	15.646	112	908524	51.2316	ug/L	94
61) Ethylbenzene	15.685	91	1628117	51.9702	ug/L	99
62) 1,1,1,2-Tetrachloroethane	15.724	131	343248	55.1172	ug/L	96
63) m,p-Xylenes	15.823	106	1200284	106.2266	ug/L	# 87
64) o-Xylene	16.316	106	597597	54.1418	ug/L	98
65) Styrene	16.346	104	1044687	54.1997	ug/L	95
66) Bromoform	16.661	173	284514	55.0727	ug/L	95
68) Isopropylbenzene	16.710	105	1542150	51.7235	ug/L	97
70) 1,1,2,2-Tetrachloroethane	17.125	83	522521	52.2422	ug/L	97
71) Propylbenzene	17.174	91	1939810	52.2077	ug/L	100
72) Bromobenzene	17.184	156	384888	52.5344	ug/L	99
73) 1,2,3-Trichloropropane	17.213	75	463862m	50.0381	ug/L	
74) 1,3,5-Trimethylbenzene	17.351	105	1246866	56.4366	ug/L	96
75) 2-Chlorotoluene	17.351	91	1267573	51.9734	ug/L	100
76) 4-Chlorotoluene	17.480	91	1179435	52.0450	ug/L	98
77) tert-Butylbenzene	17.726	119	1048321	51.4489	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA719.D
 Acq On : 7 Jan 2019 5:32 pm
 Operator :
 Sample : ical,s37791,.005/100,s39030,.01/100,
 Misc : s39361,.01/100,s37362,.01/100,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 08 07:24:29 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

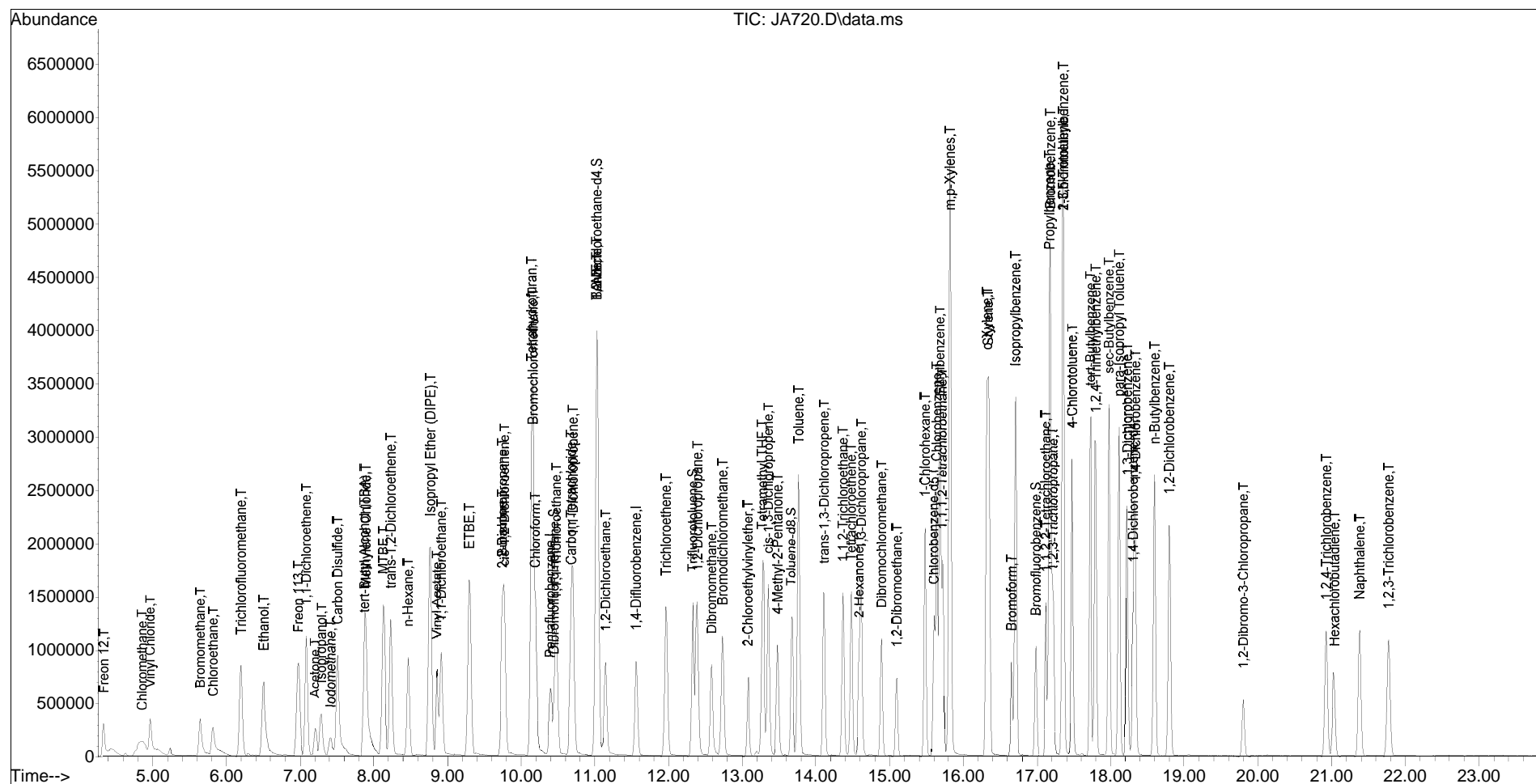
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.795	105	1185053	57.2083	ug/L	97
79) sec-Butylbenzene	17.973	105	1672790	53.1311	ug/L	99
80) para-Isopropyl Toluene	18.120	119	1243849	55.3456	ug/L	98
81) 1,3-Dichlorobenzene	18.219	146	658525	50.4236	ug/L	95
82) 1,4-Dichlorobenzene	18.328	146	664626	50.4584	ug/L	96
83) n-Butylbenzene	18.594	91	1131292	57.0037	ug/L	98
84) 1,2-Dichlorobenzene	18.801	146	645178	50.5869	ug/L	97
85) 1,2-Dibromo-3-Chloropropane	19.807	75	115766	56.9823	ug/L	99
86) 1,2,4-Trichlorobenzene	20.931	180	289929	57.0593	ug/L	95
87) Hexachlorobutadiene	21.029	225	119174	45.3822	ug/L	94
88) Naphthalene	21.374	128	845877	62.4482	ug/L	97
89) 1,2,3-Trichlorobenzene	21.779	180	301550	53.5373	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA720.D
 Acq On : 7 Jan 2019 6:03 pm
 Operator :
 Sample : ical,s37791,.0075/100,s39030,.015/100,
 Misc : s39361,.015/100,s37362,.015/100,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 08 07:26:46 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA720.D
 Acq On : 7 Jan 2019 6:03 pm
 Operator :
 Sample : ical,s37791,.0075/100,s39030,.015/100,
 Misc : s39361,.015/100,s37362,.015/100,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 08 07:26:46 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.397	168	493436	50.0000	ug/L	-0.03
32) 1,4-Difluorobenzene	11.560	114	891205	50.0000	ug/L	-0.03
49) Chlorobenzene-d5	15.603	117	740554	50.0000	ug/L	-0.02
67) 1,4-Dichlorobenzene-d4	18.305	152	369978	50.0000	ug/L	0.00

System Monitoring Compounds

30) Dibromofluoromethane	10.446	113	365592	56.0614	ug/L	-0.03
36) 1,2-Dichloroethane-d4	11.028	65	381631	51.1362	ug/L	-0.02
40) Trifluorotoluene	12.330	146	745217	75.5673	ug/L	-0.02
50) Toluene-d8	13.670	98	1049217	51.9920	ug/L	-0.03
69) Bromofluorobenzene	16.983	95	435846	51.2926	ug/L	0.00

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	4.333	85	694076m	94.7223	ug/L	
3) Chloromethane	4.856	50	781423	79.5331	ug/L	98
4) Vinyl Chloride	4.964	62	724041m	84.7593	ug/L	
5) Bromomethane	5.644	94	429499	62.5164	ug/L	98
6) Chloroethane	5.822	64	537184	87.9430	ug/L	98
7) Trichlorofluoromethane	6.197	101	887733	77.0743	ug/L	100
8) Ethanol	6.502	45	1452667	8206.8633	ug/L	95
9) Freon 113	6.976	101	547003	85.3111	ug/L	98
10) 1,1-Dichloroethene	7.084	96	522737	86.9198	ug/L	# 80
11) Acetone	7.202	43	422838	93.2995	ug/L	91
12) Isopropanol	7.291	45	722486	850.5469	ug/L	97
13) Iodomethane	7.419	142	444807	56.0448	ug/L	98
14) Carbon Disulfide	7.508	76	2097734	86.7769	ug/L	99
15) Methylene Chloride	7.893	84	704553	88.1499	ug/L	98
16) tert-Butyl Alcohol (TBA)	7.873	59	892784	815.4937	ug/L	99
17) MTBE	8.129	73	1764126	81.6968	ug/L	99
18) trans-1,2-Dichloroethene	8.228	96	591533	86.0214	ug/L	# 89
19) n-Hexane	8.464	57	511724	72.2836	ug/L	93
20) Isopropyl Ether (DIPE)	8.770	45	2569241	79.4467	ug/L	99
21) Vinyl Acetate	8.859	43	1576609m	76.0539	ug/L	
22) 1,1-Dichloroethane	8.918	63	1171641	83.0347	ug/L	98
23) ETBE	9.293	59	2112279	80.8187	ug/L	93
24) 2,2-Dichloropropane	9.746	77	796353	77.2497	ug/L	96
25) cis-1,2-Dichloroethene	9.776	96	665257	85.1435	ug/L	96
26) 2-Butanone	9.746	43	530086	84.8378	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA720.D
 Acq On : 7 Jan 2019 6:03 pm
 Operator :
 Sample : ical,s37791,.0075/100,s39030,.015/100,
 Misc : s39361,.015/100,s37362,.015/100,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 08 07:26:46 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.160	128	329676	87.9830	ug/L	91
28) Tetrahydrofuran	10.141	42	2557382	765.8886	ug/L	96
29) Chloroform	10.190	83	1131461	81.8394	ug/L	97
31) 1,1,1-Trichloroethane	10.476	97	861937	81.5716	ug/L	98
33) Carbon Tetrachloride	10.683	117	726132	78.2531	ug/L	98
34) 1,1-Dichloropropene	10.703	75	846356	80.4252	ug/L	95
35) Benzene	11.028	78	2324881	79.1055	ug/L	99
37) TAME	11.028	73	1854838	77.1263	ug/L	95
38) 1,2-Dichloroethane	11.146	62	879952	77.3654	ug/L	97
39) Trichloroethene	11.965	95	625949	79.4416	ug/L	96
41) 1,2-Dichloropropane	12.389	63	671349m	75.4392	ug/L	
42) Dibromomethane	12.586	93	453060	78.2188	ug/L	96
43) _1,4-Dioxane	10.190	88	1141	No Calib	#	
44) Bromodichloromethane	12.734	83	885290	80.3084	ug/L	95
45) 2-Chloroethylvinylether	13.079	63	375422	87.8786	ug/L	98
46) Tetramethyl THF	13.276	43	1474297	68.2708	ug/L	92
47) cis-1,3-Dichloropropene	13.355	75	1058601	78.2671	ug/L	97
48) 4-Methyl-2-Pentanone	13.483	43	979940	78.2675	ug/L	92
51) Toluene	13.769	91	2222446	75.9315	ug/L	99
52) trans-1,3-Dichloropropene	14.114	75	991964	80.8876	ug/L	95
53) 1,1,2-Trichloroethane	14.371	85	327613	84.9246	ug/L	98
54) Tetrachloroethene	14.479	166	486250	78.6489	ug/L	95
55) 2-Hexanone	14.587	43	741230	81.8077	ug/L	94
56) 1,3-Dichloropropane	14.617	76	991796	82.6648	ug/L	98
57) Dibromochloromethane	14.893	129	648193	81.2545	ug/L	94
58) 1,2-Dibromoethane	15.100	107	625412	82.0205	ug/L	97
59) 1-Chlorohexane	15.485	91	792796	78.5018	ug/L	84
60) Chlorobenzene	15.642	112	1419099	76.2102	ug/L	94
61) Ethylbenzene	15.682	91	2504194	76.1264	ug/L	98
62) 1,1,1,2-Tetrachloroethane	15.721	131	536462	82.0383	ug/L	96
63) m,p-Xylenes	15.820	106	1890315	159.3244	ug/L	# 83
64) o-Xylene	16.323	106	927317	80.0113	ug/L	92
65) Styrene	16.343	104	1631985	80.6353	ug/L	95
66) Bromoform	16.658	173	440866	81.2715	ug/L	97
68) Isopropylbenzene	16.707	105	2395060	74.9437	ug/L	97
70) 1,1,2,2-Tetrachloroethane	17.121	83	804239	75.0170	ug/L	98
71) Propylbenzene	17.171	91	2944610	73.9368	ug/L	99
72) Bromobenzene	17.181	156	610778	77.7768	ug/L	97
73) 1,2,3-Trichloropropane	17.220	75	720137m	72.4743	ug/L	
74) 1,3,5-Trimethylbenzene	17.358	105	1930396	81.5163	ug/L	93
75) 2-Chlorotoluene	17.358	91	1916016	73.2934	ug/L	94
76) 4-Chlorotoluene	17.476	91	1799176	74.0688	ug/L	100
77) tert-Butylbenzene	17.733	119	1650597	75.5753	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA720.D
 Acq On : 7 Jan 2019 6:03 pm
 Operator :
 Sample : ical,s37791,.0075/100,s39030,.015/100,
 Misc : s39361,.015/100,s37362,.015/100,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 08 07:26:46 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.802	105	1896644	85.4209	ug/L	96
79) sec-Butylbenzene	17.979	105	2601923	77.1008	ug/L	98
80) para-Isopropyl Toluene	18.117	119	1900619	78.8983	ug/L	98
81) 1,3-Dichlorobenzene	18.226	146	1043334	74.5319	ug/L	95
82) 1,4-Dichlorobenzene	18.334	146	1060693	75.1283	ug/L	97
83) n-Butylbenzene	18.600	91	1744754	82.0199	ug/L	99
84) 1,2-Dichlorobenzene	18.798	146	1018482	74.5021	ug/L	94
85) 1,2-Dibromo-3-Chloropropane	19.803	75	182393	83.7577	ug/L	97
86) 1,2,4-Trichlorobenzene	20.927	180	468361	85.9949	ug/L	95
87) Hexachlorobutadiene	21.036	225	193026	68.5768	ug/L	98
88) Naphthalene	21.381	128	1377512	94.8779	ug/L	99
89) 1,2,3-Trichlorobenzene	21.775	180	483346	76.7027	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA721.D
 Acq On : 7 Jan 2019 6:34 pm
 Operator :
 Sample : ical,s37791,.01/100,s39030,.02/100,
 Misc : s39361,.02/100,s37362,.02/100,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 08 07:28:54 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.401	168	513515	50.0000	ug/L	-0.02
32) 1,4-Difluorobenzene	11.564	114	923043	50.0000	ug/L	-0.02
49) Chlorobenzene-d5	15.607	117	772657	50.0000	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4	18.299	152	385435	50.0000	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	10.450	113	378533	55.7762	ug/L	-0.02
36) 1,2-Dichloroethane-d4	11.032	65	372029	48.1302	ug/L	-0.01
40) Trifluorotoluene	12.333	146	1014713	99.3459	ug/L	-0.01
50) Toluene-d8	13.674	98	1091914	51.8596	ug/L	-0.02
69) Bromofluorobenzene	16.977	95	447524	50.5548	ug/L	-0.01

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	4.327	85	940119m	123.2837	ug/L	
3) Chloromethane	4.859	50	1059985	103.6667	ug/L	96
4) Vinyl Chloride	4.968	62	1005498	113.1054	ug/L	99
5) Bromomethane	5.638	94	634743	88.7785	ug/L	99
6) Chloroethane	5.816	64	729498	114.7573	ug/L	98
7) Trichlorofluoromethane	6.200	101	1229374	102.5626	ug/L	100
8) Ethanol	6.496	45	1889739	10258.6603	ug/L	93
9) Freon 113	6.969	101	737214	110.4808	ug/L	93
10) 1,1-Dichloroethene	7.088	96	709429	113.3502	ug/L	# 75
11) Acetone	7.206	43	544986	115.5496	ug/L	92
12) Isopropanol	7.285	45	943550	1067.3613	ug/L	95
13) Iodomethane	7.413	142	656262m	76.1639	ug/L	
14) Carbon Disulfide	7.512	76	2834712	112.6784	ug/L	98
15) Methylene Chloride	7.896	84	962782	115.7481	ug/L	96
16) tert-Butyl Alcohol (TBA)	7.877	59	1180798	1036.4003	ug/L	96
17) MTBE	8.133	73	2346357	104.4113	ug/L	98
18) trans-1,2-Dichloroethene	8.231	96	815009	113.8853	ug/L	# 86
19) n-Hexane	8.468	57	695774	94.4387	ug/L	89
20) Isopropyl Ether (DIPE)	8.764	45	3432947	102.0037	ug/L	98
21) Vinyl Acetate	8.863	43	2127300m	98.6061	ug/L	
22) 1,1-Dichloroethane	8.922	63	1582501	107.7672	ug/L	98
23) ETBE	9.296	59	2772881	101.9458	ug/L	92
24) 2,2-Dichloropropane	9.750	77	1032071	96.2008	ug/L	93
25) cis-1,2-Dichloroethene	9.780	96	897255	110.3457	ug/L	92
26) 2-Butanone	9.750	43	692813	106.5459	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA721.D
 Acq On : 7 Jan 2019 6:34 pm
 Operator :
 Sample : ical,s37791,.01/100,s39030,.02/100,
 Misc : s39361,.02/100,s37362,.02/100,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 08 07:28:54 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.164	128	452626	116.0723	ug/L	# 87
28) Tetrahydrofuran	10.144	42	3308015	951.9522	ug/L	93
29) Chloroform	10.194	83	1530956	106.4053	ug/L	98
31) 1,1,1-Trichloroethane	10.480	97	1166100	106.0418	ug/L	98
33) Carbon Tetrachloride	10.677	117	958024	99.6823	ug/L	99
34) 1,1-Dichloropropene	10.706	75	1150654	105.5698	ug/L	94
35) Benzene	11.032	78	3157012	103.7141	ug/L	99
37) TAME	11.022	73	2506137	100.6137	ug/L	95
38) 1,2-Dichloroethane	11.150	62	1151681	97.7632	ug/L	98
39) Trichloroethene	11.968	95	866390	106.1642	ug/L	97
41) 1,2-Dichloropropane	12.392	63	907121m	98.4169	ug/L	
42) Dibromomethane	12.590	93	605000	100.8477	ug/L	98
43) _1,4-Dioxane	10.184	88	1698	No Calib	#	
44) Bromodichloromethane	12.738	83	1183310	103.6405	ug/L	95
45) 2-Chloroethylvinylether	13.083	63	513597	116.0758	ug/L	95
46) Tetramethyl THF	13.280	43	1934915	86.5103	ug/L	88
47) cis-1,3-Dichloropropene	13.359	75	1444520	103.1160	ug/L	94
48) 4-Methyl-2-Pentanone	13.487	43	1281834	98.8483	ug/L	88
51) Toluene	13.773	91	3070538	100.5484	ug/L	98
52) trans-1,3-Dichloropropene	14.108	75	1347881	105.3434	ug/L	96
53) 1,1,2-Trichloroethane	14.374	85	444986	110.5577	ug/L	94
54) Tetrachloroethene	14.483	166	674553	104.5729	ug/L	96
55) 2-Hexanone	14.581	43	973668	102.9964	ug/L	94
56) 1,3-Dichloropropane	14.621	76	1377024	110.0043	ug/L	97
57) Dibromochloromethane	14.897	129	902647	108.4504	ug/L	97
58) 1,2-Dibromoethane	15.094	107	869986	109.3549	ug/L	99
59) 1-Chlorohexane	15.479	91	1088356	103.2902	ug/L	89
60) Chlorobenzene	15.646	112	1954336	100.5934	ug/L	91
61) Ethylbenzene	15.686	91	3429534	99.9247	ug/L	96
62) 1,1,1,2-Tetrachloroethane	15.725	131	741582	108.6943	ug/L	96
63) m,p-Xylenes	15.824	106	2569502	207.5711	ug/L	# 79
64) o-Xylene	16.317	106	1284587	106.2323	ug/L	96
65) Styrene	16.346	104	2236670	105.9207	ug/L	93
66) Bromoform	16.662	173	612567	108.2319	ug/L	96
68) Isopropylbenzene	16.711	105	3268501	98.1730	ug/L	96
70) 1,1,2,2-Tetrachloroethane	17.125	83	1091358	97.7162	ug/L	97
71) Propylbenzene	17.174	91	3922675	94.5453	ug/L	96
72) Bromobenzene	17.184	156	845686	103.3714	ug/L	92
73) 1,2,3-Trichloropropane	17.214	75	955325m	92.2879	ug/L	
74) 1,3,5-Trimethylbenzene	17.352	105	2596309	105.2396	ug/L	93
75) 2-Chlorotoluene	17.352	91	2540933	93.3004	ug/L	95
76) 4-Chlorotoluene	17.480	91	2461236	97.2613	ug/L	96
77) tert-Butylbenzene	17.727	119	2266550	99.6159	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA721.D
 Acq On : 7 Jan 2019 6:34 pm
 Operator :
 Sample : ical,s37791,.01/100,s39030,.02/100,
 Misc : s39361,.02/100,s37362,.02/100,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 08 07:28:54 2019
 Quant Method : C:\msdchem\1\METHODS\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Wed Dec 12 12:29:46 2018
 Response via : Initial Calibration

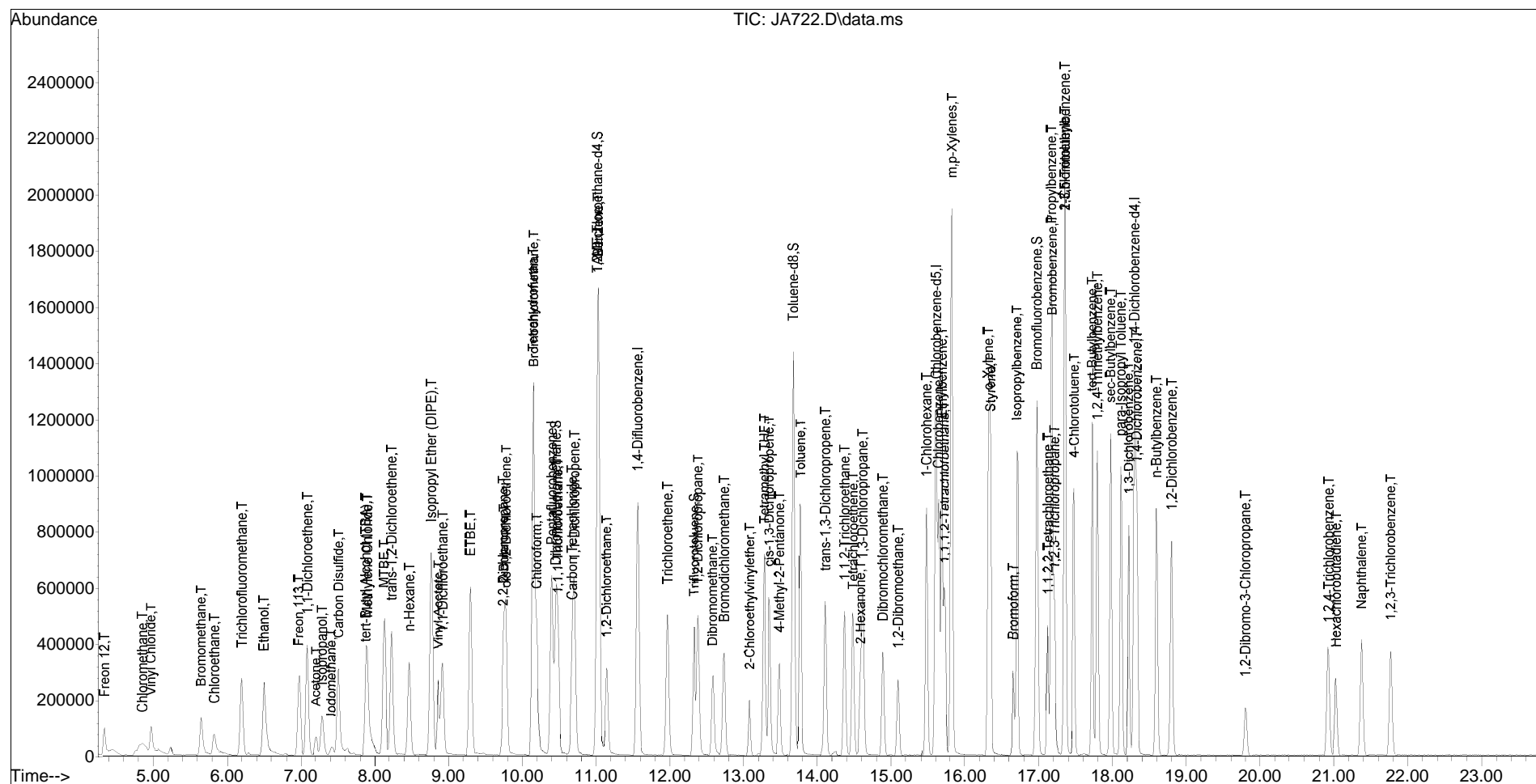
Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.796	105	2598290	112.3287	ug/L	95
79) sec-Butylbenzene	17.973	105	3527968	100.3491	ug/L	99
80) para-Isopropyl Toluene	18.121	119	2671464	106.4502	ug/L	97
81) 1,3-Dichlorobenzene	18.220	146	1444580	99.0570	ug/L	94
82) 1,4-Dichlorobenzene	18.328	146	1462397	99.4269	ug/L	95
83) n-Butylbenzene	18.594	91	2436452	109.9431	ug/L	99
84) 1,2-Dichlorobenzene	18.801	146	1421822	99.8356	ug/L	97
85) 1,2-Dibromo-3-Chloropropane	19.797	75	248746	109.6471	ug/L	91
86) 1,2,4-Trichlorobenzene	20.931	180	664863	117.1787	ug/L	97
87) Hexachlorobutadiene	21.030	225	267026	91.0625	ug/L	97
88) Naphthalene	21.375	128	1936239	128.0128	ug/L	98
89) 1,2,3-Trichlorobenzene	21.779	180	676590	99.1054	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA722.D
 Acq On : 7 Jan 2019 7:05 pm
 Operator :
 Sample : icv,s39081,.01/100,s39228,.01/100,
 Misc : s39033,.01/100,s36178,.01/100,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 09 09:01:37 2019
 Quant Method : G:\msvoa10\010719\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA722.D
 Acq On : 7 Jan 2019 7:05 pm
 Operator :
 Sample : icv,s39081,.01/100,s39228,.01/100,
 Misc : s39033,.01/100,s36178,.01/100,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 09 09:01:37 2019
 Quant Method : G:\msvoa10\010719\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.402	168	517626	50.0000	ug/L	-0.02
32) 1,4-Difluorobenzene	11.565	114	934690	50.0000	ug/L	-0.02
49) Chlorobenzene-d5	15.608	117	767230	50.0000	ug/L	-0.01
67) 1,4-Dichlorobenzene-d4	18.299	152	367489	50.0000	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	10.451	113	376434	48.6964	ug/L	-0.02
36) 1,2-Dichloroethane-d4	11.023	65	406911	46.6641	ug/L	-0.02
40) Trifluorotoluene	12.334	146	254786	24.8332	ug/L	-0.01
50) Toluene-d8	13.675	98	1094963	50.0093	ug/L	-0.02
69) Bromofluorobenzene	16.978	95	445999	49.4691	ug/L	-0.01

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	4.338	85	212717m	21.0309	ug/L	
3) Chloromethane	4.850	50	233717	20.3199	ug/L	100
4) Vinyl Chloride	4.969	62	211881m	20.0657	ug/L	
5) Bromomethane	5.649	94	153153m	29.5490	ug/L	
6) Chloroethane	5.826	64	150695	20.0302	ug/L	100
7) Trichlorofluoromethane	6.201	101	282816	20.9311	ug/L	99
8) Ethanol	6.497	45	522611	2477.0919	ug/L	91
9) Freon 113	6.970	101	183473	23.2980	ug/L	91
10) 1,1-Dichloroethene	7.089	96	182429	24.3877	ug/L	# 83
11) Acetone	7.207	43	111756	17.2651	ug/L	87
12) Isopropanol	7.286	45	255056	242.7495	ug/L	98
13) Iodomethane	7.414	142	95540m	21.7224	ug/L	
14) Carbon Disulfide	7.513	76	652482	21.5048	ug/L	99
15) Methylene Chloride	7.897	84	246964	24.7223	ug/L	94
16) tert-Butyl Alcohol (TBA)	7.877	59	161316	123.2014	ug/L	91
17) MTBE	8.134	73	611430	23.2314	ug/L	98
18) trans-1,2-Dichloroethene	8.232	96	205945	23.6413	ug/L	# 88
19) n-Hexane	8.469	57	189534	26.2229	ug/L	93
20) Isopropyl Ether (DIPE)	8.765	45	916470	23.1551	ug/L	98
21) Vinyl Acetate	8.863	43	527469m	20.9325	ug/L	
22) 1,1-Dichloroethane	8.923	63	399868	22.8630	ug/L	98
23) ETBE	9.297	59	731747	23.4227	ug/L	93
24) 2,2-Dichloropropane	9.741	77	256273	21.3703	ug/L	100
25) cis-1,2-Dichloroethene	9.780	96	230905	24.5443	ug/L	97
26) 2-Butanone	9.751	43	163036	20.7574	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA722.D
 Acq On : 7 Jan 2019 7:05 pm
 Operator :
 Sample : icv,s39081,.01/100,s39228,.01/100,
 Misc : s39033,.01/100,s36178,.01/100,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 09 09:01:37 2019
 Quant Method : G:\msvoa10\010719\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.155	128	112222	25.0351	ug/L	95
28) Tetrahydrofuran	10.145	42	953180	242.6845	ug/L	97
29) Chloroform	10.194	83	391348	22.1881	ug/L	98
31) 1,1,1-Trichloroethane	10.480	97	299589	24.0493	ug/L	99
33) Carbon Tetrachloride	10.678	117	241608	23.5751	ug/L	94
34) 1,1-Dichloropropene	10.707	75	297475	24.7259	ug/L	99
35) Benzene	11.033	78	797663	23.8572	ug/L	100
37) TAME	11.023	73	637311	23.5953	ug/L	97
38) 1,2-Dichloroethane	11.141	62	312542	23.2322	ug/L	98
39) Trichloroethene	11.969	95	217818	24.3812	ug/L	97
41) 1,2-Dichloropropane	12.383	63	234365m	24.1754	ug/L	
42) Dibromomethane	12.581	93	156107	24.3913	ug/L	90
43) _1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	12.738	83	295851	23.6304	ug/L	93
45) 2-Chloroethylvinylether	13.083	63	103266	22.4385	ug/L	95
46) Tetramethyl THF	13.281	43	563937	25.1655	ug/L	91
47) cis-1,3-Dichloropropene	13.350	75	379895	24.9269	ug/L	97
48) 4-Methyl-2-Pentanone	13.488	43	333116	23.2687	ug/L	91
51) Toluene	13.774	91	771626	24.2694	ug/L	98
52) trans-1,3-Dichloropropene	14.109	75	329357	23.0206	ug/L	96
53) 1,1,2-Trichloroethane	14.375	85	111059	24.3902	ug/L	97
54) Tetrachloroethene	14.484	166	168557	25.3075	ug/L	95
55) 2-Hexanone	14.582	43	247490	23.2196	ug/L	95
56) 1,3-Dichloropropane	14.612	76	355733	24.9605	ug/L	98
57) Dibromochloromethane	14.888	129	218627	24.2755	ug/L	98
58) 1,2-Dibromoethane	15.095	107	219458	25.4741	ug/L	94
59) 1-Chlorohexane	15.479	91	295571	27.0696	ug/L	93
60) Chlorobenzene	15.637	112	492617	24.7325	ug/L	97
61) Ethylbenzene	15.687	91	872562	24.4059	ug/L	98
62) 1,1,1,2-Tetrachloroethane	15.726	131	176653	24.4354	ug/L	98
63) m,p-Xylenes	15.825	106	640179	48.5958	ug/L	90
64) o-Xylene	16.318	106	322055	25.2722	ug/L	98
65) Styrene	16.347	104	554250	25.1672	ug/L	95
66) Bromoform	16.653	173	145671	24.8948	ug/L	94
68) Isopropylbenzene	16.702	105	807113	24.0192	ug/L	100
70) 1,1,2,2-Tetrachloroethane	17.126	83	267216	23.5302	ug/L	97
71) Propylbenzene	17.175	91	1047285	25.0085	ug/L	100
72) Bromobenzene	17.185	156	203548	25.4722	ug/L	97
73) 1,2,3-Trichloropropane	17.215	75	256261m	26.0498	ug/L	
74) 1,3,5-Trimethylbenzene	17.353	105	660409	24.8692	ug/L	97
75) 2-Chlorotoluene	17.353	91	688092	24.6787	ug/L	100
76) 4-Chlorotoluene	17.481	91	633135	24.7409	ug/L	98
77) tert-Butylbenzene	17.728	119	575096	25.3510	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\010719\
 Data File : JA722.D
 Acq On : 7 Jan 2019 7:05 pm
 Operator :
 Sample : icv,s39081,.01/100,s39228,.01/100,
 Misc : s39033,.01/100,s36178,.01/100,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 09 09:01:37 2019
 Quant Method : G:\msvoa10\010719\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Tue Jan 08 07:35:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.797	105	633678	24.9219	ug/L	97
79) sec-Butylbenzene	17.974	105	897684	25.1580	ug/L	99
80) para-Isopropyl Toluene	18.112	119	646377	24.8519	ug/L	100
81) 1,3-Dichlorobenzene	18.221	146	352857	24.9368	ug/L	95
82) 1,4-Dichlorobenzene	18.329	146	364360	25.5464	ug/L	95
83) n-Butylbenzene	18.595	91	580409	24.6427	ug/L	99
84) 1,2-Dichlorobenzene	18.802	146	355060	25.8651	ug/L	97
85) 1,2-Dibromo-3-Chloropropane	19.798	75	61332	25.0566	ug/L	93
86) 1,2,4-Trichlorobenzene	20.932	180	160137	27.3394	ug/L	95
87) Hexachlorobutadiene	21.031	225	66612	26.2778	ug/L	96
88) Naphthalene	21.376	128	475343	27.8543	ug/L	100
89) 1,2,3-Trichlorobenzene	21.770	180	163152	28.2105	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Continuing Calibration Verification Raw Data

ENTHALPY SPIKE USER REPORT FOR 306574 MSVOA Water
EPA 8260B

Inst : MSVOA10 Run Name : QC962718 IDF : 1.0
 Seqnum : 499037978003.2 File : jaq03 Time : 26-JAN-2019 09:58
 Cal : 499010456001 Caldate : 07-JAN-2019 Caltype : WATER
 Standards: S39081 (20000X), S39228 (20000X), S39033 (20000X), S36178 (20000X),
 S39494 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
MTBE	2.5423	2.4680	12.50	12.13	ug/L	-3	30	0.0500	u
Benzene	1.7886	1.7705	12.50	12.37	ug/L	-1	30	0.0500	u
Toluene	2.0720	1.9756	12.50	11.92	ug/L	-5	20	0.0500	u
Ethylbenzene	2.3299	2.2325	12.50	11.98	ug/L	-4	20	0.0500	u
m,p-Xylenes	0.8585	0.8100	25.00	23.59	ug/L	-6	30	0.0500	u
o-Xylene	0.8305	0.8018	12.50	12.07	ug/L	-3	30	0.0500	u
Dibromofluoromethane	0.7467	0.7158	50.00	47.93	ug/L	-4	30	0.0500	u
1,2-Dichloroethane-d4	0.4665	0.4136	50.00	44.34	ug/L	-11	30	0.0500	u
Toluene-d8	1.4269	1.3306	50.00	46.62	ug/L	-7	30	0.0500	u
Bromofluorobenzene	1.2267	1.1373	50.00	46.36	ug/L	-7	30	0.0500	u

ISTD (ICAL ja719)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	473385	510088	7.75	10.40	10.37	-0.03
1,4-Difluorobenzene	853668	996444	16.73	11.56	11.54	-0.02
Chlorobenzene-d5	705270	832071	17.98	15.61	15.58	-0.03
1,4-Dichlorobenzene-d4	345170	393291	13.94	18.30	18.28	-0.02

TEW 01/28/19 : Integrations performed by another analyst, likely AHT. [general version]

TEW 01/28/19 [Freon 12]: Combined split peak. [general version]

TEW 01/28/19 [Bromomethane]: Combined split peak. [general version]

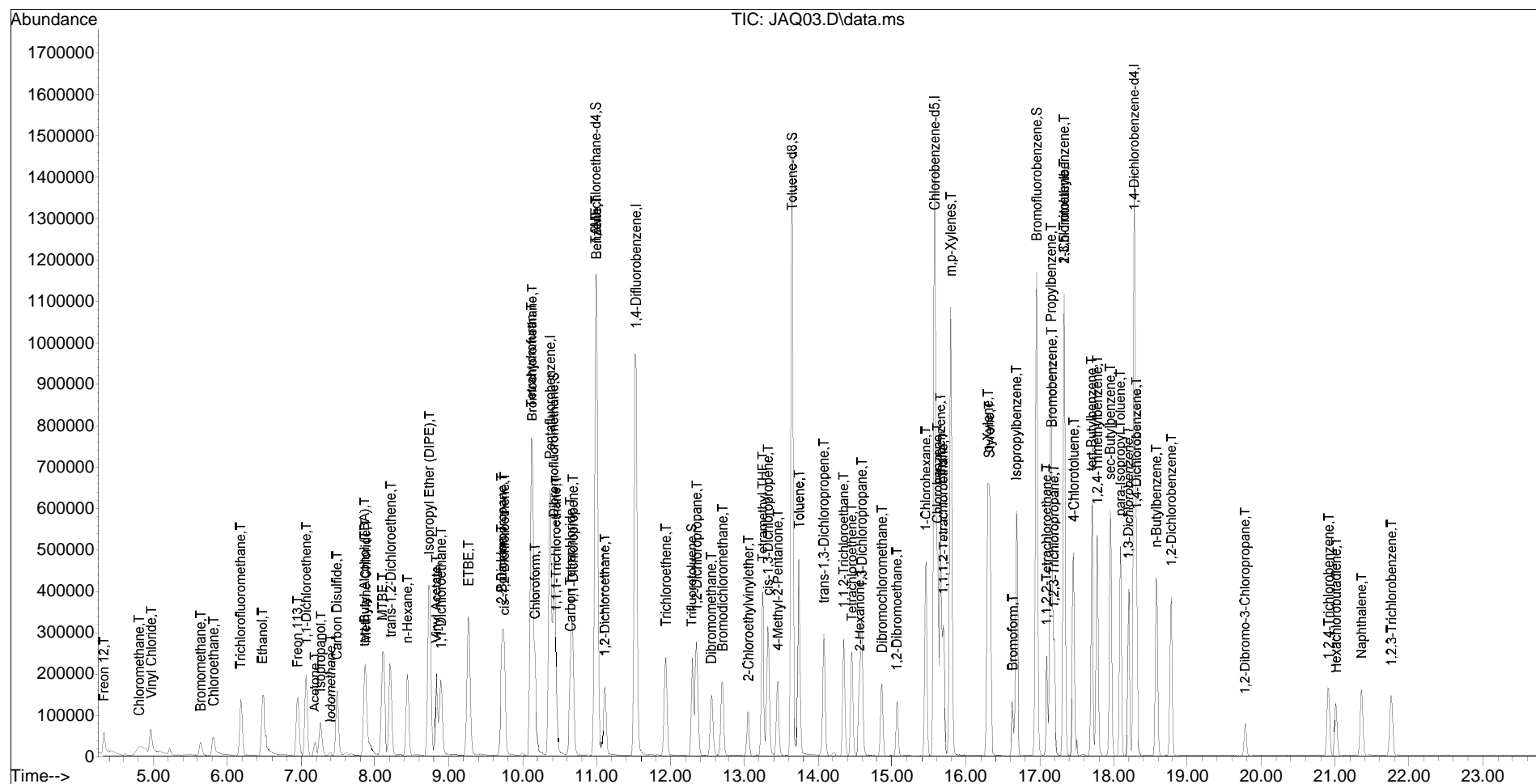
Analyst: TEW Date: 01/28/19 Reviewer: LW Date: 01/28/19

u=use

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\012619\
 Data File : JAQ03.D
 Acq On : 26 Jan 2019 9:58 am
 Operator :
 Sample : ccv/bs,qc962718,267281,s39081,20000X,s39228,
 Misc : .005/100,s39033,.005/100,s36178,.005/100
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 26 13:57:17 2019
 Quant Method : G:\msvoa10\012619\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\012619\
 Data File : JAQ03.D
 Acq On : 26 Jan 2019 9:58 am
 Operator :
 Sample : ccv/bs,qc962718,267281,s39081,20000X,s39228,
 Misc : .005/100,s39033,.005/100,s36178,.005/100
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 26 13:57:17 2019
 Quant Method : G:\msvoa10\012619\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) Pentafluorobenzene	10.371	168	510088	50.0000	ug/L	-0.03
32) 1,4-Difluorobenzene	11.535	114	996444	50.0000	ug/L	-0.03
49) Chlorobenzene-d5	15.578	117	832071	50.0000	ug/L	-0.02
67) 1,4-Dichlorobenzene-d4	18.279	152	393291	50.0000	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	10.421	113	365106	47.9289	ug/L	-0.03
36) 1,2-Dichloroethane-d4	10.993	65	412175	44.3384	ug/L	-0.03
40) Trifluorotoluene	12.294	146	126249	11.5425	ug/L	-0.03
50) Toluene-d8	13.645	98	1107126	46.6244	ug/L	-0.03
69) Bromofluorobenzene	16.958	95	447298	46.3583	ug/L	-0.01

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) Freon 12	4.327	85	109285m	10.9644	ug/L	
3) Chloromethane	4.810	50	116670	10.2935	ug/L	91
4) Vinyl Chloride	4.968	62	120752	11.6045	ug/L	97
5) Bromomethane	5.639	94	32273m	6.9593	ug/L	
6) Chloroethane	5.816	64	85293	11.5046	ug/L	99
7) Trichlorofluoromethane	6.181	101	139977	10.5127	ug/L	97
8) Ethanol	6.477	45	303670	1460.6173	ug/L	90
9) Freon 113	6.950	101	94296	12.1510	ug/L	84
10) 1,1-Dichloroethene	7.068	96	88596	12.0188	ug/L	# 86
11) Acetone	7.187	43	56650	8.8812	ug/L	88
12) Isopropanol	7.266	45	139291	134.5293	ug/L	91
13) Iodomethane	7.404	142	11488	6.5091	ug/L	89
14) Carbon Disulfide	7.483	76	307157	10.2730	ug/L	98
15) Methylene Chloride	7.877	84	127509	12.9529	ug/L	98
16) tert-Butyl Alcohol (TBA)	7.857	59	82436	63.8890	ug/L	87
17) MTBE	8.104	73	314718	12.1345	ug/L	94
18) trans-1,2-Dichloroethene	8.212	96	102413	11.9301	ug/L	94
19) n-Hexane	8.439	57	110090	15.4566	ug/L	99
20) Isopropyl Ether (DIPE)	8.735	45	559738	14.3511	ug/L	97
21) Vinyl Acetate	8.833	43	376272	15.1530	ug/L	100
22) 1,1-Dichloroethane	8.893	63	221950	12.8778	ug/L	97
23) ETBE	9.267	59	403772	13.1155	ug/L	93
24) 2,2-Dichloropropane	9.721	77	151001	12.7779	ug/L	95
25) cis-1,2-Dichloroethene	9.750	96	118264	12.7568	ug/L	98
26) 2-Butanone	9.721	43	95582	12.3492	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\012619\
 Data File : JAQ03.D
 Acq On : 26 Jan 2019 9:58 am
 Operator :
 Sample : ccv/bs,qc962718,267281,s39081,20000X,s39228,
 Misc : .005/100,s39033,.005/100,s36178,.005/100
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 26 13:57:17 2019
 Quant Method : G:\msvoa10\012619\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
27) Bromochloromethane	10.125	128	54051	12.2362	ug/L	# 81
28) Tetrahydrofuran	10.115	42	571199	147.5793	ug/L	97
29) Chloroform	10.164	83	199672	11.4880	ug/L	98
31) 1,1,1-Trichloroethane	10.450	97	140856	11.4742	ug/L	97
33) Carbon Tetrachloride	10.648	117	110665	10.1290	ug/L	97
34) 1,1-Dichloropropene	10.677	75	154821	12.0711	ug/L	95
35) Benzene	11.003	78	441061	12.3741	ug/L	99
37) TAME	10.993	73	350156	12.1605	ug/L	98
38) 1,2-Dichloroethane	11.111	62	158020	11.0182	ug/L	98
39) Trichloroethene	11.939	95	109153	11.4607	ug/L	95
41) 1,2-Dichloropropane	12.353	63	144284	13.9609	ug/L	95
42) Dibromomethane	12.551	93	83940	12.3026	ug/L	89
43) _1,4-Dioxane	0.000	88	0	N.D.		
44) Bromodichloromethane	12.708	83	148238	11.1064	ug/L	96
45) 2-Chloroethylvinylether	13.053	63	55840	11.3814	ug/L	98
46) Tetramethyl THF	13.251	43	330412	13.8307	ug/L	98
47) cis-1,3-Dichloropropene	13.320	75	209730	12.9086	ug/L	98
48) 4-Methyl-2-Pentanone	13.458	43	185757	12.1713	ug/L	91
51) Toluene	13.744	91	410954	11.9182	ug/L	98
52) trans-1,3-Dichloropropene	14.079	75	174859	11.2695	ug/L	97
53) 1,1,2-Trichloroethane	14.345	85	60764	12.3048	ug/L	96
54) Tetrachloroethene	14.454	166	81930	11.3425	ug/L	93
55) 2-Hexanone	14.562	43	135641	11.7342	ug/L	93
56) 1,3-Dichloropropane	14.592	76	194101	12.5581	ug/L	98
57) Dibromochloromethane	14.868	129	100851	10.3255	ug/L	95
58) 1,2-Dibromoethane	15.065	107	112687	12.0611	ug/L	98
59) 1-Chlorohexane	15.459	91	164626	13.9022	ug/L	93
60) Chlorobenzene	15.617	112	253341	11.7281	ug/L	96
61) Ethylbenzene	15.656	91	464398	11.9772	ug/L	99
62) 1,1,1,2-Tetrachloroethane	15.696	131	87092	11.1082	ug/L	89
63) m,p-Xylenes	15.795	106	336987	23.5872	ug/L	91
64) o-Xylene	16.297	106	166781	12.0677	ug/L	99
65) Styrene	16.317	104	282782	11.8399	ug/L	98
66) Bromoform	16.633	173	63775	10.0497	ug/L	95
68) Isopropylbenzene	16.682	105	414884	11.5367	ug/L	99
70) 1,1,2,2-Tetrachloroethane	17.096	83	152121	12.5165	ug/L	97
71) Propylbenzene	17.155	91	567258	12.6571	ug/L	99
72) Bromobenzene	17.165	156	98825	11.5557	ug/L	93
73) 1,2,3-Trichloropropane	17.195	75	142173	13.5042	ug/L	# 69
74) 1,3,5-Trimethylbenzene	17.333	105	330283	11.6216	ug/L	100
75) 2-Chlorotoluene	17.333	91	360975	12.0972	ug/L	98
76) 4-Chlorotoluene	17.461	91	331470	12.1030	ug/L	97
77) tert-Butylbenzene	17.707	119	285603	11.7638	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : G:\msvoa10\012619\
 Data File : JAQ03.D
 Acq On : 26 Jan 2019 9:58 am
 Operator :
 Sample : ccv/bs,qc962718,267281,s39081,20000X,s39228,
 Misc : .005/100,s39033,.005/100,s36178,.005/100
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 26 13:57:17 2019
 Quant Method : G:\msvoa10\012619\8260X10W.M
 Quant Title : MSVOA10 MSVOA WATER
 QLast Update : Fri Jan 18 17:34:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
78) 1,2,4-Trimethylbenzene	17.776	105	312438	11.4817	ug/L	97
79) sec-Butylbenzene	17.954	105	465126	12.1802	ug/L	98
80) para-Isopropyl Toluene	18.092	119	312124	11.2133	ug/L	100
81) 1,3-Dichlorobenzene	18.200	146	174216	11.5043	ug/L	94
82) 1,4-Dichlorobenzene	18.309	146	179000	11.7269	ug/L	96
83) n-Butylbenzene	18.575	91	300378	11.9166	ug/L	98
84) 1,2-Dichlorobenzene	18.782	146	173832	11.8324	ug/L	97
85) 1,2-Dibromo-3-Chloropropane	19.778	75	27545	10.5150	ug/L	88
86) 1,2,4-Trichlorobenzene	20.912	180	68376	10.9076	ug/L	88
87) Hexachlorobutadiene	21.010	225	29296	10.7988	ug/L	97
88) Naphthalene	21.356	128	187414	10.2616	ug/L	99
89) 1,2,3-Trichlorobenzene	21.760	180	67300	10.8733	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 306574

ANALYTICAL REPORT

Semivolatile Organics by GC/MS SIM

TRC Solutions Inc. 505 Sansome St San Francisco, CA 94111	Project : 285830.02A.01 Location : Riley Soil Investigation Level : IV
---	--

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	306574-001
BR11-1GW02	306574-002
BR11-1GW03	306574-003
DUP01182019-01	306574-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 02/05/2019

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE
SEMIVOLATILE ORGANICS BY GC/MS SIM (EPA 8270C-SIM)

Laboratory number: 306574
Client: TRC Solutions Inc.
Project: 285830.02A.01
Location: Riley Soil Investigation
Request Date: 01/18/19
Samples Received: 01/18/19

This data package contains sample and QC results for four water samples, requested for the above referenced project on 01/18/19. See attached cooler receipt form for any sample receipt problems or discrepancies.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

No analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 306574
 Date Received: 1/18/19

Client: TRE
 Project: _____

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun # A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 1/18/19 By (print) AC (sign) [Signature]
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 4.2, #2: 4.9, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	/		
Were Method 5035 sampling containers present?			/
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm absent in VOA samples?		/	
Was the client contacted concerning this sample delivery?		/	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			/
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6: Explanations/Comments: X Sample 5 1/1 VO2's arrived with bubbles

Date Logged In 1/18/19 By (print) AC (sign) [Signature]
 Date Labeled 1/19/19 By (print) AC (sign) [Signature]

Results & QC Summary

Semivolatile Organics by GC/MS SIM

Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1GW01	Batch#:	267157
Lab ID:	306574-001	Sampled:	01/18/19
Matrix:	Water	Received:	01/18/19
Units:	ug/L	Prepared:	01/22/19
Diln Fac:	1.000	Analyzed:	02/04/19

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	85	58-134
2-Fluorobiphenyl	81	53-120
Terphenyl-d14	89	18-128

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1GW02	Batch#:	267157
Lab ID:	306574-002	Sampled:	01/18/19
Matrix:	Water	Received:	01/18/19
Units:	ug/L	Prepared:	01/22/19
Diln Fac:	1.000	Analyzed:	02/04/19

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	80	58-134
2-Fluorobiphenyl	74	53-120
Terphenyl-d14	60	18-128

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Field ID:	BR11-1GW03	Batch#:	267157
Lab ID:	306574-003	Sampled:	01/18/19
Matrix:	Water	Received:	01/18/19
Units:	ug/L	Prepared:	01/22/19
Diln Fac:	1.000	Analyzed:	02/04/19

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	75	58-134
2-Fluorobiphenyl	66	53-120
Terphenyl-d14	37	18-128

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Field ID:	DUP01182019-01	Batch#:	267157
Lab ID:	306574-004	Sampled:	01/18/19
Matrix:	Water	Received:	01/18/19
Units:	ug/L	Prepared:	01/22/19
Diln Fac:	1.000	Analyzed:	02/04/19

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	86	58-134
2-Fluorobiphenyl	79	53-120
Terphenyl-d14	85	18-128

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC962225	Batch#:	267157
Matrix:	Water	Prepared:	01/22/19
Units:	ug/L	Analyzed:	01/23/19

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	91	58-134
2-Fluorobiphenyl	66	53-120
Terphenyl-d14	77	18-128

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8270C-SIM
Matrix:	Water	Batch#:	267157
Units:	ug/L	Prepared:	01/22/19
Diln Fac:	1.000	Analyzed:	01/23/19

Type: BS Lab ID: QC962226

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	1.000	0.9191	92	69-120
Pyrene	1.000	1.020	102	69-123

Surrogate	%REC	Limits
Nitrobenzene-d5	97	58-134
2-Fluorobiphenyl	71	53-120
Terphenyl-d14	79	18-128

Type: BSD Lab ID: QC962227

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	1.000	1.011	101	69-120	9	21
Pyrene	1.000	1.111	111	69-123	9	32

Surrogate	%REC	Limits
Nitrobenzene-d5	106	58-134
2-Fluorobiphenyl	78	53-120
Terphenyl-d14	88	18-128

RPD= Relative Percent Difference

ENTHALPY INITIAL CALIBRATION FOR 306574 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA03
 Calnum : 529010667001
 Units : ug/mL

Name : 3PAHSIM
 Date : 07-JAN-2019 13:00
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	va707	529010667007	ICAL	07-JAN-2019 13:00	S38722
L2	va708	529010667008	ICAL	07-JAN-2019 13:32	S38723
L3	va709	529010667009	ICAL	07-JAN-2019 14:04	S38724
L4	va710	529010667010	ICAL	07-JAN-2019 14:35	S38725
L5	va711	529010667011	ICAL	07-JAN-2019 15:07	S38726
L6	va712	529010667012	ICAL	07-JAN-2019 15:39	S38727
L7	va713	529010667013	ICAL	07-JAN-2019 16:10	S38728

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r ² %RSD	Max %RSD	Min RF	Min r ²	Flg
Naphthalene	1.0393	0.9898	1.0004	0.9992	0.9489	0.8821	0.8449	AVRG		1.04406		0.9578	7	15	0.05	0.99	
Acenaphthylene	1.7728	1.7616	1.8277	1.8676	1.7767	1.6457	1.5790	AVRG		0.57231		1.7473	6	15	0.05	0.99	
Acenaphthene	1.1561	1.1533	1.1676	1.1903	1.1218	1.0581	1.0423	AVRG		0.88725		1.1271	5	15	0.05	0.99	
Fluorene	1.4807	1.4693	1.4610	1.4642	1.3775	1.2897	1.2497	AVRG		0.71486		1.3989	7	15	0.05	0.99	
Phenanthrene	1.0133	1.0234	1.0164	1.0122	0.9606	0.8789	0.8417	AVRG		1.03757		0.9638	8	15	0.05	0.99	
Anthracene	0.8987	0.9137	0.9369	0.9742	0.9385	0.8580	0.8170	AVRG		1.10461		0.9053	6	15	0.05	0.99	
Fluoranthene	1.2100	1.2280	1.2300	1.2327	1.1712	1.0717	1.0216	AVRG		0.85730		1.1664	7	15	0.05	0.99	
Pyrene	1.3761m	1.3566m	1.3607m	1.3832m	1.3291m	1.2070m	1.1680m	AVRG		0.76247		1.3115	7	15	0.05	0.99	
Benzo(a)anthracene	1.2245	1.2331	1.2728	1.2977	1.2421	1.1437	1.1065	AVRG		0.82156		1.2172	6	15	0.05	0.99	
Chrysene	1.1715	1.1831	1.1899	1.2220	1.1746	1.0598	0.9991	AVRG		0.87500		1.1429	7	15	0.05	0.99	
Benzo(b)fluoranthene	1.2680	1.2779	1.3355	1.3660	1.3534	1.2753	1.2694	AVRG		0.76541		1.3065	3	15	0.05	0.99	
Benzo(k)fluoranthene	1.2112	1.2649	1.2628	1.2893	1.2596	1.1852	1.1511	AVRG		0.81168		1.2320	4	15	0.05	0.99	
Benzo(a)pyrene	1.0654	1.0859	1.1256	1.1495	1.1616	1.1095	1.1011	AVRG		0.89758		1.1141	3	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.1631	1.1800	1.2209	1.2513	1.2292	1.1818	1.2050	AVRG		0.83024		1.2045	3	15	0.05	0.99	
Dibenz(a,h)anthracene	0.9440	0.9717	0.9890	1.0166	1.0145	0.9881	1.0071	AVRG		1.00995		0.9901	3	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9740	0.9705	0.9937	1.0017	0.9679	0.9139	0.9085	AVRG		1.04008		0.9615	4	15	0.05	0.99	
Nitrobenzene-d5	0.3388	0.3280	0.3384	0.3485	0.3420	0.3273	0.3290	AVRG		2.97619		0.3360	2	15	0.05	0.99	
2-Fluorobiphenyl	2.0164	1.9454	1.9070	1.8963	1.7407	1.6008	1.5285	AVRG		0.55402		1.8050	10	15	0.05	0.99	
Terphenyl-d14	1.1779	1.1595	1.1452	1.1643	1.1193	1.0368	1.0187	AVRG		0.89497		1.1174	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.1000	9	0.2000	3	0.5000	4	1.0000	4	2.0000	-1	5.0000	-8	10.000	-12
Acenaphthylene	0.1000	1	0.2000	1	0.5000	5	1.0000	7	2.0000	2	5.0000	-6	10.000	-10
Acenaphthene	0.1000	3	0.2000	2	0.5000	4	1.0000	6	2.0000	0	5.0000	-6	10.000	-8
Fluorene	0.1000	6	0.2000	5	0.5000	4	1.0000	5	2.0000	-2	5.0000	-8	10.000	-11
Phenanthrene	0.1000	5	0.2000	6	0.5000	5	1.0000	5	2.0000	0	5.0000	-9	10.000	-13
Anthracene	0.1000	-1	0.2000	1	0.5000	3	1.0000	8	2.0000	4	5.0000	-5	10.000	-10
Fluoranthene	0.1000	4	0.2000	5	0.5000	5	1.0000	6	2.0000	0	5.0000	-8	10.000	-12
Pyrene	0.1000	5	0.2000	3	0.5000	4	1.0000	5	2.0000	1	5.0000	-8	10.000	-11
Benzo(a)anthracene	0.1000	1	0.2000	1	0.5000	5	1.0000	7	2.0000	2	5.0000	-6	10.000	-9
Chrysene	0.1000	3	0.2000	4	0.5000	4	1.0000	7	2.0000	3	5.0000	-7	10.000	-13
Benzo(b)fluoranthene	0.1000	-3	0.2000	-2	0.5000	2	1.0000	5	2.0000	4	5.0000	-2	10.000	-3
Benzo(k)fluoranthene	0.1000	-2	0.2000	3	0.5000	2	1.0000	5	2.0000	2	5.0000	-4	10.000	-7
Benzo(a)pyrene	0.1000	-4	0.2000	-3	0.5000	1	1.0000	3	2.0000	4	5.0000	0	10.000	-1
Indeno(1,2,3-cd)pyrene	0.1000	-3	0.2000	-2	0.5000	1	1.0000	4	2.0000	2	5.0000	-2	10.000	0
Dibenz(a,h)anthracene	0.1000	-5	0.2000	-2	0.5000	0	1.0000	3	2.0000	2	5.0000	0	10.000	2
Benzo(g,h,i)perylene	0.1000	1	0.2000	1	0.5000	3	1.0000	4	2.0000	1	5.0000	-5	10.000	-6
Nitrobenzene-d5	0.1000	1	0.2000	-2	0.5000	1	1.0000	4	2.0000	2	5.0000	-3	10.000	-2
2-Fluorobiphenyl	0.1000	12	0.2000	8	0.5000	6	1.0000	5	2.0000	-4	5.0000	-11	10.000	-15
Terphenyl-d14	0.1000	5	0.2000	4	0.5000	2	1.0000	4	2.0000	0	5.0000	-7	10.000	-9

YW1 01/08/19 [1,4-Dioxane]: Corrected automatically drawn baseline in all levels.

YW1 01/08/19 [1-Methylnaphthalene]: Picked or reassigned peak in all levels.

YW1 01/08/19 [Pyrene]: Picked or reassigned peak in all levels.

Analyst: YW1

Date: 01/08/19

Reviewer: LW

Date: 01/08/19

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRГ=Average response factor

Page 2 of 2

529010667001

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03
Calnum : 529010667001

Name : 3PAHSIM
Cal Date : 07-JAN-2019

ICV 529010667014 (va714 07-JAN-2019) stds: S38459

Analyte	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.000	0.9860	ug/mL	-1	30	
Acenaphthylene	1.000	0.9667	ug/mL	-3	30	
Acenaphthene	1.000	0.9106	ug/mL	-9	20	
Fluorene	1.000	0.9519	ug/mL	-5	30	
Phenanthrene	1.000	1.030	ug/mL	3	30	
Anthracene	1.000	1.021	ug/mL	2	30	
Fluoranthene	1.000	1.045	ug/mL	4	20	
Pyrene	1.000	1.015	ug/mL	1	30	
Benzo(a)anthracene	1.000	1.006	ug/mL	1	30	
Chrysene	1.000	1.030	ug/mL	3	30	
Benzo(b)fluoranthene	1.000	1.011	ug/mL	1	30	
Benzo(k)fluoranthene	1.000	1.041	ug/mL	4	30	
Benzo(a)pyrene	1.000	1.054	ug/mL	5	20	
Indeno(1,2,3-cd)pyrene	1.000	1.046	ug/mL	5	30	
Dibenz(a,h)anthracene	1.000	1.041	ug/mL	4	30	
Benzo(g,h,i)perylene	1.000	1.112	ug/mL	11	30	

ECI: 01/07/19 * YW1: 01/08/19 LW: 01/08/19

ENTHALPY CONTINUING CALIBRATION FOR 306574 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 529033718003 File : van03 Time : 23-JAN-2019 10:42
 Cal : 529010667001 Caldate : 07-JAN-2019
 Standards: S38726

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	0.9578	1.0380	2.000	2.168	ug/mL	8	30	0.0500	
Acenaphthylene	1.7473	1.8959	2.000	2.170	ug/mL	9	30	0.0500	
Acenaphthene	1.1271	1.1681	2.000	2.073	ug/mL	4	20	0.0500	
Fluorene	1.3989	1.4159	2.000	2.024	ug/mL	1	30	0.0500	
Phenanthrene	0.9638	1.0047	2.000	2.085	ug/mL	4	30	0.0500	
Anthracene	0.9053	0.9980	2.000	2.205	ug/mL	10	30	0.0500	
Fluoranthene	1.1664	1.1297	2.000	1.937	ug/mL	-3	20	0.0500	
Pyrene	1.3115	1.5453	2.000	2.356	ug/mL	18	30	0.0500	
Benzo(a)anthracene	1.2172	1.2731	2.000	2.092	ug/mL	5	30	0.0500	
Chrysene	1.1429	1.2282	2.000	2.149	ug/mL	7	30	0.0500	
Benzo(b)fluoranthene	1.3065	1.2613	2.000	1.931	ug/mL	-3	30	0.0500	
Benzo(k)fluoranthene	1.2320	1.3080	2.000	2.123	ug/mL	6	30	0.0500	
Benzo(a)pyrene	1.1141	1.1761	2.000	2.111	ug/mL	6	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2045	1.2322	2.000	2.046	ug/mL	2	30	0.0500	
Dibenz(a,h)anthracene	0.9901	0.9958	2.000	2.011	ug/mL	1	30	0.0500	
Benzo(g,h,i)perylene	0.9615	0.9602	2.000	1.997	ug/mL	0	30	0.0500	
Nitrobenzene-d5	0.3360	0.4677	2.000	2.784	ug/mL	39	30	0.0500	c+
2-Fluorobiphenyl	1.8050	1.7113	2.000	1.896	ug/mL	-5	30	0.0500	
Terphenyl-d14	1.1174	1.2350	2.000	2.211	ug/mL	11	30	0.0500	

YW1 01/23/19 [1,4-Dioxane]: Corrected automatically drawn baseline.

Analyst: YW1 Date: 01/23/19 Reviewer: ECI Date: 01/23/19

+=high bias c=CCV

ENTHALPY CONTINUING CALIBRATION FOR 306574 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03
Seqnum : 529050994006
Cal : 529010667001
Standards: S38725

Run Name : CCV
File : vb406
Caldate : 07-JAN-2019

IDF : 1.0
Time : 04-FEB-2019 11:43

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	0.9578	1.0762	1.000	1.124	ug/mL	12	30	0.0500	
Acenaphthylene	1.7473	1.9410	1.000	1.111	ug/mL	11	30	0.0500	
Acenaphthene	1.1271	1.2878	1.000	1.143	ug/mL	14	20	0.0500	
Fluorene	1.3989	1.5514	1.000	1.109	ug/mL	11	30	0.0500	
Phenanthrene	0.9638	1.0306	1.000	1.069	ug/mL	7	30	0.0500	
Anthracene	0.9053	1.0197	1.000	1.126	ug/mL	13	30	0.0500	
Fluoranthene	1.1664	1.2351	1.000	1.059	ug/mL	6	20	0.0500	
Pyrene	1.3115	1.4996	1.000	1.143	ug/mL	14	30	0.0500	
Benzo(a)anthracene	1.2172	1.2256	1.000	1.007	ug/mL	1	30	0.0500	
Chrysene	1.1429	1.1753	1.000	1.028	ug/mL	3	30	0.0500	
Benzo(b)fluoranthene	1.3065	1.2428	1.000	0.9512	ug/mL	-5	30	0.0500	
Benzo(k)fluoranthene	1.2320	1.2527	1.000	1.017	ug/mL	2	30	0.0500	
Benzo(a)pyrene	1.1141	1.1563	1.000	1.038	ug/mL	4	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2045	1.2989	1.000	1.078	ug/mL	8	30	0.0500	
Dibenz(a,h)anthracene	0.9901	1.0287	1.000	1.039	ug/mL	4	30	0.0500	
Benzo(g,h,i)perylene	0.9615	1.0290	1.000	1.070	ug/mL	7	30	0.0500	
Nitrobenzene-d5	0.3360	0.3824	1.000	1.138	ug/mL	14	30	0.0500	
2-Fluorobiphenyl	1.8050	1.8517	1.000	1.026	ug/mL	3	30	0.0500	
Terphenyl-d14	1.1174	1.1459	1.000	1.026	ug/mL	3	30	0.0500	

Analyst: ECI

Date: 02/04/19

Reviewer: LW

Date: 02/04/19

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 529033718

Date : 01/23/19
 Sequence : MSBNA03 van

Reference : van03
 Analyzed : 01/23/19 10:42

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+CCV/BS+CCV/LCS+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	21512	7.43	83666	9.07	46943	11.38	93369	13.35	68125	16.83	63350	18.57
		LOWER LIMIT	10756	6.93	41833	8.57	23472	10.88	46685	12.85	34063	16.33	31675	18.07
		UPPER LIMIT	43024	7.93	167332	9.57	93886	11.88	186738	13.85	136250	17.33	126700	19.07
003	CCV	CCV	21512	7.43	83666	9.07	46943	11.38	93369	13.35	68125	16.83	63350	18.57
004	BLANK	QC962199	21152	7.43	85149	9.06	48973	11.38	96288	13.34	78262	16.82	72140	18.57
005	LCS	QC962200	21019	7.43	82863	9.07	47257	11.38	95797	13.34	76191	16.83	71680	18.56
006	MSS	306579-005	20574	7.43	83003	9.07	48637	11.38	95268	13.34	73908	16.82	67498	18.56
007	SAMPLE	306537-004	20805	7.43	83303	9.06	49198	11.38	96598	13.34	72961	16.82	66905	18.56
008	SAMPLE	306537-005	21324	7.43	85766	9.06	51061	11.38	100312	13.34	64697	16.83	53256	18.57
009	SAMPLE	306537-006	22344	7.43	89008	9.06	52511	11.38	103289	13.34	64139	16.82	57862	18.57
010	SAMPLE	306558-008	21857	7.43	86331	9.06	52156	11.38	101625	13.34	72763	16.82	61860	18.57
011	SAMPLE	306558-009	21411	7.43	72427	9.07	46898	11.38	91982	13.34	67200	16.83	57546	18.57
012	SAMPLE	306558-010	20874	7.43	58926	9.07	41114	11.38	85258	13.34	66524	16.82	57898	18.57
013	SAMPLE	306558-011	21396	7.43	86021	9.06	51303	11.38	101386	13.34	79252	16.82	65895	18.56
014	SAMPLE	306558-012	21200	7.43	83849	9.06	50983	11.38	99988	13.34	68302	16.82	53296	18.57
015	SAMPLE	306558-013	21994	7.43	87073	9.06	52482	11.38	103536	13.34	76325	16.82	60465	18.57
016	SAMPLE	306558-014	22288	7.43	82201	9.06	50690	11.38	97984	13.34	73195	16.83	60475	18.57
017	SAMPLE	306558-015	21238	7.43	77362	9.06	49236	11.38	99132	13.34	75378	16.82	63172	18.57
018	SAMPLE	306558-016	21701	7.43	86383	9.06	52545	11.38	104387	13.34	79342	16.83	64402	18.56
019	BLANK	QC962225	22533	7.43	90975	9.06	53979	11.38	107103	13.34	82860	16.82	70503	18.57
020	BS	QC962226	22802	7.43	90854	9.07	51408	11.38	103826	13.34	79061	16.83	70182	18.57
021	BSD	QC962227	22352	7.43	89176	9.06	50594	11.38	100017	13.34	77276	16.82	66593	18.57
022	SAMPLE	306563-001	22209	7.43	89178	9.07	52562	11.38	101918	13.34	80305	16.82	67700	18.56
023	SAMPLE	306580-004	21878	7.43	86161	9.06	52503	11.38	103114	13.34	74048	16.82	61968	18.57
024	SAMPLE	306580-005	21826	7.43	88182	9.07	52729	11.38	105076	13.34	81356	16.83	69208	18.57

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 529050994

Date : 02/04/19
 Sequence : MSBNA03 vb4

Reference : vb406
 Analyzed : 02/04/19 11:43

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+CCV/BS+CCV/LCS+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	18858	7.40	68247	9.04	39412	11.36	88300	13.32	74054	16.80	71368	18.54
		LOWER LIMIT	9429	6.90	34124	8.54	19706	10.86	44150	12.82	37027	16.30	35684	18.04
		UPPER LIMIT	37716	7.90	136494	9.54	78824	11.86	176600	13.82	148108	17.30	142736	19.04
006	CCV	CCV	18858	7.40	68247	9.04	39412	11.36	88300	13.32	74054	16.80	71368	18.54
007	SAMPLE	306574-001	17915	7.40	70281	9.04	42760	11.35	94065	13.32	78327	16.80	77298	18.54
008	SAMPLE	306574-002	19557	7.40	74808	9.04	43864	11.35	96693	13.32	78988	16.80	81006	18.54
009	SAMPLE	306574-003	18421	7.40	70307	9.04	42403	11.35	92742	13.32	77301	16.80	78814	18.54
010	SAMPLE	306574-004	17430	7.40	66884	9.04	41803	11.36	89419	13.32	73239	16.80	74679	18.54
011	SAMPLE	306798-003	20552	7.40	75393	9.03	45574	11.36	100710	13.32	82338	16.80	82249	18.55
012	SAMPLE	306798-004	20177	7.40	72422	9.03	44344	11.35	100180	13.32	83718	16.80	80966	18.54
013	SAMPLE	306798-005	19782	7.40	72179	9.04	44443	11.35	100032	13.32	83881	16.80	80584	18.54

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 529010667

Instrument : MSBNA03 Begun : 01/07/19 09:47
 Method : EPA 8270C, EPA 8270C-SIM, GC/MS SIM SOP Version : 8270-SIM_rv7, OPP_rv

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	va701	IB	IB			01/07/19 09:47	1.0		?t
002	va702	IB	IB			01/07/19 10:21	1.0		?t
003	va703	TUN	TUNE			01/07/19 10:46	1.0	1	t
004	va704	CCV	RT CHECK			01/07/19 11:06	1.0	2	t
005	va705	CCV	RT CHECK			01/07/19 11:40	1.0	2	t
006	va706	TUN	TUN			01/07/19 12:23	1.0	1	
007	va707	ICAL	ICAL			01/07/19 13:00	1.0	3	
008	va708	ICAL	ICAL			01/07/19 13:32	1.0	4	
009	va709	ICAL	ICAL			01/07/19 14:04	1.0	5	
010	va710	ICAL	ICAL			01/07/19 14:35	1.0	6	
011	va711	ICAL	ICAL			01/07/19 15:07	1.0	7	
012	va712	ICAL	ICAL			01/07/19 15:39	1.0	8	
013	va713	ICAL	ICAL			01/07/19 16:10	1.0	9	
014	va714	ICV	ICV			01/07/19 16:41	1.0	2	
015	va715	ICAL	OPP ICAL			01/07/19 17:12	1.0	10	
016	va716	ICAL	OPP ICAL			01/07/19 17:39	1.0	11	
017	va717	ICAL	OPP ICAL			01/07/19 18:05	1.0	12	
018	va718	ICAL	OPP ICAL			01/07/19 18:32	1.0	13	
019	va719	ICAL	OPP ICAL			01/07/19 19:01	1.0	14	
020	va720	ICAL	OPP ICAL			01/07/19 19:29	1.0	15	
021	va721	ICAL	OPP ICAL			01/07/19 19:55	1.0	16	
022	va722	ICAL	OPP ICAL			01/07/19 20:22	1.0	17	
023	va723	ICV	OPP ICV			01/07/19 20:49	1.0	18	

YW1 01/08/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 23.

Standards used: 1=S39051 2=S38459 3=S38722 4=S38723 5=S38724 6=S38725 7=S38726 8=S38727 9=S38728 10=S39165 11=S39166
 12=S39167 13=S39168 14=S39169 15=S39170 16=S39171 17=S39172 18=S39173

Flags used: ?t=missing tune t=tune failure

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 529033718

Instrument : MSBNA03 Begun : 01/23/19 09:58
 Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv7, bna_rv15

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	van01	IB	IB			01/23/19 09:58	1.0		?t
002	van02	TUN	TUNE			01/23/19 10:23	1.0	1	
003	van03	CCV	CCV			01/23/19 10:42	1.0	2	
004	van04	BLANK	QC962199	Soil	267151	01/23/19 11:15	1.0	3	
005	van05	LCS	QC962200	Soil	267151	01/23/19 11:47	1.0	3	
006	van06	MSS	306579-005	Soil	267151	01/23/19 12:20	10.0	3	
007	van07	SAMPLE	306537-004	Soil	267122	01/23/19 12:53	1.0	3	sh
008	van08	SAMPLE	306537-005	Soil	267122	01/23/19 13:25	1.0	3	sh
009	van09	SAMPLE	306537-006	Soil	267122	01/23/19 13:59	1.0	3	sh
010	van10	SAMPLE	306558-008	Soil	267122	01/23/19 14:32	1.0	3	
011	van11	SAMPLE	306558-009	Soil	267122	01/23/19 15:05	1.0	3	
012	van12	SAMPLE	306558-010	Soil	267122	01/23/19 15:37	1.0	3	
013	van13	SAMPLE	306558-011	Soil	267122	01/23/19 16:09	1.0	3	
014	van14	SAMPLE	306558-012	Soil	267122	01/23/19 16:43	1.0	3	
015	van15	SAMPLE	306558-013	Soil	267122	01/23/19 17:16	1.0	3	
016	van16	SAMPLE	306558-014	Soil	267151	01/23/19 17:48	1.0	3	
017	van17	SAMPLE	306558-015	Soil	267151	01/23/19 18:22	1.0	3	
018	van18	SAMPLE	306558-016	Soil	267151	01/23/19 18:54	1.0	3	
019	van19	BLANK	QC962225	Water	267157	01/23/19 19:27	1.0	3	
020	van20	BS	QC962226	Water	267157	01/23/19 20:02	1.0	3	spk
021	van21	BSD	QC962227	Water	267157	01/23/19 20:35	1.0	3	
022	van22	SAMPLE	306563-001	Water	267157	01/23/19 21:10	1.0	3	spk
023	van23	SAMPLE	306580-004	Soil	267151	01/23/19 21:44	1.0	3	
024	van24	SAMPLE	306580-005	Soil	267151	01/23/19 22:18	1.0	3	

YW1 01/23/19 : DCM lot em58264 used for vialing and dilutions.

ECI 01/23/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 9.

YW1 01/24/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 10 through 24.

Standards used: 1=S38424 2=S38726 3=S38703

Flags used: ?t=missing tune sh=out of sample hold spk=5% spike rule

SAMPLE PREPARATION SUMMARY

Batch #	: 267157		Analysis	: 8270-SIM	
Started By	: EJ1	Prep Date	: 22-JAN-2019 14:58	Finished By	: EJ1
Method	: 3520C	SOP Version	: 8270-SIM_3520_rv7	Units	: mL
Spike #1 ID	: S38879	Spike #2 ID	: S39032		

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
306050-006		Water	500	1	1	0.002	7	1				(rebatched)	See comment 1 below
306558-001		Water	970	1	1	0.001031	7	1				8270-SIM	See comment 2 below
306558-002		Water	970	1	1	0.001031	7	1				8270-SIM	See comment 3 below
306558-003		Water	940	1	1	0.001064	7	1				8270-SIM	See comment 3 below
306563-001		Water	1050	1	1	0.0009524	7	1				8270-SIM	
306574-001		Water	1030	1	1	0.0009709	7	1				8270-SIM	
306574-002		Water	1050	1	1	0.0009524	7	1				8270-SIM	See comment 3 below
306574-003		Water	1000	1	1	0.001	7	1				8270-SIM	See comment 3 below
306574-004		Water	1000	1	1	0.001	7	1				8270-SIM	
306580-001		Water	940	1	1	0.001064	7	1				8270-SIM	See comment 3 below
306580-002		Water	1050	1	1	0.0009524	7	1				8270-SIM	See comment 3 below
306580-003		Water	970	1	1	0.001031	7	1				8270-SIM	See comment 3 below
306607-001		Water	1050	1	1	0.0009524	7	1				8270-SIM	
306633-001		Water	1000	1	1	0.001	7	1				8270-SIM	See comment 4 below
QC962225	BLANK	Water	1000	1	1	0.001		1				8270-SIM	
QC962226	BS	Water	1000	1	1	0.001		1	1			8270-SIM	
QC962227	BSD	Water	1000	1	1	0.001		1	1			8270-SIM	

Comment 1: Prepped 23-JAN-2019 18:10; see CAR #13816, A/O EL1, Limited volume

Comment 2: preserved in HCl, decanted because sediment layer

Comment 3: decanted because sediment layer

Comment 4: Prepped 23-JAN-2019 13:20; A/O EJ1

YW1 01/24/19 : Matrix spikes were not performed for this analysis in batch 267157 due to insufficient sample amount.

Analyst: YW1 Date: 01/24/19 Reviewer: LW Date: 01/24/19

LIMS Batch No: 267157
 LIMS Analysis: 8270-SIM
 Date Extracted: 1/22/19

Extraction Method:
 EPA 3520c cont. L/L

*: decanted b/c sediment layer.

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Confirmed Adjusted pH	Comments
306558-001	E	970	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	preserved in HCl *
2	F	970	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	*
3	E	940	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	*
306563-001	M	1050	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	
5 306574-001	I	1030	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	
2	I	1050	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	*
3	I	1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	*
4	I	1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	
306580-001	F	940	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	*
10 2	E	1050	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	*
3	F	970	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	*
306607-001	K	1050	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	
MB 1X 96225	N/A	1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	
BS 6	I	1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	
15 BSD 7	I	1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	
306633-001	MJ	1000	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	A10 E1 2 1/23/19 @ 13:20
306050-006	F	500	<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	A10 E1 1/23/19 @ 18:10 Limited lot.
			<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	see CAR#13816
			<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	
			<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	
			<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	
			<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	
			<input checked="" type="checkbox"/> 7 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> ≤2 <input type="checkbox"/> ≥11	D2M 1/24/19

MS/MSD not included due to: insufficient volume, or other (reason)

checked sample pH using pH strips - lot # MHC 547770
1.0 mL of surrogate solution was added to all samples
1.0 mL of matrix spiking solution was added to all spikes
 pH of all samples adjusted to pH ≤ 2 (low pH strip lot# MHC 547770) with H₂SO₄
 Cont. L/L extracted with 450mL of CH₂Cl₂
 Extraction Start Time: 14:58 / 13:20 / 18:10
 Extraction End Time: 08:58 / 07:20 / 12:10
 pH of all samples adjusted to pH ≥ 11 (high pH strip lot # NA) with 10 N NaOH
 Extraction Start Time: I
 Extraction End Time: I
 Extracts filtered through baked, CH₂Cl₂-rinsed granular Na₂SO₄
 Concentrated to final volume at temperature (degrees C) 70
 Using thermometer(s) # SN 4155681
 Relinquished to BNA department

Lot# / LIMS # / Time	Date / Initials
MHC 547770	esj 1/22/19
S388790	
S370320	
FC 184668	
EM 58264	
14:58 / 13:20 / 18:10	
08:58 / 07:20 / 12:10	esj 1/23/19
NA	
I	
I	
EM 8917 56558 1/10/19	
70	
SN 4155681	
✓	

1/22/19
 Extraction Chemist [Signature] Date

Continued from Page 70
 Continued on Page 72
 Reviewed by [Signature] Date 1/24/19

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 306574-001 Client ID : BR11-1GW01
 Seqnum : 529050994007 Matrix : Water Acct : TRC-SF (MJD)
 File : vb407 Batch : 267157 Time : 04-FEB-2019 12:22
 Cal : 529010667001 Caldate : 07-JAN-2019
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1030.00 mL --> 1.0 ml = 0.0009709 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.004700	ND	0.1		u
Acenaphthylene	0	ND	0.1		u
Acenaphthene	0.005200	ND	0.1		u
Fluorene	0.002400	ND	0.1		u
Phenanthrene	0.004500	ND	0.1		u
Anthracene	0.001500	ND	0.1		u
Fluoranthene	0.006300	ND	0.1		u
Pyrene	0.01700	ND	0.1		u
Benzo(a)anthracene	0.004400	ND	0.1		u
Chrysene	0.001200	ND	0.1		u
Benzo(b)fluoranthene	0.001100	ND	0.1		u
Benzo(k)fluoranthene	0.001200	ND	0.1		u
Benzo(a)pyrene	0.002500	ND	0.1		u
Indeno(1,2,3-cd)pyrene	0.007600	ND	0.1		u
Dibenz(a,h)anthracene	0	ND	0.1		u
Benzo(g,h,i)perylene	0.009500	ND	0.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.8483	0.9709	0.8236	85	58-134	u
2-Fluorobiphenyl	0.8129	0.9709	0.7892	81	53-120	u
Terphenyl-d14	0.8853	0.9709	0.8595	89	18-128	u

ISTD (CCV vb406)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	68247	70281	2.98	9.04	9.04	0.00
Acenaphthene-d10	39412	42760	8.49	11.36	11.35	-0.01
Phenanthrene-d10	88300	94065	6.53	13.32	13.32	0.00
Chrysene-d12	74054	78327	5.77	16.80	16.80	0.00
Perylene-d12	71368	77298	8.31	18.54	18.54	0.00

5% spike rule

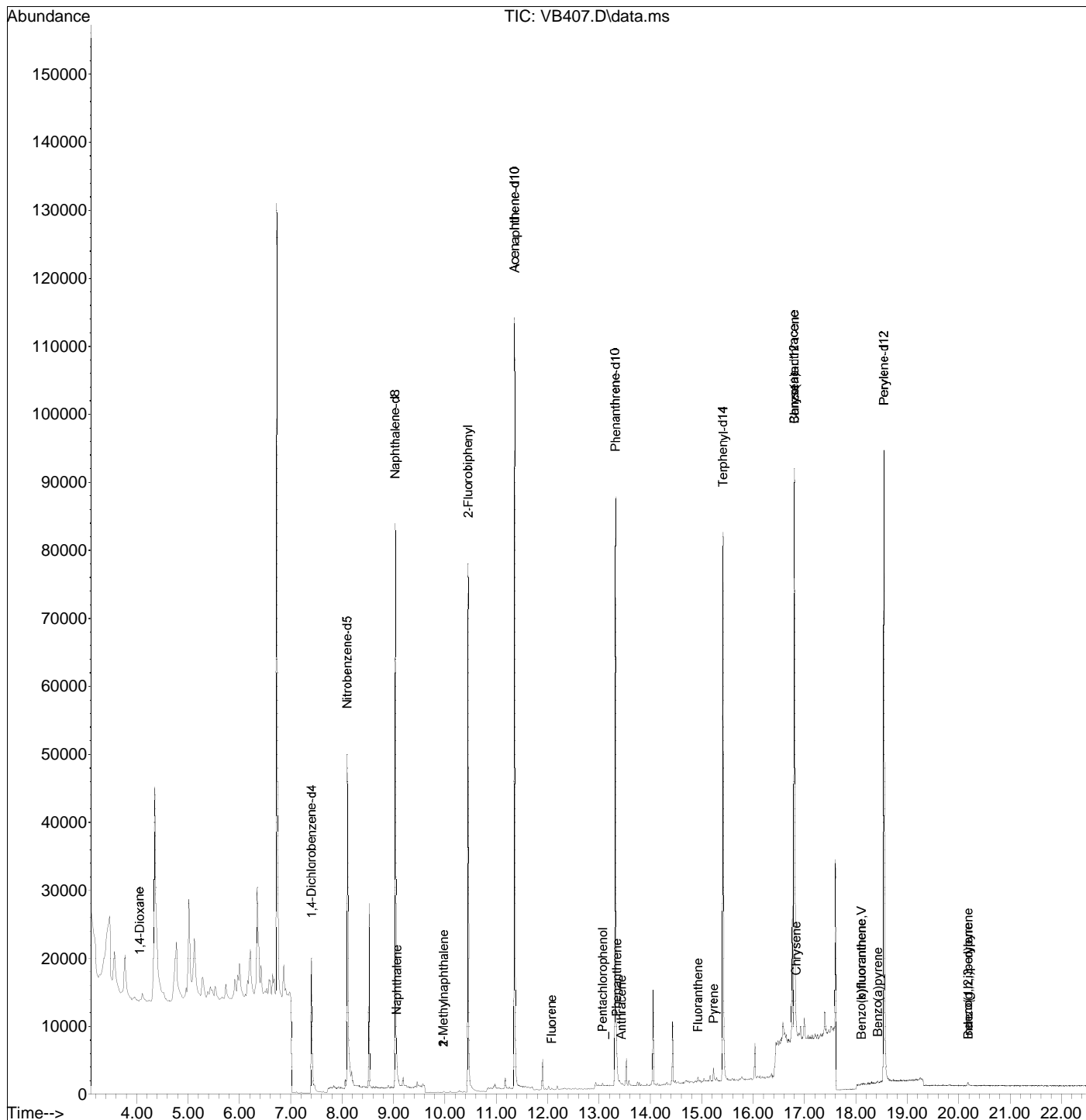
Analyst: ECI Date: 02/04/19 Reviewer: LW Date: 02/04/19

u=use

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\020419\
 Data File : VB407.D
 Acq On : 4 Feb 2019 12:22 pm
 Operator :
 Sample : s,306574-001
 Misc : 267157,1,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 12:45:39 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 29 11:12:04 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\020419\
 Data File : VB407.D
 Acq On : 4 Feb 2019 12:22 pm
 Operator :
 Sample : s,306574-001
 Misc : 267157,1,
 ALS Vial : 7 Sample Multiplier: 1

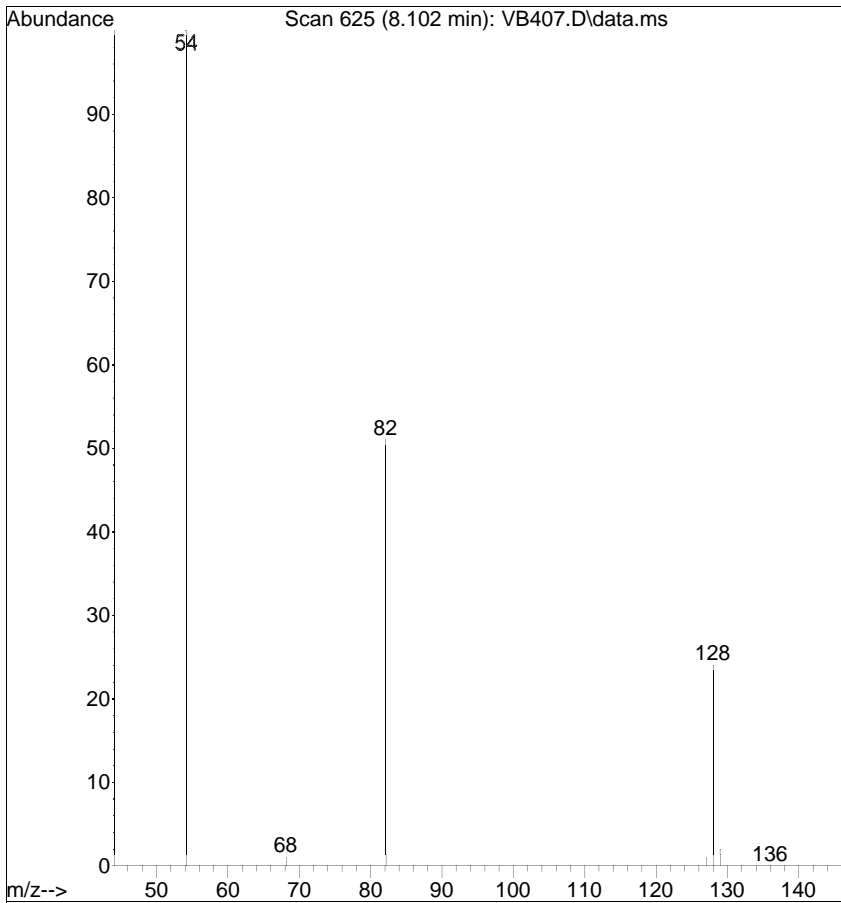
Quant Time: Feb 04 12:45:39 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 29 11:12:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.403	152	17915	1.0000	ug/mL	-0.02
3) Naphthalene-d8	9.035	136	70281	1.0000	ug/mL	-0.03
8) Acenaphthene-d10	11.352	164	42760	1.0000	ug/mL	-0.03
13) Phenanthrene-d10	13.317	188	94065	1.0000	ug/mL	-0.02
18) Chrysene-d12	16.796	240	78327	1.0000	ug/mL	-0.02
23) Perylene-d12	18.541	264	77298	1.0000	ug/mL	-0.02

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	4.056	88	126	0.0195	ug/mL	# 38
4) Nitrobenzene-d5	8.102	82	20033	0.8483	ug/mL	# 1
5) Naphthalene	9.063	128	319	0.0047	ug/mL	# 34
6) 2-Methylnaphthalene	9.974	142	124	0.0023	ug/mL	83
7) 1-Methylnaphthalene	9.974	142	124	0.0027	ug/mL	83
9) 2-Fluorobiphenyl	10.450	172	62744	0.8129	ug/mL	99
10) Acenaphthylene	0.000	152	0	N.D.		
11) Acenaphthene	11.352	154	249	0.0052	ug/mL	# 37
12) Fluorene	12.078	166	144	0.0024	ug/mL	# 60
14) _Pentachlorophenol	13.068	266	288	0.5860	ug/mL	91
15) Phenanthrene	13.347	178	410	0.0045	ug/mL	# 34
16) Anthracene	13.435	178	129	0.0015	ug/mL	# 1
17) Fluoranthene	14.925	202	686	0.0063	ug/mL	69
19) Pyrene	15.226	202	1751	0.0170	ug/mL	83
20) Terphenyl-d14	15.406	244	77477	0.8853	ug/mL	95
21) Benzo(a)anthracene	16.796	228	420	0.0044	ug/mL	# 44
22) Chrysene	16.831	228	111	0.0012	ug/mL	# 1
24) Benzo(b)fluoranthene	18.102	252	111	0.0011	ug/mL	# 1
25) Benzo(k)fluoranthene	18.102	252	111	0.0012	ug/mL	# 1
26) Benzo(a)pyrene	18.421	252	212	0.0025	ug/mL	# 1
27) Indeno(1,2,3-cd)pyrene	20.177	276	708	0.0076	ug/mL	# 1
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
29) Benzo(g,h,i)perylene	20.177	276	708	0.0095	ug/mL	# 25

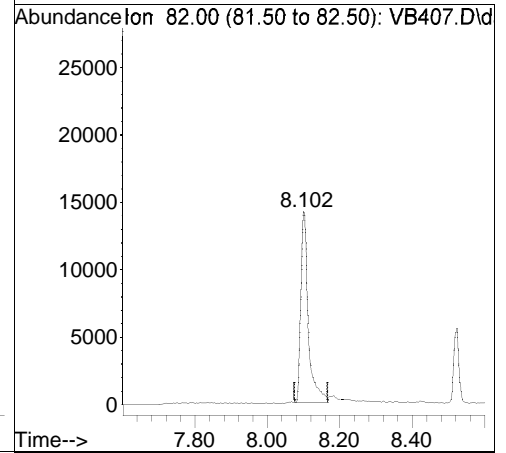
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

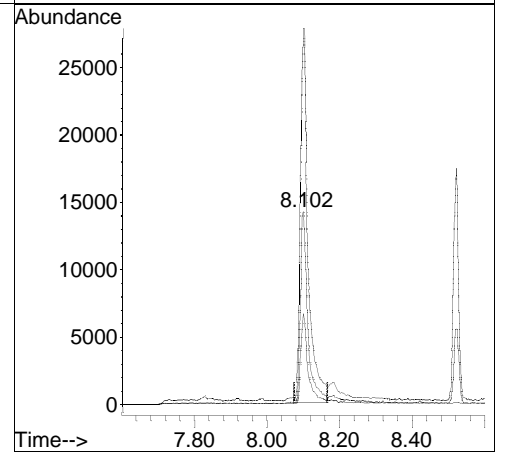
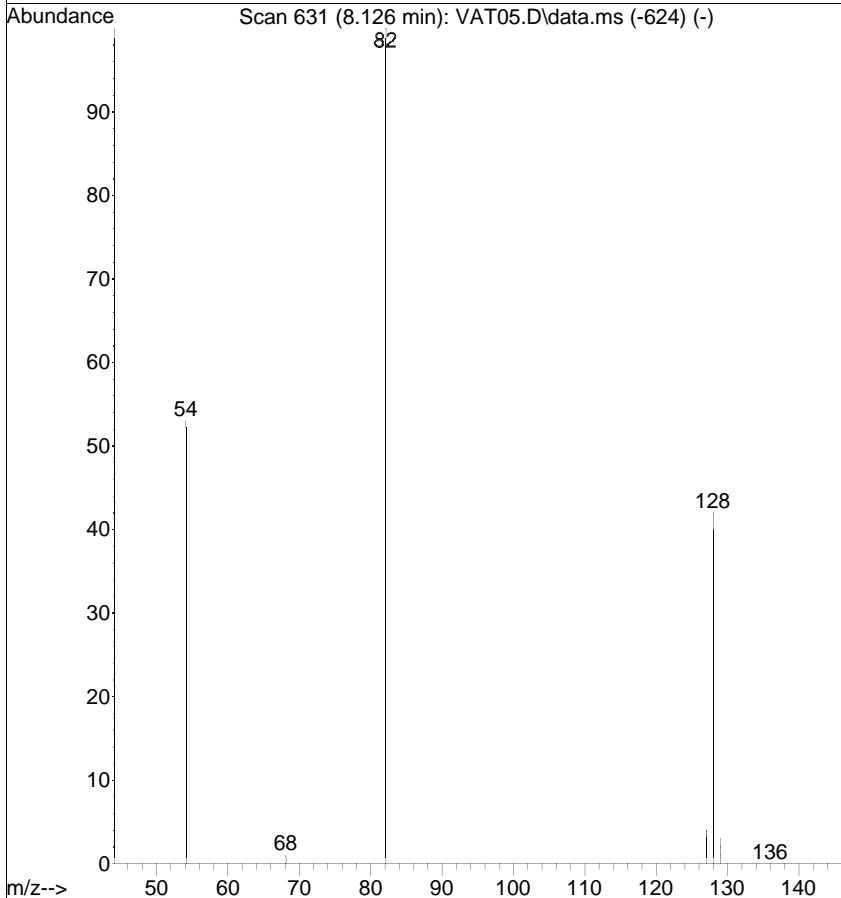


#4
 Nitrobenzene-d5
 Concen: 0.8483 ug/mL
 RT: 8.102 min Scan# 625
 Delta R.T. -0.024 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

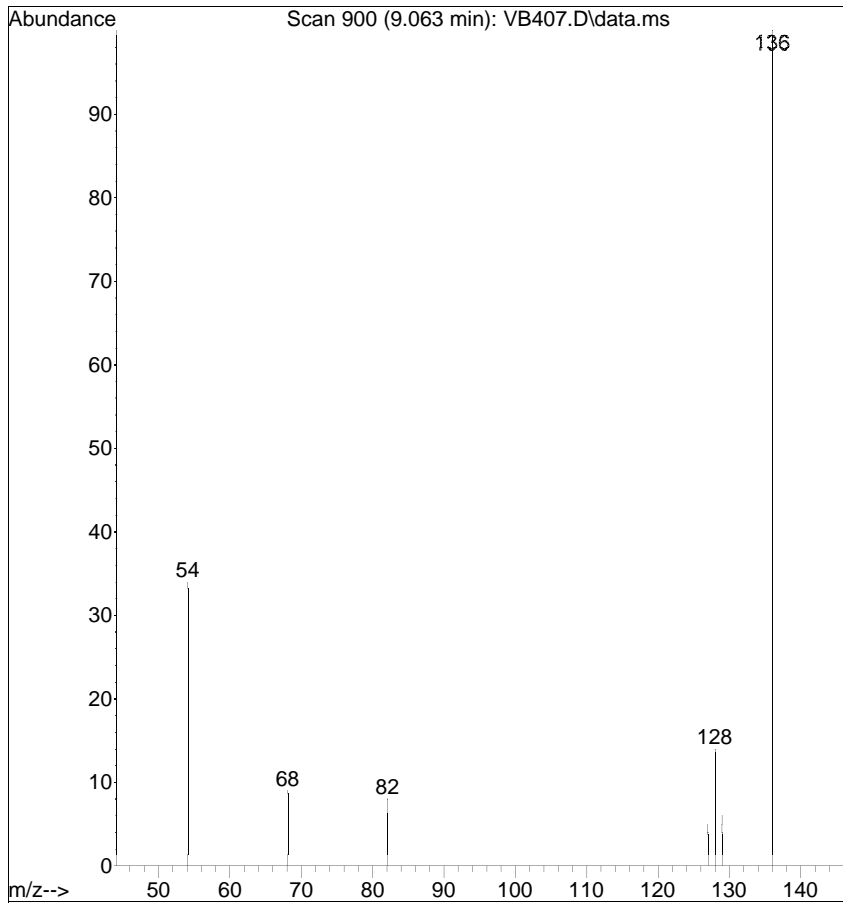
Tgt Ion	Resp	Lower	Upper
82	20033		
128	47.0	10.5	50.5
54	194.5	56.2	96.2#



Ref

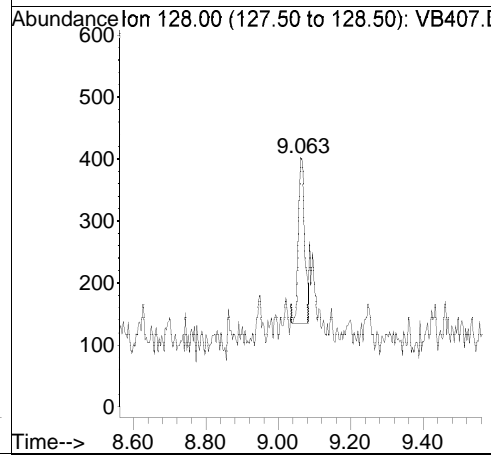


Raw

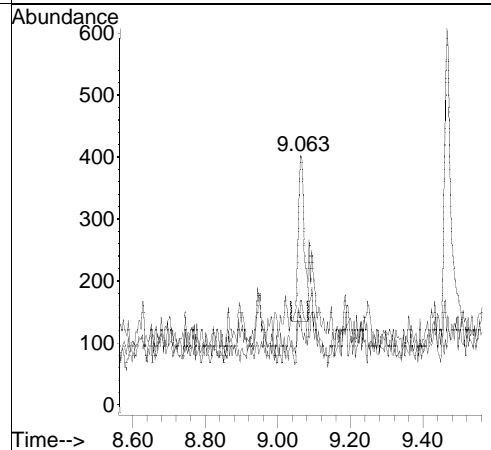
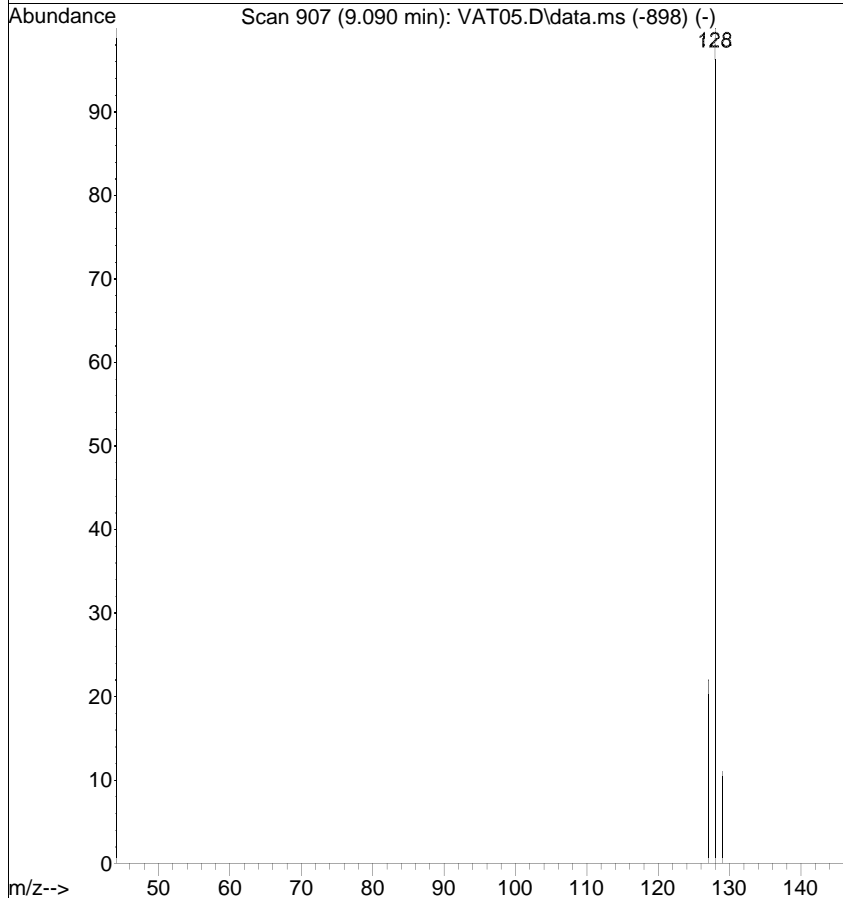


#5
 Naphthalene
 Concen: 0.0047 ug/mL
 RT: 9.063 min Scan# 900
 Delta R.T. -0.028 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

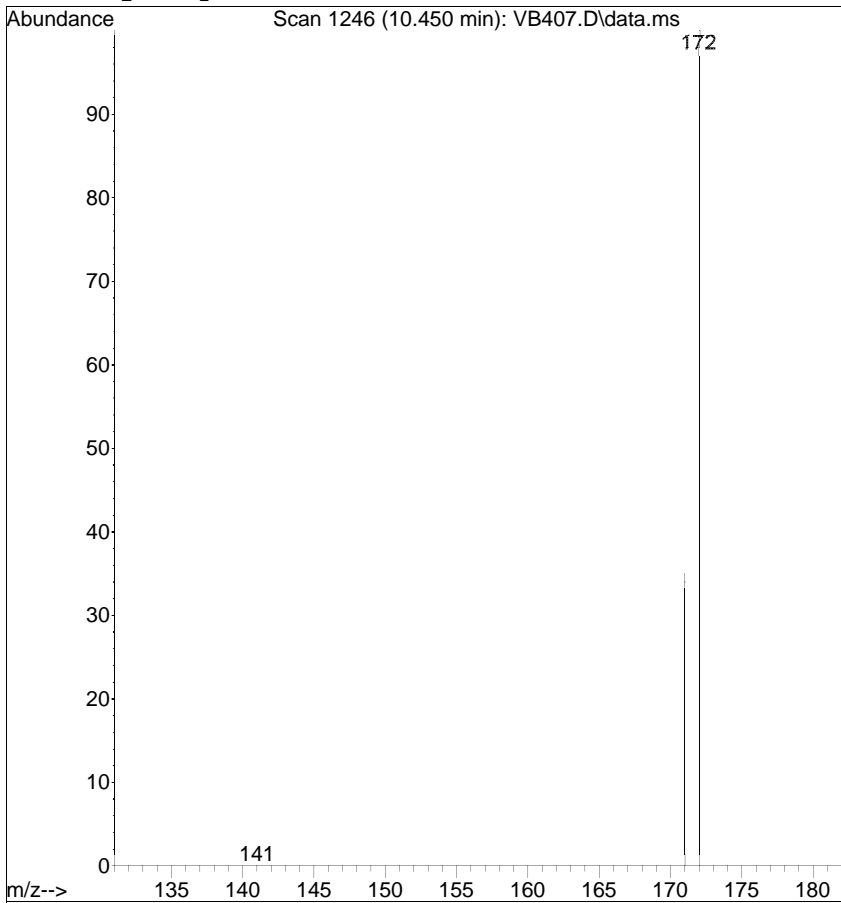
Tgt Ion	Resp	Lower	Upper
128	100		
129	42.0	0.0	31.1#
127	36.1	0.0	34.0#



Ref

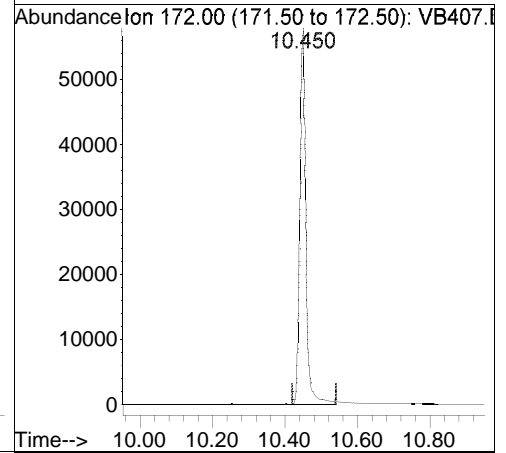


Raw

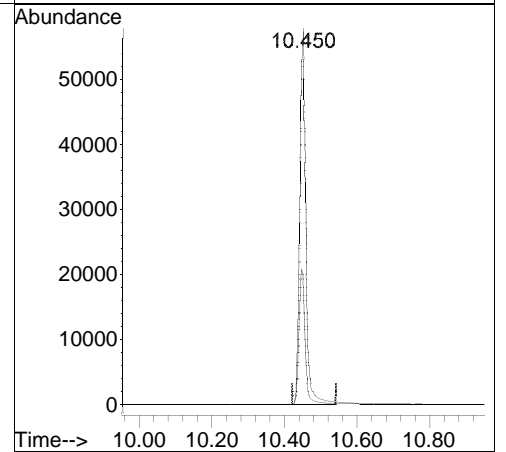
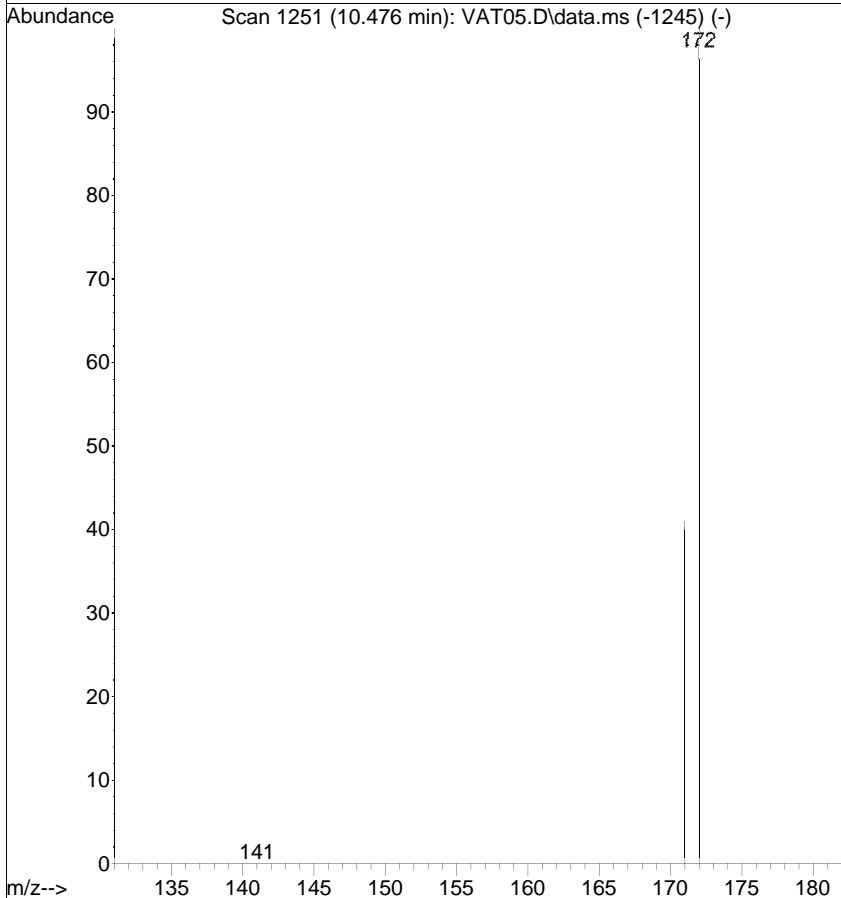


#9
 2-Fluorobiphenyl
 Concen: 0.8129 ug/mL
 RT: 10.450 min Scan# 1246
 Delta R.T. -0.026 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

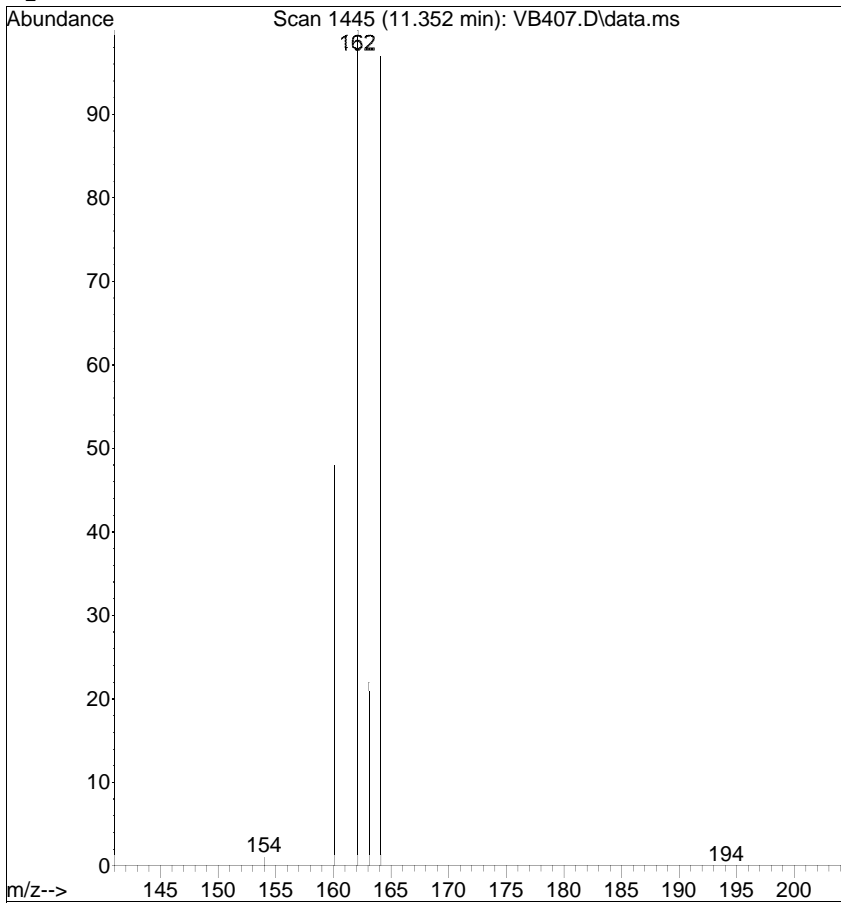
Tgt Ion	Resp	Lower	Upper
172	62744	100	100
171	34.8	14.4	54.4



Ref



Raw

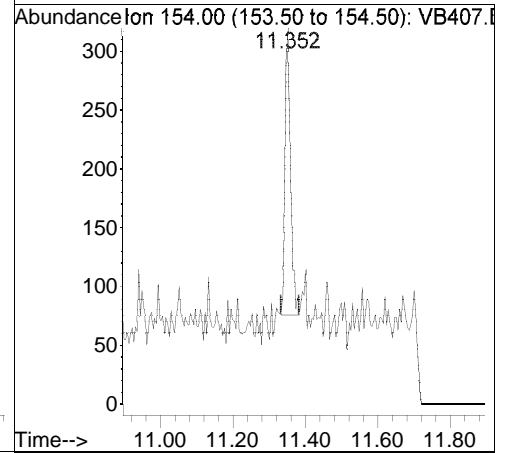


#11

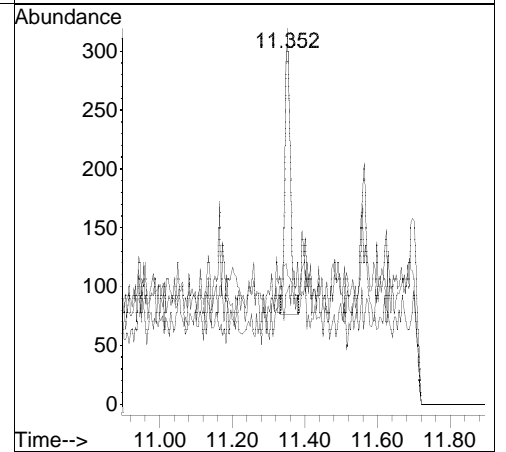
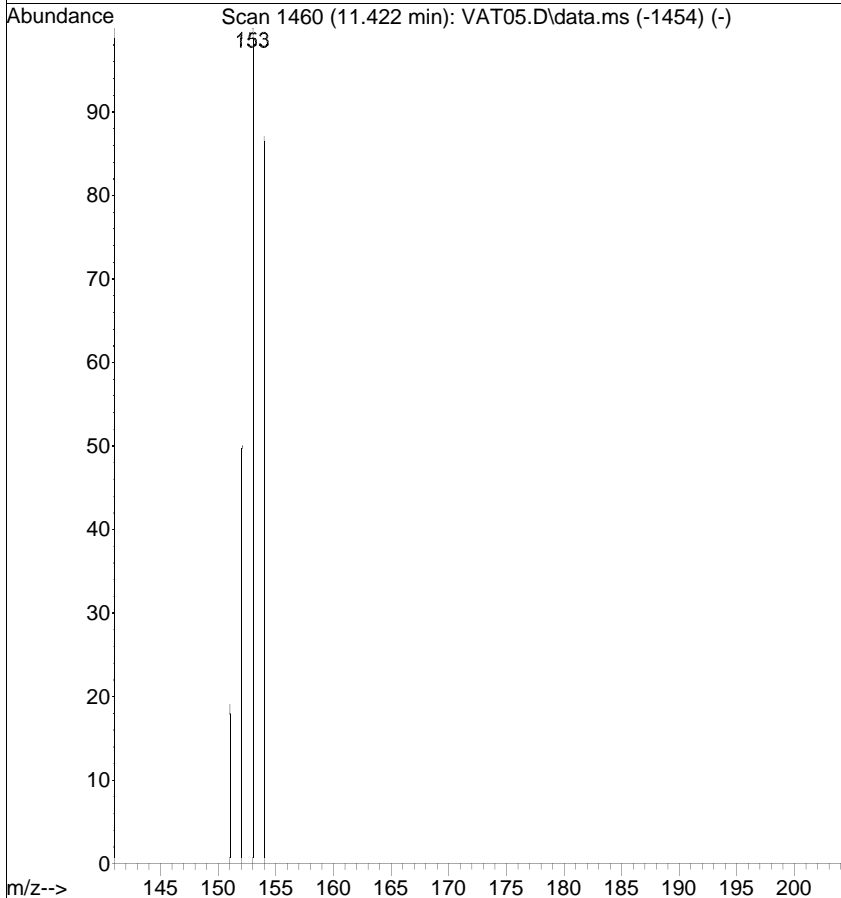
Acenaphthene

Concen: 0.0052 ug/mL
 RT: 11.352 min Scan# 1445
 Delta R.T. -0.071 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

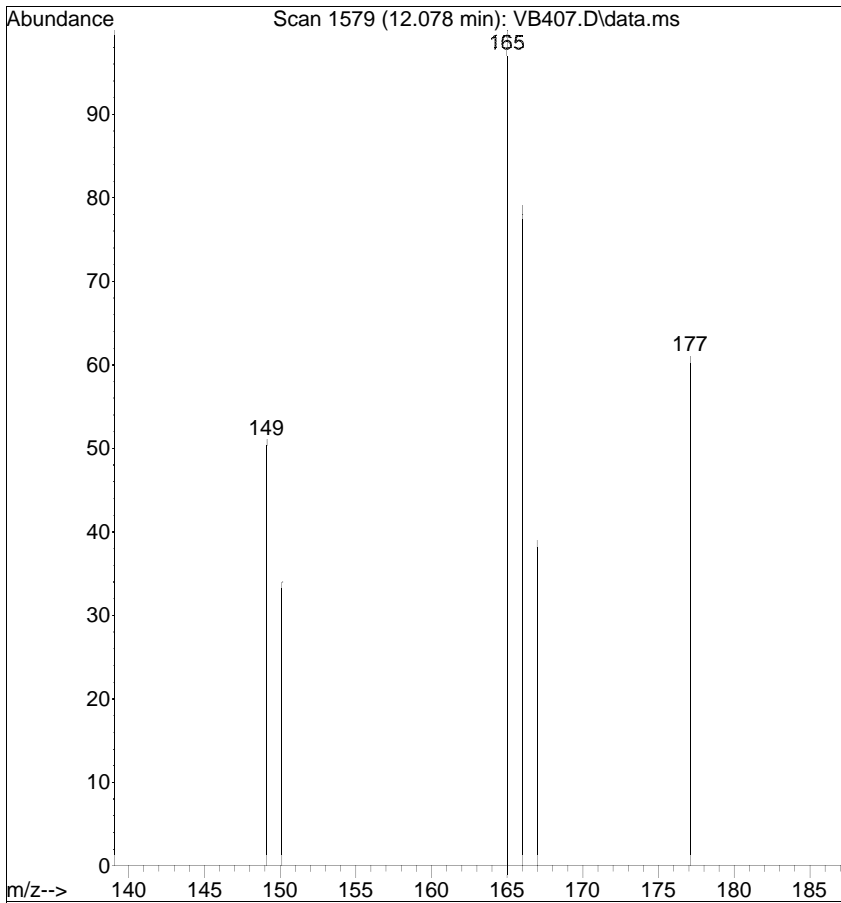
Tgt Ion	Ratio	Lower	Upper
154	100		
152	34.2	35.4	75.4#
153	30.1	96.8	136.8#



Ref

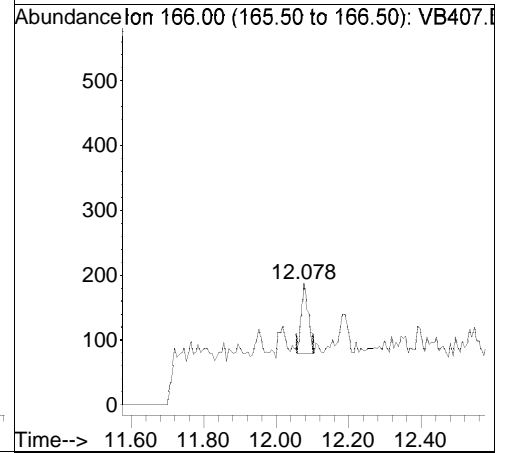


Raw

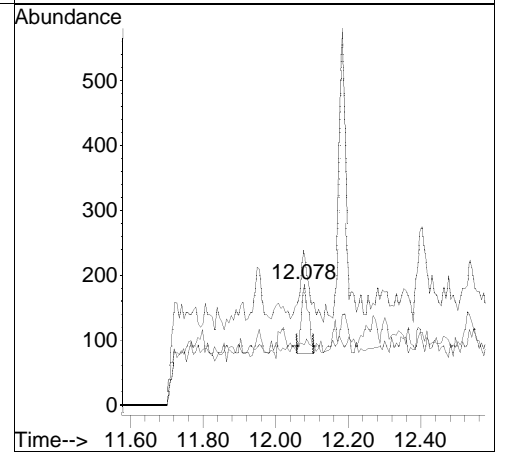
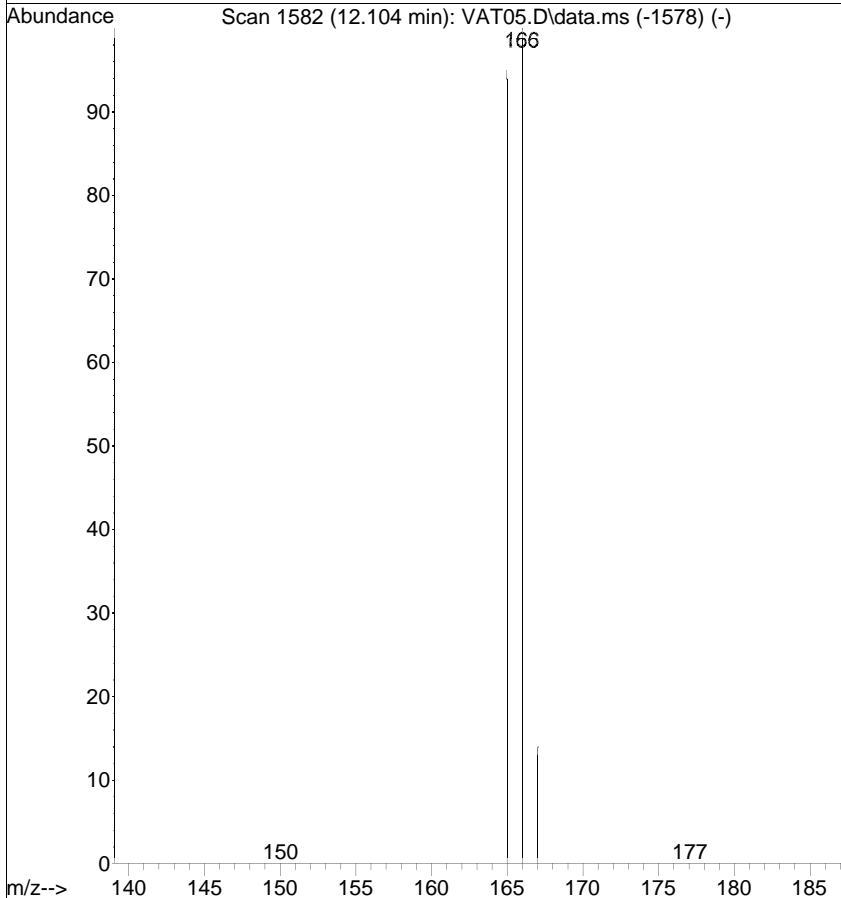


#12
 Fluorene
 Concen: 0.0024 ug/mL
 RT: 12.078 min Scan# 1579
 Delta R.T. -0.026 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

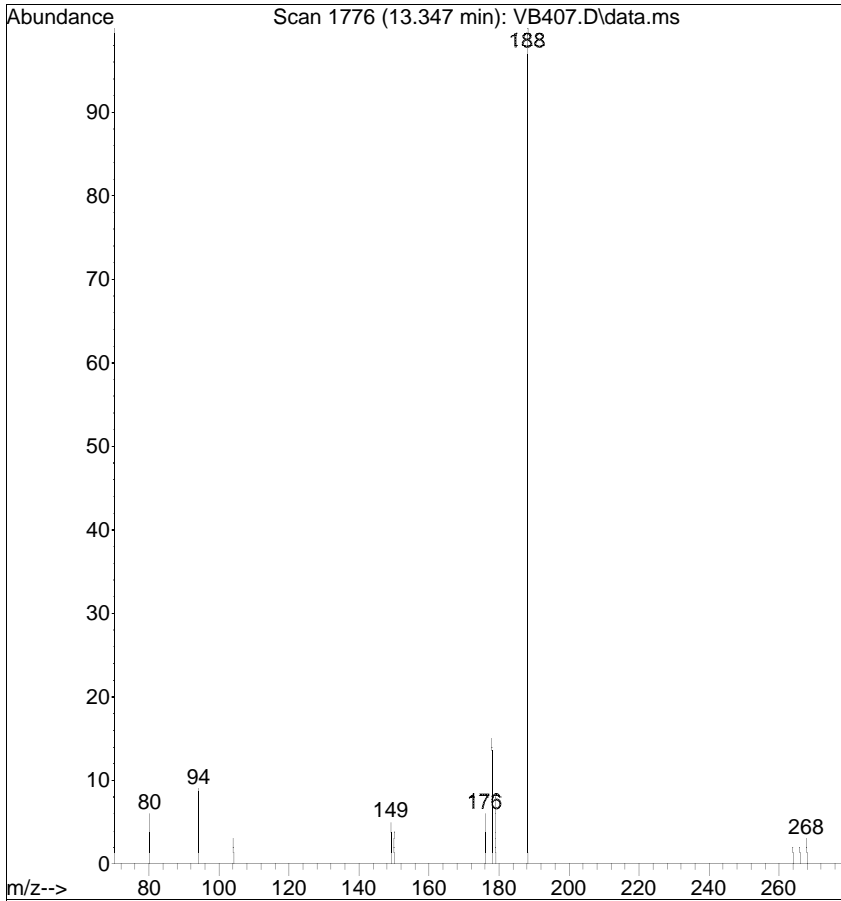
Tgt Ion	Resp	Lower	Upper
166	100		
165	127.3	74.9	114.9#
167	49.7	0.0	33.9#



Ref

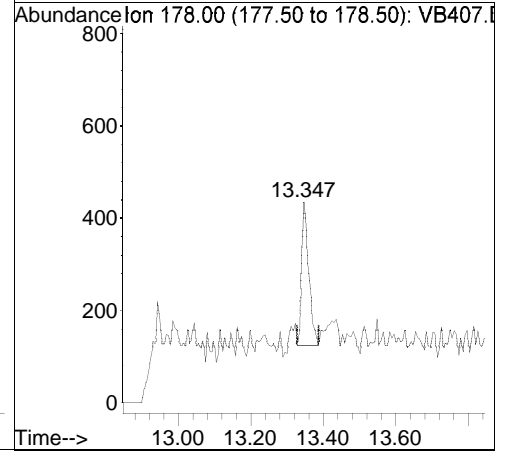


Raw

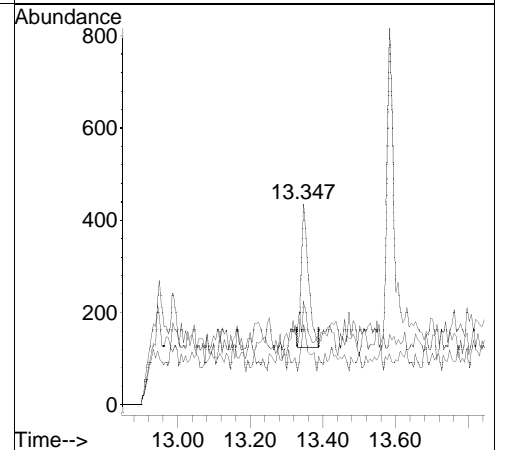
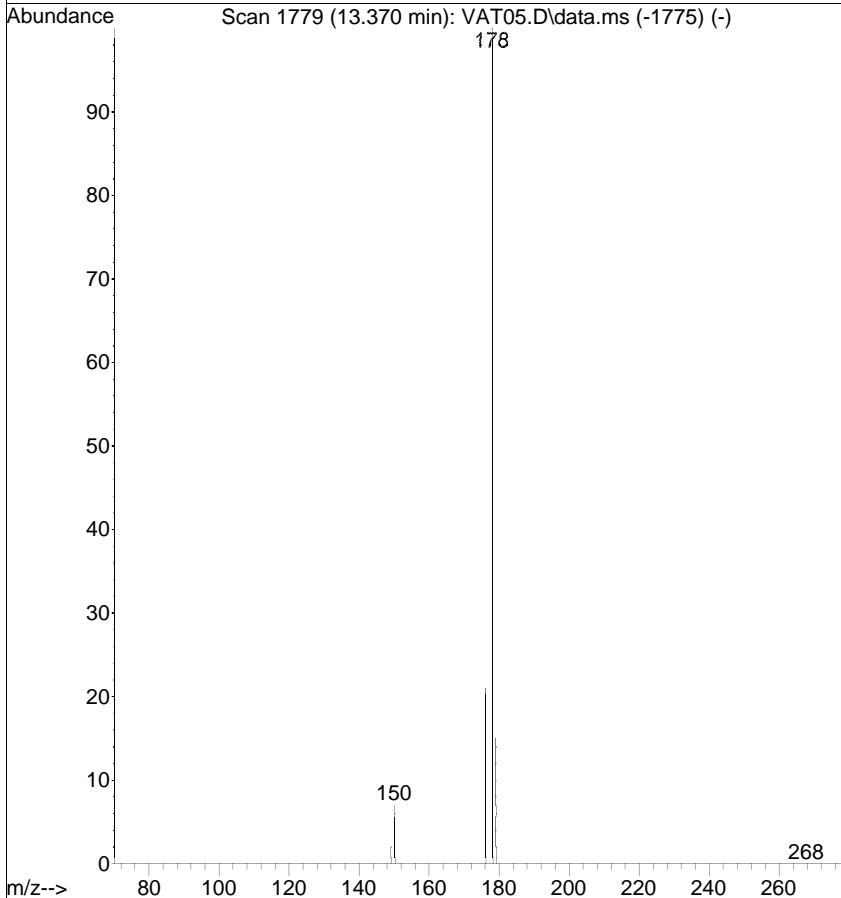


#15
 Phenanthrene
 Concen: 0.0045 ug/mL
 RT: 13.347 min Scan# 1776
 Delta R.T. -0.024 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

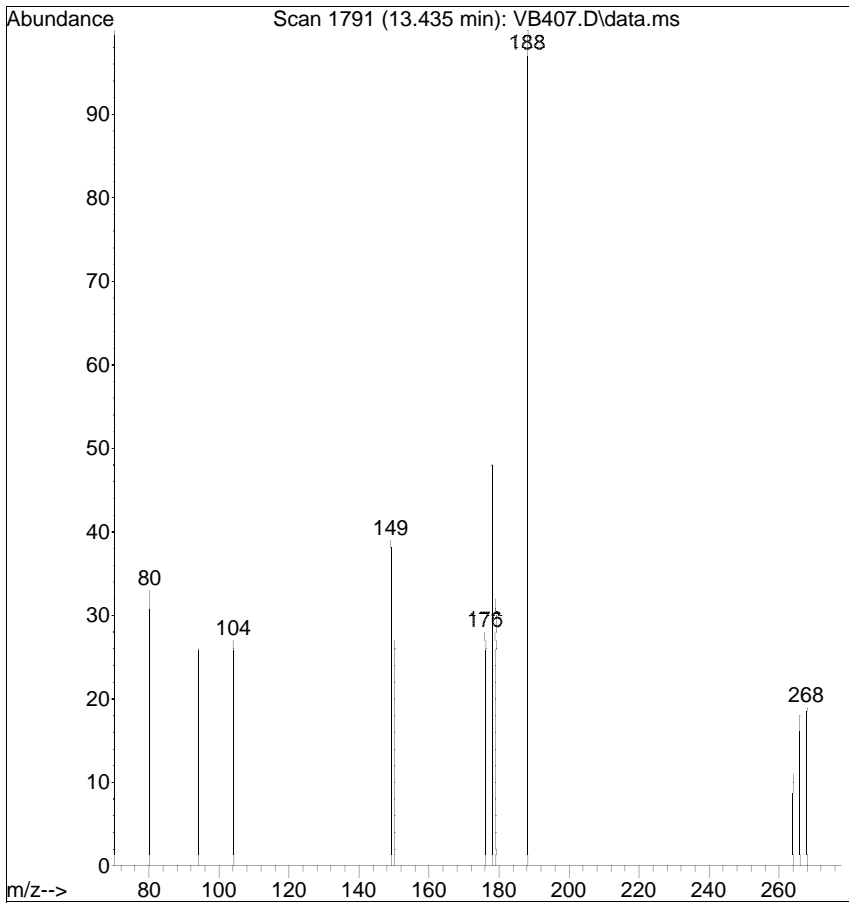
Tgt Ion	Ratio	Lower	Upper
178	100		
179	51.7	0.0	35.0#
176	40.2	0.0	38.9#



Ref

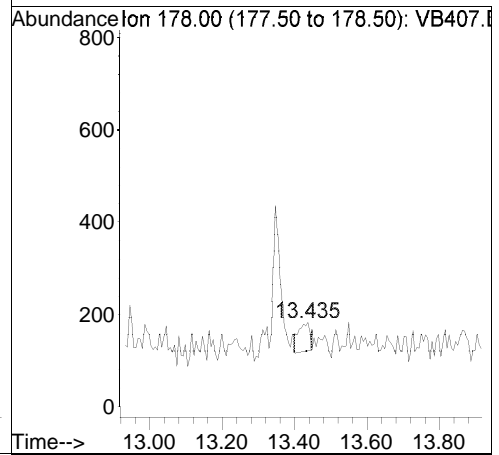


Raw

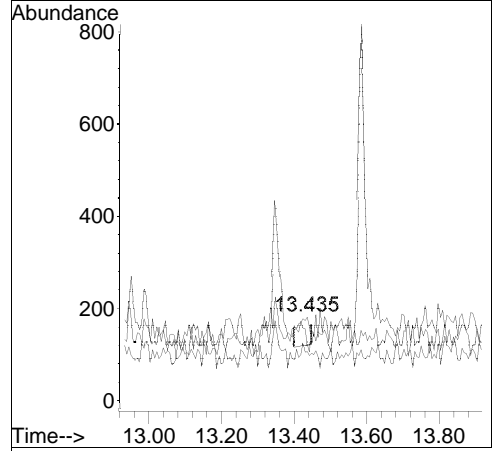
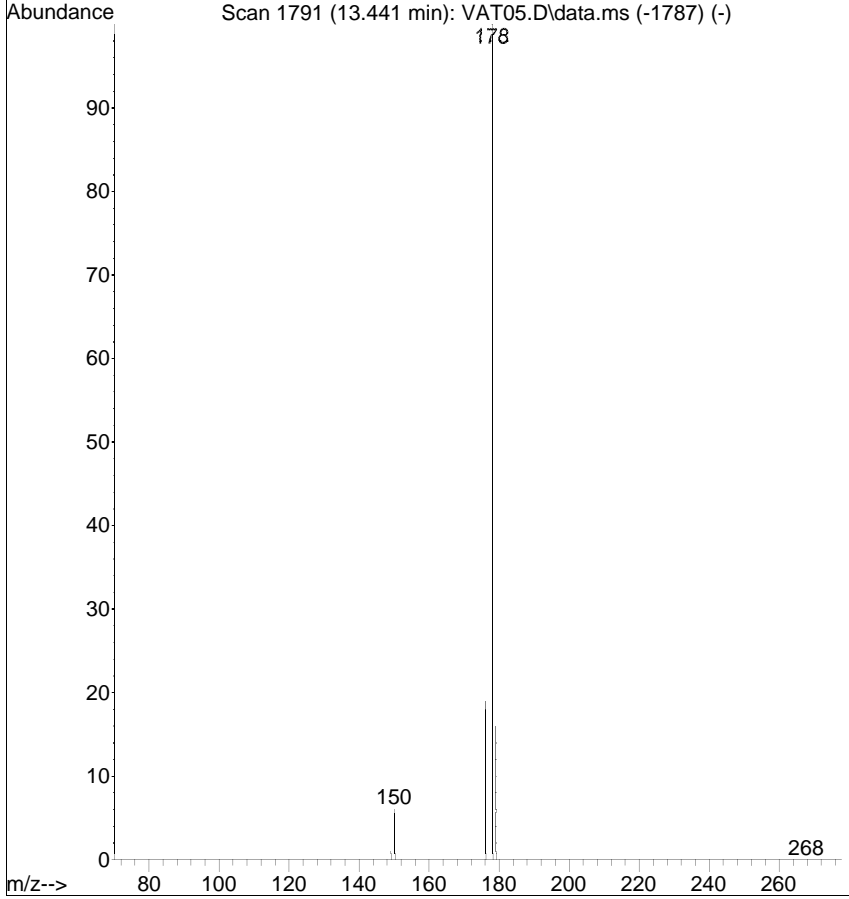


#16
 Anthracene
 Concen: 0.0015 ug/mL
 RT: 13.435 min Scan# 1791
 Delta R.T. -0.006 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

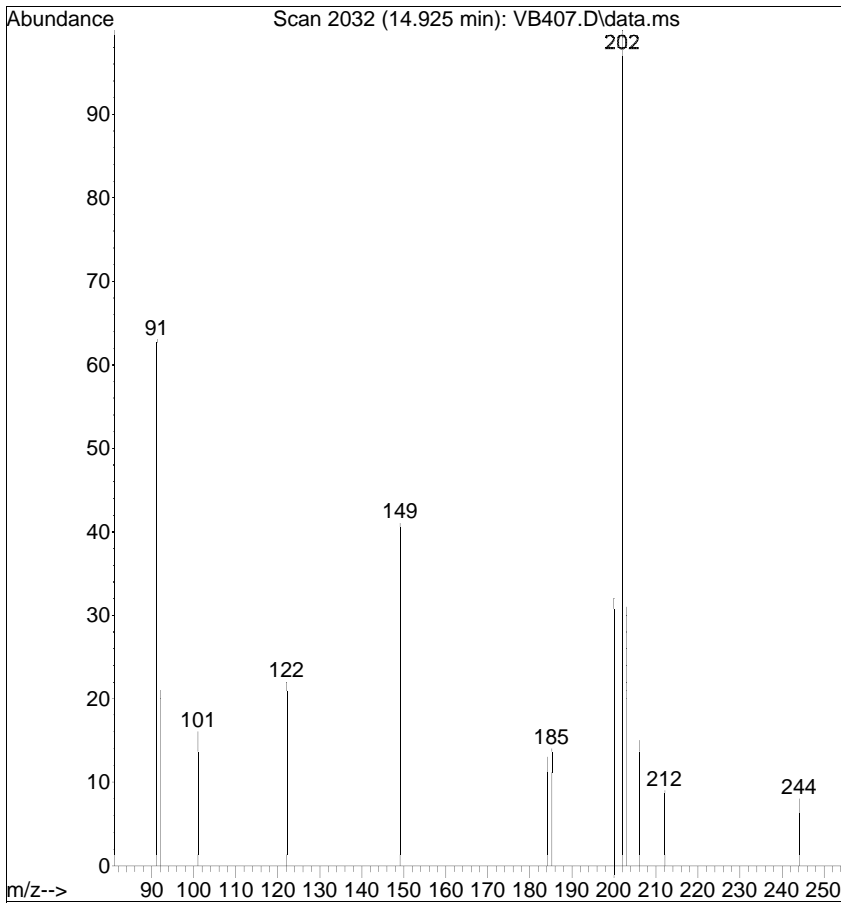
Tgt Ion	Ratio	Lower	Upper
178	100		
179	66.5	0.0	34.4#
176	58.8	0.0	39.5#



Ref

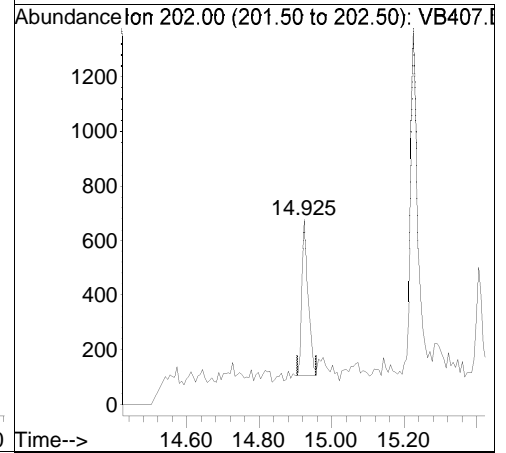


Raw

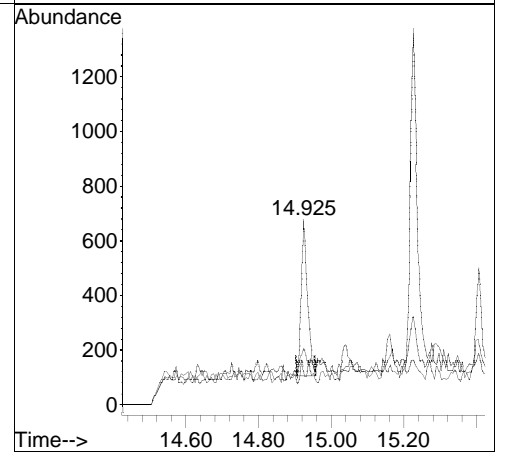
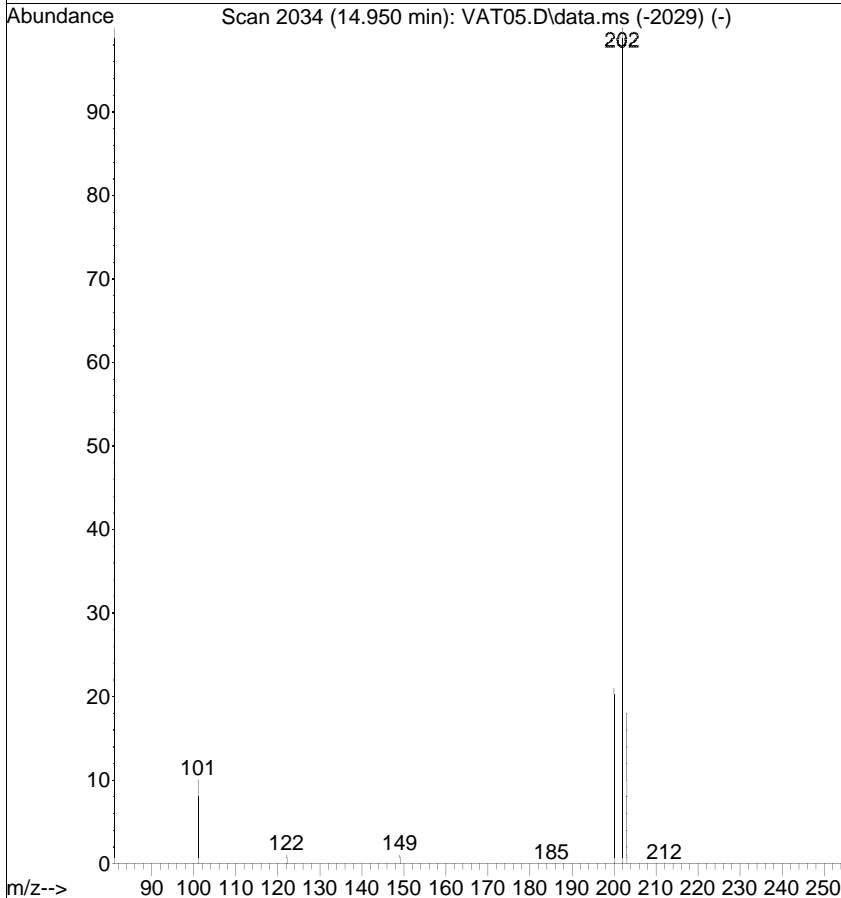


#17
 Fluoranthene
 Concen: 0.0063 ug/mL
 RT: 14.925 min Scan# 2032
 Delta R.T. -0.025 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

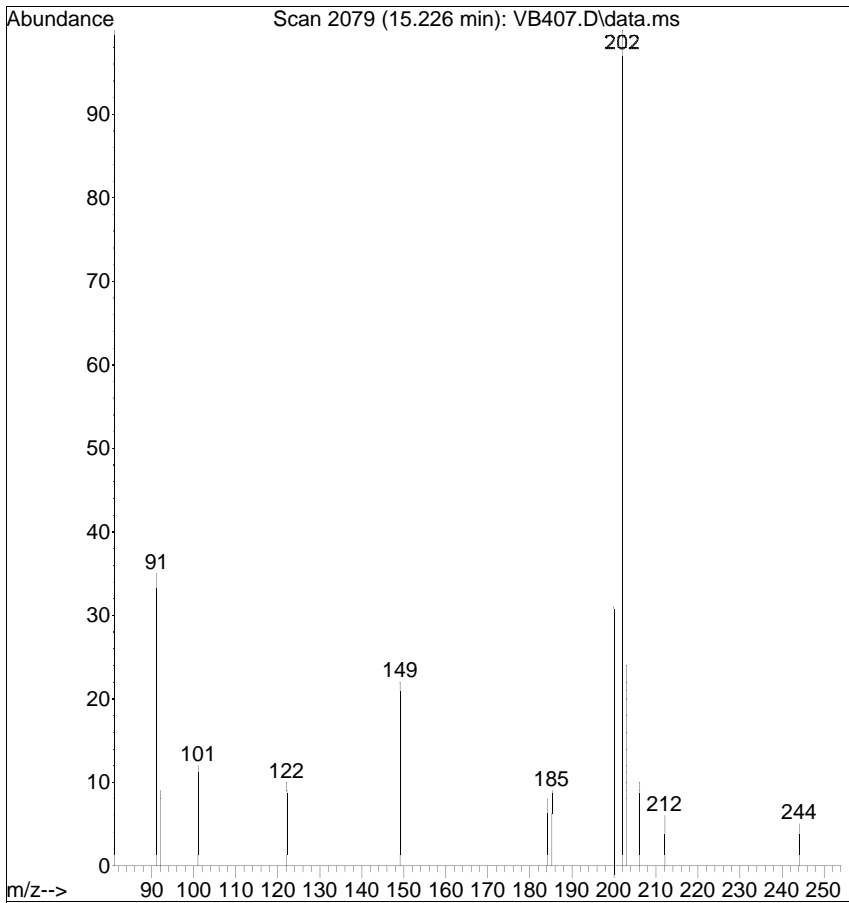
Tgt Ion	Resp	Lower	Upper
202	100		
101	15.5	0.0	21.1
203	30.6	0.0	37.0



Ref

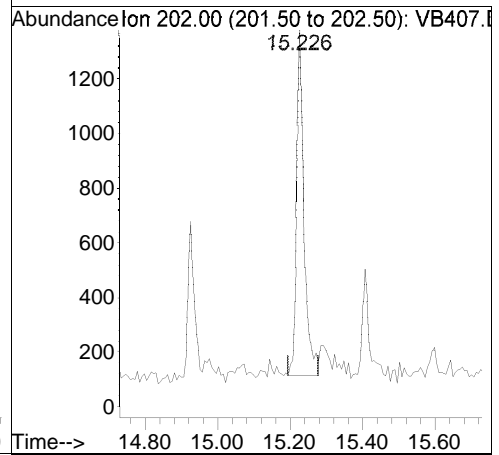


Raw

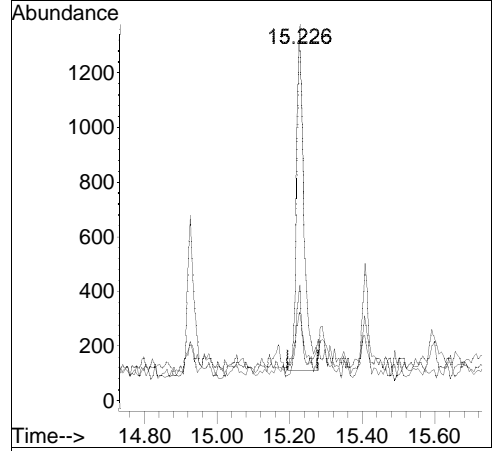
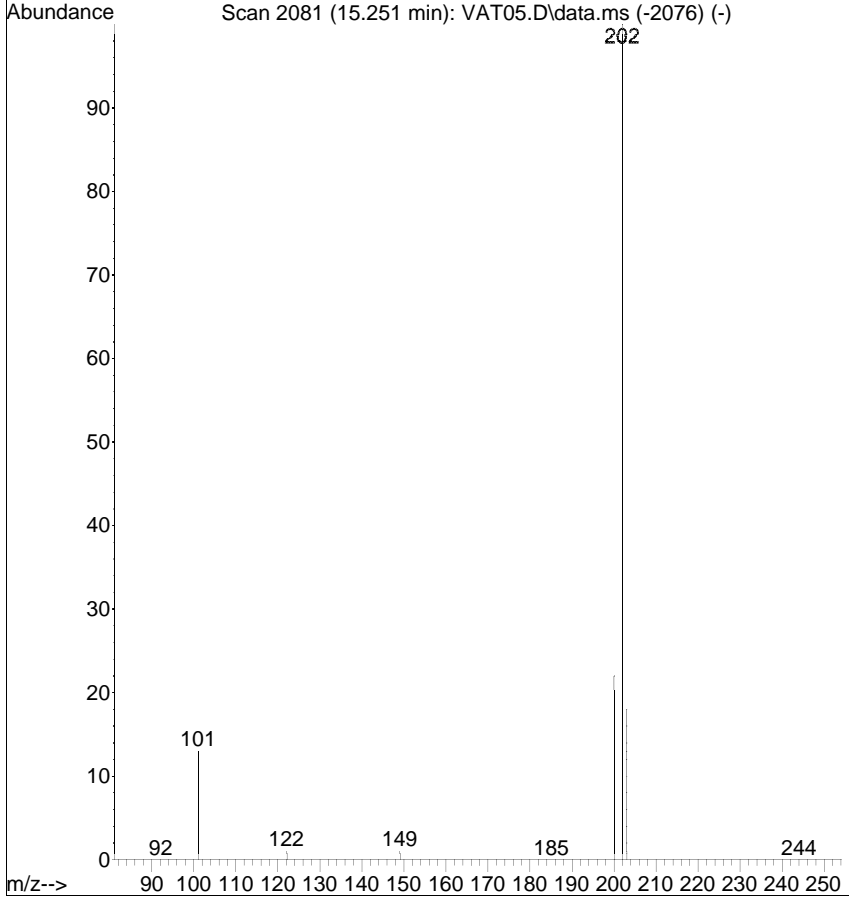


#19
 Pyrene
 Concen: 0.0170 ug/mL
 RT: 15.226 min Scan# 2079
 Delta R.T. -0.025 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

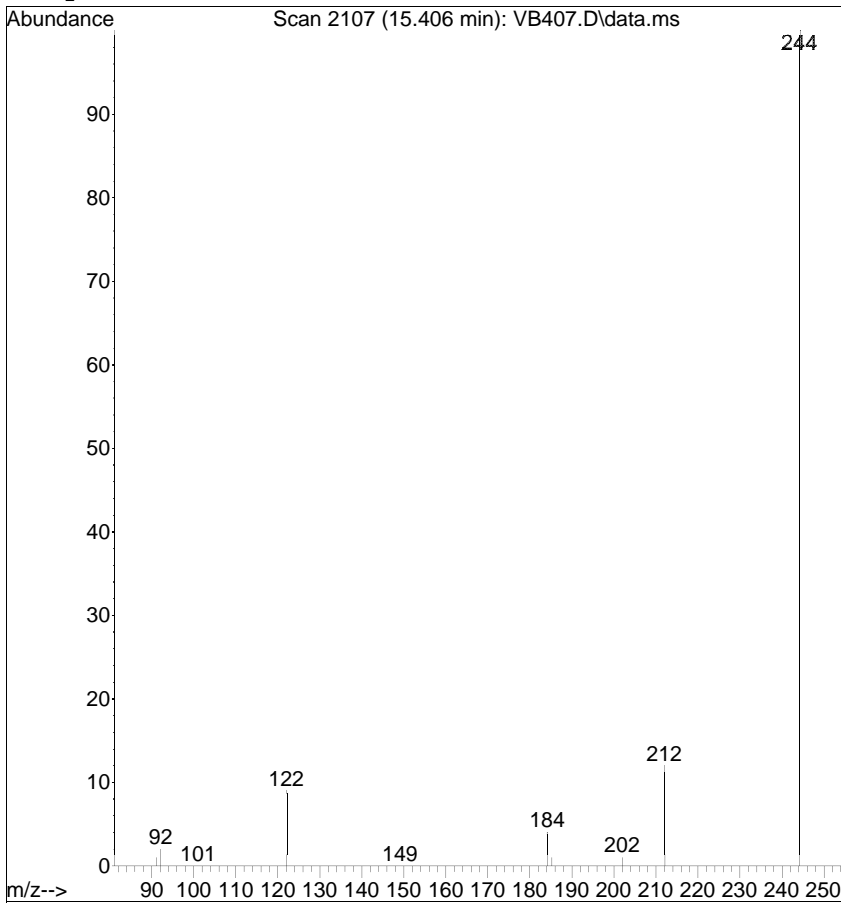
Tgt Ion	Resp	Lower	Upper
202	1751		
200	30.8	1.1	41.1
203	23.7	0.0	37.7



Ref

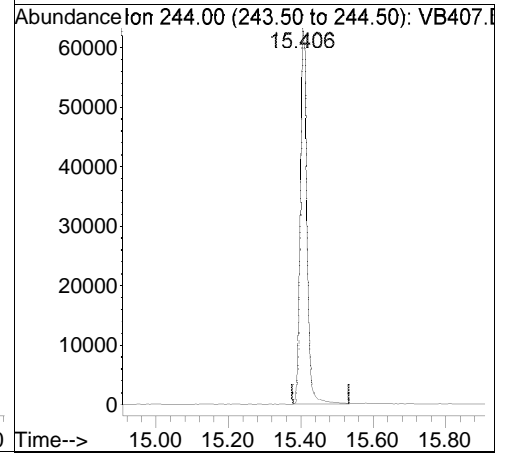


Raw

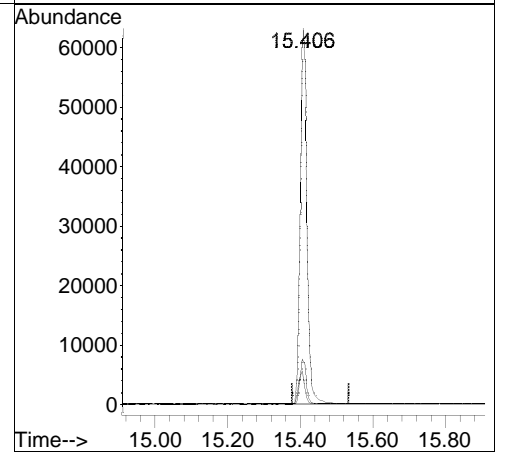
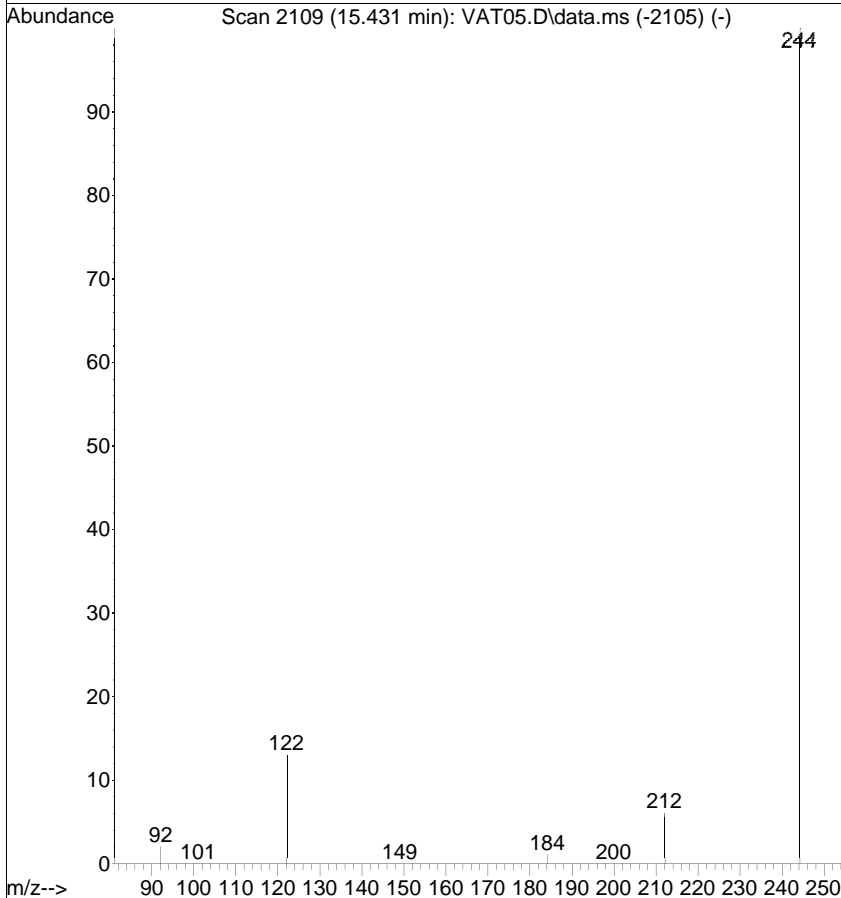


#20
 Terphenyl-d14
 Concen: 0.8853 ug/mL
 RT: 15.406 min Scan# 2107
 Delta R.T. -0.025 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

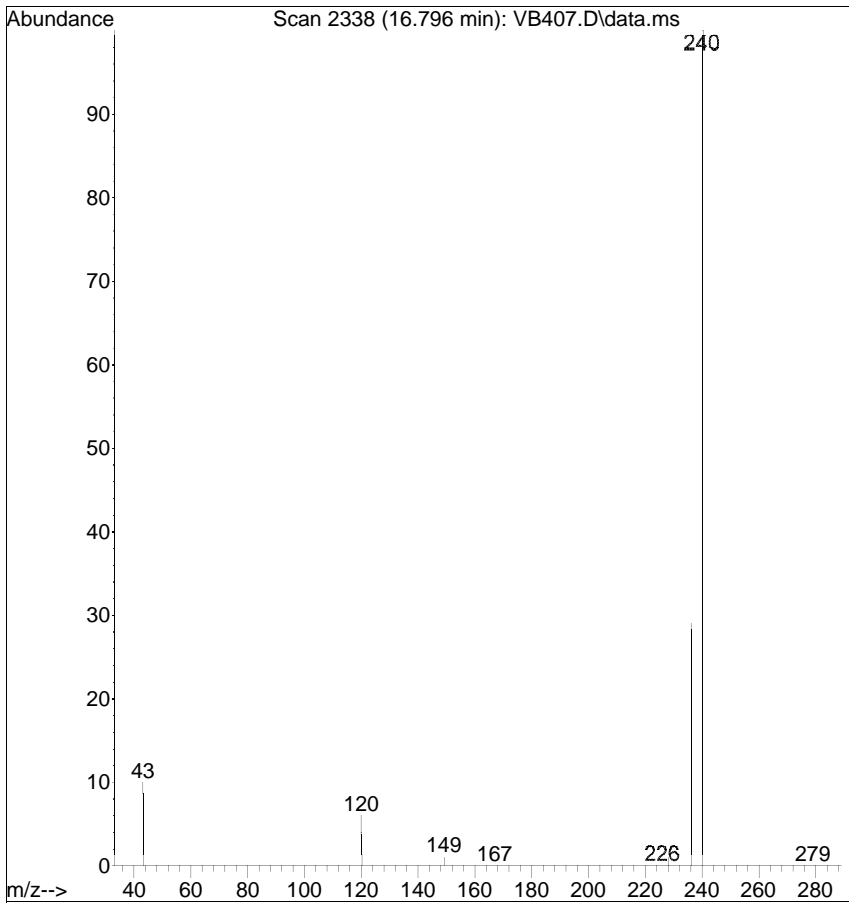
Tgt Ion	Resp	Lower	Upper
244	77477		
122	9.0	0.0	25.0
212	12.1	0.0	31.4



Ref

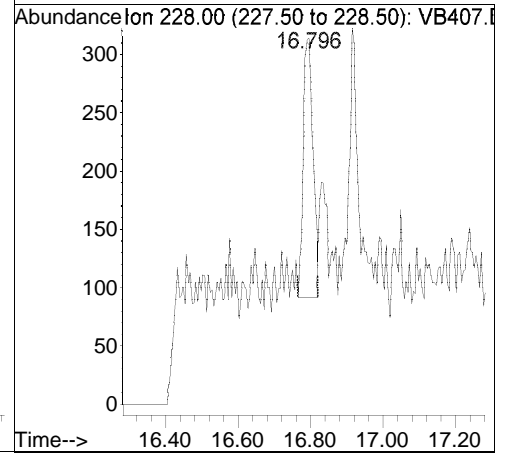


Raw

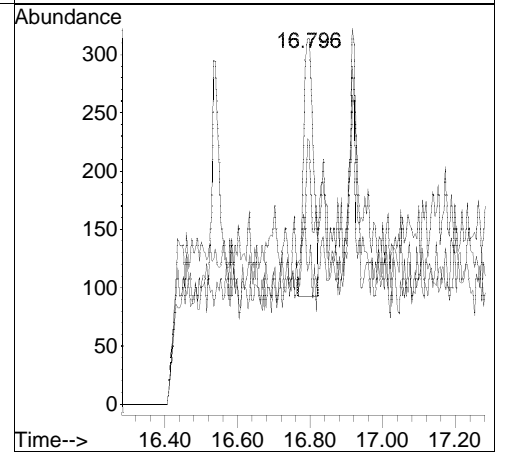
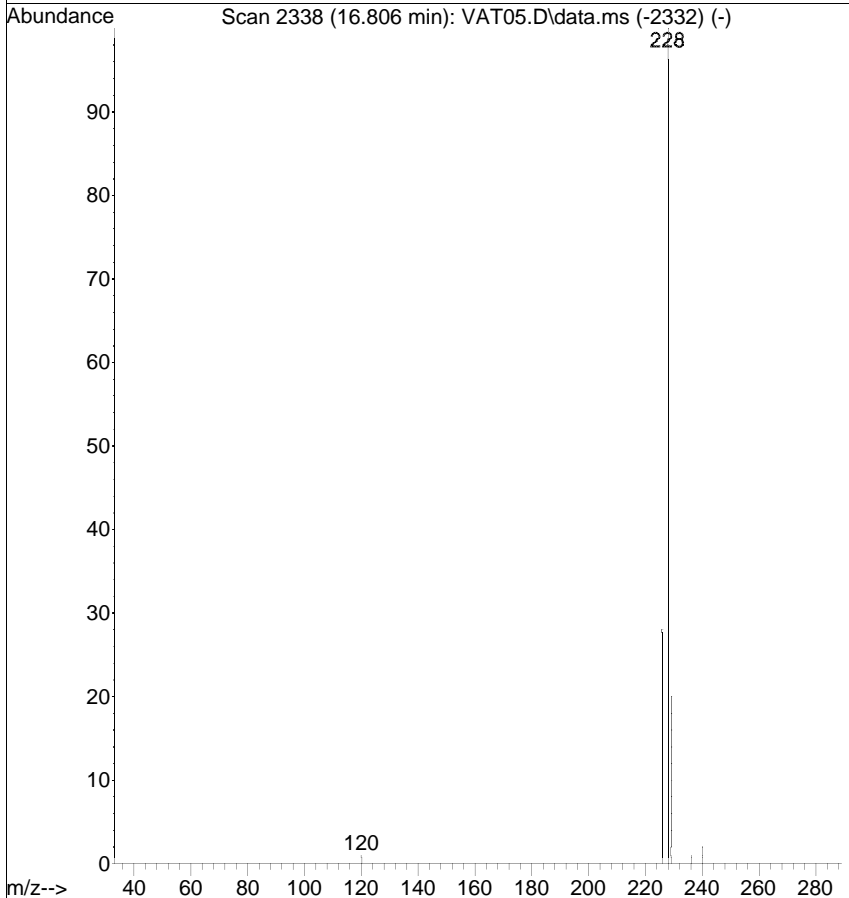


#21
 Benzo(a)anthracene
 Concen: 0.0044 ug/mL
 RT: 16.796 min Scan# 2338
 Delta R.T. -0.009 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

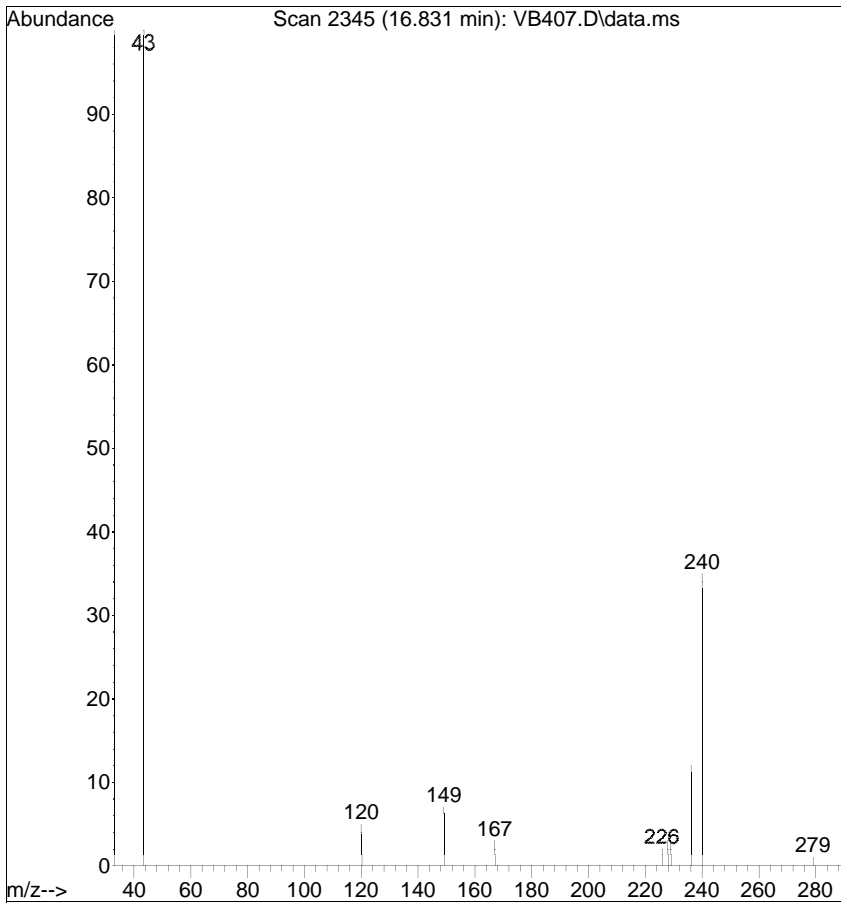
Tgt Ion	Ratio	Lower	Upper
228	100		
229	72.0	0.1	40.1#
226	38.2	9.3	49.3



Ref

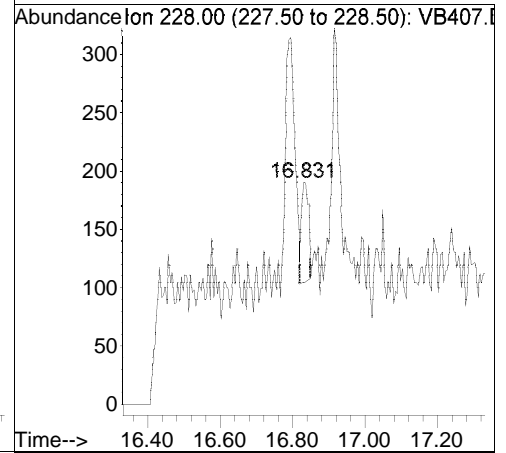


Raw

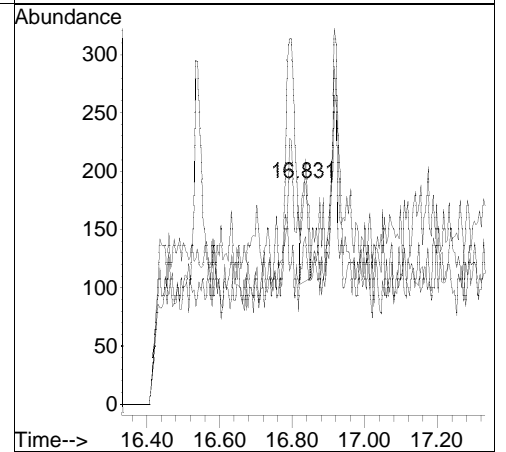
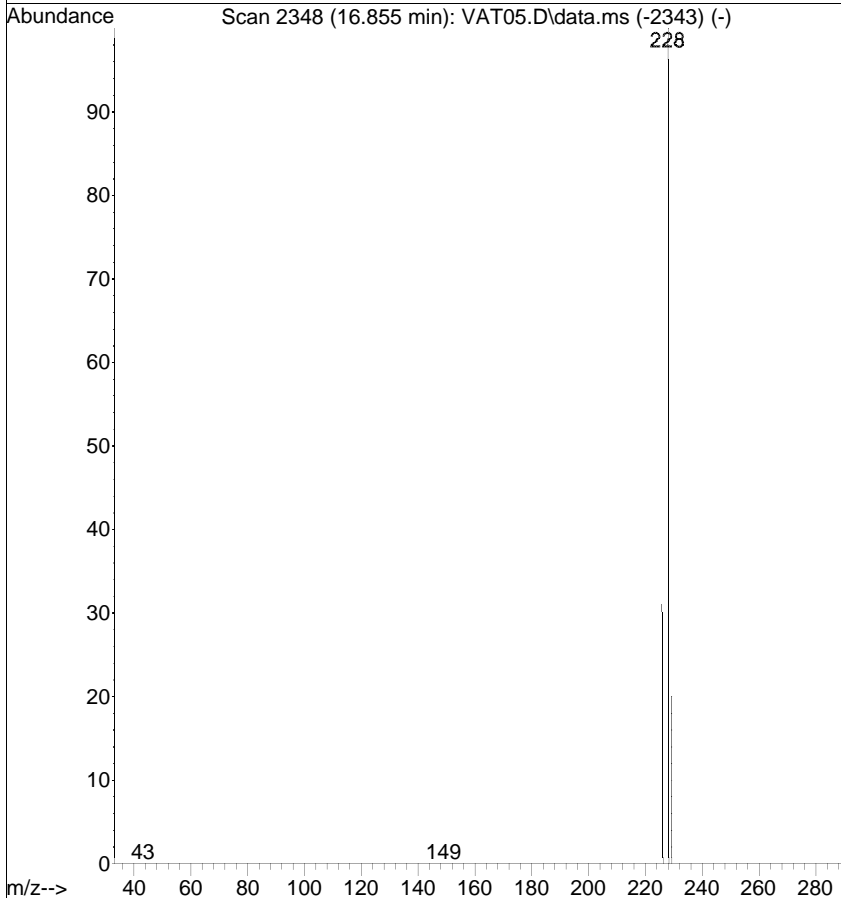


#22
 Chrysene
 Concen: 0.0012 ug/mL
 RT: 16.831 min Scan# 2345
 Delta R.T. -0.024 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

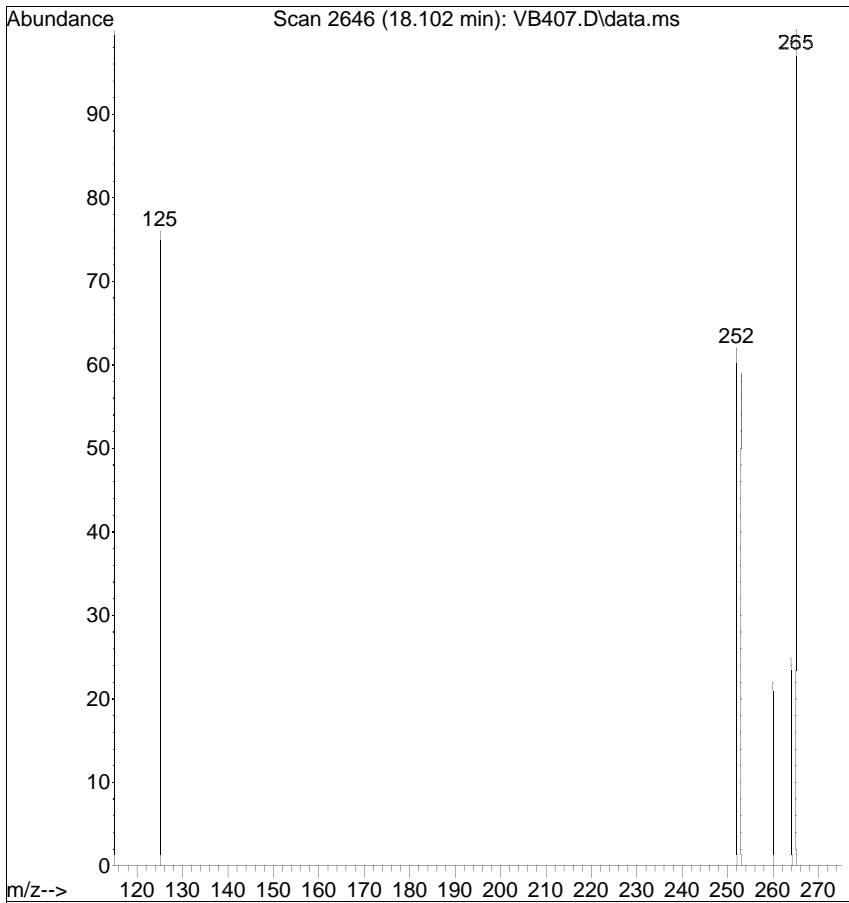
Tgt Ion	Ratio	Lower	Upper
228	100		
226	73.2	13.4	53.4#
229	92.6	0.8	40.8#



Ref

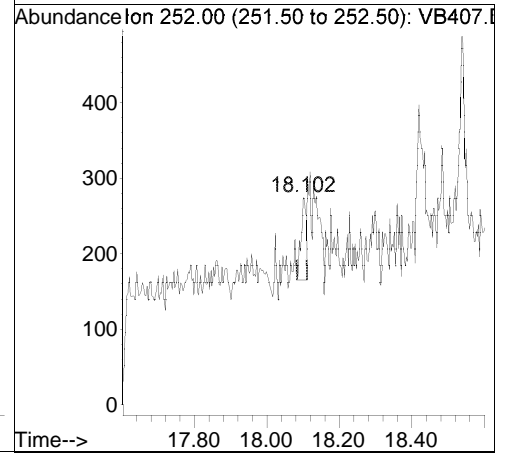


Raw

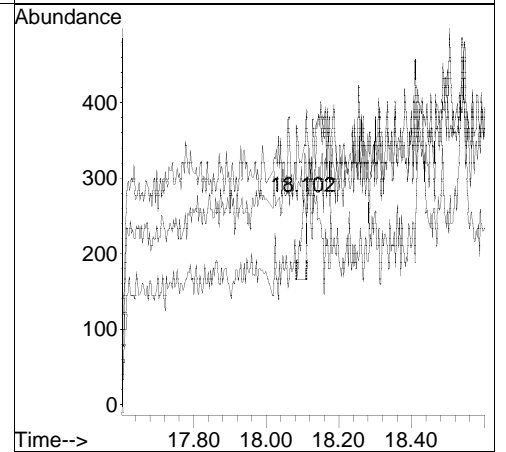
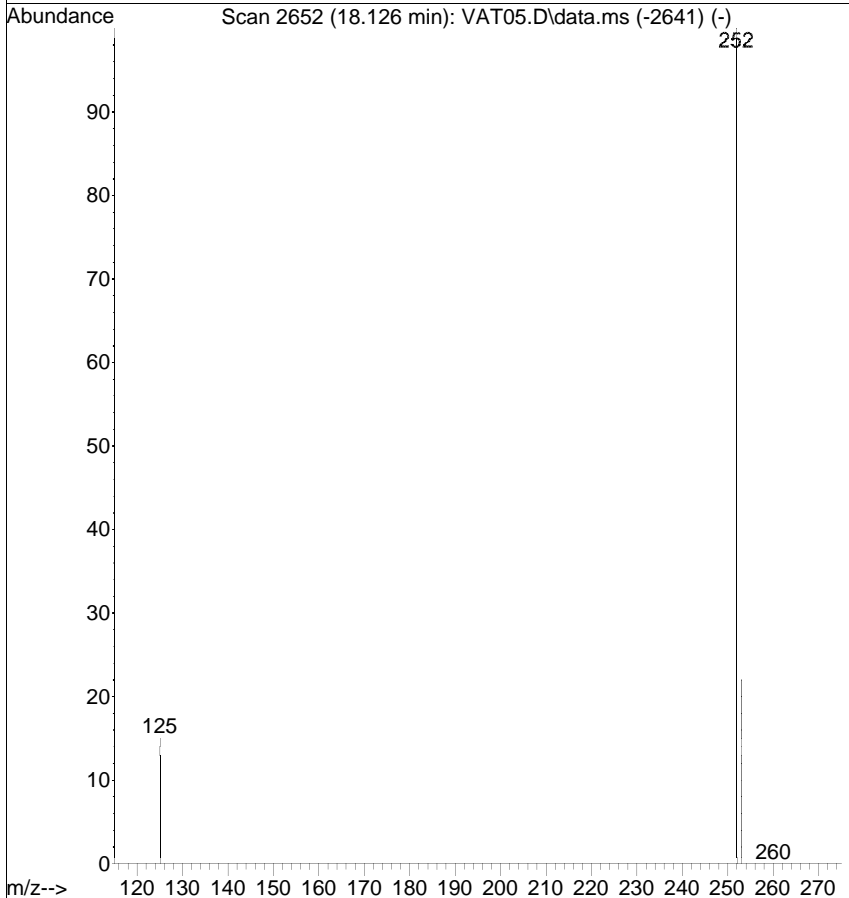


#24
 Benzo(b)fluoranthene
 Concen: 0.0011 ug/mL
 RT: 18.102 min Scan# 2646
 Delta R.T. -0.024 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

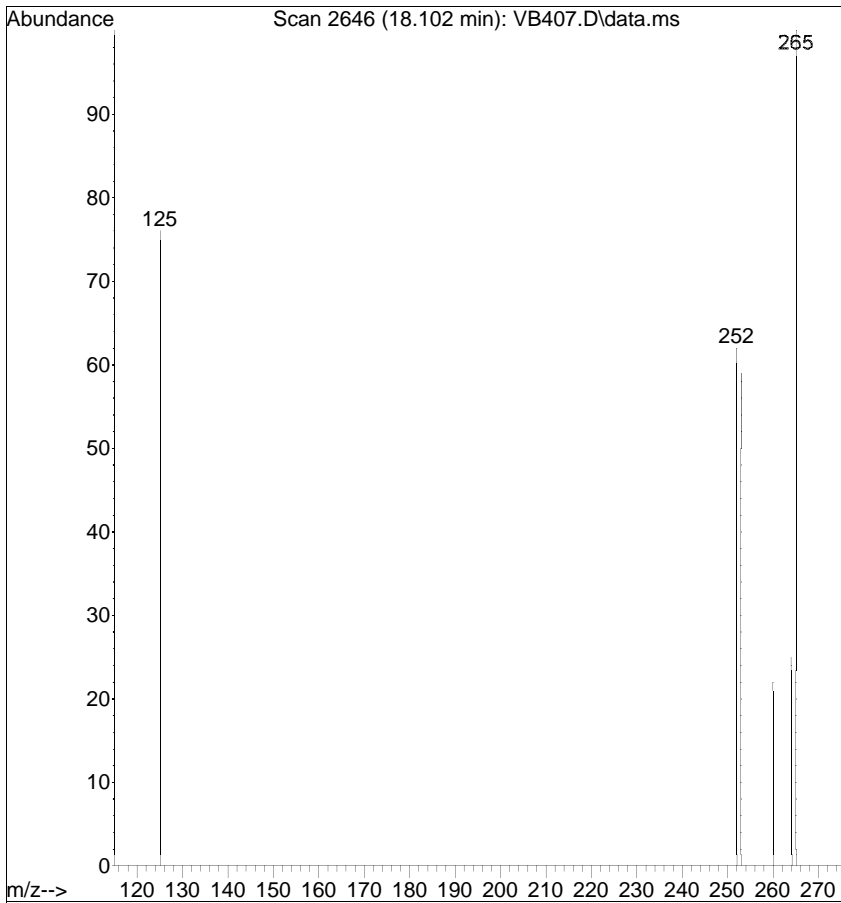
Tgt Ion	Ratio	Lower	Upper	Resp
252	100			111
253	95.6	1.0	41.0#	
125	122.5	0.0	20.9#	



Ref

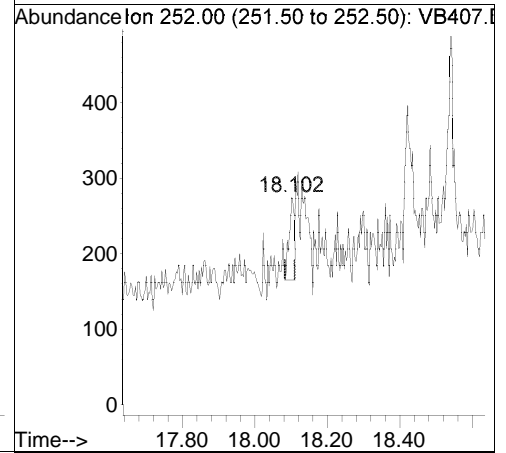


Raw

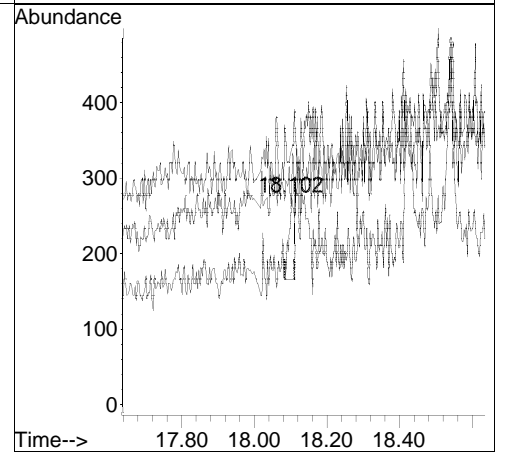
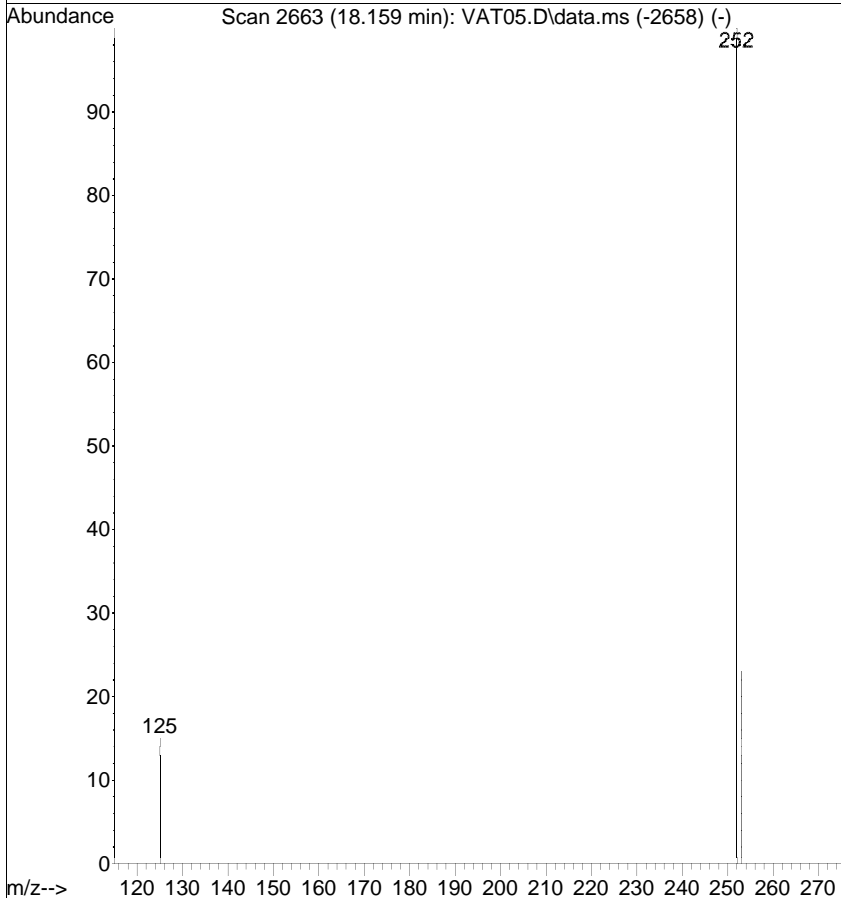


#25
 Benzo(k)fluoranthene
 Concen: 0.0012 ug/mL
 RT: 18.102 min Scan# 2646
 Delta R.T. -0.057 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

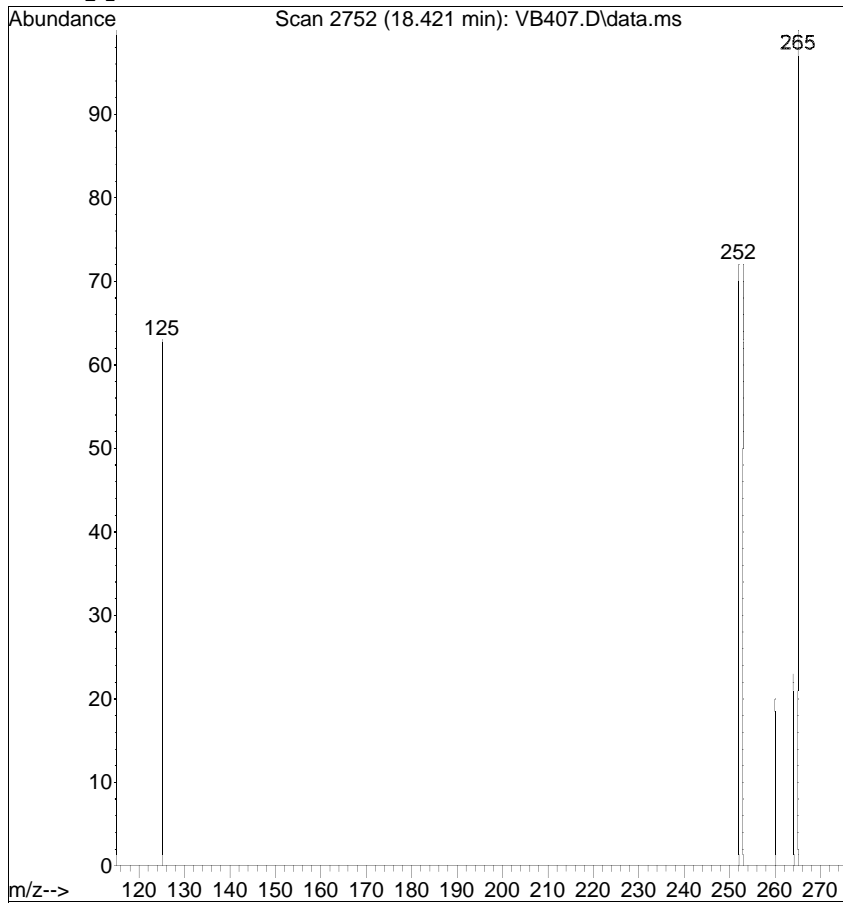
Tgt Ion	Ratio	Lower	Upper
252	100		
253	95.6	1.1	41.1#
125	122.5	0.0	21.1#



Ref

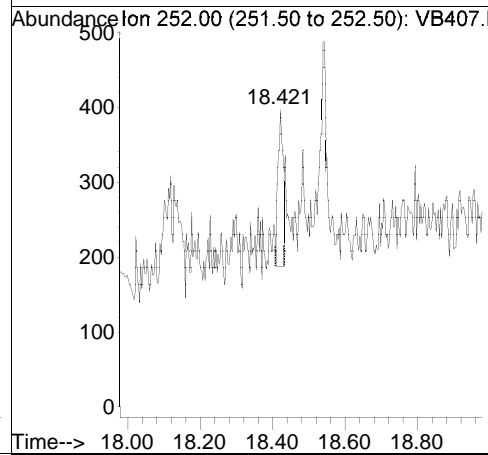


Raw

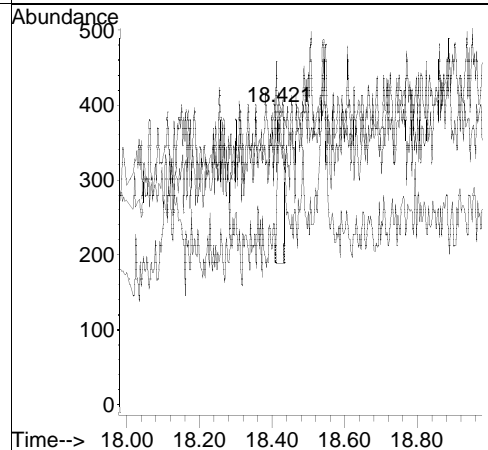
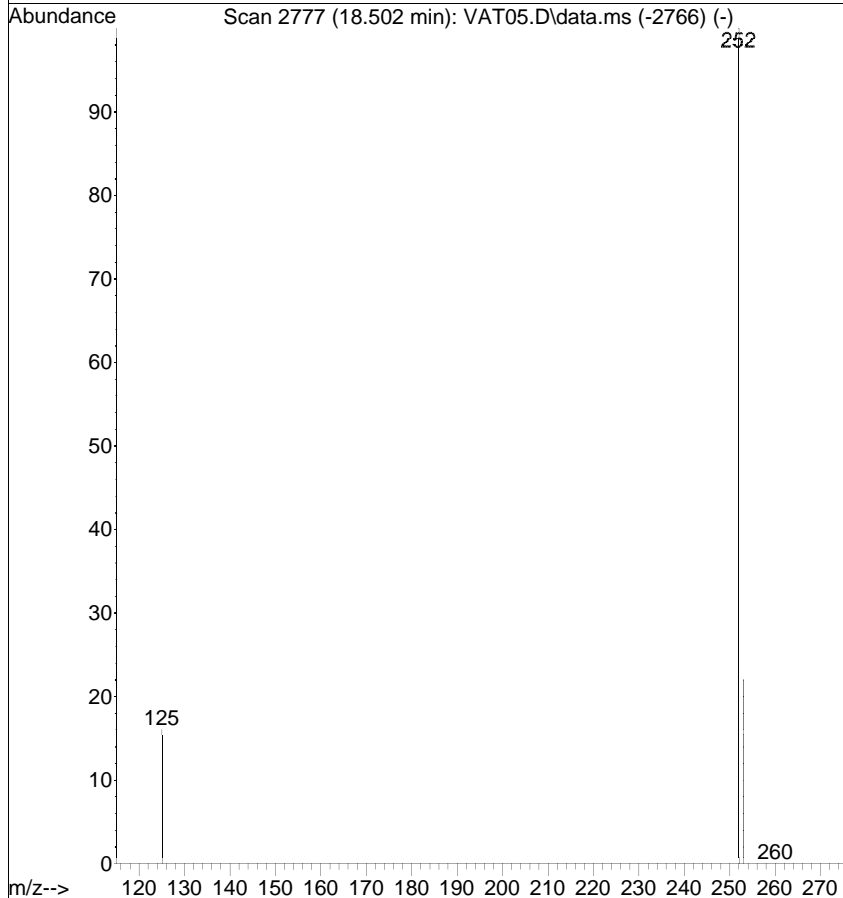


#26
 Benzo(a)pyrene
 Concen: 0.0025 ug/mL
 RT: 18.421 min Scan# 2752
 Delta R.T. -0.081 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

Tgt Ion	Resp	Lower	Upper
252	100		
253	100.3	3.4	43.4#
125	87.9	0.0	20.9#

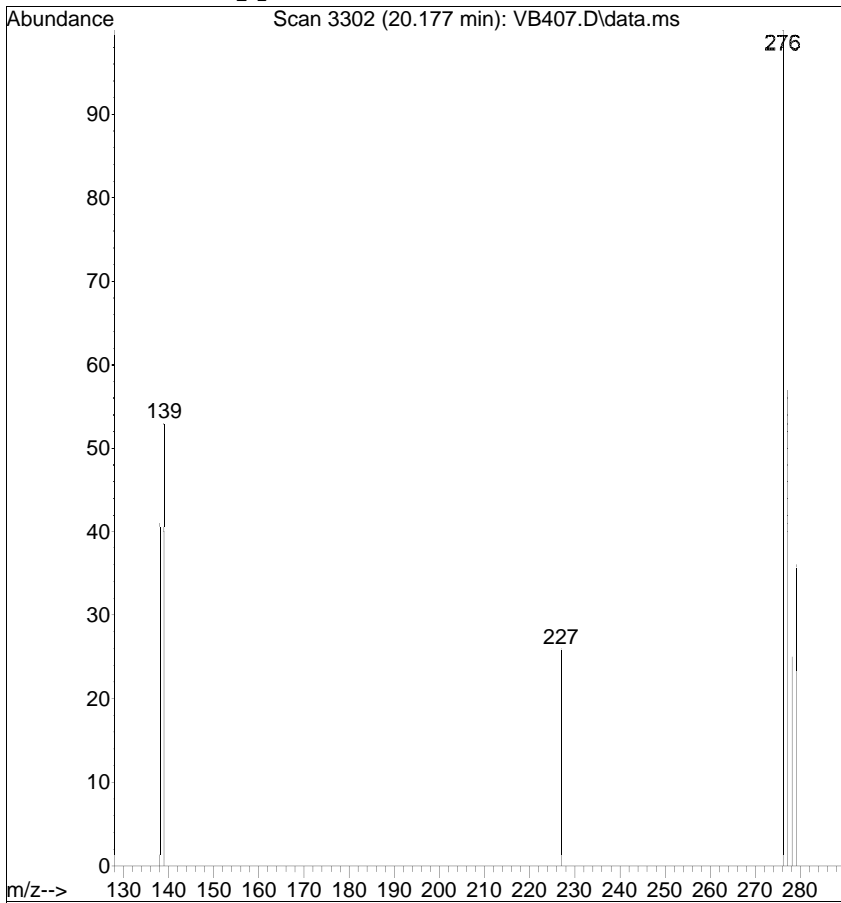


Ref



[Indeno(1,2,3-cd)pyrene; <RL; u]

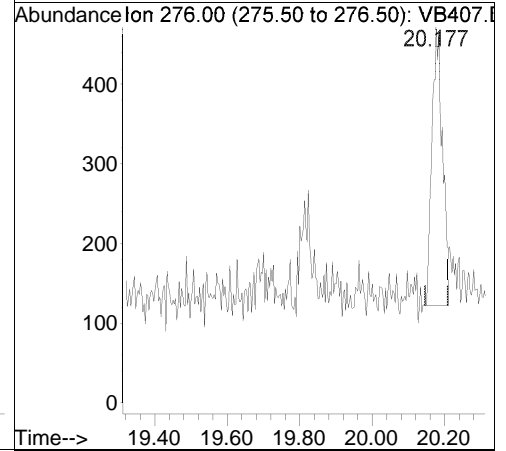
Raw



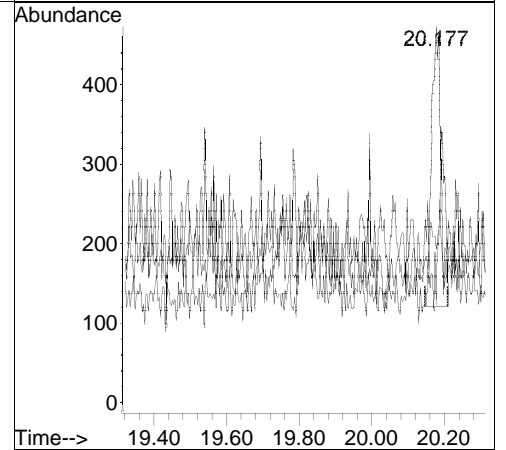
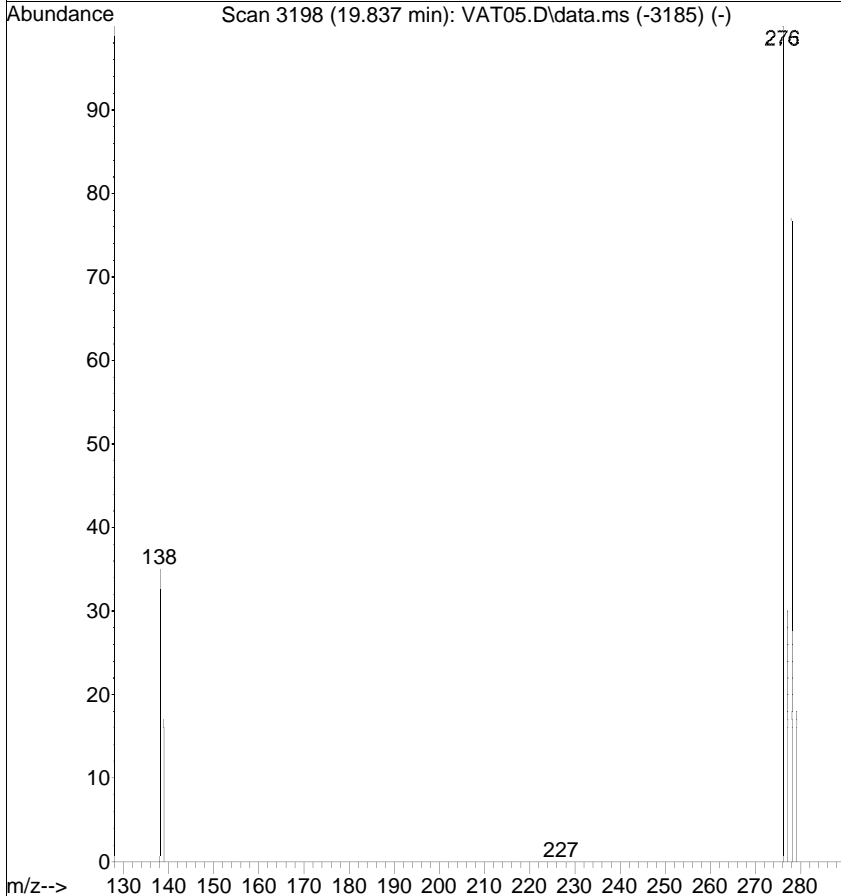
#27

Indeno(1,2,3-cd)pyrene
 Concen: 0.0076 ug/mL
 RT: 20.177 min Scan# 3302
 Delta R.T. 0.339 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

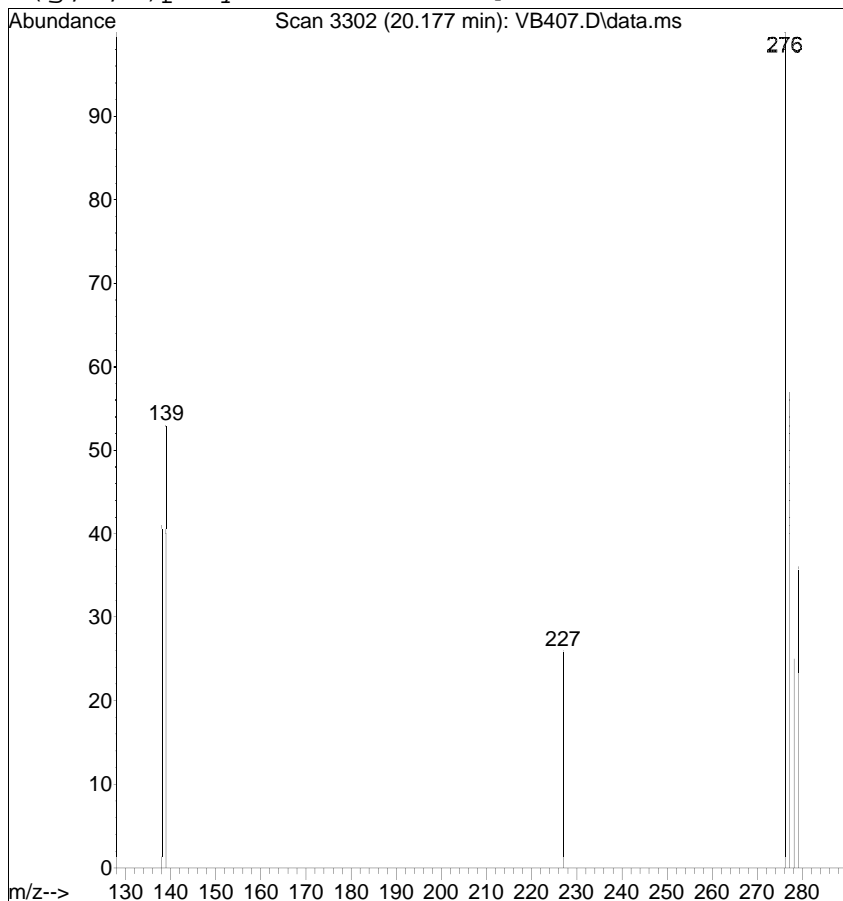
Tgt Ion	Resp	Lower	Upper
276	100		
138	40.8	0.0	23.1#
227	26.2	0.0	21.0#



Ref

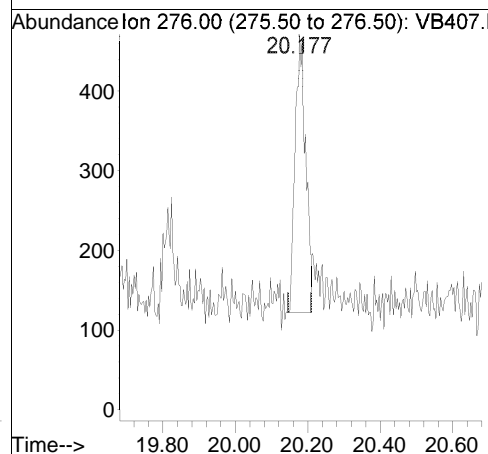


Raw

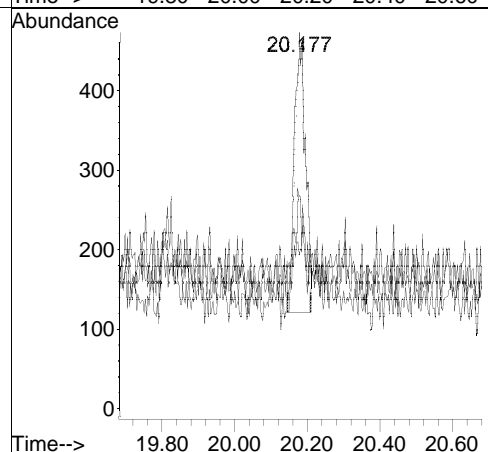
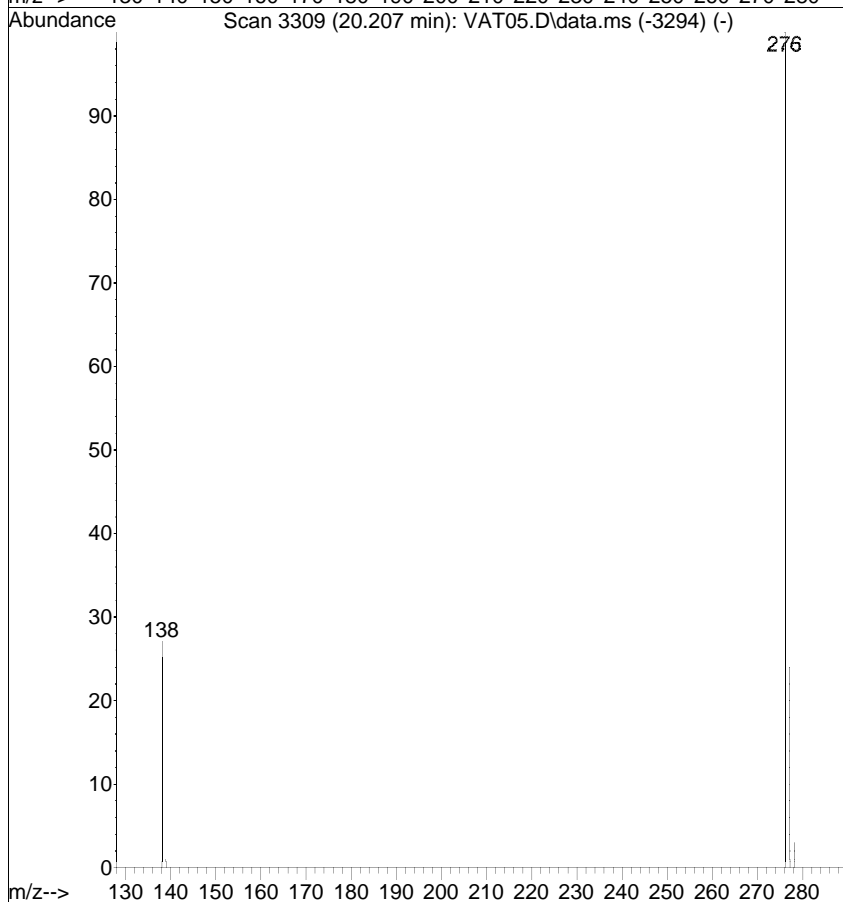


#29
 Benzo(g,h,i)perylene
 Concen: 0.0095 ug/mL
 RT: 20.177 min Scan# 3302
 Delta R.T. -0.031 min
 Lab File: VB407.D
 Acq: 4 Feb 2019 12:22 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	40.8	0.0	22.1#
277	57.1	2.5	42.5#



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 306574-002 Client ID : BR11-1GW02
 Seqnum : 529050994008 Matrix : Water Acct : TRC-SF (MJD)
 File : vb408 Batch : 267157 Time : 04-FEB-2019 12:58
 Cal : 529010667001 Caldate : 07-JAN-2019
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1050.00 mL --> 1.0 ml = 0.0009524 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.005600	ND	0.1		u
Acenaphthylene	0.001800	ND	0.1		u
Acenaphthene	0.006300	ND	0.1		u
Fluorene	0.001700	ND	0.1		u
Phenanthrene	0.005200	ND	0.1		u
Anthracene	0.003500	ND	0.1		u
Fluoranthene	0.006400	ND	0.1		u
Pyrene	0.01640	ND	0.1		u
Benzo(a)anthracene	0.002600	ND	0.1		u
Chrysene	0.001900	ND	0.1		u
Benzo(b)fluoranthene	0.001000	ND	0.1		u
Benzo(k)fluoranthene	0.001100	ND	0.1		u
Benzo(a)pyrene	0.001800	ND	0.1		u
Indeno(1,2,3-cd)pyrene	0.001900	ND	0.1		u
Dibenz(a,h)anthracene	0	ND	0.1		u
Benzo(g,h,i)perylene	0.005700	ND	0.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.8001	0.9524	0.7620	80	58-134	u
2-Fluorobiphenyl	0.7401	0.9524	0.7049	74	53-120	u
Terphenyl-d14	0.5959	0.9524	0.5675	60	18-128	u

ISTD (CCV vb406)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	68247	74808	9.61	9.04	9.04	0.00
Acenaphthene-d10	39412	43864	11.30	11.36	11.35	-0.01
Phenanthrene-d10	88300	96693	9.51	13.32	13.32	0.00
Chrysene-d12	74054	78988	6.66	16.80	16.80	0.00
Perylene-d12	71368	81006	13.50	18.54	18.54	0.00

5% spike rule

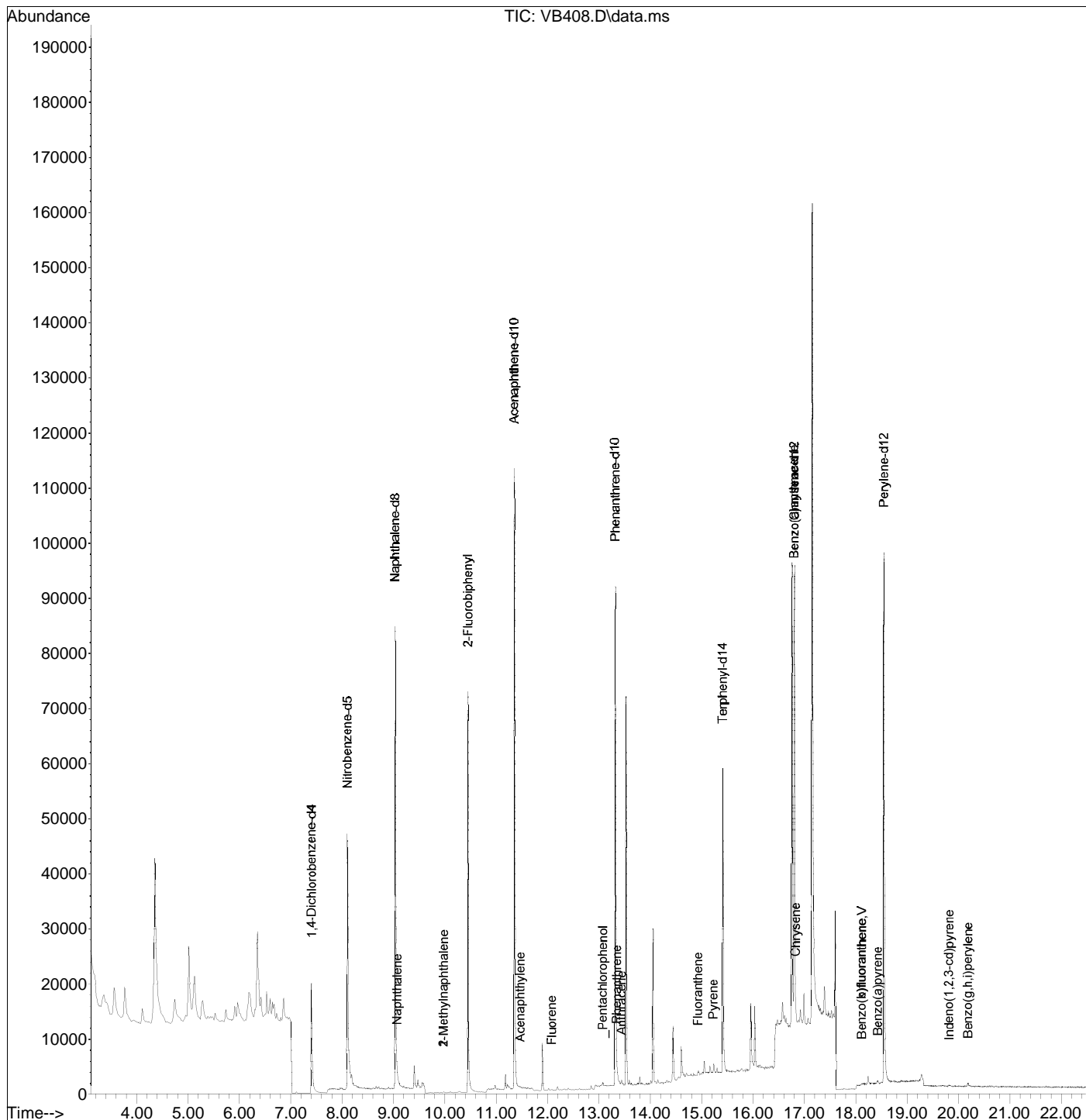
Analyst: ECI Date: 02/04/19 Reviewer: LW Date: 02/04/19

u=use

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\020419\
 Data File : VB408.D
 Acq On : 4 Feb 2019 12:58 pm
 Operator :
 Sample : s,306574-002
 Misc : 267157,1,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:21:07 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 29 11:12:04 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\020419\
 Data File : VB408.D
 Acq On : 4 Feb 2019 12:58 pm
 Operator :
 Sample : s,306574-002
 Misc : 267157,1,
 ALS Vial : 8 Sample Multiplier: 1

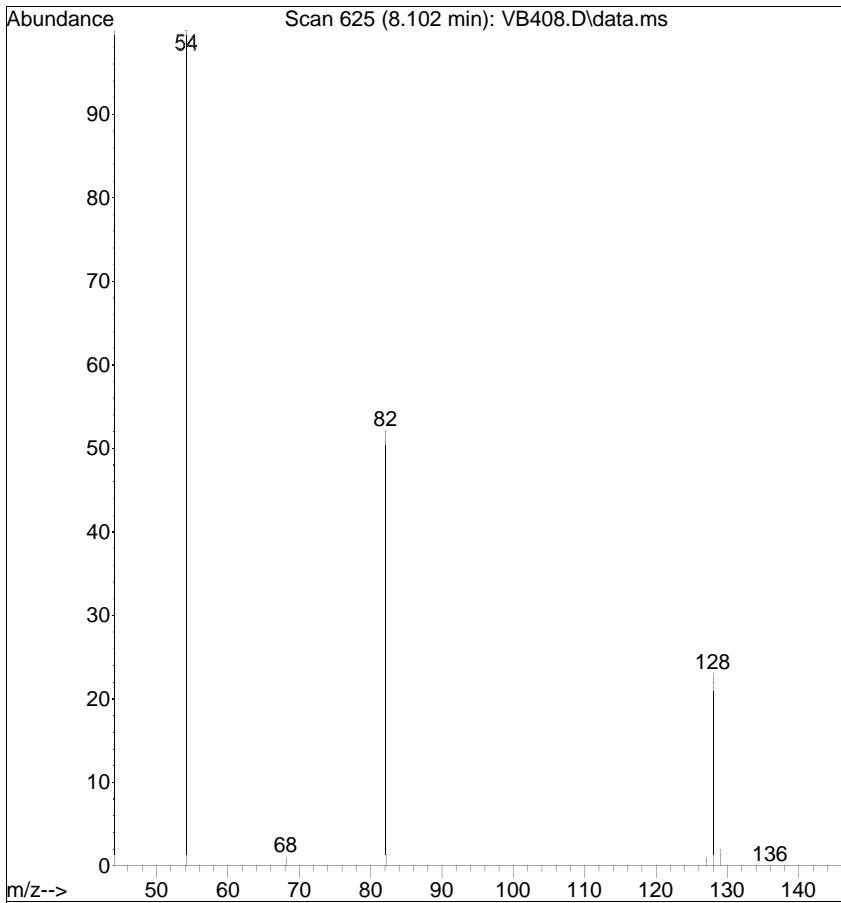
Quant Time: Feb 04 13:21:07 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 29 11:12:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.403	152	19557	1.0000	ug/mL	-0.02
3) Naphthalene-d8	9.035	136	74808	1.0000	ug/mL	-0.03
8) Acenaphthene-d10	11.351	164	43864	1.0000	ug/mL	-0.03
13) Phenanthrene-d10	13.317	188	96693	1.0000	ug/mL	-0.02
18) Chrysene-d12	16.801	240	78988	1.0000	ug/mL	-0.02
23) Perylene-d12	18.542	264	81006	1.0000	ug/mL	-0.02

Target Compounds	R.T.	QIon	Response	Conc.	Units	Rel.RT	Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.			
4) Nitrobenzene-d5	8.102	82	20110	0.8001	ug/mL	# 1	
5) Naphthalene	9.070	128	399	0.0056	ug/mL	58	
6) 2-Methylnaphthalene	9.974	142	156	0.0027	ug/mL	82	
7) 1-Methylnaphthalene	9.974	142	156	0.0032	ug/mL	82	
9) 2-Fluorobiphenyl	10.450	172	58599	0.7401	ug/mL	99	
10) Acenaphthylene	11.467	152	138	0.0018	ug/mL	# 2	
11) Acenaphthene	11.351	154	311	0.0063	ug/mL	# 36	
12) Fluorene	12.078	166	102	0.0017	ug/mL	# 38	
14) _Pentachlorophenol	13.068	266	349	0.6908	ug/mL	93	
15) Phenanthrene	13.347	178	488	0.0052	ug/mL	# 37	
16) Anthracene	13.435	178	304	0.0035	ug/mL	# 39	
17) Fluoranthene	14.925	202	717	0.0064	ug/mL	# 42	
19) Pyrene	15.226	202	1704	0.0164	ug/mL	74	
20) Terphenyl-d14	15.405	244	52593	0.5959	ug/mL	94	
21) Benzo(a)anthracene	16.796	228	250	0.0026	ug/mL	# 27	
22) Chrysene	16.826	228	173	0.0019	ug/mL	# 16	
24) Benzo(b)fluoranthene	18.108	252	110	0.0010	ug/mL	# 1	
25) Benzo(k)fluoranthene	18.108	252	110	0.0011	ug/mL	# 1	
26) Benzo(a)pyrene	18.422	252	163	0.0018	ug/mL	# 1	
27) Indeno(1,2,3-cd)pyrene	19.810	276	184	0.0019	ug/mL	# 1	
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.			
29) Benzo(g,h,i)perylene	20.177	276	442	0.0057	ug/mL	# 44	

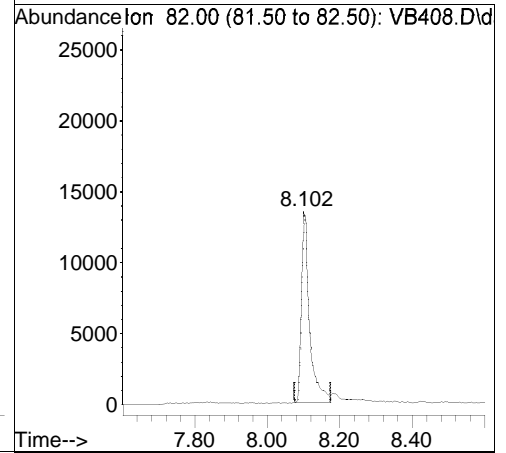
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

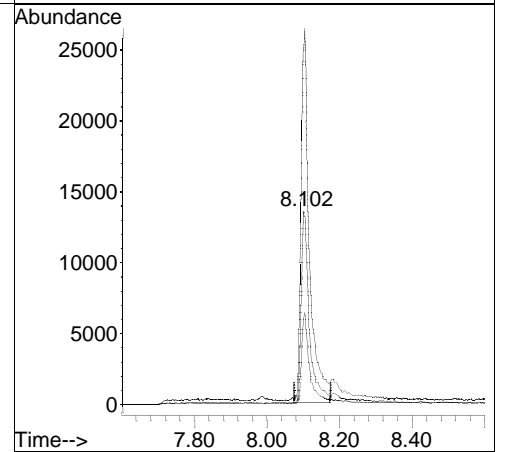
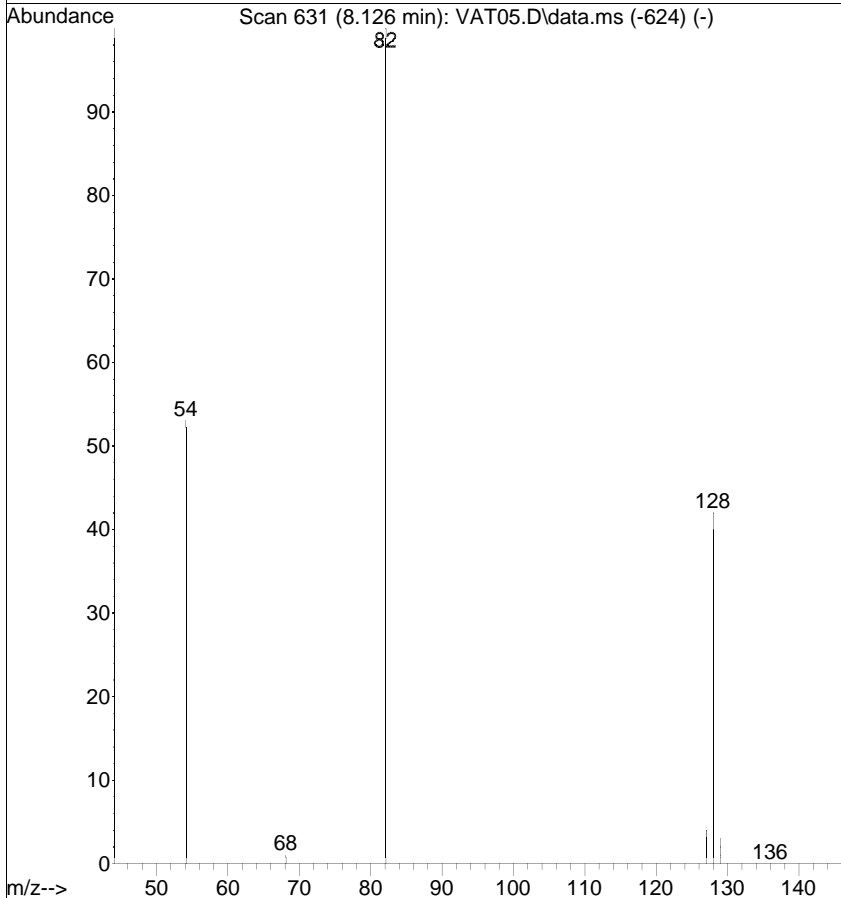


#4
 Nitrobenzene-d5
 Concen: 0.8001 ug/mL
 RT: 8.102 min Scan# 625
 Delta R.T. -0.024 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

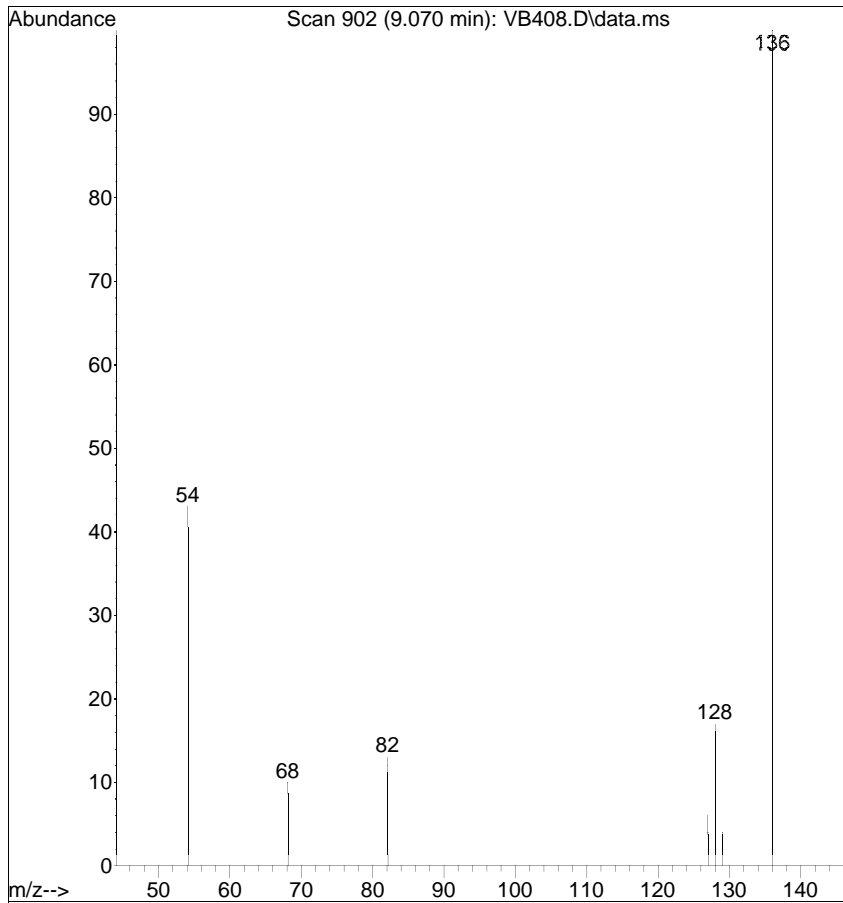
Tgt Ion	Resp	Lower	Upper
82	100		
128	44.4	10.5	50.5
54	194.1	56.2	96.2#



Ref

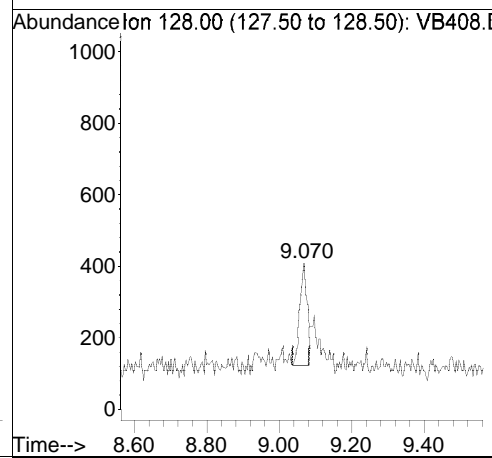


Raw

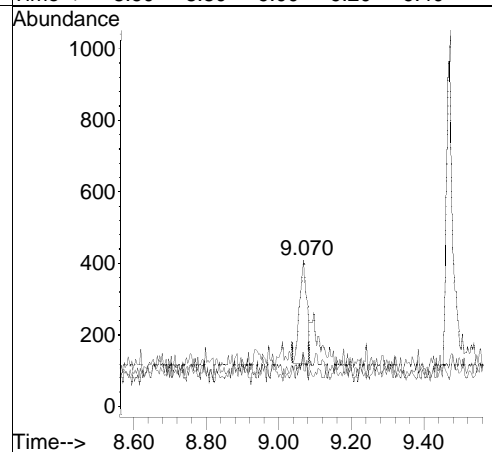
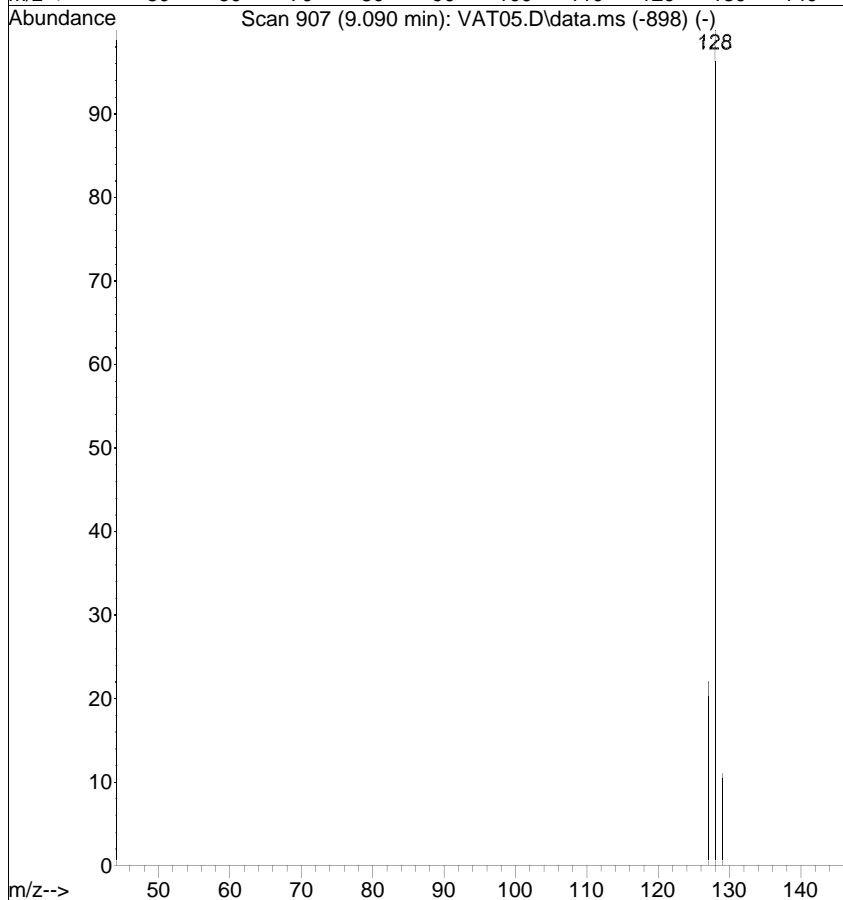


#5
 Naphthalene
 Concen: 0.0056 ug/mL
 RT: 9.070 min Scan# 902
 Delta R.T. -0.021 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

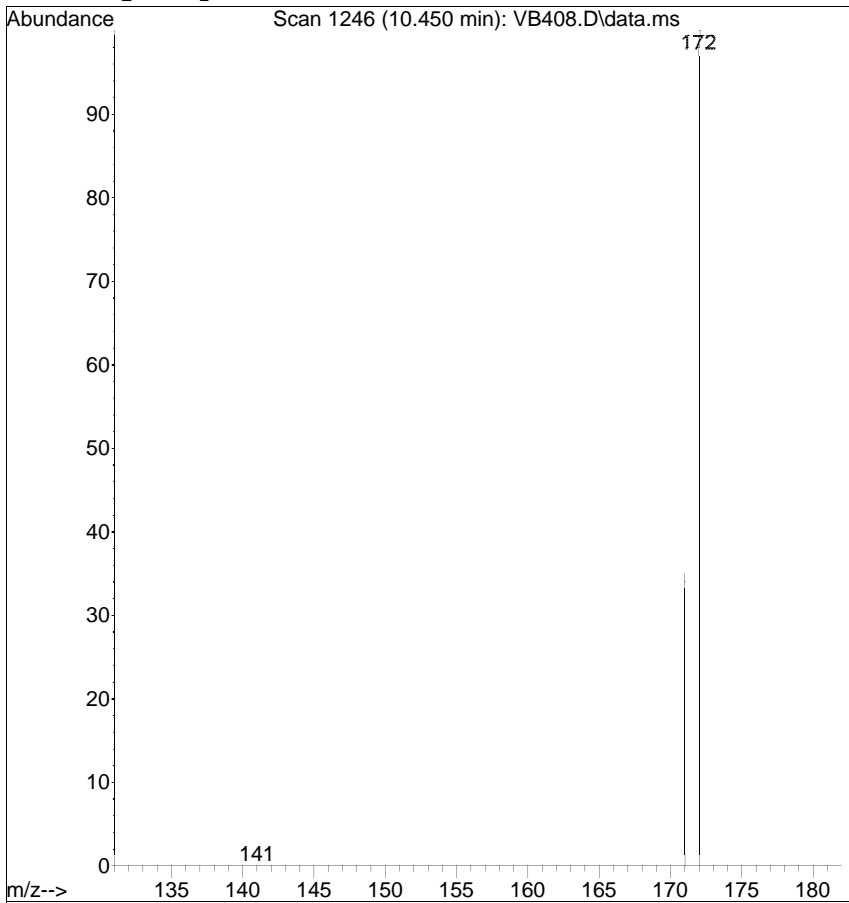
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	399		
129	24.3		0.0	31.1
127	33.3		0.0	34.0



Ref

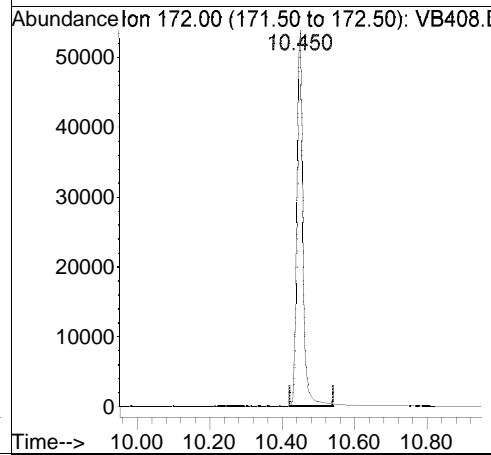


Raw

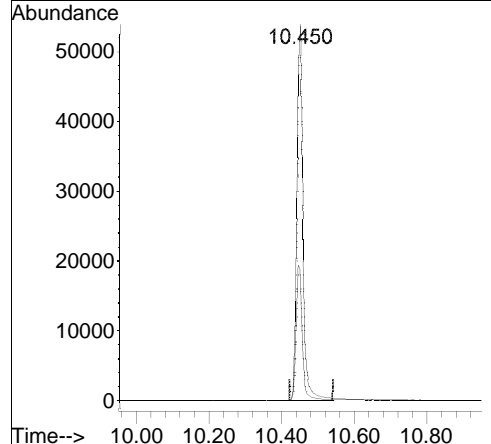
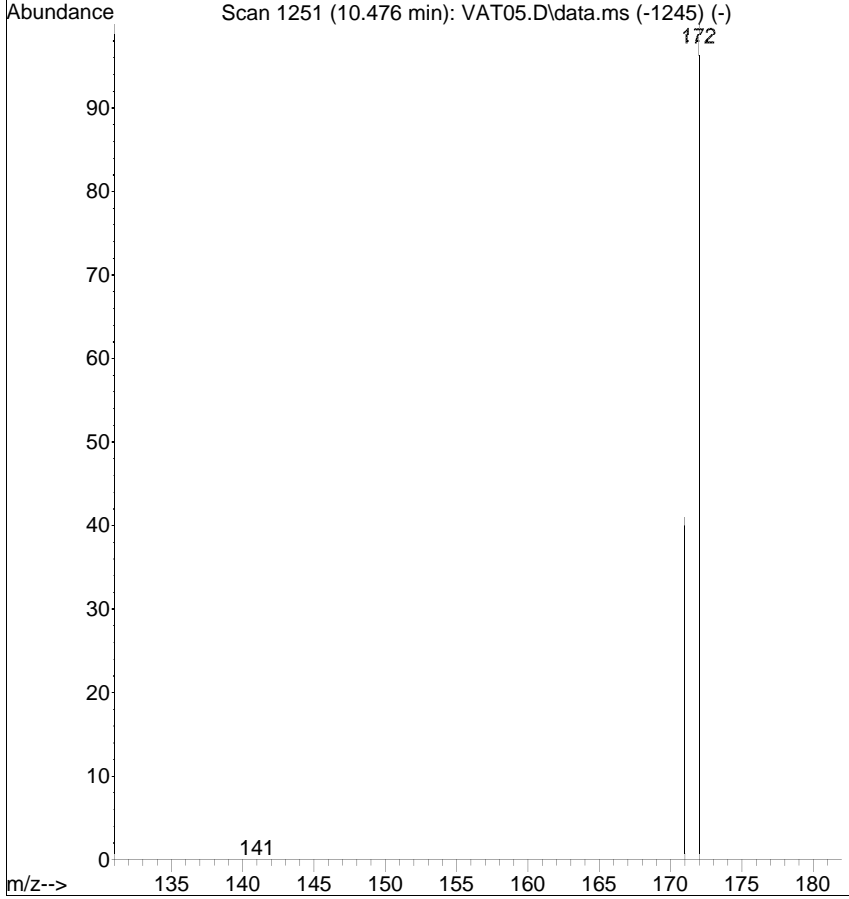


#9
 2-Fluorobiphenyl
 Concen: 0.7401 ug/mL
 RT: 10.450 min Scan# 1246
 Delta R.T. -0.026 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

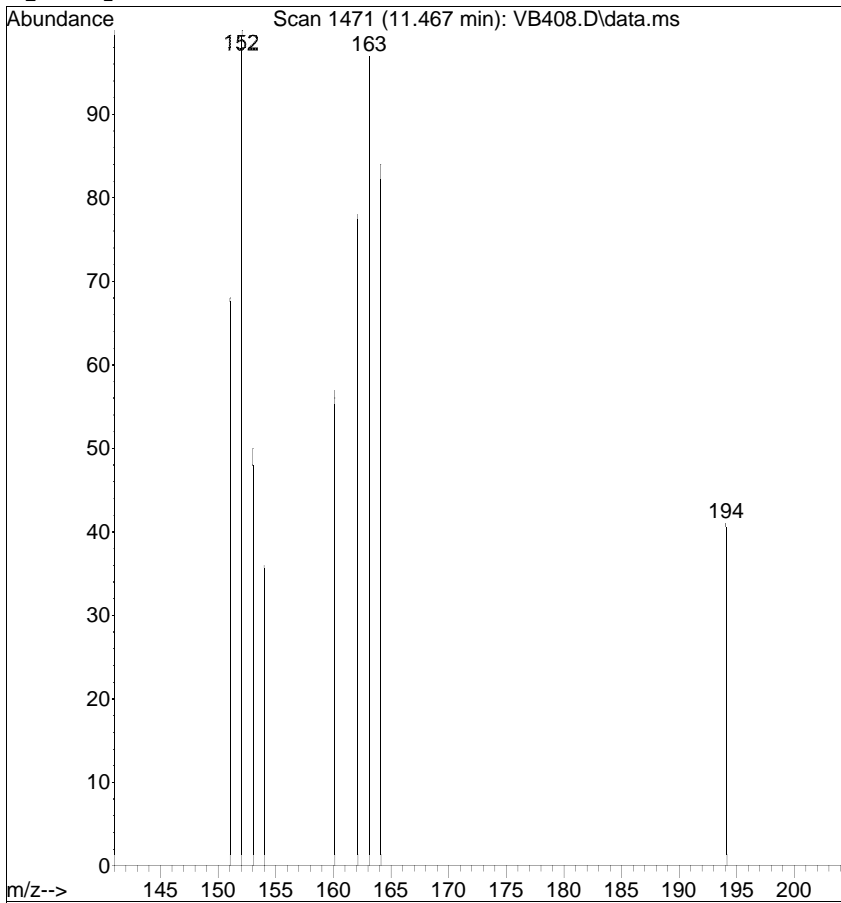
Tgt Ion	Resp	Lower	Upper
172	58599	100	100
171	35.2	14.4	54.4



Ref

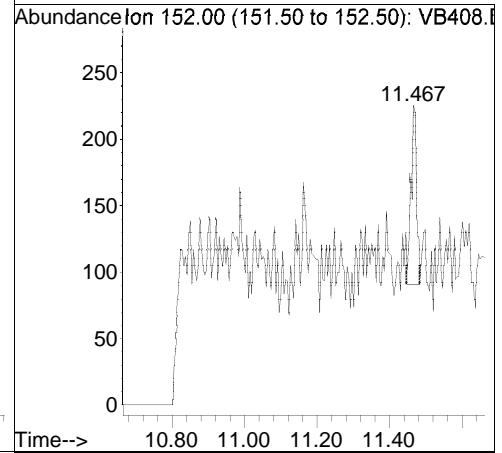


Raw

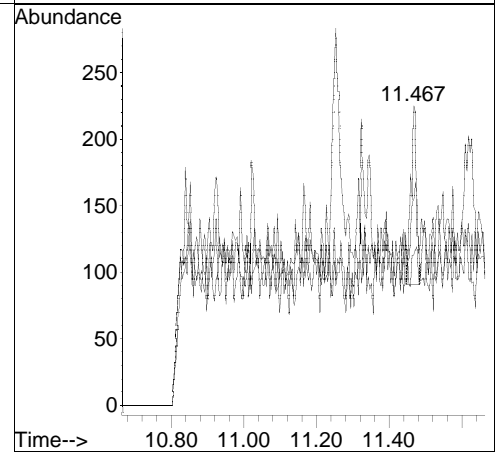
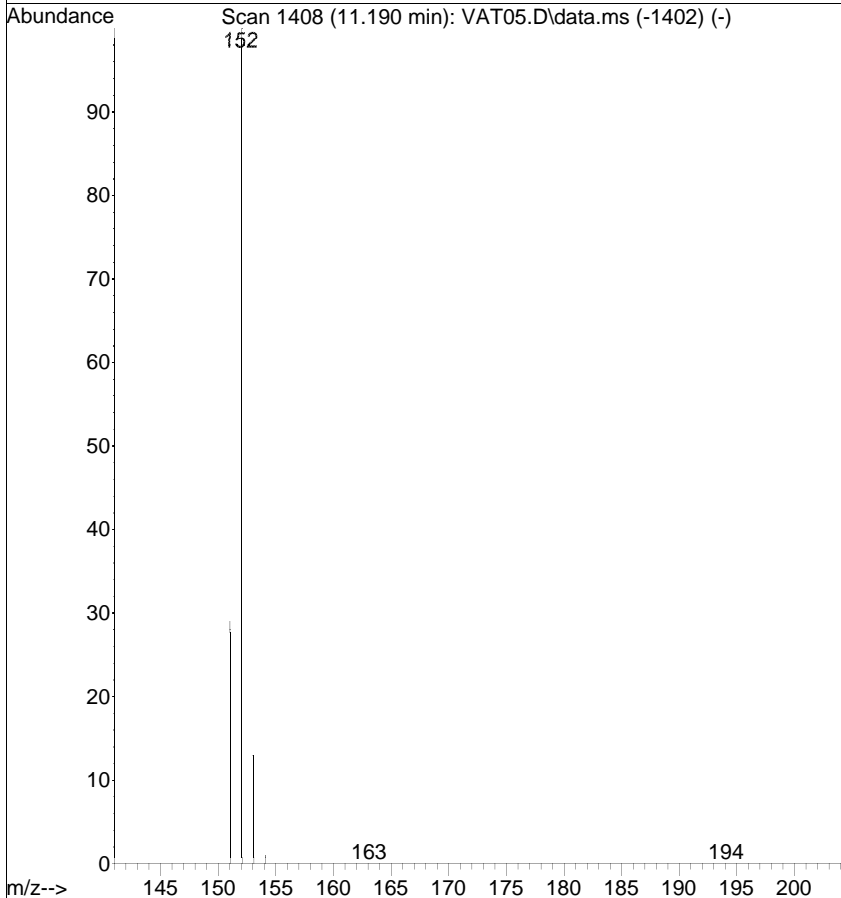


#10
 Acenaphthylene
 Concen: 0.0018 ug/mL
 RT: 11.467 min Scan# 1471
 Delta R.T. 0.277 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

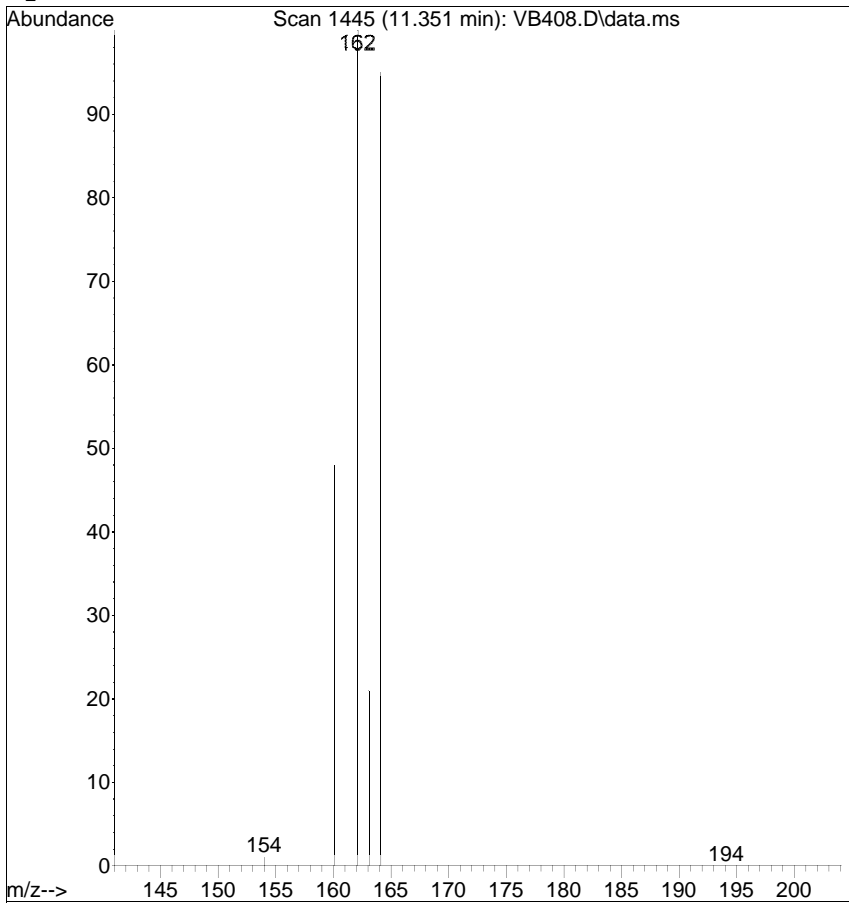
Tgt Ion	Resp	Lower	Upper
152	100		
151	68.4	1.0	41.0#
153	50.2	0.0	33.1#



Ref

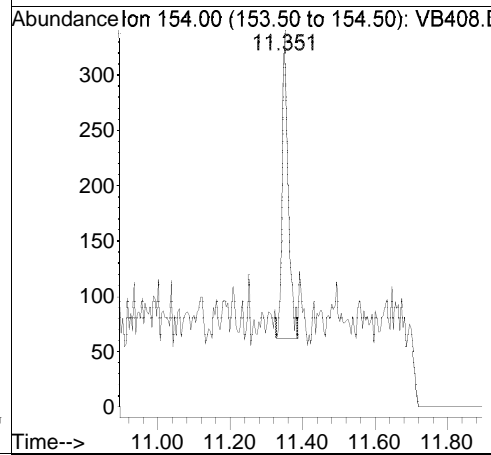


Raw

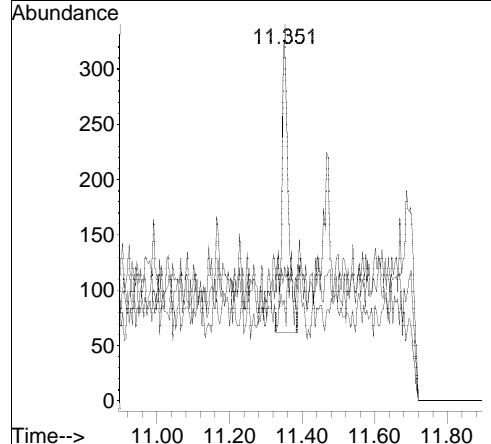
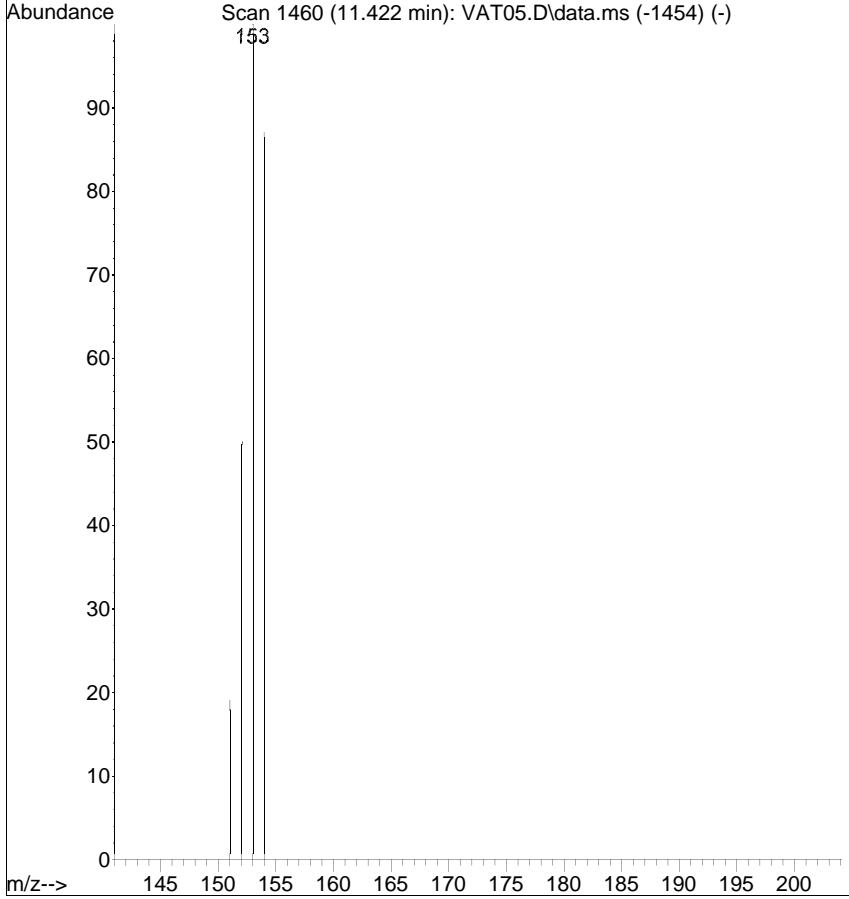


#11
 Acenaphthene
 Concen: 0.0063 ug/mL
 RT: 11.351 min Scan# 1445
 Delta R.T. -0.071 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

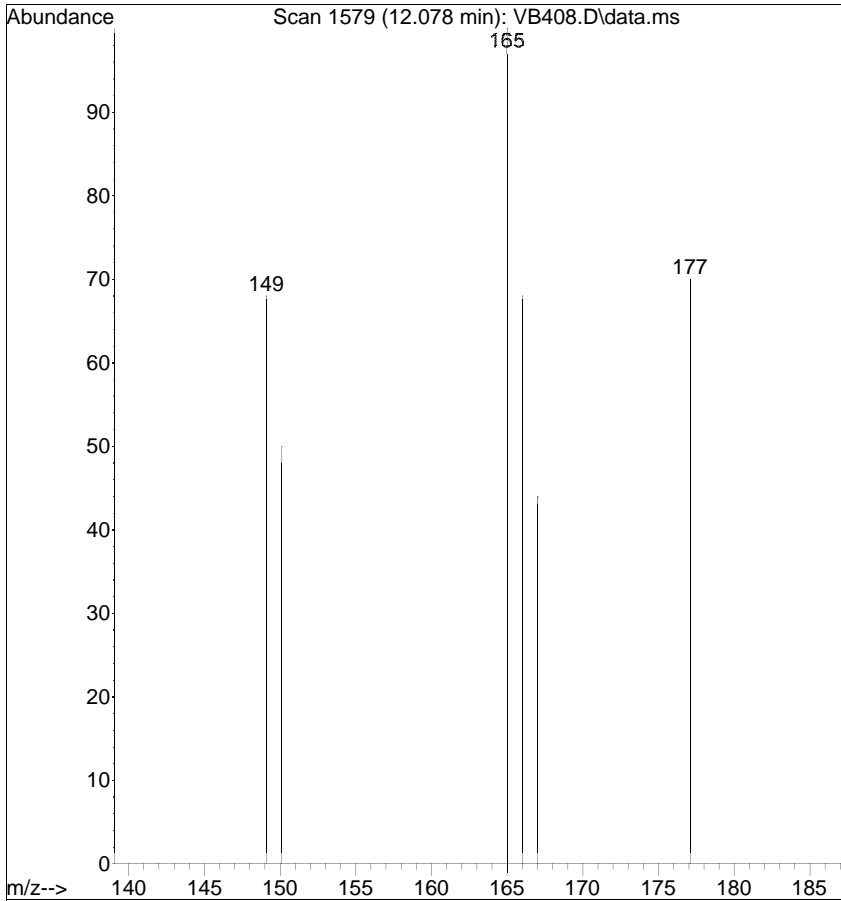
Tgt Ion	Ratio	Lower	Upper
154	100		
152	35.9	35.4	75.4
153	27.1	96.8	136.8#



Ref

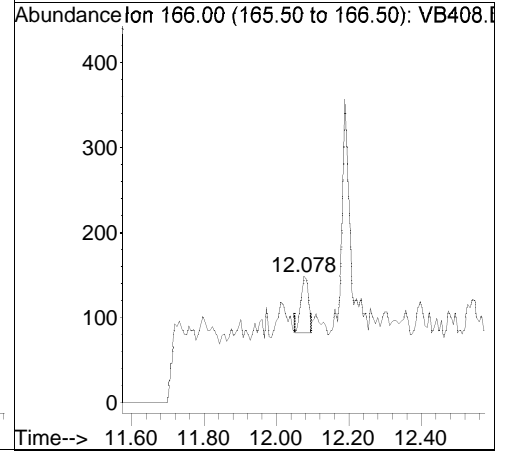


Raw

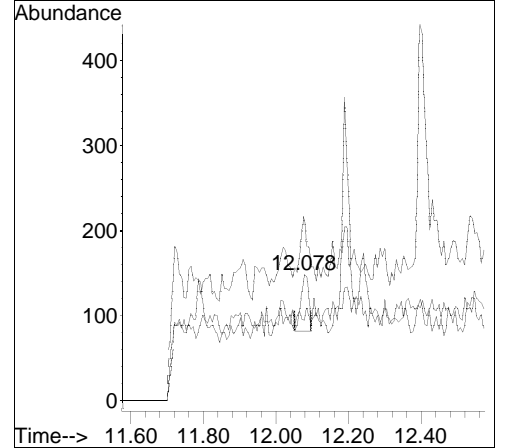
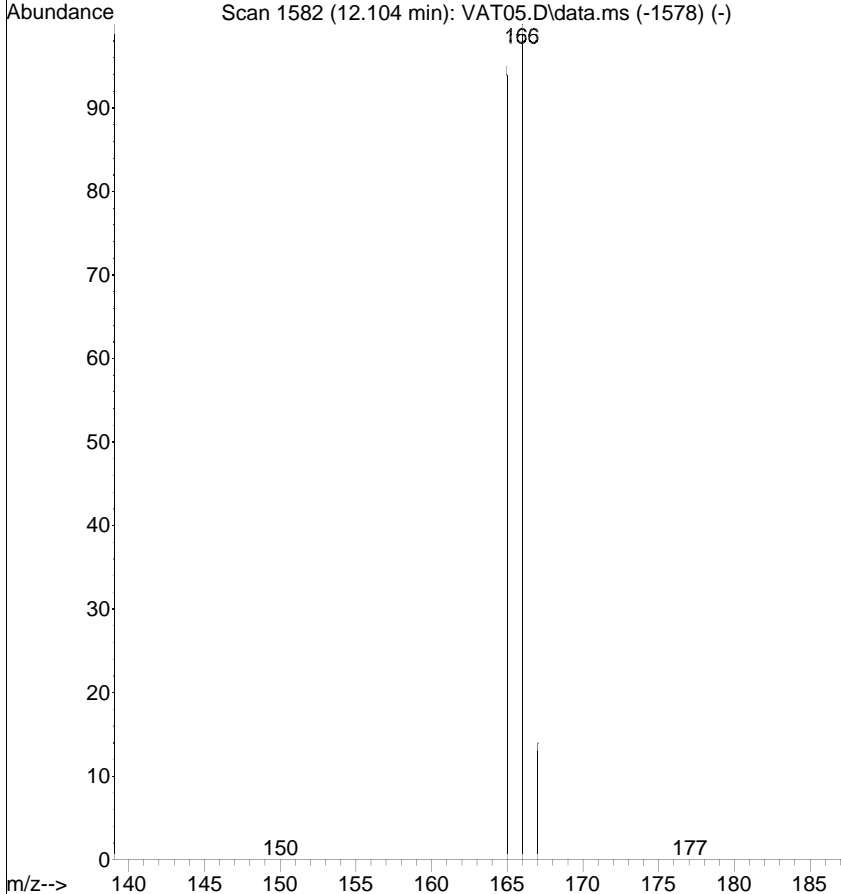


#12
 Fluorene
 Concen: 0.0017 ug/mL
 RT: 12.078 min Scan# 1579
 Delta R.T. -0.026 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

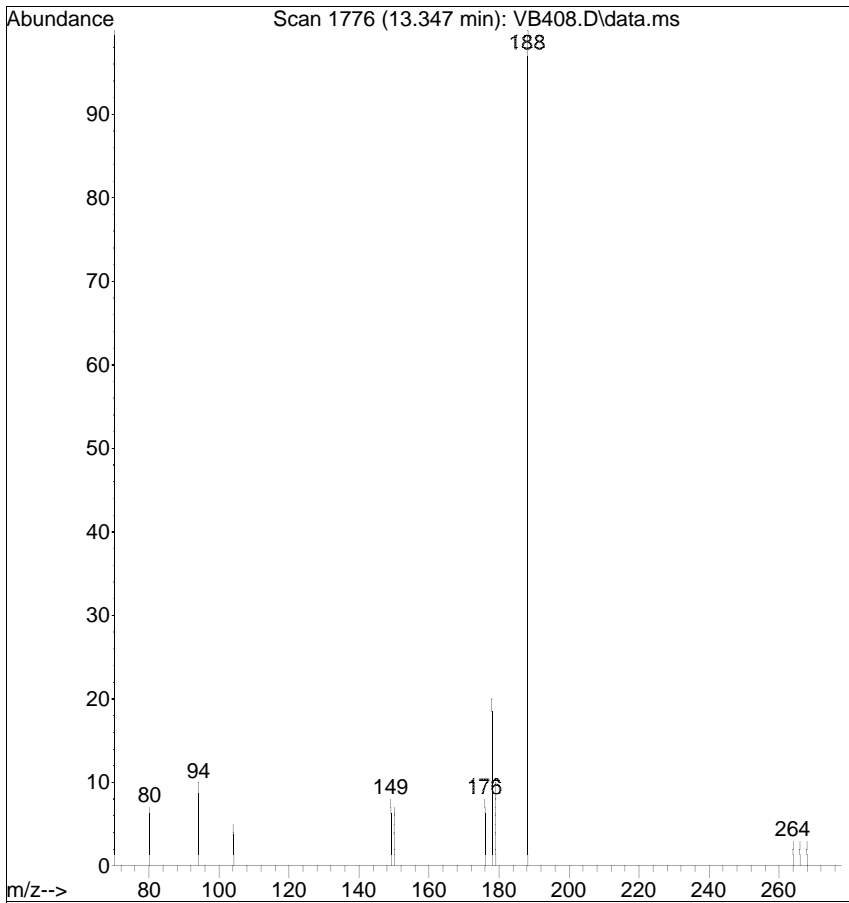
Tgt Ion	Resp	Lower	Upper
166	100		
165	146.6	74.9	114.9#
167	64.2	0.0	33.9#



Ref

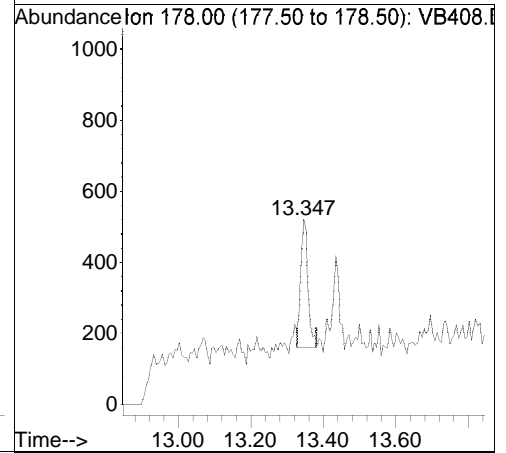


Raw

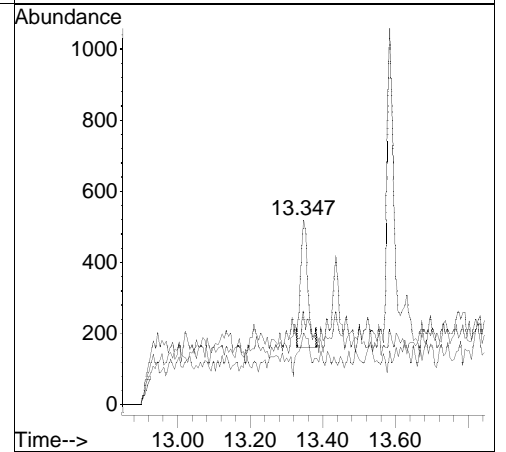
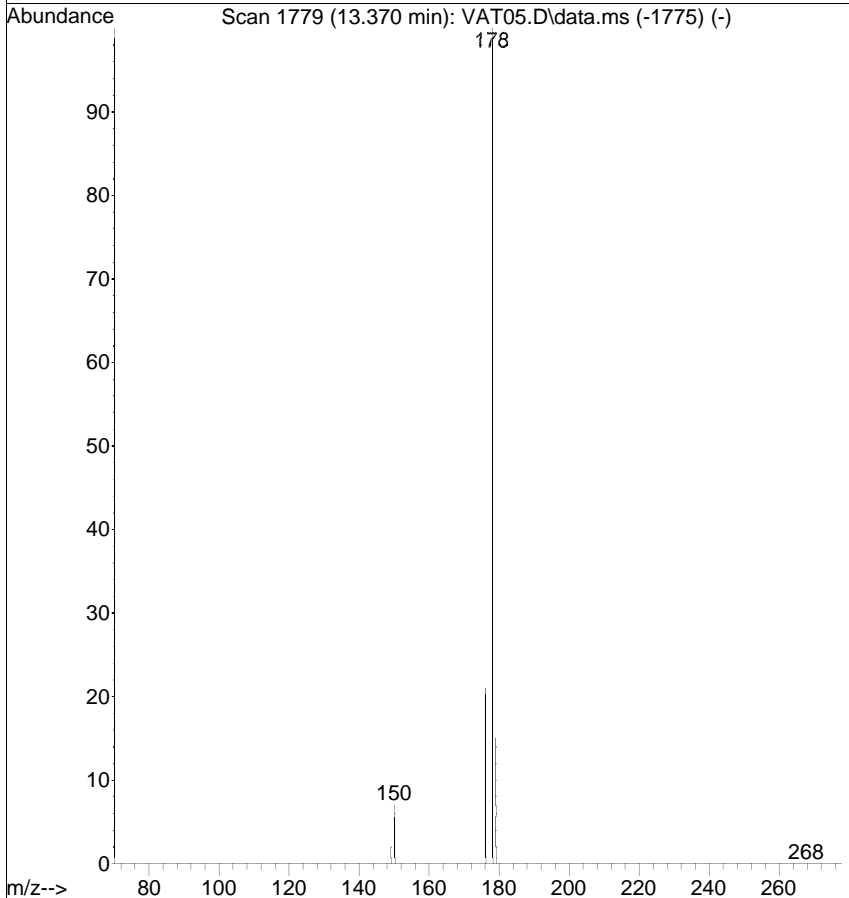


#15
 Phenanthrene
 Concen: 0.0052 ug/mL
 RT: 13.347 min Scan# 1776
 Delta R.T. -0.024 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

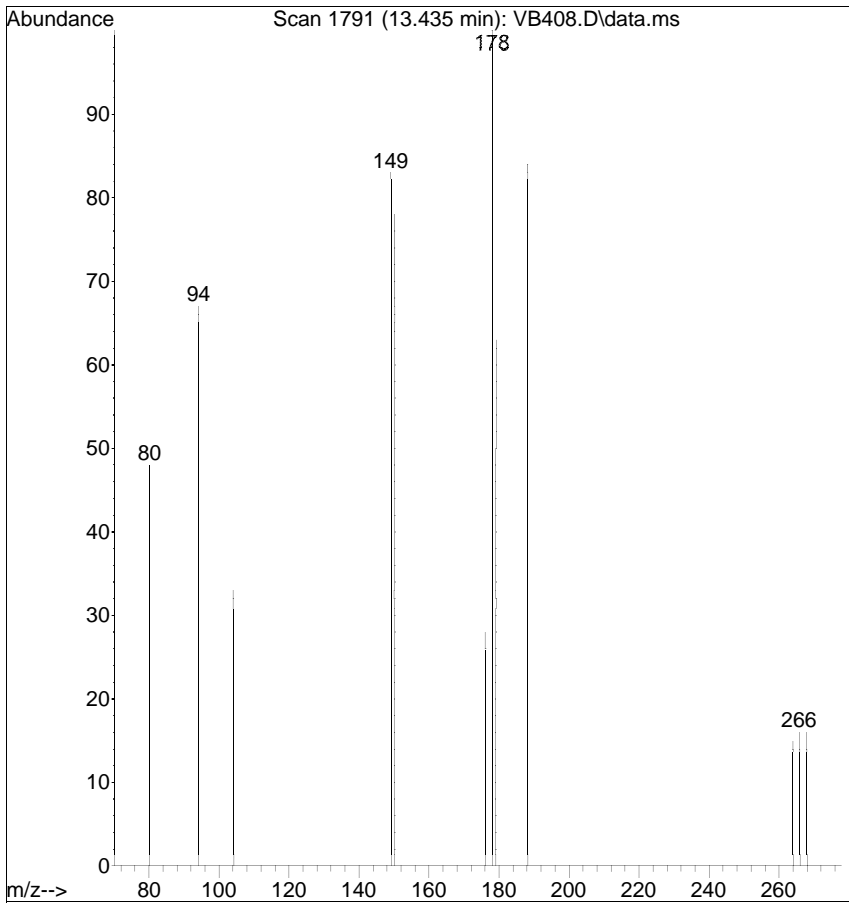
Tgt Ion	Ratio	Lower	Upper
178	100		
179	51.1	0.0	35.0#
176	38.9	0.0	38.9#



Ref

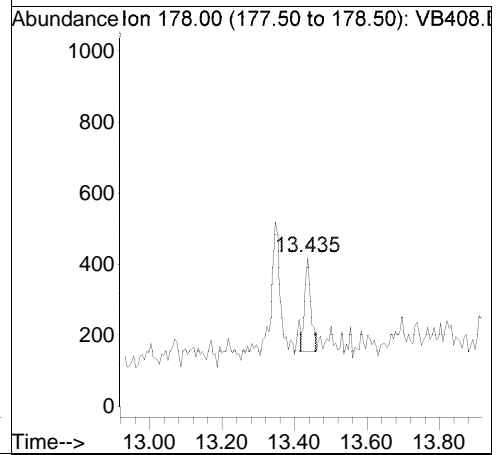


Raw

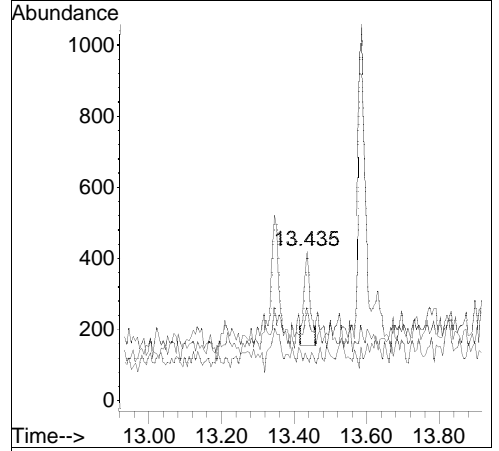
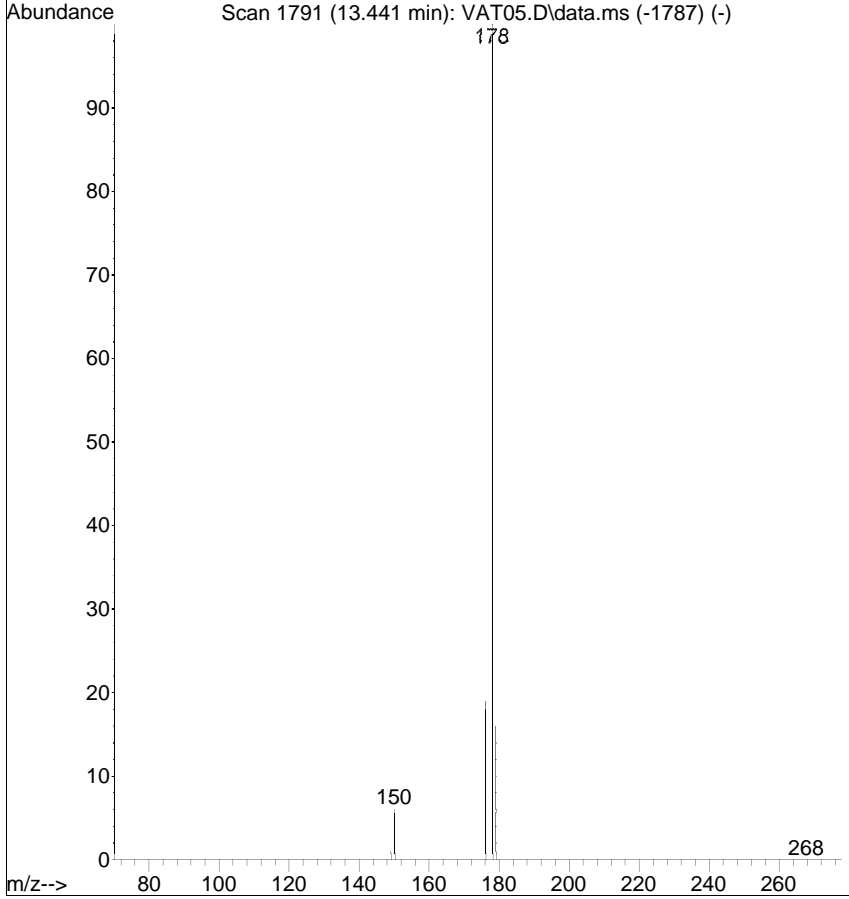


#16
 Anthracene
 Concen: 0.0035 ug/mL
 RT: 13.435 min Scan# 1791
 Delta R.T. -0.006 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

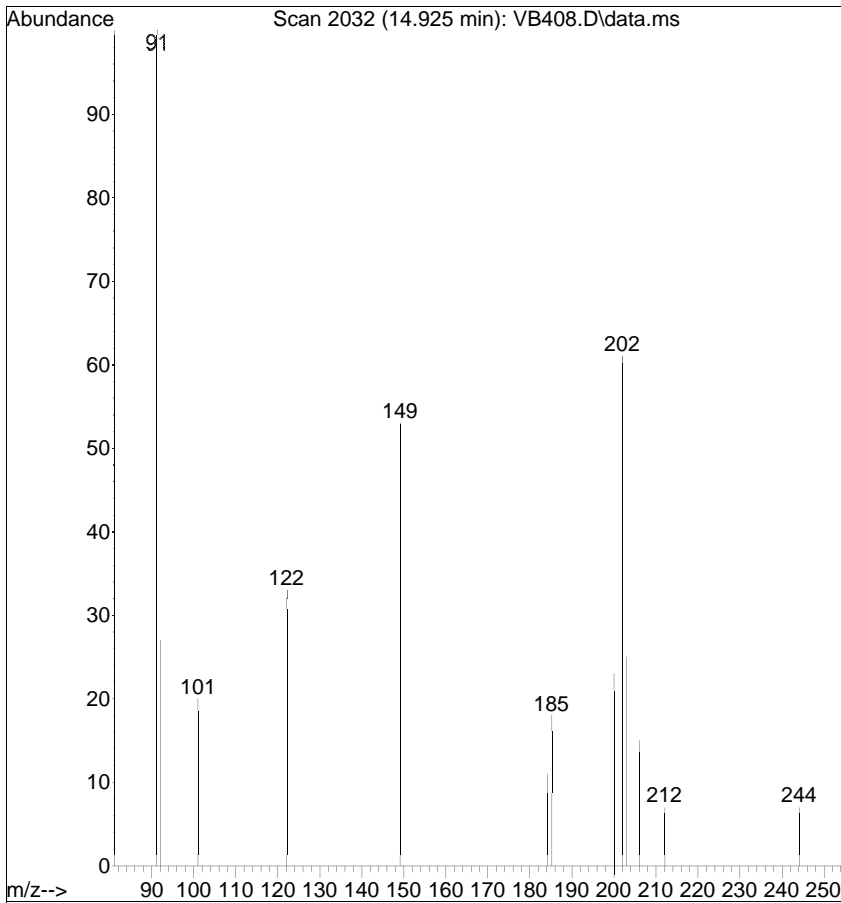
Tgt Ion	Ratio	Lower	Upper
178	100		
179	62.9	0.0	34.4#
176	28.3	0.0	39.5



Ref

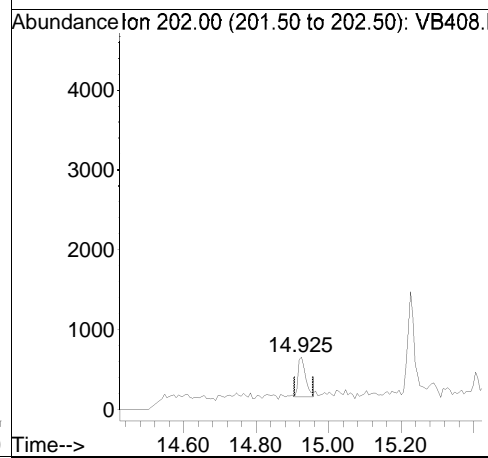


Raw

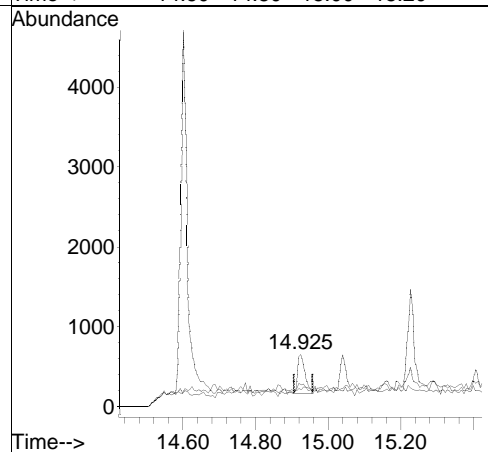
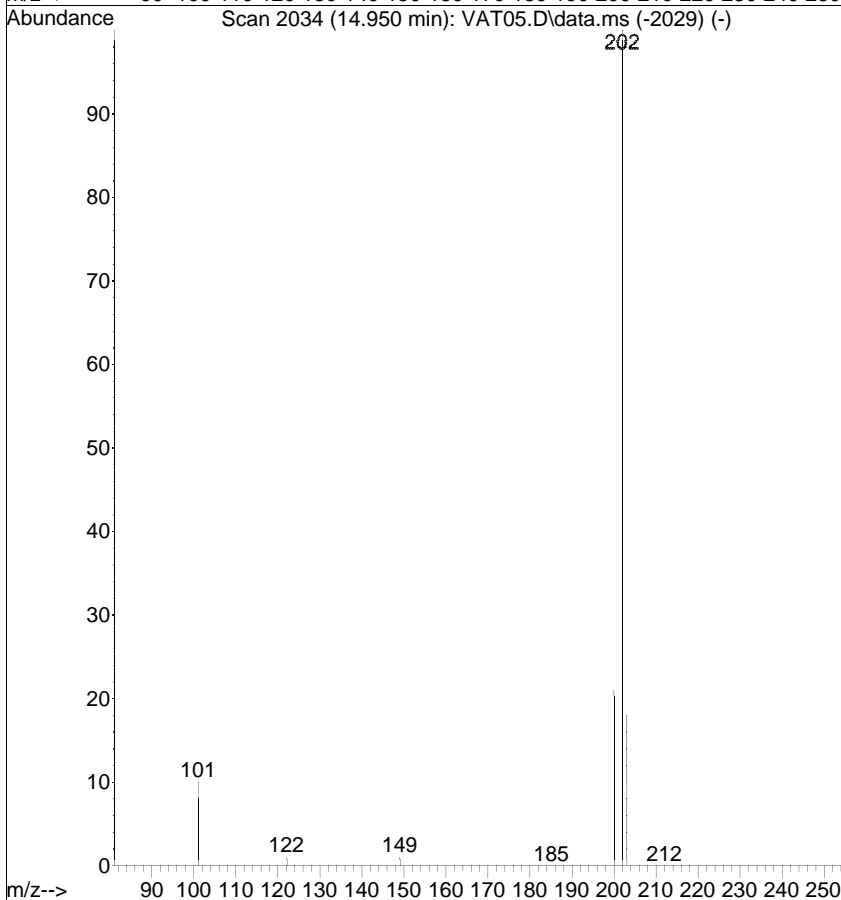


#17
 Fluoranthene
 Concen: 0.0064 ug/mL
 RT: 14.925 min Scan# 2032
 Delta R.T. -0.025 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

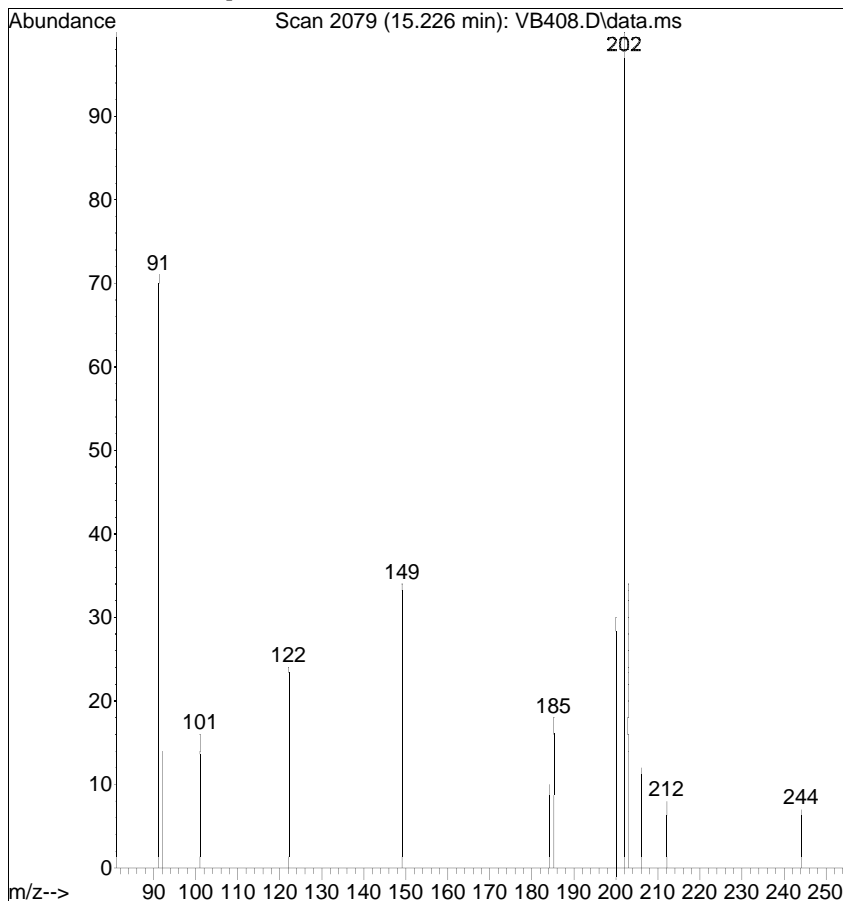
Tgt Ion	Resp	Lower	Upper
202	717		
101	32.8	0.0	21.1#
203	41.5	0.0	37.0#



Ref

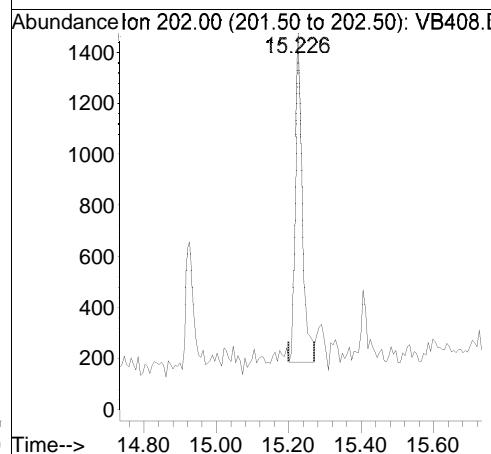


Raw

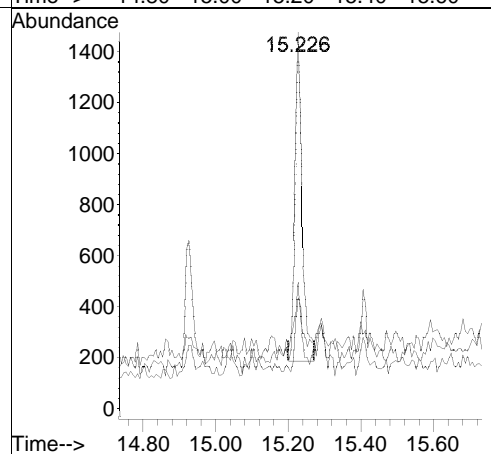
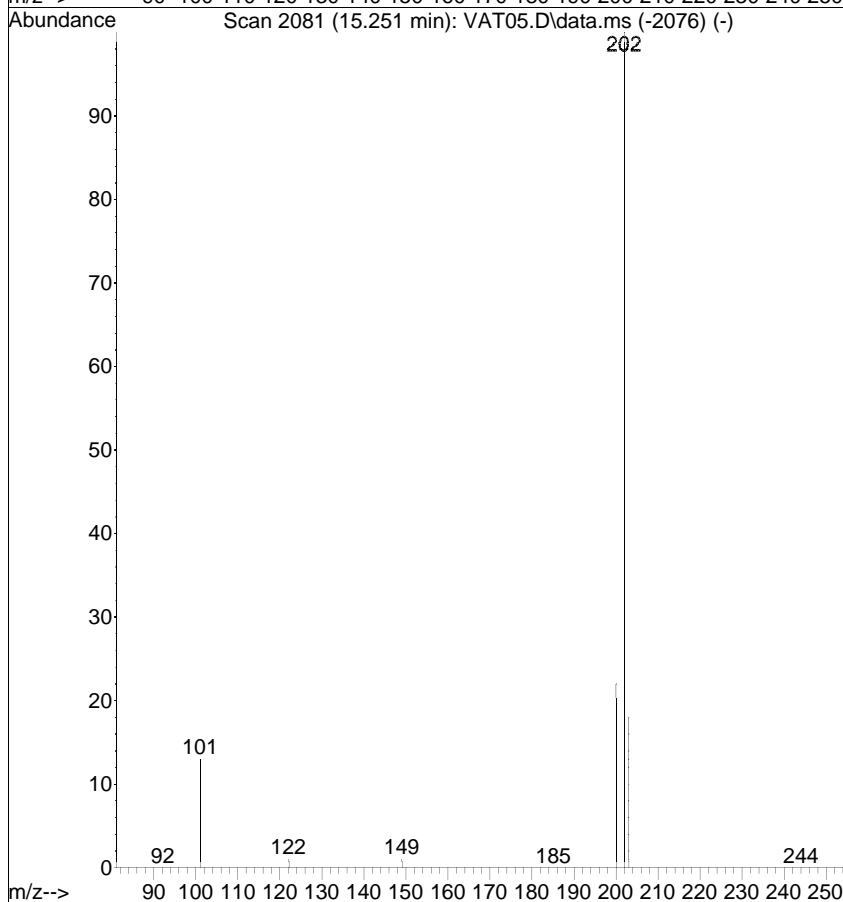


#19
 Pyrene
 Concen: 0.0164 ug/mL
 RT: 15.226 min Scan# 2079
 Delta R.T. -0.025 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

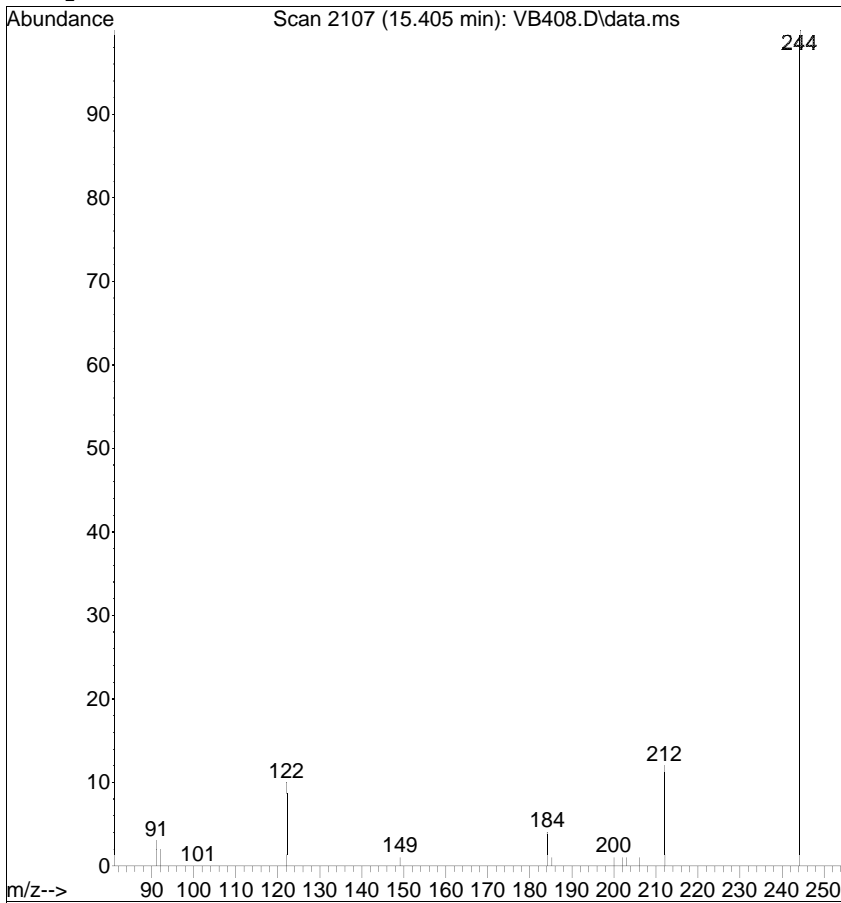
Tgt Ion	Resp	Lower	Upper
202	1704		
200	29.6	1.1	41.1
203	33.5	0.0	37.7



Ref

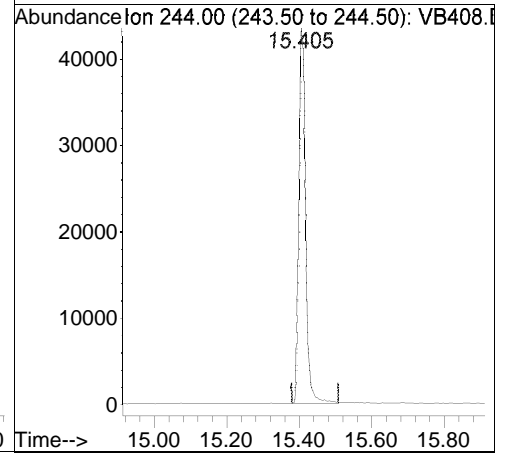


Raw

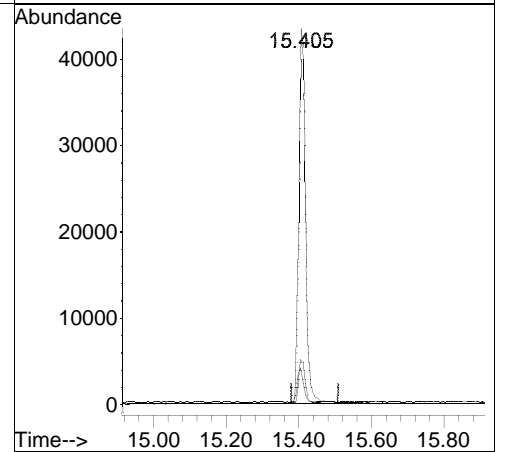
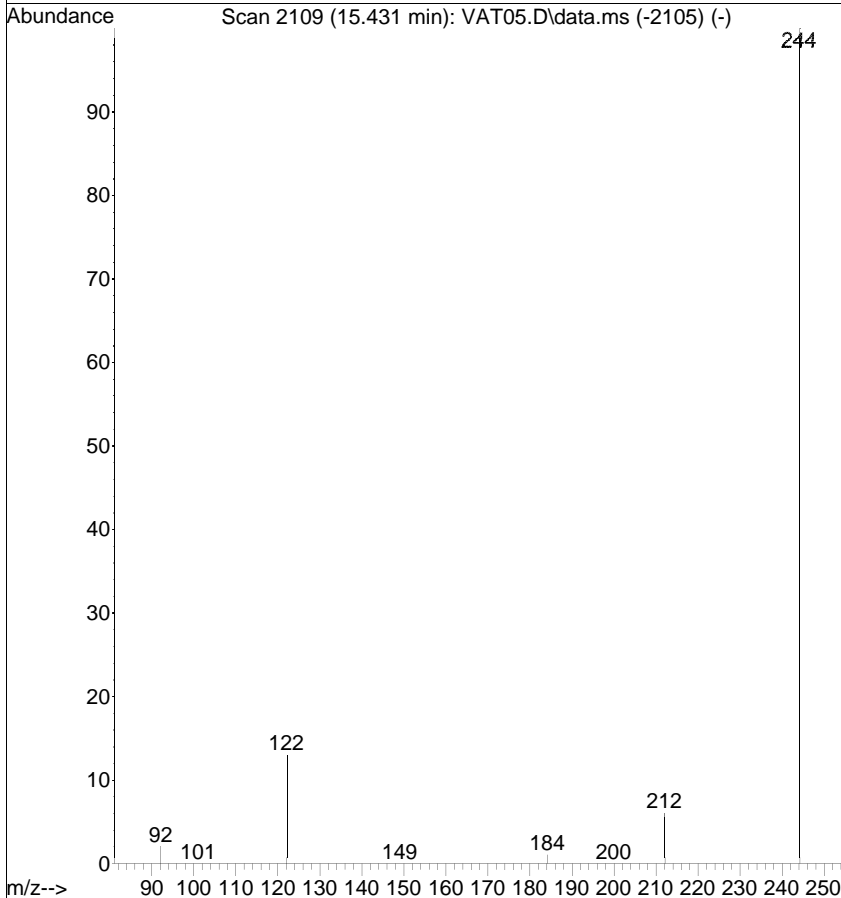


#20
 Terphenyl-d14
 Concen: 0.5959 ug/mL
 RT: 15.405 min Scan# 2107
 Delta R.T. -0.025 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

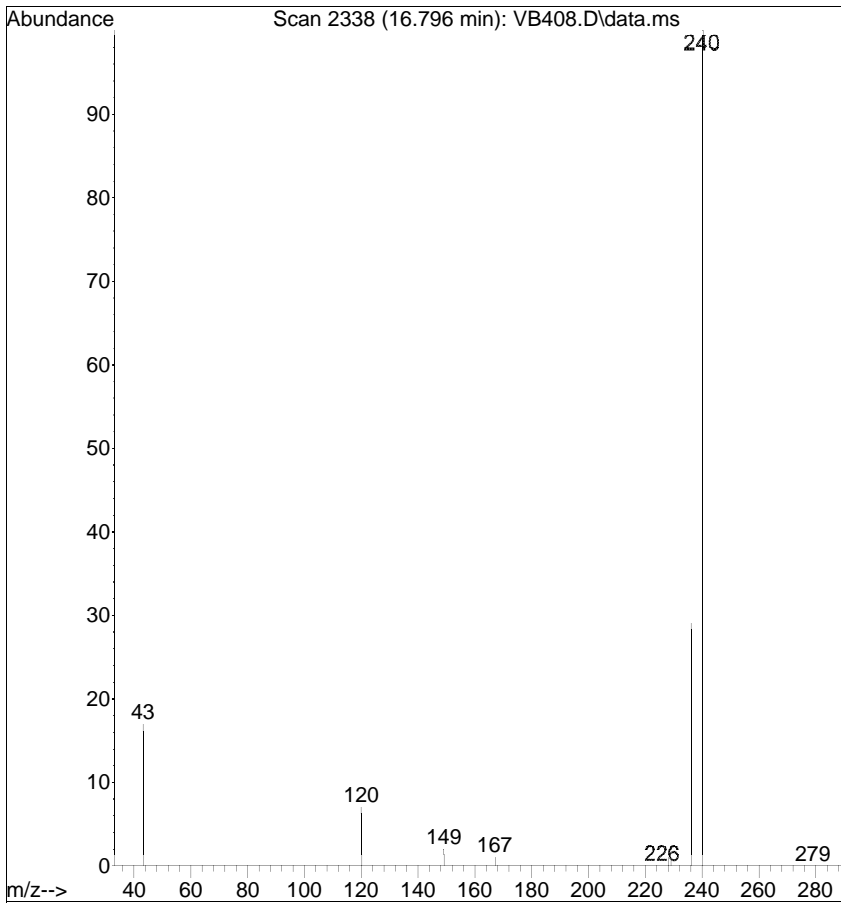
Tgt Ion	Resp	Lower	Upper
244	100		
122	9.9	0.0	25.0
212	12.1	0.0	31.4



Ref

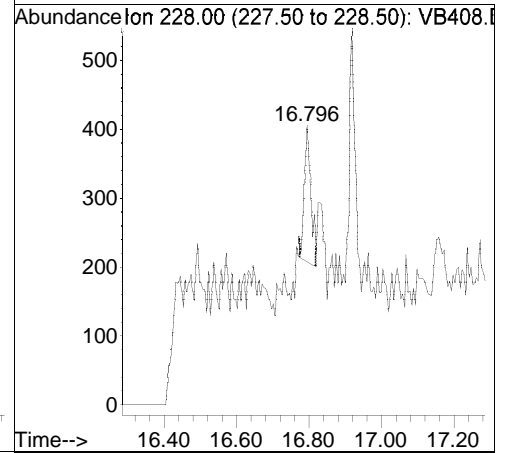


Raw

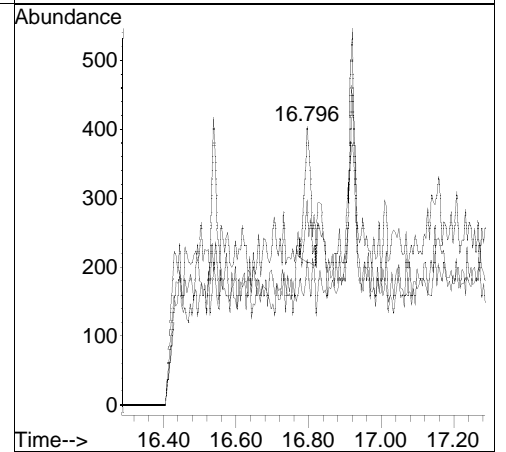
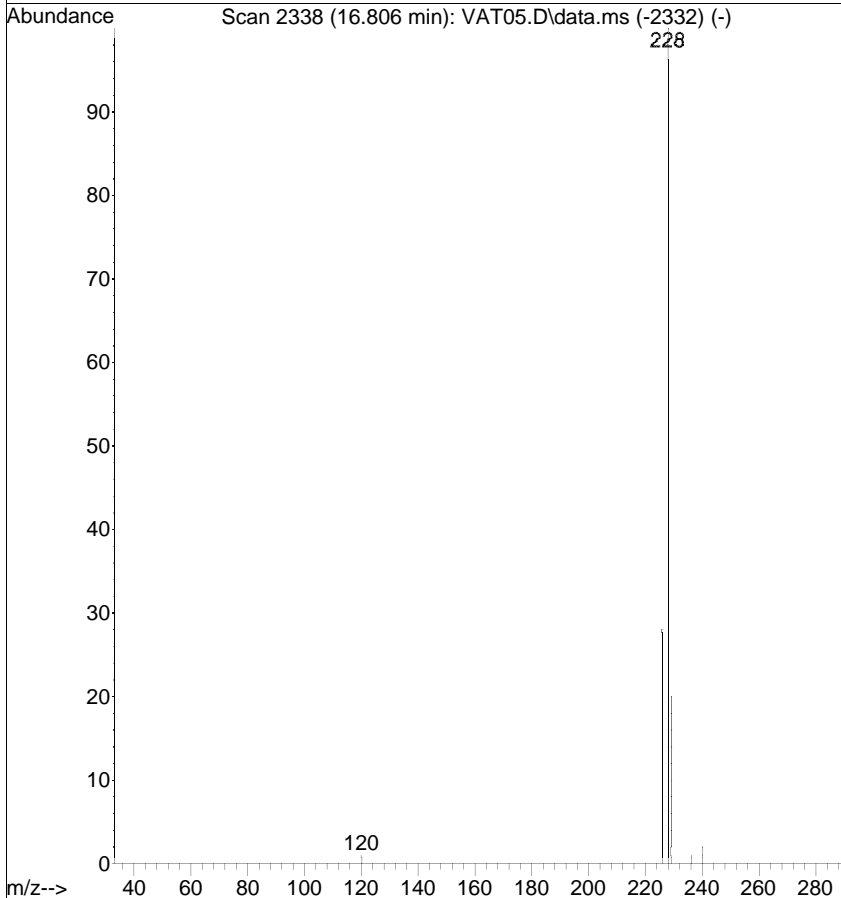


#21
 Benzo(a)anthracene
 Concen: 0.0026 ug/mL
 RT: 16.796 min Scan# 2338
 Delta R.T. -0.010 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

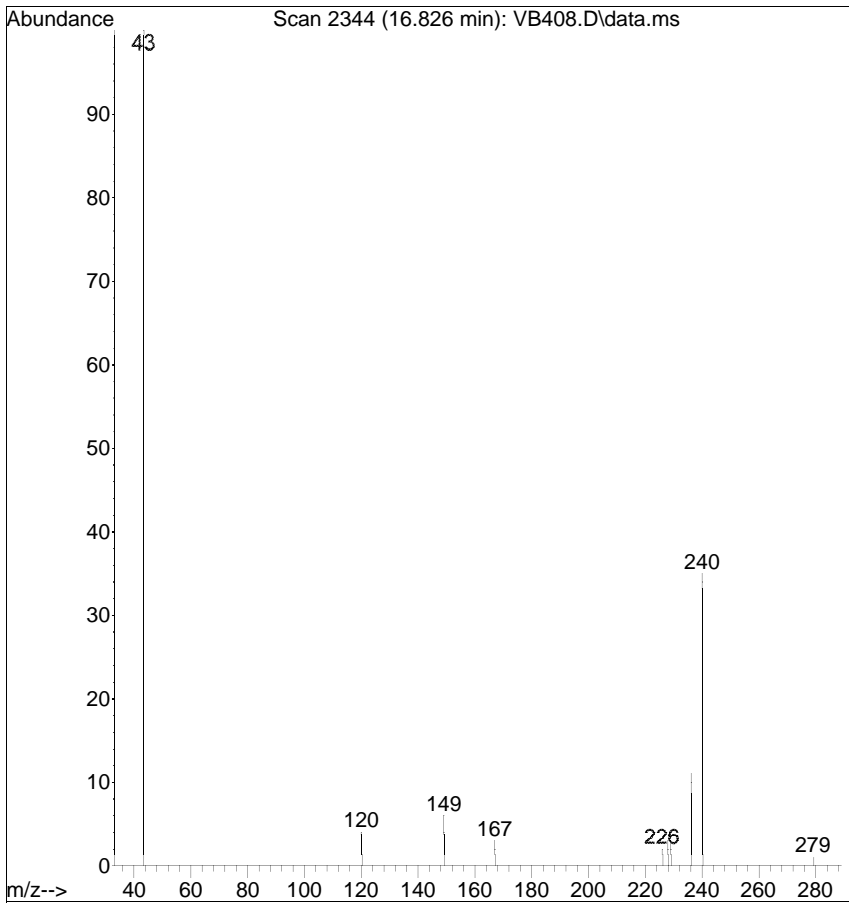
Tgt Ion	Ratio	Lower	Upper
228	100		
229	73.3	0.1	40.1#
226	52.3	9.3	49.3#



Ref

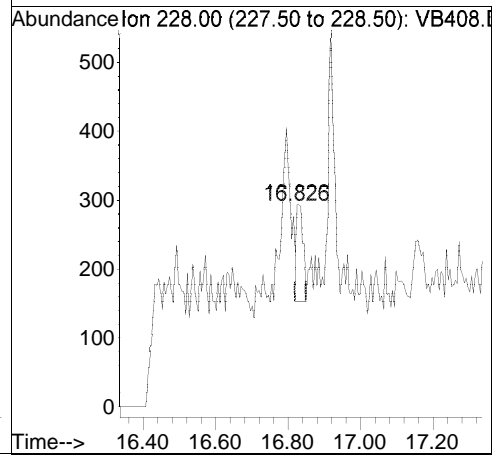


Raw

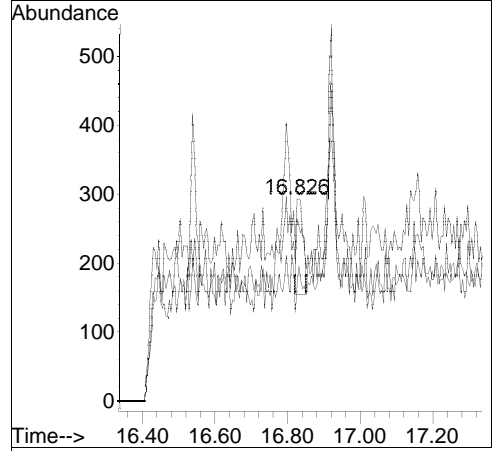
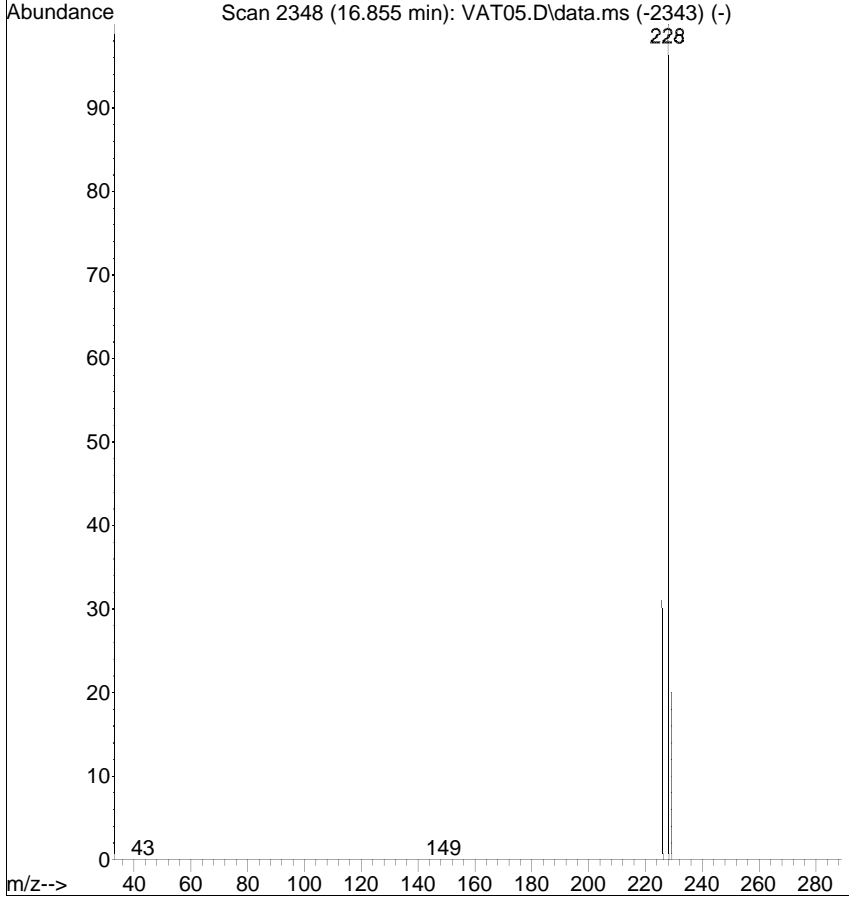


#22
 Chrysene
 Concen: 0.0019 ug/mL
 RT: 16.826 min Scan# 2344
 Delta R.T. -0.030 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

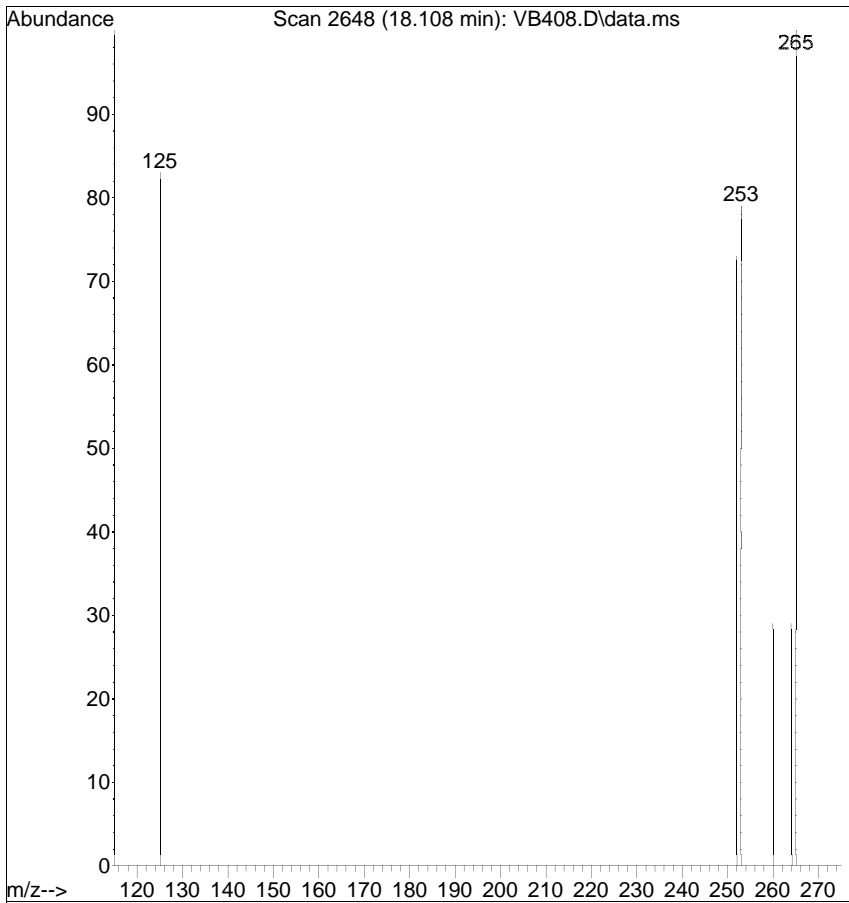
Tgt Ion	Ratio	Lower	Upper
228	100		
226	58.4	13.4	53.4#
229	90.1	0.8	40.8#



Ref

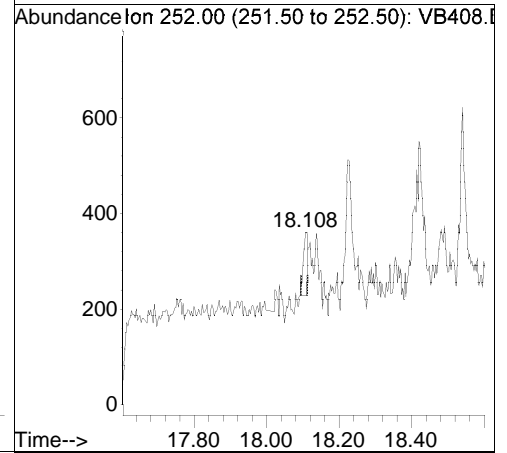


Raw

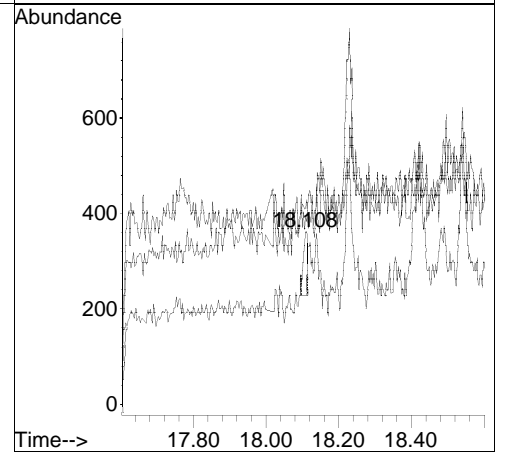
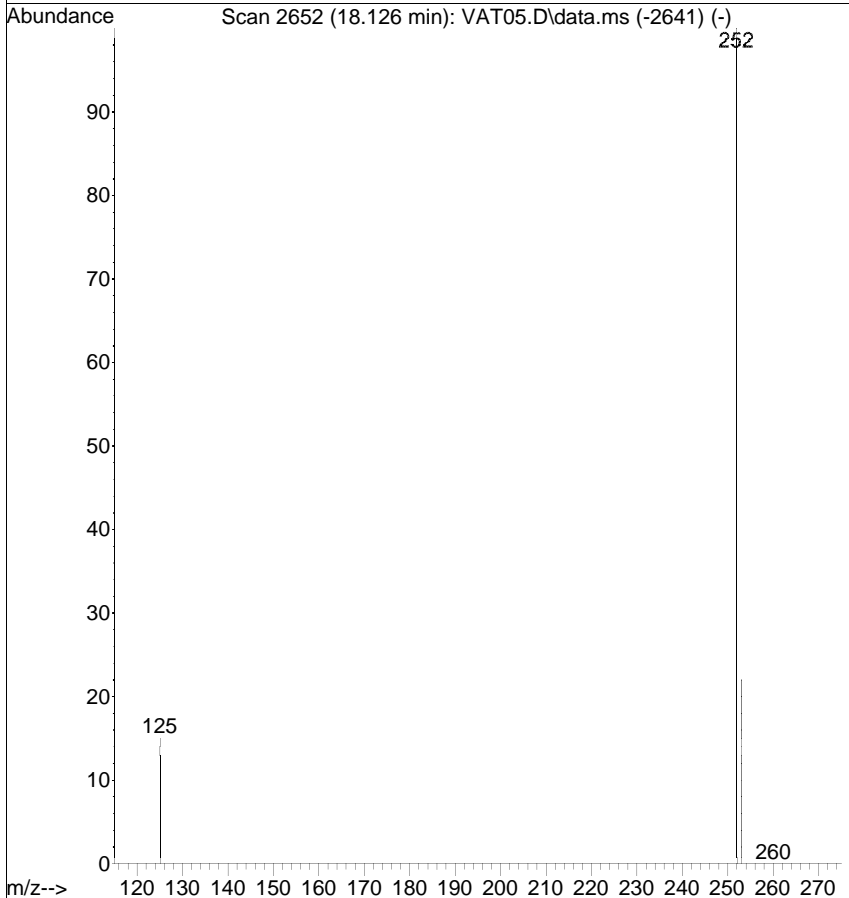


#24
 Benzo(b)fluoranthene
 Concen: 0.0010 ug/mL
 RT: 18.108 min Scan# 2648
 Delta R.T. -0.017 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

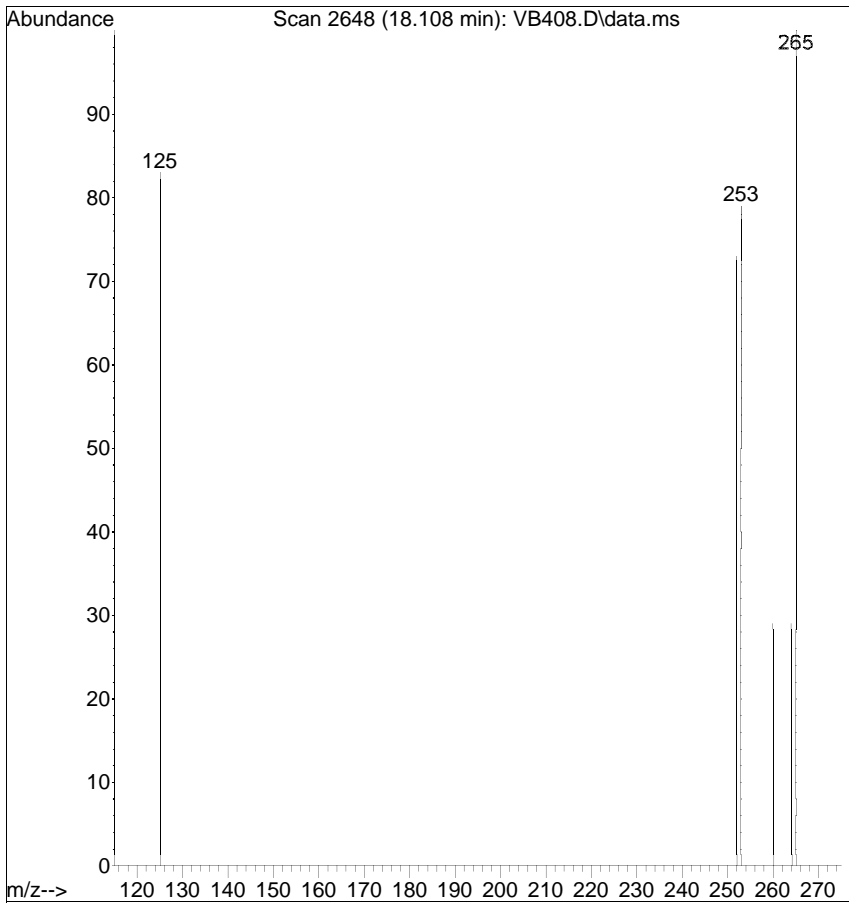
Tgt Ion	Resp	Lower	Upper
252	110		
253	108.6	1.0	41.0#
125	113.8	0.0	20.9#



Ref

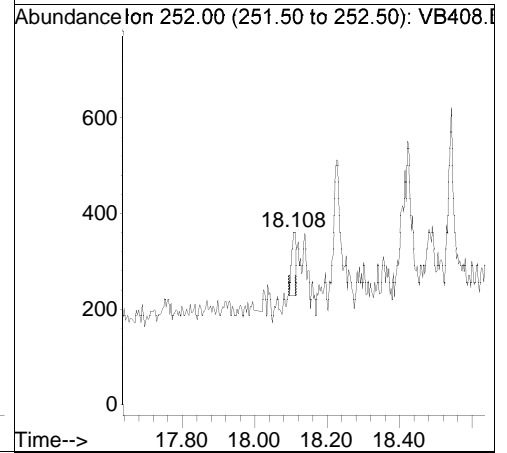


Raw

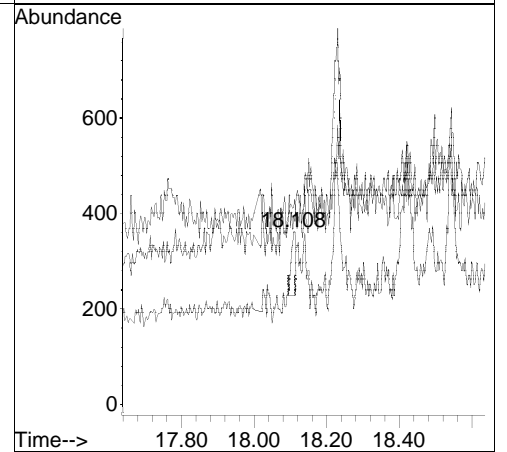
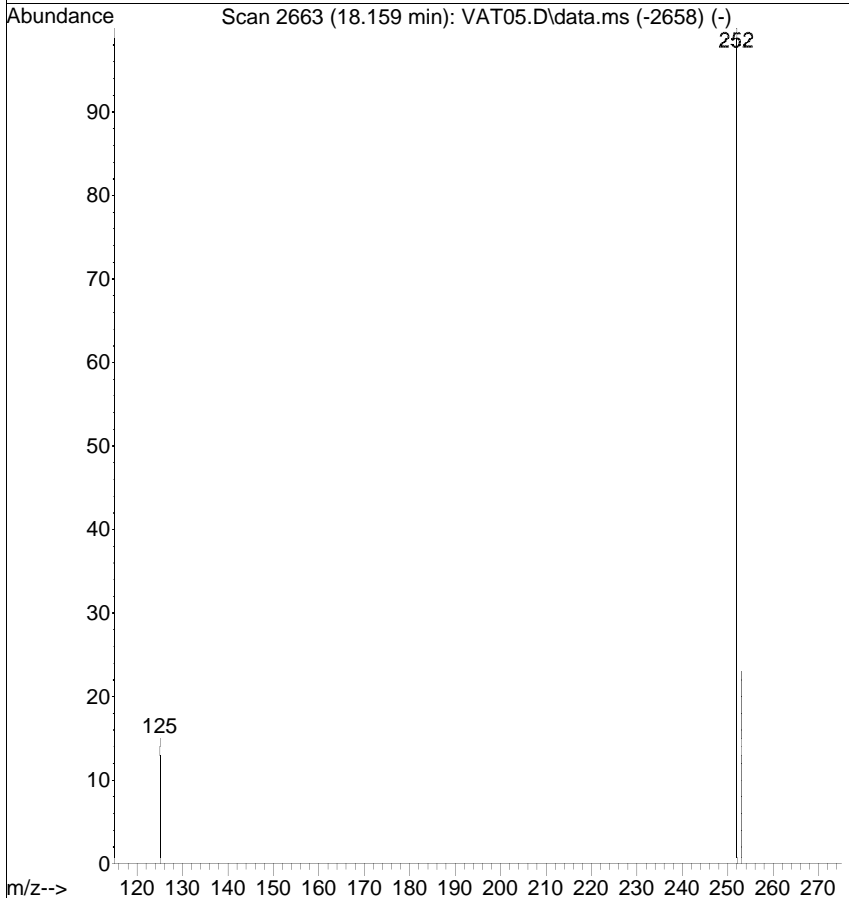


#25
 Benzo(k)fluoranthene
 Concen: 0.0011 ug/mL
 RT: 18.108 min Scan# 2648
 Delta R.T. -0.050 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

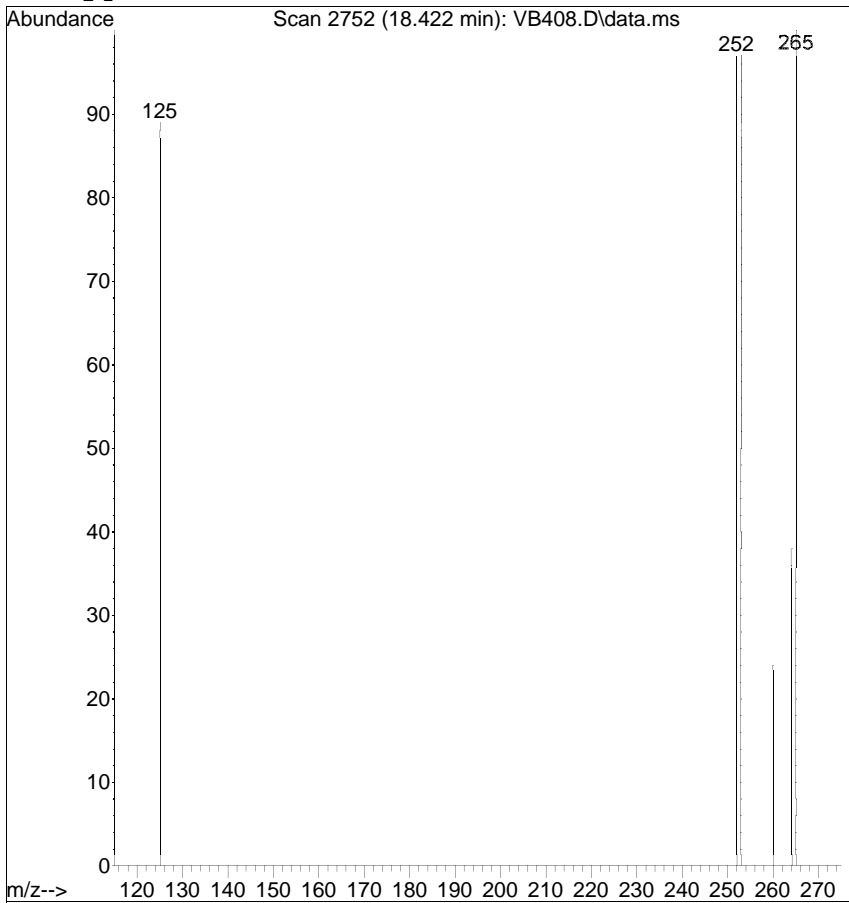
Tgt Ion	Resp	Lower	Upper
252	110		
253	108.6	1.1	41.1#
125	113.8	0.0	21.1#



Ref

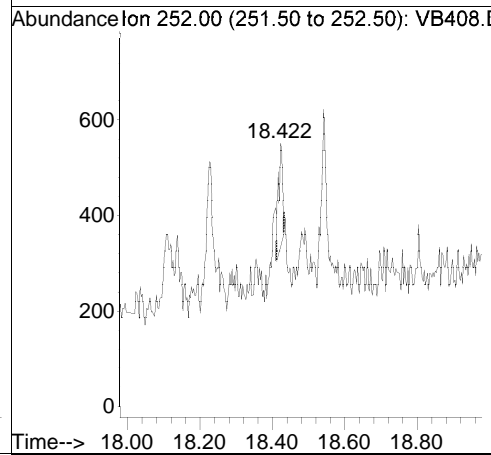


Raw

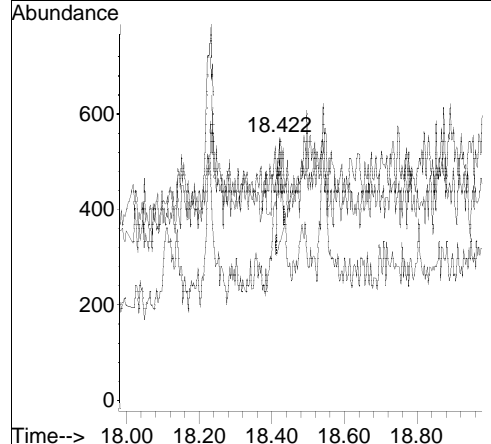
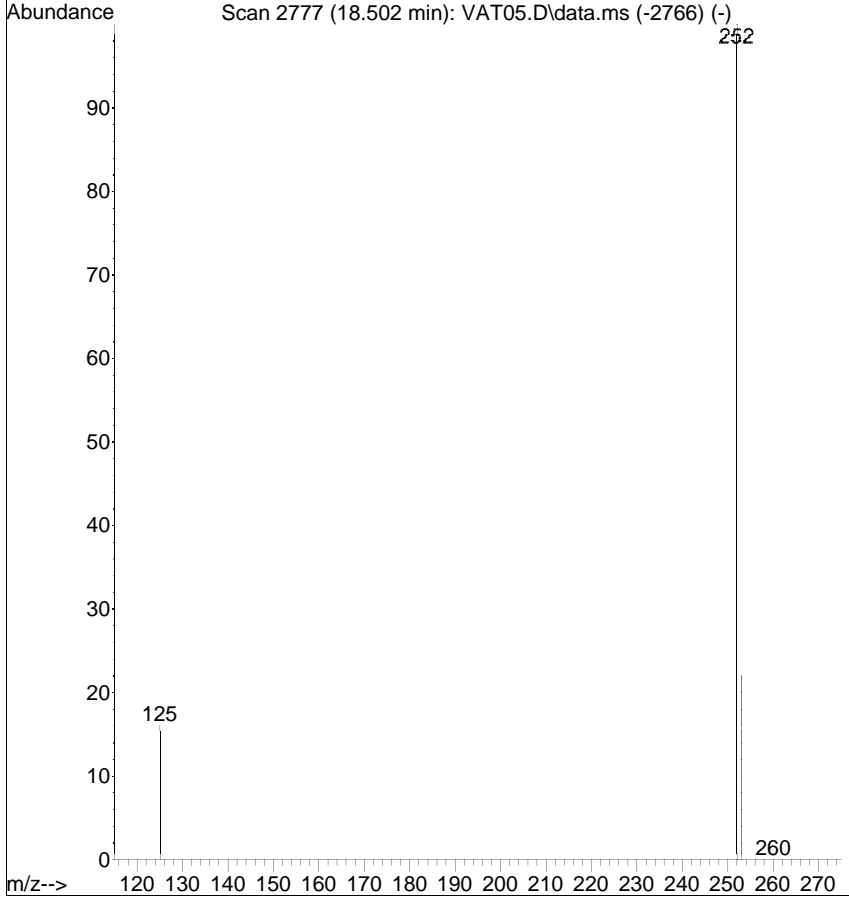


#26
 Benzo(a)pyrene
 Concen: 0.0018 ug/mL
 RT: 18.422 min Scan# 2752
 Delta R.T. -0.080 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

Tgt Ion	Resp	Lower	Upper
252	100		
253	100.0	3.4	43.4#
125	91.7	0.0	20.9#

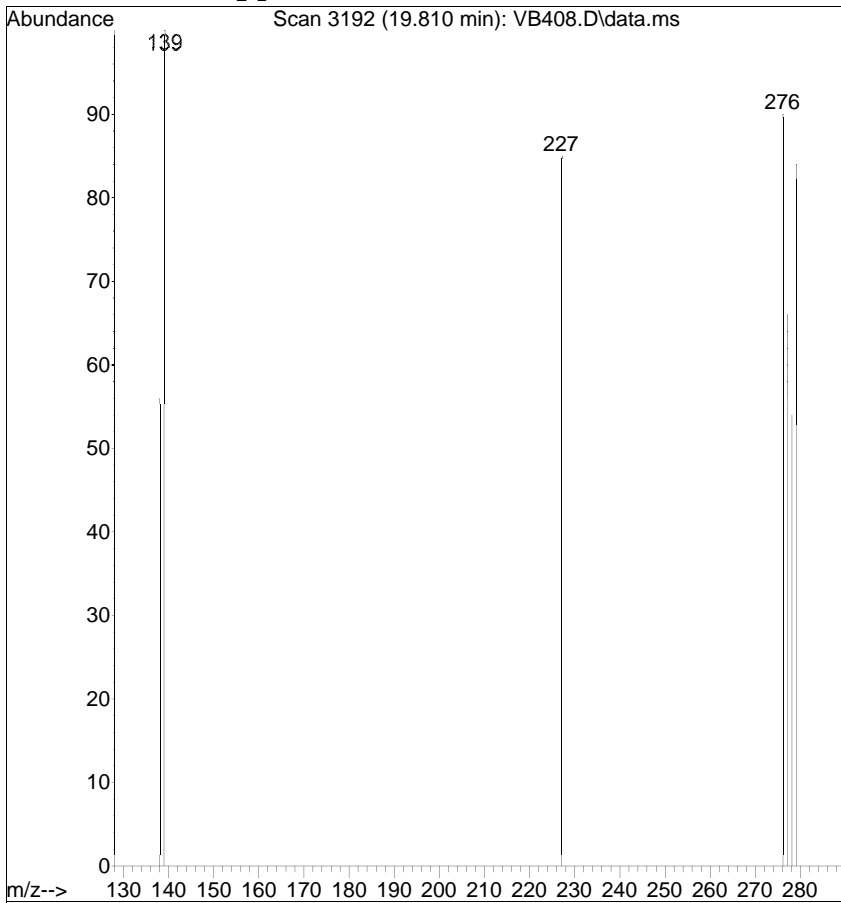


Ref



[Indeno(1,2,3-cd)pyrene; <RL; u]

Raw

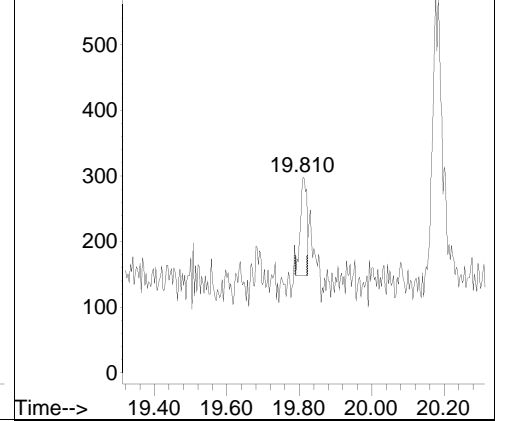


#27

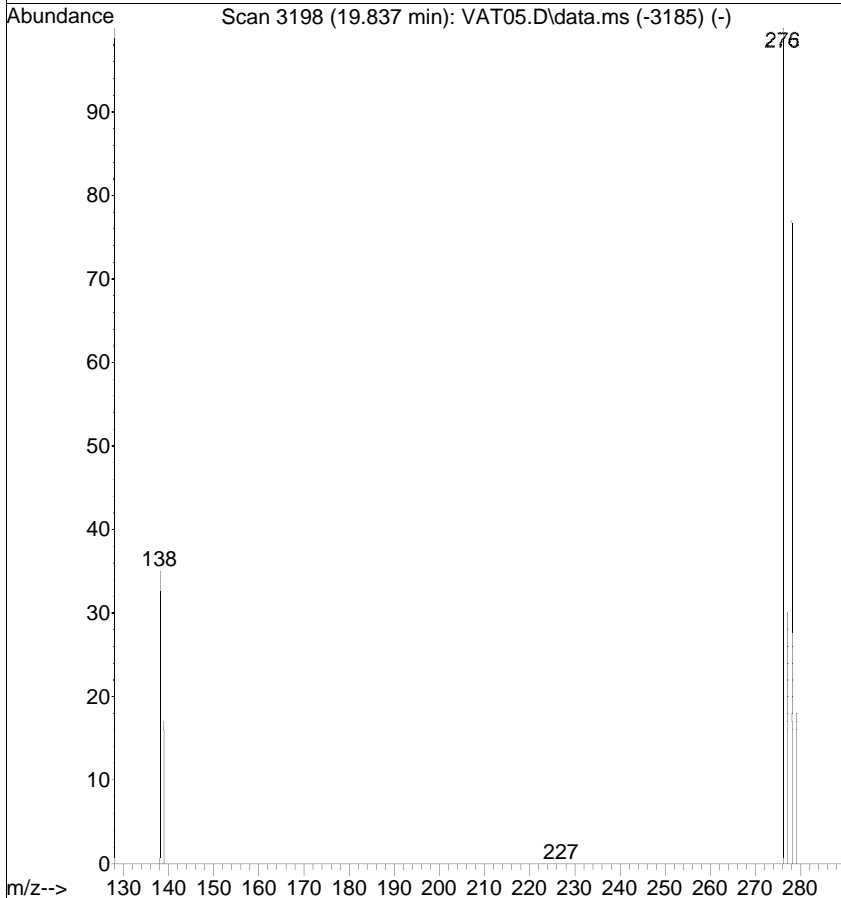
Indeno(1,2,3-cd)pyrene
 Concen: 0.0019 ug/mL
 RT: 19.810 min Scan# 3192
 Delta R.T. -0.027 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	62.8	0.0	23.1#
227	94.3	0.0	21.0#

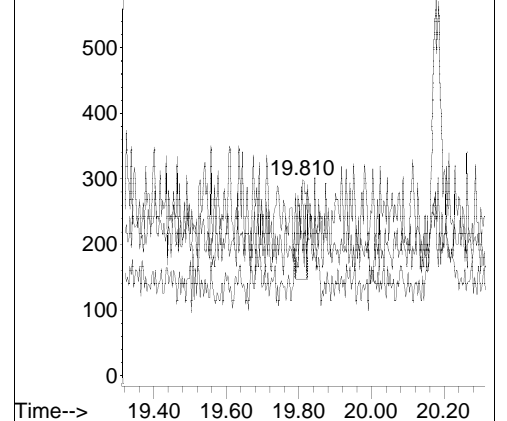
Abundance Ion 276.00 (275.50 to 276.50): VB408.D



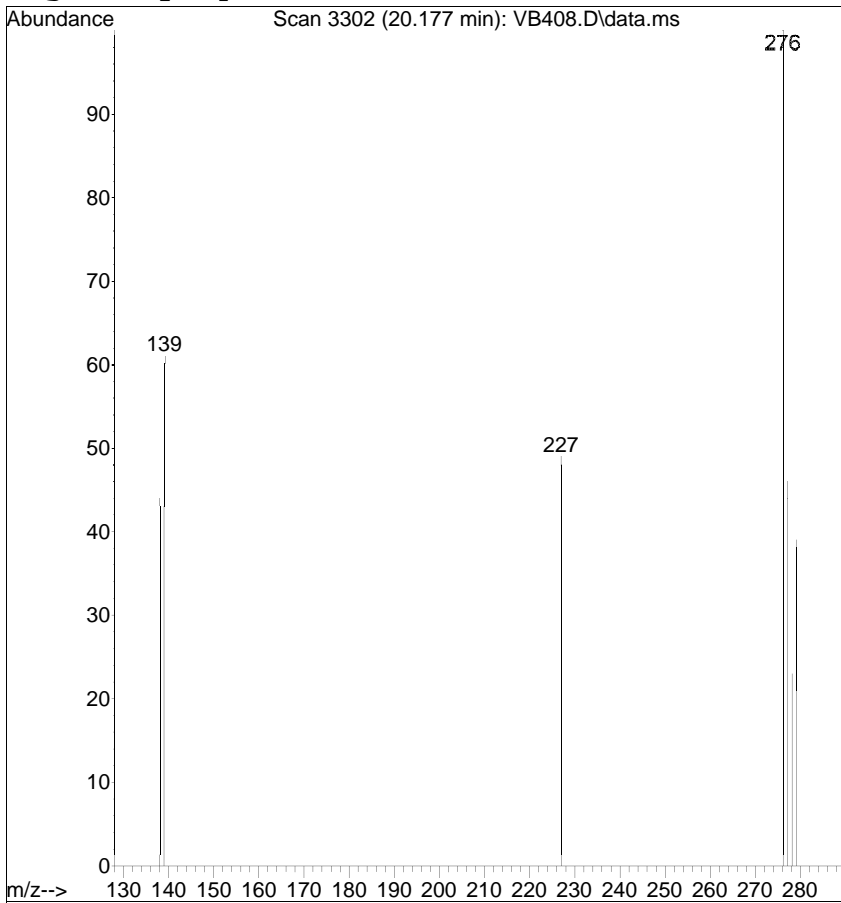
Ref



Abundance

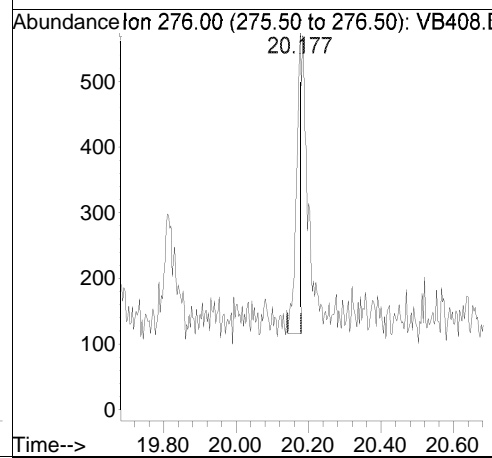


Raw

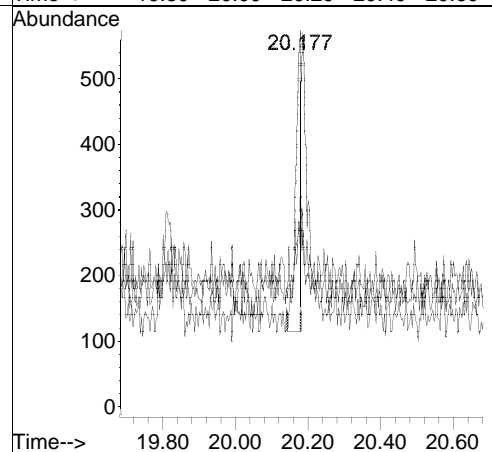
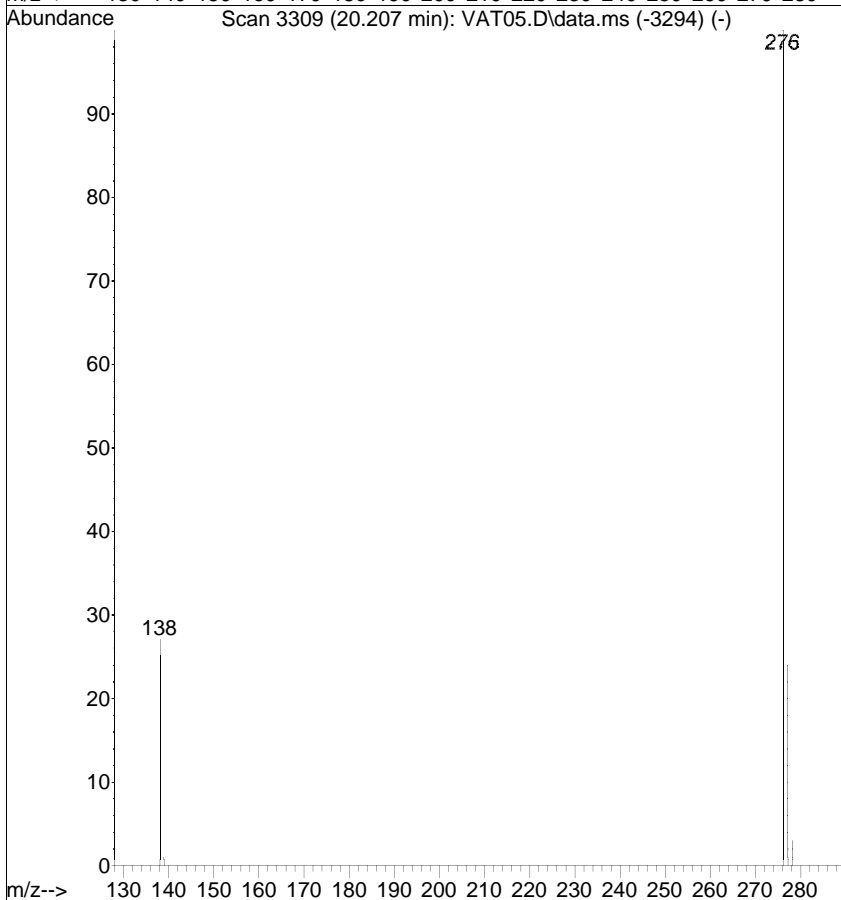


#29
 Benzo(g,h,i)perylene
 Concen: 0.0057 ug/mL
 RT: 20.177 min Scan# 3302
 Delta R.T. -0.030 min
 Lab File: VB408.D
 Acq: 4 Feb 2019 12:58 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	44.0	0.0	22.1#
277	46.4	2.5	42.5#



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 306574-003 Client ID : BR11-1GW03
 Seqnum : 529050994009 Matrix : Water Acct : TRC-SF (MJD)
 File : vb409 Batch : 267157 Time : 04-FEB-2019 13:34
 Cal : 529010667001 Caldate : 07-JAN-2019
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.009100	ND	0.1		u
Acenaphthylene	0.005700	ND	0.1		u
Acenaphthene	0.005900	ND	0.1		u
Fluorene	0.002400	ND	0.1		u
Phenanthrene	0.009700	ND	0.1		u
Anthracene	0.001800	ND	0.1		u
Fluoranthene	0.007400	ND	0.1		u
Pyrene	0.01630	ND	0.1		u
Benzo(a)anthracene	0.004600	ND	0.1		u
Chrysene	0.002600	ND	0.1		u
Benzo(b)fluoranthene	0.001300	ND	0.1		u
Benzo(k)fluoranthene	0.001400	ND	0.1		u
Benzo(a)pyrene	0.002700	ND	0.1		u
Indeno(1,2,3-cd)pyrene	0.005700	ND	0.1		u
Dibenz(a,h)anthracene	0	ND	0.1		u
Benzo(g,h,i)perylene	0.007200	ND	0.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.7537	1.000	0.7537	75	58-134	u
2-Fluorobiphenyl	0.6625	1.000	0.6625	66	53-120	u
Terphenyl-d14	0.3653	1.000	0.3653	37	18-128	u

ISTD (CCV vb406)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	68247	70307	3.02	9.04	9.04	0.00
Acenaphthene-d10	39412	42403	7.59	11.36	11.35	-0.01
Phenanthrene-d10	88300	92742	5.03	13.32	13.32	0.00
Chrysene-d12	74054	77301	4.38	16.80	16.80	0.00
Perylene-d12	71368	78814	10.43	18.54	18.54	0.00

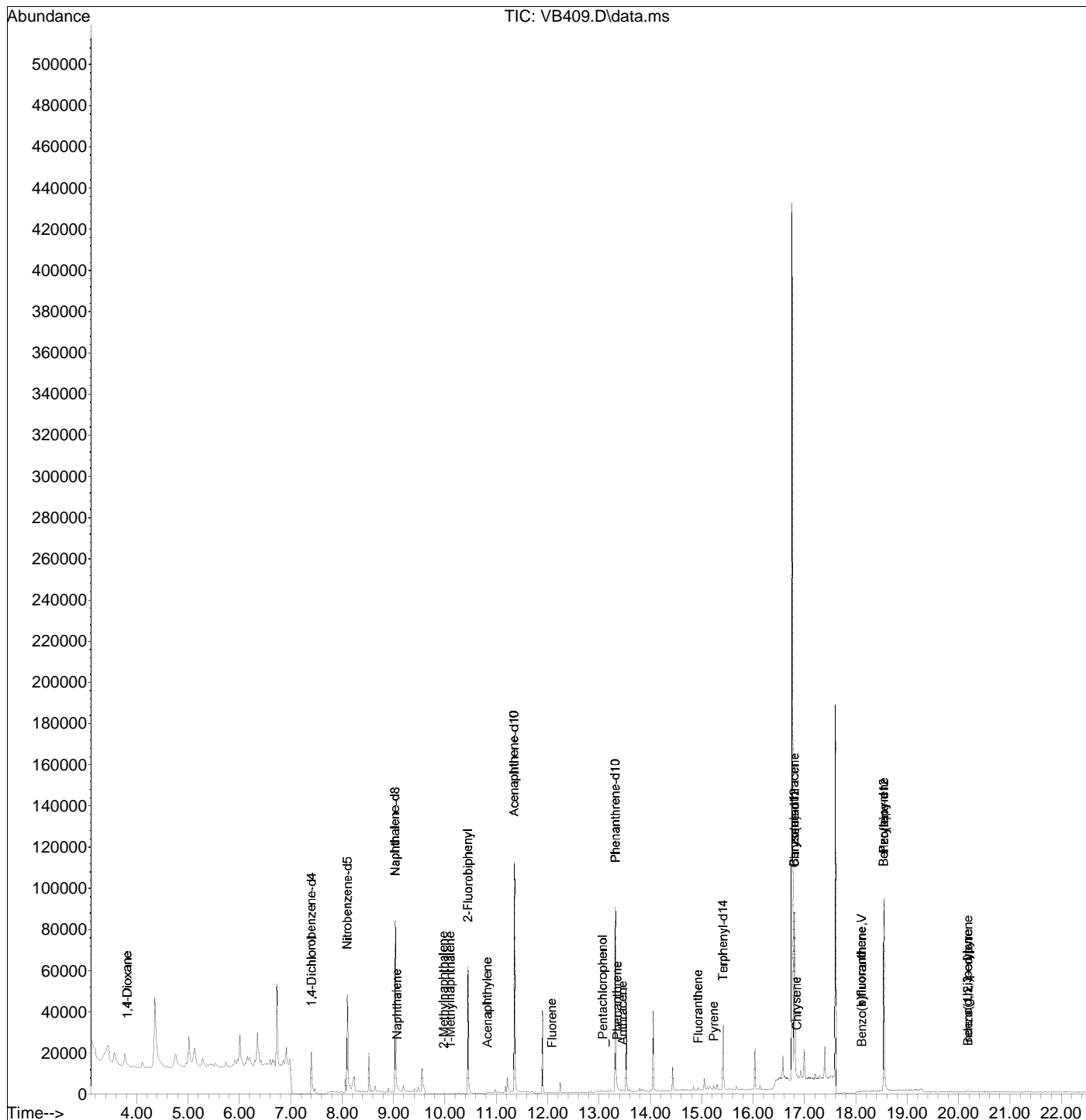
5% spike rule

Analyst: ECI Date: 02/04/19 Reviewer: LW Date: 02/04/19

u=use

Data Path : G:\csinput.net\DATA\020419\
 Data File : VB409.D
 Acq On : 4 Feb 2019 1:34 pm
 Operator :
 Sample : s,306574-003
 Misc : 267157,1,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 13:56:54 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 29 11:12:04 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\020419\
 Data File : VB409.D
 Acq On : 4 Feb 2019 1:34 pm
 Operator :
 Sample : s,306574-003
 Misc : 267157,1,
 ALS Vial : 9 Sample Multiplier: 1

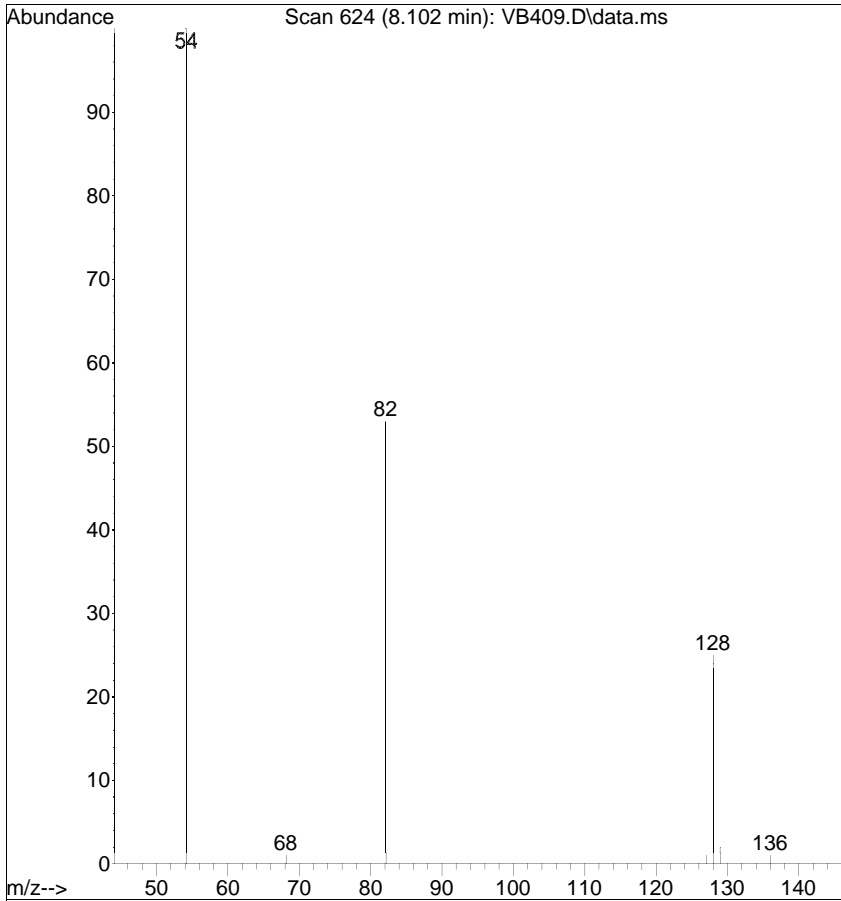
Quant Time: Feb 04 13:56:54 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 29 11:12:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.401	152	18421	1.0000	ug/mL	-0.02
3) Naphthalene-d8	9.035	136	70307	1.0000	ug/mL	-0.03
8) Acenaphthene-d10	11.351	164	42403	1.0000	ug/mL	-0.03
13) Phenanthrene-d10	13.318	188	92742	1.0000	ug/mL	-0.02
18) Chrysene-d12	16.801	240	77301	1.0000	ug/mL	-0.02
23) Perylene-d12	18.542	264	78814	1.0000	ug/mL	-0.02

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.815	88	215	0.0324	ug/mL	# 1
4) Nitrobenzene-d5	8.102	82	17805	0.7537	ug/mL	# 1
5) Naphthalene	9.066	128	616	0.0091	ug/mL	72
6) 2-Methylnaphthalene	9.974	142	190	0.0036	ug/mL	79
7) 1-Methylnaphthalene	10.101	142	166	0.0036	ug/mL	# 62
9) 2-Fluorobiphenyl	10.451	172	50709	0.6625	ug/mL	100
10) Acenaphthylene	10.825	152	425	0.0057	ug/mL	# 1
11) Acenaphthene	11.351	154	280	0.0059	ug/mL	# 40
12) Fluorene	12.078	166	143	0.0024	ug/mL	# 65
14) _Pentachlorophenol	13.069	266	205	0.4231	ug/mL	# 69
15) Phenanthrene	13.347	178	870	0.0097	ug/mL	71
16) Anthracene	13.454	178	149	0.0018	ug/mL	# 1
17) Fluoranthene	14.925	202	799	0.0074	ug/mL	# 54
19) Pyrene	15.226	202	1657	0.0163	ug/mL	90
20) Terphenyl-d14	15.412	244	31555	0.3653	ug/mL	97
21) Benzo(a)anthracene	16.796	228	430	0.0046	ug/mL	# 66
22) Chrysene	16.841	228	230	0.0026	ug/mL	# 48
24) Benzo(b)fluoranthene	18.106	252	138	0.0013	ug/mL	# 1
25) Benzo(k)fluoranthene	18.106	252	138	0.0014	ug/mL	# 1
26) Benzo(a)pyrene	18.539	252	234	0.0027	ug/mL	# 1
27) Indeno(1,2,3-cd)pyrene	20.174	276	543	0.0057	ug/mL	# 1
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
29) Benzo(g,h,i)perylene	20.174	276	543	0.0072	ug/mL	# 56

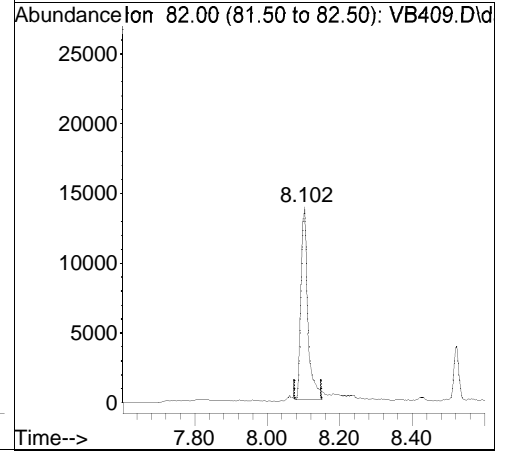
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

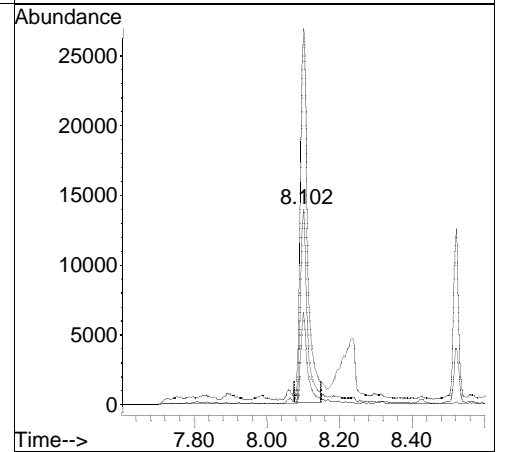
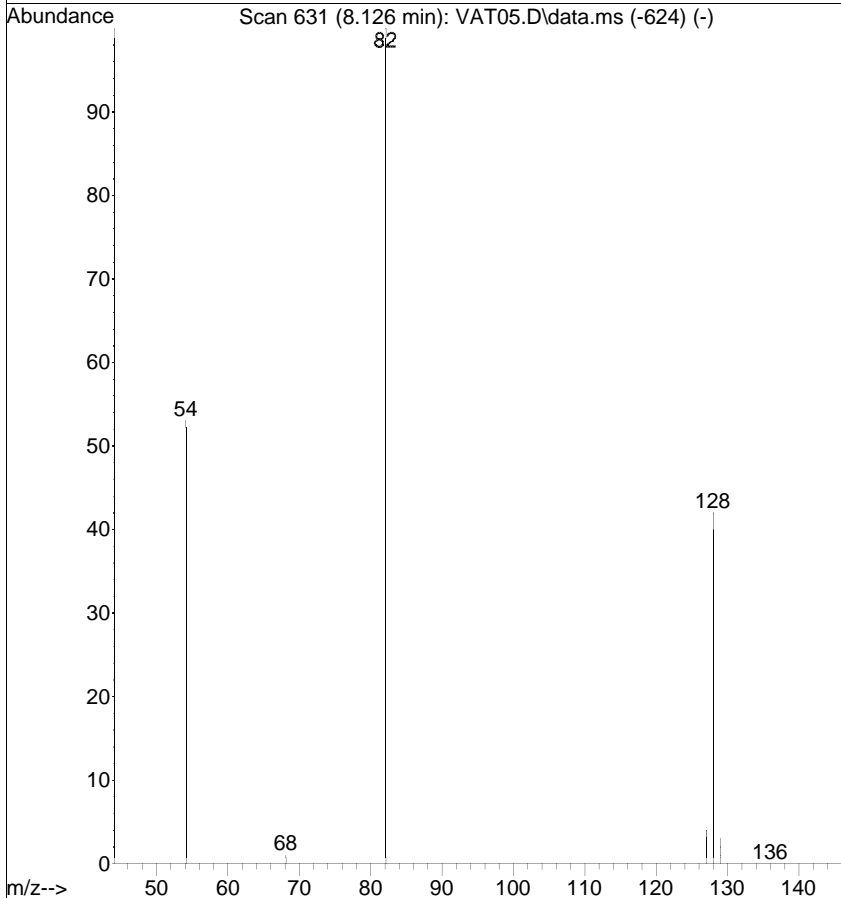


#4
 Nitrobenzene-d5
 Concen: 0.7537 ug/mL
 RT: 8.102 min Scan# 624
 Delta R.T. -0.024 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

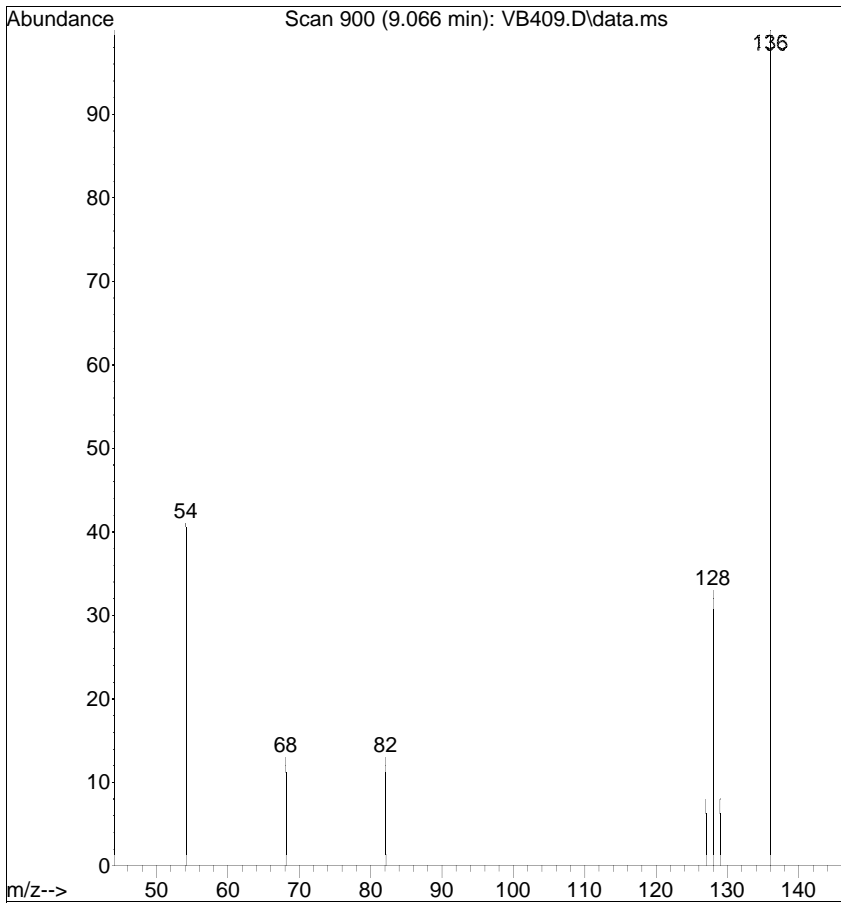
Tgt Ion	Resp	Lower	Upper
82	17805		
82	100		
128	47.2	10.5	50.5
54	189.3	56.2	96.2#



Ref

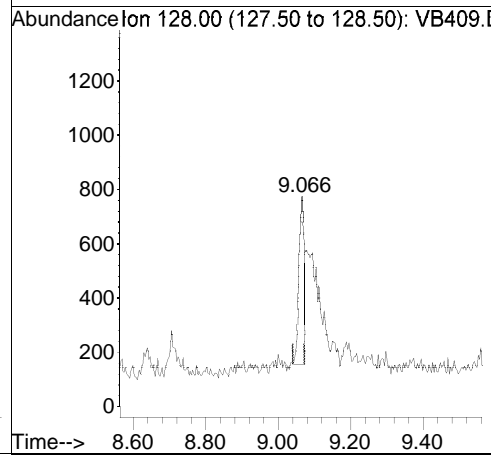


Raw

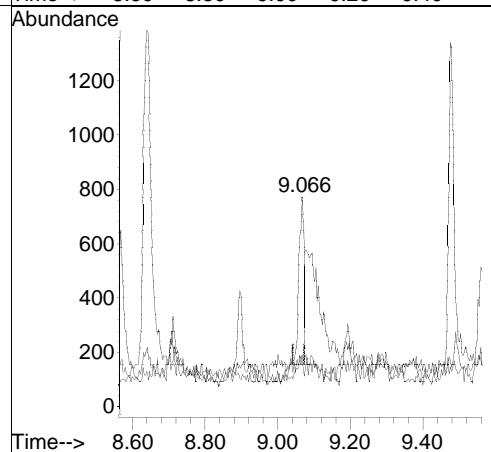
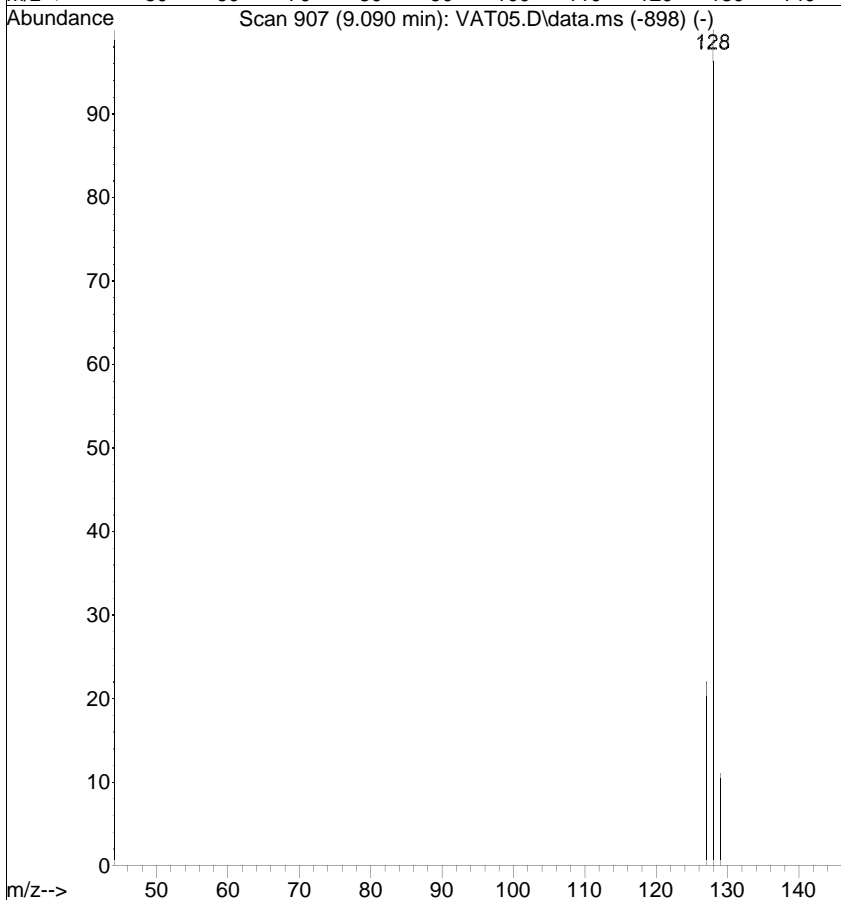


#5
 Naphthalene
 Concen: 0.0091 ug/mL
 RT: 9.066 min Scan# 900
 Delta R.T. -0.024 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

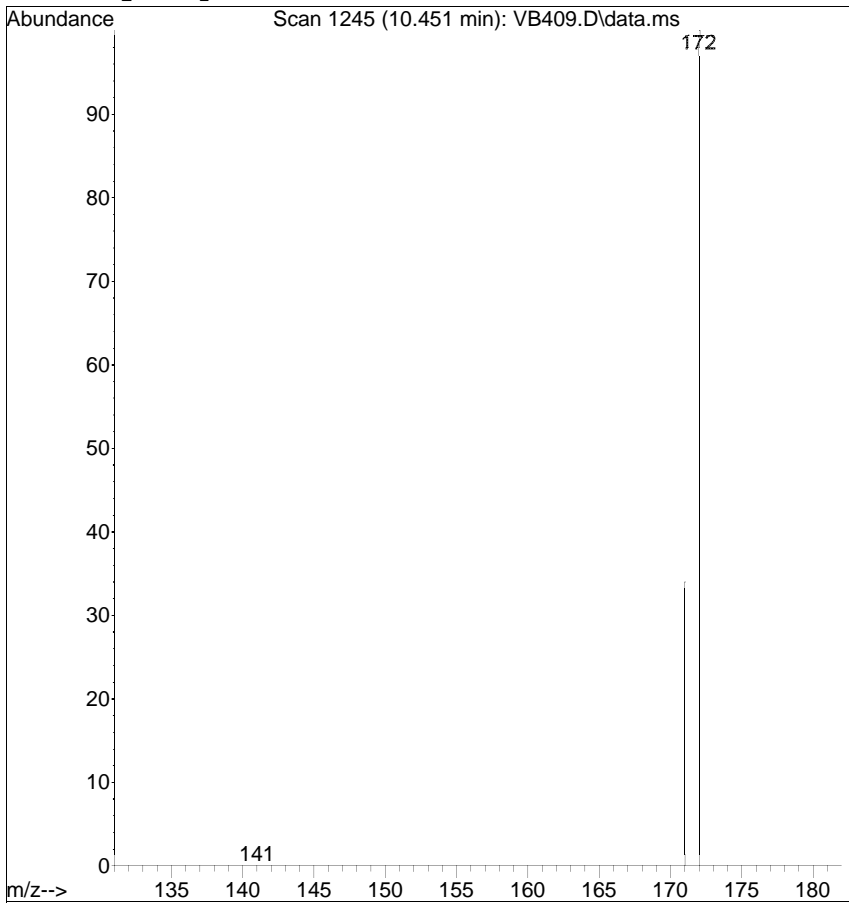
Tgt Ion	Resp	Lower	Upper
128	100		
129	22.6	0.0	31.1
127	24.7	0.0	34.0



Ref

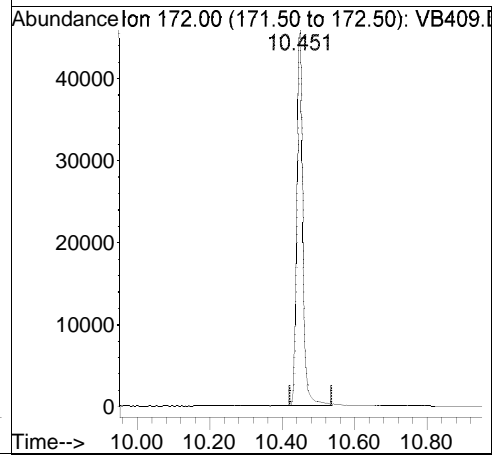


Raw

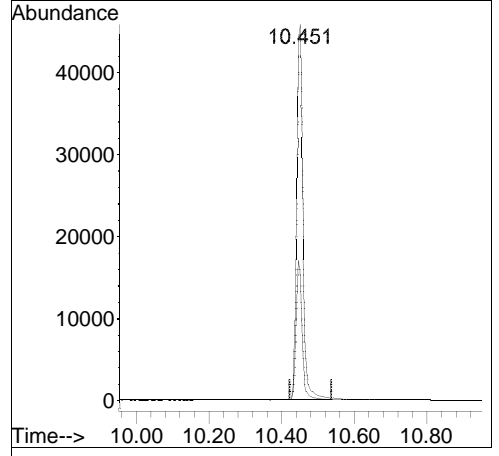
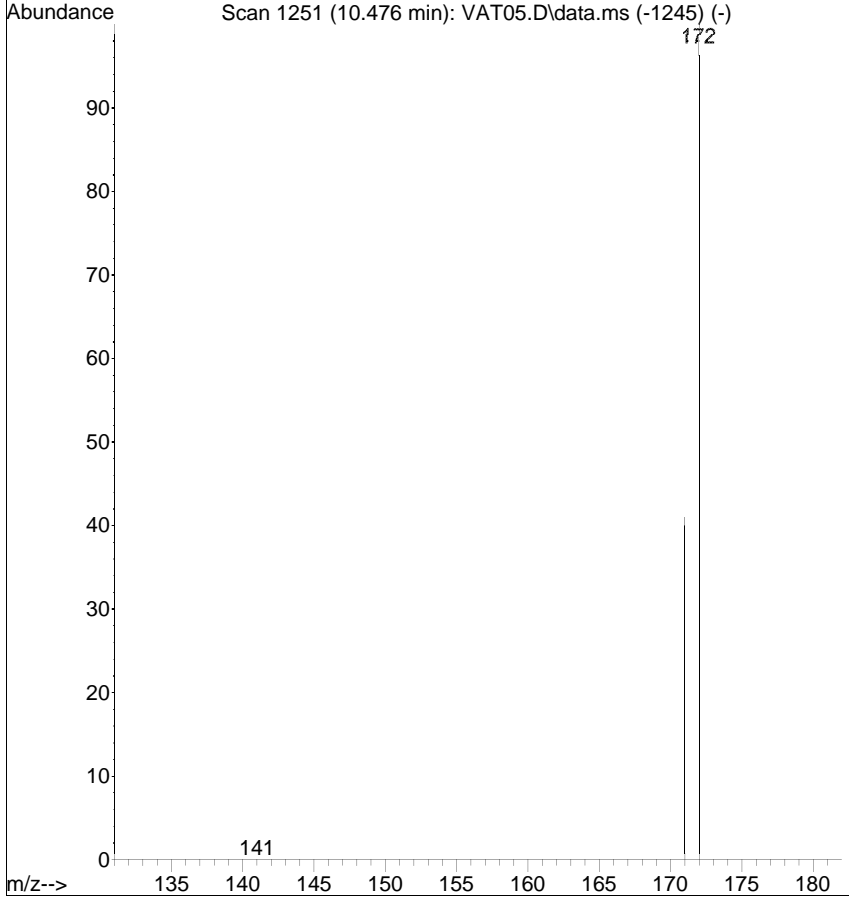


#9
 2-Fluorobiphenyl
 Concen: 0.6625 ug/mL
 RT: 10.451 min Scan# 1245
 Delta R.T. -0.026 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

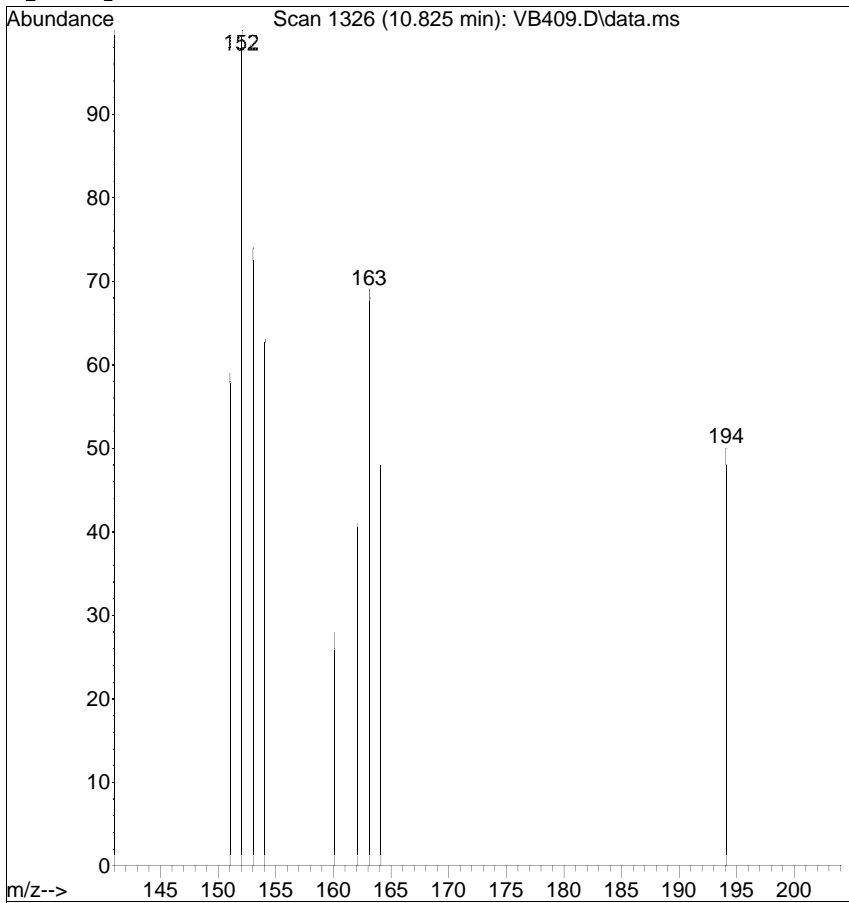
Tgt Ion	Resp	Lower	Upper
172	50709		
171	34.5	14.4	54.4



Ref

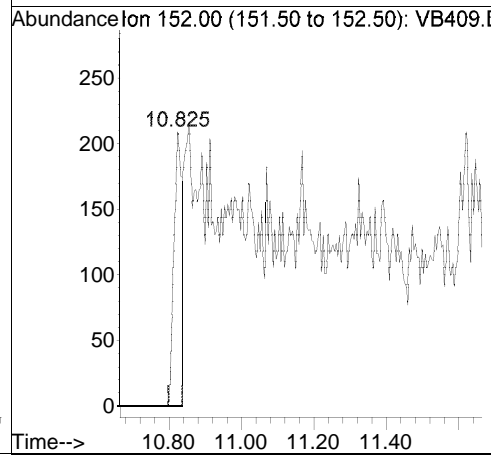


Raw

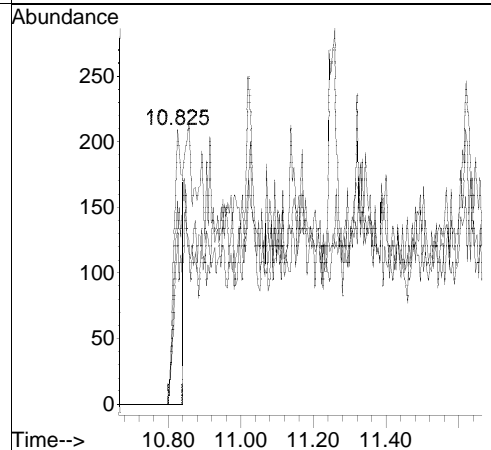
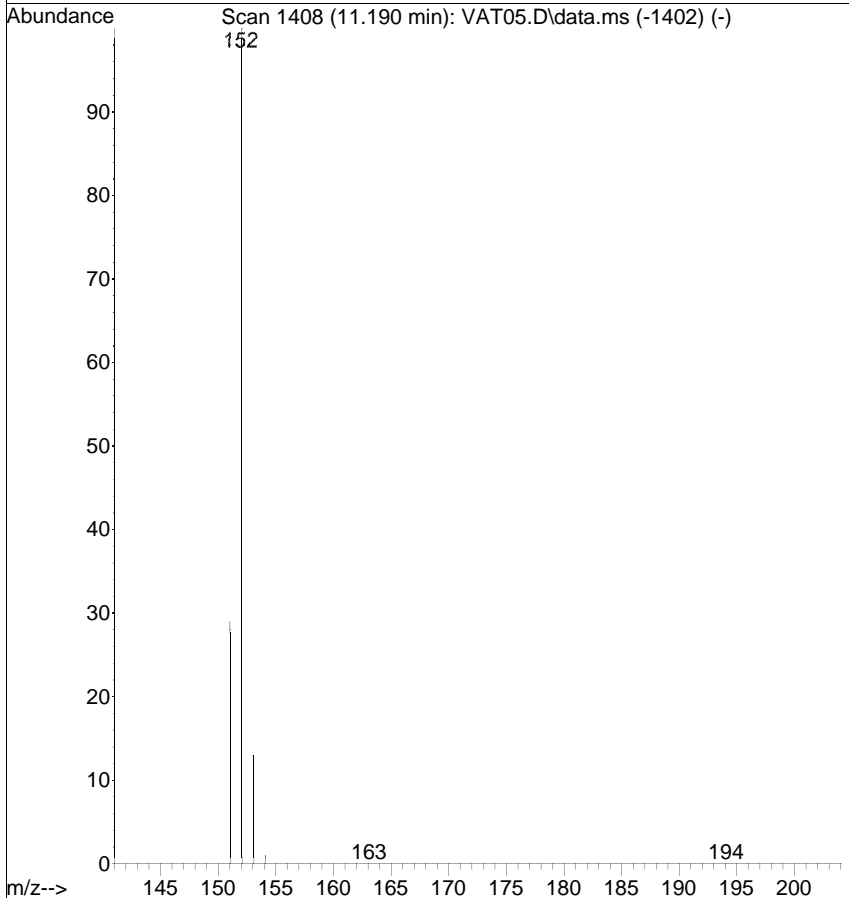


#10
 Acenaphthylene
 Concen: 0.0057 ug/mL
 RT: 10.825 min Scan# 1326
 Delta R.T. -0.365 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

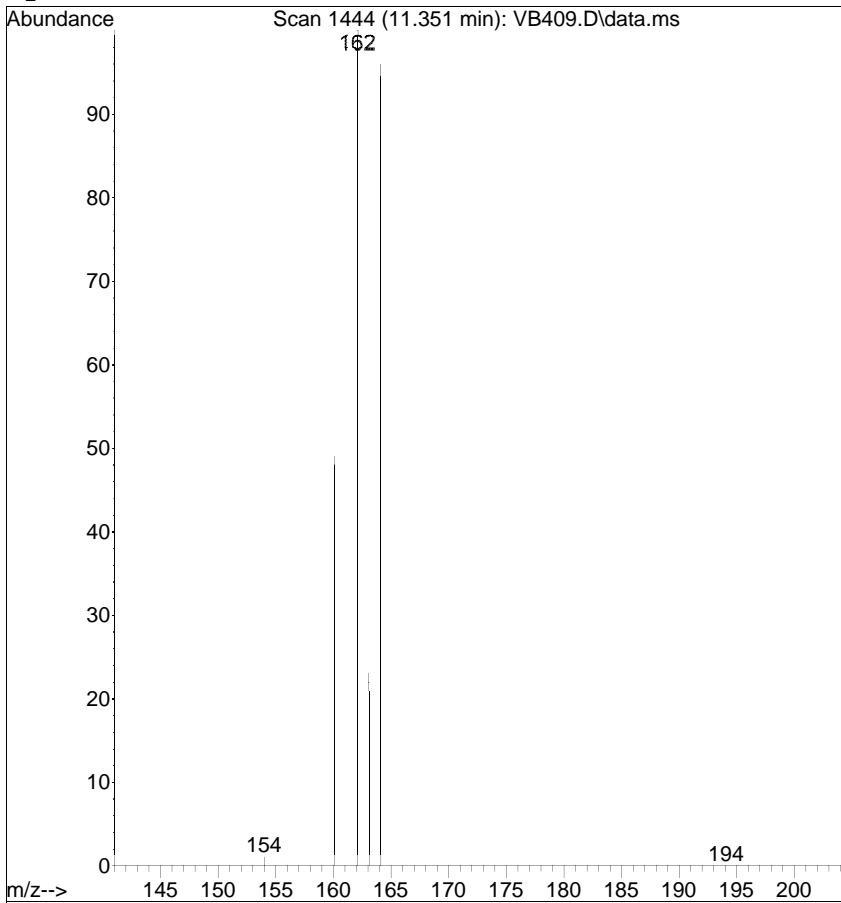
Tgt Ion	Ratio	Lower	Upper
152	100		
151	59.3	1.0	41.0#
153	74.2	0.0	33.1#



Ref

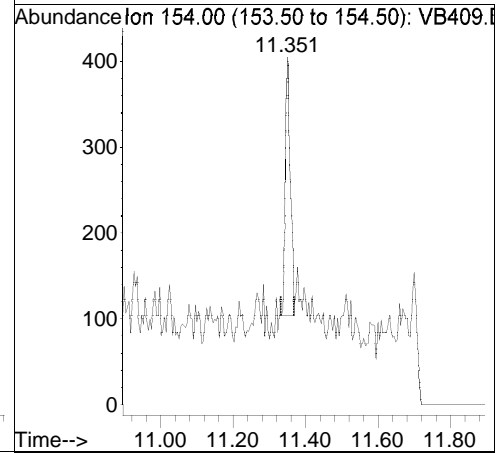


Raw

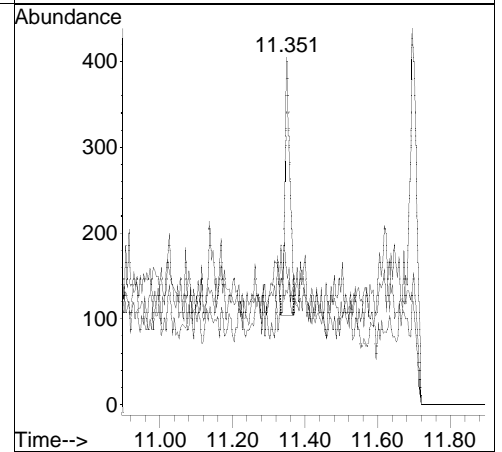
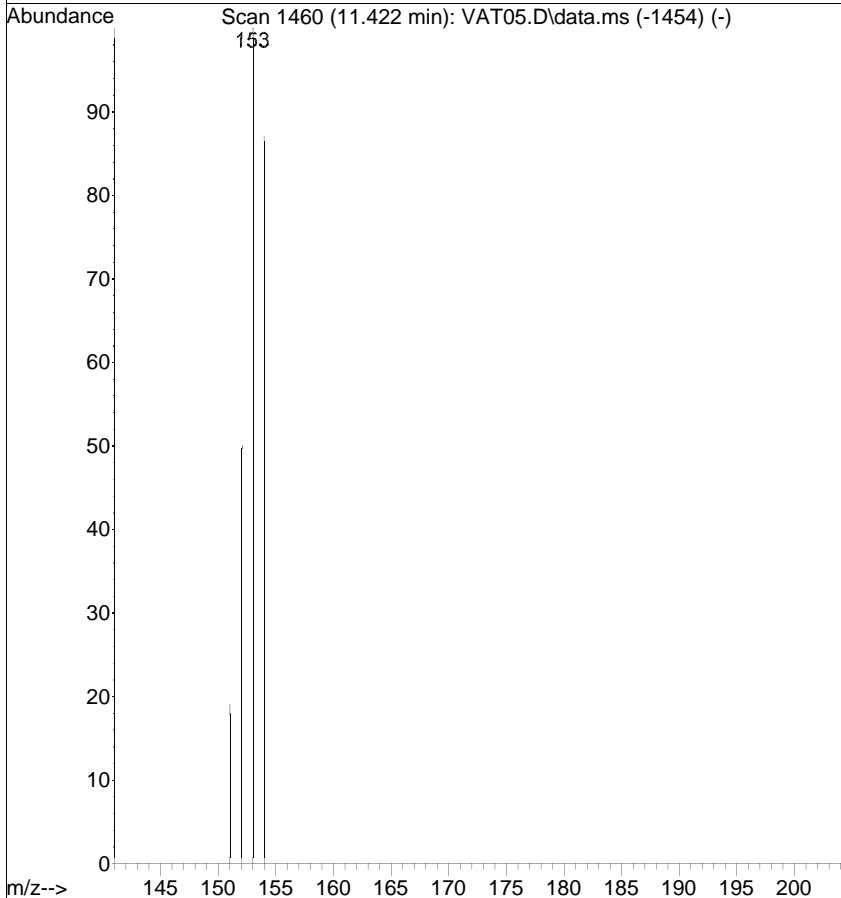


#11
 Acenaphthene
 Concen: 0.0059 ug/mL
 RT: 11.351 min Scan# 1444
 Delta R.T. -0.071 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

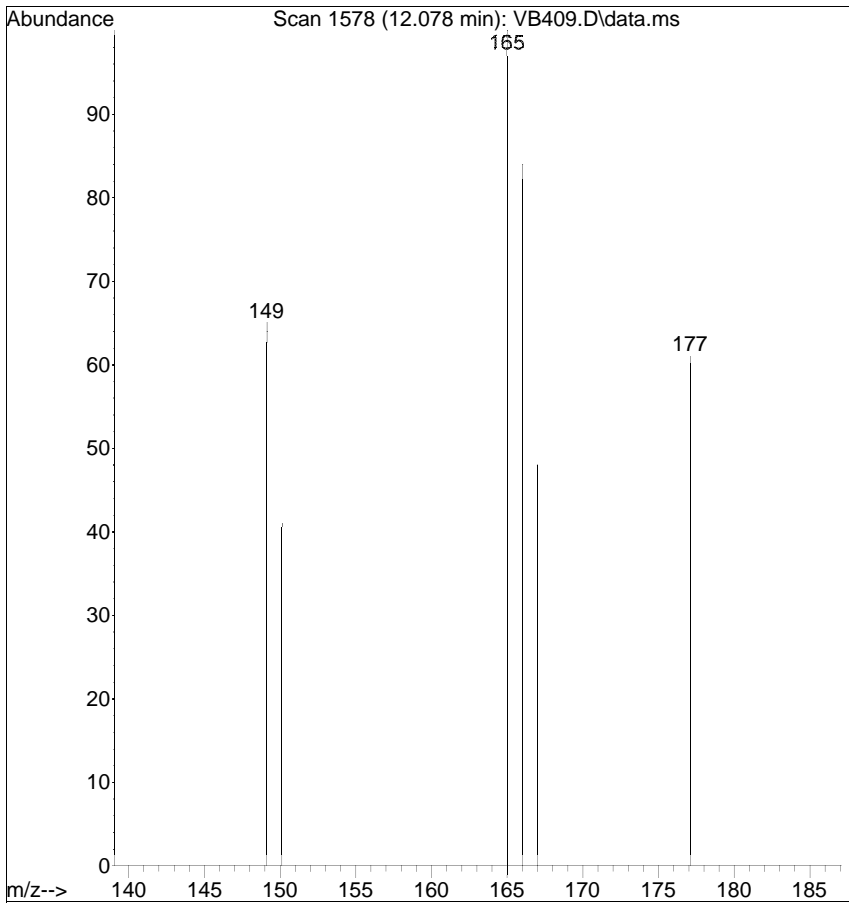
Tgt Ion	Ratio	Lower	Upper
154	100		
152	32.1	35.4	75.4#
153	36.3	96.8	136.8#



Ref

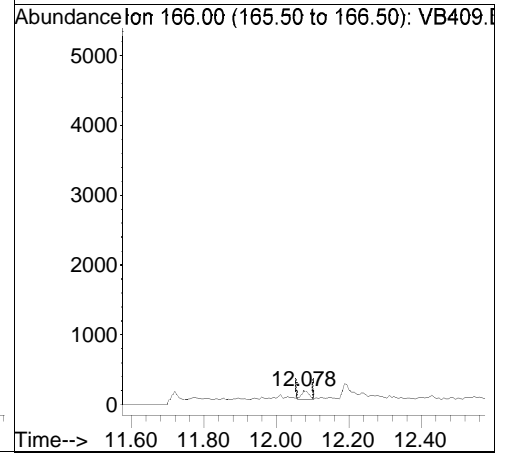


Raw

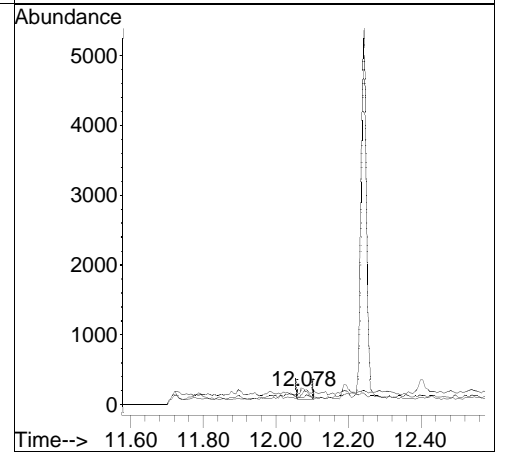
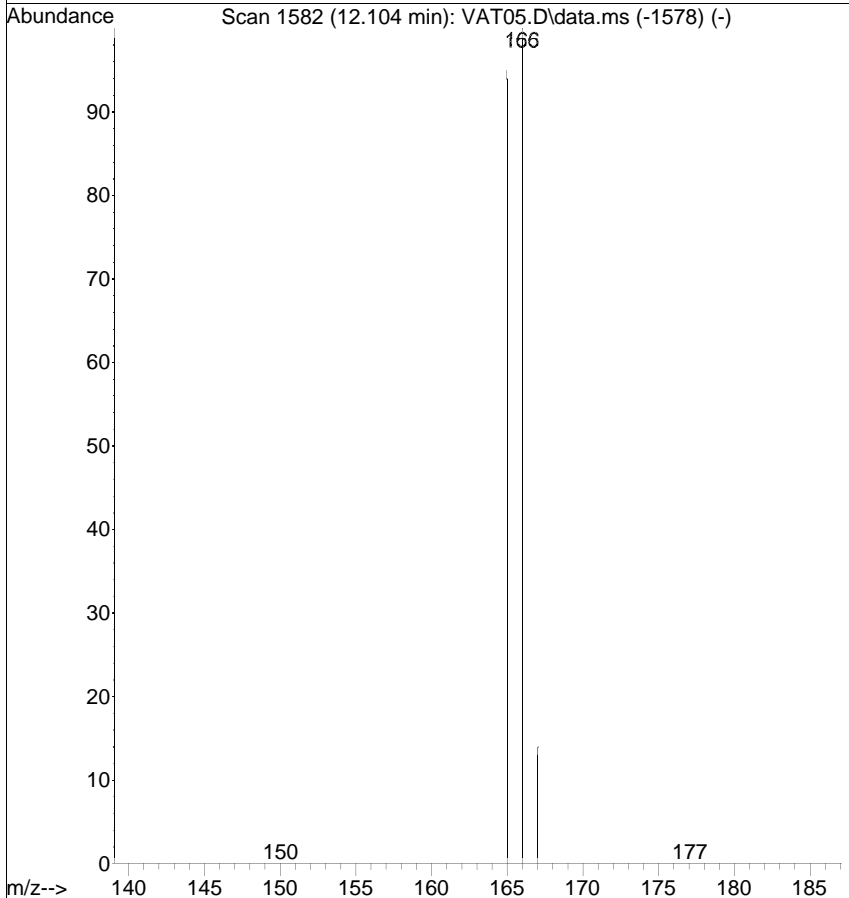


#12
 Fluorene
 Concen: 0.0024 ug/mL
 RT: 12.078 min Scan# 1578
 Delta R.T. -0.026 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

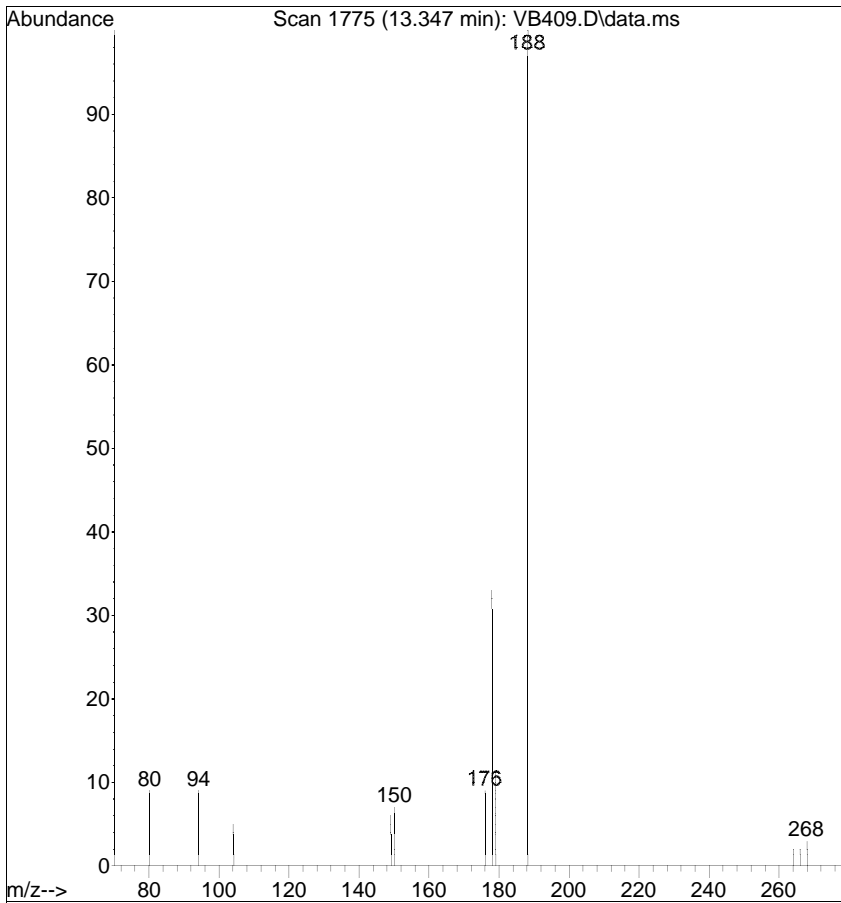
Tgt Ion	Resp	Lower	Upper
166	100		
165	118.4	74.9	114.9#
167	56.6	0.0	33.9#



Ref

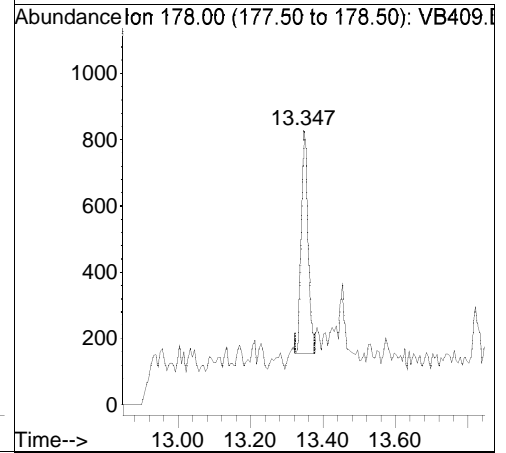


Raw

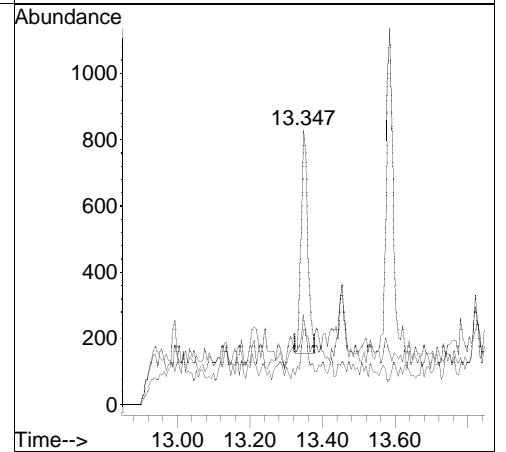
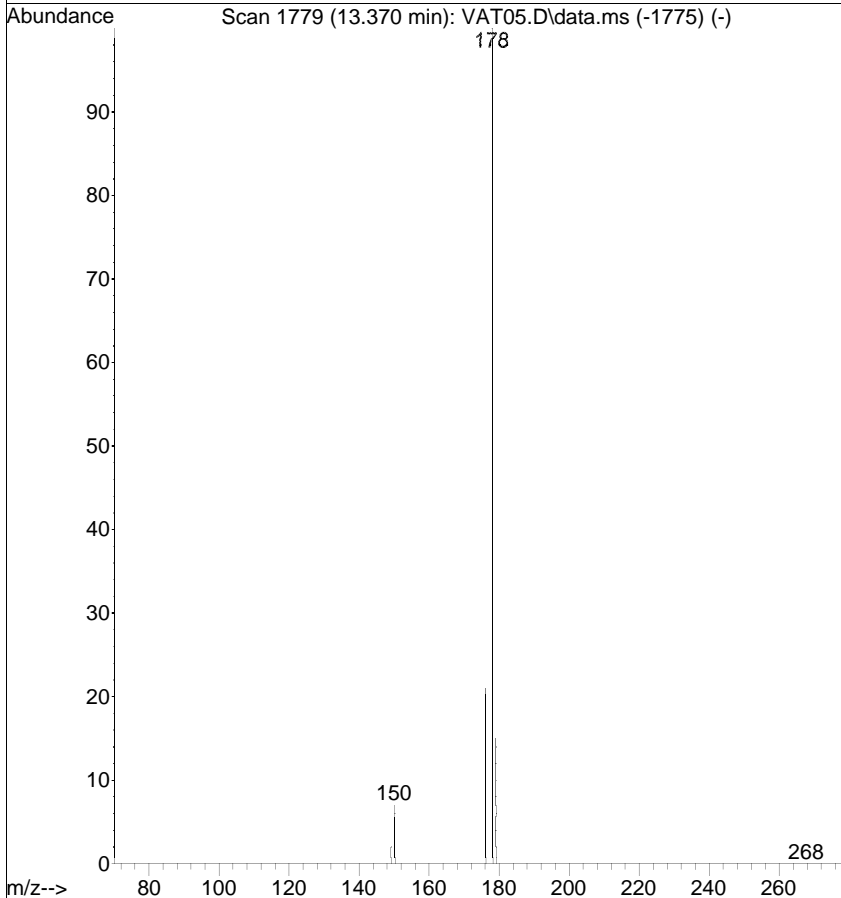


#15
 Phenanthrene
 Concen: 0.0097 ug/mL
 RT: 13.347 min Scan# 1775
 Delta R.T. -0.023 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

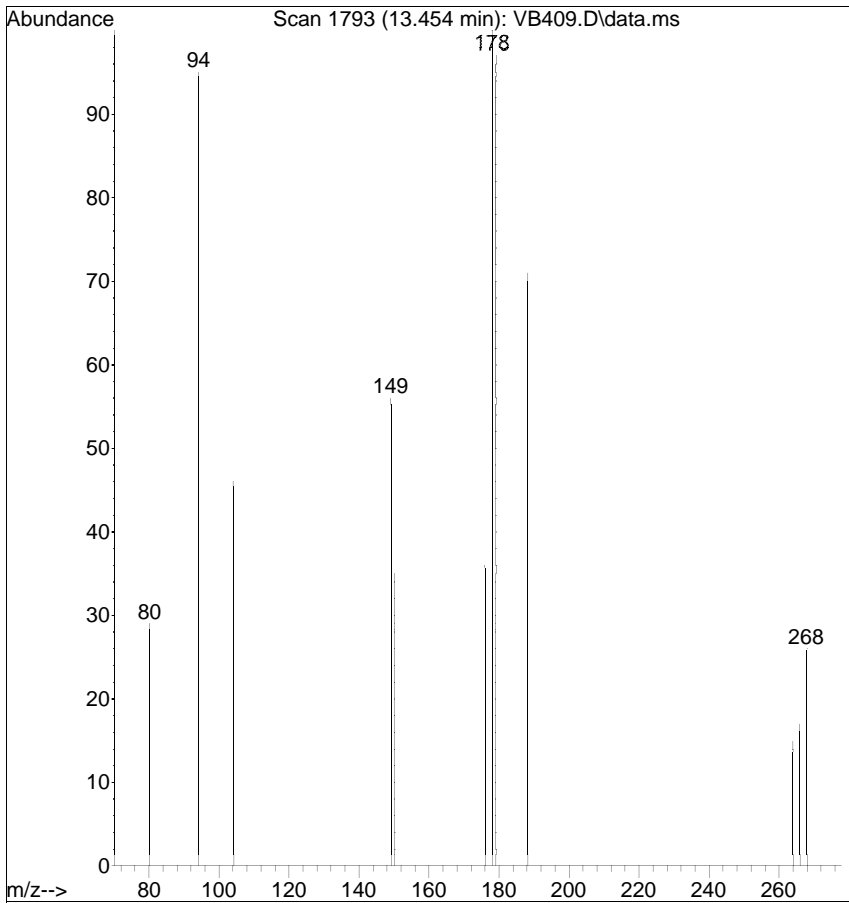
Tgt Ion	Resp	Lower	Upper
178	870		
178	100		
179	32.9	0.0	35.0
176	27.1	0.0	38.9



Ref

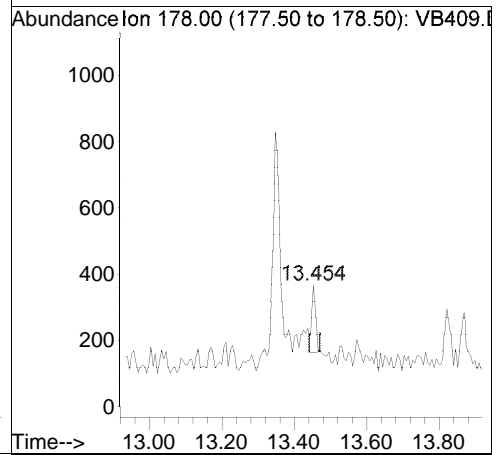


Raw

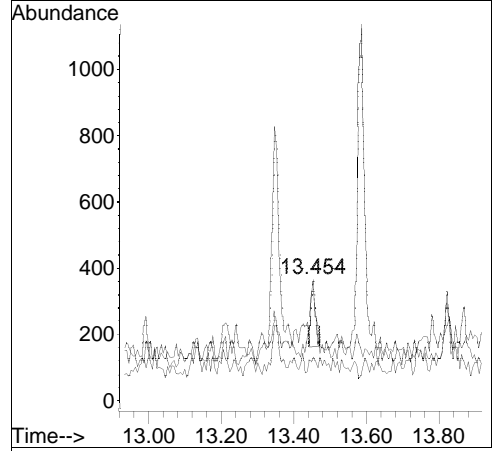
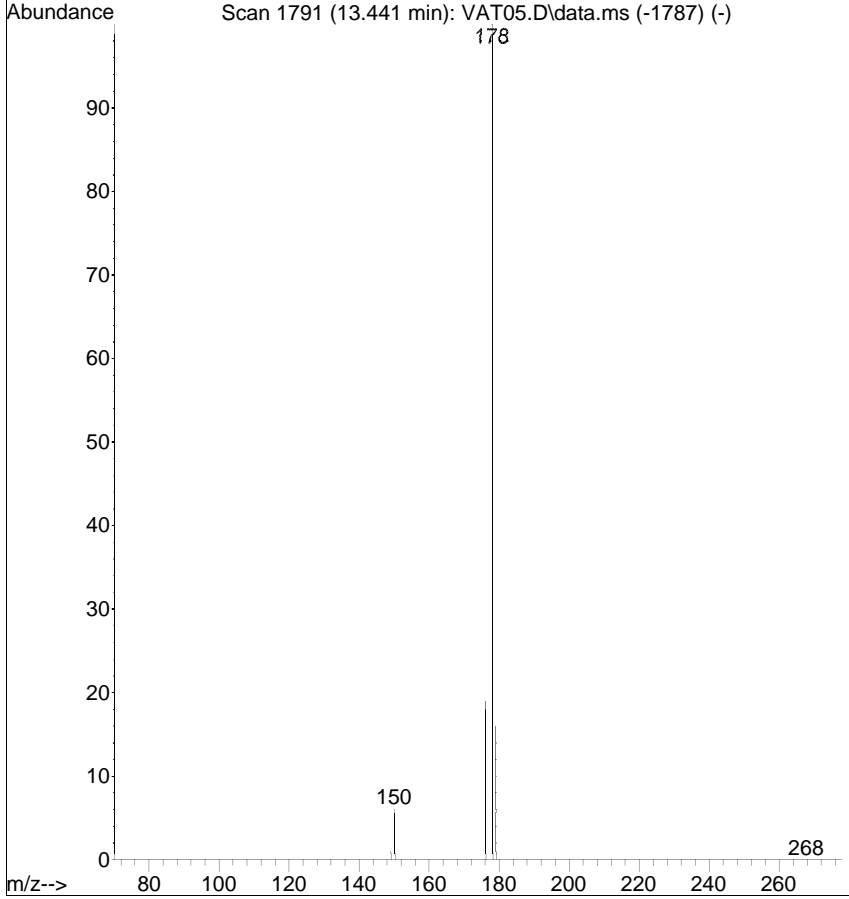


#16
 Anthracene
 Concen: 0.0018 ug/mL
 RT: 13.454 min Scan# 1793
 Delta R.T. 0.013 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

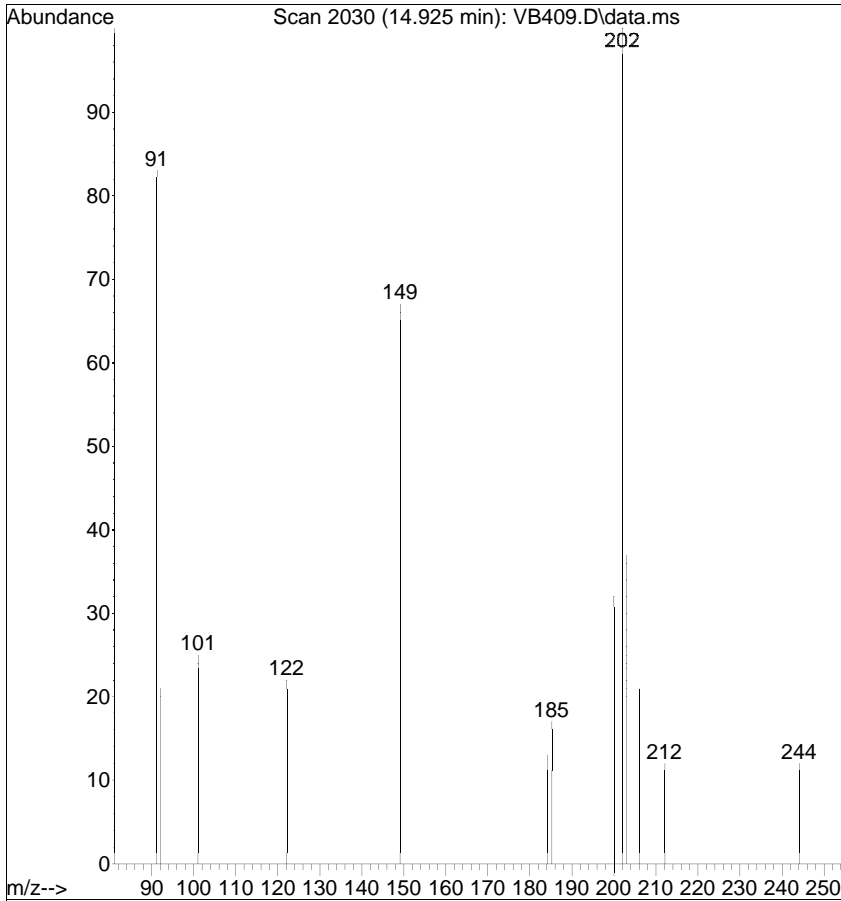
Tgt Ion	Ratio	Lower	Upper
178	100		
179	97.3	0.0	34.4#
176	36.2	0.0	39.5



Ref

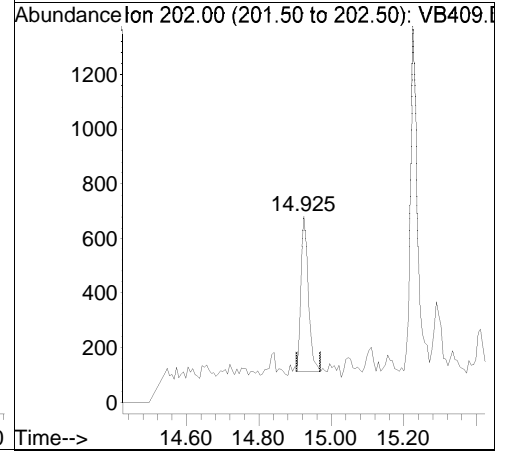


Raw

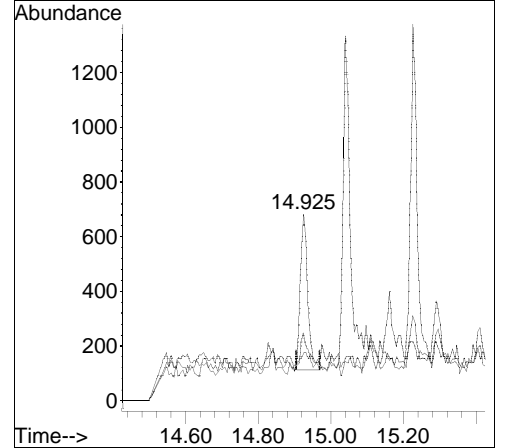
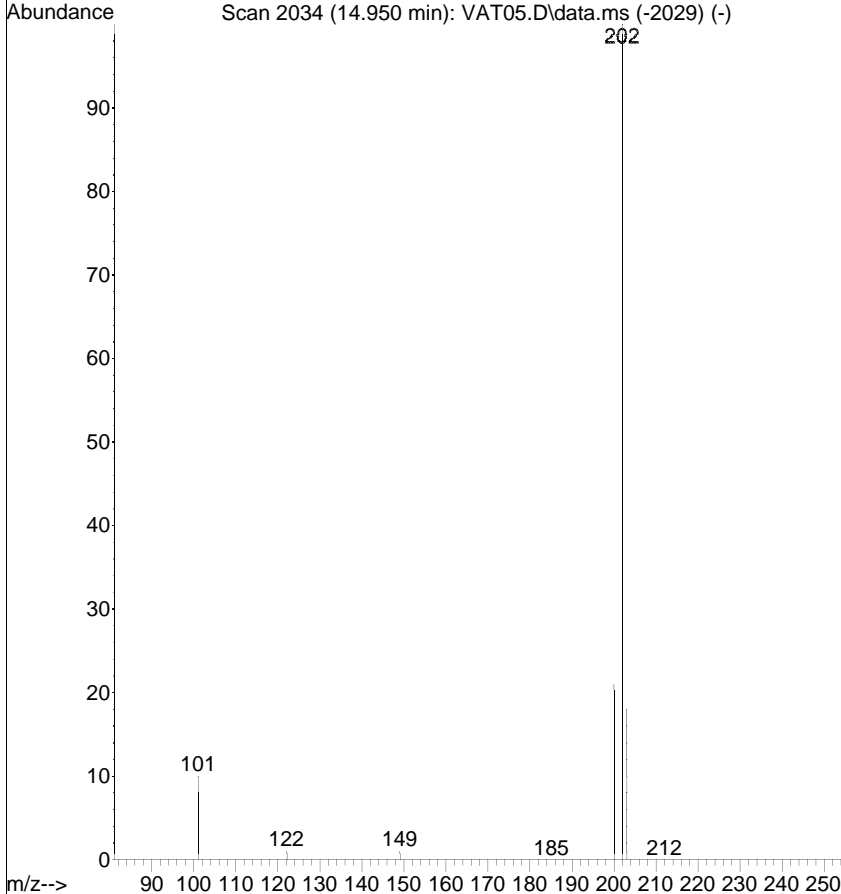


#17
 Fluoranthene
 Concen: 0.0074 ug/mL
 RT: 14.925 min Scan# 2030
 Delta R.T. -0.026 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

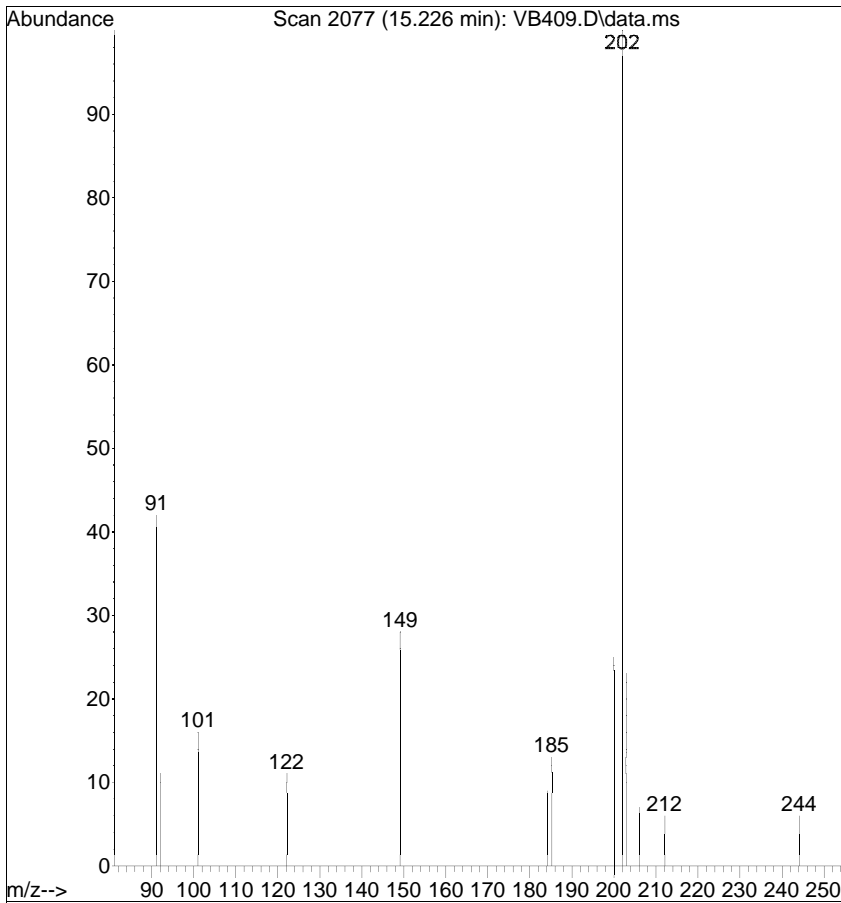
Tgt Ion	Ratio	Lower	Upper
202	100		
101	25.5	0.0	21.1#
203	36.7	0.0	37.0



Ref

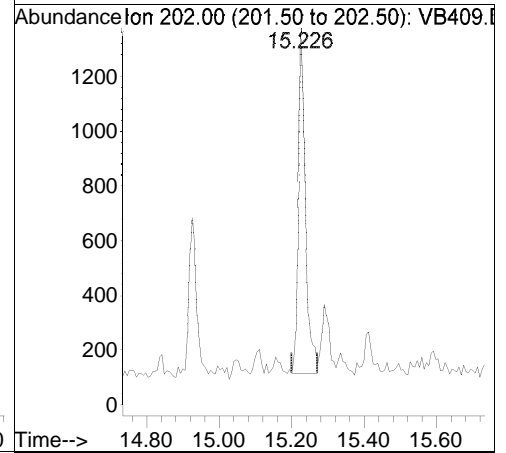


Raw

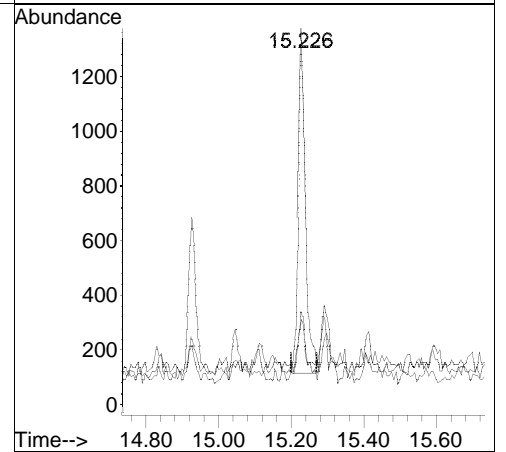
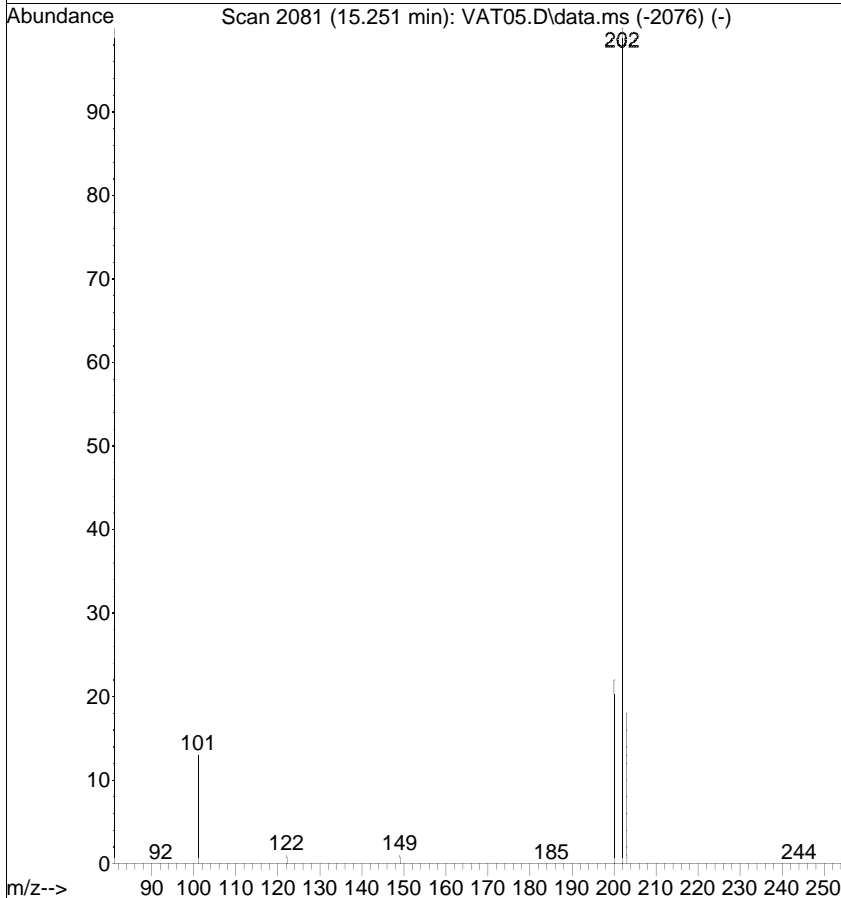


#19
 Pyrene
 Concen: 0.0163 ug/mL
 RT: 15.226 min Scan# 2077
 Delta R.T. -0.026 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

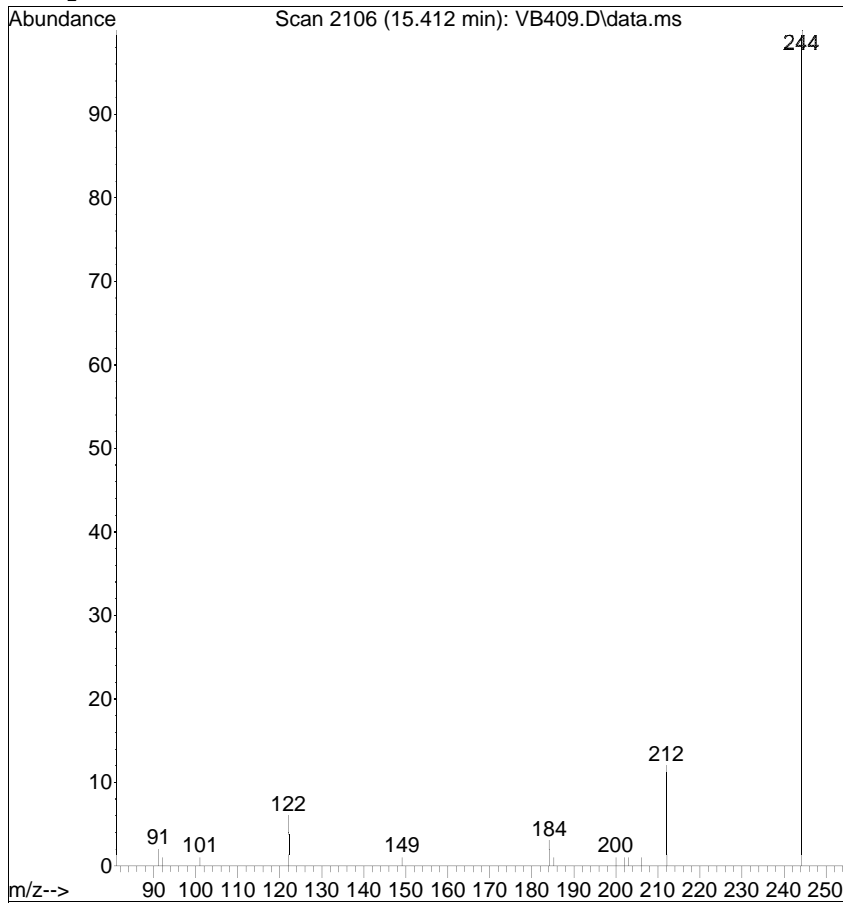
Tgt Ion	Resp	Lower	Upper
202	1657		
200	24.9	1.1	41.1
203	22.6	0.0	37.7



Ref

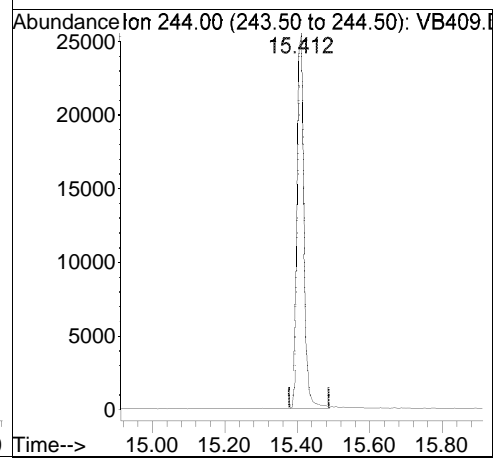


Raw

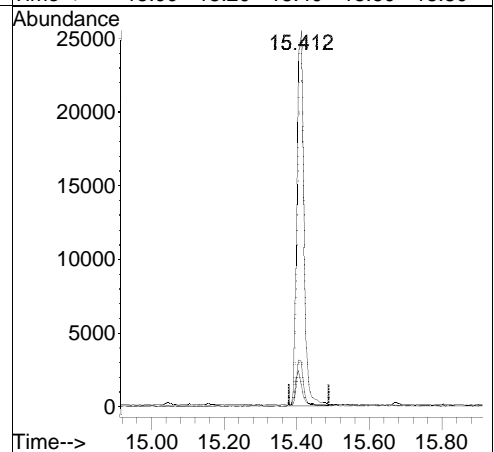
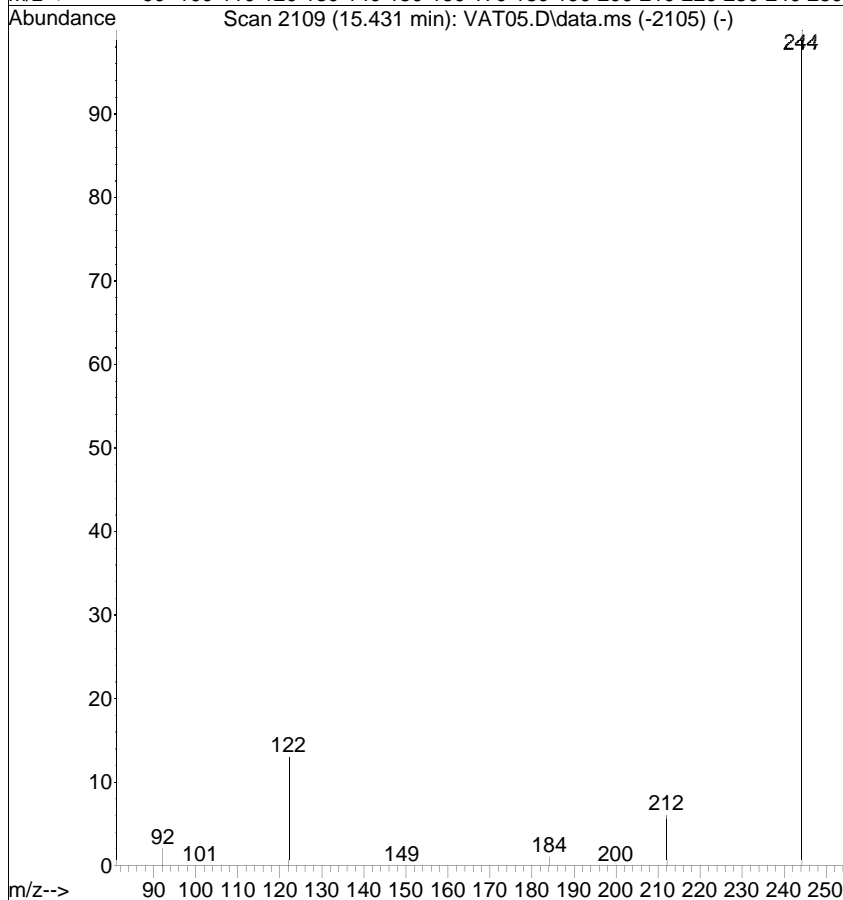


#20
 Terphenyl-d14
 Concen: 0.3653 ug/mL
 RT: 15.412 min Scan# 2106
 Delta R.T. -0.019 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

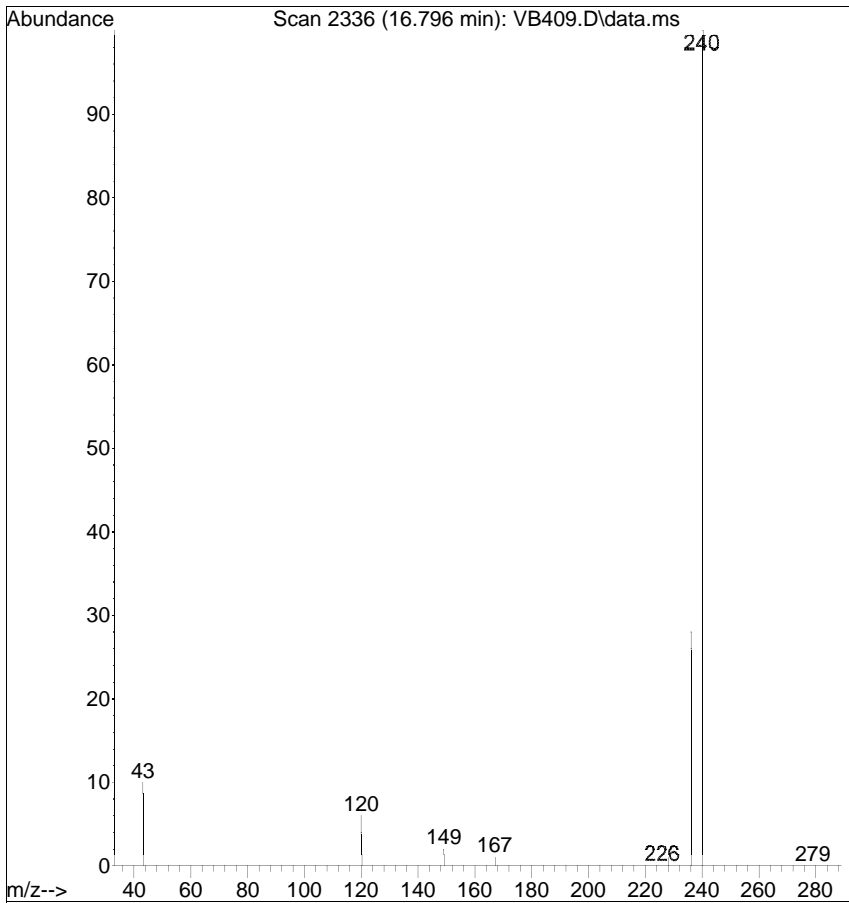
Tgt Ion	Ratio	Lower	Upper
244	100		
122	6.2	0.0	25.0
212	12.4	0.0	31.4



Ref

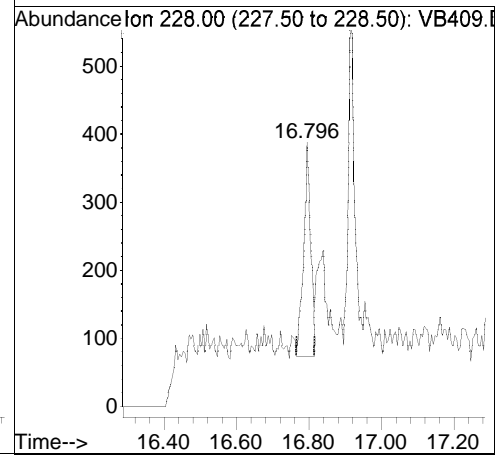


Raw

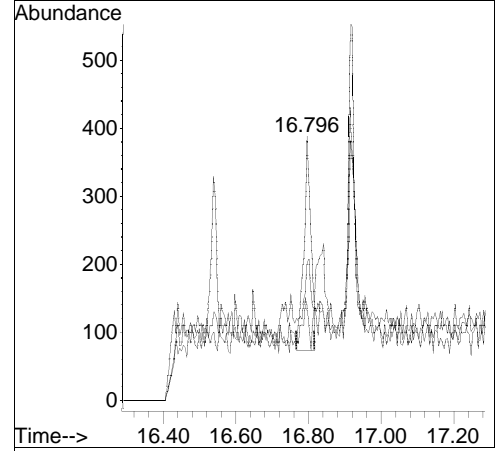
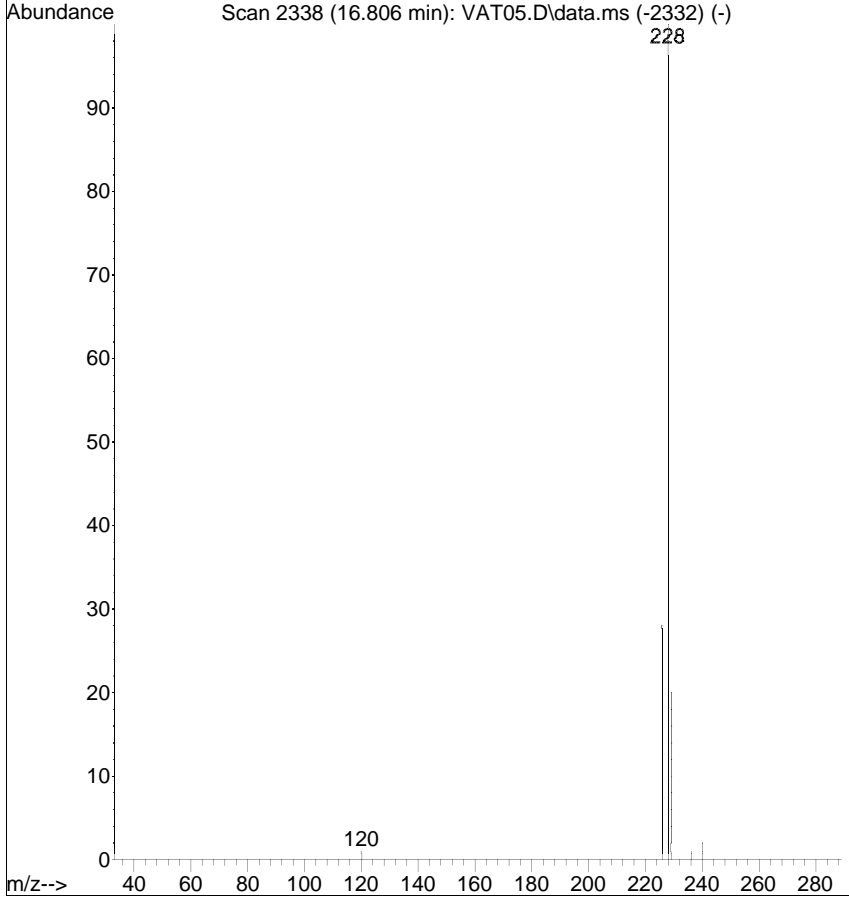


#21
 Benzo(a)anthracene
 Concen: 0.0046 ug/mL
 RT: 16.796 min Scan# 2336
 Delta R.T. -0.010 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

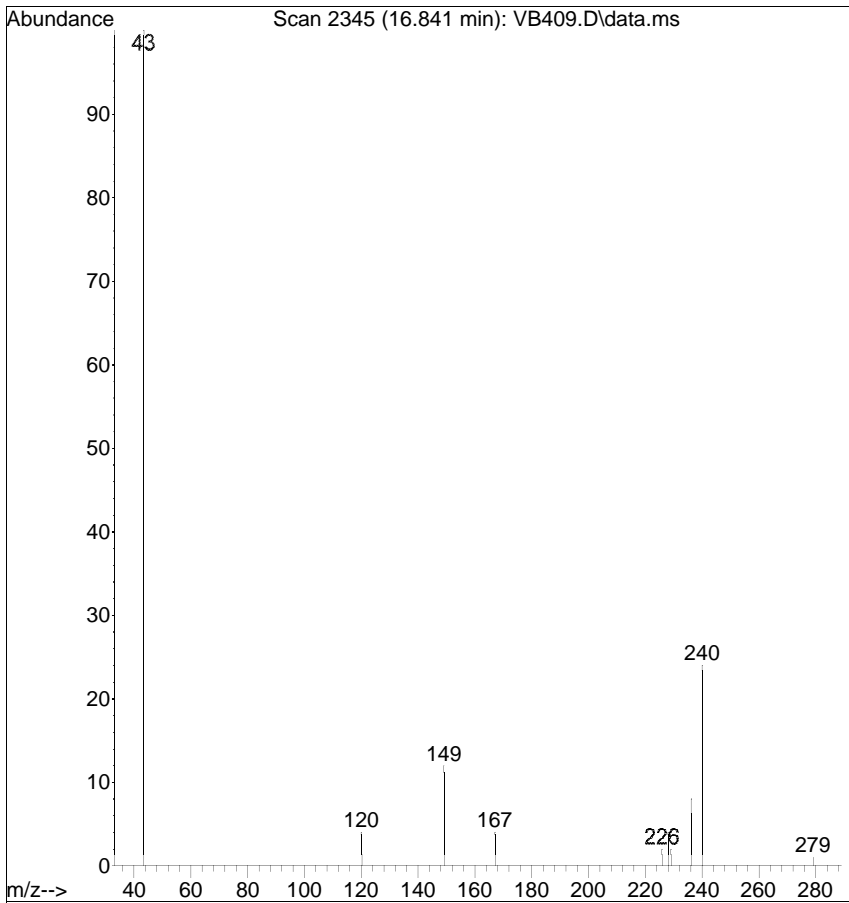
Tgt Ion	Ratio	Lower	Upper
228	100		
229	52.5	0.1	40.1#
226	34.1	9.3	49.3



Ref

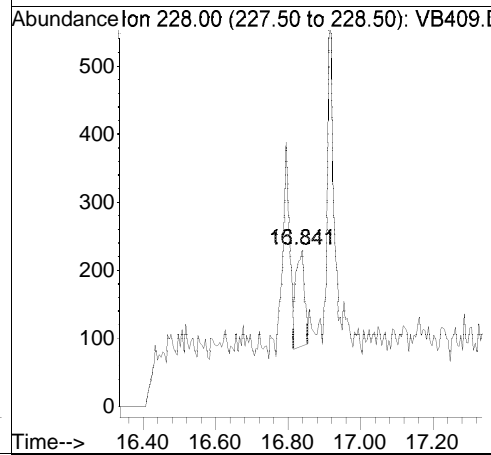


Raw

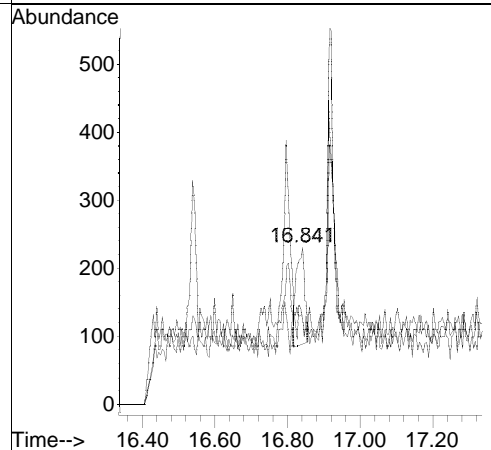
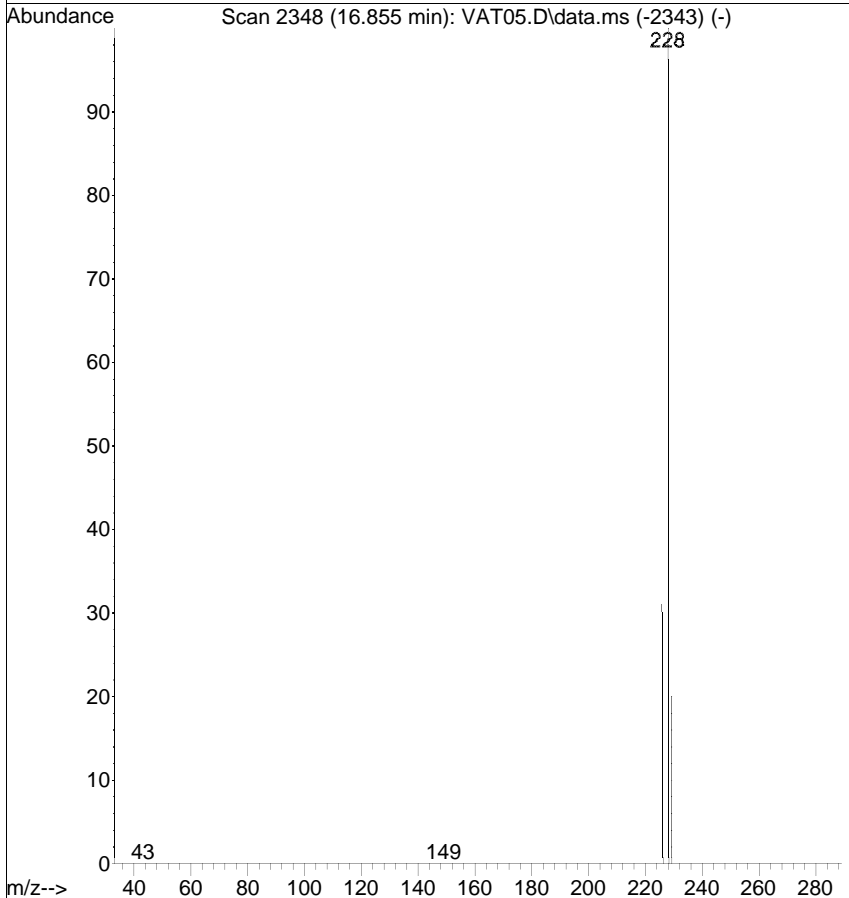


#22
 Chrysene
 Concen: 0.0026 ug/mL
 RT: 16.841 min Scan# 2345
 Delta R.T. -0.015 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

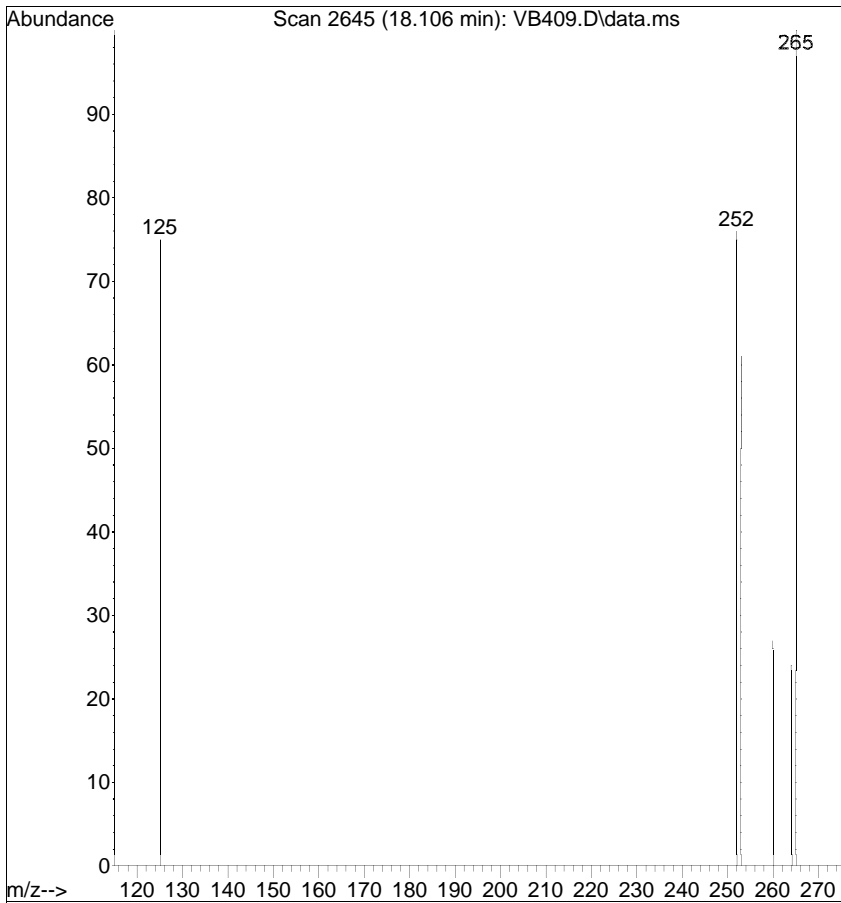
Tgt Ion	Ratio	Lower	Upper
228	100		
226	55.2	13.4	53.4#
229	55.7	0.8	40.8#



Ref

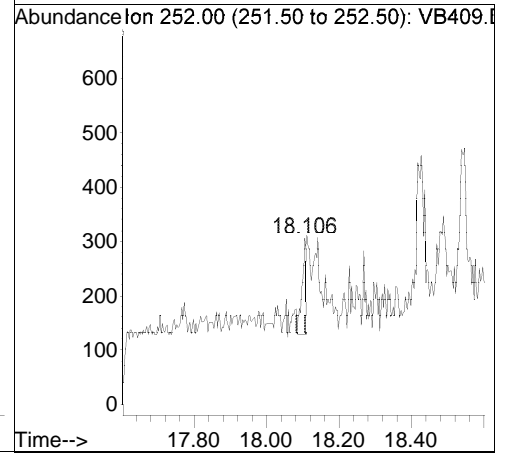


Raw

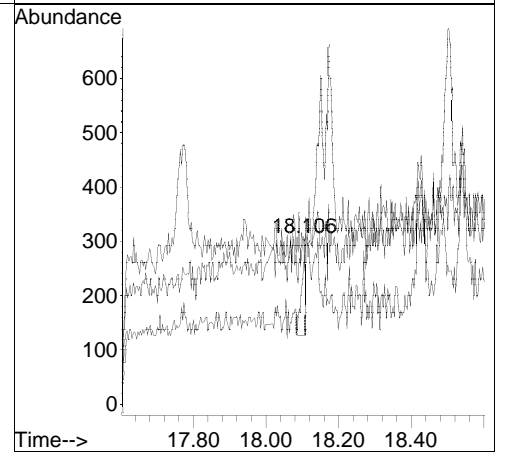
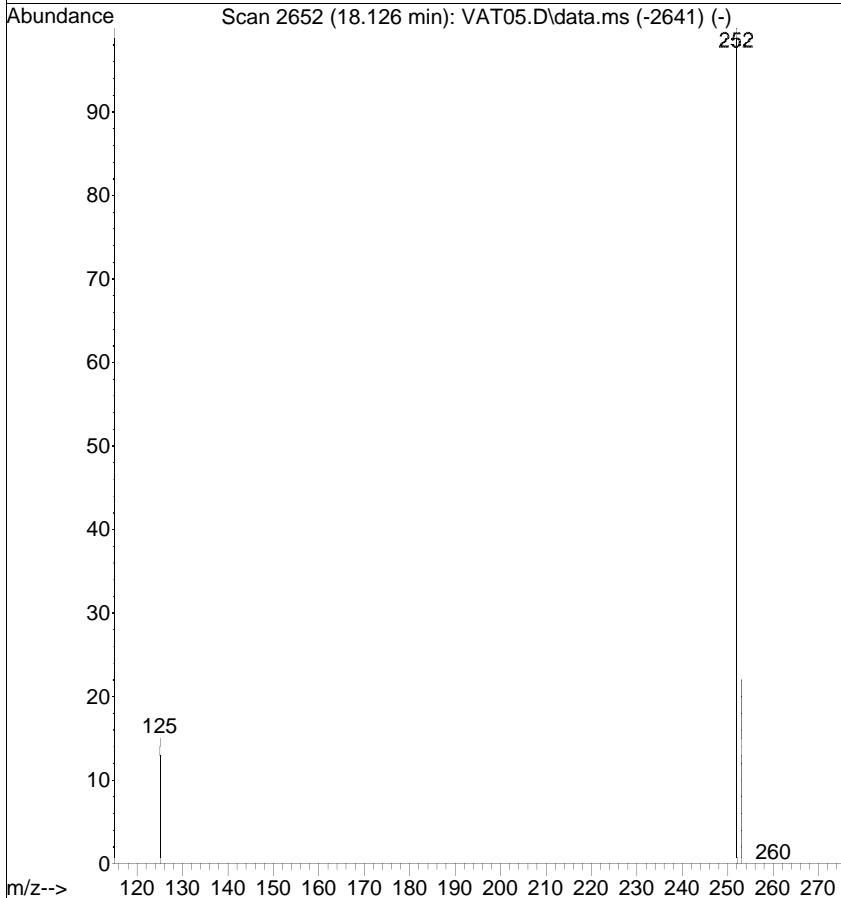


#24
 Benzo(b)fluoranthene
 Concen: 0.0013 ug/mL
 RT: 18.106 min Scan# 2645
 Delta R.T. -0.020 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

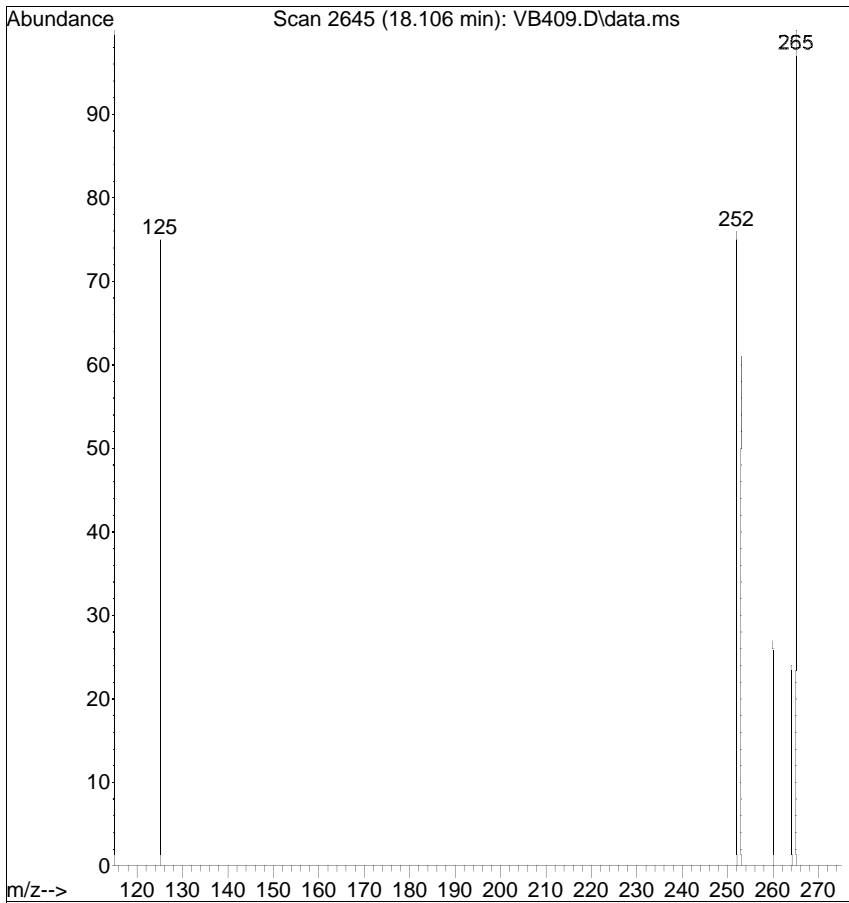
Tgt Ion	Ratio	Lower	Upper	Resp
252	100			138
253	80.1	1.0	41.0#	
125	98.0	0.0	20.9#	



Ref

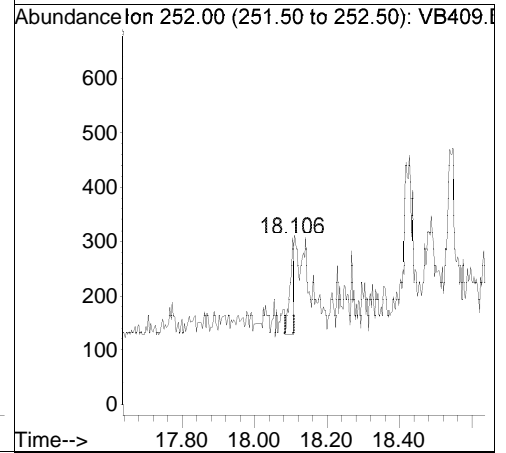


Raw

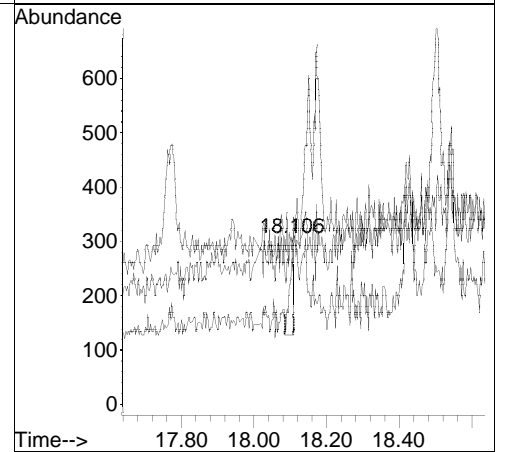
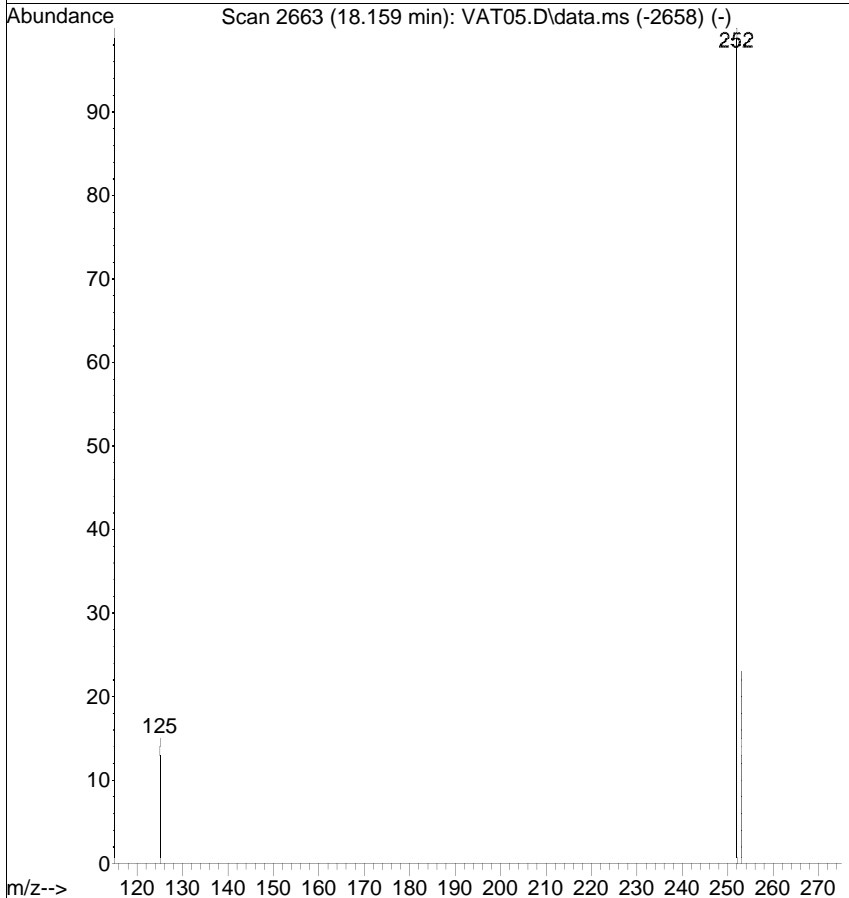


#25
 Benzo(k)fluoranthene
 Concen: 0.0014 ug/mL
 RT: 18.106 min Scan# 2645
 Delta R.T. -0.053 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

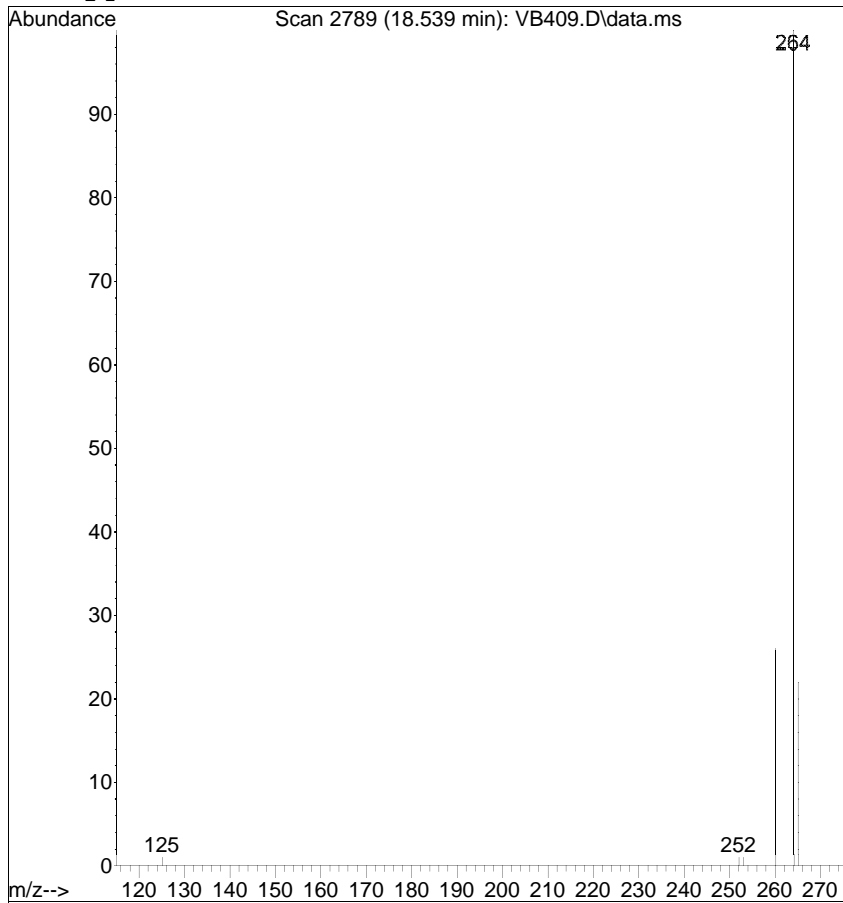
Tgt Ion	Ratio	Lower	Upper	Resp
252	100			138
253	80.1	1.1	41.1#	
125	98.0	0.0	21.1#	



Ref

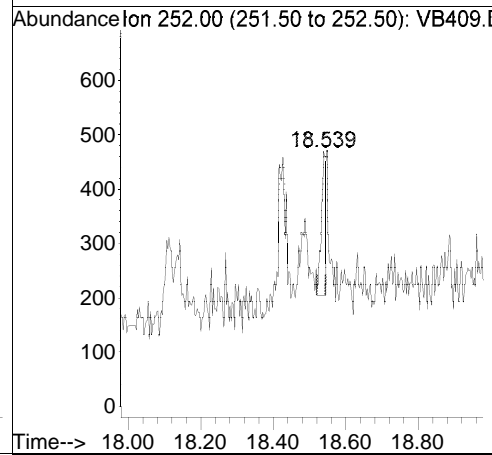


Raw

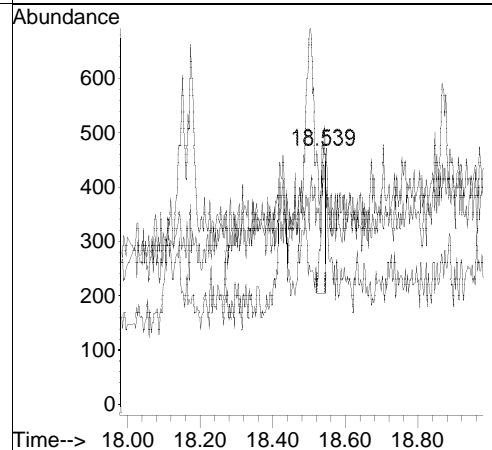
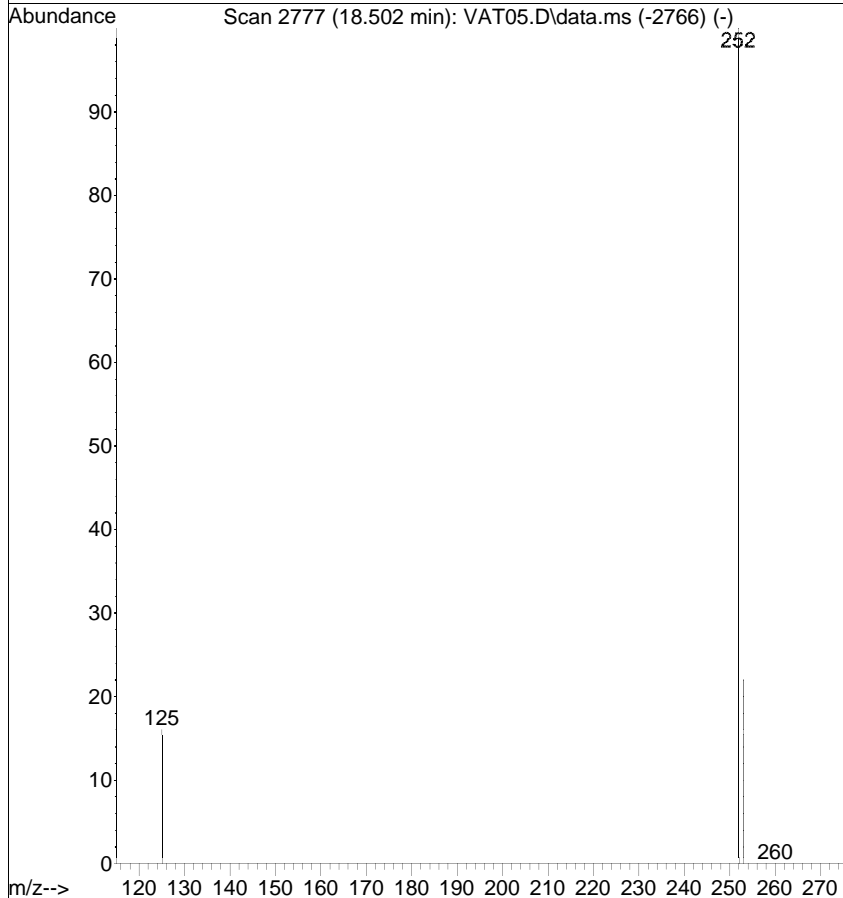


#26
 Benzo(a)pyrene
 Concen: 0.0027 ug/mL
 RT: 18.539 min Scan# 2789
 Delta R.T. 0.037 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

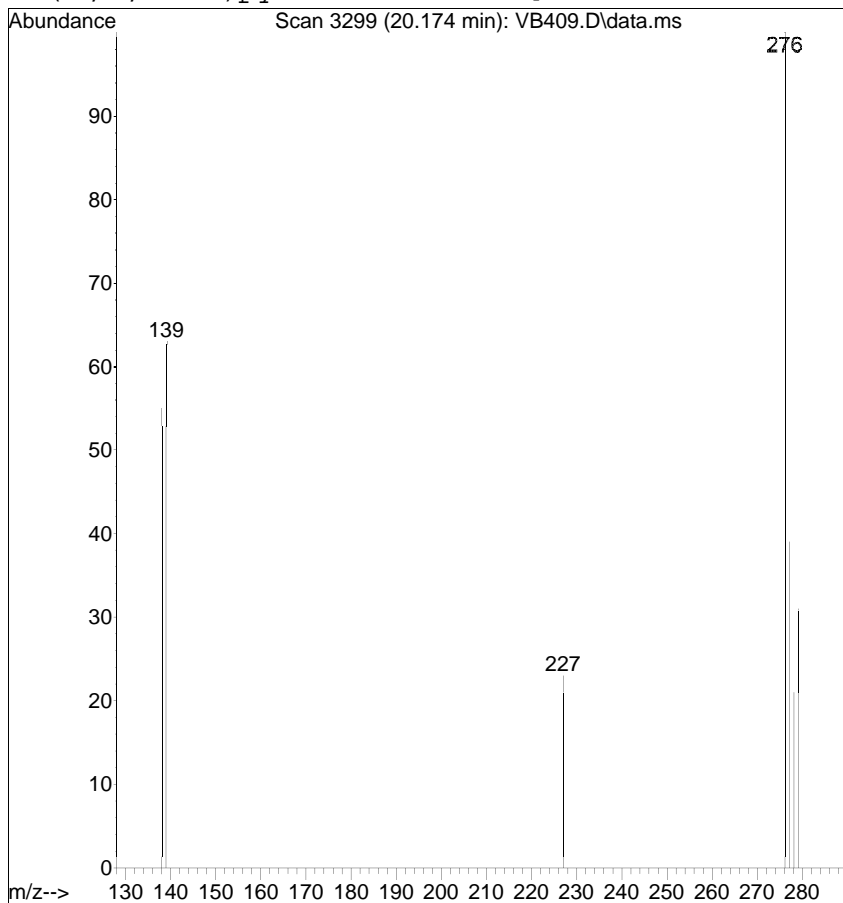
Tgt Ion	Ratio	Resp	Lower	Upper
252	100	234		
253	94.4		3.4	43.4#
125	99.8		0.0	20.9#



Ref

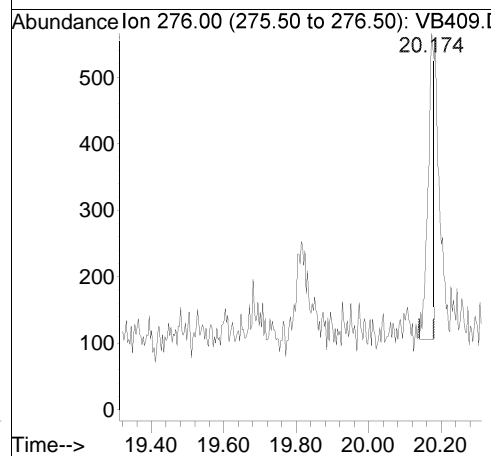


Raw

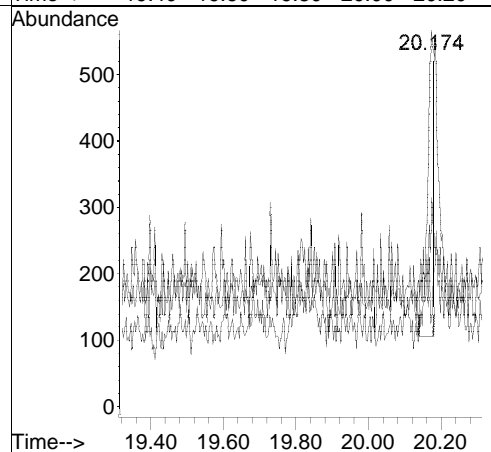
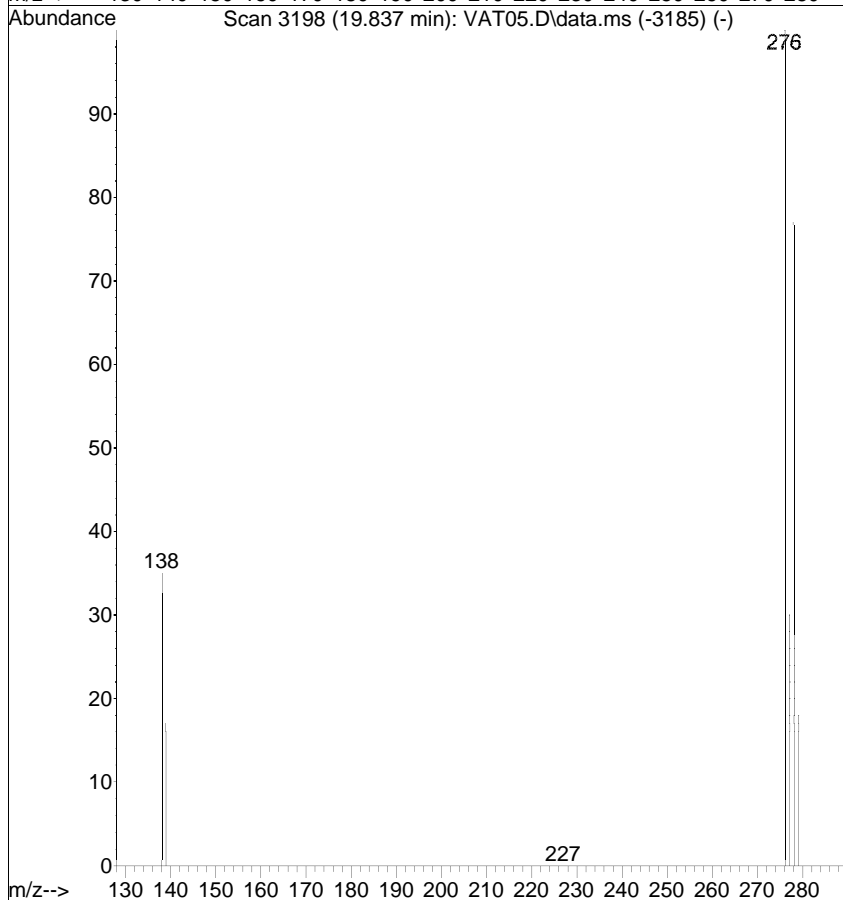


#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.0057 ug/mL
 RT: 20.174 min Scan# 3299
 Delta R.T. 0.337 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

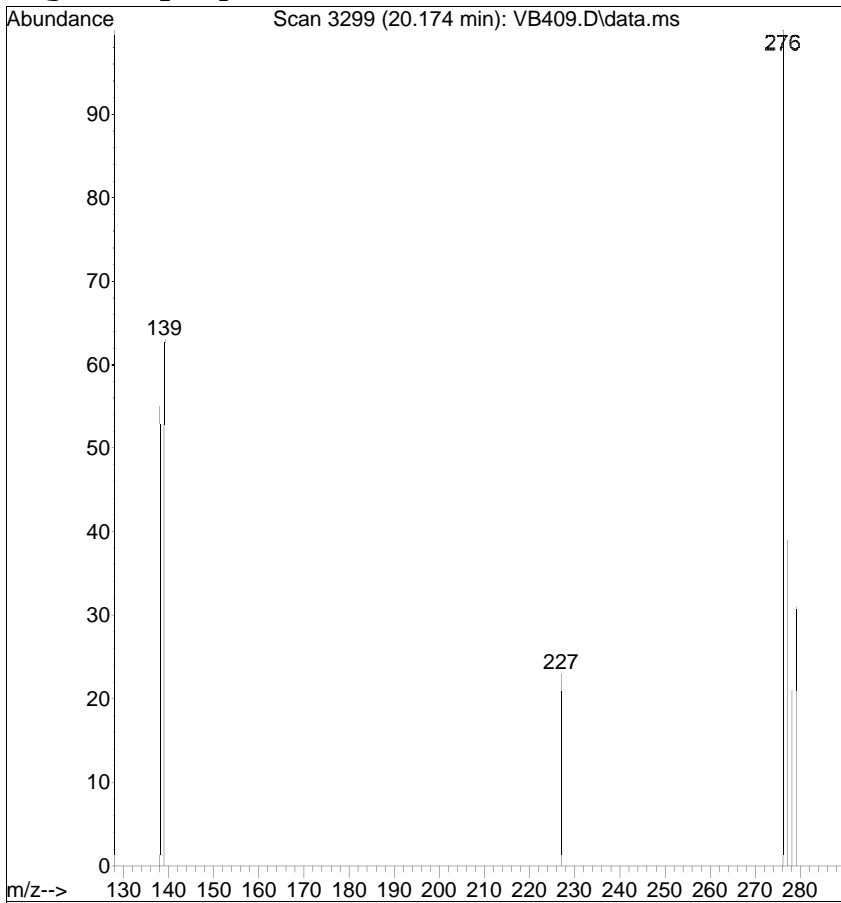
Tgt Ion	Ratio	Lower	Upper
276	100		
138	55.5	0.0	23.1#
227	23.1	0.0	21.0#



Ref

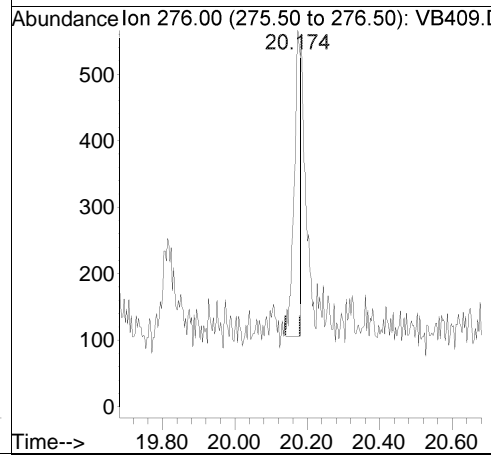


Raw

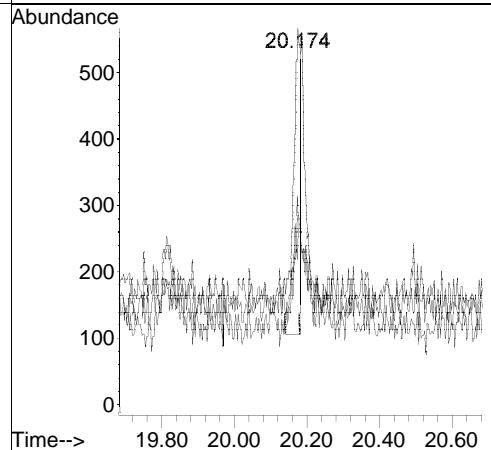
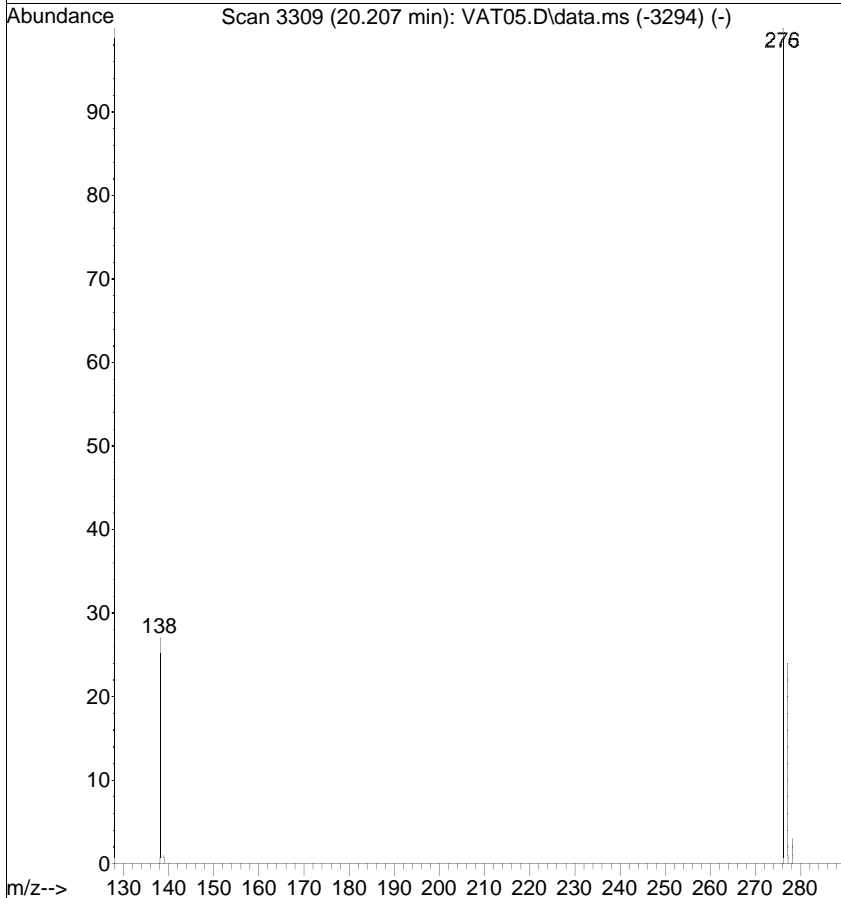


#29
 Benzo(g,h,i)perylene
 Concen: 0.0072 ug/mL
 RT: 20.174 min Scan# 3299
 Delta R.T. -0.033 min
 Lab File: VB409.D
 Acq: 4 Feb 2019 1:34 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	55.5	0.0	22.1#
277	38.5	2.5	42.5



Ref



ENTHALPY SAMPLE USER REPORT FOR EPA 8270C-SIM

Inst : MSBNA03 Lab ID : 306574-004 Client ID : DUP01182019-01
 Seqnum : 529050994010 Matrix : Water Acct : TRC-SF (MJD)
 File : vb410 Batch : 267157 Time : 04-FEB-2019 14:08
 Cal : 529010667001 Caldate : 07-JAN-2019
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	Raw	Result	RL	Blank	Flags
Naphthalene	0.006400	ND	0.1		u
Acenaphthylene	0.003700	ND	0.1		u
Acenaphthene	0.005400	ND	0.1		u
Fluorene	0.003000	ND	0.1		u
Phenanthrene	0.005000	ND	0.1		u
Anthracene	0.005300	ND	0.1		u
Fluoranthene	0.004300	ND	0.1		u
Pyrene	0.01150	ND	0.1		u
Benzo(a)anthracene	0.003400	ND	0.1		u
Chrysene	0.001400	ND	0.1		u
Benzo(b)fluoranthene	0.003100	ND	0.1		u
Benzo(k)fluoranthene	0.003300	ND	0.1		u
Benzo(a)pyrene	0.003700	ND	0.1		u
Indeno(1,2,3-cd)pyrene	0.006100	ND	0.1		u
Dibenz(a,h)anthracene	0	ND	0.1		u
Benzo(g,h,i)perylene	0.007600	ND	0.1		u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.8649	1.000	0.8649	86	58-134	u
2-Fluorobiphenyl	0.7926	1.000	0.7926	79	53-120	u
Terphenyl-d14	0.8522	1.000	0.8522	85	18-128	u

ISTD (CCV vb406)	CCV Area	SAMPLE Area	%Drift	CCV RT	SAMPLE RT	Drift
Naphthalene-d8	68247	66884	-2.00	9.04	9.04	0.00
Acenaphthene-d10	39412	41803	6.07	11.36	11.36	0.00
Phenanthrene-d10	88300	89419	1.27	13.32	13.32	0.00
Chrysene-d12	74054	73239	-1.10	16.80	16.80	0.00
Perylene-d12	71368	74679	4.64	18.54	18.54	0.00

5% spike rule

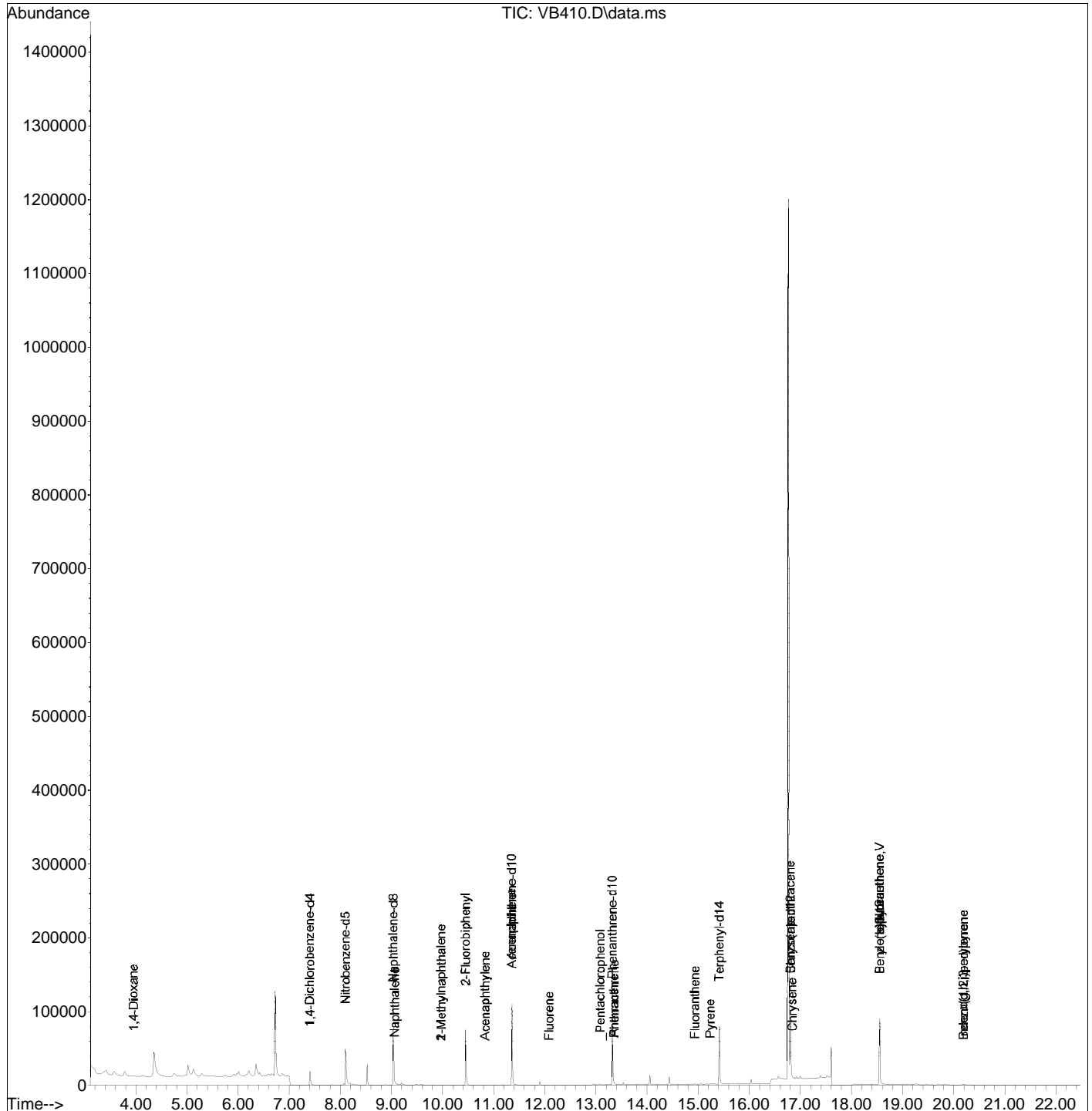
Analyst: ECI Date: 02/04/19 Reviewer: LW Date: 02/04/19

u=use

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\020419\
 Data File : VB410.D
 Acq On : 4 Feb 2019 2:08 pm
 Operator :
 Sample : s,306574-004
 Misc : 267157,1,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 14:31:18 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 29 11:12:04 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\020419\
 Data File : VB410.D
 Acq On : 4 Feb 2019 2:08 pm
 Operator :
 Sample : s,306574-004
 Misc : 267157,1,
 ALS Vial : 10 Sample Multiplier: 1

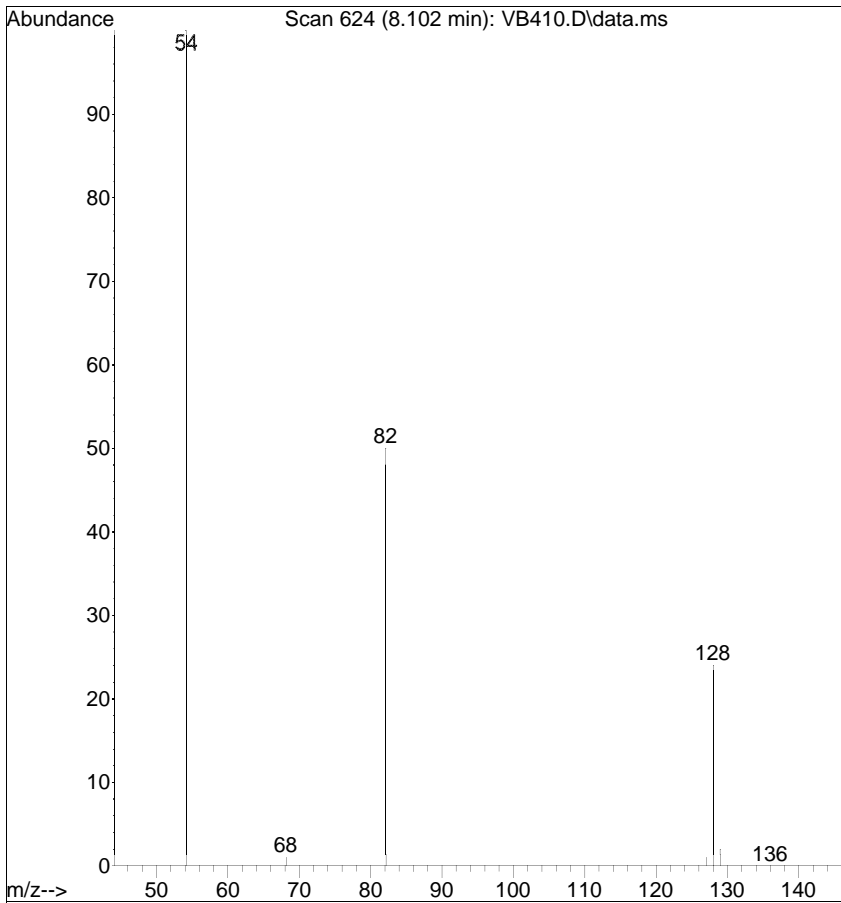
Quant Time: Feb 04 14:31:18 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 29 11:12:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.401	152	17430	1.0000	ug/mL	-0.02
3) Naphthalene-d8	9.035	136	66884	1.0000	ug/mL	-0.03
8) Acenaphthene-d10	11.356	164	41803	1.0000	ug/mL	-0.02
13) Phenanthrene-d10	13.318	188	89419	1.0000	ug/mL	-0.02
18) Chrysene-d12	16.801	240	73239	1.0000	ug/mL	-0.02
23) Perylene-d12	18.544	264	74679	1.0000	ug/mL	-0.02

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.953	88	241	0.0384	ug/mL	# 27
4) Nitrobenzene-d5	8.102	82	19437	0.8649	ug/mL	# 1
5) Naphthalene	9.066	128	411	0.0064	ug/mL	58
6) 2-Methylnaphthalene	9.974	142	155	0.0031	ug/mL	# 64
7) 1-Methylnaphthalene	9.974	142	155	0.0035	ug/mL	# 64
9) 2-Fluorobiphenyl	10.451	172	59806	0.7926	ug/mL	99
10) Acenaphthylene	10.834	152	272	0.0037	ug/mL	# 1
11) Acenaphthene	11.351	154	256	0.0054	ug/mL	# 41
12) Fluorene	12.083	166	176	0.0030	ug/mL	# 60
14) _Pentachlorophenol	13.081	266	129	0.2761	ug/mL	85
15) Phenanthrene	13.354	178	432	0.0050	ug/mL	62
16) Anthracene	13.354	178	432	0.0053	ug/mL	# 63
17) Fluoranthene	14.931	202	448	0.0043	ug/mL	# 44
19) Pyrene	15.232	202	1107	0.0115	ug/mL	70
20) Terphenyl-d14	15.411	244	69740	0.8522	ug/mL	96
21) Benzo(a)anthracene	16.801	228	300	0.0034	ug/mL	# 56
22) Chrysene	16.836	228	118	0.0014	ug/mL	# 27
24) Benzo(b)fluoranthene	18.544	252	305	0.0031	ug/mL	# 1
25) Benzo(k)fluoranthene	18.544	252	305	0.0033	ug/mL	# 1
26) Benzo(a)pyrene	18.544	252	305	0.0037	ug/mL	# 1
27) Indeno(1,2,3-cd)pyrene	20.183	276	546	0.0061	ug/mL	# 1
28) Dibenz(a,h)anthracene	0.000	278	0	N.D.		
29) Benzo(g,h,i)perylene	20.183	276	546	0.0076	ug/mL	# 50

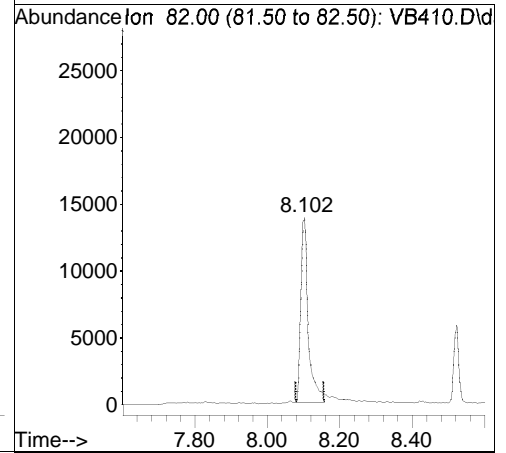
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

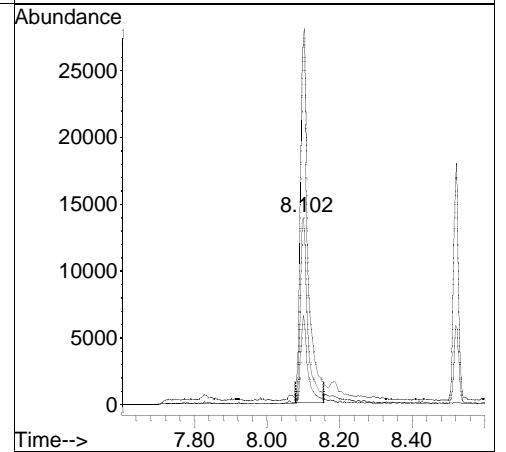
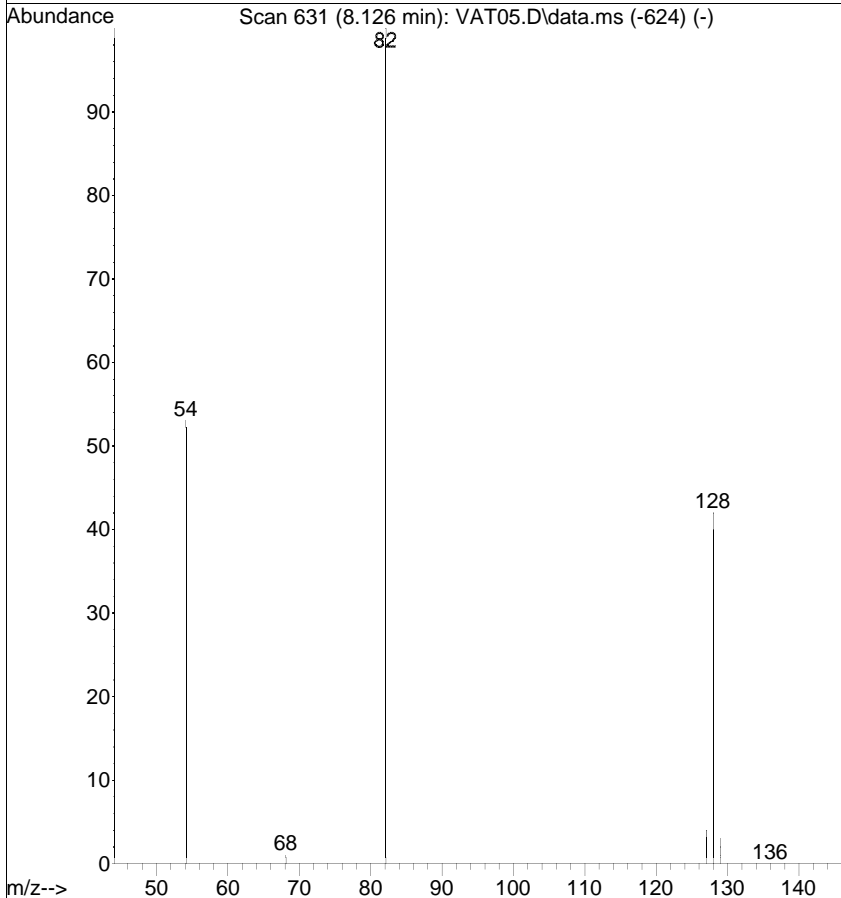


#4
 Nitrobenzene-d5
 Concen: 0.8649 ug/mL
 RT: 8.102 min Scan# 624
 Delta R.T. -0.024 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

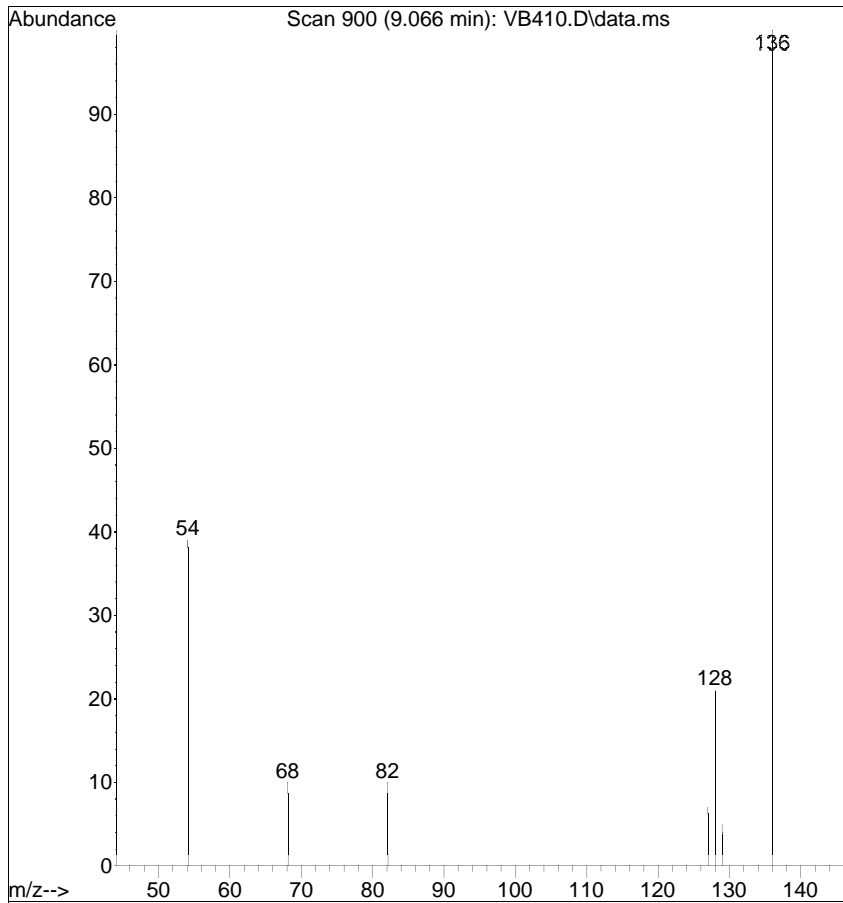
Tgt Ion	Resp	Lower	Upper
82	19437		
128	47.6	10.5	50.5
54	200.7	56.2	96.2#



Ref

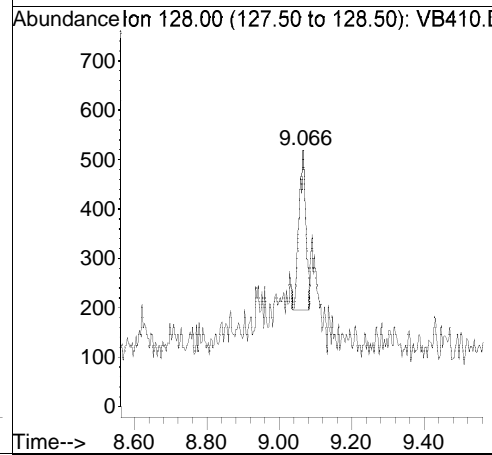


Raw

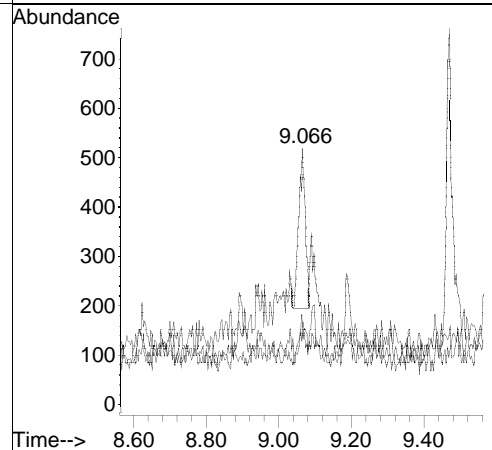
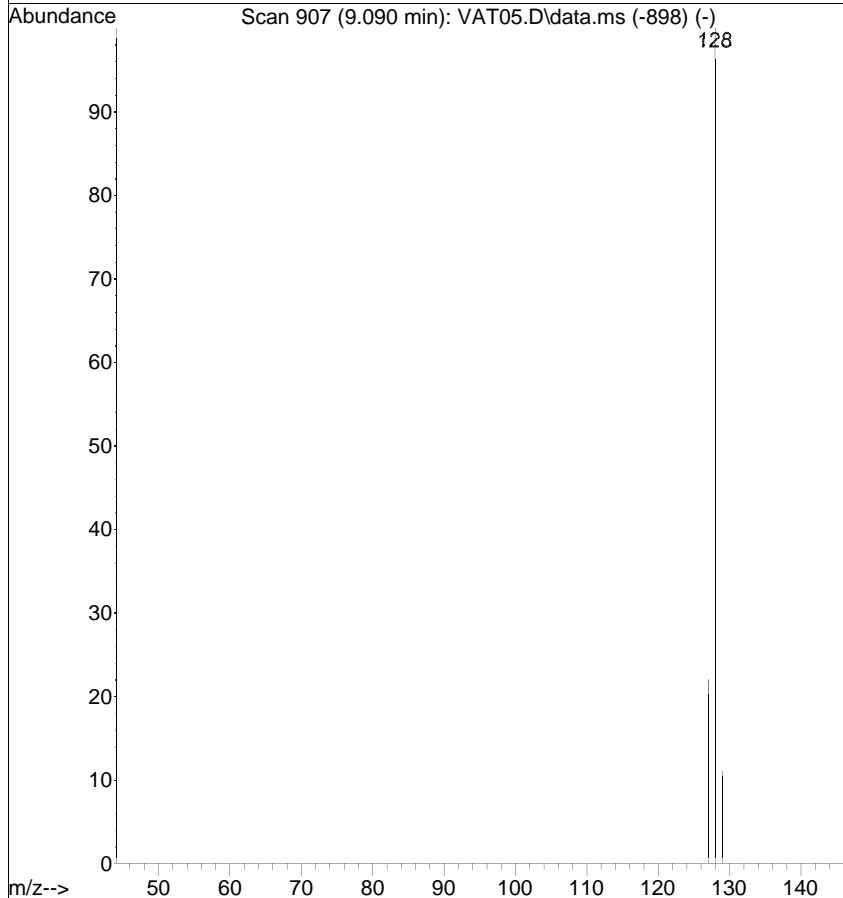


#5
 Naphthalene
 Concen: 0.0064 ug/mL
 RT: 9.066 min Scan# 900
 Delta R.T. -0.024 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

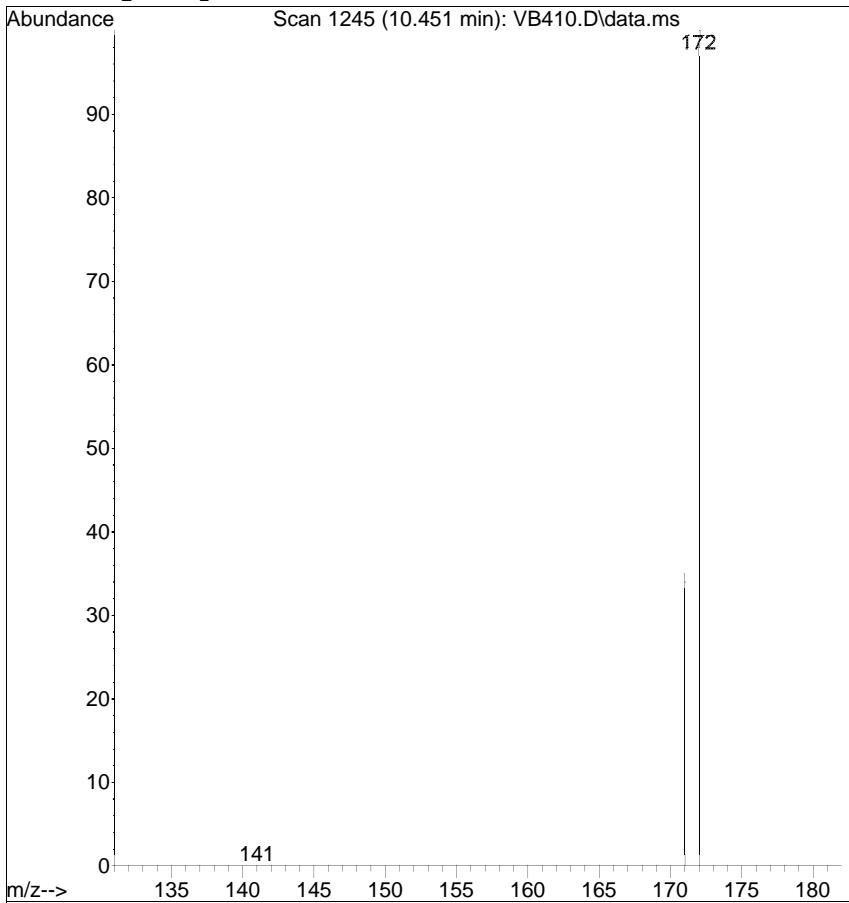
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	411		
129	25.4		0.0	31.1
127	32.4		0.0	34.0



Ref

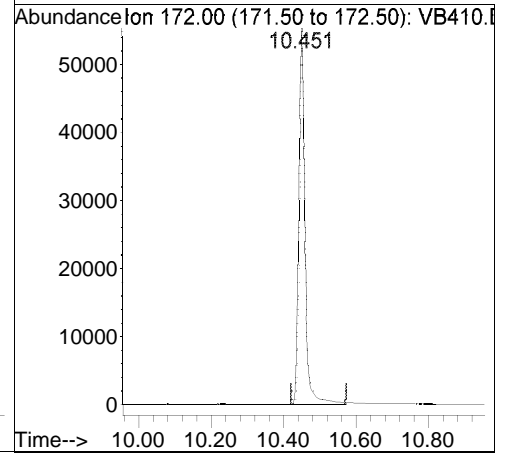


Raw

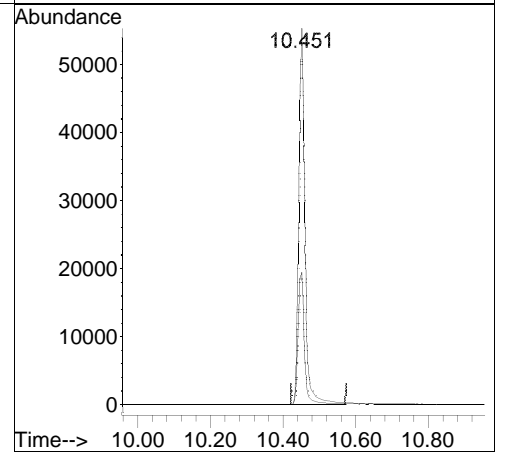
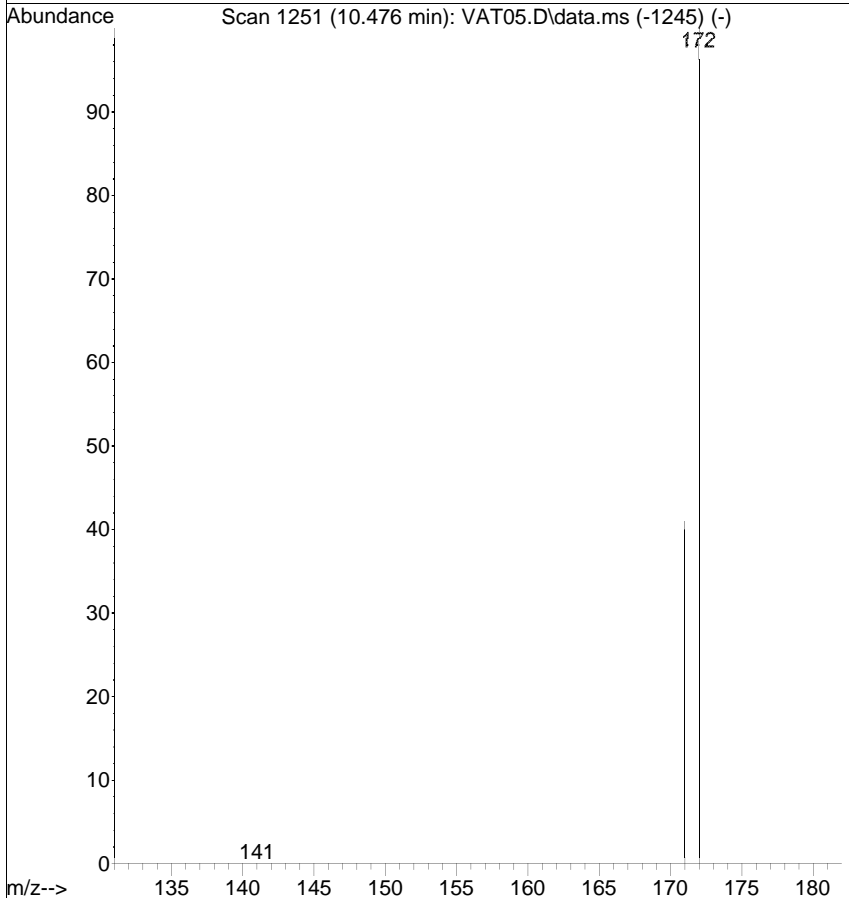


#9
2-Fluorobiphenyl
Concen: 0.7926 ug/mL
RT: 10.451 min Scan# 1245
Delta R.T. -0.025 min
Lab File: VB410.D
Acq: 4 Feb 2019 2:08 pm

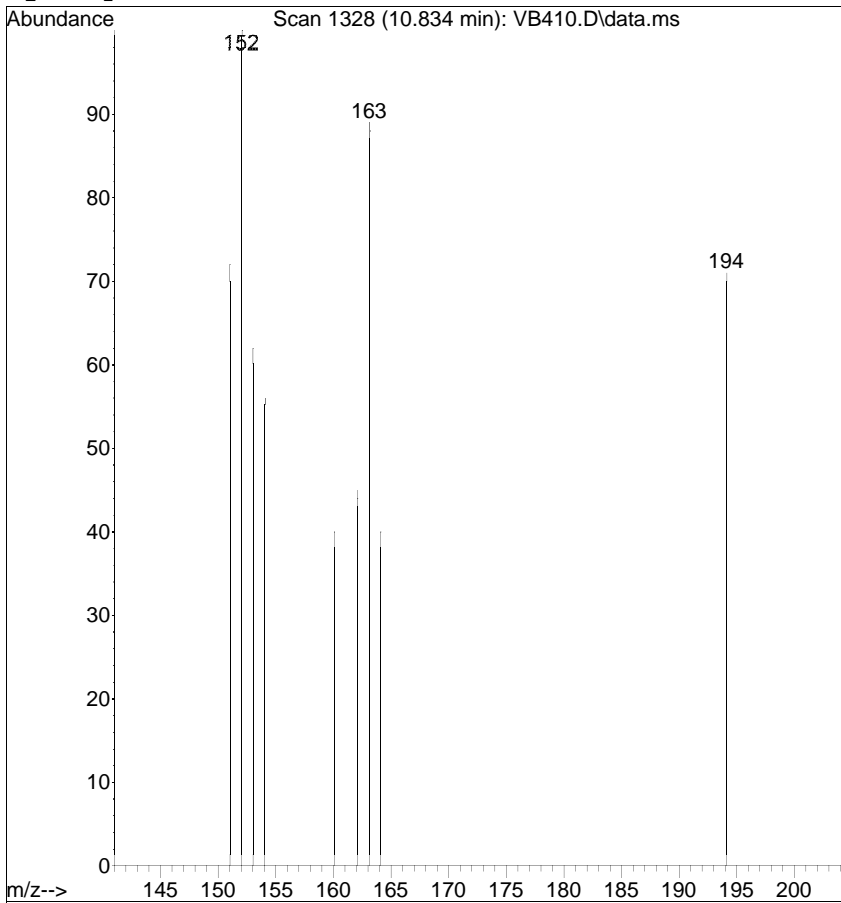
Tgt Ion	Resp	Lower	Upper
172	59806	100	100
171	35.1	14.4	54.4



Ref

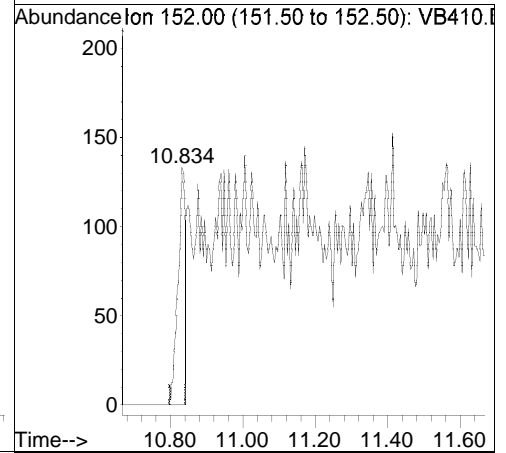


Raw

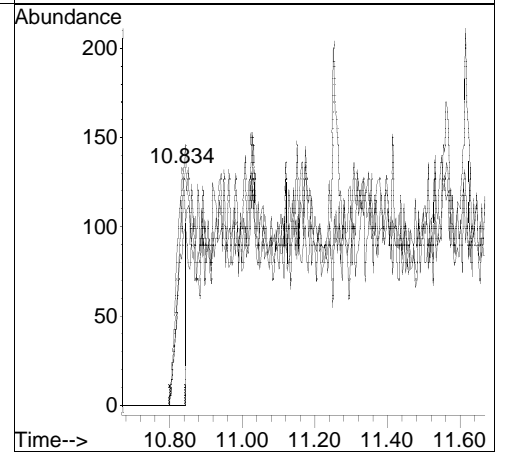
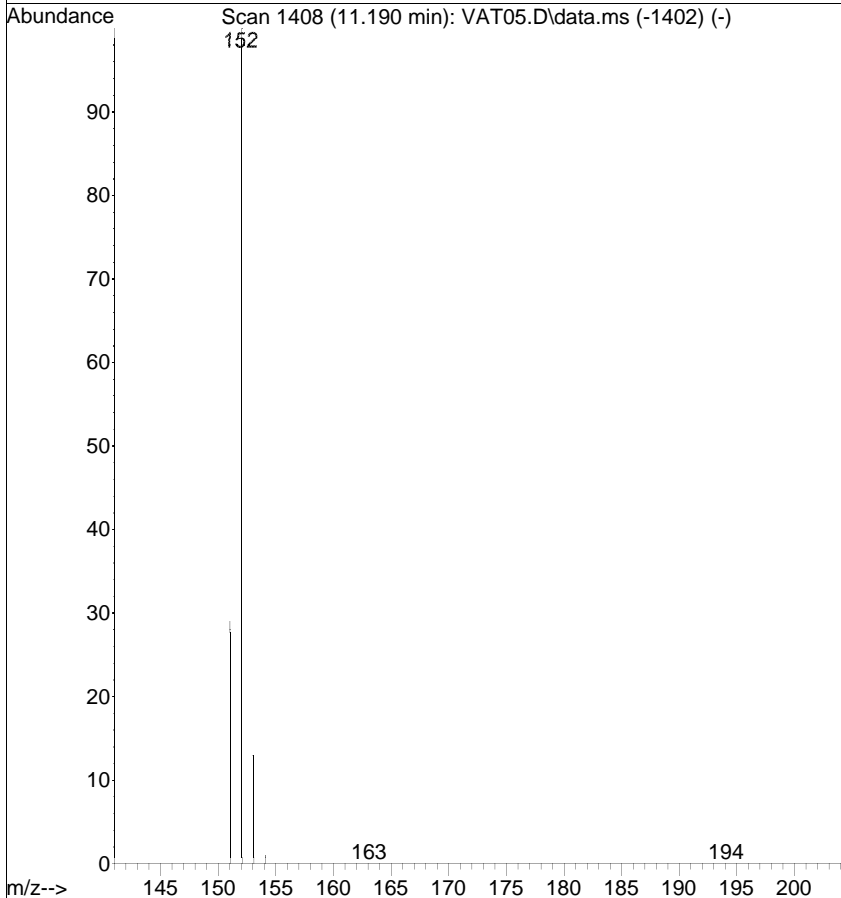


#10
 Acenaphthylene
 Concen: 0.0037 ug/mL
 RT: 10.834 min Scan# 1328
 Delta R.T. -0.356 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

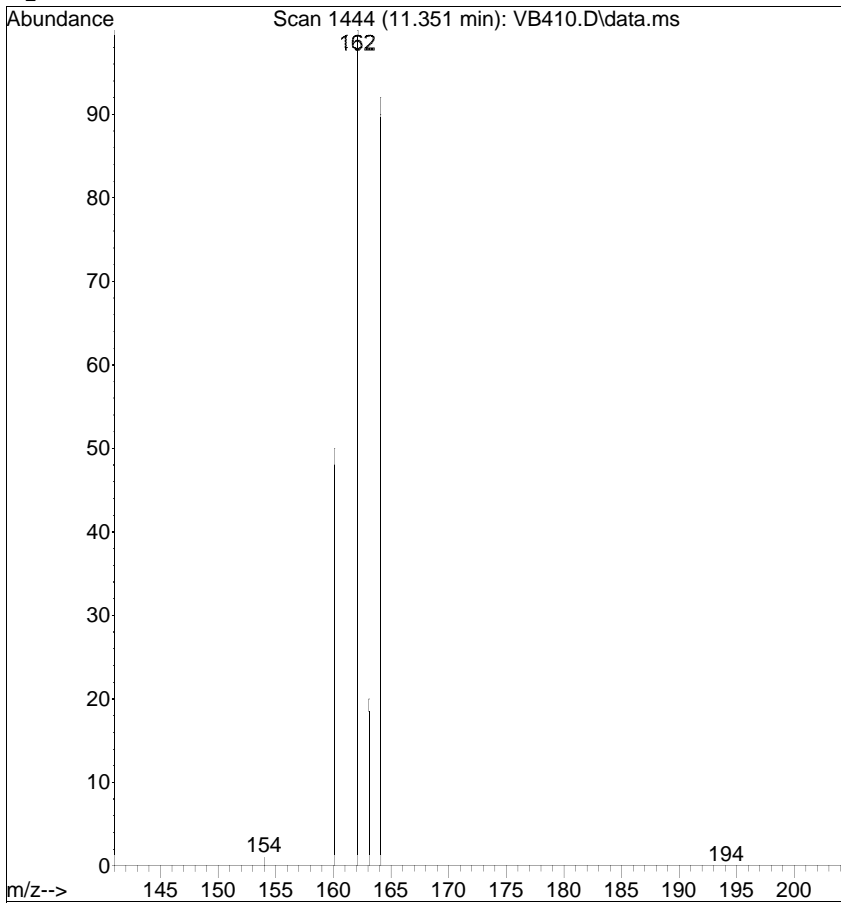
Tgt Ion	Resp	Lower	Upper
152	100		
151	72.2	1.0	41.0#
153	61.7	0.0	33.1#



Ref

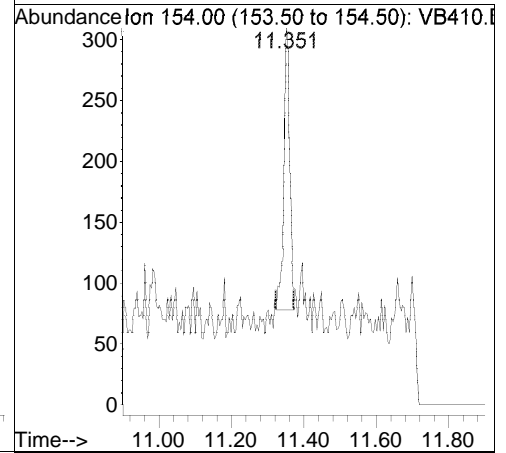


Raw

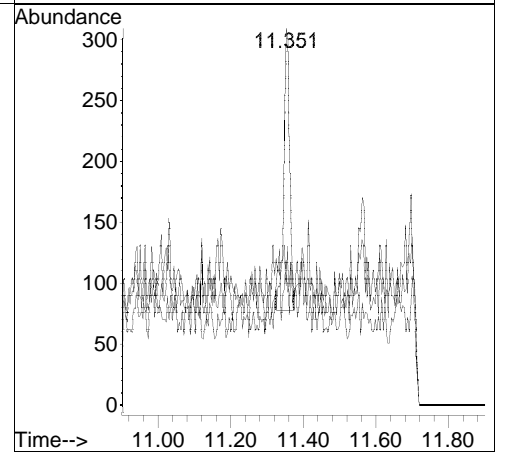
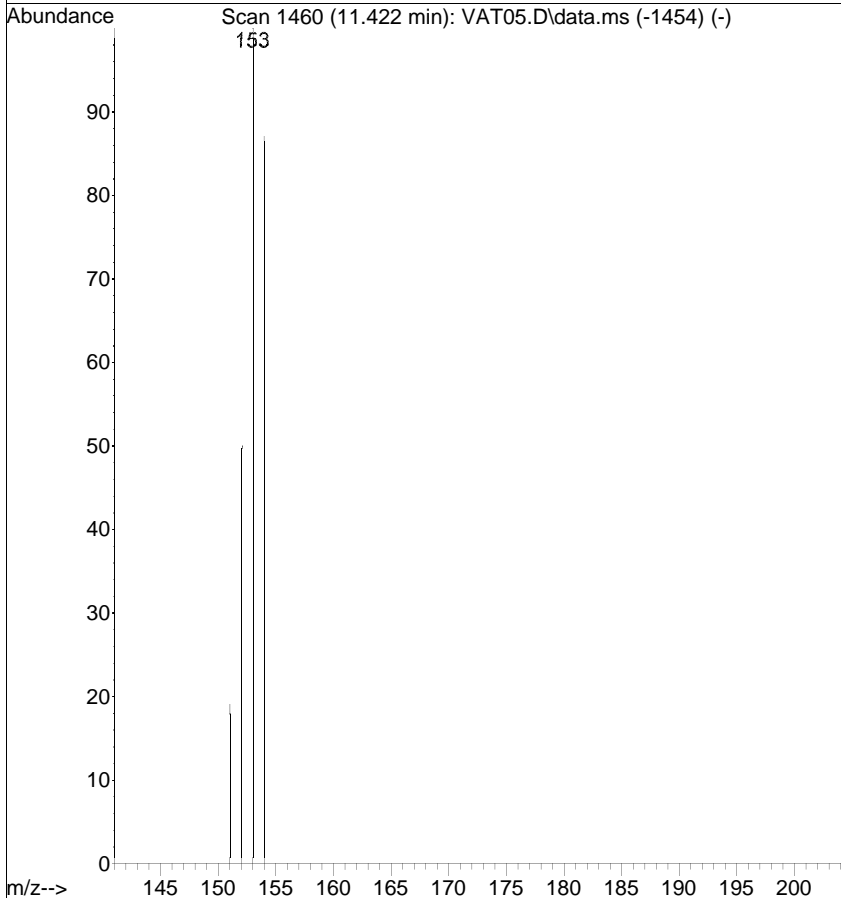


#11
 Acenaphthene
 Concen: 0.0054 ug/mL
 RT: 11.351 min Scan# 1444
 Delta R.T. -0.071 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

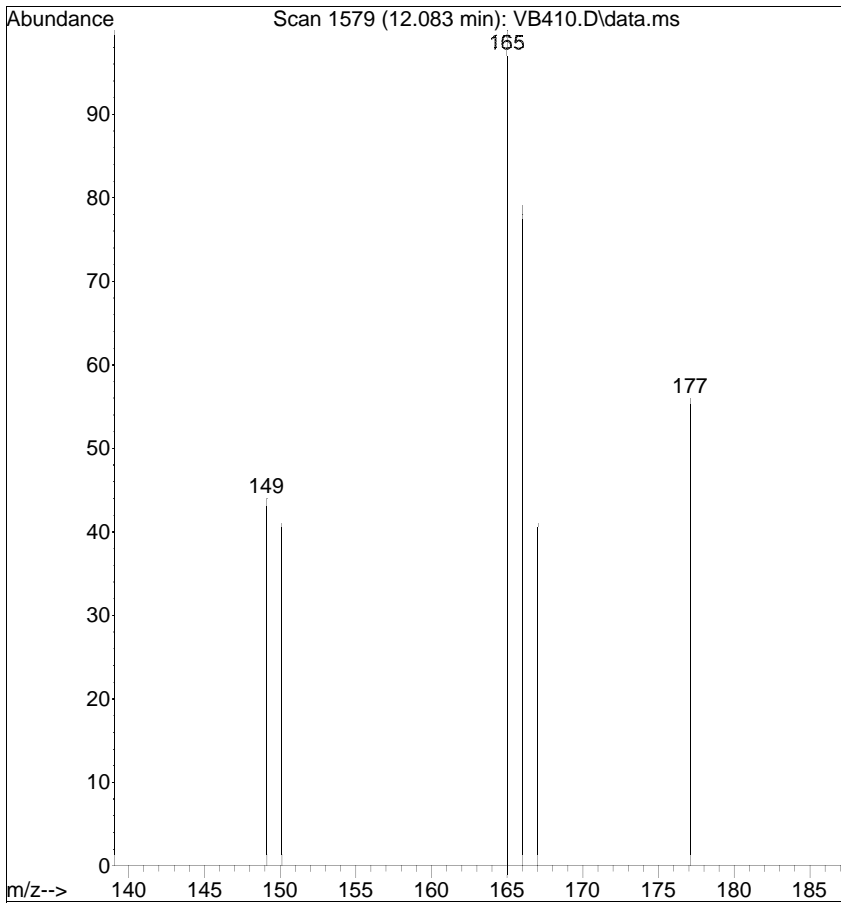
Tgt Ion	Ratio	Lower	Upper
154	100		
152	31.7	35.4	75.4#
153	38.5	96.8	136.8#



Ref

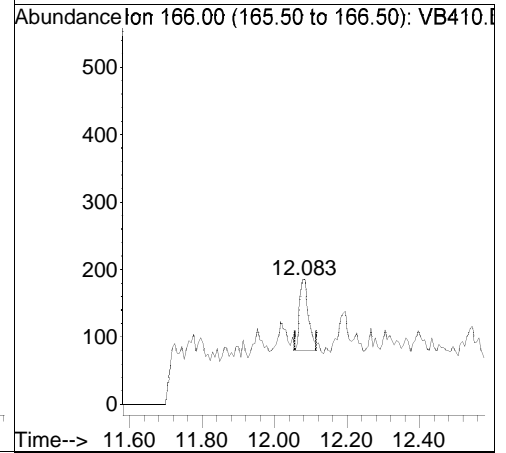


Raw

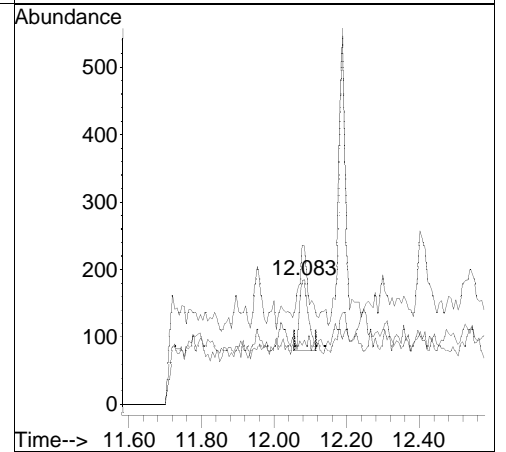
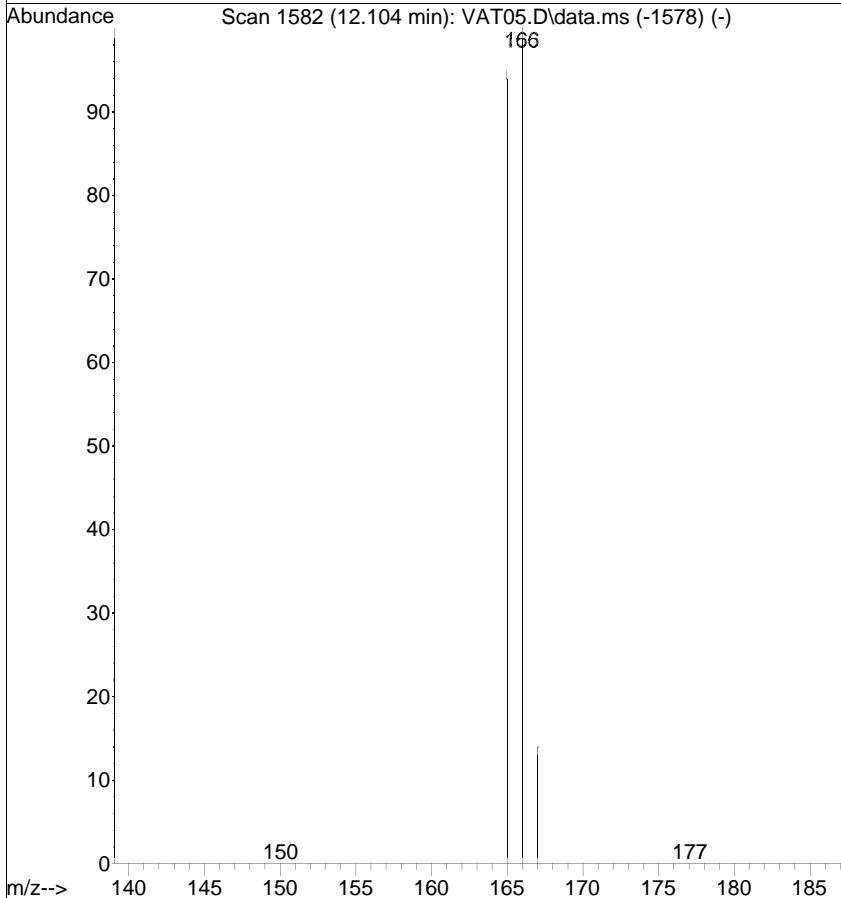


#12
 Fluorene
 Concen: 0.0030 ug/mL
 RT: 12.083 min Scan# 1579
 Delta R.T. -0.021 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

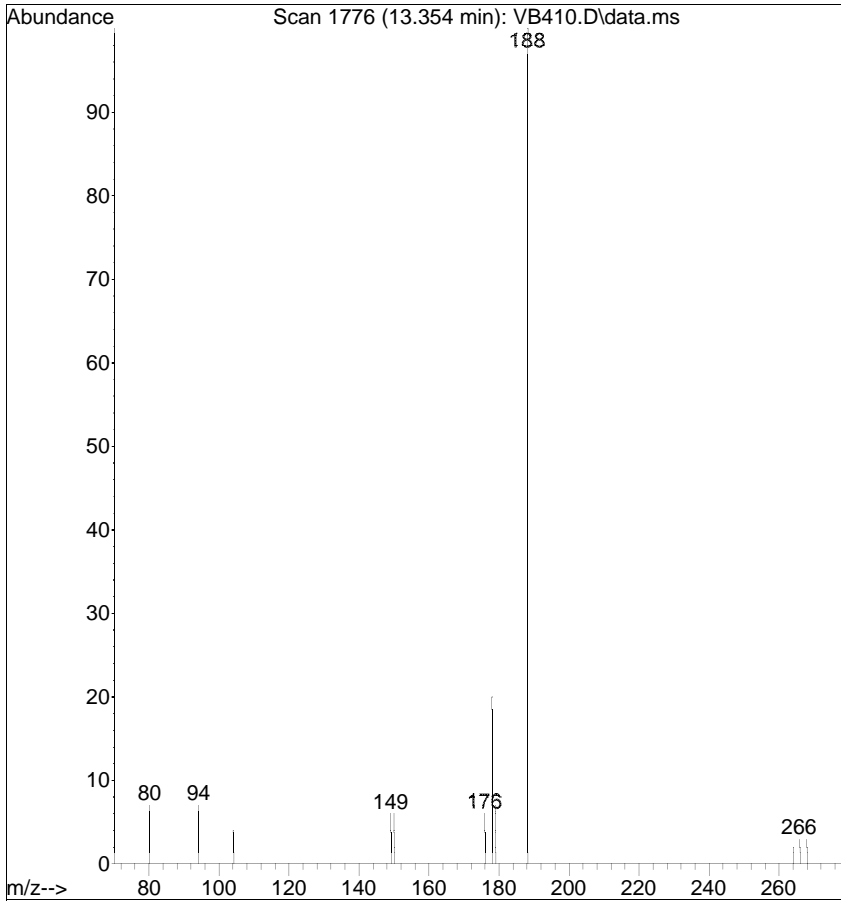
Tgt Ion	Resp	Lower	Upper
166	100		
165	126.5	74.9	114.9#
167	51.4	0.0	33.9#



Ref

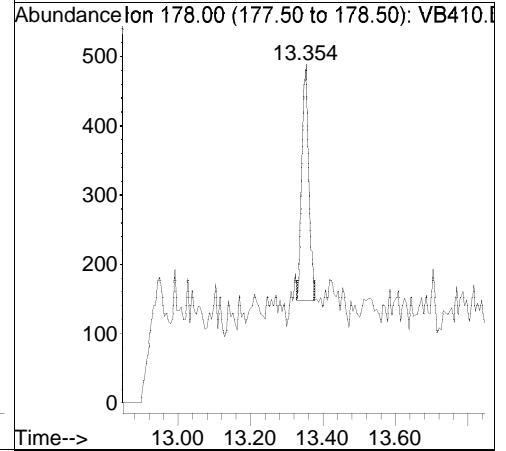


Raw

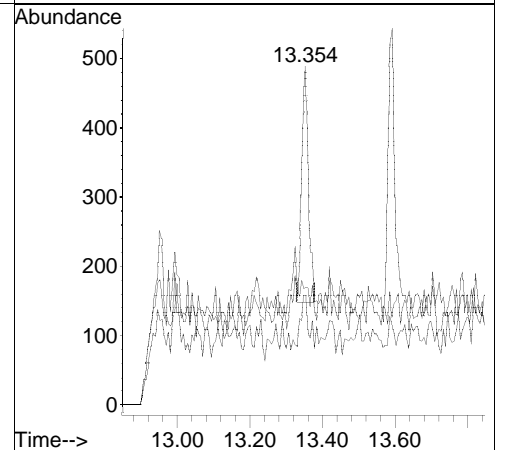
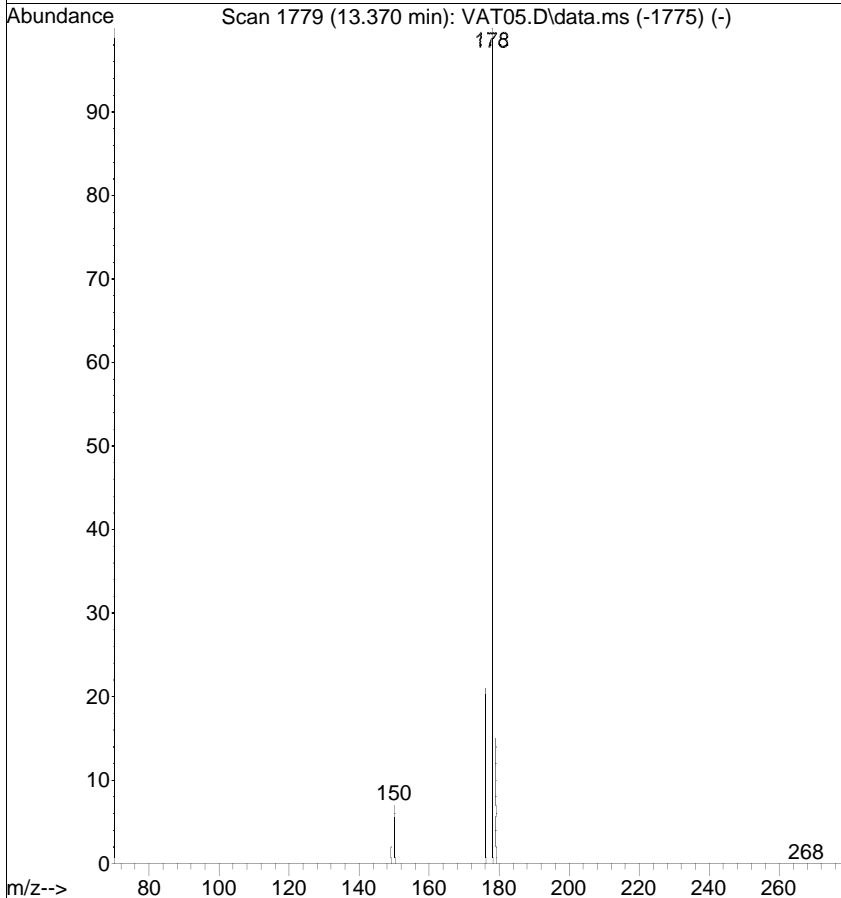


#15
 Phenanthrene
 Concen: 0.0050 ug/mL
 RT: 13.354 min Scan# 1776
 Delta R.T. -0.017 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

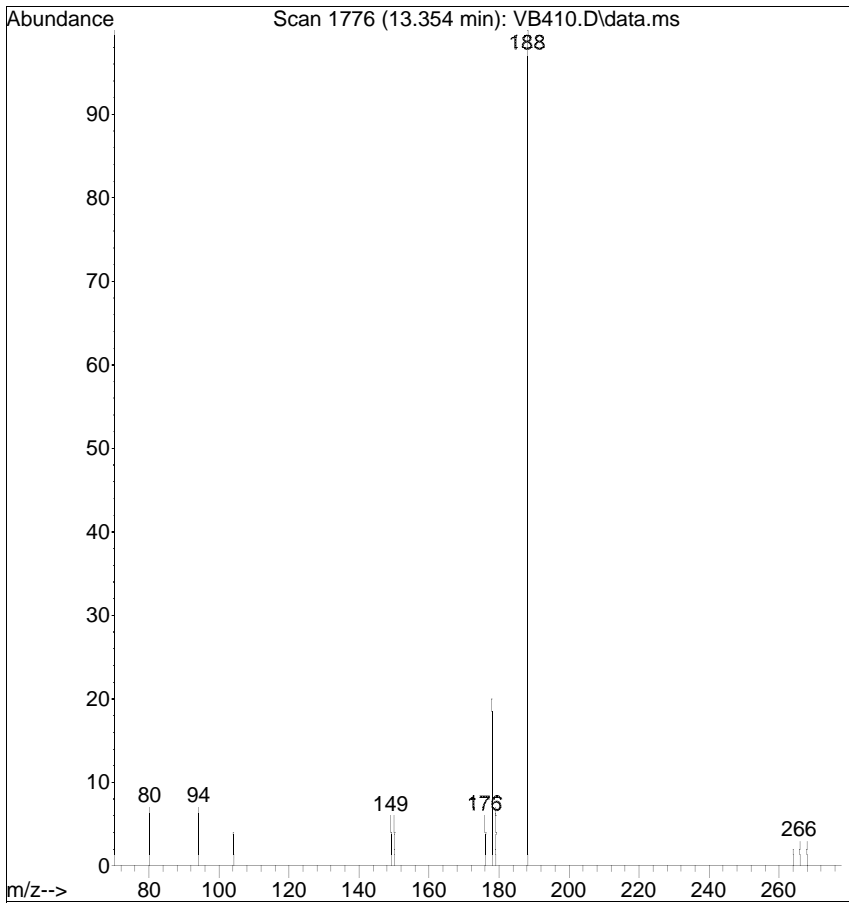
Tgt Ion	Resp	Lower	Upper
178	432		
179	34.8	0.0	35.0
176	32.4	0.0	38.9



Ref

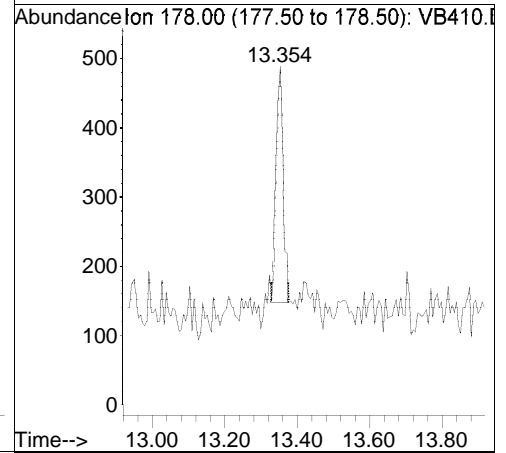


Raw

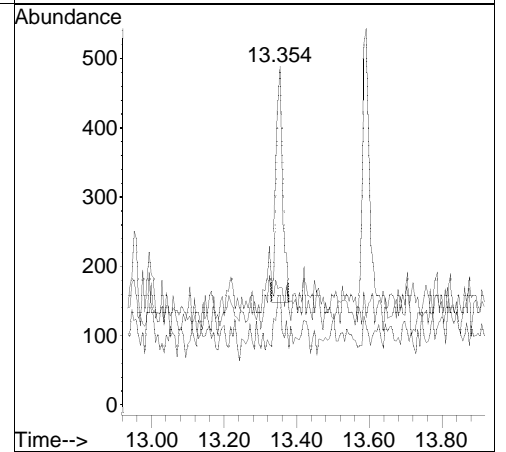
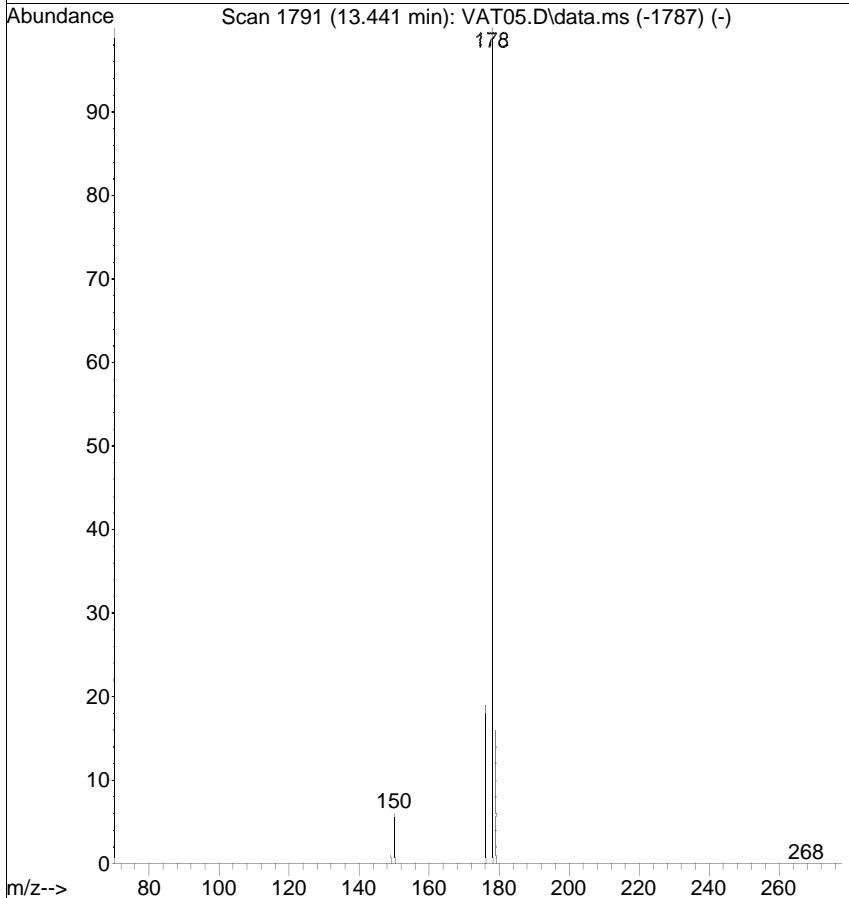


#16
 Anthracene
 Concen: 0.0053 ug/mL
 RT: 13.354 min Scan# 1776
 Delta R.T. -0.088 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

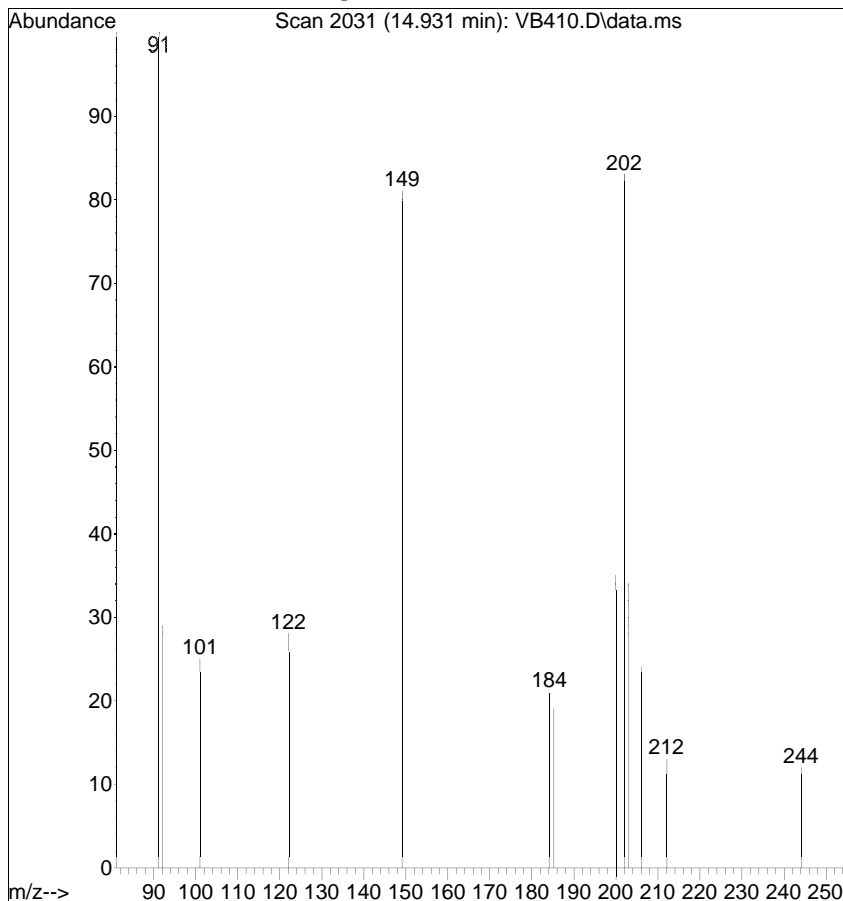
Tgt Ion	Ratio	Lower	Upper
178	100		
179	34.8	0.0	34.4#
176	32.4	0.0	39.5



Ref

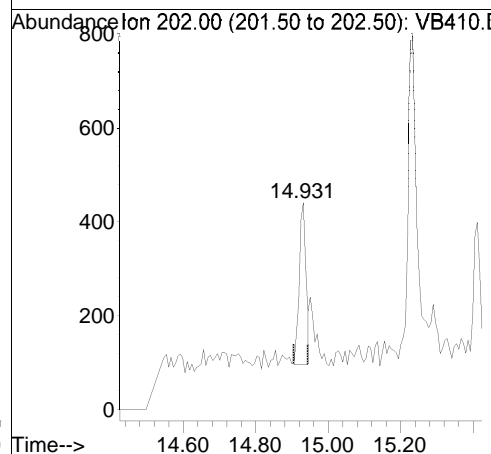


Raw

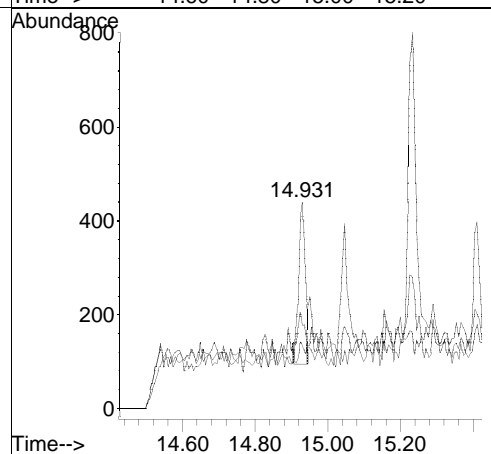
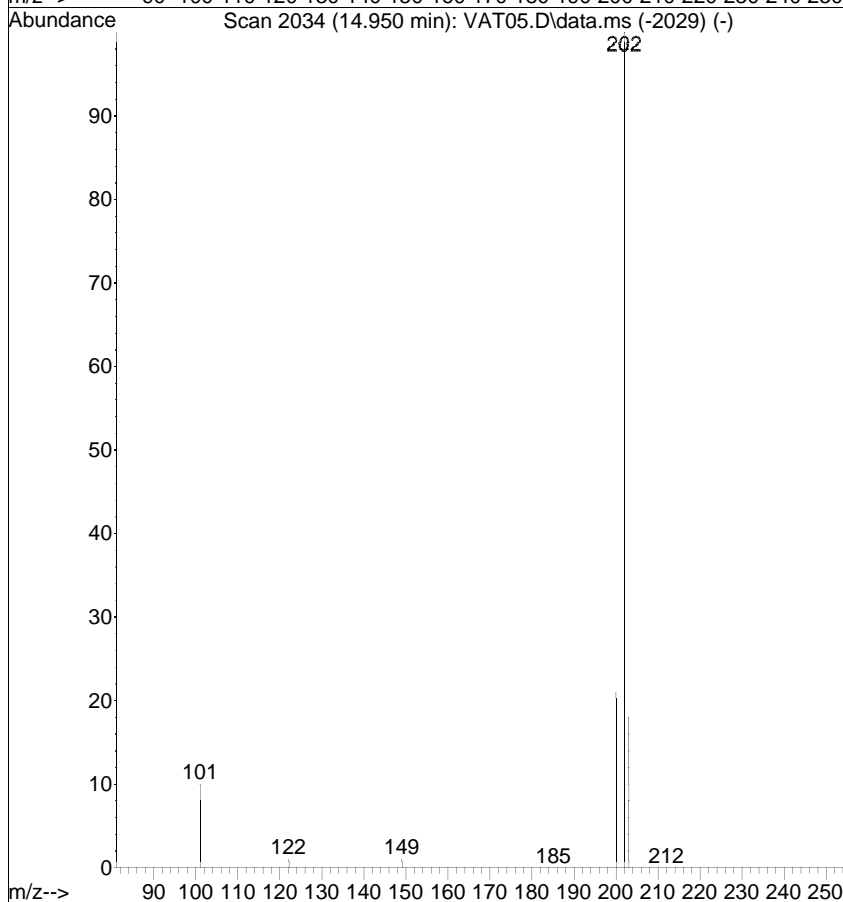


#17
 Fluoranthene
 Concen: 0.0043 ug/mL
 RT: 14.931 min Scan# 2031
 Delta R.T. -0.019 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

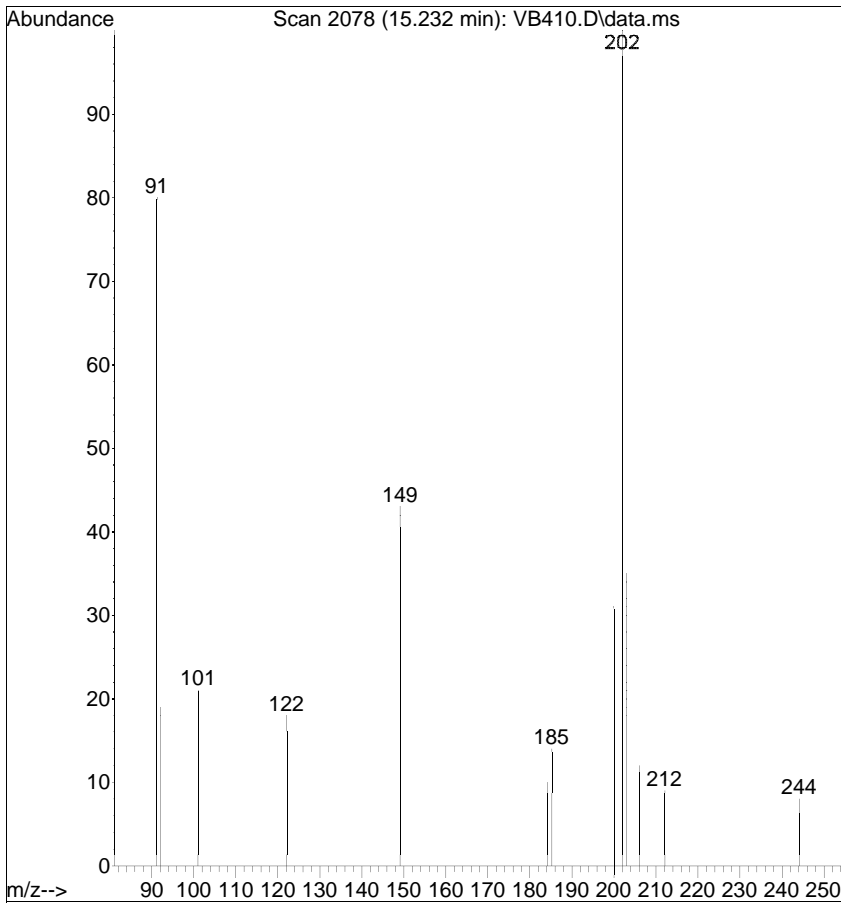
Tgt Ion	Ratio	Lower	Upper
202	100		
101	30.5	0.0	21.1#
203	40.8	0.0	37.0#



Ref

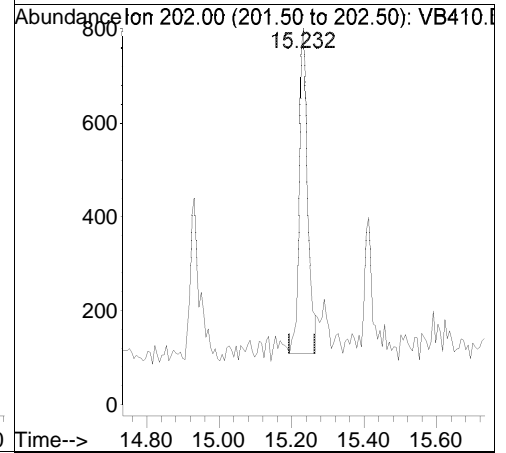


Raw

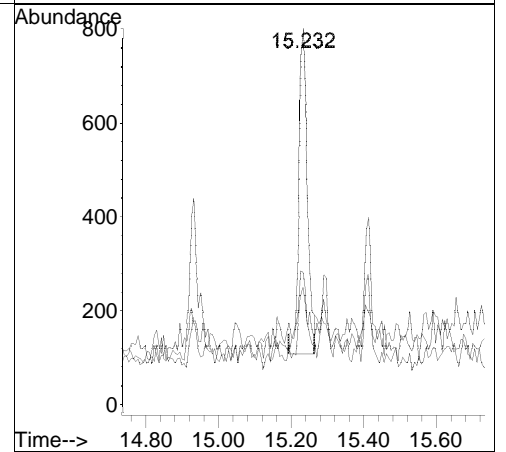
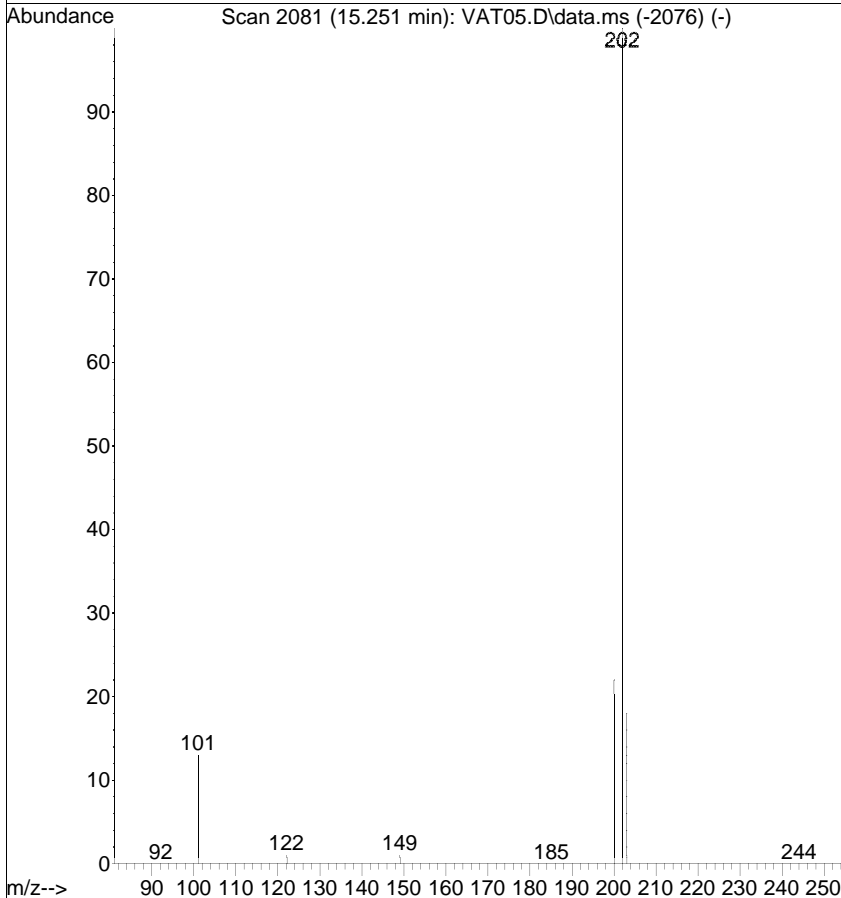


#19
 Pyrene
 Concen: 0.0115 ug/mL
 RT: 15.232 min Scan# 2078
 Delta R.T. -0.019 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

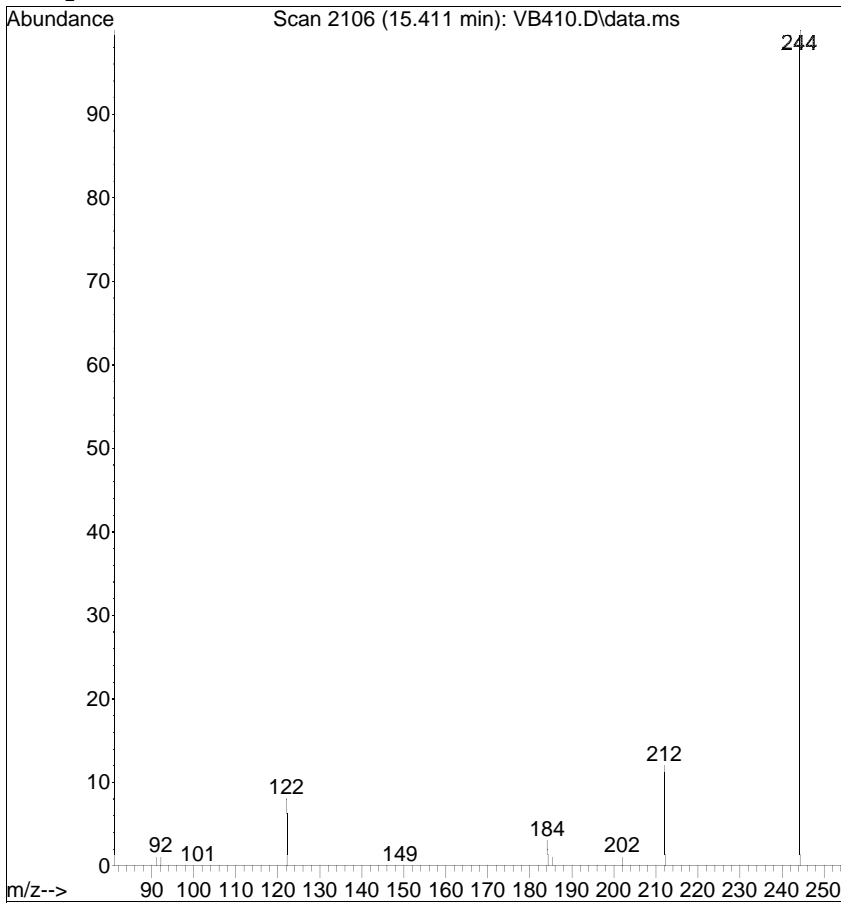
Tgt Ion	Ratio	Lower	Upper
202	100		
200	31.2	1.1	41.1
203	35.5	0.0	37.7



Ref

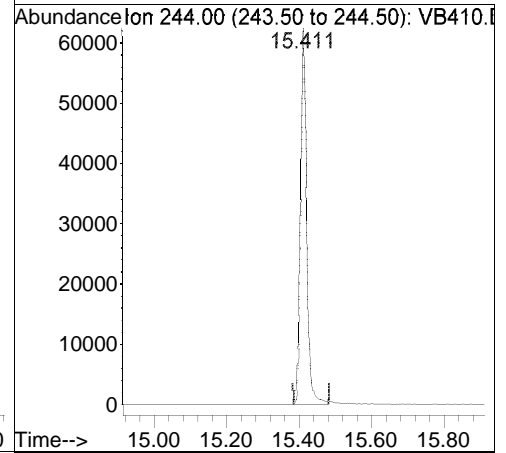


Raw

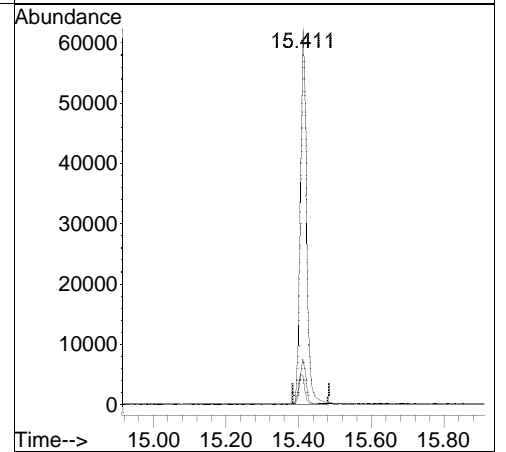
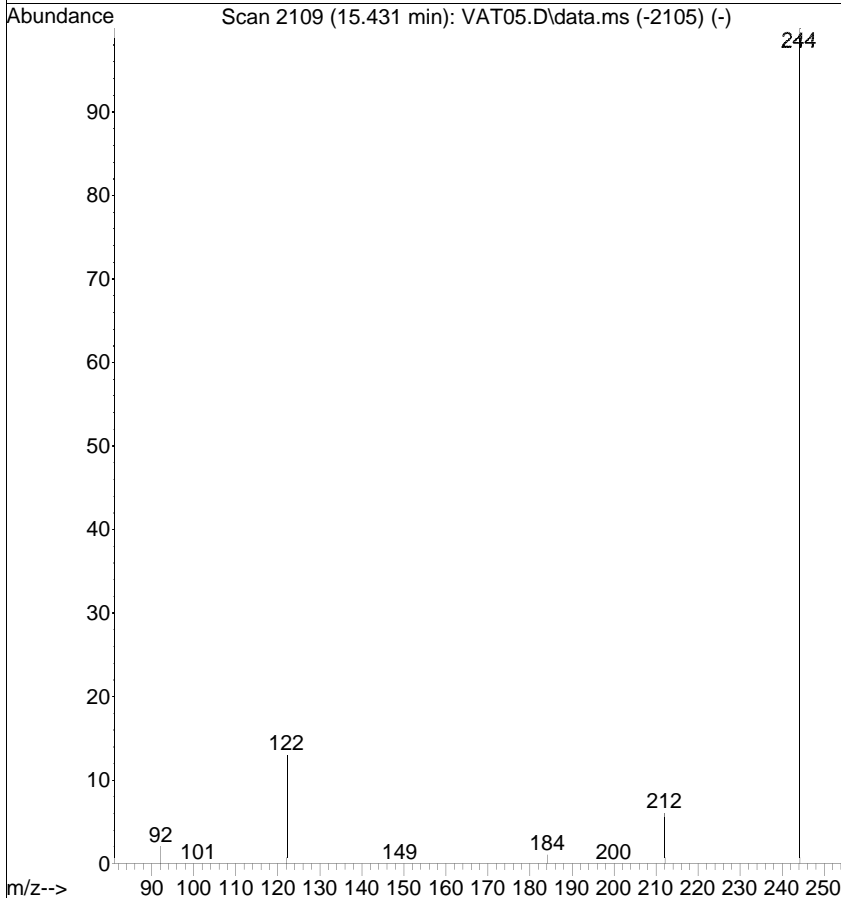


#20
 Terphenyl-d14
 Concen: 0.8522 ug/mL
 RT: 15.411 min Scan# 2106
 Delta R.T. -0.019 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

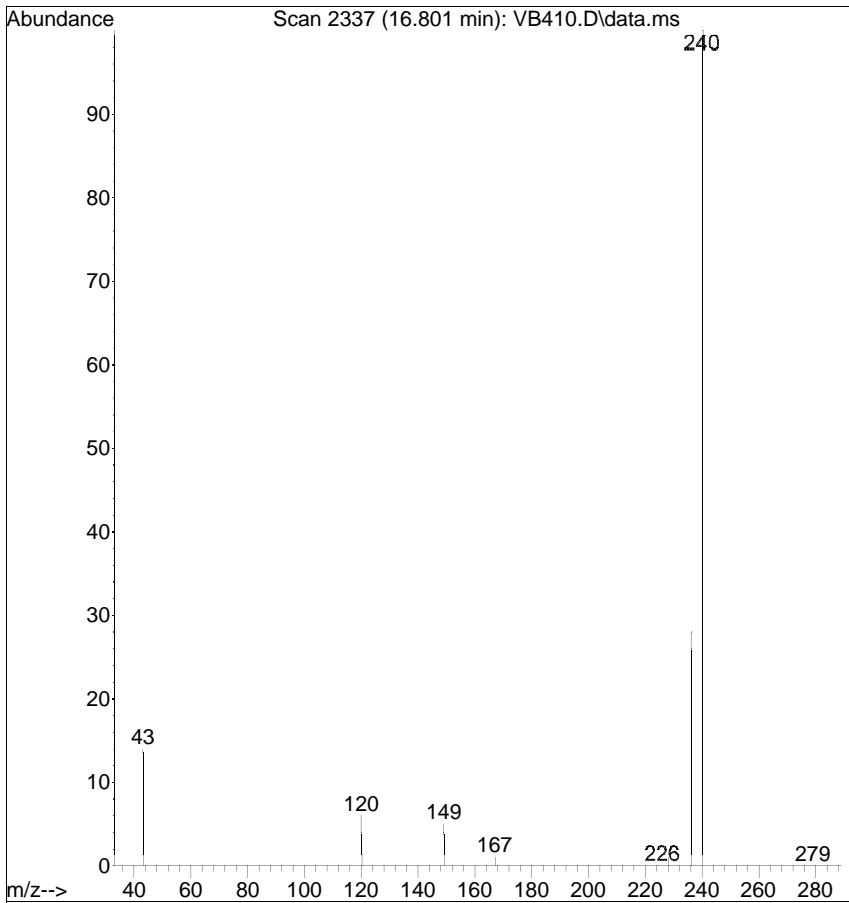
Tgt Ion	Ratio	Lower	Upper
244	100		
122	7.8	0.0	25.0
212	12.2	0.0	31.4



Ref

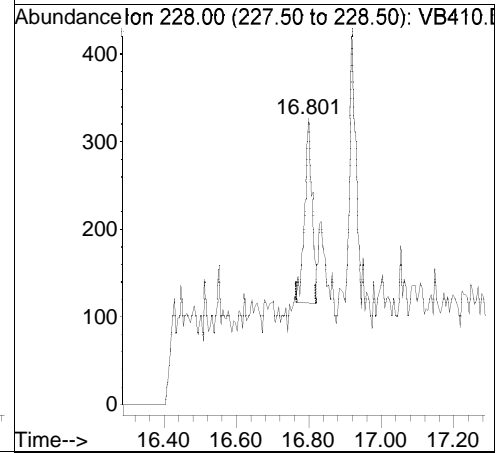


Raw

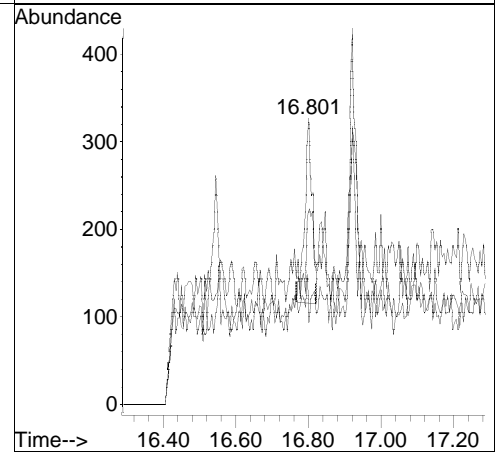
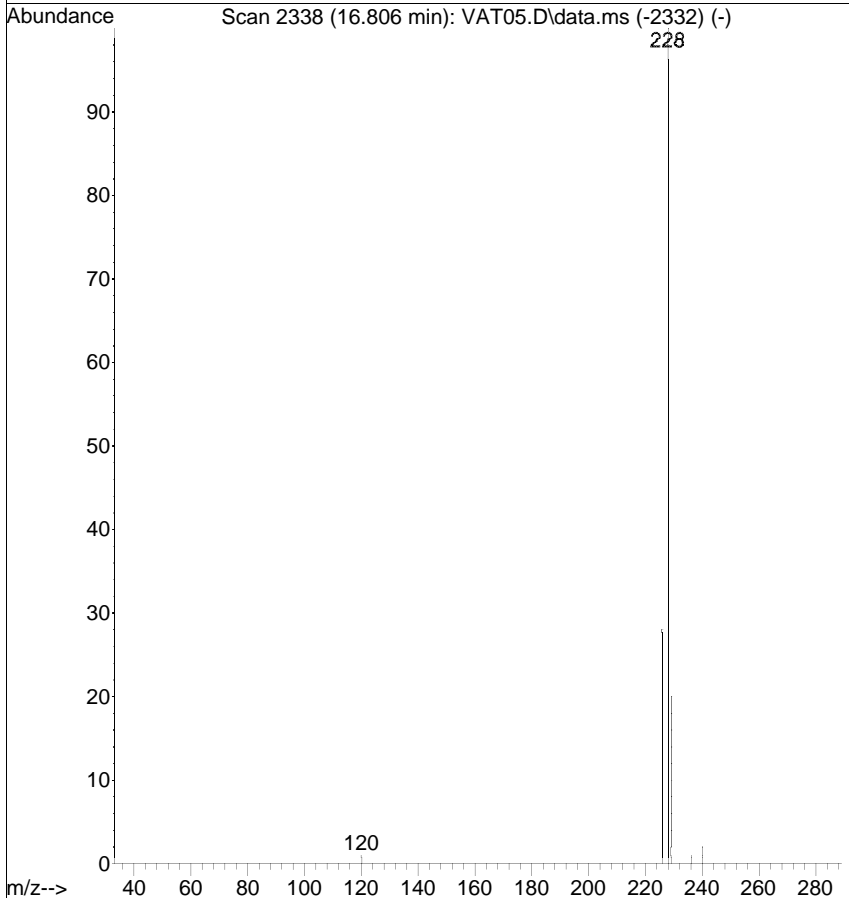


#21
 Benzo(a)anthracene
 Concen: 0.0034 ug/mL
 RT: 16.801 min Scan# 2337
 Delta R.T. -0.004 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

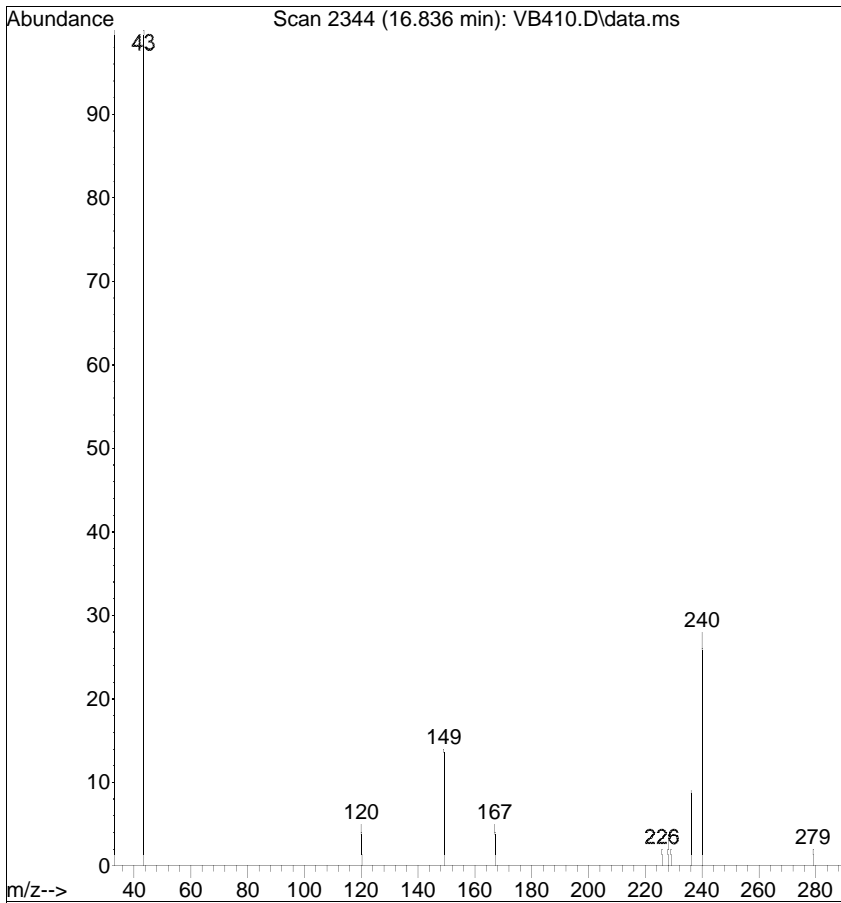
Tgt Ion	Ratio	Lower	Upper
228	100		
229	68.7	0.1	40.1#
226	28.5	9.3	49.3



Ref

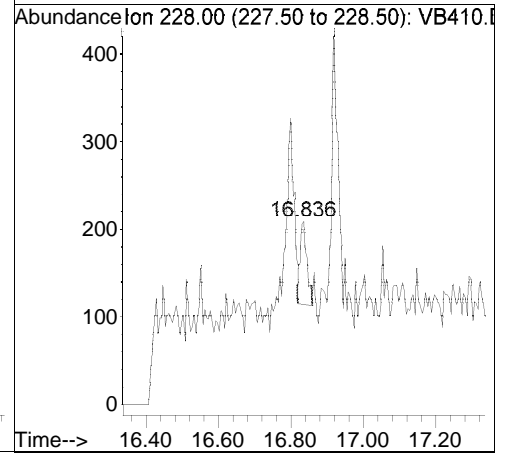


Raw

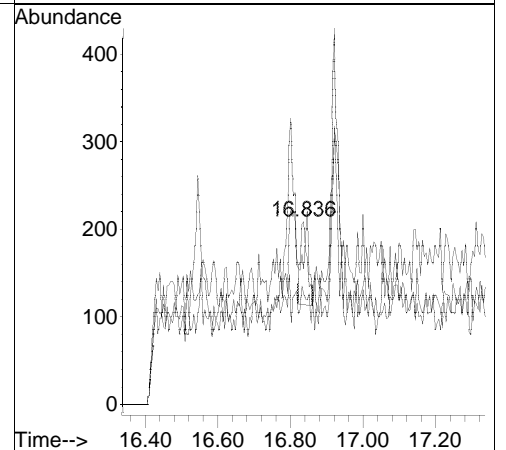
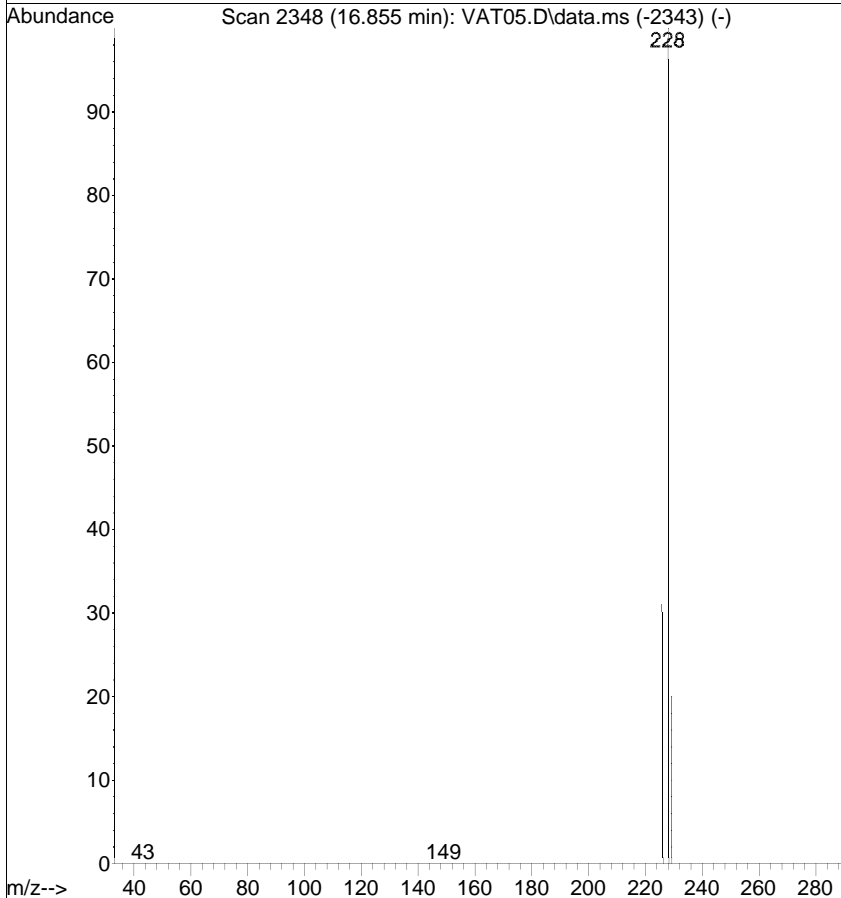


#22
 Chrysene
 Concen: 0.0014 ug/mL
 RT: 16.836 min Scan# 2344
 Delta R.T. -0.019 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

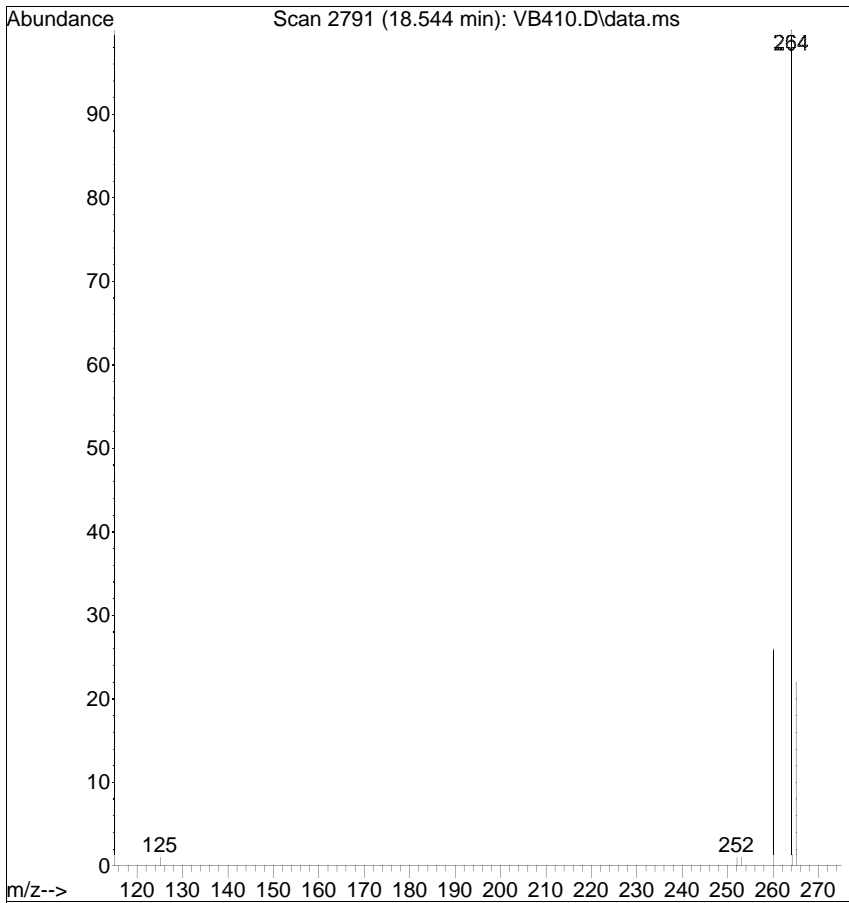
Tgt Ion	Ratio	Lower	Upper
228	100		
226	60.3	13.4	53.4#
229	74.2	0.8	40.8#



Ref

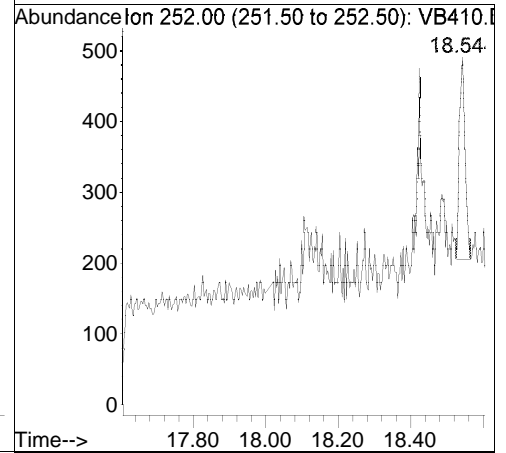


Raw

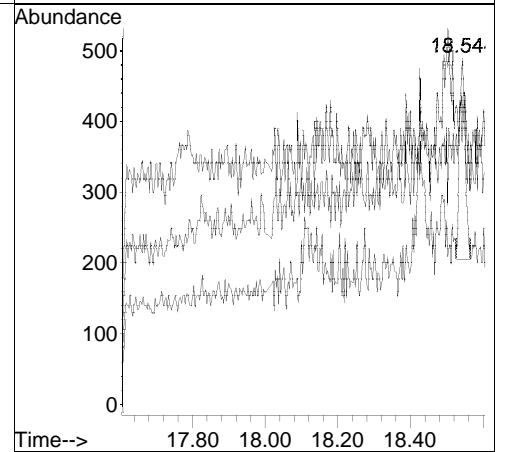
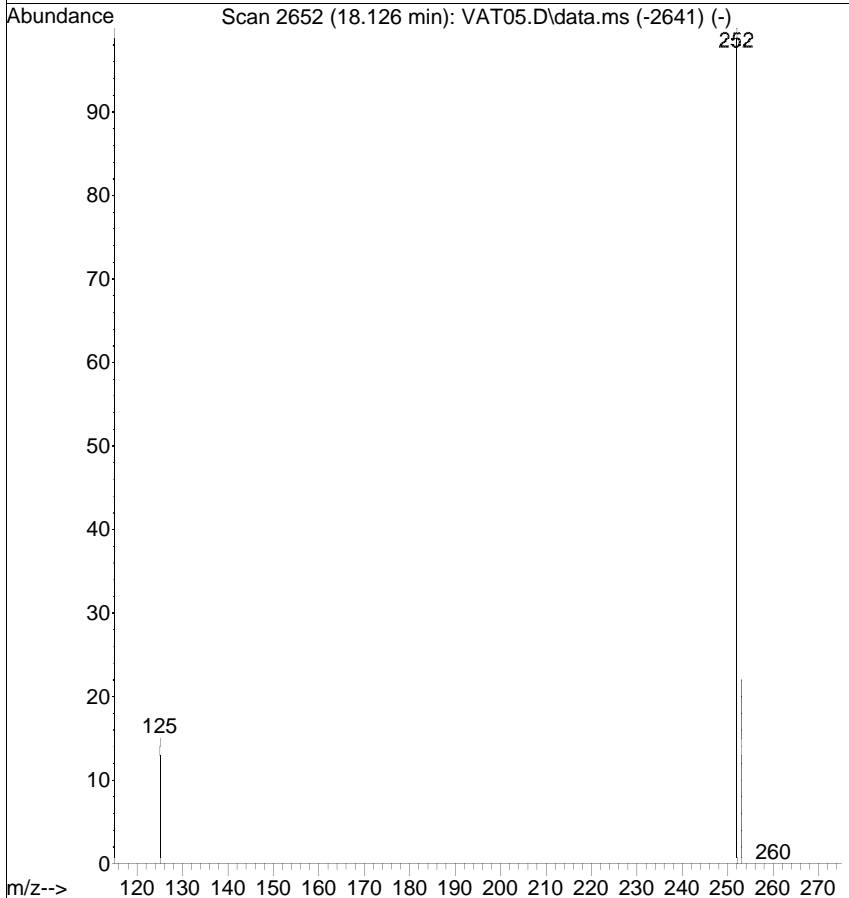


#24
 Benzo(b)fluoranthene
 Concen: 0.0031 ug/mL
 RT: 18.544 min Scan# 2791
 Delta R.T. 0.419 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

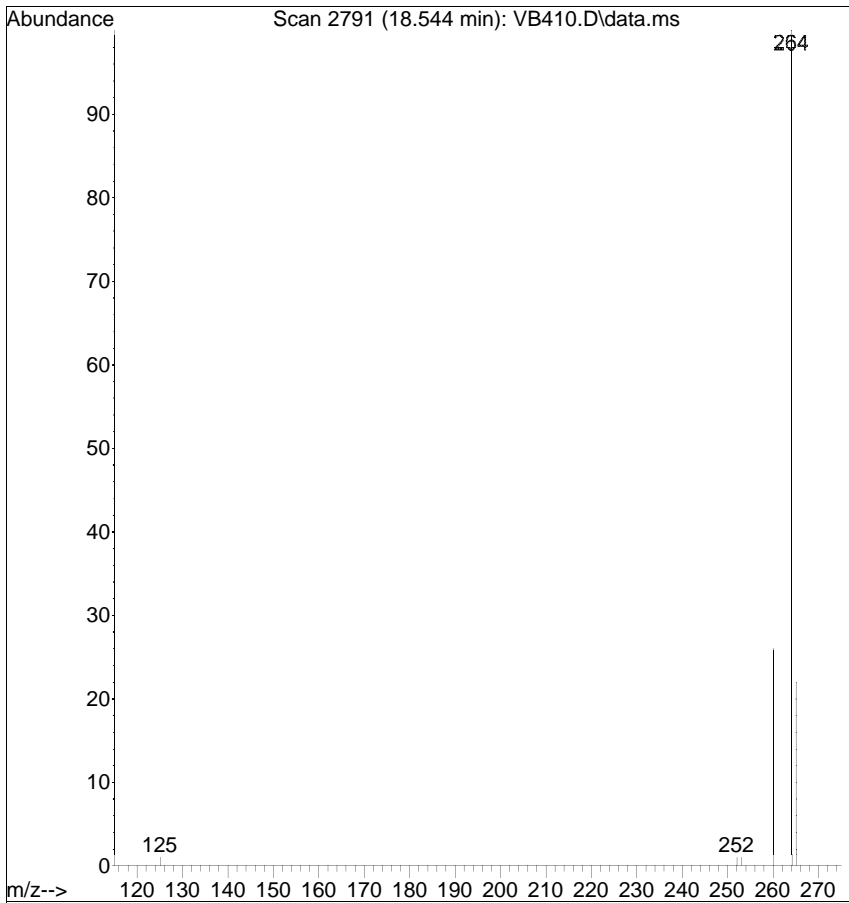
Tgt Ion	Ratio	Lower	Upper
252	100		
253	80.2	1.0	41.0#
125	80.0	0.0	20.9#



Ref

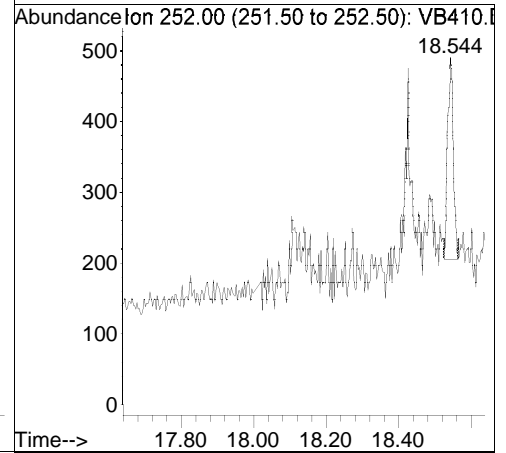


Raw

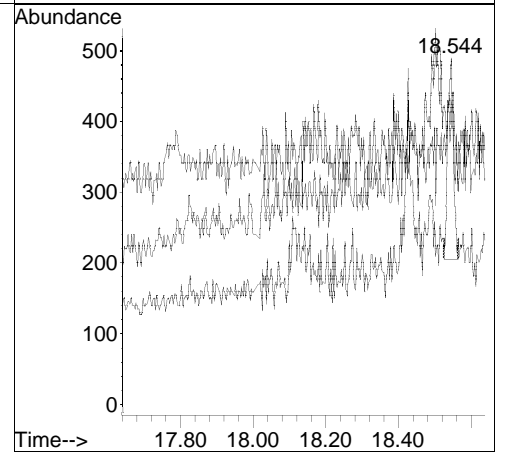
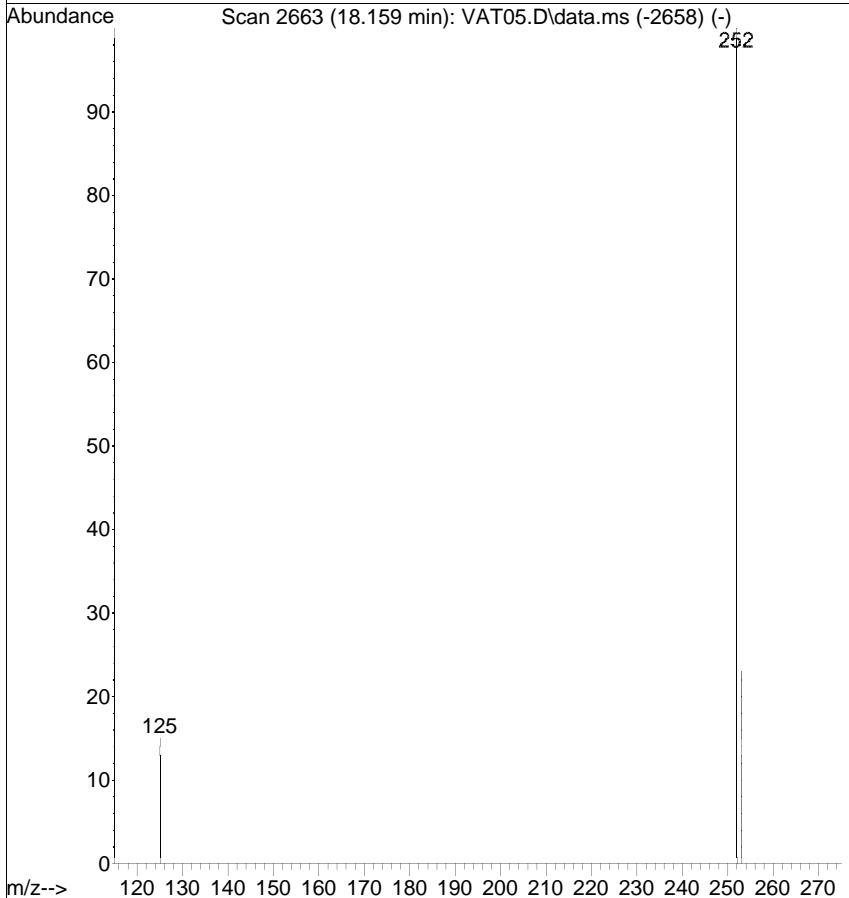


#25
 Benzo(k)fluoranthene
 Concen: 0.0033 ug/mL
 RT: 18.544 min Scan# 2791
 Delta R.T. 0.386 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

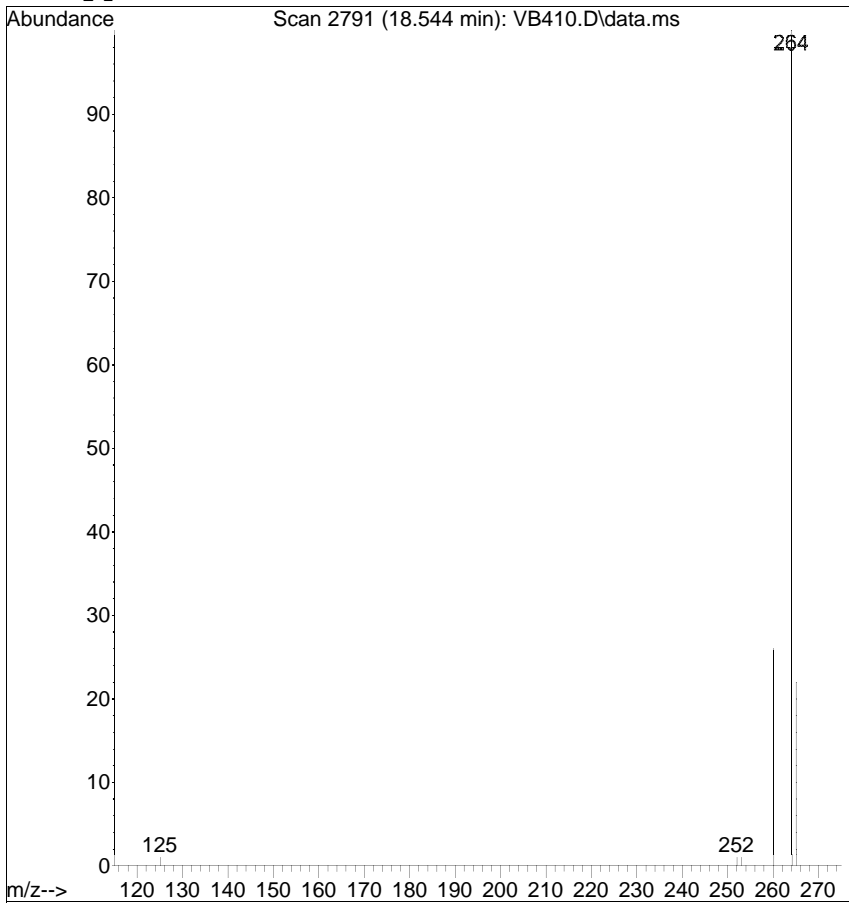
Tgt Ion	Ratio	Lower	Upper
252	100		
253	80.2	1.1	41.1#
125	80.0	0.0	21.1#



Ref

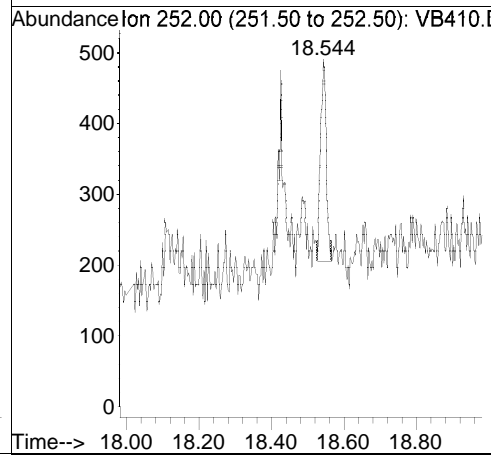


Raw

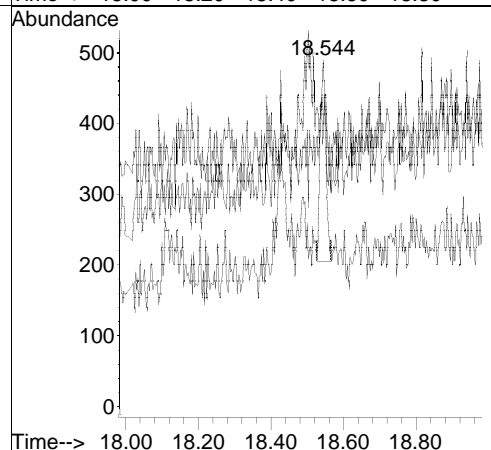
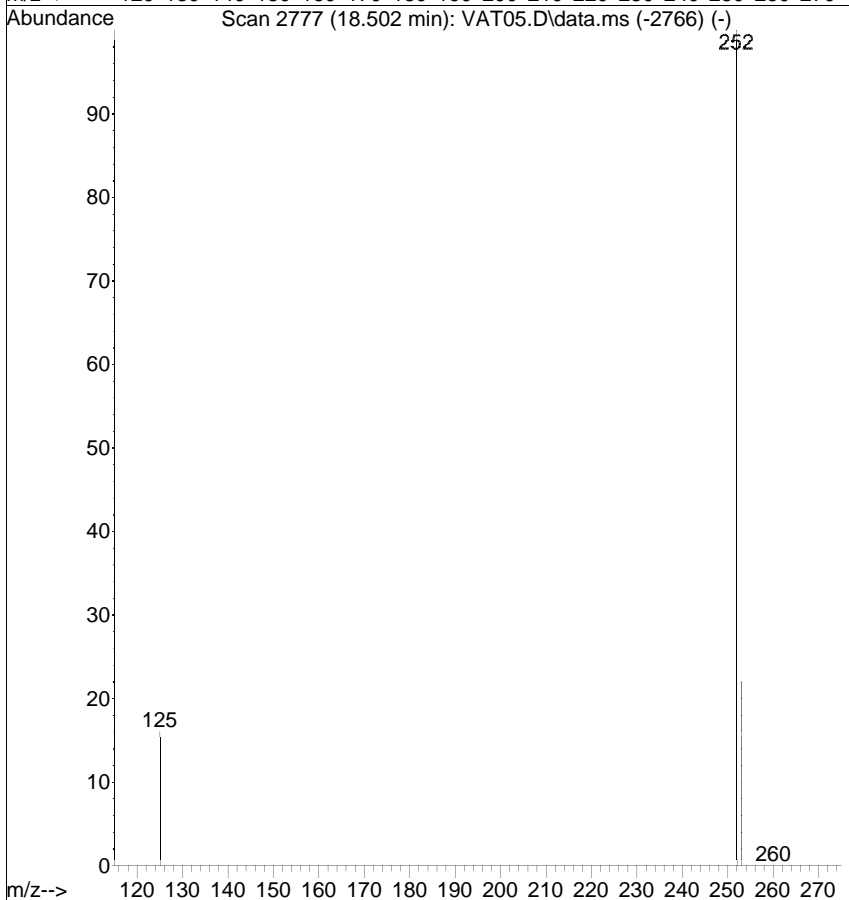


#26
 Benzo(a)pyrene
 Concen: 0.0037 ug/mL
 RT: 18.544 min Scan# 2791
 Delta R.T. 0.042 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

Tgt Ion	Ratio	Lower	Upper
252	100		
253	80.2	3.4	43.4#
125	80.0	0.0	20.9#

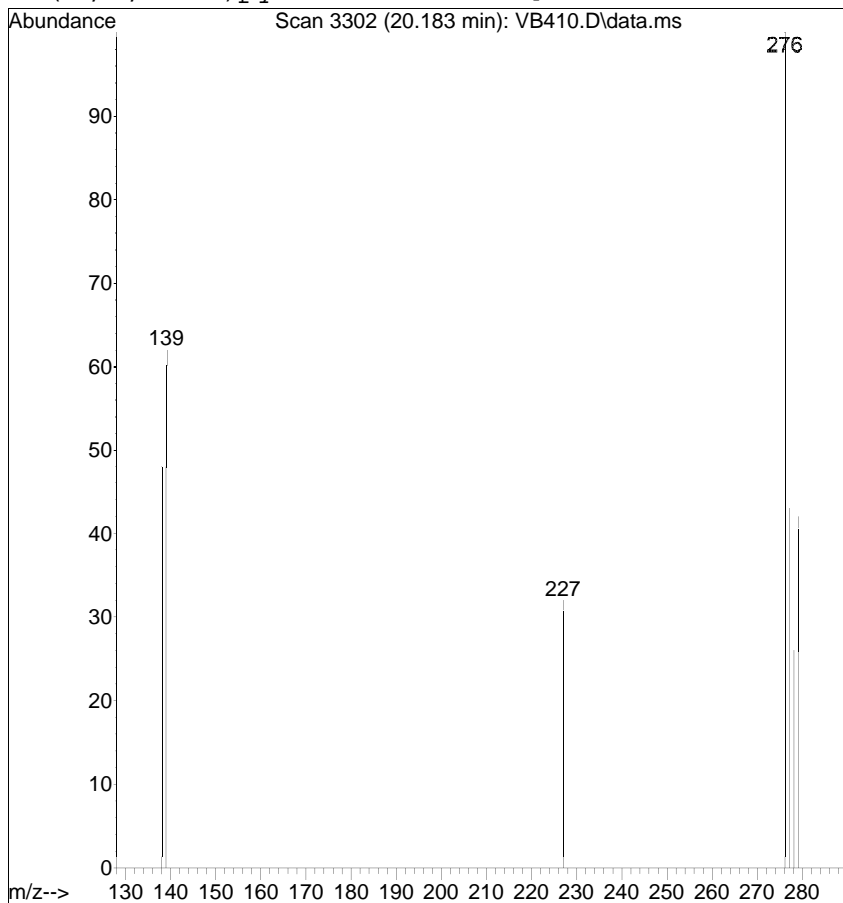


Ref



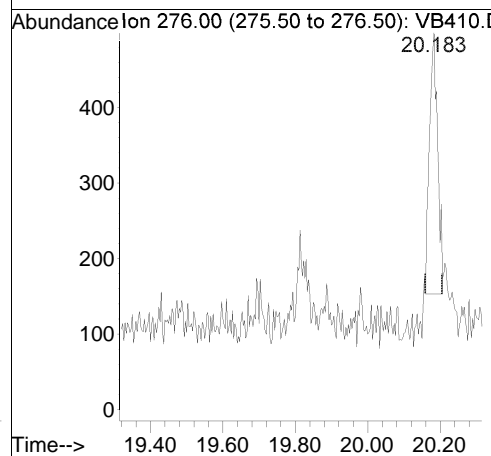
[Indeno(1,2,3-cd)pyrene; <RL; u]

Raw

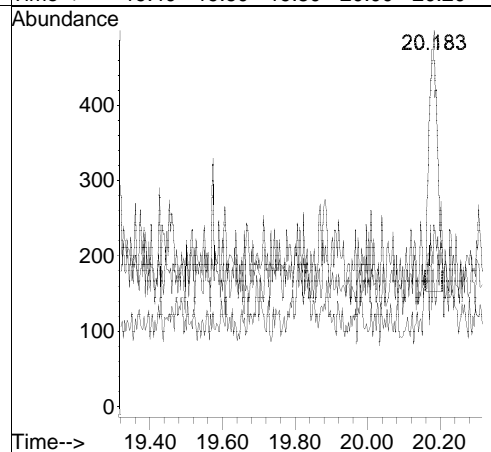
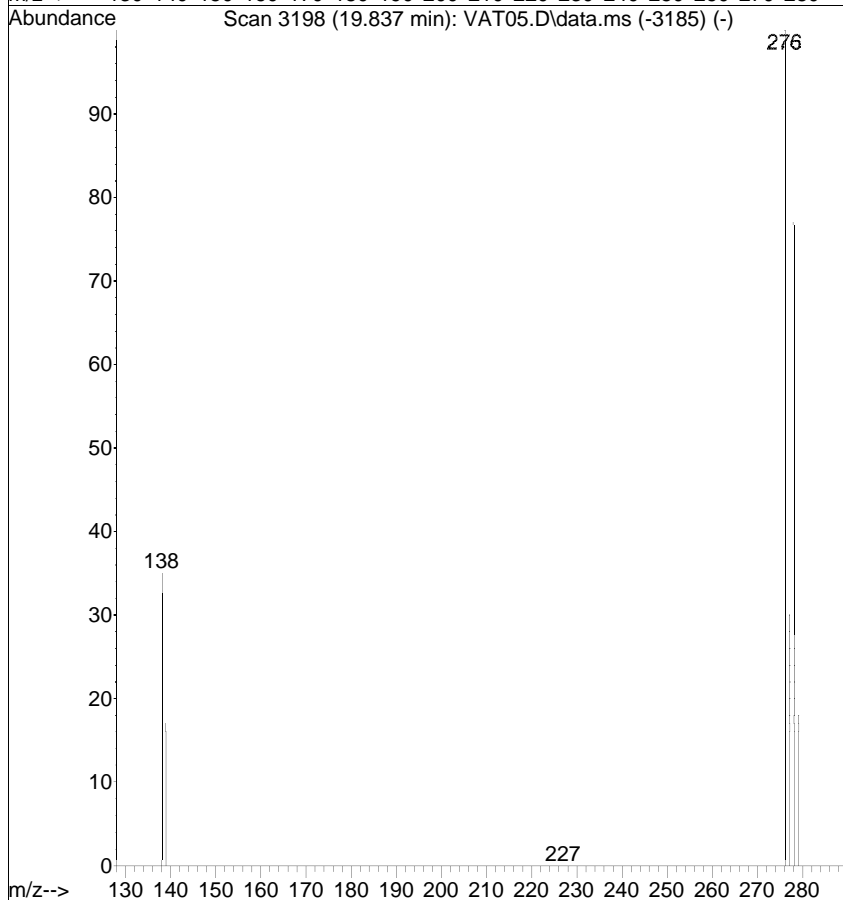


#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.0061 ug/mL
 RT: 20.183 min Scan# 3302
 Delta R.T. 0.345 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

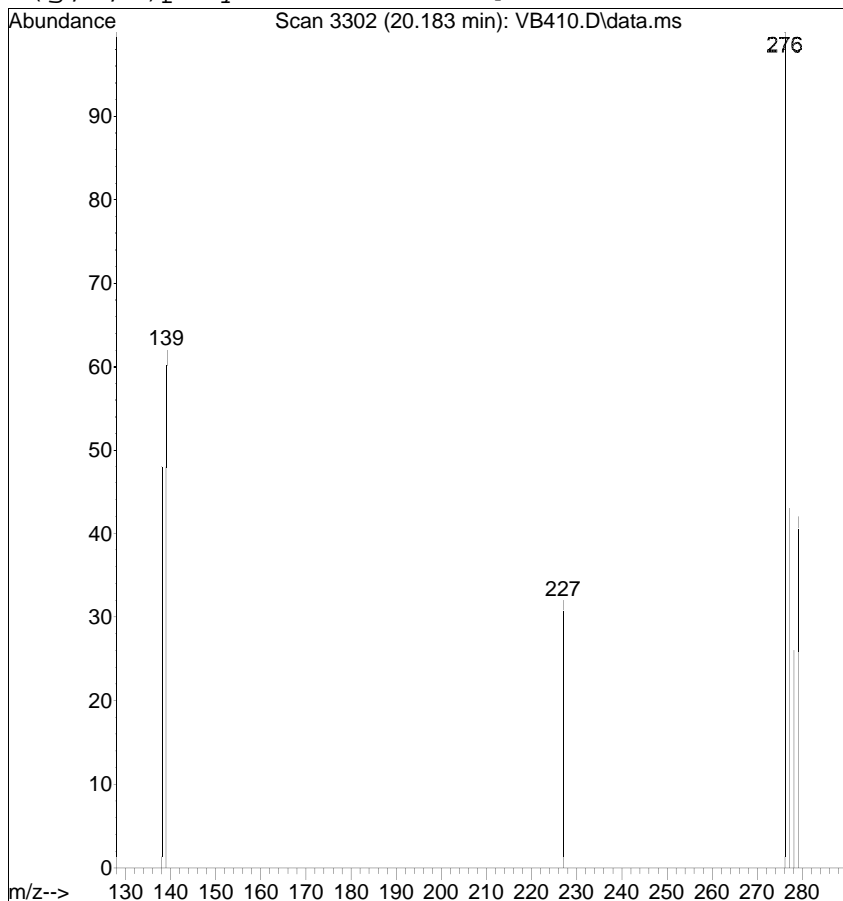
Tgt Ion	Resp	Lower	Upper
276	100		
138	48.3	0.0	23.1#
227	31.7	0.0	21.0#



Ref

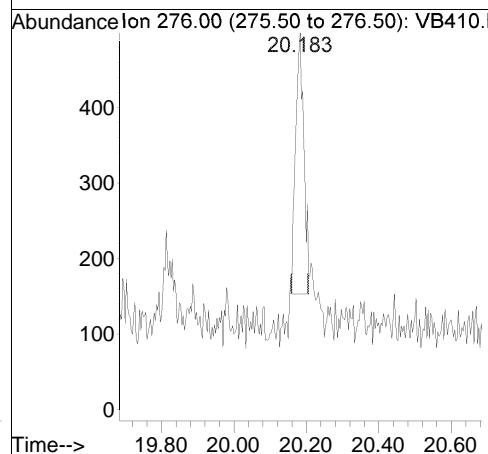


Raw

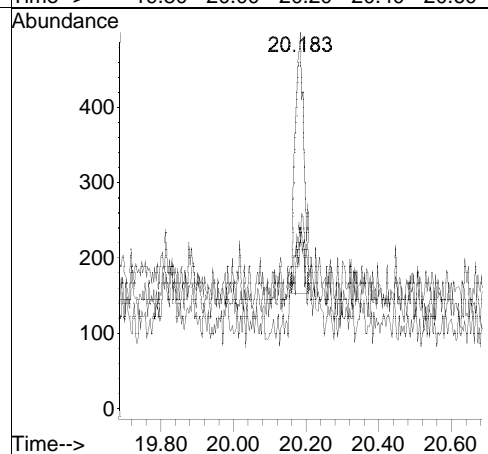
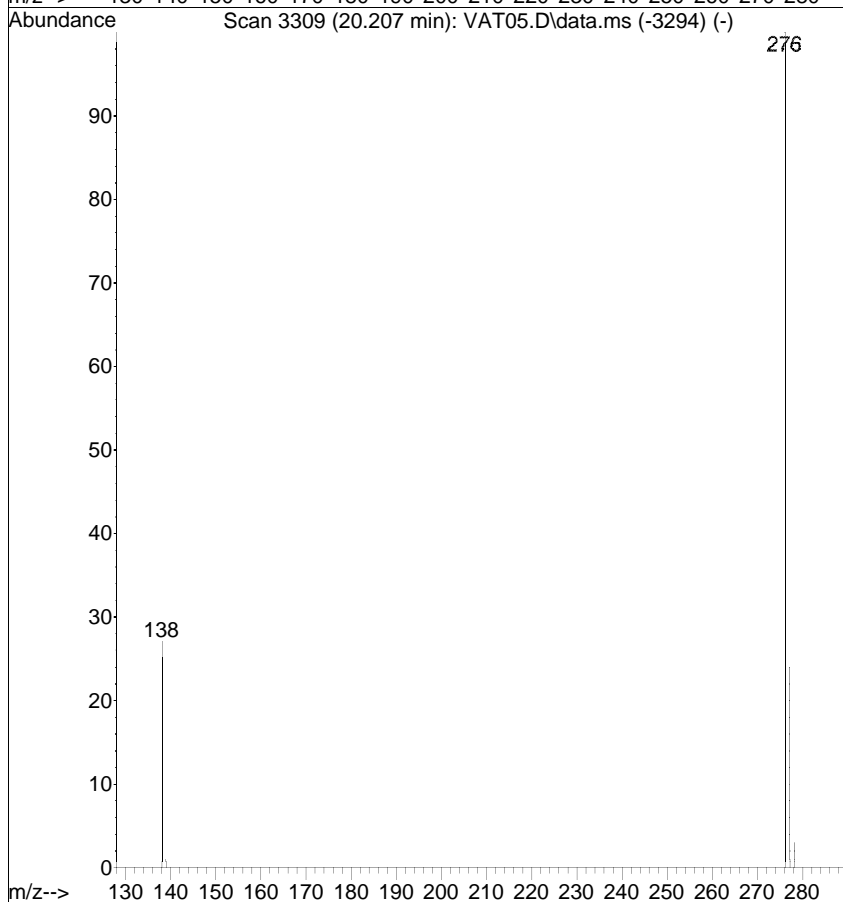


#29
 Benzo(g,h,i)perylene
 Concen: 0.0076 ug/mL
 RT: 20.183 min Scan# 3302
 Delta R.T. -0.024 min
 Lab File: VB410.D
 Acq: 4 Feb 2019 2:08 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	48.3	0.0	22.1#
277	43.1	2.5	42.5#



Ref



QC Raw Data

ENTHALPY BLANK USER REPORT FOR 306574 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Lab ID : QC962225
 Seqnum : 529033718019.3 Matrix : Water
 File : van19 Batch : 267157 Time : 23-JAN-2019 19:27
 Cal : 529010667001 Caldate : 07-JAN-2019
 IDF : 1.0 Raw Units : ug/mL Units : ug/L

1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	Raw	Result	RL	Flags
Naphthalene	0.006400	ND	0.1	u
Acenaphthylene	0.002400	ND	0.1	u
Acenaphthene	0.001700	ND	0.1	u
Fluorene	0.004100	ND	0.1	u
Phenanthrene	0.008100	ND	0.1	u
Anthracene	0.002600	ND	0.1	u
Fluoranthene	0.004100	ND	0.1	u
Pyrene	0.006900	ND	0.1	u
Benzo(a)anthracene	0.003900	ND	0.1	u
Chrysene	0.001600	ND	0.1	u
Benzo(b)fluoranthene	0.001800	ND	0.1	u
Benzo(k)fluoranthene	0.001900	ND	0.1	u
Benzo(a)pyrene	0.001900	ND	0.1	u
Indeno(1,2,3-cd)pyrene	0.001600	ND	0.1	u
Dibenz(a,h)anthracene	0.001500	ND	0.1	u
Benzo(g,h,i)perylene	0.005300	ND	0.1	u

Surrogate	Raw	Spiked	Result	%Rec	Limits	Flags
Nitrobenzene-d5	0.9060	1.000	0.9060	91	58-134	c+ u
2-Fluorobiphenyl	0.6648	1.000	0.6648	66	53-120	u
Terphenyl-d14	0.7658	1.000	0.7658	77	18-128	u

ISTD (CCV van03)	CCV Area	BLANK Area	%Drift	CCV RT	BLANK RT	Drift
Naphthalene-d8	83666	90975	8.74	9.07	9.06	-0.01
Acenaphthene-d10	46943	53979	14.99	11.38	11.38	0.00
Phenanthrene-d10	93369	107103	14.71	13.35	13.34	-0.01
Chrysene-d12	68125	82860	21.63	16.83	16.82	-0.01
Perylene-d12	63350	70503	11.29	18.57	18.57	0.00

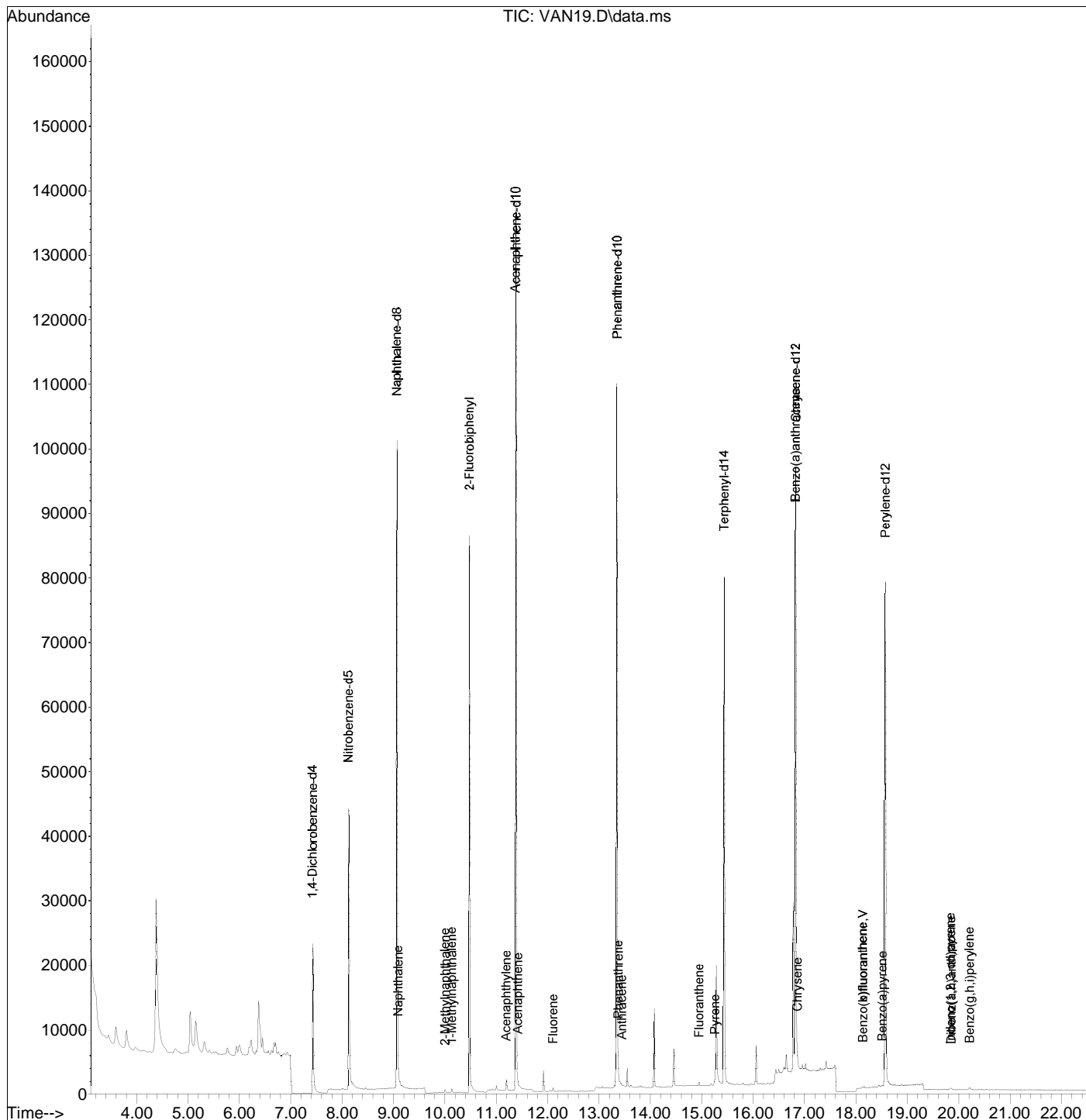
Analyst: ECI Date: 02/04/19 Reviewer: LW Date: 02/04/19

+ = high bias c = CCV u = use

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\012319\
 Data File : VAN19.D
 Acq On : 23 Jan 2019 7:27 pm
 Operator :
 Sample : mb,qc962225
 Misc : 267157,1,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 23 19:50:11 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Wed Jan 23 11:15:51 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\012319\
 Data File : VAN19.D
 Acq On : 23 Jan 2019 7:27 pm
 Operator :
 Sample : mb,qc962225
 Misc : 267157,1,
 ALS Vial : 19 Sample Multiplier: 1

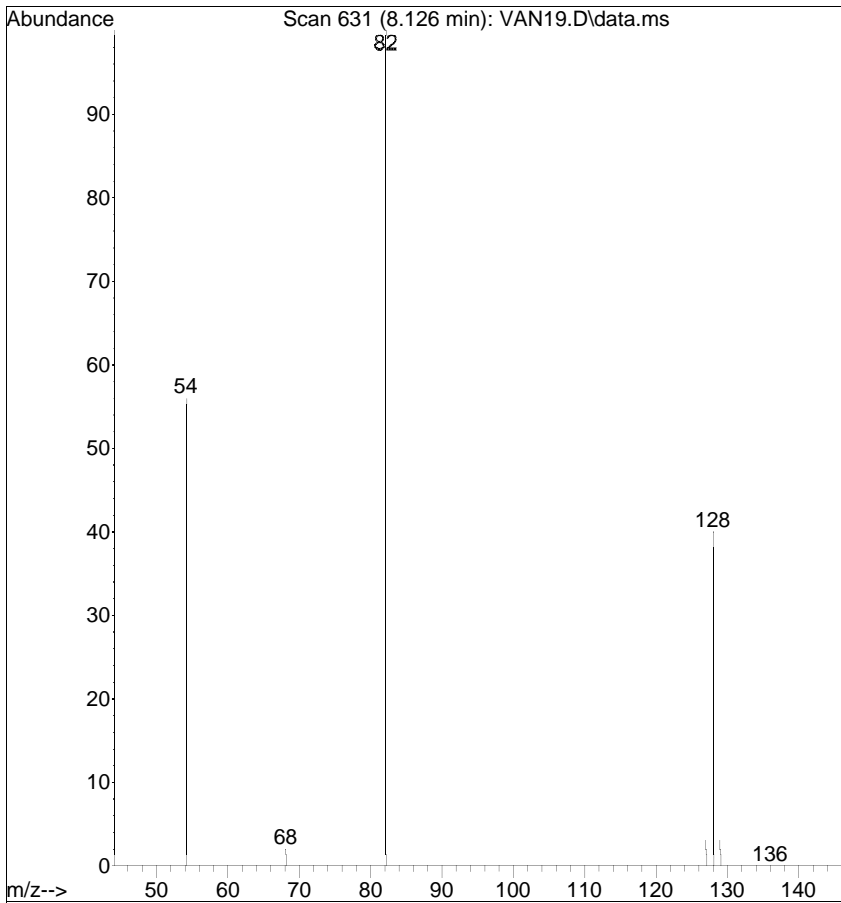
Quant Time: Jan 23 19:50:11 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Wed Jan 23 11:15:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.429	152	22533	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.063	136	90975	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.378	164	53979	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.342	188	107103	1.0000	ug/mL	0.00
18) Chrysene-d12	16.821	240	82860	1.0000	ug/mL	0.00
23) Perylene-d12	18.566	264	70503	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Rel.RT	Qvalue
2) 1,4-Dioxane	0.000	88	0	N.D.			
4) Nitrobenzene-d5	8.126	82	27694	0.9060	ug/mL	# 78	
5) Naphthalene	9.091	128	561	0.0064	ug/mL	74	
6) 2-Methylnaphthalene	10.000	142	299	0.0043	ug/mL	92	
7) 1-Methylnaphthalene	10.132	142	469	0.0078	ug/mL	95	
9) 2-Fluorobiphenyl	10.473	172	64770	0.6648	ug/mL	90	
10) Acenaphthylene	11.191	152	226	0.0024	ug/mL	# 35	
11) Acenaphthene	11.418	154	104	0.0017	ug/mL	# 90	
12) Fluorene	12.103	166	306	0.0041	ug/mL	85	
14) _Pentachlorophenol	0.000	266	0	N.D.			
15) Phenanthrene	13.371	178	838	0.0081	ug/mL	83	
16) Anthracene	13.442	178	252	0.0026	ug/mL	# 49	
17) Fluoranthene	14.944	202	510	0.0041	ug/mL	# 64	
19) Pyrene	15.252	202	755	0.0069	ug/mL	82	
20) Terphenyl-d14	15.431	244	70903	0.7658	ug/mL	85	
21) Benzo(a)anthracene	16.816	228	398	0.0039	ug/mL	# 79	
22) Chrysene	16.855	228	156	0.0016	ug/mL	# 71	
24) Benzo(b)fluoranthene	18.132	252	166	0.0018	ug/mL	# 1	
25) Benzo(k)fluoranthene	18.132	252	166	0.0019	ug/mL	# 1	
26) Benzo(a)pyrene	18.506	252	151	0.0019	ug/mL	# 1	
27) Indeno(1,2,3-cd)pyrene	19.836	276	133	0.0016	ug/mL	# 1	
28) Dibenz(a,h)anthracene	19.849	278	105	0.0015	ug/mL	# 1	
29) Benzo(g,h,i)perylene	20.209	276	362	0.0053	ug/mL	# 28	

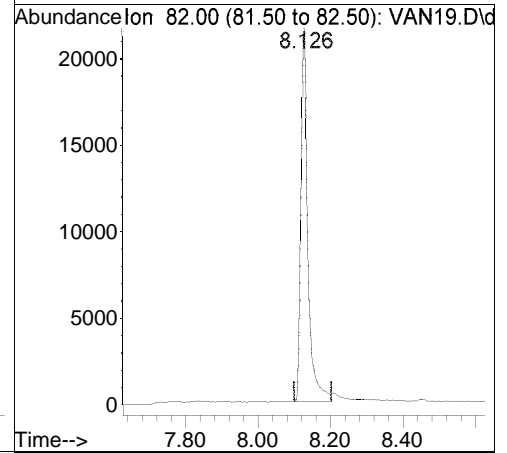
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

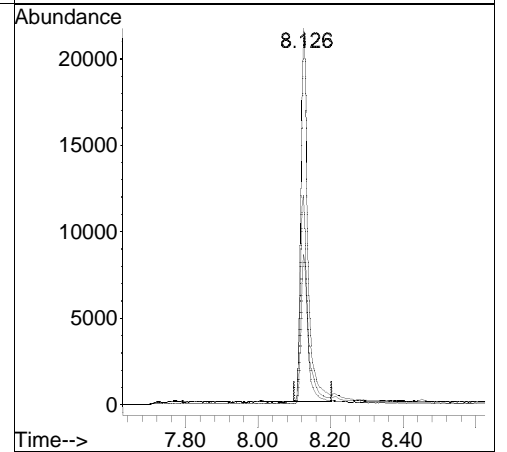
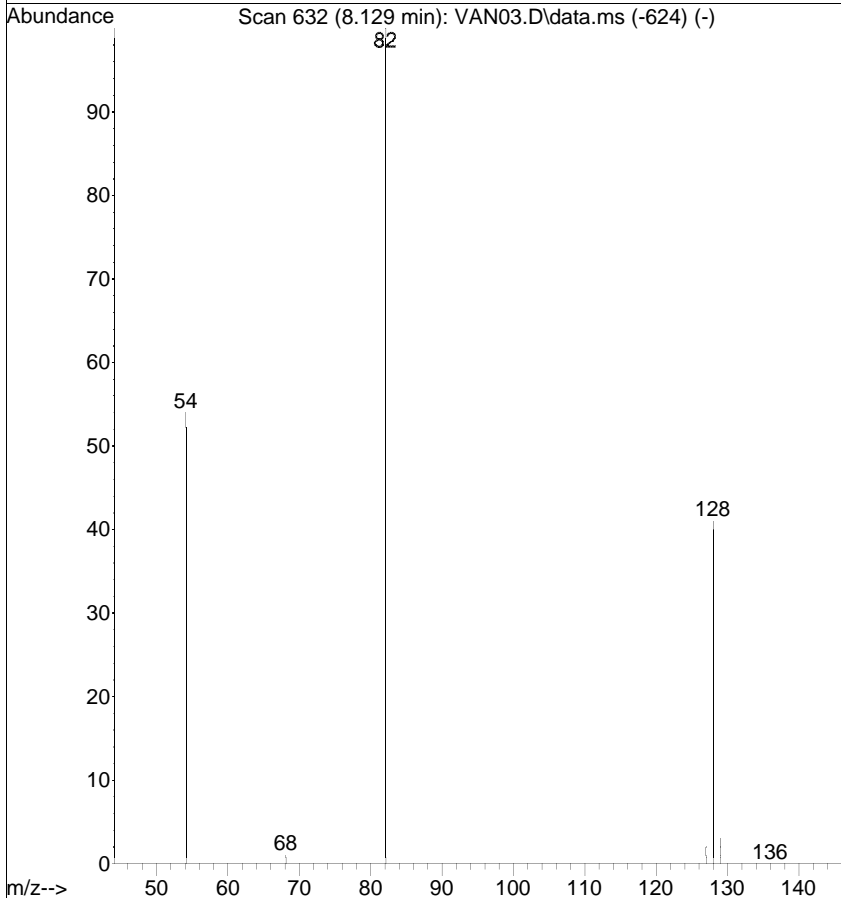


#4
 Nitrobenzene-d5
 Concen: 0.9060 ug/mL
 RT: 8.126 min Scan# 631
 Delta R.T. -0.002 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

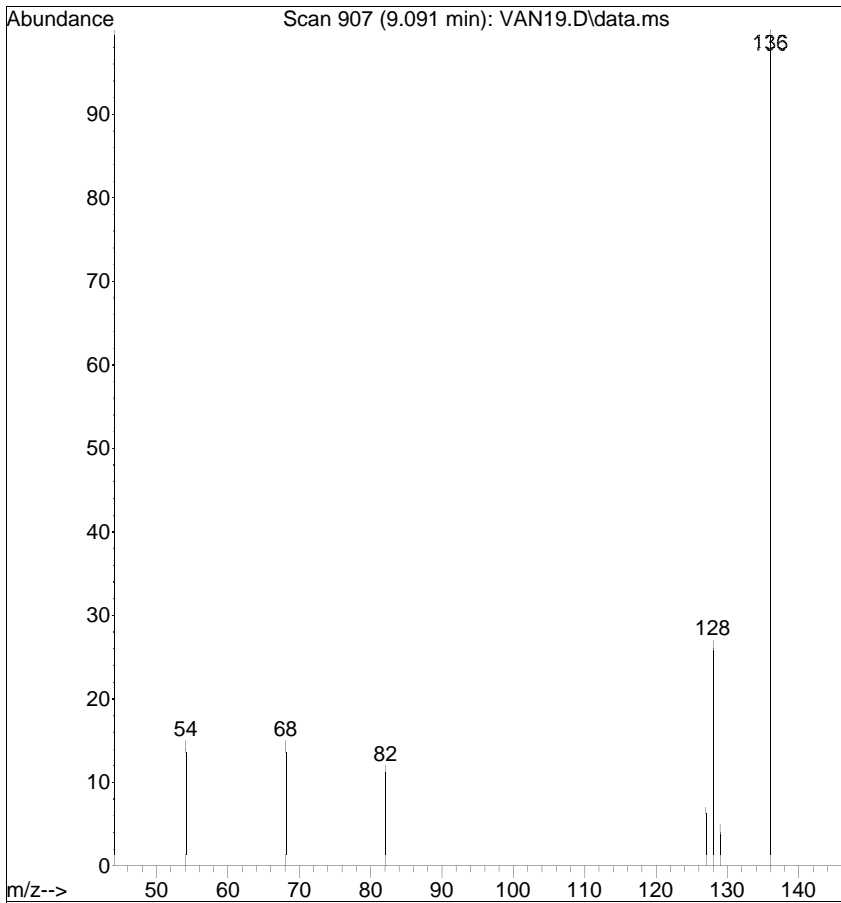
Tgt Ion	Resp	Lower	Upper
82	27694		
128	40.1	10.5	50.5
54	55.7	56.2	96.2#



Ref

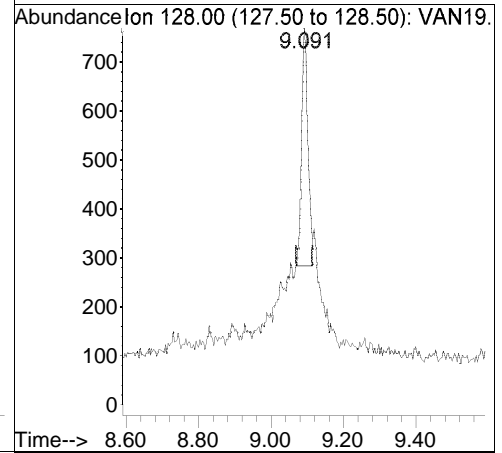


Raw

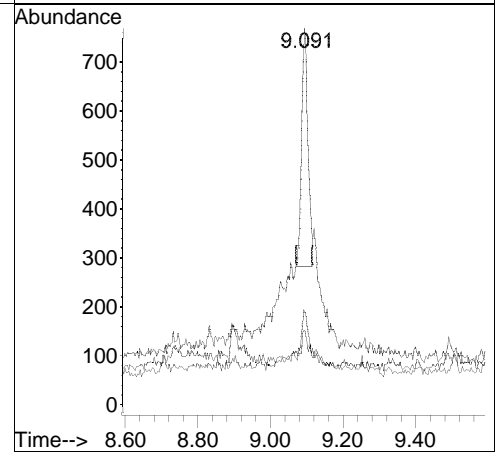
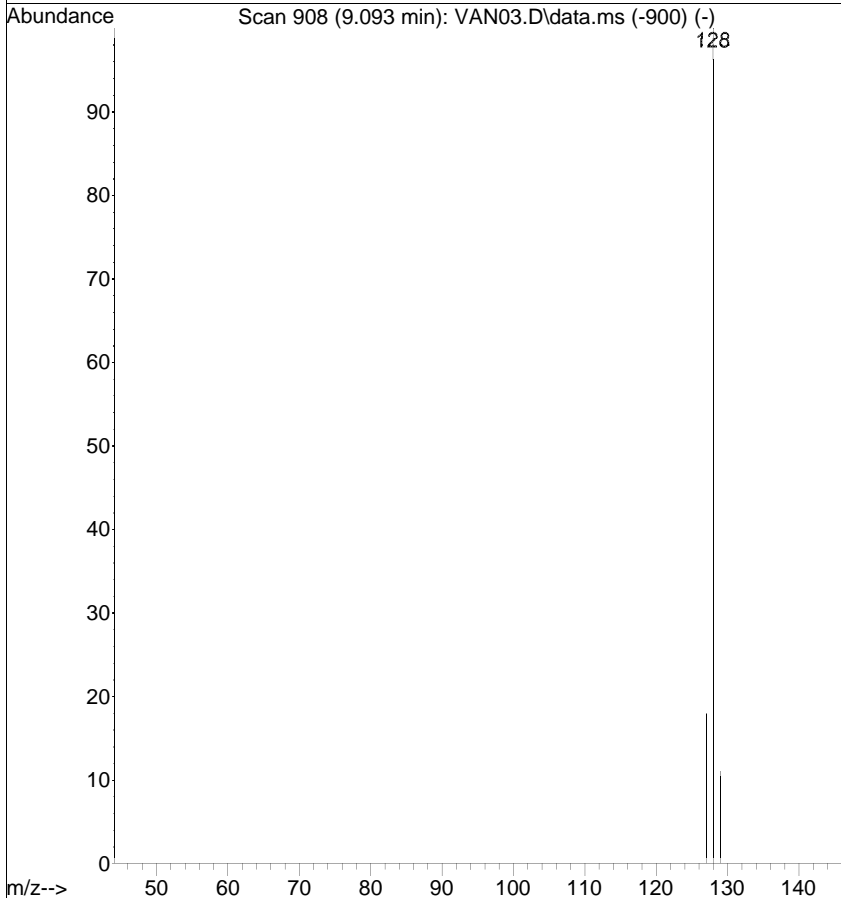


#5
 Naphthalene
 Concen: 0.0064 ug/mL
 RT: 9.091 min Scan# 907
 Delta R.T. -0.002 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

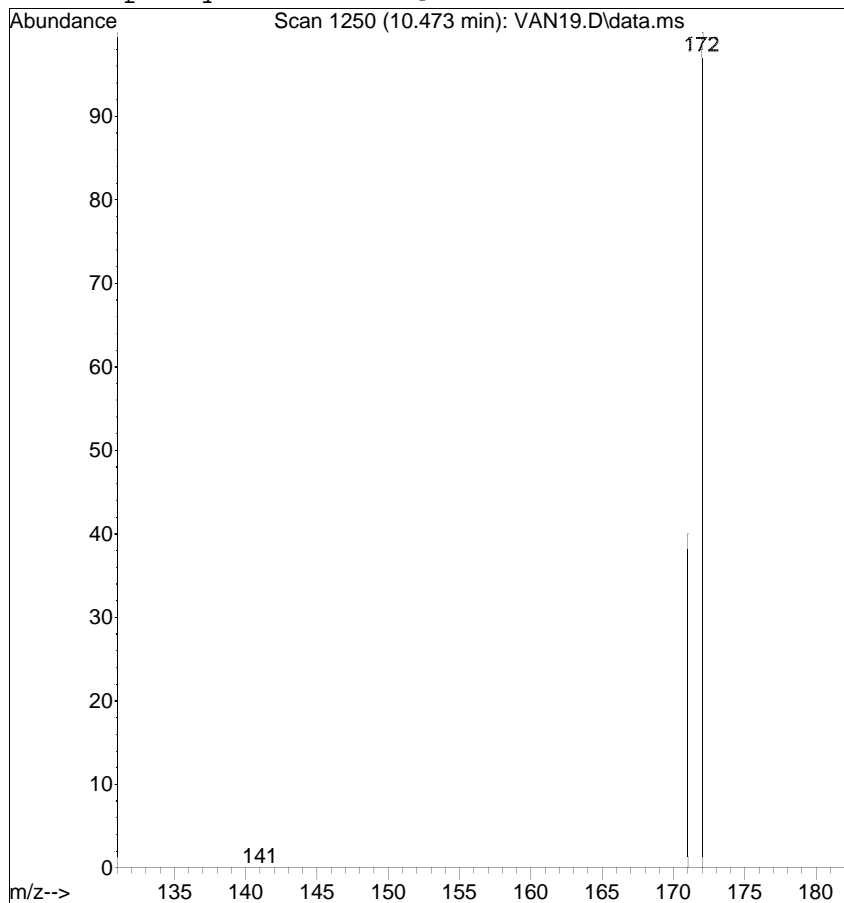
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	561		
129	19.8		0.0	31.1
127	25.4		0.0	34.0



Ref

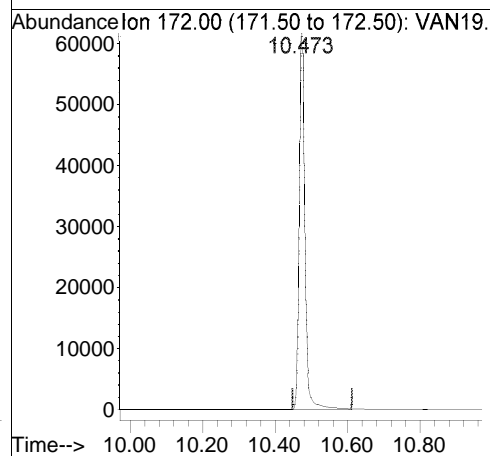


Raw

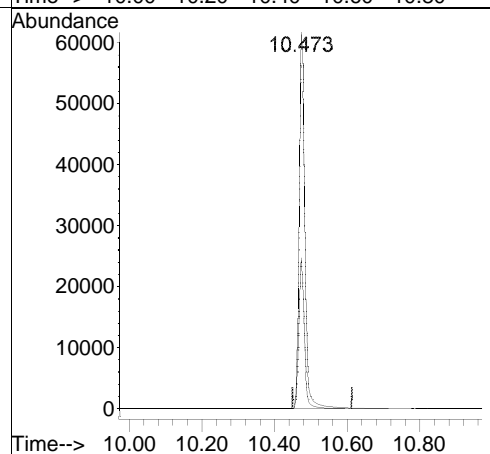
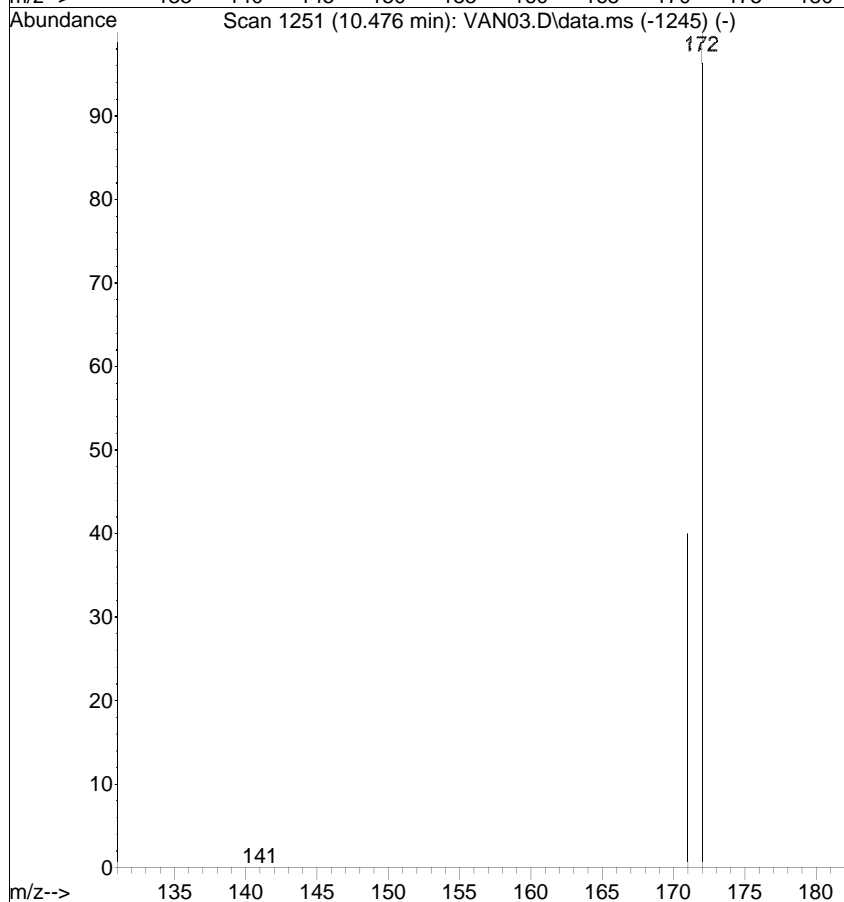


#9
 2-Fluorobiphenyl
 Concen: 0.6648 ug/mL
 RT: 10.473 min Scan# 1250
 Delta R.T. -0.003 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

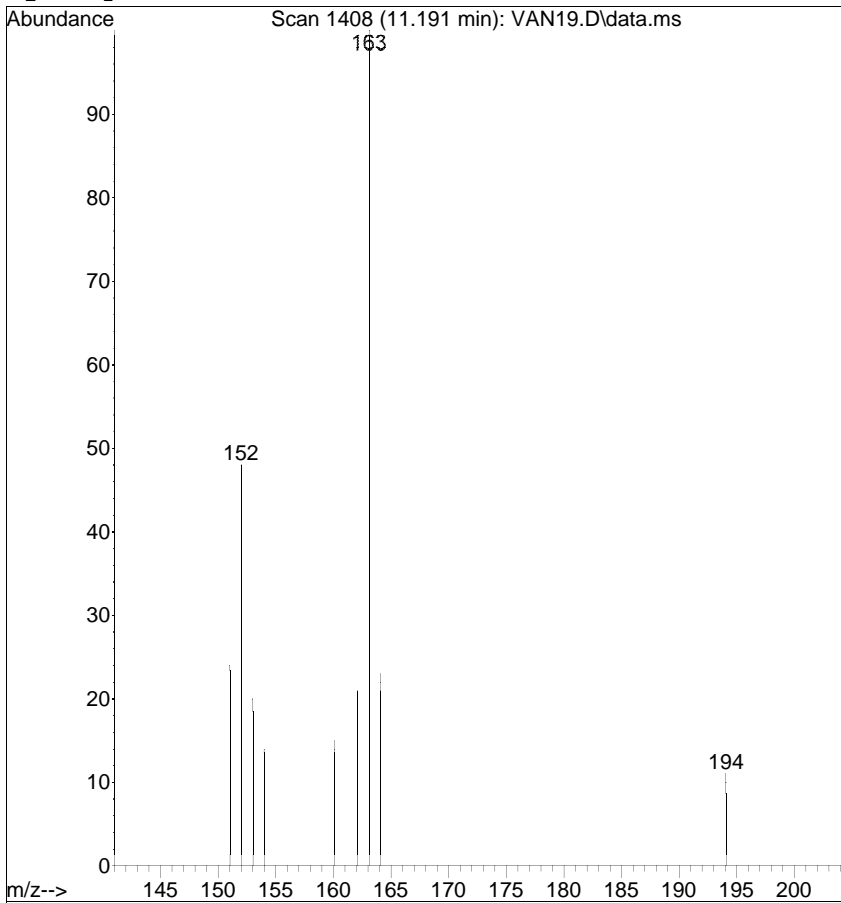
Tgt Ion	Resp	Lower	Upper
172	64770	100	100
171	40.2	14.4	54.4



Ref

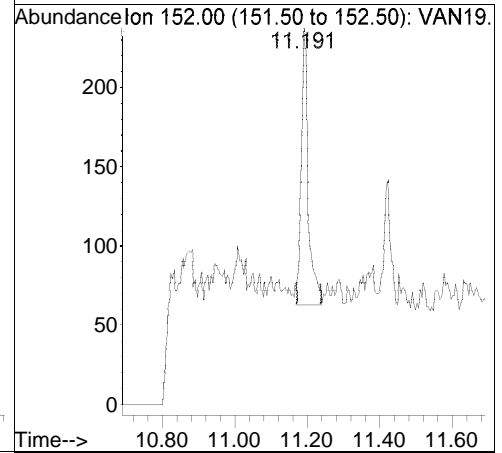


Raw

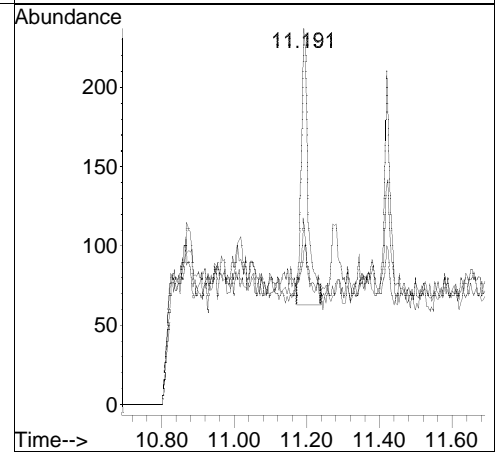
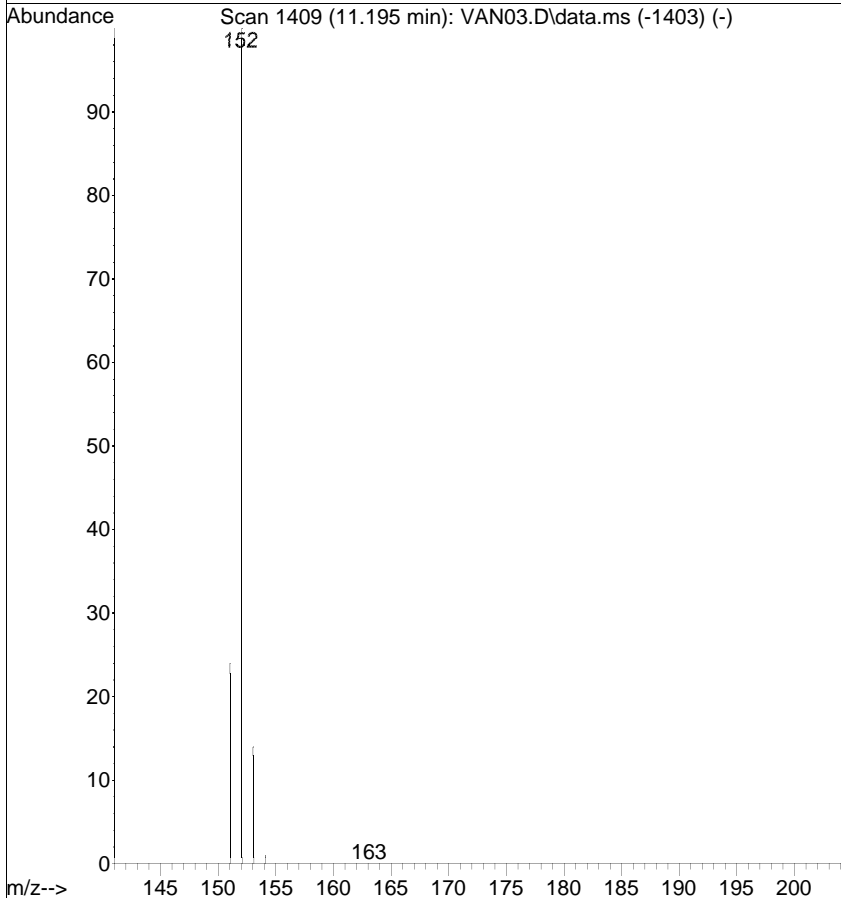


#10
 Acenaphthylene
 Concen: 0.0024 ug/mL
 RT: 11.191 min Scan# 1408
 Delta R.T. -0.005 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

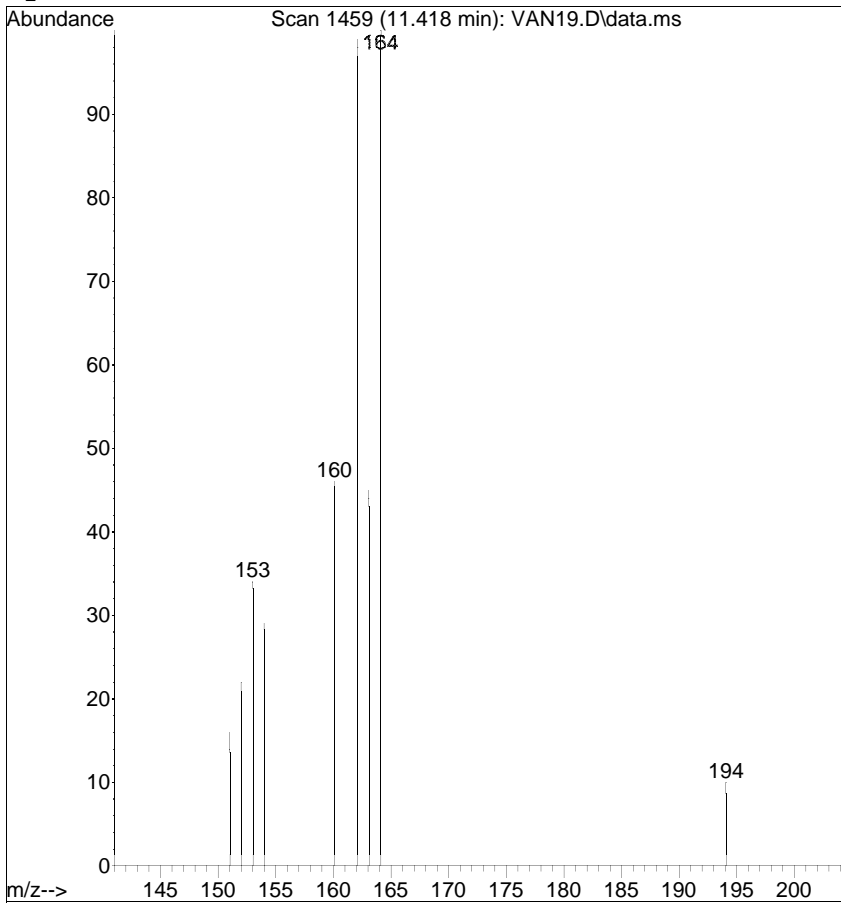
Tgt Ion	Ratio	Lower	Upper
152	100		
151	49.8	1.0	41.0#
153	40.9	0.0	33.1#



Ref

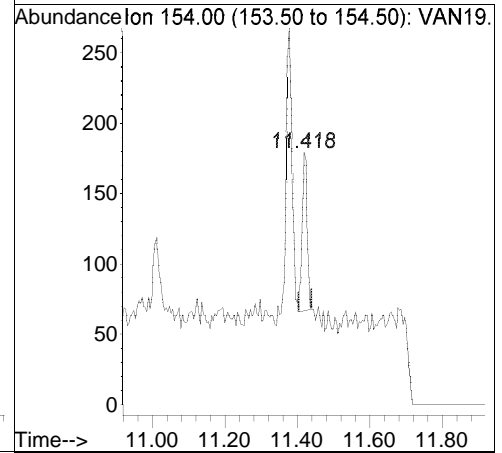


Raw

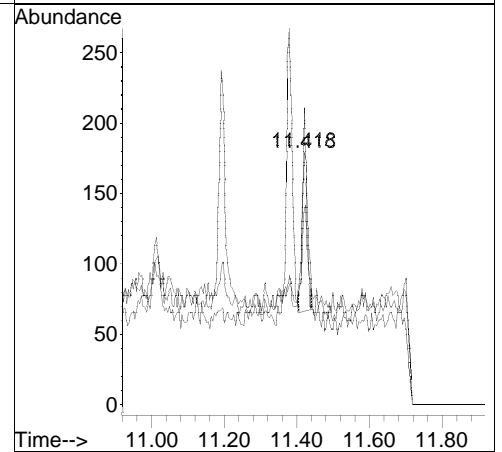
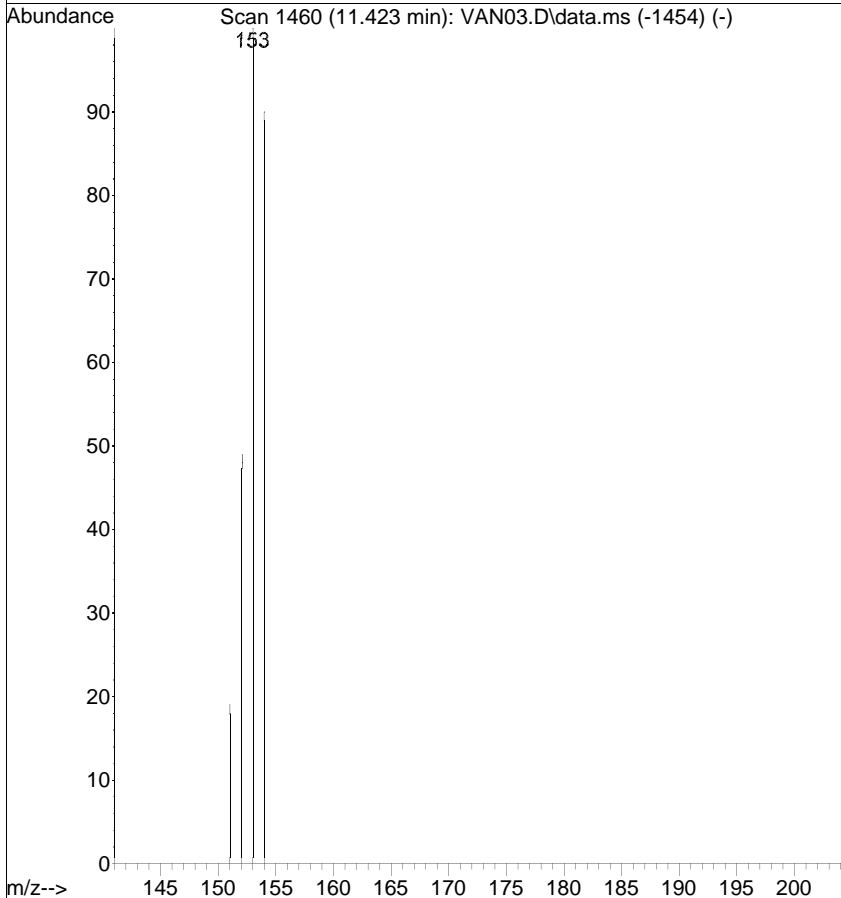


#11
 Acenaphthene
 Concen: 0.0017 ug/mL
 RT: 11.418 min Scan# 1459
 Delta R.T. -0.005 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

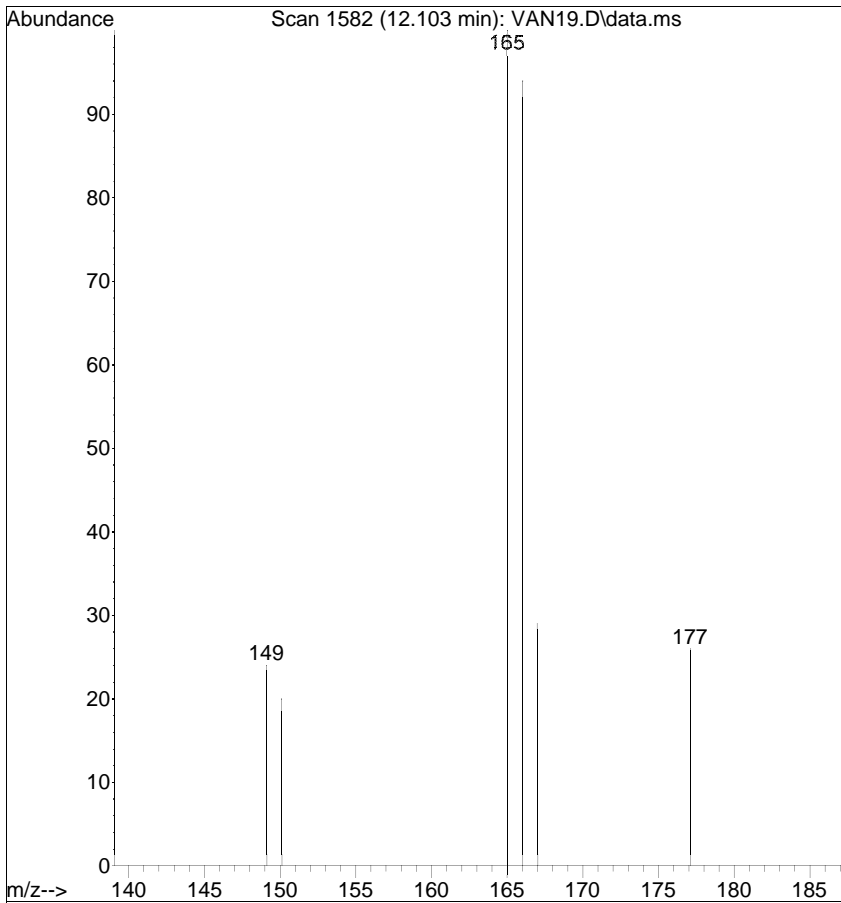
Tgt Ion	Resp	Lower	Upper
154	104		
152	76.0	35.4	75.4#
153	117.9	96.8	136.8



Ref

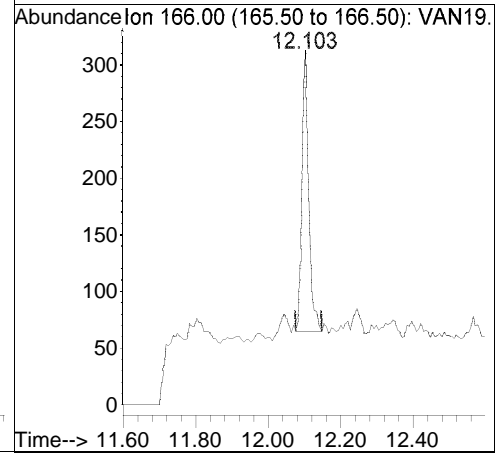


Raw

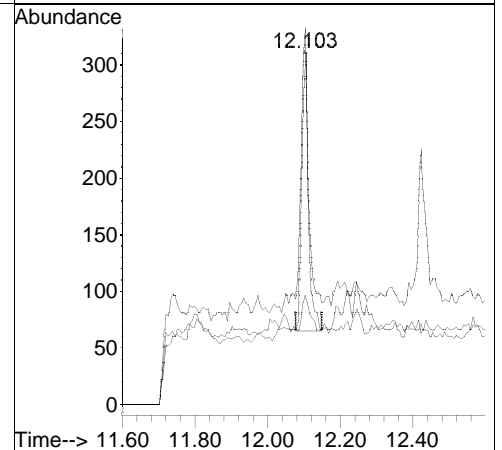
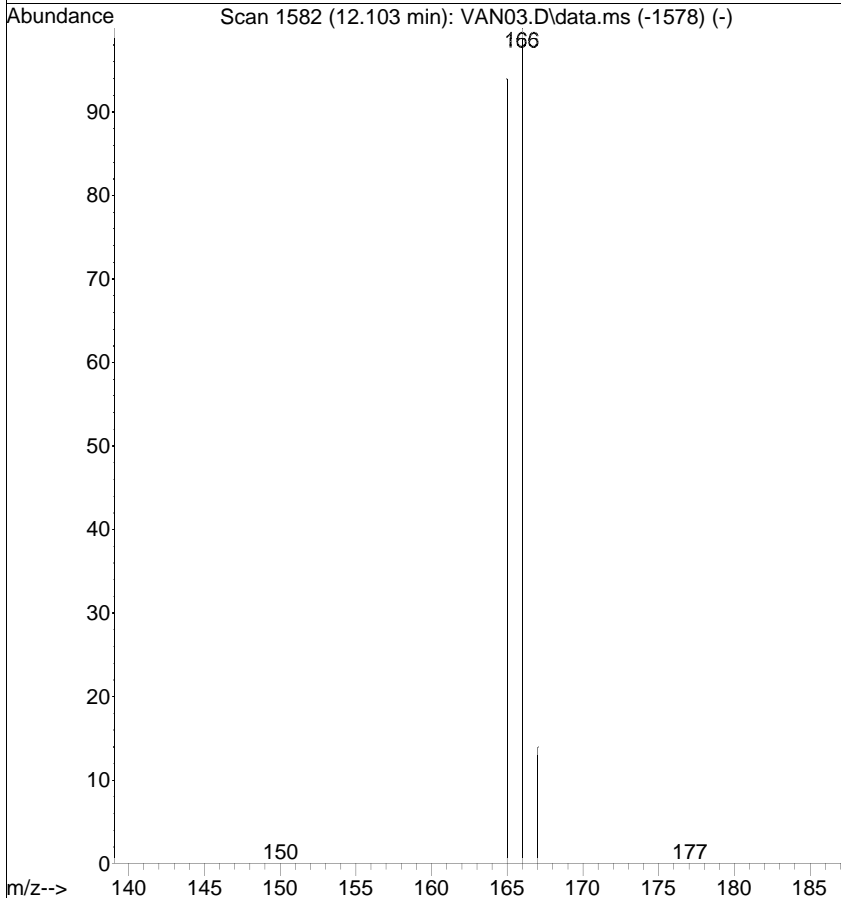


#12
 Fluorene
 Concen: 0.0041 ug/mL
 RT: 12.103 min Scan# 1582
 Delta R.T. -0.001 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

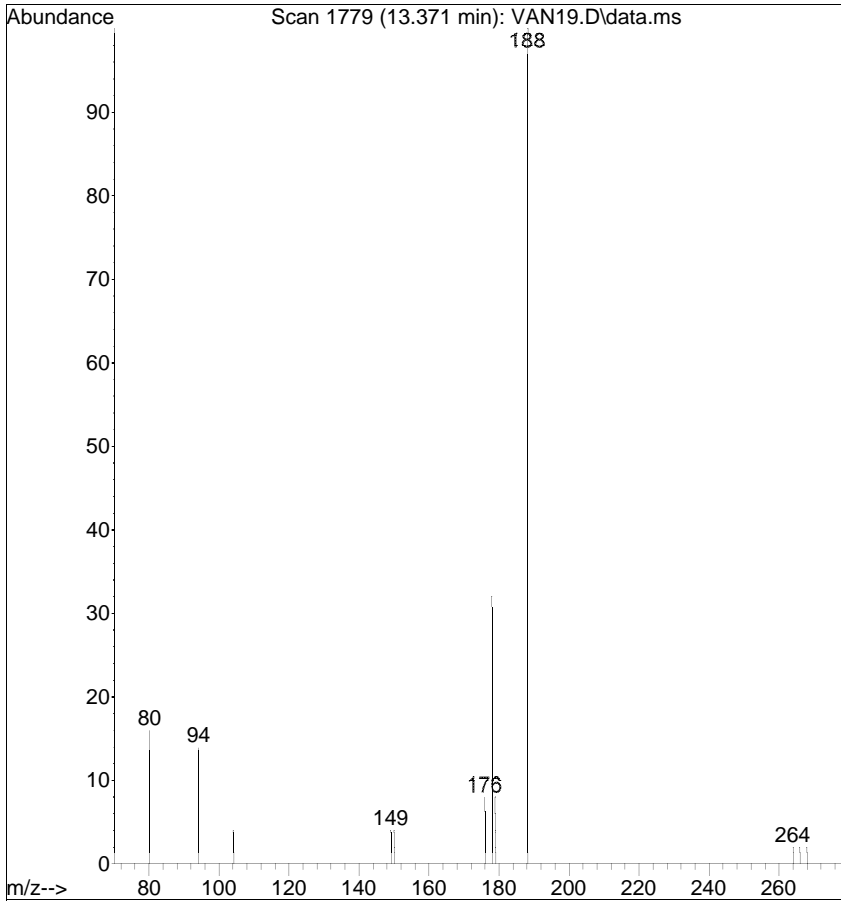
Tgt Ion	Resp	Lower	Upper
166	306		
166	100		
165	106.1	74.9	114.9
167	30.7	0.0	33.9



Ref

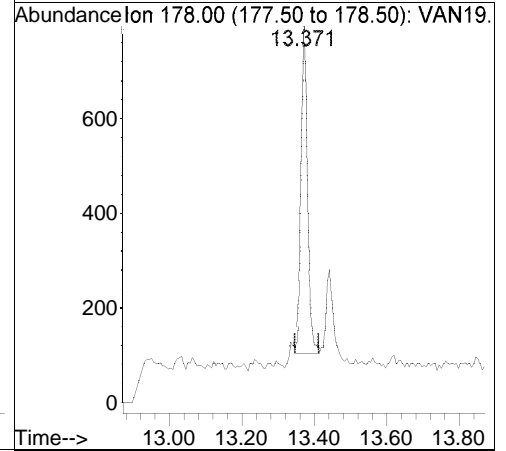


Raw

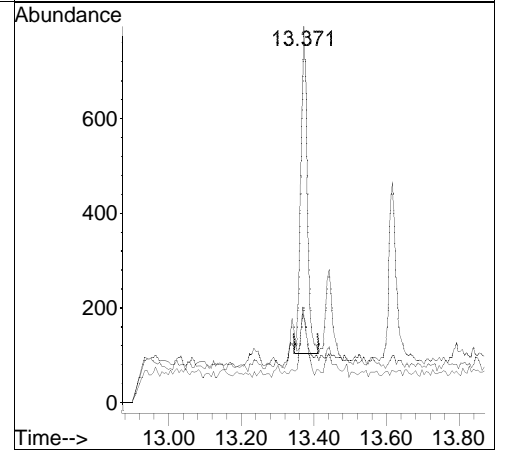
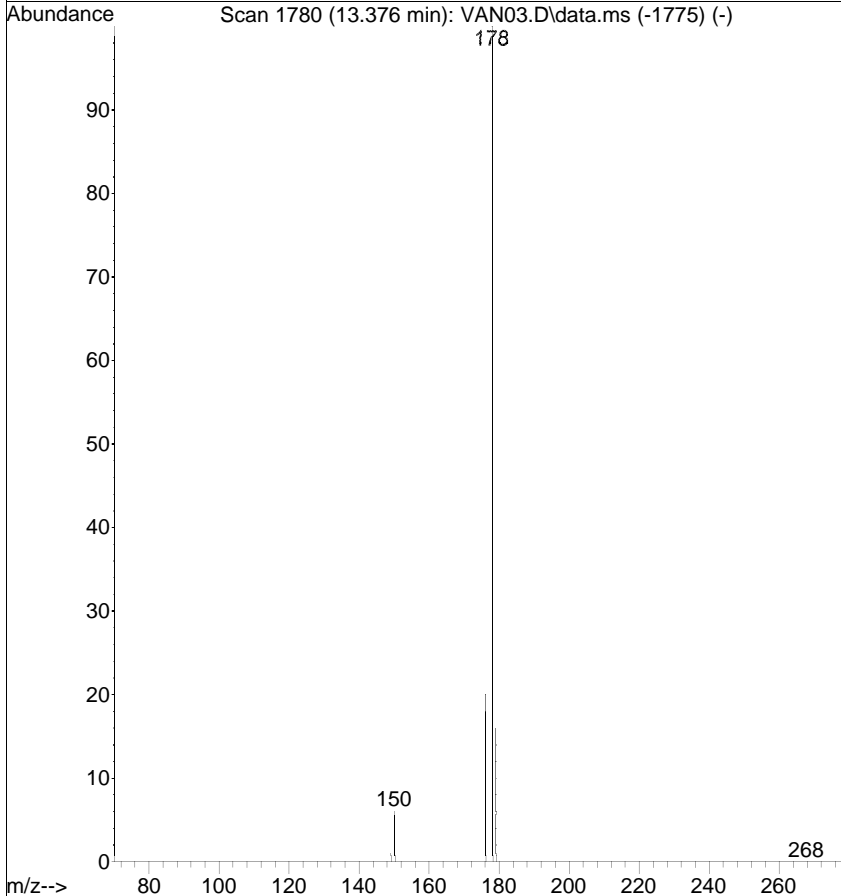


#15
 Phenanthrene
 Concen: 0.0081 ug/mL
 RT: 13.371 min Scan# 1779
 Delta R.T. -0.005 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

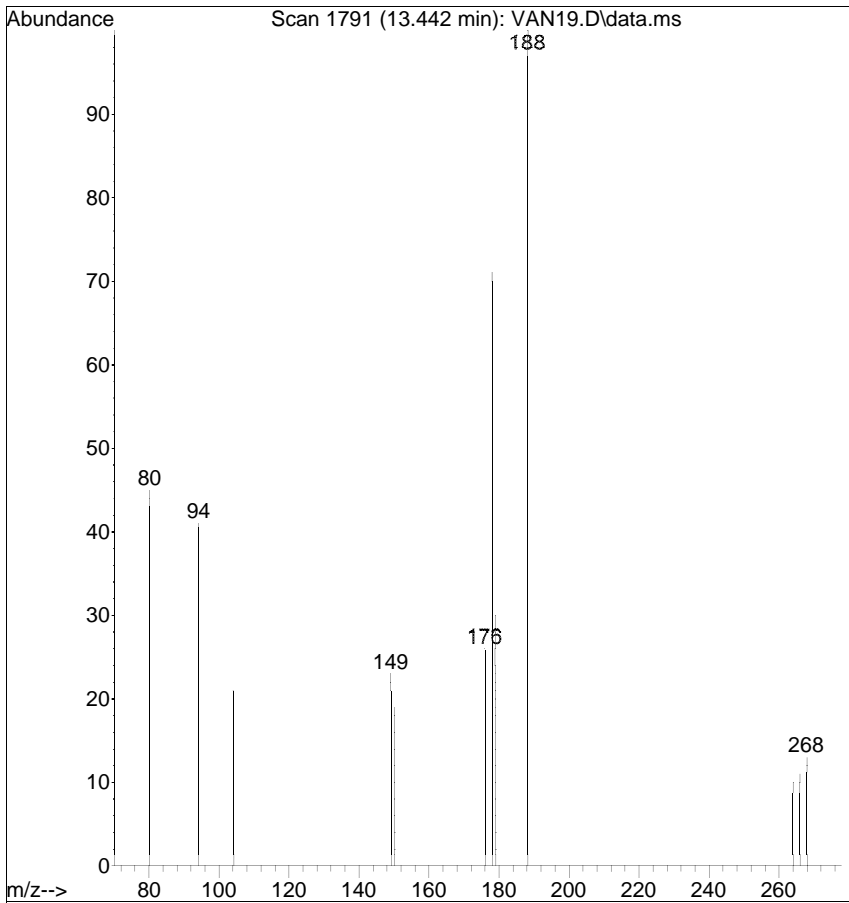
Tgt Ion	Resp	Lower	Upper
178	838		
179	23.7	0.0	35.0
176	25.4	0.0	38.9



Ref

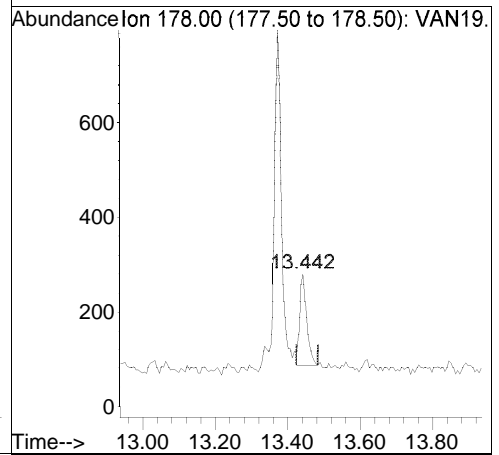


Raw

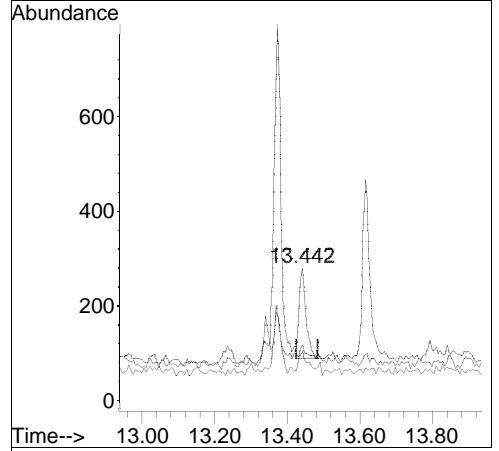
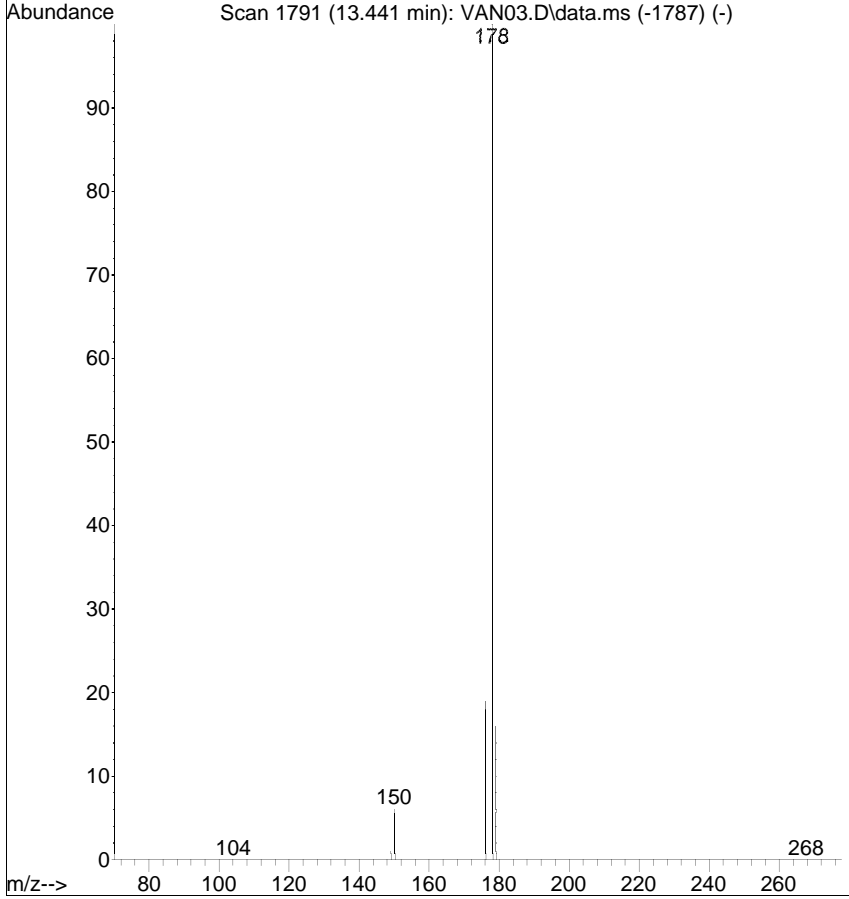


#16
 Anthracene
 Concen: 0.0026 ug/mL
 RT: 13.442 min Scan# 1791
 Delta R.T. 0.001 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

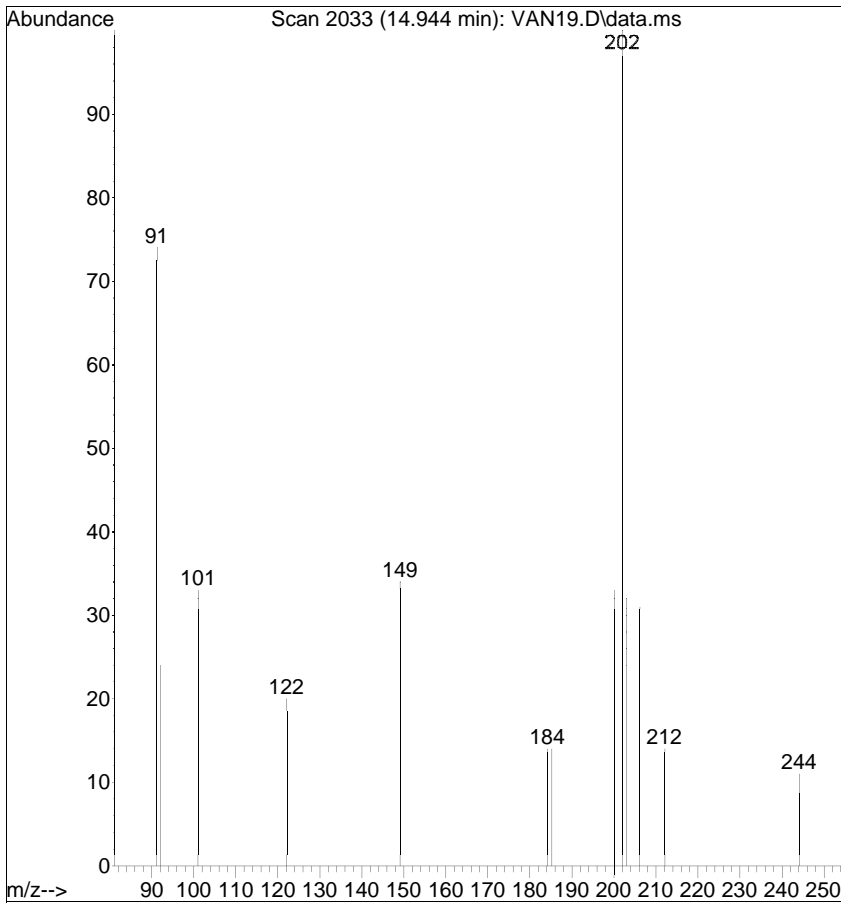
Tgt Ion	Resp	Lower	Upper
178	252		
178	100		
179	42.5	0.0	34.4#
176	36.8	0.0	39.5



Ref

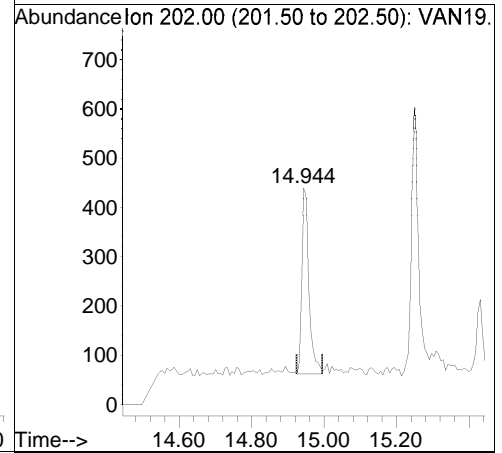


Raw

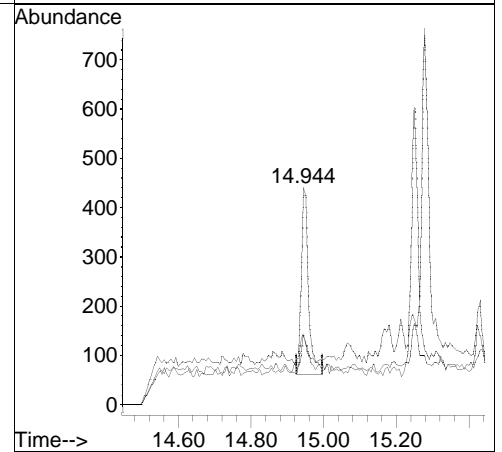
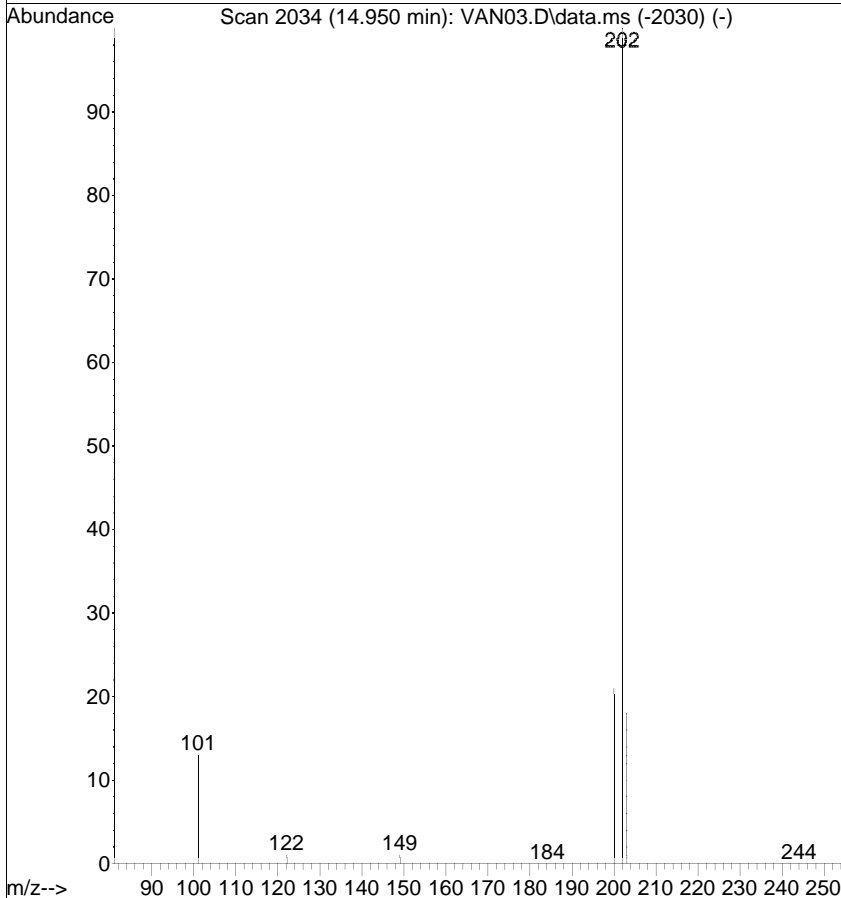


#17
 Fluoranthene
 Concen: 0.0041 ug/mL
 RT: 14.944 min Scan# 2033
 Delta R.T. -0.006 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

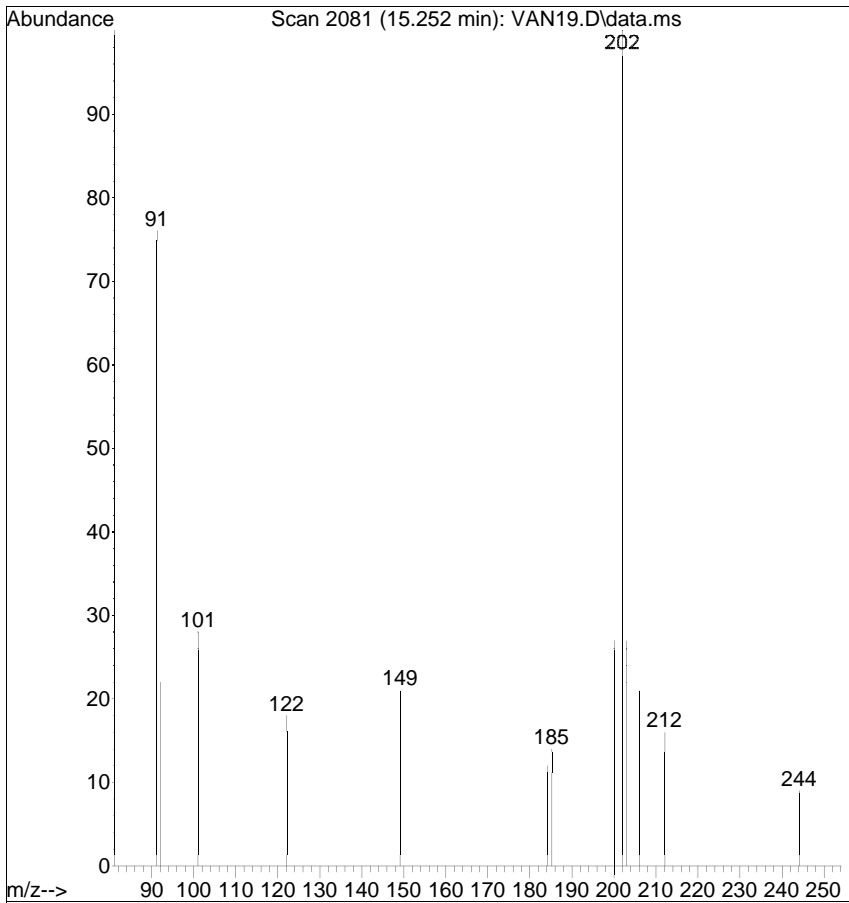
Tgt Ion	Ratio	Lower	Upper
202	100		
101	32.7	0.0	21.1#
203	31.6	0.0	37.0



Ref

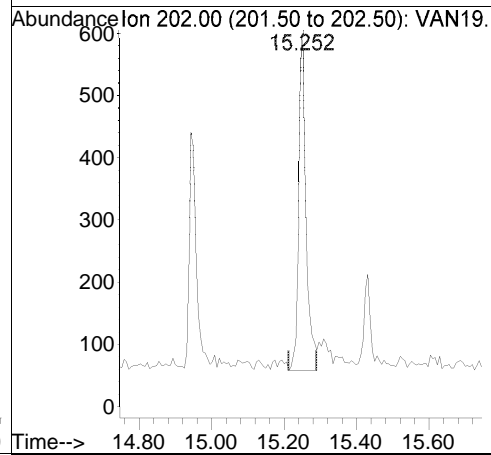


Raw

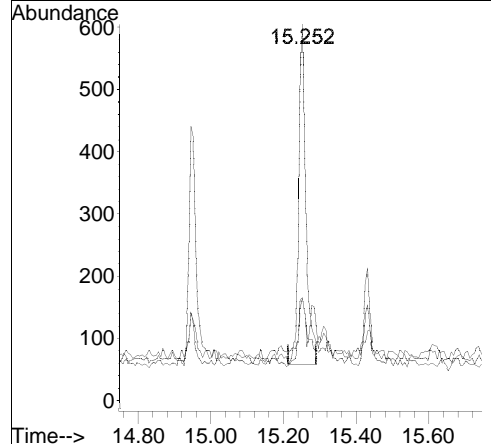
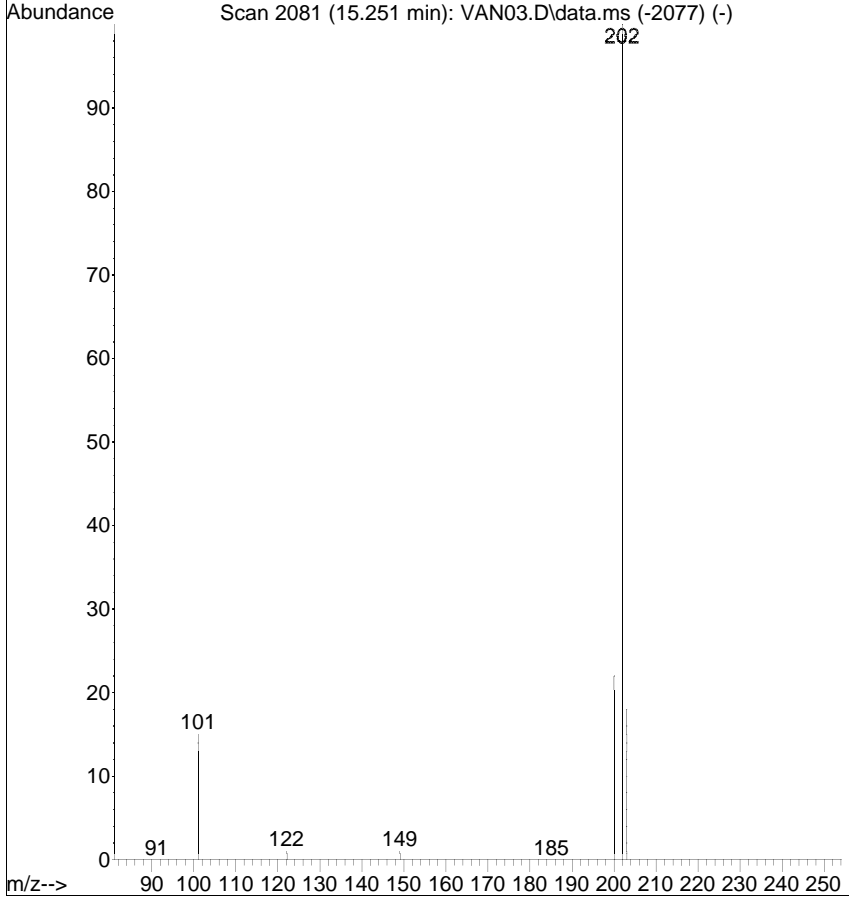


#19
 Pyrene
 Concen: 0.0069 ug/mL
 RT: 15.252 min Scan# 2081
 Delta R.T. 0.001 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

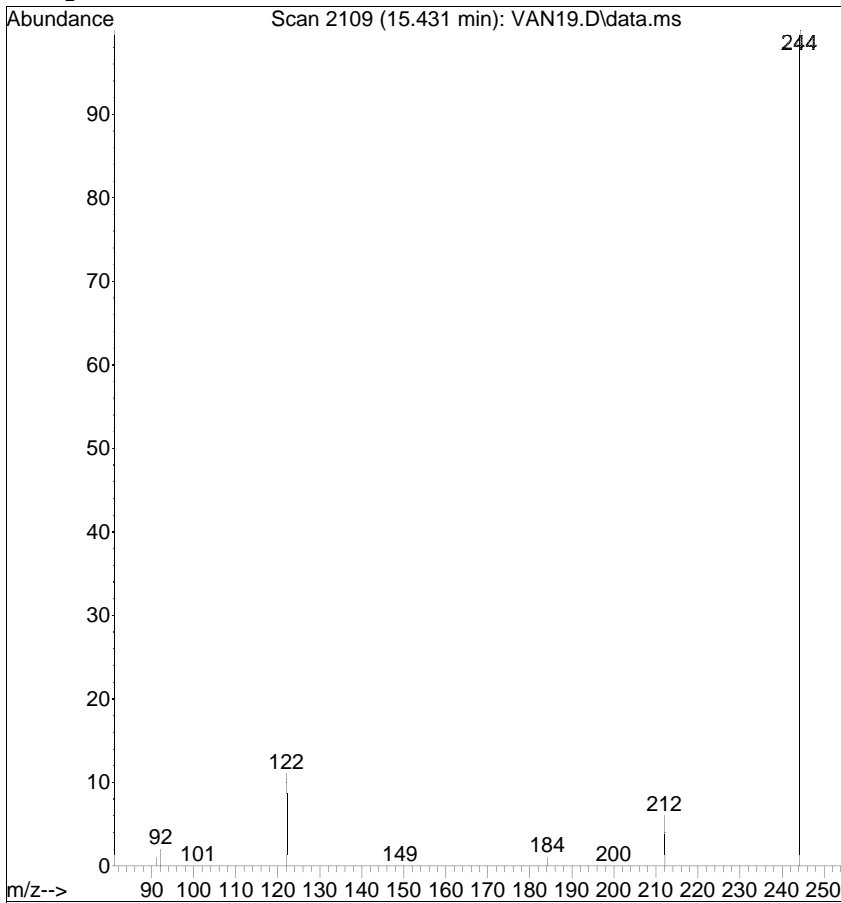
Tgt Ion	Resp	Lower	Upper
202	100		
200	27.5	1.1	41.1
203	27.5	0.0	37.7



Ref

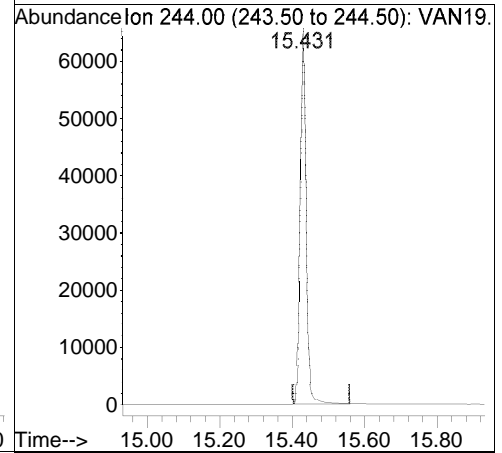


Raw

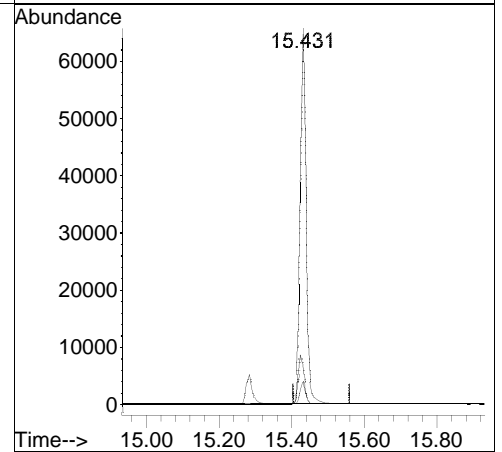
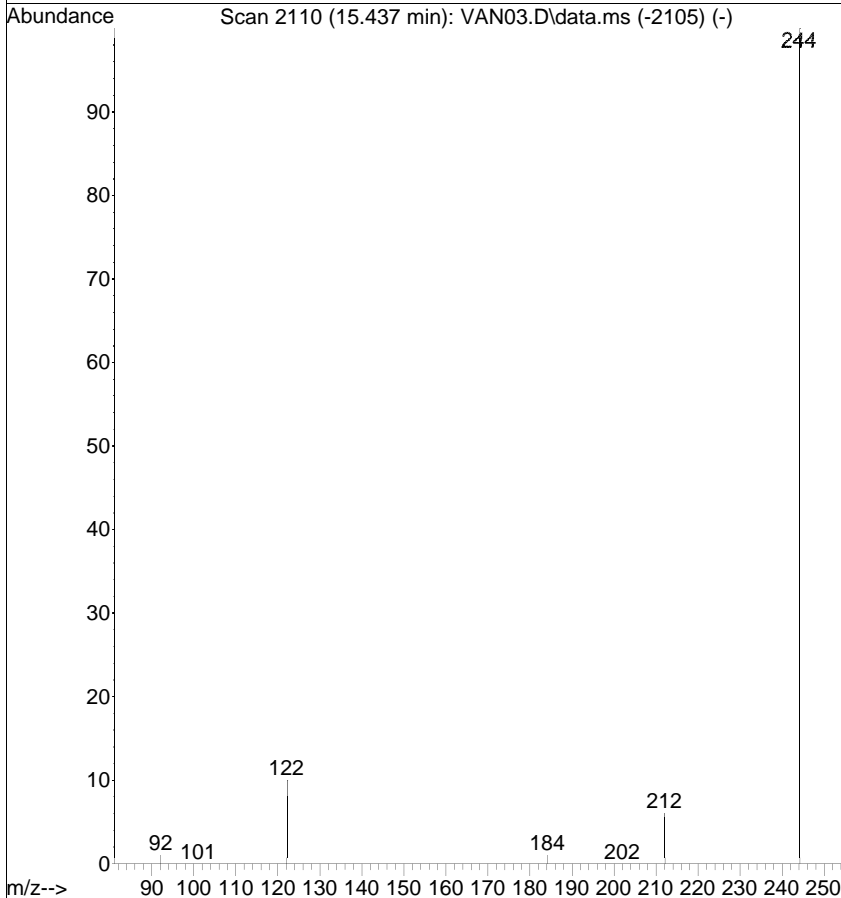


#20
 Terphenyl-d14
 Concen: 0.7658 ug/mL
 RT: 15.431 min Scan# 2109
 Delta R.T. -0.006 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

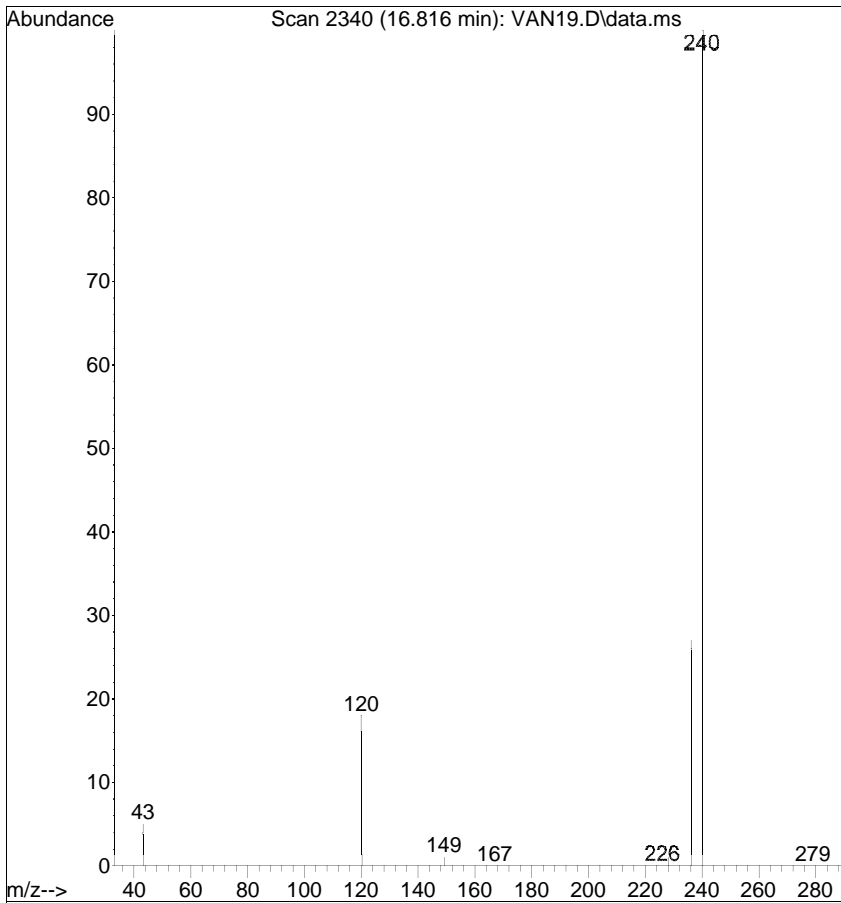
Tgt Ion	Resp	Lower	Upper
244	70903		
122	10.6	0.0	25.0
212	6.1	0.0	31.4



Ref

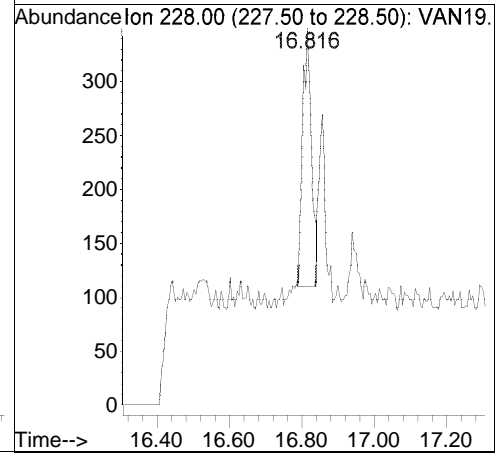


Raw

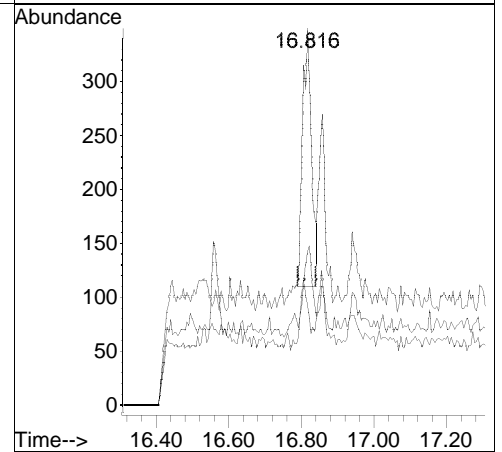
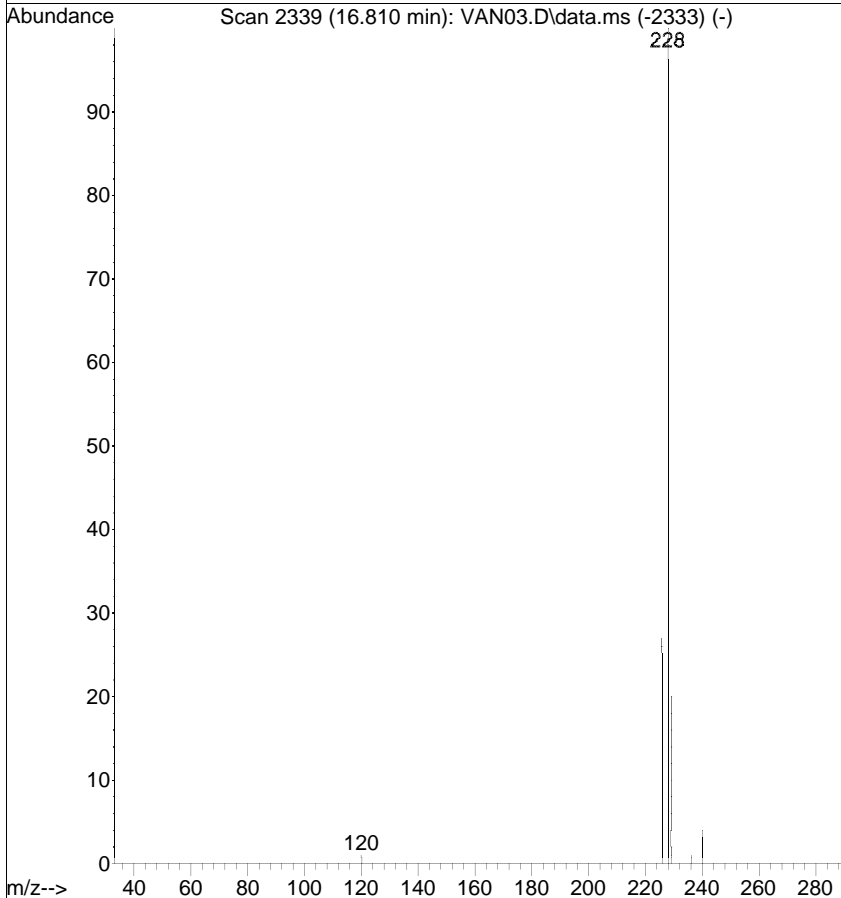


#21
 Benzo(a)anthracene
 Concen: 0.0039 ug/mL
 RT: 16.816 min Scan# 2340
 Delta R.T. 0.005 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

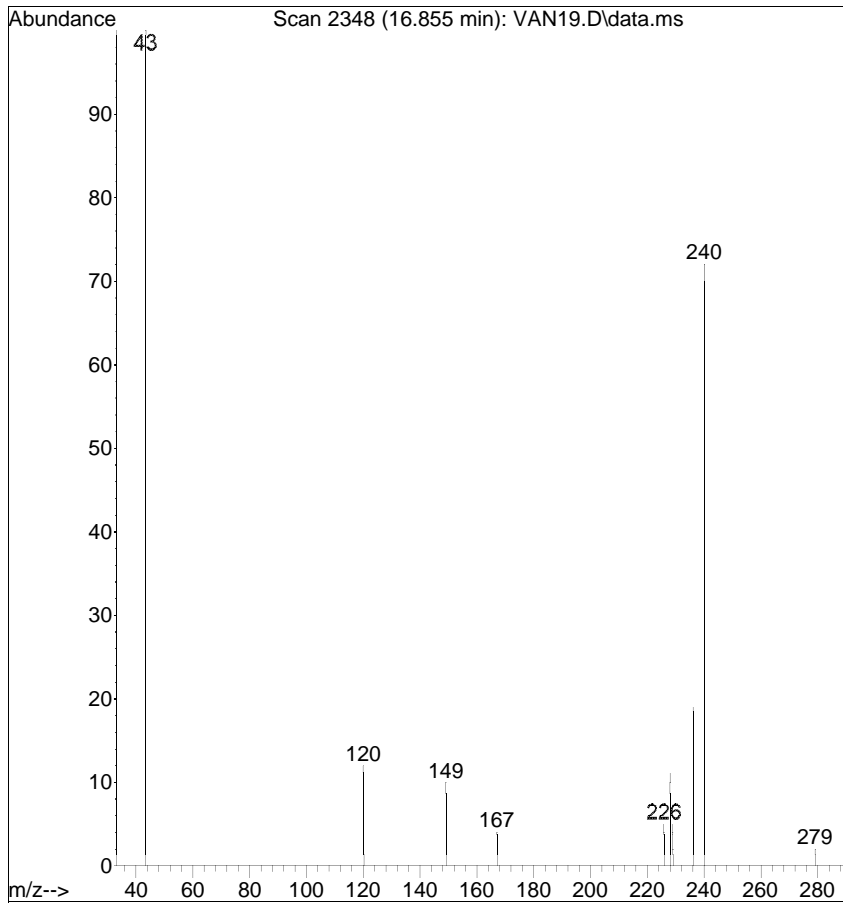
Tgt Ion	Ratio	Lower	Upper
228	100		
229	40.7	0.1	40.1#
226	26.9	9.3	49.3



Ref



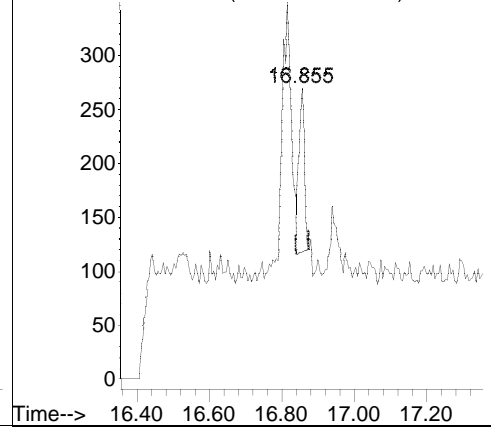
Raw



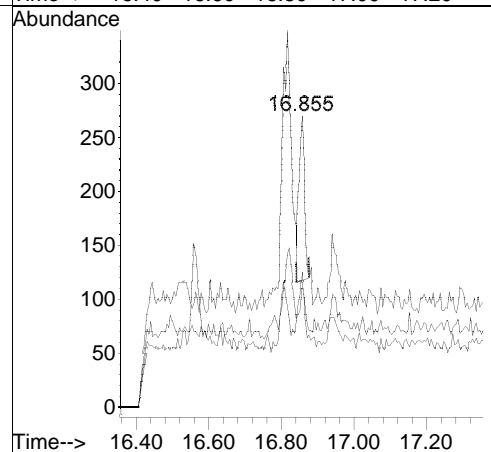
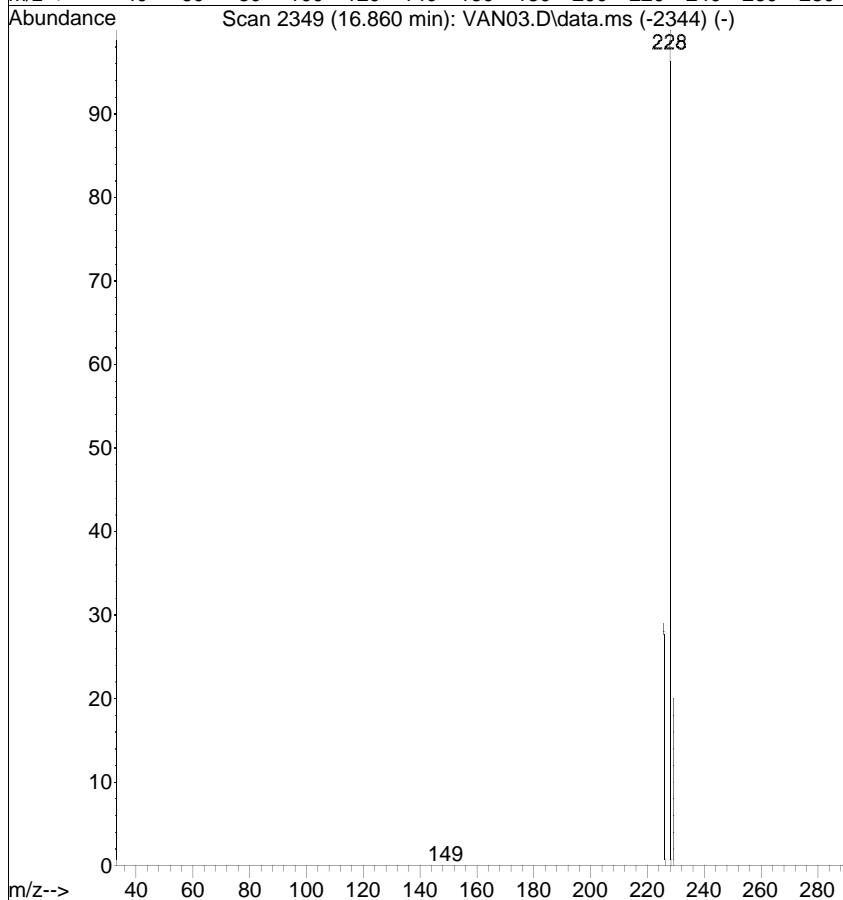
#22
 Chrysene
 Concen: 0.0016 ug/mL
 RT: 16.855 min Scan# 2348
 Delta R.T. -0.005 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

Tgt Ion	Ratio	Lower	Upper	Resp
228	100			156
226	41.1	13.4	53.4	
229	46.3	0.8	40.8	

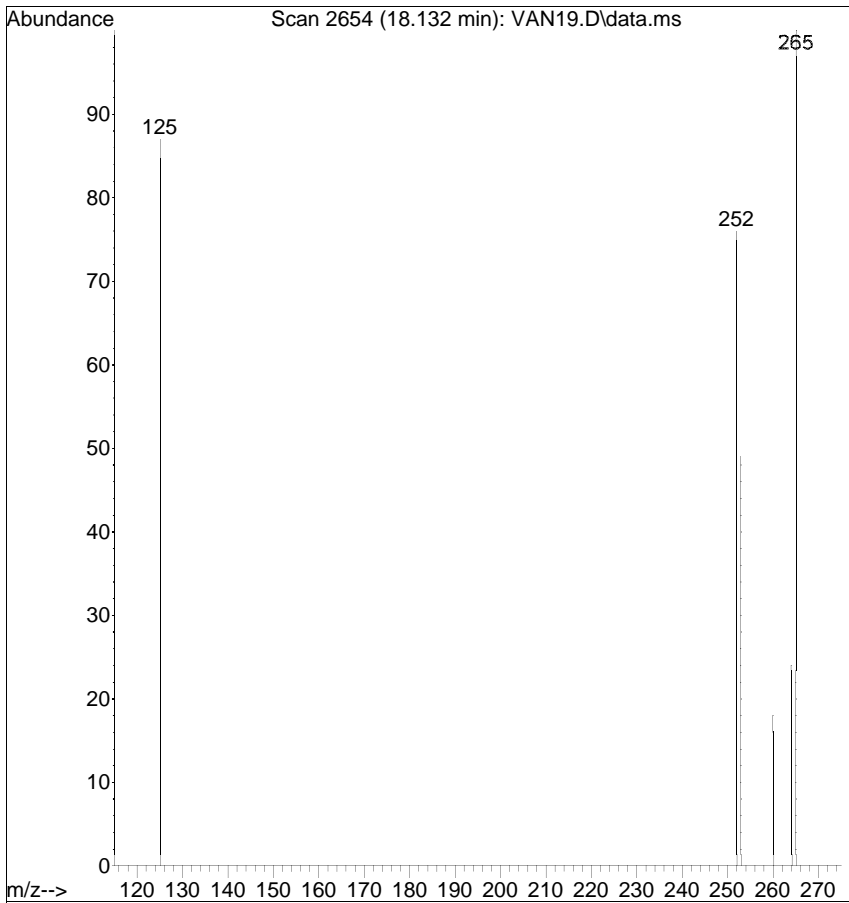
Abundance Ion 228.00 (227.50 to 228.50): VAN19.



Ref

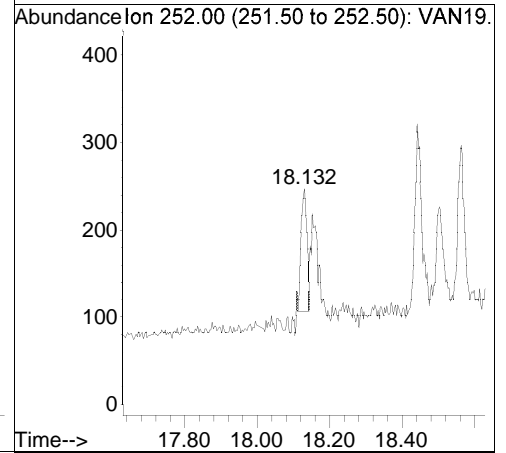


Raw

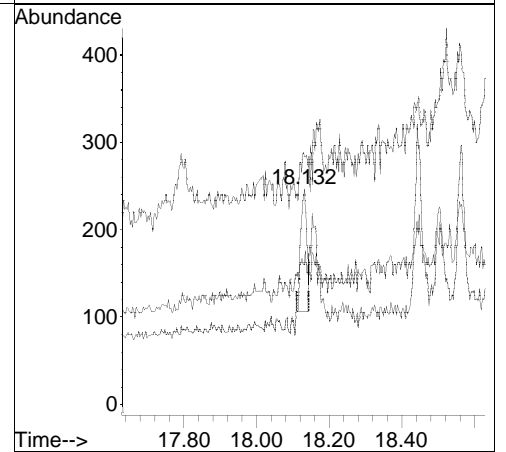
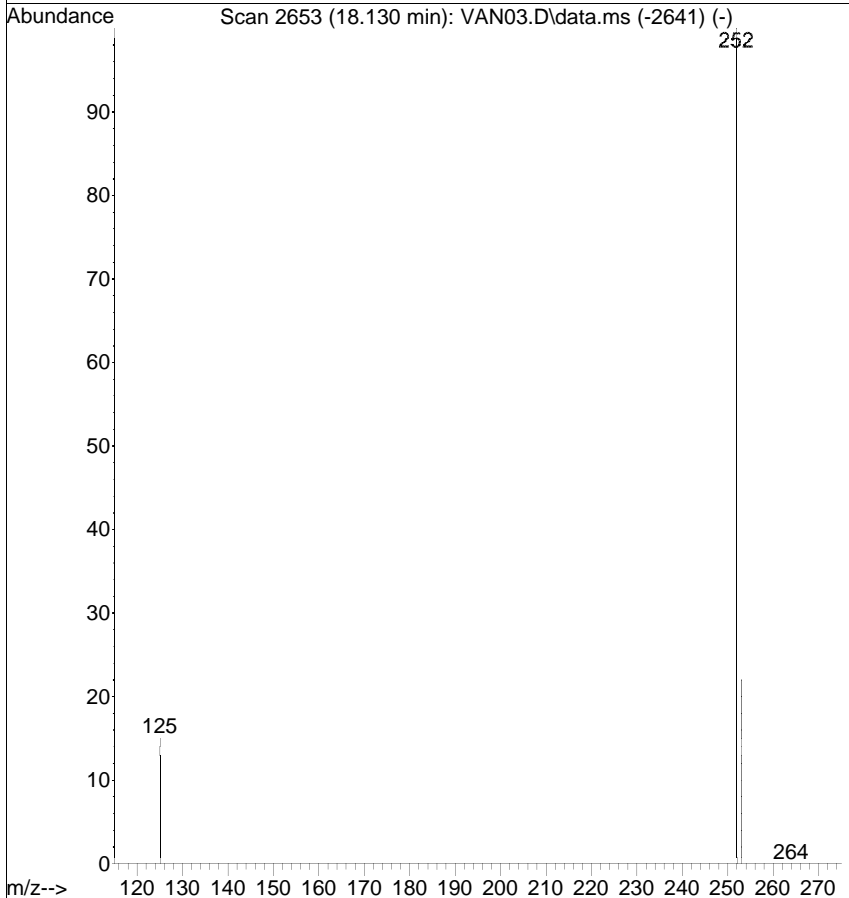


#24
 Benzo(b)fluoranthene
 Concen: 0.0018 ug/mL
 RT: 18.132 min Scan# 2654
 Delta R.T. 0.002 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

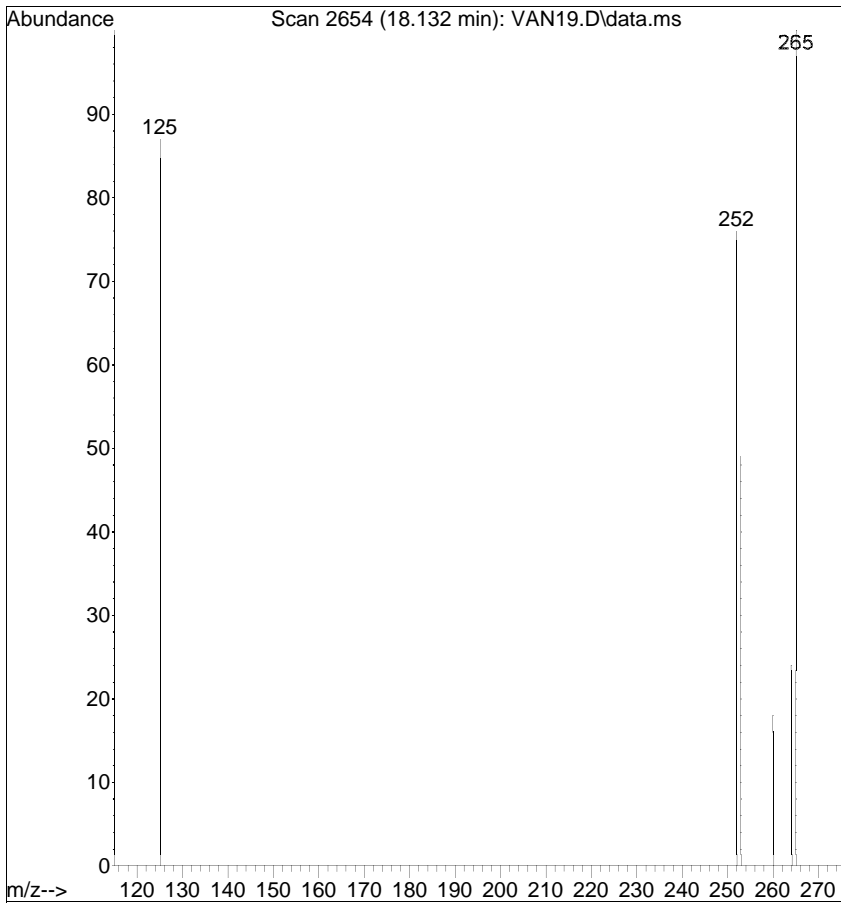
Tgt Ion	Resp	Lower	Upper
252	100		
253	64.4	1.0	41.0#
125	114.6	0.0	20.9#



Ref

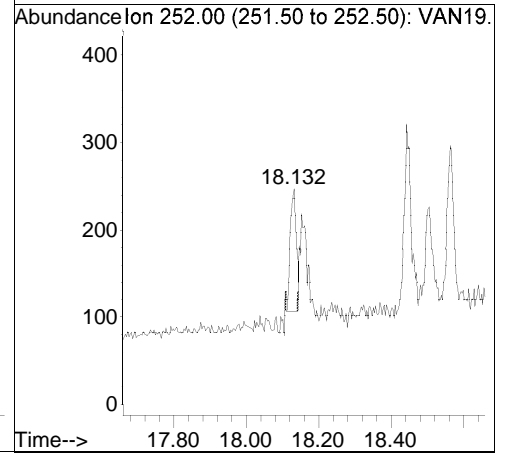


Raw

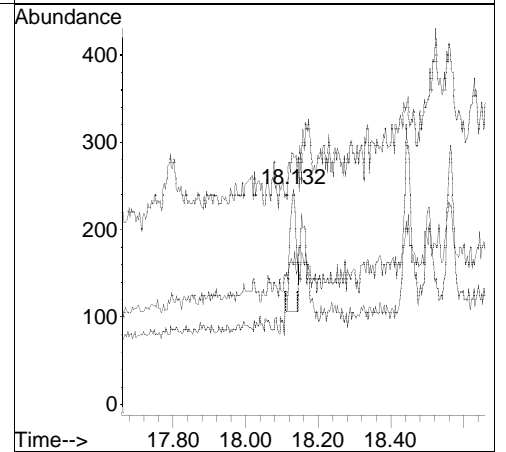
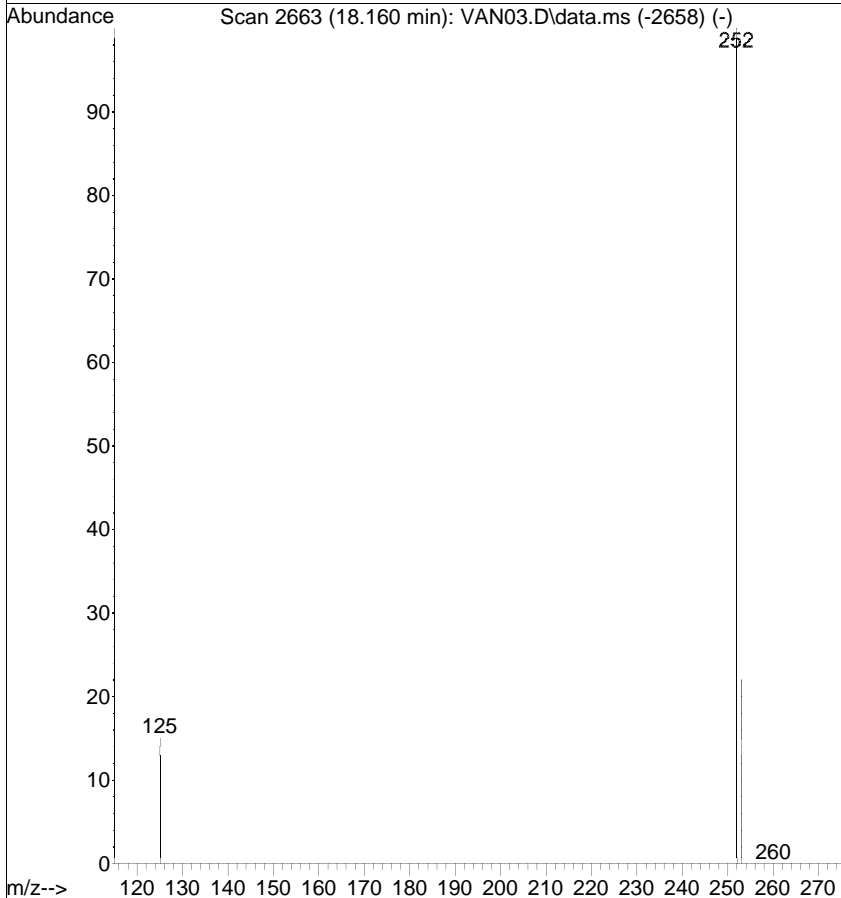


#25
 Benzo(k)fluoranthene
 Concen: 0.0019 ug/mL
 RT: 18.132 min Scan# 2654
 Delta R.T. -0.028 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

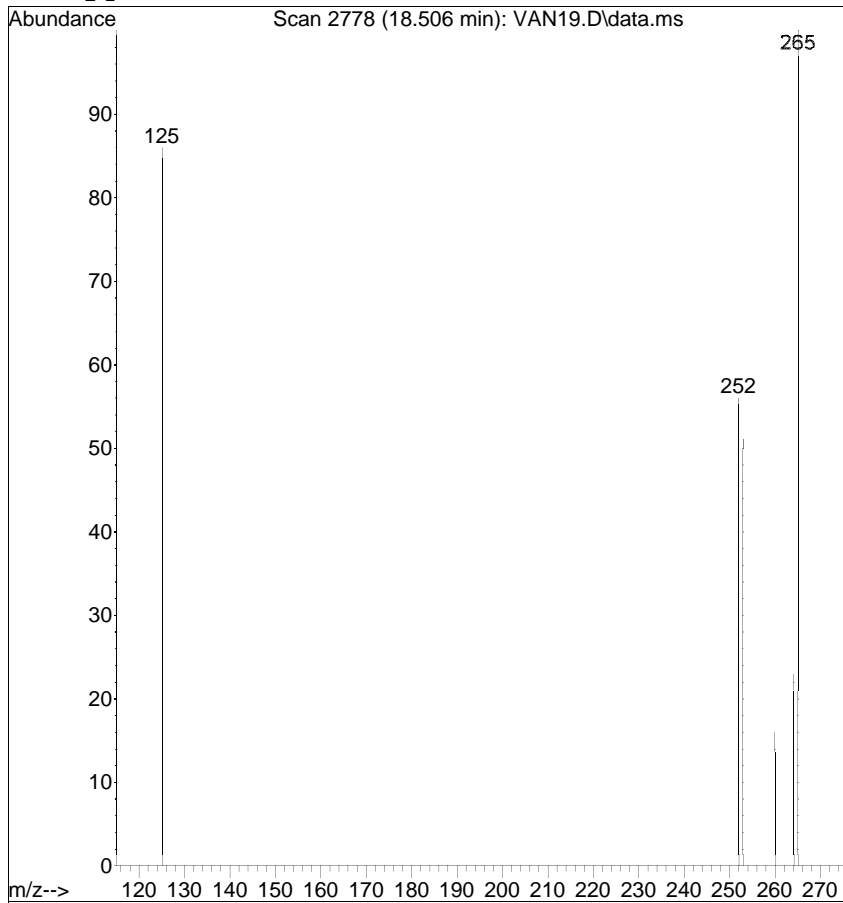
Tgt Ion	Resp	Lower	Upper
252	166		
252	100		
253	64.4	1.1	41.1#
125	114.6	0.0	21.1#



Ref

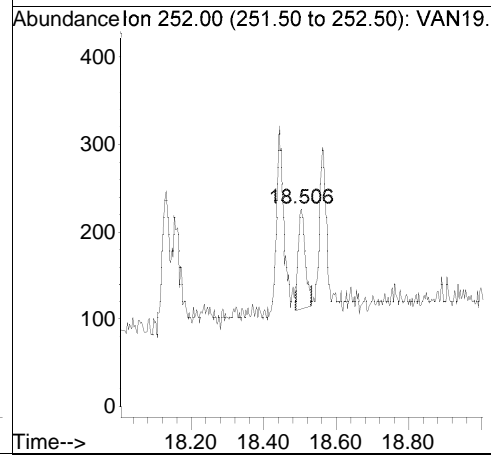


Raw

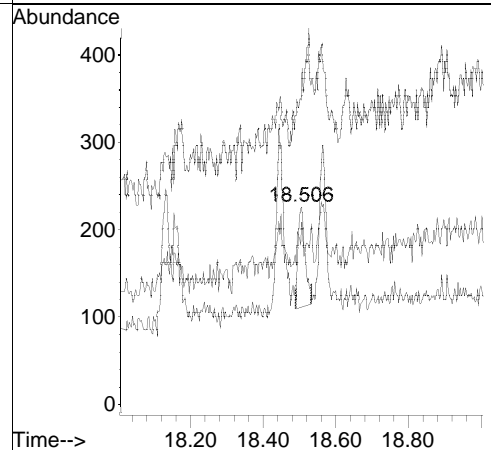
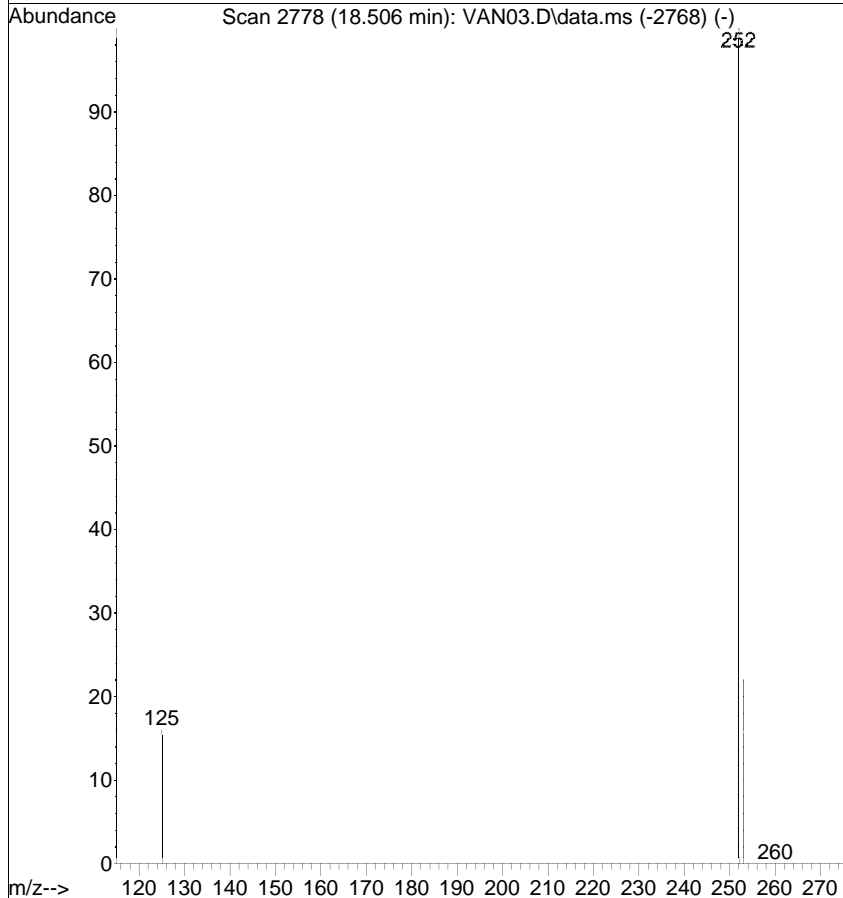


#26
 Benzo(a)pyrene
 Concen: 0.0019 ug/mL
 RT: 18.506 min Scan# 2778
 Delta R.T. -0.001 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

Tgt Ion	Resp	Lower	Upper
252	151		
253	100		
252	100		
253	92.5	3.4	43.4#
125	154.0	0.0	20.9#

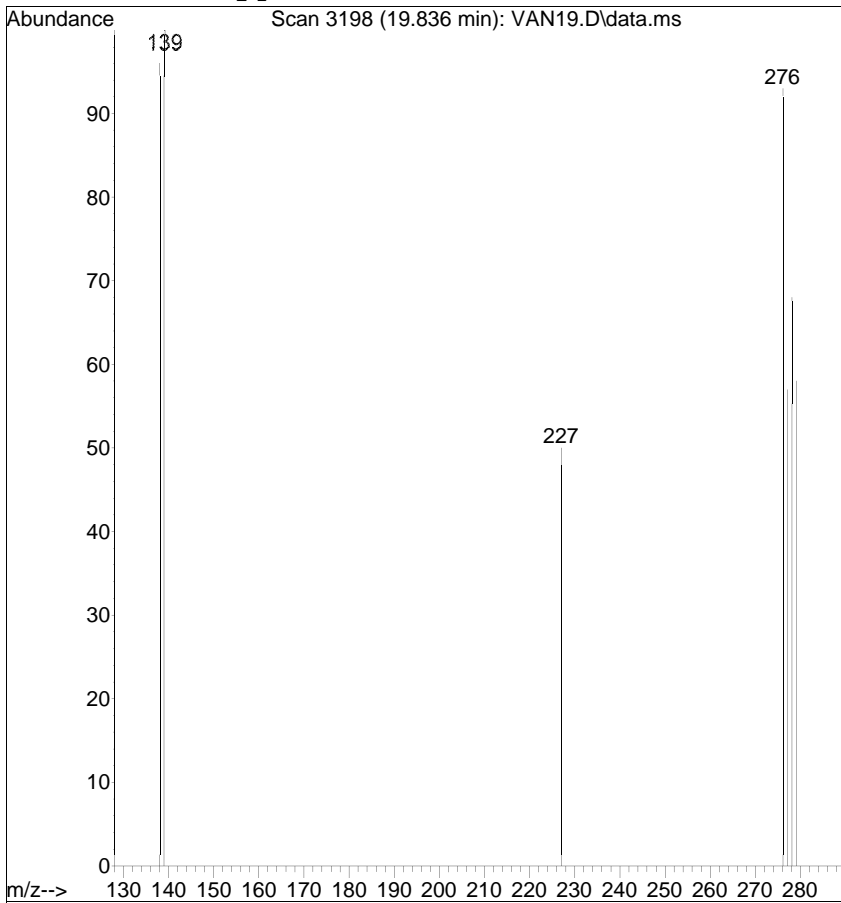


Ref



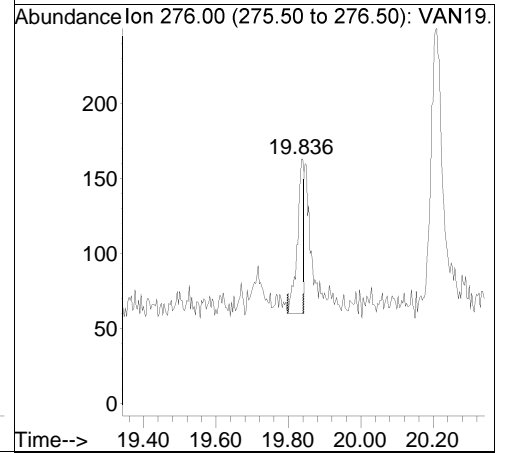
[Indeno(1,2,3-cd)pyrene; <RL; u]

Raw

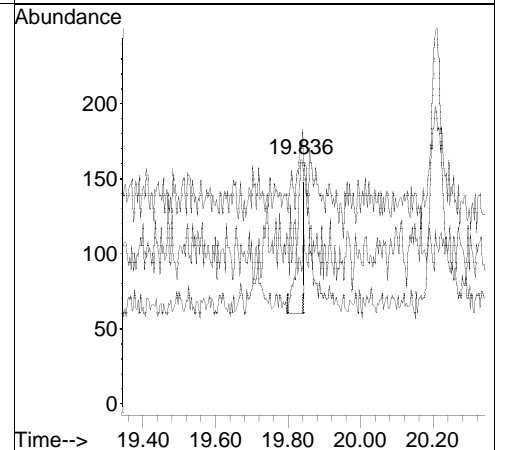
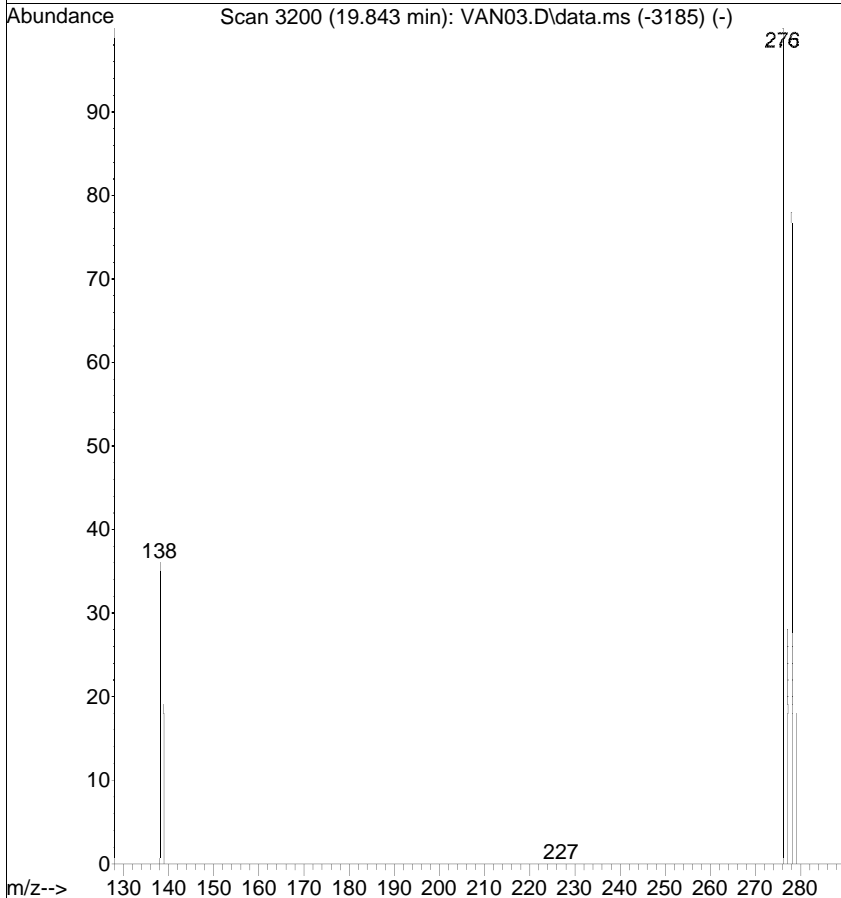


#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.0016 ug/mL
 RT: 19.836 min Scan# 3198
 Delta R.T. -0.007 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

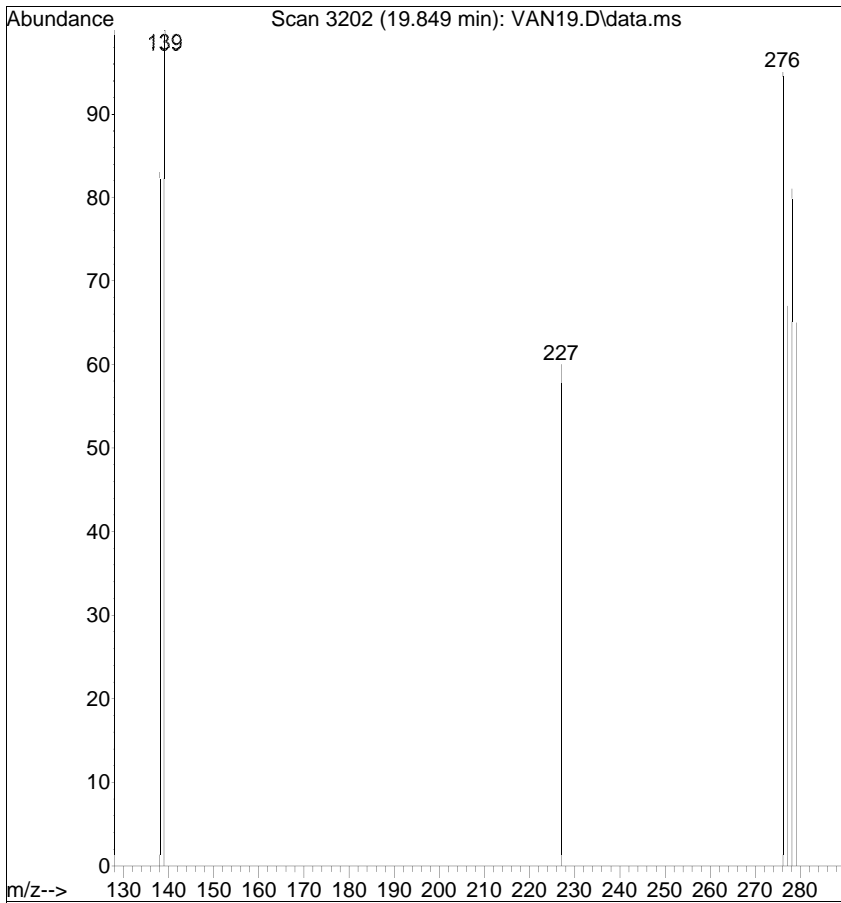
Tgt Ion	Ratio	Lower	Upper
276	100		
138	103.1	0.0	23.1#
227	54.0	0.0	21.0#



Ref



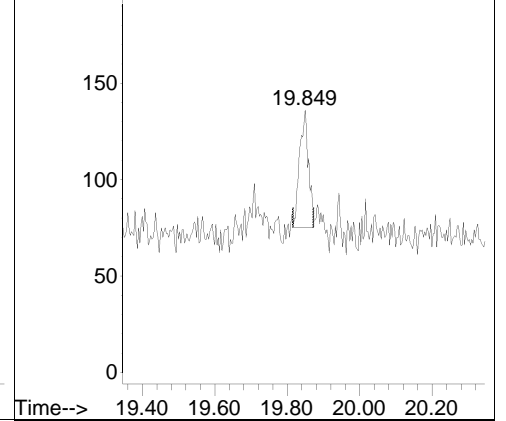
Raw



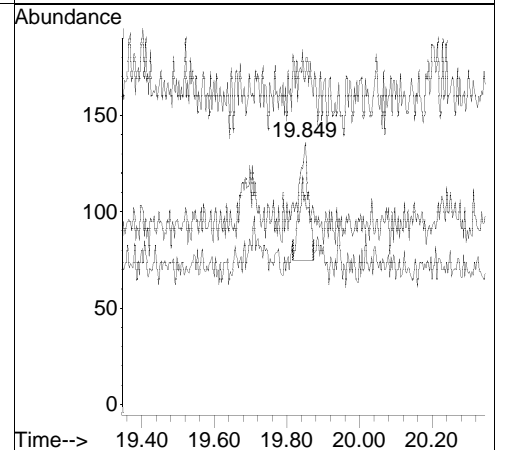
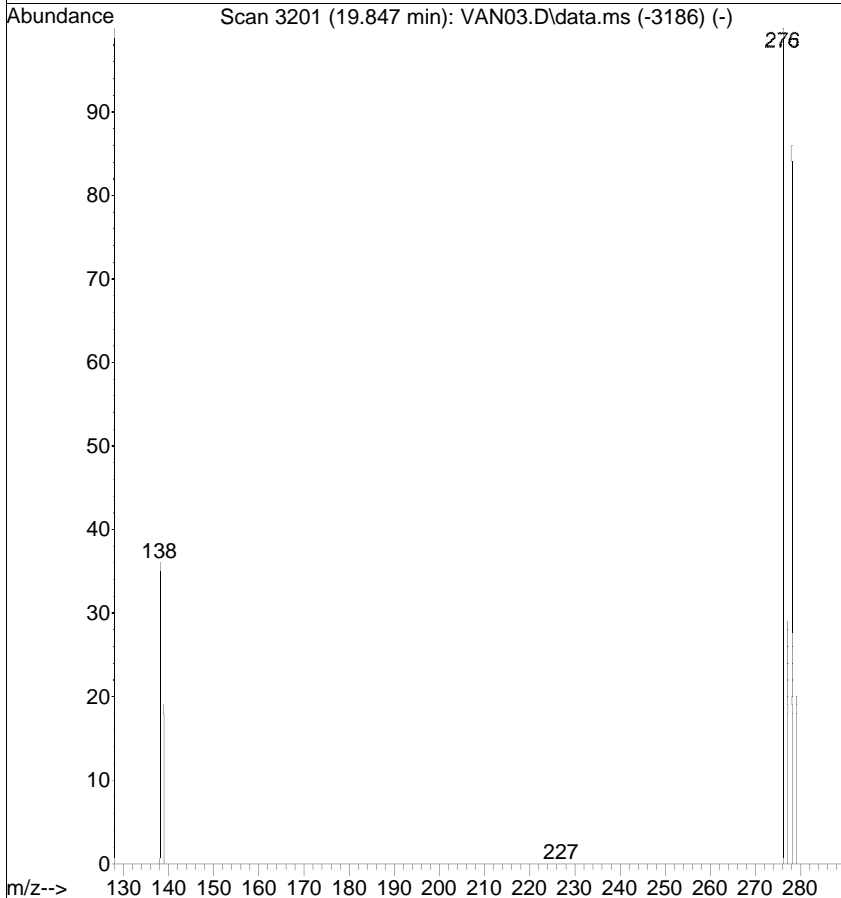
#28
 Dibenz(a,h)anthracene
 Concen: 0.0015 ug/mL
 RT: 19.849 min Scan# 3202
 Delta R.T. 0.003 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

Tgt Ion	Ratio	Lower	Upper	Resp
278	100			105
139	122.8	0.0	22.2#	
279	80.1	0.7	40.7#	

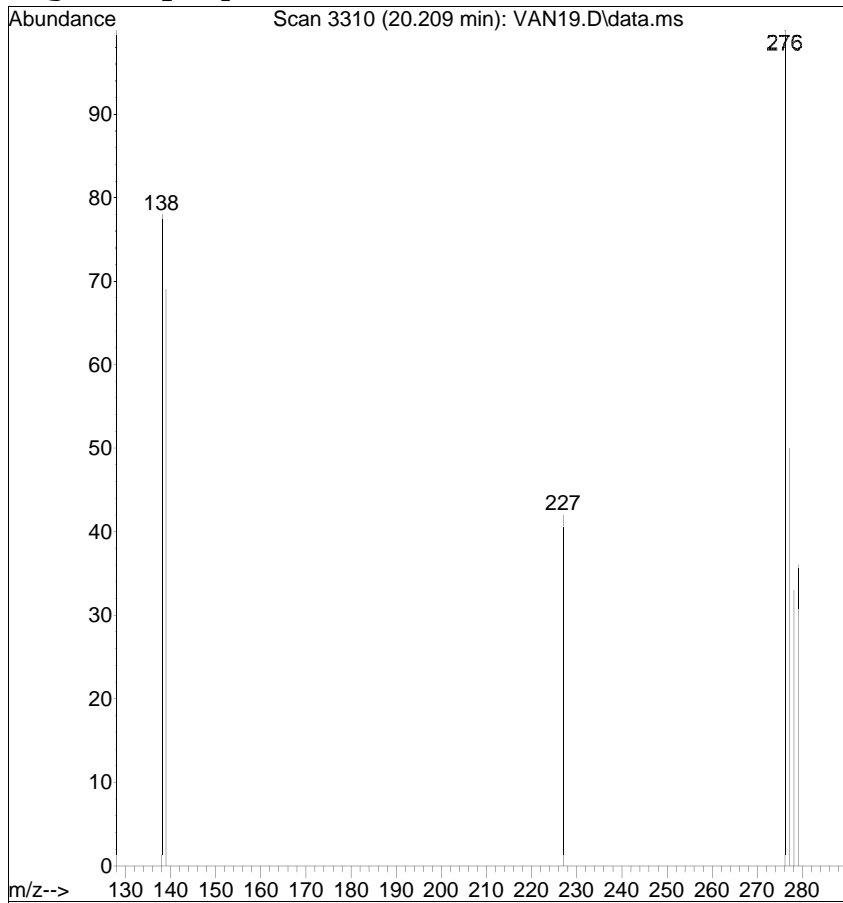
Abundance Ion 278.00 (277.50 to 278.50): VAN19.



Ref

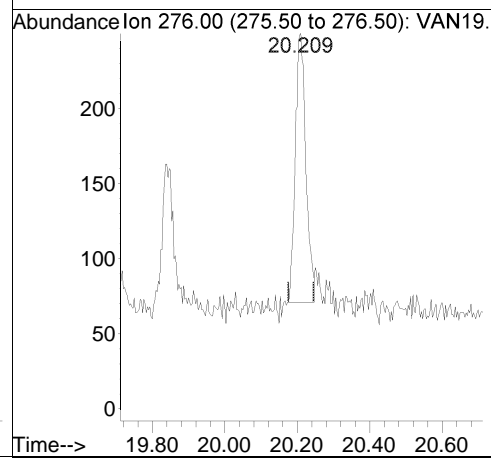


Raw

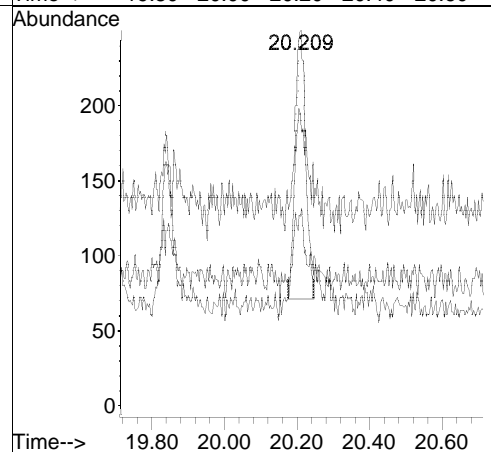
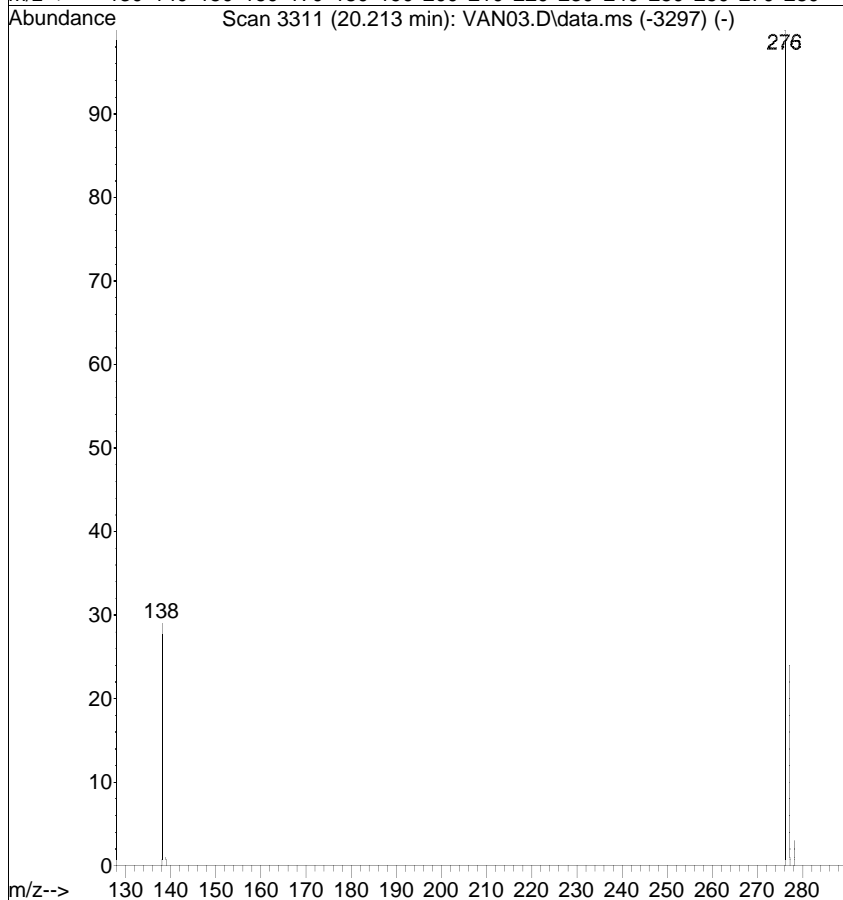


#29
 Benzo(g,h,i)perylene
 Concen: 0.0053 ug/mL
 RT: 20.209 min Scan# 3310
 Delta R.T. -0.004 min
 Lab File: VAN19.D
 Acq: 23 Jan 2019 7:27 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	78.0	0.0	22.1#
277	50.4	2.5	42.5#



Ref



ENTHALPY SPIKE USER REPORT FOR 306574 MSSIM Water
EPA 8270C-SIM

Type : BS
 Inst : MSBNA03
 Seqnum : 529033718020.3
 File : van20
 IDF : 1.0
 Lab ID : QC962226
 Matrix : Water
 Batch : 267157
 Time : 23-JAN-2019 20:02
 Cal : 529010667001
 Units : ug/L

Type : BSD
 Inst : MSBNA03
 Seqnum : 529033718021.3
 File : van21
 IDF : 1.0
 Lab ID : QC962227
 Matrix : Water
 Batch : 267157
 Time : 23-JAN-2019 20:35
 Cal : 529010667001

BS: 1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF
 BSD: 1000.00 mL --> 1.0 ml = 0.001 ml/ml PDF

Analyte	Spiked	BS Raw	BS Result	%Rec	BSD Raw	BSD Result	%Rec	Limits	RPD	Lim	Flags
Acenaphthene	1.000	0.9191	0.9191	92	1.011	1.011	101	69-120	9	21	u
Pyrene	1.000	1.020	1.020	102	1.111	1.111	111	69-123	9	32	u
Nitrobenzene-d5	1.000	0.9693	0.9693	97	1.061	1.061	106	58-134			c+ u
2-Fluorobiphenyl	1.000	0.7058	0.7058	71	0.7831	0.7831	78	53-120			u
Terphenyl-d14	1.000	0.7949	0.7949	79	0.8832	0.8832	88	18-128			u

ISTD (CCV van03)	CCV Area	BS Area	%Drift	CCV RT	BS RT	Drift
Naphthalene-d8	83666	90854	8.59	9.07	9.07	0.01
Acenaphthene-d10	46943	51408	9.51	11.38	11.38	0.00
Phenanthrene-d10	93369	103826	11.20	13.35	13.34	-0.01
Chrysene-d12	68125	79061	16.05	16.83	16.83	0.01
Perylene-d12	63350	70182	10.78	18.57	18.57	0.00

ISTD (CCV van03)	CCV Area	BSD Area	%Drift	CCV RT	BSD RT	Drift
Naphthalene-d8	83666	89176	6.59	9.07	9.06	-0.01
Acenaphthene-d10	46943	50594	7.78	11.38	11.38	0.00
Phenanthrene-d10	93369	100017	7.12	13.35	13.34	-0.01
Chrysene-d12	68125	77276	13.43	16.83	16.82	-0.01
Perylene-d12	63350	66593	5.12	18.57	18.57	0.00

YW1 01/24/19 [1,4-Dioxane]: Corrected automatically drawn baseline for spike & dup. [general version]

LW 02/04/19 : 5% failure is Dibenz(a,h)anthracene at 43% recovery in the BS with a lower limit of 47%. BSD passed at 47% and the RPD is 8.

5% spike rule

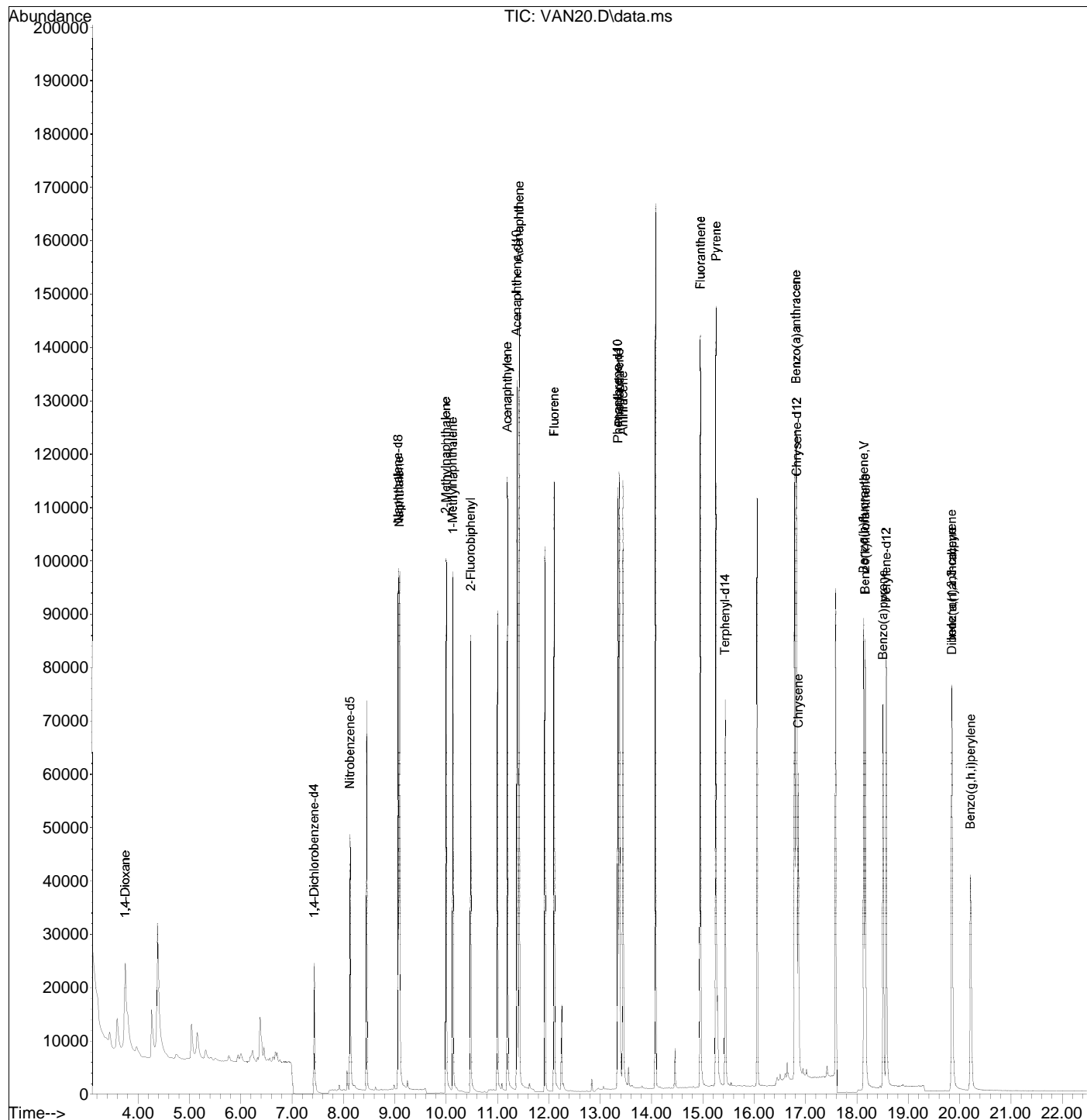
Analyst: ECI Date: 02/04/19 Reviewer: LW Date: 02/04/19

+ = high bias c = CCV u = use

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\012319\
 Data File : VAN20.D
 Acq On : 23 Jan 2019 8:02 pm
 Operator :
 Sample : bs,qc962226
 Misc : 267157,1,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 24 12:20:51 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Wed Jan 23 11:15:51 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\012319\
 Data File : VAN20.D
 Acq On : 23 Jan 2019 8:02 pm
 Operator :
 Sample : bs,qc962226
 Misc : 267157,1,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 24 12:20:51 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Wed Jan 23 11:15:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.430	152	22802	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.065	136	90854	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.379	164	51408	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.341	188	103826	1.0000	ug/mL	0.00
18) Chrysene-d12	16.826	240	79061	1.0000	ug/mL	0.00
23) Perylene-d12	18.567	264	70182	1.0000	ug/mL	0.00

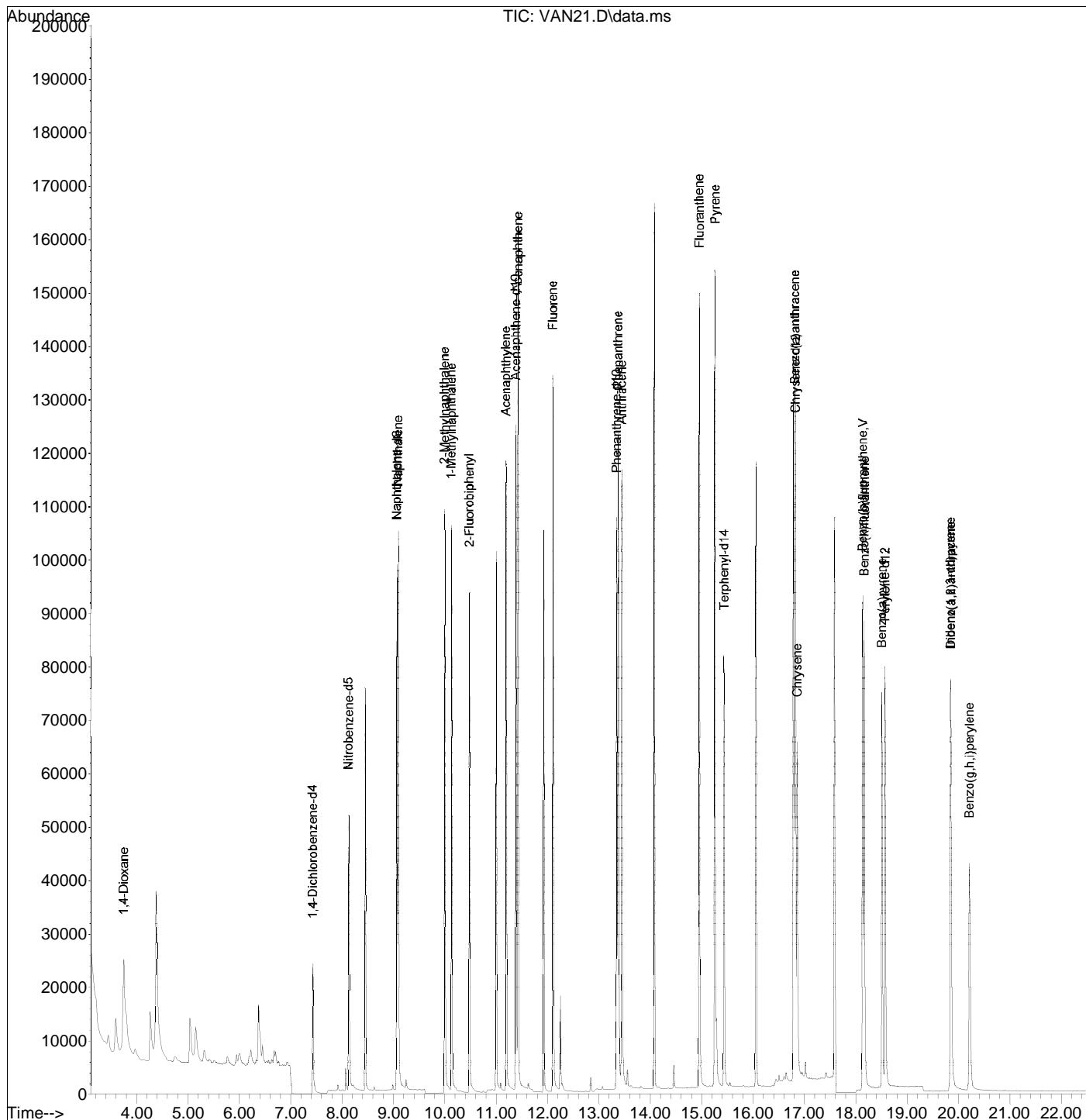
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.747	88	26670m	3.2482	ug/mL	
4) Nitrobenzene-d5	8.129	82	29590	0.9693	ug/mL	# 77
5) Naphthalene	9.093	128	80124	0.9208	ug/mL	94
6) 2-Methylnaphthalene	10.000	142	59124	0.8565	ug/mL	96
7) 1-Methylnaphthalene	10.131	142	54584	0.9088	ug/mL	98
9) 2-Fluorobiphenyl	10.476	172	65490	0.7058	ug/mL	93
10) Acenaphthylene	11.191	152	87237	0.9712	ug/mL	95
11) Acenaphthene	11.419	154	53254	0.9191	ug/mL	98
12) Fluorene	12.104	166	64764	0.9006	ug/mL	97
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.370	178	92493	0.9243	ug/mL	98
16) Anthracene	13.441	178	91626	0.9748	ug/mL	97
17) Fluoranthene	14.950	202	104398	0.8620	ug/mL	97
19) Pyrene	15.251	202	105790	1.0202	ug/mL	100
20) Terphenyl-d14	15.430	244	70217	0.7949	ug/mL	82
21) Benzo(a)anthracene	16.811	228	84705	0.8802	ug/mL	97
22) Chrysene	16.855	228	46019	0.5093	ug/mL	95
24) Benzo(b)fluoranthene	18.131	252	76412	0.8334	ug/mL	96
25) Benzo(k)fluoranthene	18.161	252	77495	0.8963	ug/mL	97
26) Benzo(a)pyrene	18.507	252	66852	0.8550	ug/mL	96
27) Indeno(1,2,3-cd)pyrene	19.844	276	58762	0.6951	ug/mL	# 33
28) Dibenz(a,h)anthracene	19.847	278	30029	0.4321	ug/mL	# 88
29) Benzo(g,h,i)perylene	20.210	276	50176	0.7436	ug/mL	# 90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\012319\
 Data File : VAN21.D
 Acq On : 23 Jan 2019 8:35 pm
 Operator :
 Sample : bsd,qc962227
 Misc : 267157,1,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 24 12:21:28 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Wed Jan 23 11:15:51 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\012319\
 Data File : VAN21.D
 Acq On : 23 Jan 2019 8:35 pm
 Operator :
 Sample : bsd,qc962227
 Misc : 267157,1,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 24 12:21:28 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Wed Jan 23 11:15:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.429	152	22352	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.063	136	89176	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.383	164	50594	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.342	188	100017	1.0000	ug/mL	0.00
18) Chrysene-d12	16.821	240	77276	1.0000	ug/mL	0.00
23) Perylene-d12	18.566	264	66593	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.745	88	28238m	3.5084	ug/mL	
4) Nitrobenzene-d5	8.126	82	31799	1.0613	ug/mL	79
5) Naphthalene	9.091	128	86307	1.0105	ug/mL	94
6) 2-Methylnaphthalene	9.996	142	63961	0.9440	ug/mL	97
7) 1-Methylnaphthalene	10.127	142	59106	1.0026	ug/mL	93
9) 2-Fluorobiphenyl	10.477	172	71516	0.7831	ug/mL	93
10) Acenaphthylene	11.191	152	93140	1.0536	ug/mL	94
11) Acenaphthene	11.423	154	57627	1.0106	ug/mL	96
12) Fluorene	12.103	166	69531	0.9824	ug/mL	99
14) _Pentachlorophenol	0.000	266	0	N.D.		
15) Phenanthrene	13.371	178	99194	1.0290	ug/mL	98
16) Anthracene	13.442	178	95580	1.0556	ug/mL	98
17) Fluoranthene	14.951	202	114312	0.9798	ug/mL	97
19) Pyrene	15.252	202	112611	1.1111	ug/mL	100
20) Terphenyl-d14	15.431	244	76260	0.8832	ug/mL	82
21) Benzo(a)anthracene	16.806	228	90330	0.9603	ug/mL	98
22) Chrysene	16.856	228	49909	0.5651	ug/mL	95
24) Benzo(b)fluoranthene	18.130	252	81604	0.9379	ug/mL	96
25) Benzo(k)fluoranthene	18.160	252	82525	1.0059	ug/mL	96
26) Benzo(a)pyrene	18.506	252	68652	0.9253	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.839	276	61774	0.7702	ug/mL	# 34
28) Dibenz(a,h)anthracene	19.845	278	30930	0.4691	ug/mL	# 88
29) Benzo(g,h,i)perylene	20.208	276	53302	0.8325	ug/mL	# 89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Initial Calibration Raw Data

ENTHALPY DFTPP TUNE FOR 306574 MSSIM Water
EPA 8270C

Inst : MSBNA03 Run Name : TUN IDF : 1.0
Seqnum : 529010667006 File : va706 Time : 07-JAN-2019 12:23
Caltype : DFTPP/PEM

Standards: S39051

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	320078	44.24	
68	< 2% of mass 69	0	0.00	
69		336237	100.00	
70	< 2% of mass 69	271	0.08	
127	40% - 60% of mass 198	359594	49.70	
197	< 1% of mass 198	0	0.00	
198		723541	100.00	
199	5% - 9% of mass 198	51725	7.15	
275	10% - 30% of mass 198	211776	29.27	
365	> 1% of mass 198	21656	2.99	
441	Present, < mass 443	71496	81.18	
442	> 40% and < 100% of mass 198	446314	61.68	
443	17% - 23% of mass 442	88066	19.73	

ECI 01/07/19 [4,4'-DDT]: Picked or reassigned peak.

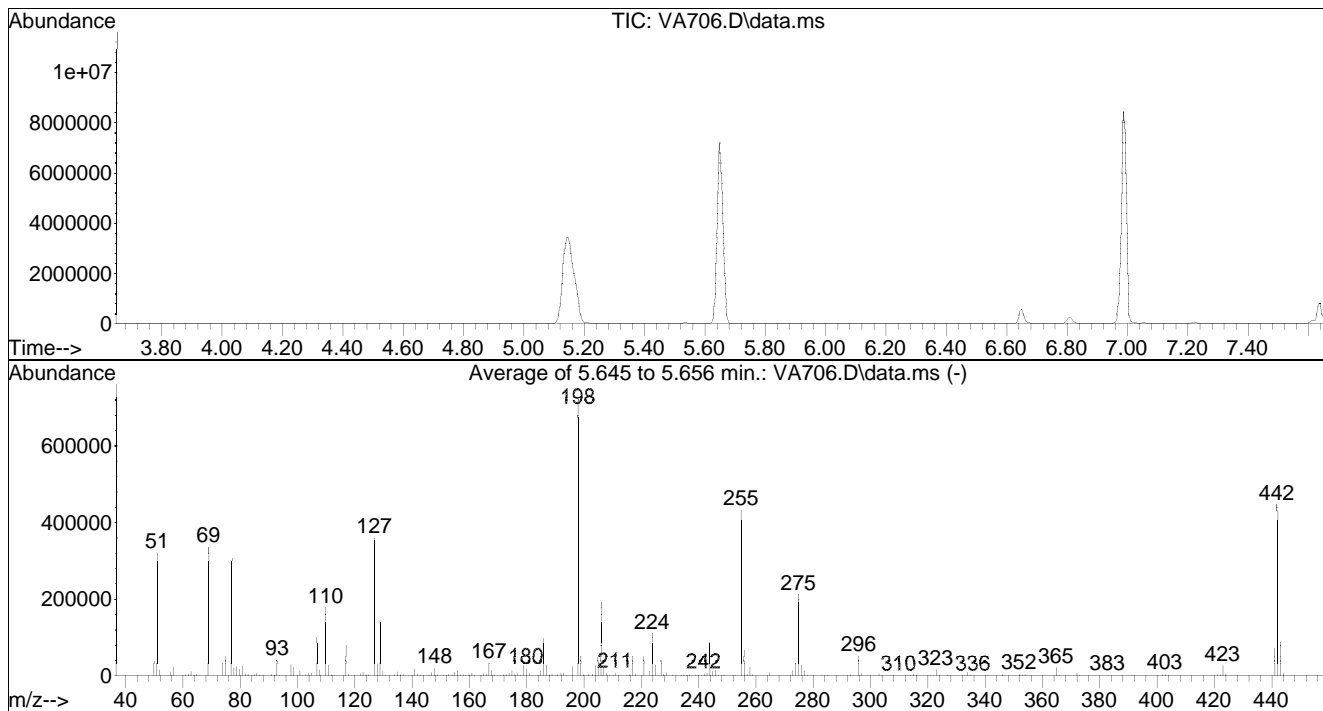
ECI 01/07/19 [4,4'-DDD]: Picked or reassigned peak.

Analyst: ECI Date: 01/07/19 Reviewer: LW Date: 01/08/19

Data Path : G:\csinput.net\DATA\010719\
 Data File : VA706.D
 Acq On : 7 Jan 2019 12:23 pm
 Operator :
 Sample : tun,s39051
 Misc : tun
 ALS Vial : 4 Sample Multiplier: 1

Integration File: normal.p

Method : C:\msdchem\1\METHODS\DFTPP03.M
 Title : MSBNA03 BNA DFTPP/PEM
 Last Update : Thu Jan 03 15:42:45 2019



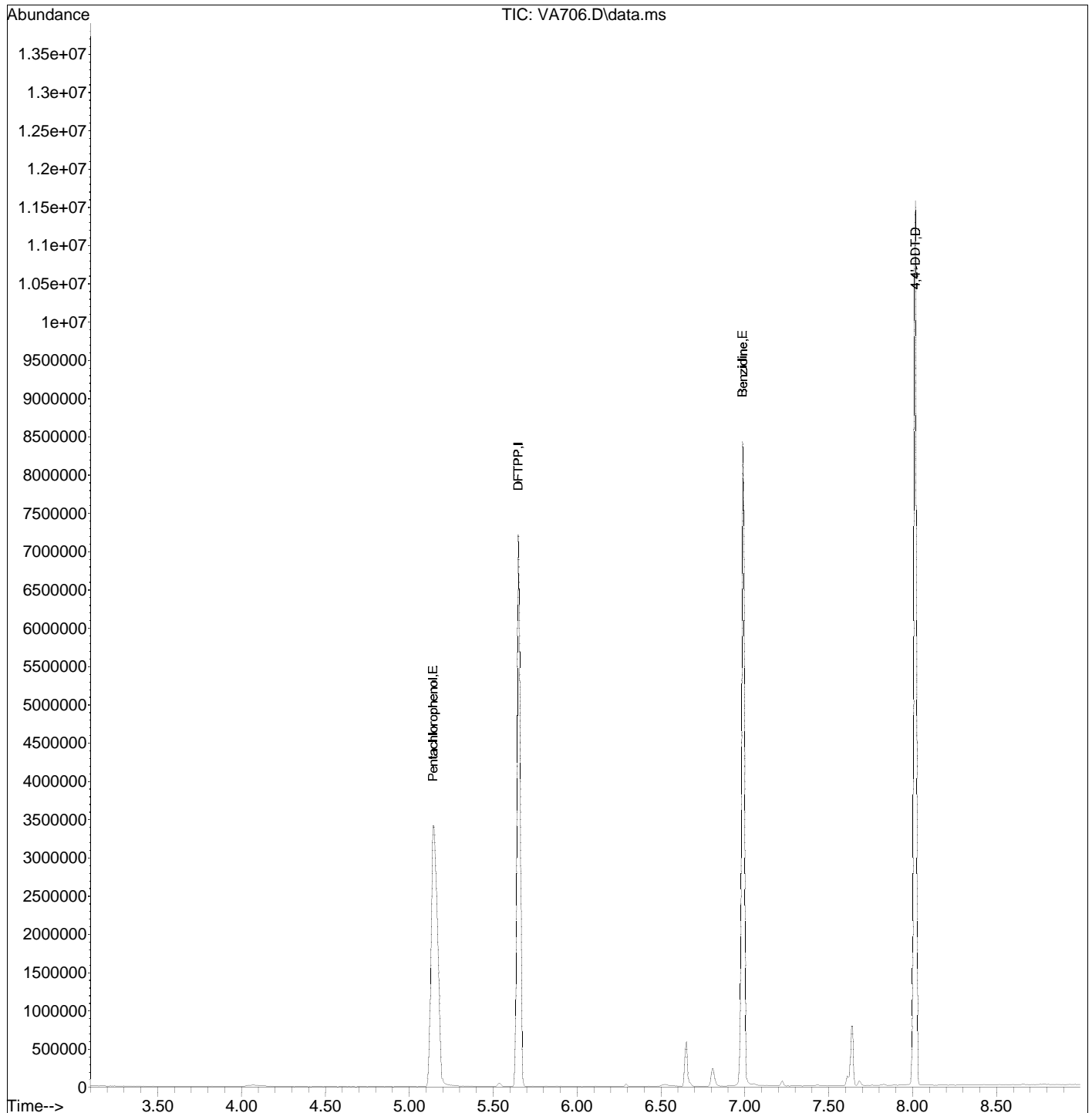
AutoFind: Scans 447, 448, 449; Background Corrected with Scan 440

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.2	320078	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.5	336237	PASS
70	69	0.00	2	0.1	271	PASS
127	198	40	60	49.7	359594	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	723541	PASS
199	198	5	9	7.1	51725	PASS
275	198	10	30	29.3	211776	PASS
365	198	1	100	3.0	21656	PASS
441	443	0.01	100	81.2	71496	PASS
442	198	40	100	61.7	446314	PASS
443	442	17	23	19.7	88066	PASS

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
Data File : VA706.D
Acq On : 7 Jan 2019 12:23 pm
Operator :
Sample : tun,s39051
Misc : tun
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 07 12:35:24 2019
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Thu Jan 03 15:42:45 2019
Response via : Continuing Cal File: G:\msbna03\010319\VA209.D



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA706.D
 Acq On : 7 Jan 2019 12:23 pm
 Operator :
 Sample : tun,s39051
 Misc : tun
 ALS Vial : 4 Sample Multiplier: 1

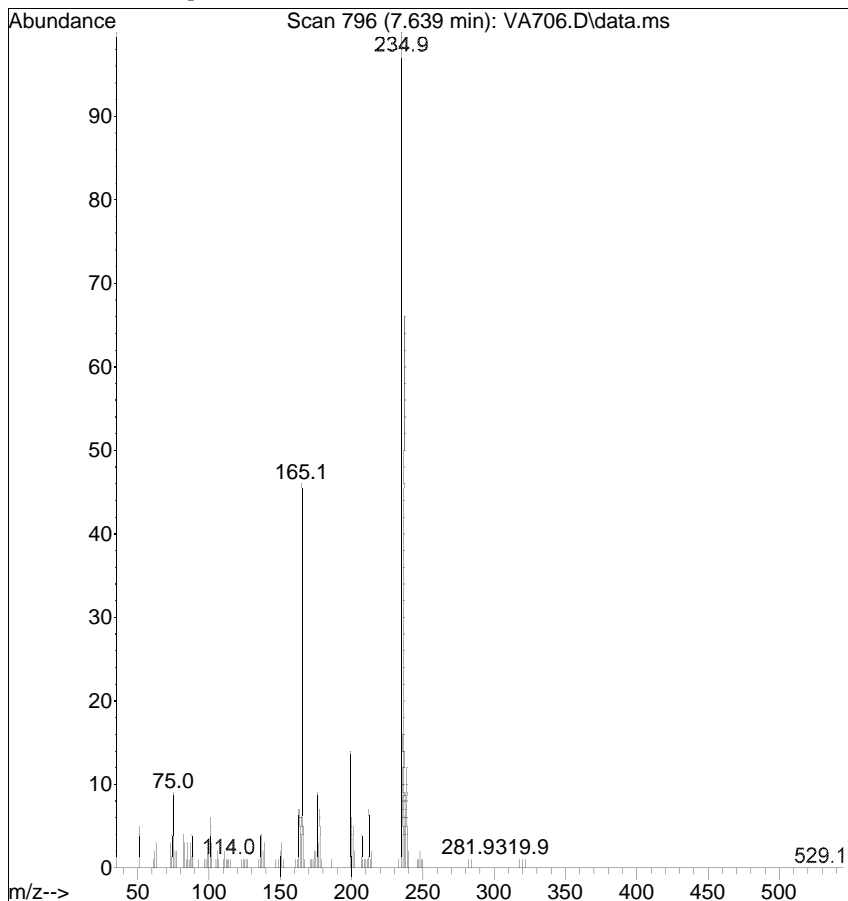
Quant Time: Jan 07 12:35:24 2019
 Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
 Quant Title : MSBNA03 BNA DFTPP/PEM
 QLast Update : Thu Jan 03 15:42:45 2019
 Response via : Continuing Cal File: G:\msbna03\010319\VA209.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.651	198	1113881	50.0000	ug/mL	0.38
4) 4,4'-DDT	8.016	235	2420961m	50.0000	ug/mL	0.41

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
1) Pentachlorophenol	5.142	266	1229933	52.3927	ug/mL	96
3) Benzidine	6.988	184	3826057	40.7710	ug/mL	90
5) 4,4'-DDE	6.651	246	2234	No CC lev	#	
6) 4,4'-DDD	7.639	235	192595m	No CC lev		

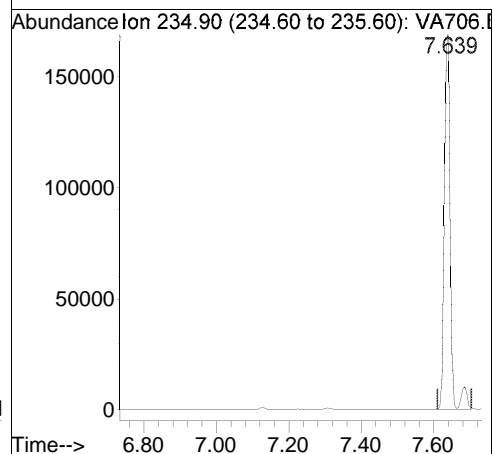
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

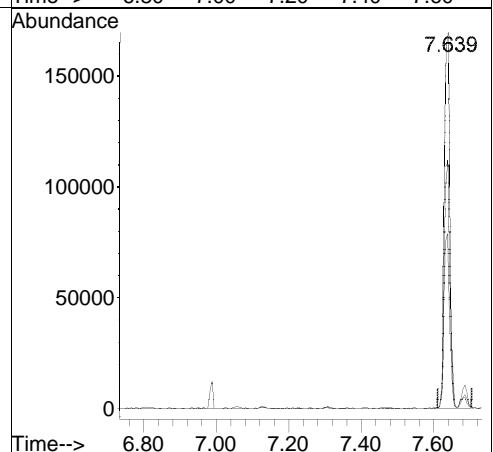
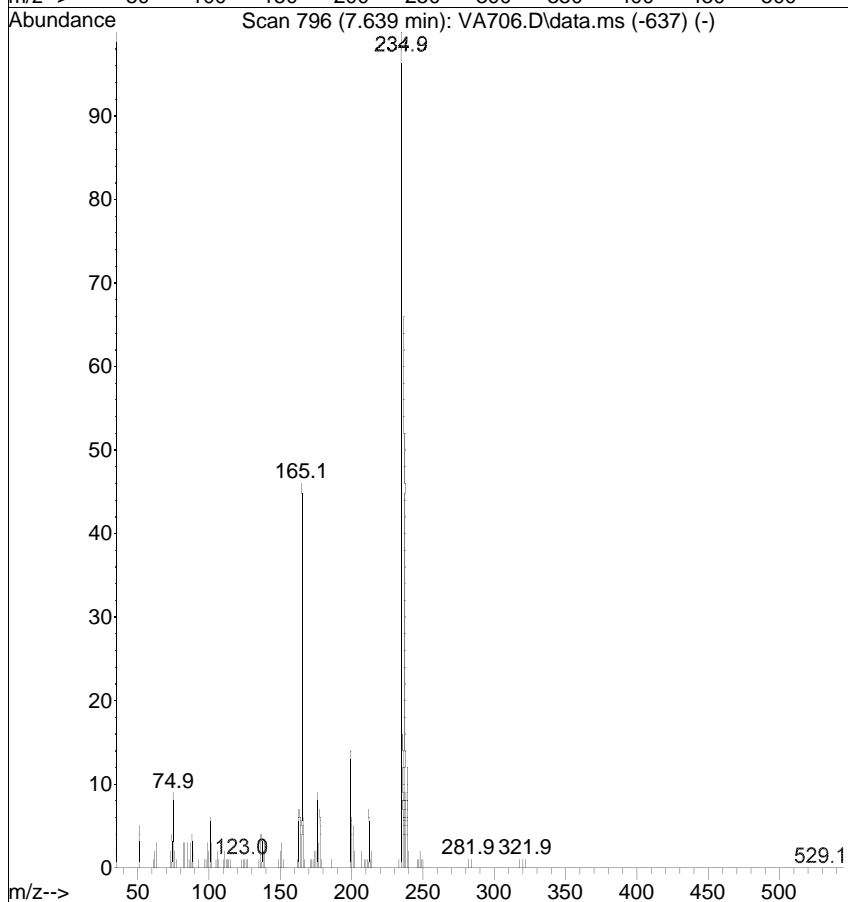


#6
 4,4'-DDD
 Concen: N.D. m
 RT: 7.639 min Scan# 796
 Delta R.T. 0.406 min
 Lab File: VA706.D
 Acq: 7 Jan 2019 12:23 pm

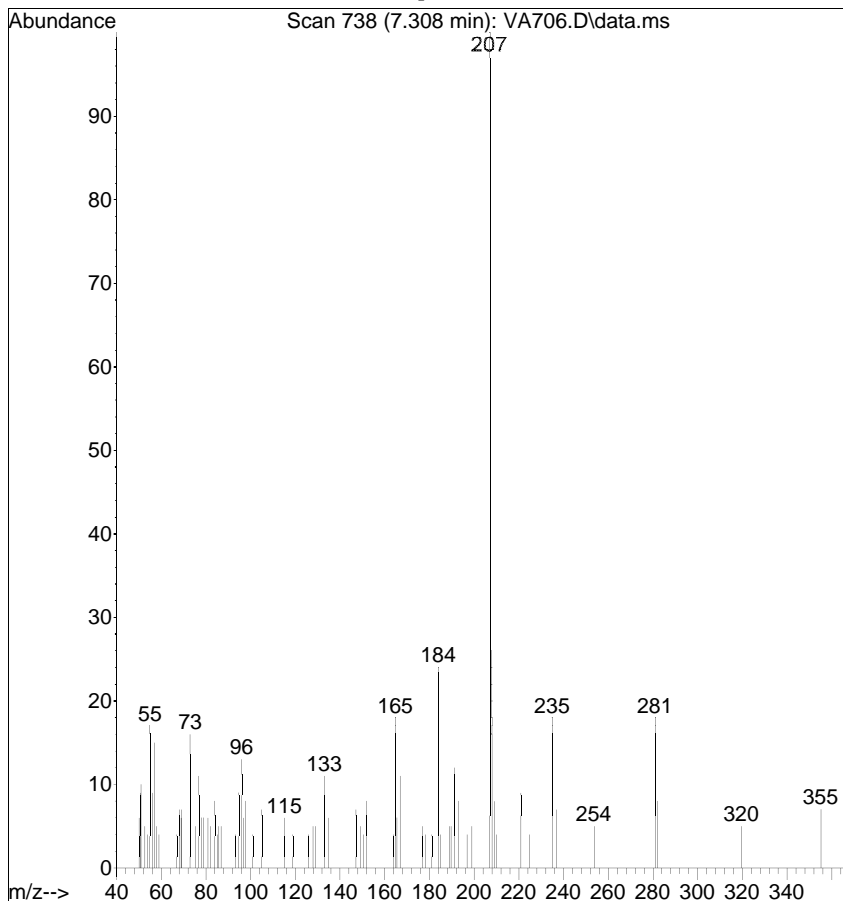
Tgt Ion	Ratio	Lower	Upper
235	100		
237	66.2	44.1	84.1
165	46.3	30.5	70.5



Ref

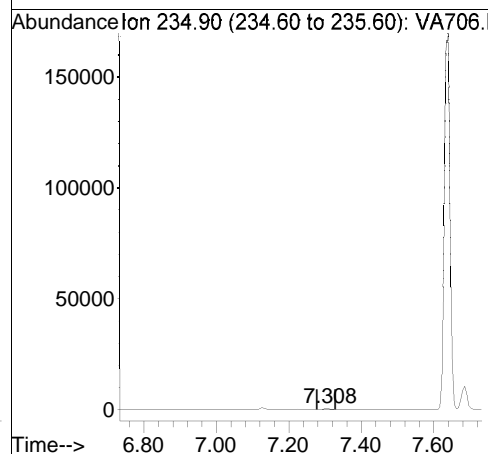


Raw

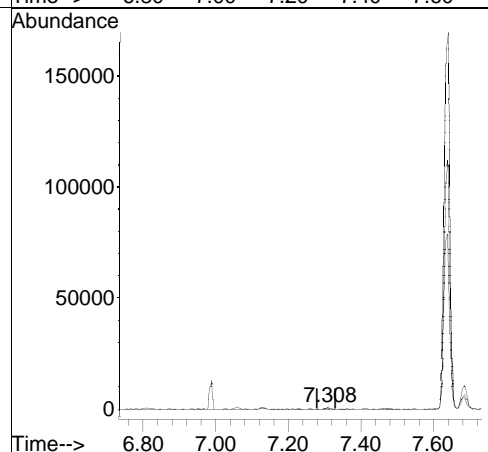
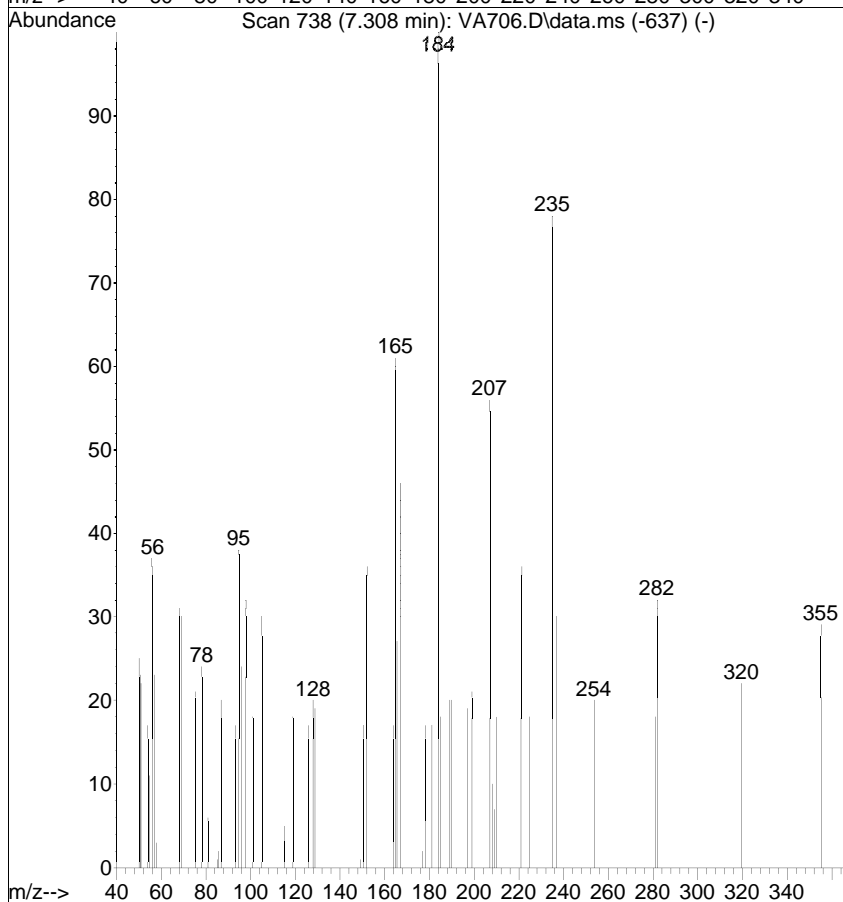


#6
 4,4'-DDD
 Concen: N.D.
 RT: 7.308 min Scan# 738
 Delta R.T. 0.075 min
 Lab File: VA706.D
 Acq: 7 Jan 2019 12:23 pm

Tgt Ion	Resp	Lower	Upper
235	100		
237	38.7	44.1	84.1#
165	134.7	30.5	70.5#



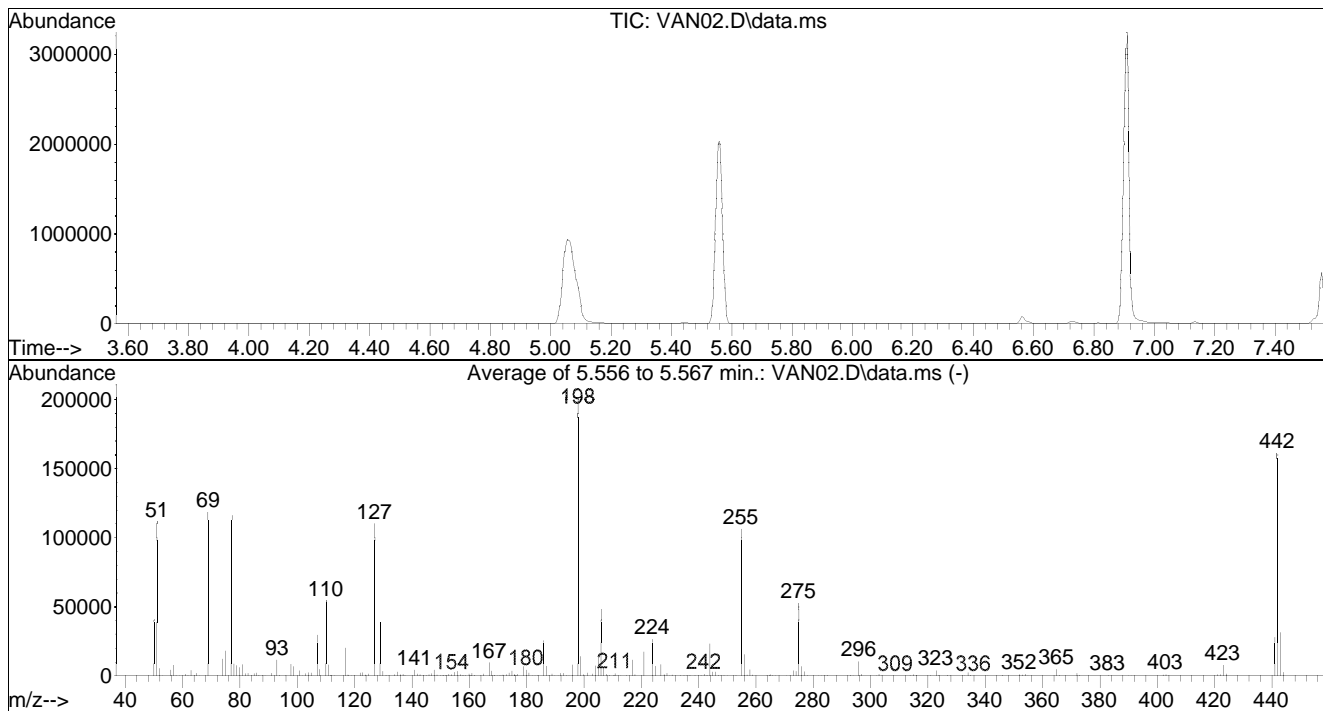
Ref



Data Path : G:\csinput.net\DATA\012319\
 Data File : VAN02.D
 Acq On : 23 Jan 2019 10:23 am
 Operator :
 Sample : tun,s38424
 Misc : tune
 ALS Vial : 2 Sample Multiplier: 1

Integration File: normal.p

Method : C:\msdchem\1\METHODS\DFTPP03.M
 Title : MSBNA03 BNA DFTPP/PEM
 Last Update : Wed Jan 09 11:08:08 2019



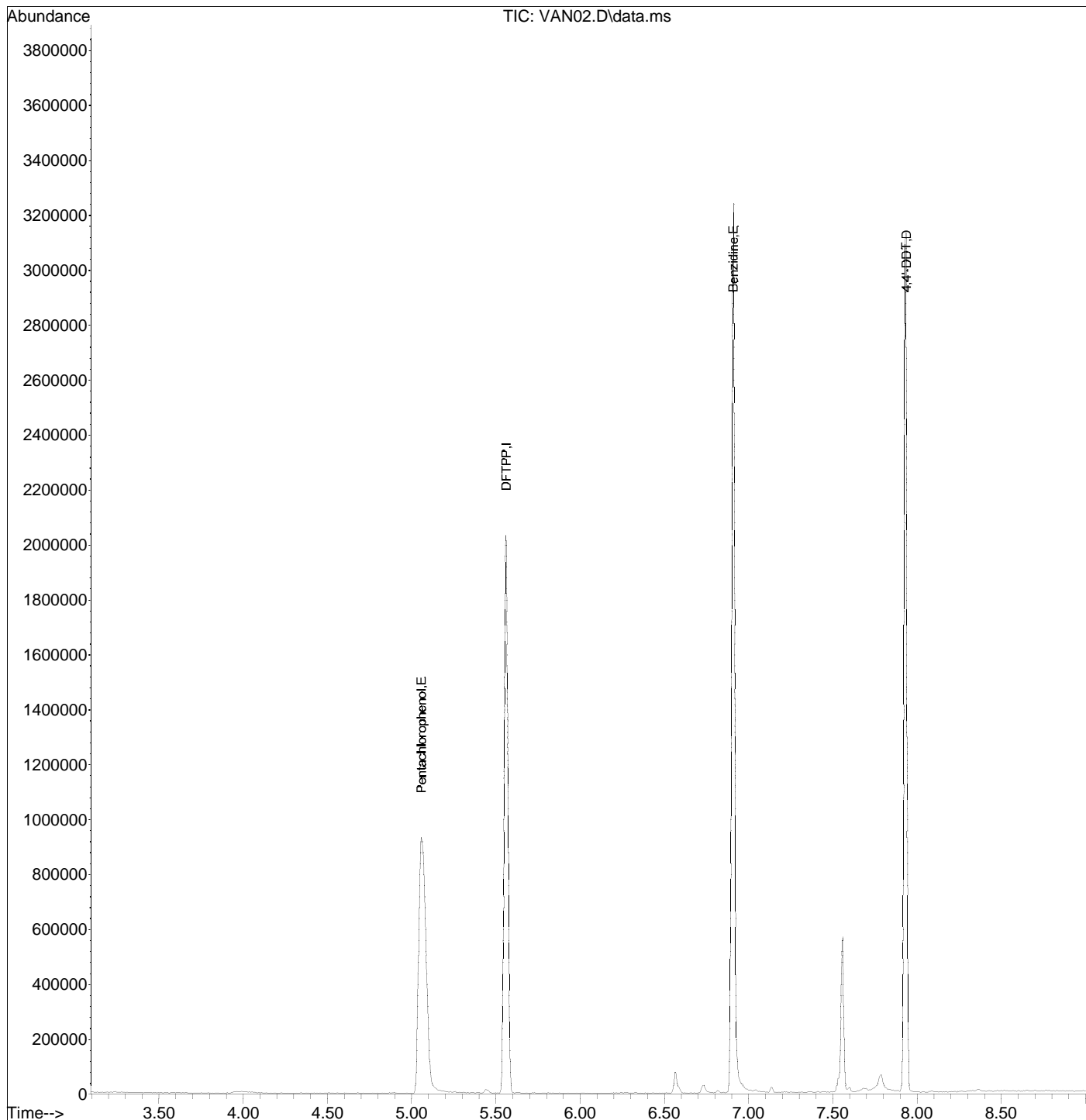
AutoFind: Scans 432, 433, 434; Background Corrected with Scan 425

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.5	111480	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	59.1	118645	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	54.7	109893	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	200746	PASS
199	198	5	9	7.1	14166	PASS
275	198	10	30	26.1	52442	PASS
365	198	1	100	2.4	4876	PASS
441	443	0.01	100	88.8	27821	PASS
442	198	40	100	80.4	161344	PASS
443	442	17	23	19.4	31325	PASS

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\012319\
Data File : VAN02.D
Acq On : 23 Jan 2019 10:23 am
Operator :
Sample : tun,s38424
Misc : tune
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 23 10:32:46 2019
Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Wed Jan 09 11:08:08 2019
Response via : Continuing Cal File: G:\msbna03\010919\VA902.D



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\012319\
 Data File : VAN02.D
 Acq On : 23 Jan 2019 10:23 am
 Operator :
 Sample : tun,s38424
 Misc : tune
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 23 10:32:46 2019
 Quant Method : C:\msdchem\1\METHODS\DFTPP03.M
 Quant Title : MSBNA03 BNA DFTPP/PEM
 QLast Update : Wed Jan 09 11:08:08 2019
 Response via : Continuing Cal File: G:\msbna03\010919\VA902.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.562	198	348233	50.0000	ug/mL	-0.08
4) 4,4'-DDT	7.933	235	734258	50.0000	ug/mL	-0.09

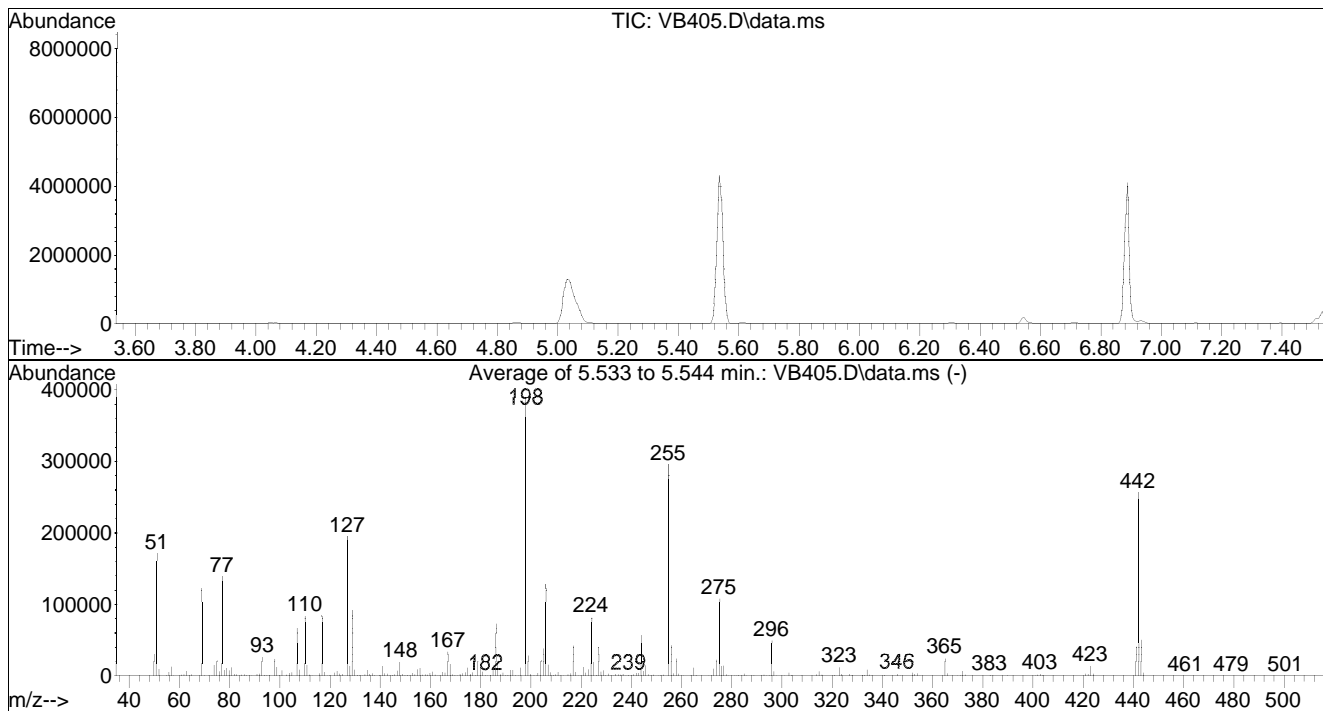
Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
1) Pentachlorophenol	5.059	266	397953	32.0563	ug/mL	97
3) Benzidine	6.910	184	1754299	58.0874	ug/mL	92
5) 4,4'-DDE	7.139	246	1941	No CC lev	#	
6) 4,4'-DDD	7.556	235	159415	No CC lev		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : G:\csinput.net\DATA\020419\
 Data File : VB405.D
 Acq On : 4 Feb 2019 11:00 am
 Operator :
 Sample : tun,s39564
 Misc : tune
 ALS Vial : 5 Sample Multiplier: 1

Integration File: normal.p

Method : C:\msdchem\1\METHODS\DFTPP03.M
 Title : MSBNA03 BNA DFTPP/PEM
 Last Update : Wed Jan 09 11:08:08 2019



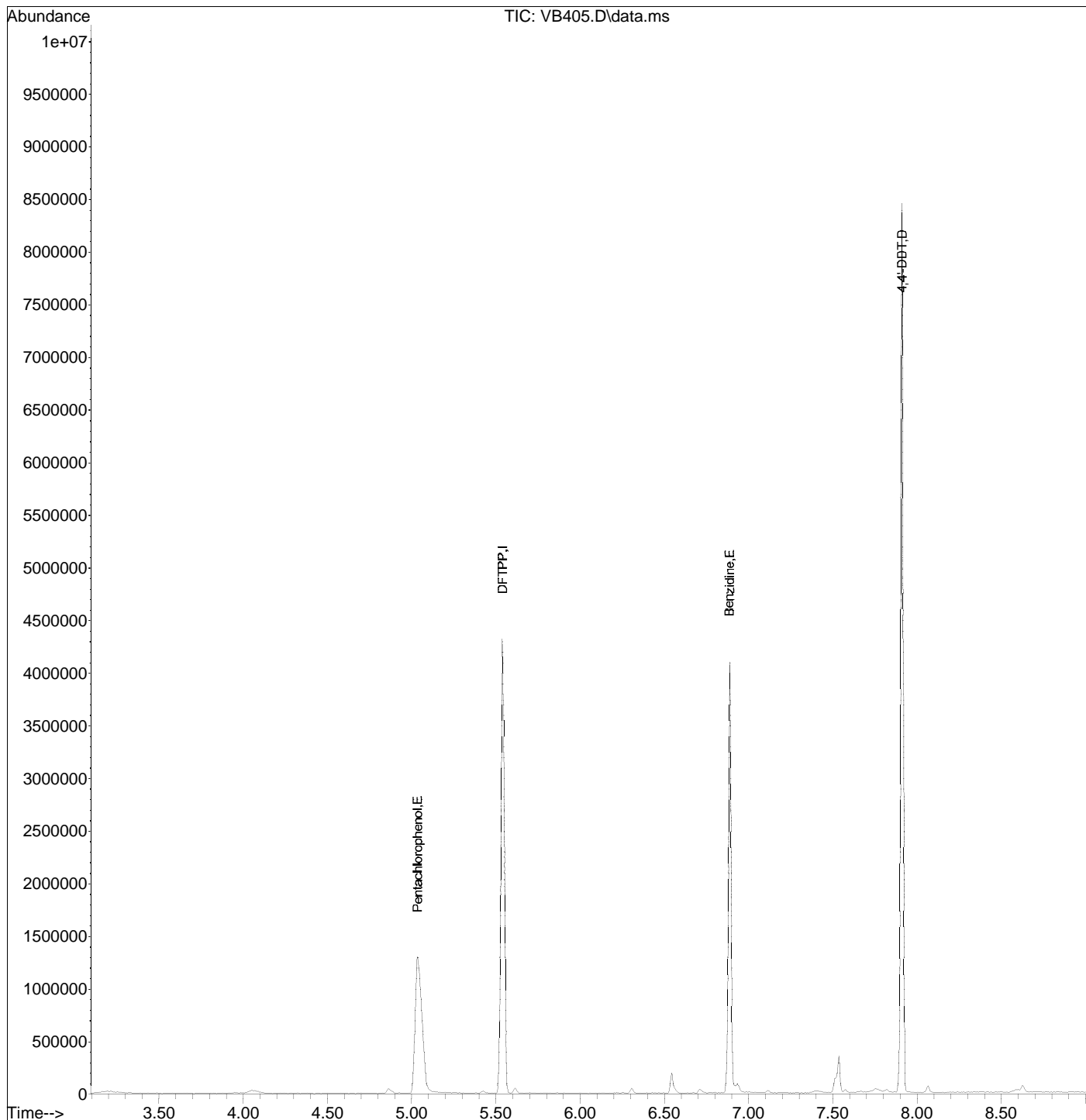
AutoFind: Scans 428, 429, 430; Background Corrected with Scan 422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.0	170853	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	31.5	122125	PASS
70	69	0.00	2	0.7	841	PASS
127	198	40	60	50.0	194154	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	387946	PASS
199	198	5	9	7.2	27805	PASS
275	198	10	30	27.9	108122	PASS
365	198	1	100	6.3	24394	PASS
441	443	0.01	100	82.1	41717	PASS
442	198	40	100	66.0	256042	PASS
443	442	17	23	19.8	50797	PASS

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\020419\
Data File : VB405.D
Acq On : 4 Feb 2019 11:00 am
Operator :
Sample : tun,s39564
Misc : tune
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 04 14:47:08 2019
Quant Method : G:\msbna03\020419\DFTPP03.M
Quant Title : MSBNA03 BNA DFTPP/PEM
QLast Update : Wed Jan 09 11:08:08 2019
Response via : Continuing Cal File: G:\msbna03\010919\VA902.D



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\020419\
 Data File : VB405.D
 Acq On : 4 Feb 2019 11:00 am
 Operator :
 Sample : tun,s39564
 Misc : tune
 ALS Vial : 5 Sample Multiplier: 1

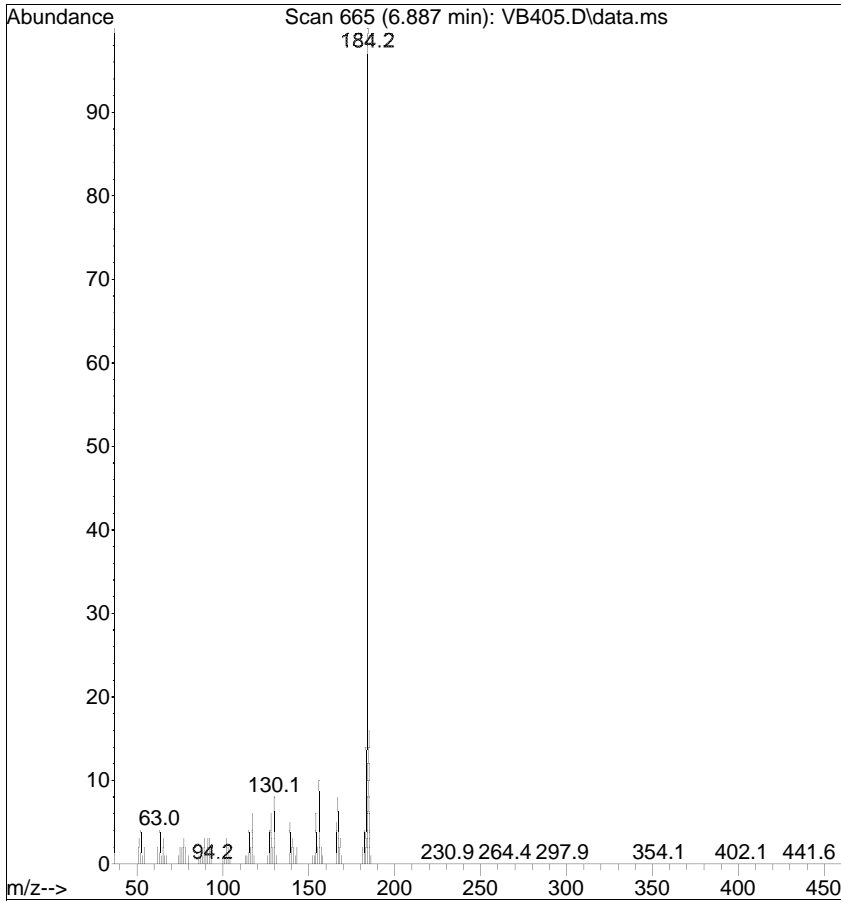
Quant Time: Feb 04 14:47:08 2019
 Quant Method : G:\msbna03\020419\DFTPP03.M
 Quant Title : MSBNA03 BNA DFTPP/PEM
 QLast Update : Wed Jan 09 11:08:08 2019
 Response via : Continuing Cal File: G:\msbna03\010919\VA902.D

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
2) DFTPP	5.539	198	606919	50.0000	ug/mL	-0.10
4) 4,4'-DDT	7.910	235	1273671m	50.0000	ug/mL	-0.11

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
1) Pentachlorophenol	5.036	266	347384	27.9828	ug/mL	95
3) Benzidine	6.887	184	1522293m	28.9211	ug/mL	
5) 4,4'-DDE	6.545	246	1193	No CC lev		
6) 4,4'-DDD	7.533	235	55505m	No CC lev		

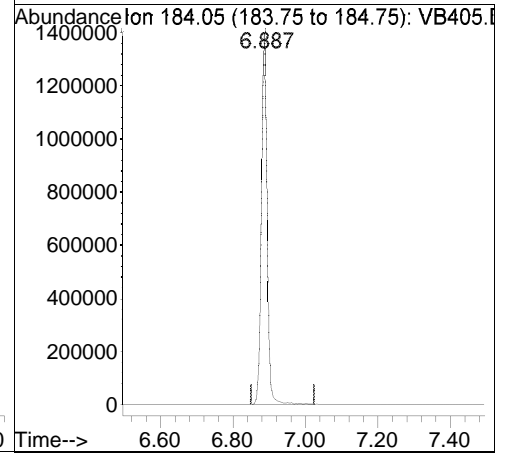
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

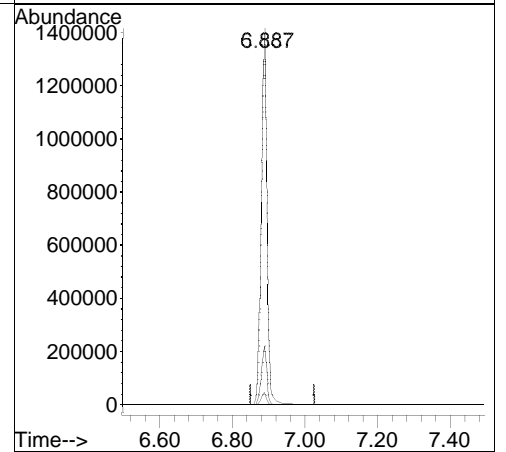
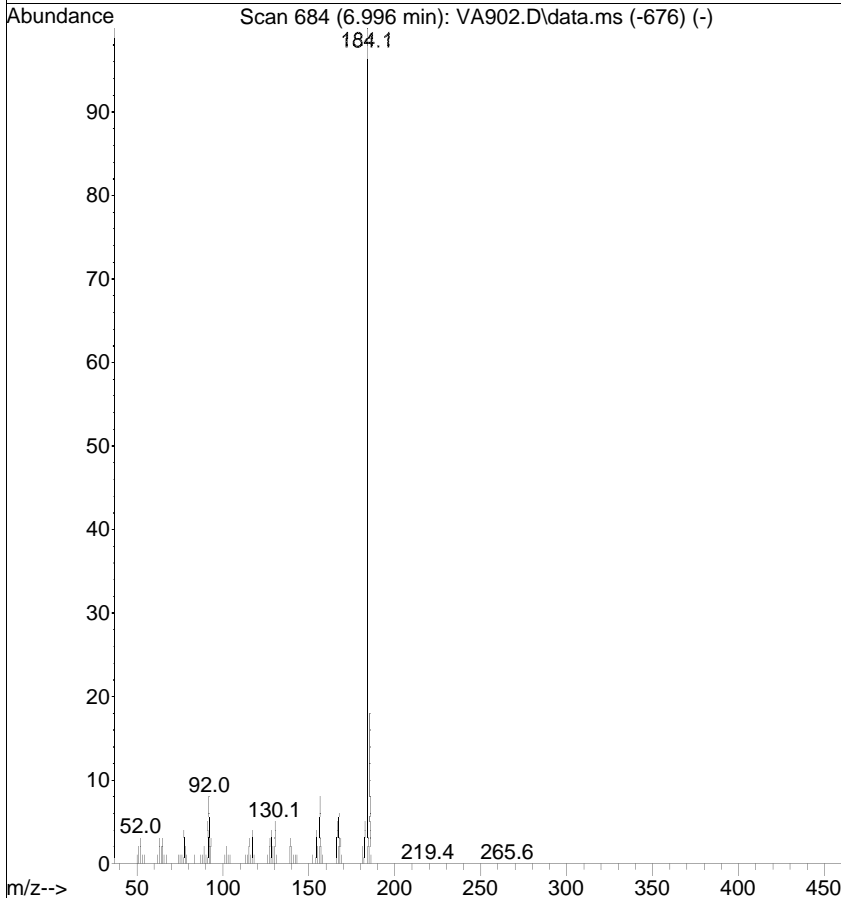


#3
Benzidine
Concen: 28.9211 ug/mL m
RT: 6.887 min Scan# 665
Delta R.T. -0.108 min
Lab File: VB405.D
Acq: 4 Feb 2019 11:00 am

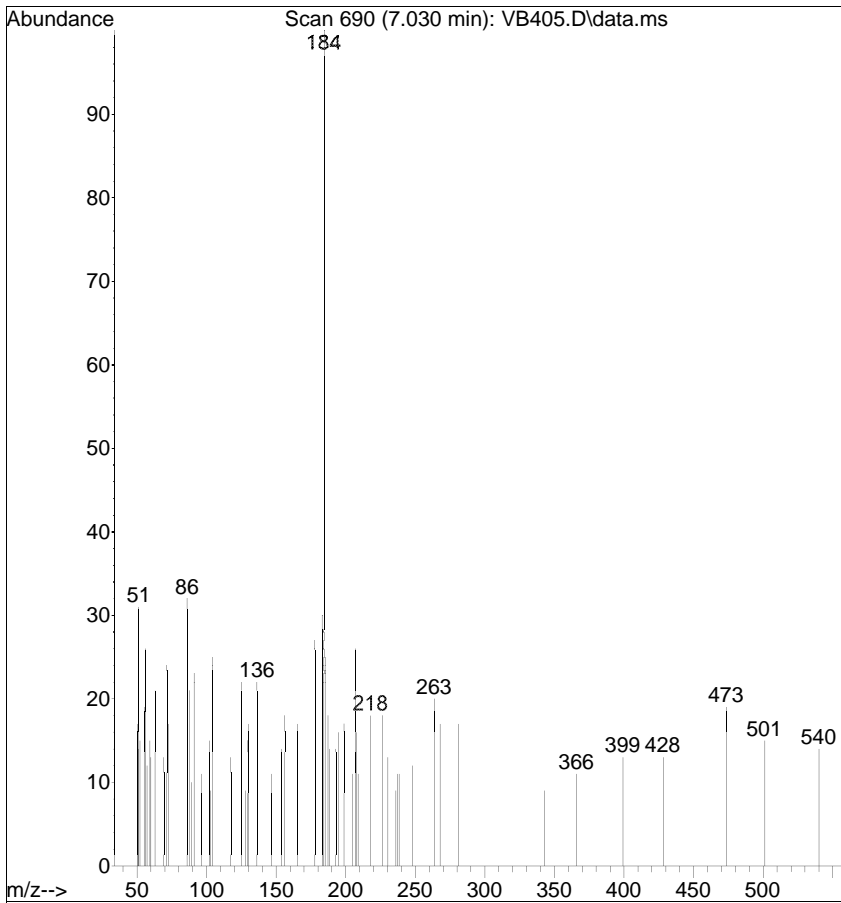
Tgt Ion	Resp	Lower	Upper
184	100		
92	3.5	0.0	25.0
185	15.7	0.0	34.1



Ref

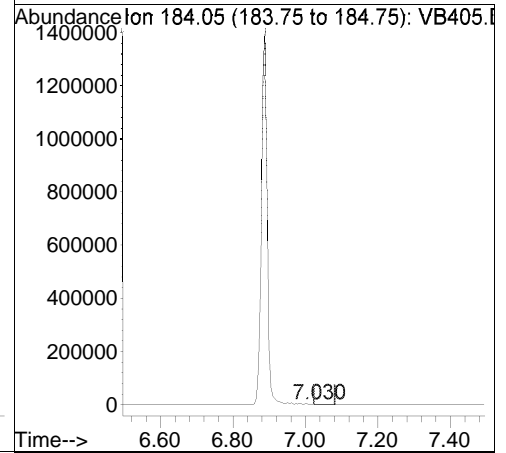


Raw

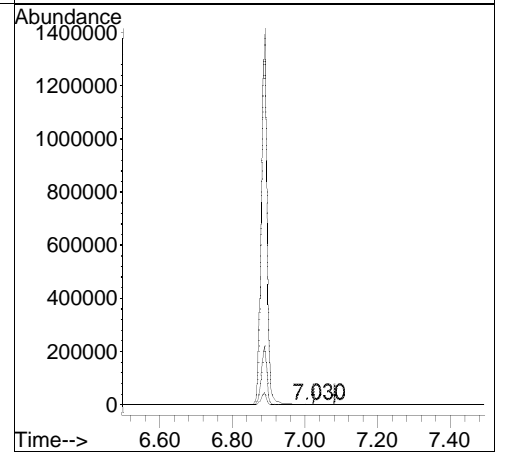
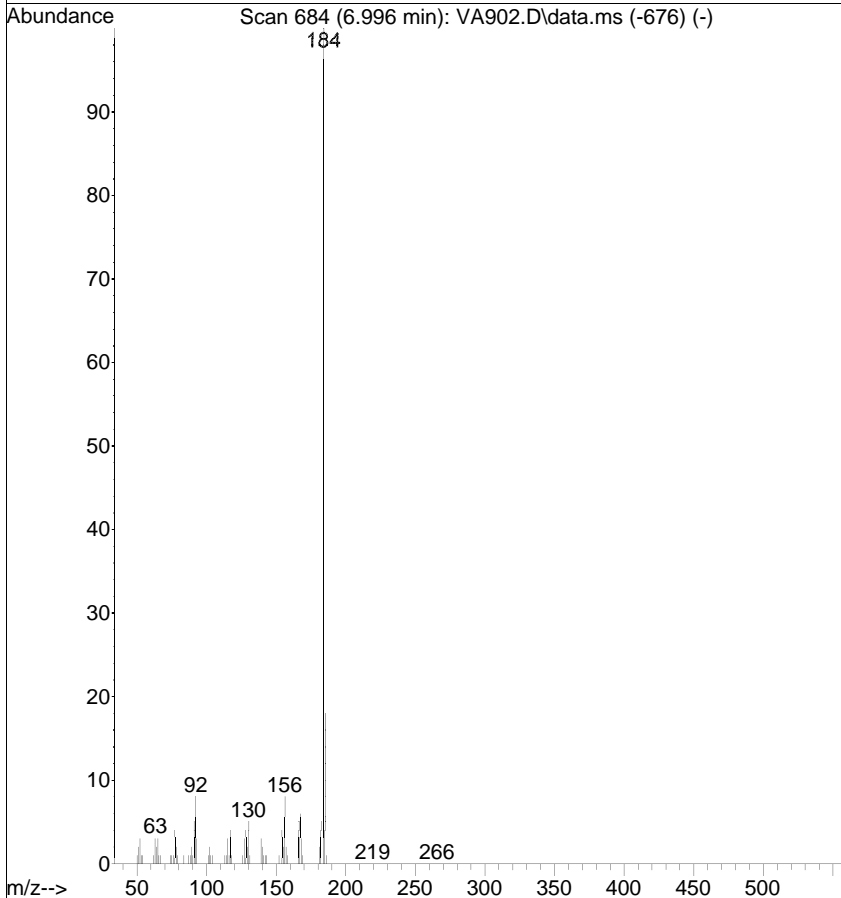


#3
 Benzidine
 Concen: 0.0750 ug/mL
 RT: 7.030 min Scan# 690
 Delta R.T. 0.034 min
 Lab File: VB405.D
 Acq: 4 Feb 2019 11:00 am

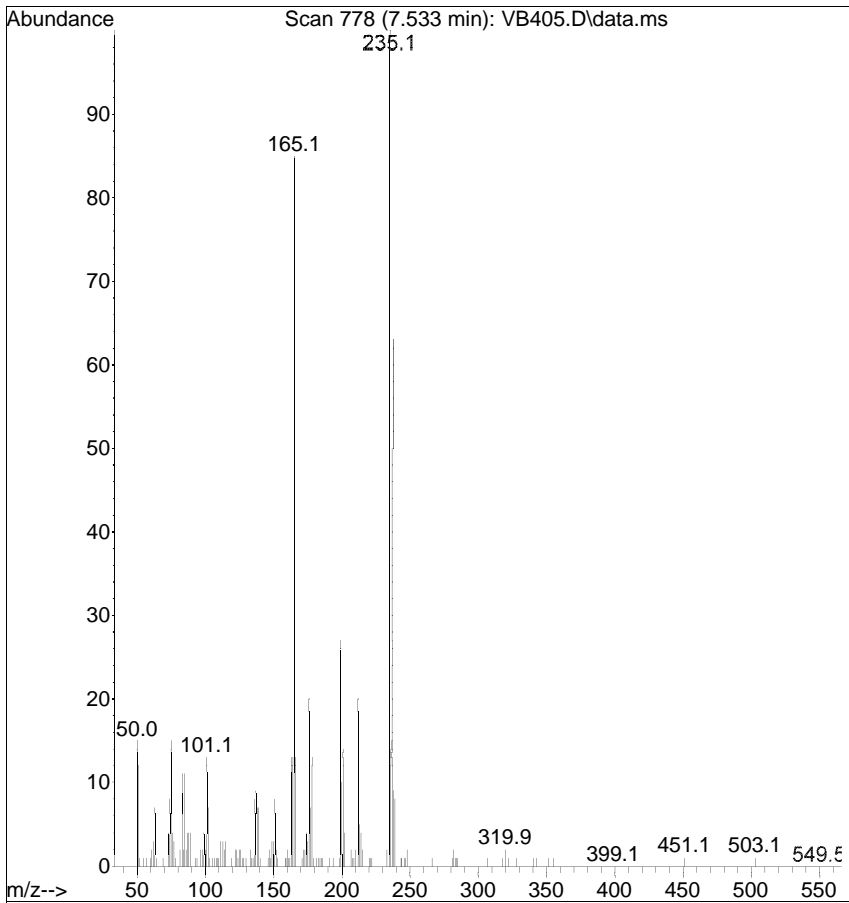
Tgt Ion	Resp	Lower	Upper
184	100		
92	0.0	0.0	25.0
185	25.0	0.0	34.1



Ref

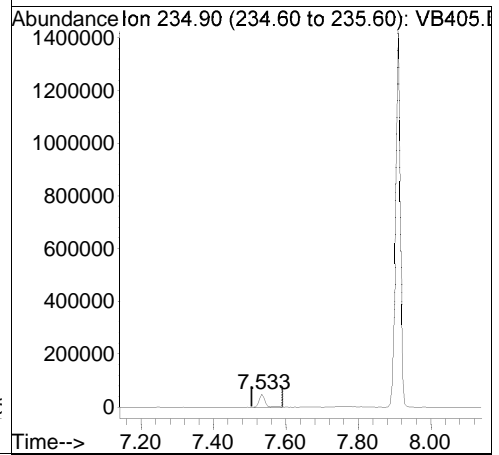


Raw

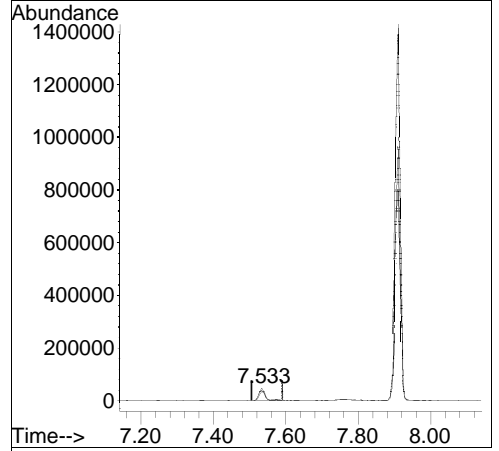
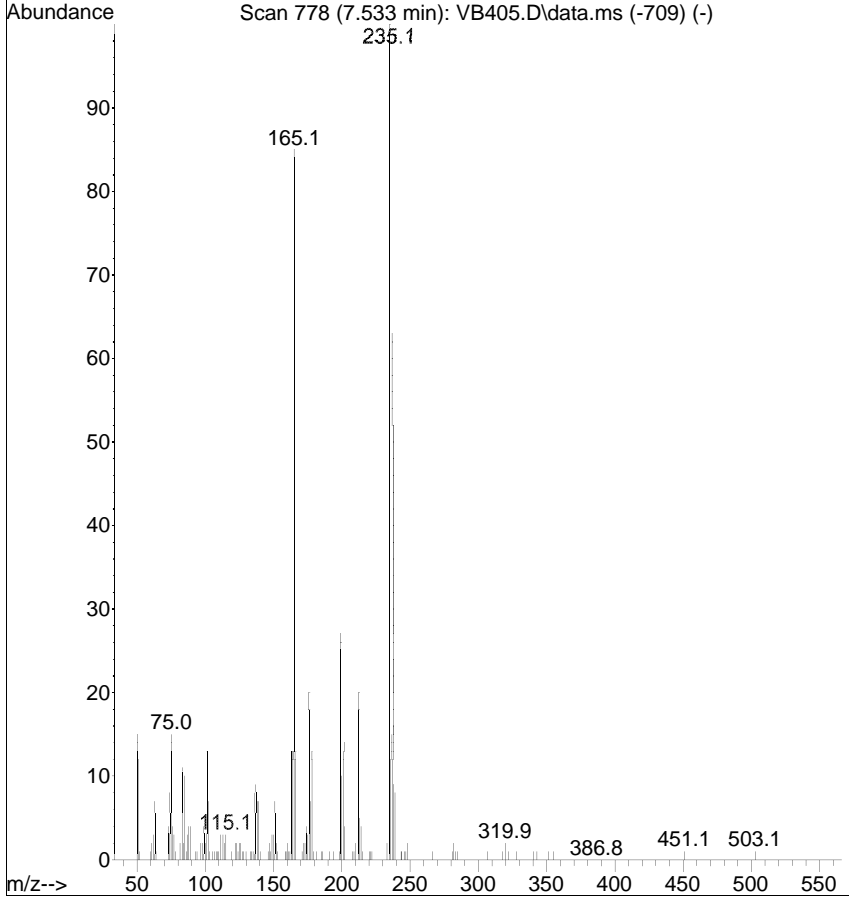


#6
 4,4'-DDD
 Concen: N.D. m
 RT: 7.533 min Scan# 778
 Delta R.T. -0.108 min
 Lab File: VB405.D
 Acq: 4 Feb 2019 11:00 am

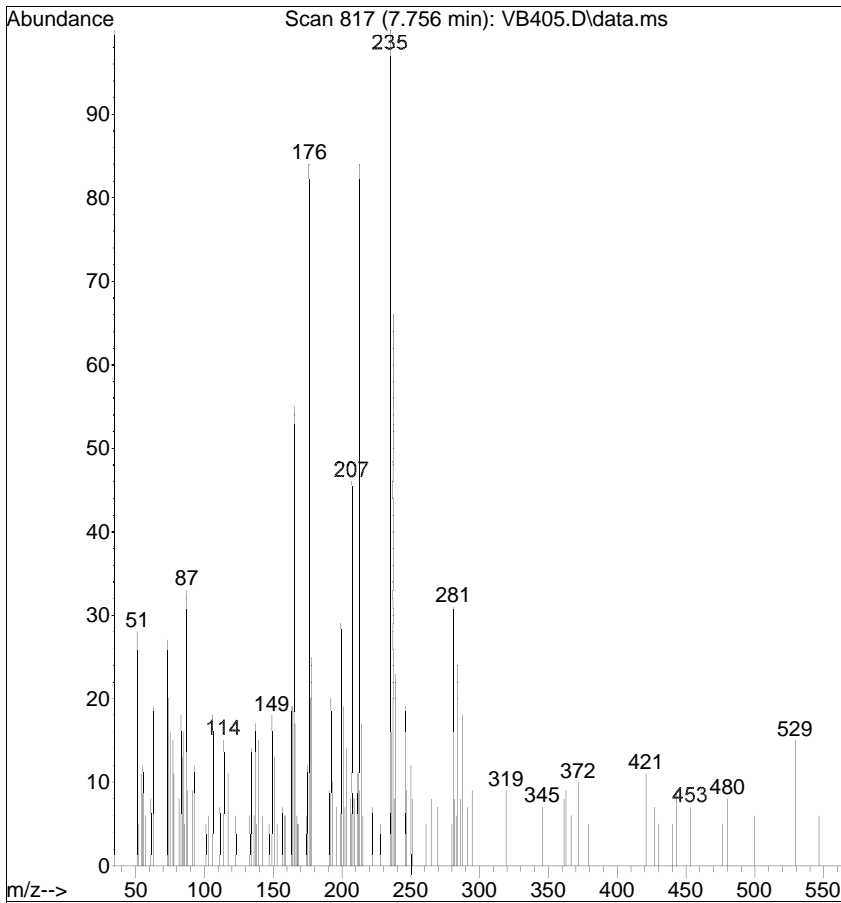
Tgt Ion	Ratio	Lower	Upper
235	100		
237	63.4	44.1	84.1
165	85.2	30.5	70.5#



Ref

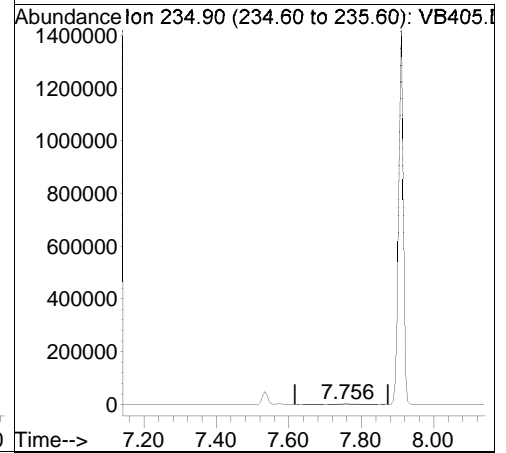


Raw

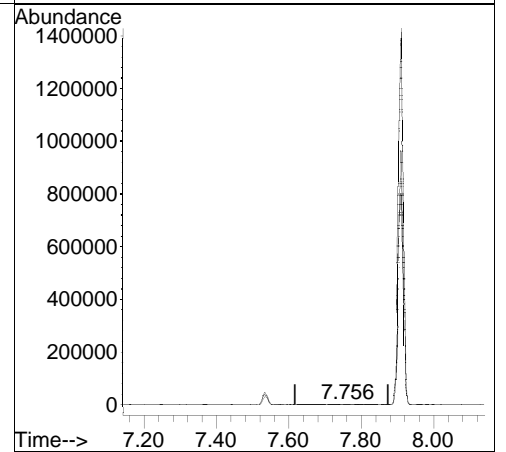
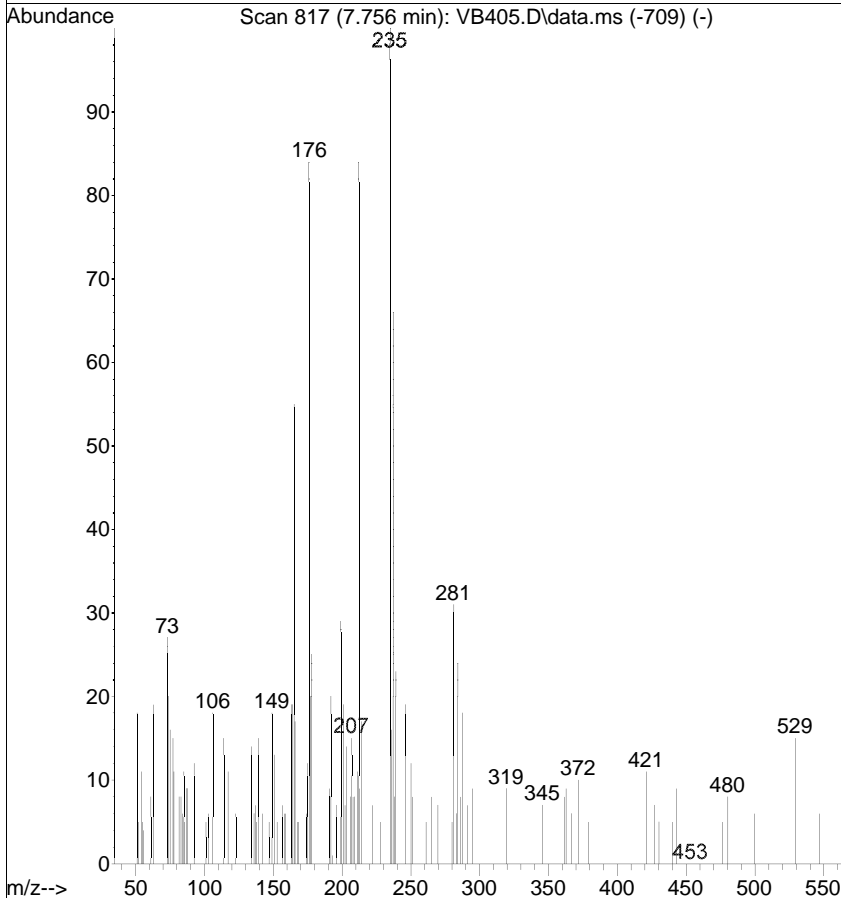


#6
 4,4'-DDD
 Concen: N.D.
 RT: 7.756 min Scan# 817
 Delta R.T. 0.114 min
 Lab File: VB405.D
 Acq: 4 Feb 2019 11:00 am

Tgt Ion	Ratio	Lower	Upper
235	100		
237	65.6	44.1	84.1
165	54.9	30.5	70.5



Ref



ENTHALPY INITIAL CALIBRATION FOR 306574 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA03
 Calnum : 529010667001
 Units : ug/mL

Name : 3PAHSIM
 Date : 07-JAN-2019 13:00
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	va707	529010667007	ICAL	07-JAN-2019 13:00	S38722
L2	va708	529010667008	ICAL	07-JAN-2019 13:32	S38723
L3	va709	529010667009	ICAL	07-JAN-2019 14:04	S38724
L4	va710	529010667010	ICAL	07-JAN-2019 14:35	S38725
L5	va711	529010667011	ICAL	07-JAN-2019 15:07	S38726
L6	va712	529010667012	ICAL	07-JAN-2019 15:39	S38727
L7	va713	529010667013	ICAL	07-JAN-2019 16:10	S38728

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r ² %RSD	Max %RSD	Min RF	Min r ²	Flg
Naphthalene	1.0393	0.9898	1.0004	0.9992	0.9489	0.8821	0.8449	AVRG		1.04406		0.9578	7	15	0.05	0.99	
Acenaphthylene	1.7728	1.7616	1.8277	1.8676	1.7767	1.6457	1.5790	AVRG		0.57231		1.7473	6	15	0.05	0.99	
Acenaphthene	1.1561	1.1533	1.1676	1.1903	1.1218	1.0581	1.0423	AVRG		0.88725		1.1271	5	15	0.05	0.99	
Fluorene	1.4807	1.4693	1.4610	1.4642	1.3775	1.2897	1.2497	AVRG		0.71486		1.3989	7	15	0.05	0.99	
Phenanthrene	1.0133	1.0234	1.0164	1.0122	0.9606	0.8789	0.8417	AVRG		1.03757		0.9638	8	15	0.05	0.99	
Anthracene	0.8987	0.9137	0.9369	0.9742	0.9385	0.8580	0.8170	AVRG		1.10461		0.9053	6	15	0.05	0.99	
Fluoranthene	1.2100	1.2280	1.2300	1.2327	1.1712	1.0717	1.0216	AVRG		0.85730		1.1664	7	15	0.05	0.99	
Pyrene	1.3761m	1.3566m	1.3607m	1.3832m	1.3291m	1.2070m	1.1680m	AVRG		0.76247		1.3115	7	15	0.05	0.99	
Benzo(a)anthracene	1.2245	1.2331	1.2728	1.2977	1.2421	1.1437	1.1065	AVRG		0.82156		1.2172	6	15	0.05	0.99	
Chrysene	1.1715	1.1831	1.1899	1.2220	1.1746	1.0598	0.9991	AVRG		0.87500		1.1429	7	15	0.05	0.99	
Benzo(b)fluoranthene	1.2680	1.2779	1.3355	1.3660	1.3534	1.2753	1.2694	AVRG		0.76541		1.3065	3	15	0.05	0.99	
Benzo(k)fluoranthene	1.2112	1.2649	1.2628	1.2893	1.2596	1.1852	1.1511	AVRG		0.81168		1.2320	4	15	0.05	0.99	
Benzo(a)pyrene	1.0654	1.0859	1.1256	1.1495	1.1616	1.1095	1.1011	AVRG		0.89758		1.1141	3	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.1631	1.1800	1.2209	1.2513	1.2292	1.1818	1.2050	AVRG		0.83024		1.2045	3	15	0.05	0.99	
Dibenz(a,h)anthracene	0.9440	0.9717	0.9890	1.0166	1.0145	0.9881	1.0071	AVRG		1.00995		0.9901	3	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9740	0.9705	0.9937	1.0017	0.9679	0.9139	0.9085	AVRG		1.04008		0.9615	4	15	0.05	0.99	
Nitrobenzene-d5	0.3388	0.3280	0.3384	0.3485	0.3420	0.3273	0.3290	AVRG		2.97619		0.3360	2	15	0.05	0.99	
2-Fluorobiphenyl	2.0164	1.9454	1.9070	1.8963	1.7407	1.6008	1.5285	AVRG		0.55402		1.8050	10	15	0.05	0.99	
Terphenyl-d14	1.1779	1.1595	1.1452	1.1643	1.1193	1.0368	1.0187	AVRG		0.89497		1.1174	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
Naphthalene	0.1000	9	0.2000	3	0.5000	4	1.0000	4	2.0000	-1	5.0000	-8	10.000	-12
Acenaphthylene	0.1000	1	0.2000	1	0.5000	5	1.0000	7	2.0000	2	5.0000	-6	10.000	-10
Acenaphthene	0.1000	3	0.2000	2	0.5000	4	1.0000	6	2.0000	0	5.0000	-6	10.000	-8
Fluorene	0.1000	6	0.2000	5	0.5000	4	1.0000	5	2.0000	-2	5.0000	-8	10.000	-11
Phenanthrene	0.1000	5	0.2000	6	0.5000	5	1.0000	5	2.0000	0	5.0000	-9	10.000	-13
Anthracene	0.1000	-1	0.2000	1	0.5000	3	1.0000	8	2.0000	4	5.0000	-5	10.000	-10
Fluoranthene	0.1000	4	0.2000	5	0.5000	5	1.0000	6	2.0000	0	5.0000	-8	10.000	-12
Pyrene	0.1000	5	0.2000	3	0.5000	4	1.0000	5	2.0000	1	5.0000	-8	10.000	-11
Benzo(a)anthracene	0.1000	1	0.2000	1	0.5000	5	1.0000	7	2.0000	2	5.0000	-6	10.000	-9
Chrysene	0.1000	3	0.2000	4	0.5000	4	1.0000	7	2.0000	3	5.0000	-7	10.000	-13
Benzo(b)fluoranthene	0.1000	-3	0.2000	-2	0.5000	2	1.0000	5	2.0000	4	5.0000	-2	10.000	-3
Benzo(k)fluoranthene	0.1000	-2	0.2000	3	0.5000	2	1.0000	5	2.0000	2	5.0000	-4	10.000	-7
Benzo(a)pyrene	0.1000	-4	0.2000	-3	0.5000	1	1.0000	3	2.0000	4	5.0000	0	10.000	-1
Indeno(1,2,3-cd)pyrene	0.1000	-3	0.2000	-2	0.5000	1	1.0000	4	2.0000	2	5.0000	-2	10.000	0
Dibenz(a,h)anthracene	0.1000	-5	0.2000	-2	0.5000	0	1.0000	3	2.0000	2	5.0000	0	10.000	2
Benzo(g,h,i)perylene	0.1000	1	0.2000	1	0.5000	3	1.0000	4	2.0000	1	5.0000	-5	10.000	-6
Nitrobenzene-d5	0.1000	1	0.2000	-2	0.5000	1	1.0000	4	2.0000	2	5.0000	-3	10.000	-2
2-Fluorobiphenyl	0.1000	12	0.2000	8	0.5000	6	1.0000	5	2.0000	-4	5.0000	-11	10.000	-15
Terphenyl-d14	0.1000	5	0.2000	4	0.5000	2	1.0000	4	2.0000	0	5.0000	-7	10.000	-9

YW1 01/08/19 [1,4-Dioxane]: Corrected automatically drawn baseline in all levels.

YW1 01/08/19 [1-Methylnaphthalene]: Picked or reassigned peak in all levels.

YW1 01/08/19 [Pyrene]: Picked or reassigned peak in all levels.

Analyst: YW1

Date: 01/08/19

Reviewer: LW

Date: 01/08/19

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRГ=Average response factor

Page 2 of 2

529010667001

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 306574 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03
Calnum : 529010667001

Name : 3PAHSIM
Cal Date : 07-JAN-2019

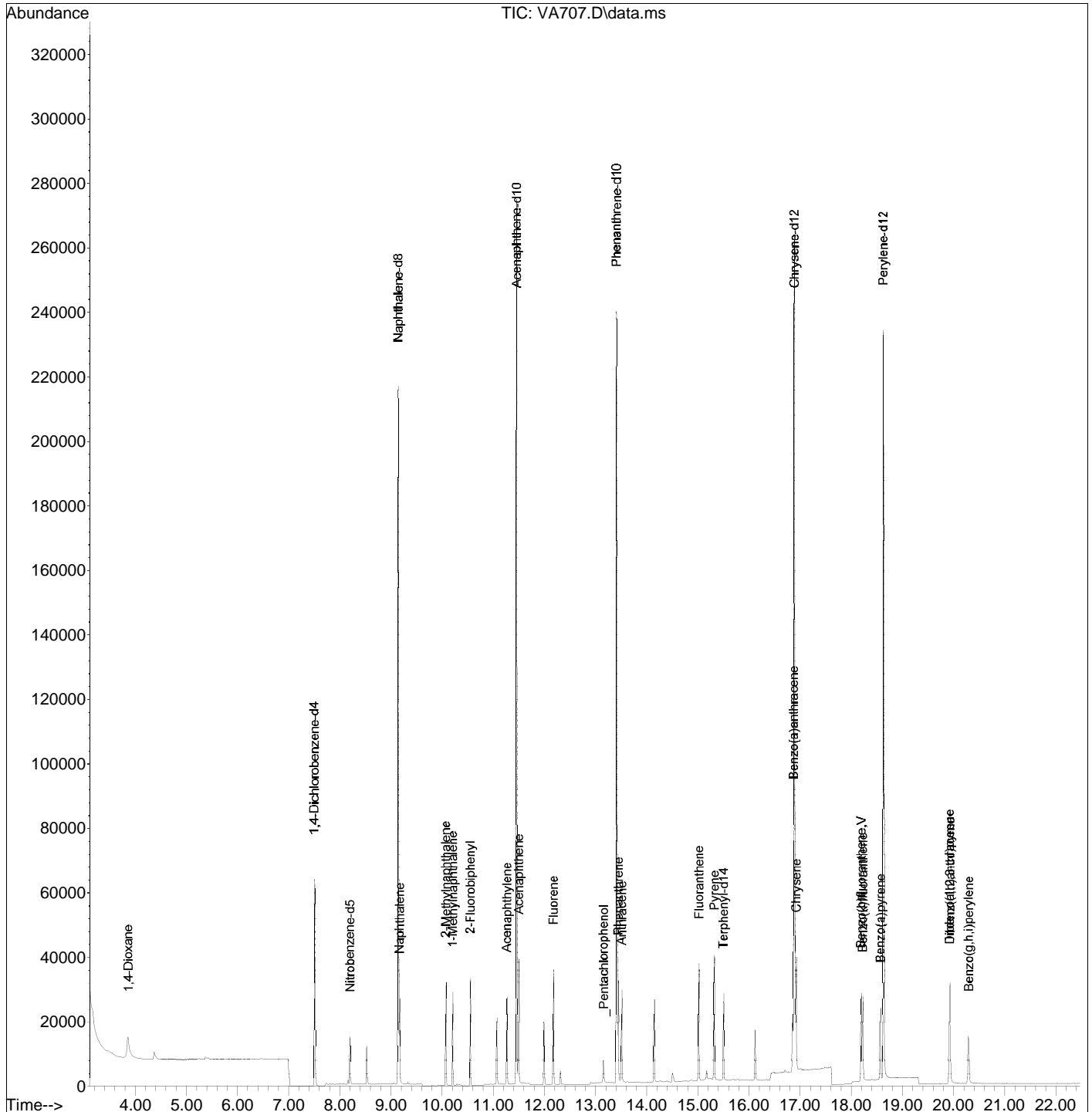
ICV 529010667014 (va714 07-JAN-2019) stds: S38459

Analyte	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1.000	0.9860	ug/mL	-1	30	
Acenaphthylene	1.000	0.9667	ug/mL	-3	30	
Acenaphthene	1.000	0.9106	ug/mL	-9	20	
Fluorene	1.000	0.9519	ug/mL	-5	30	
Phenanthrene	1.000	1.030	ug/mL	3	30	
Anthracene	1.000	1.021	ug/mL	2	30	
Fluoranthene	1.000	1.045	ug/mL	4	20	
Pyrene	1.000	1.015	ug/mL	1	30	
Benzo(a)anthracene	1.000	1.006	ug/mL	1	30	
Chrysene	1.000	1.030	ug/mL	3	30	
Benzo(b)fluoranthene	1.000	1.011	ug/mL	1	30	
Benzo(k)fluoranthene	1.000	1.041	ug/mL	4	30	
Benzo(a)pyrene	1.000	1.054	ug/mL	5	20	
Indeno(1,2,3-cd)pyrene	1.000	1.046	ug/mL	5	30	
Dibenz(a,h)anthracene	1.000	1.041	ug/mL	4	30	
Benzo(g,h,i)perylene	1.000	1.112	ug/mL	11	30	

ECI: 01/07/19 * YW1: 01/08/19 LW: 01/08/19

Data Path : G:\msbna03\010719\
 Data File : VA707.D
 Acq On : 7 Jan 2019 1:00 pm
 Operator :
 Sample : ical,s38722
 Misc : ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 08 09:30:11 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA707.D
 Acq On : 7 Jan 2019 1:00 pm
 Operator :
 Sample : ical,s38722
 Misc : ical
 ALS Vial : 5 Sample Multiplier: 1

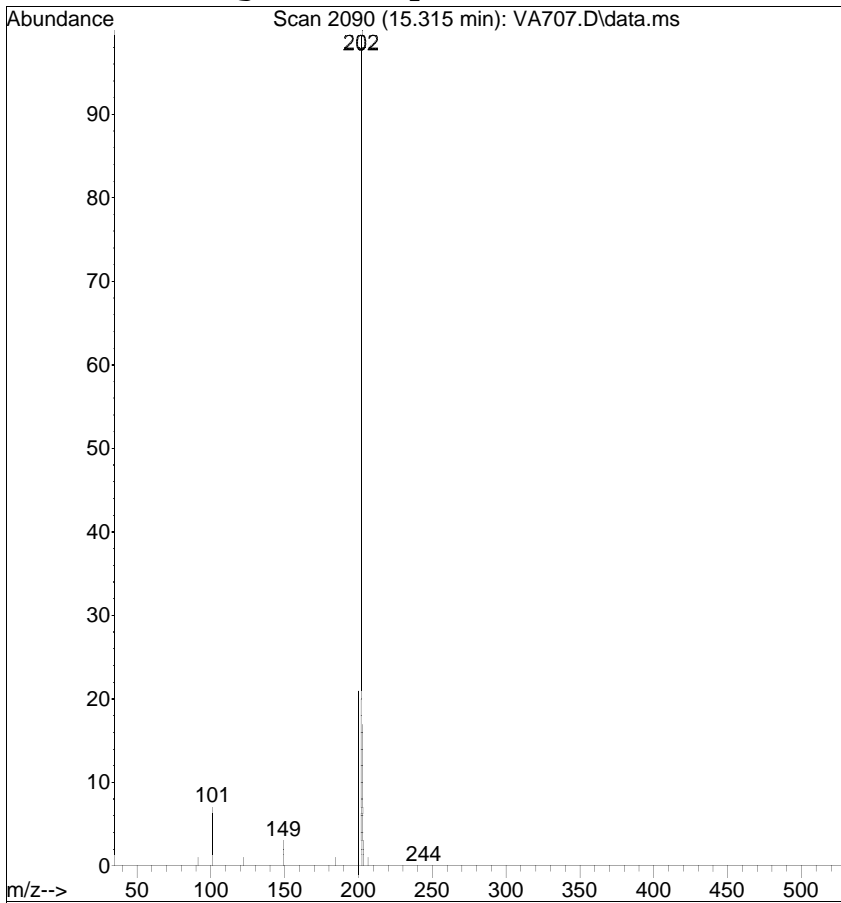
Quant Time: Jan 08 09:30:11 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.503	152	53819	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.139	136	195317	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.453	164	110886	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.406	188	228654	1.0000	ug/mL	0.00
18) Chrysene-d12	16.885	240	205560	1.0000	ug/mL	0.00
23) Perylene-d12	18.626	264	182685	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.860	88	9218m	0.3630	ug/mL	
4) Nitrobenzene-d5	8.196	82	6617	0.1225	ug/mL	84
5) Naphthalene	9.167	128	20300	0.1003	ug/mL	99
6) 2-Methylnaphthalene	10.070	142	16500	0.1123	ug/mL	94
7) 1-Methylnaphthalene	10.202	142	14333m	0.1115	ug/mL	
9) 2-Fluorobiphenyl	10.547	172	22359	0.1134	ug/mL	98
10) Acenaphthylene	11.261	152	19658	0.0915	ug/mL	99
11) Acenaphthene	11.493	154	12820	0.0947	ug/mL	95
12) Fluorene	12.169	166	16419	0.0998	ug/mL	96
14) _Pentachlorophenol	13.151	266	3612	9.8110	ug/mL	92
15) Phenanthrene	13.442	178	23170	0.0988	ug/mL	98
16) Anthracene	13.507	178	20550	0.0899	ug/mL	98
17) Fluoranthene	15.014	202	27666	0.1012	ug/mL	98
19) Pyrene	15.315	202	28288m	0.0919	ug/mL	
20) Terphenyl-d14	15.495	244	24212	0.1005	ug/mL	89
21) Benzo(a)anthracene	16.870	228	25170	0.0993	ug/mL	96
22) Chrysene	16.915	228	24082	0.1028	ug/mL	95
24) Benzo(b)fluoranthene	18.186	252	23164	0.1033	ug/mL	93
25) Benzo(k)fluoranthene	18.216	252	22126	0.1011	ug/mL	91
26) Benzo(a)pyrene	18.562	252	19463	0.0938	ug/mL	95
27) Indeno(1,2,3-cd)pyrene	19.914	276	21249	0.0934	ug/mL	55
28) Dibenz(a,h)anthracene	19.920	278	17246	0.0966	ug/mL	90
29) Benzo(g,h,i)perylene	20.287	276	17794	0.0947	ug/mL	92

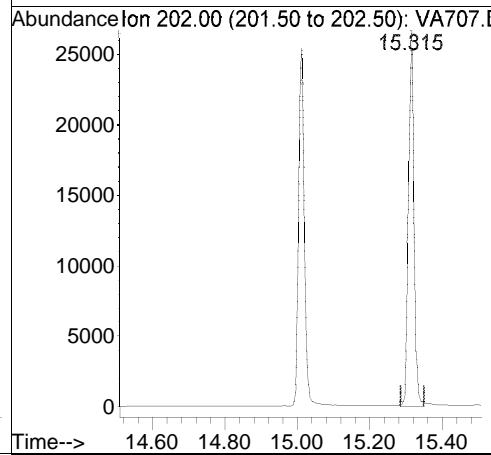
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

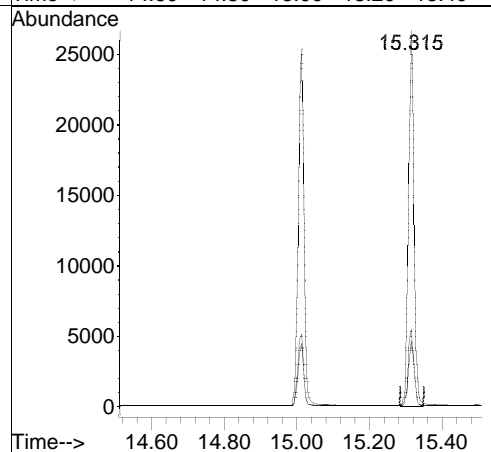
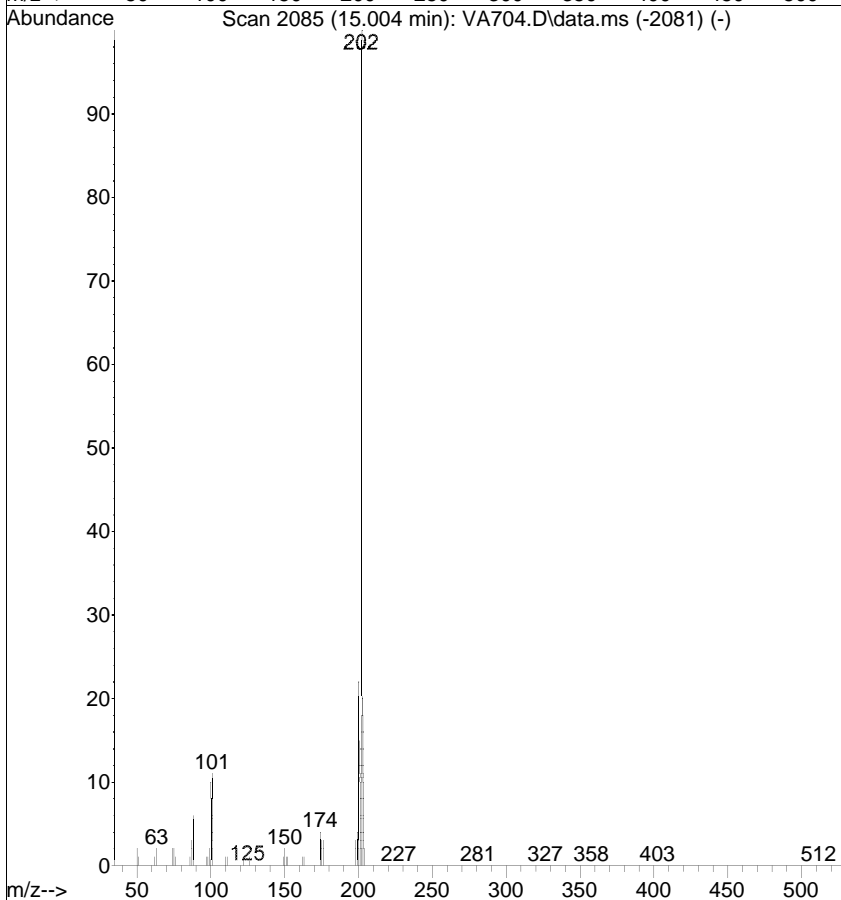


#19
 Pyrene
 Concen: 0.0919 ug/mL m
 RT: 15.315 min Scan# 2090
 Delta R.T. 0.311 min
 Lab File: VA707.D
 Acq: 7 Jan 2019 1:00 pm

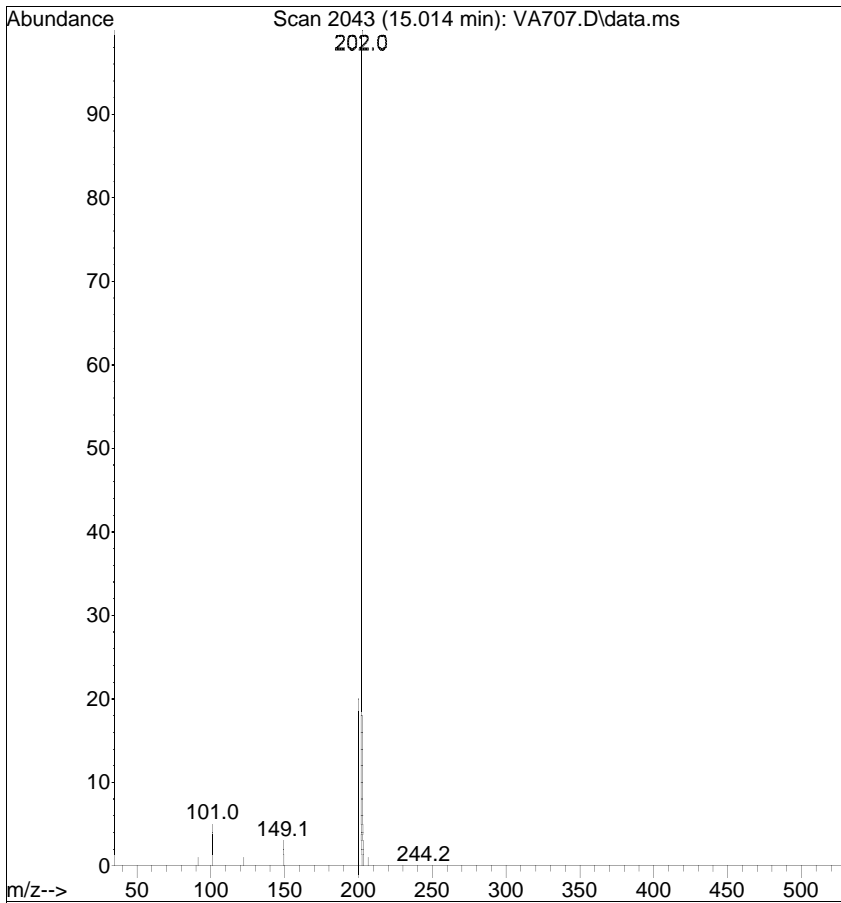
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	1.1	41.1
203	17.5	0.0	37.7



Ref

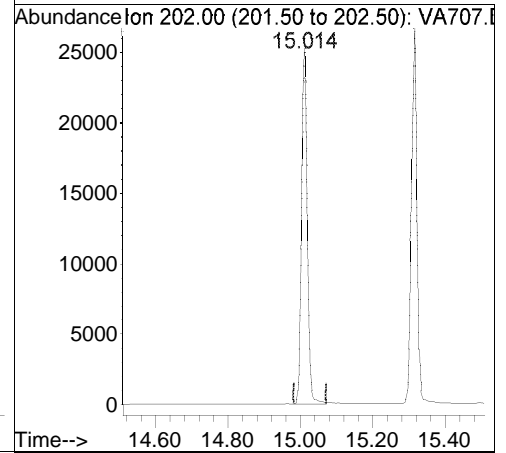


Raw

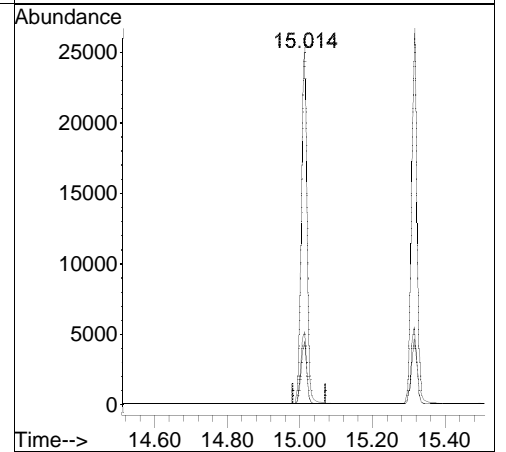
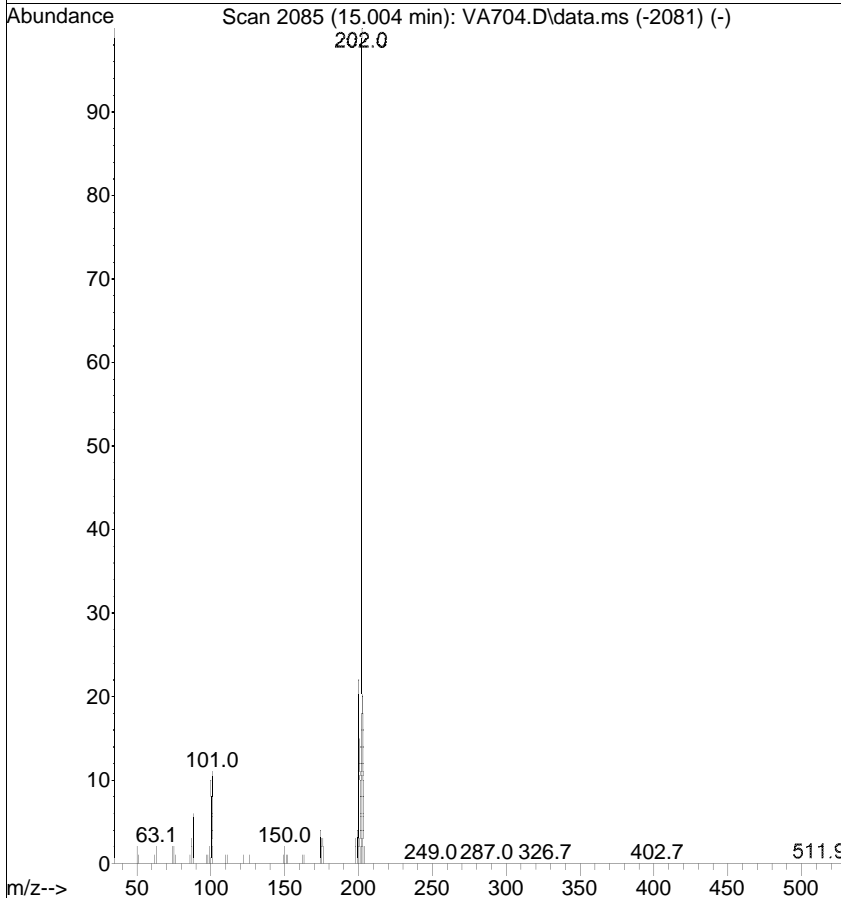


#19
 Pyrene
 Concen: 0.0899 ug/mL
 RT: 15.014 min Scan# 2043
 Delta R.T. 0.010 min
 Lab File: VA707.D
 Acq: 7 Jan 2019 1:00 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.5	1.1	41.1
203	17.8	0.0	37.7



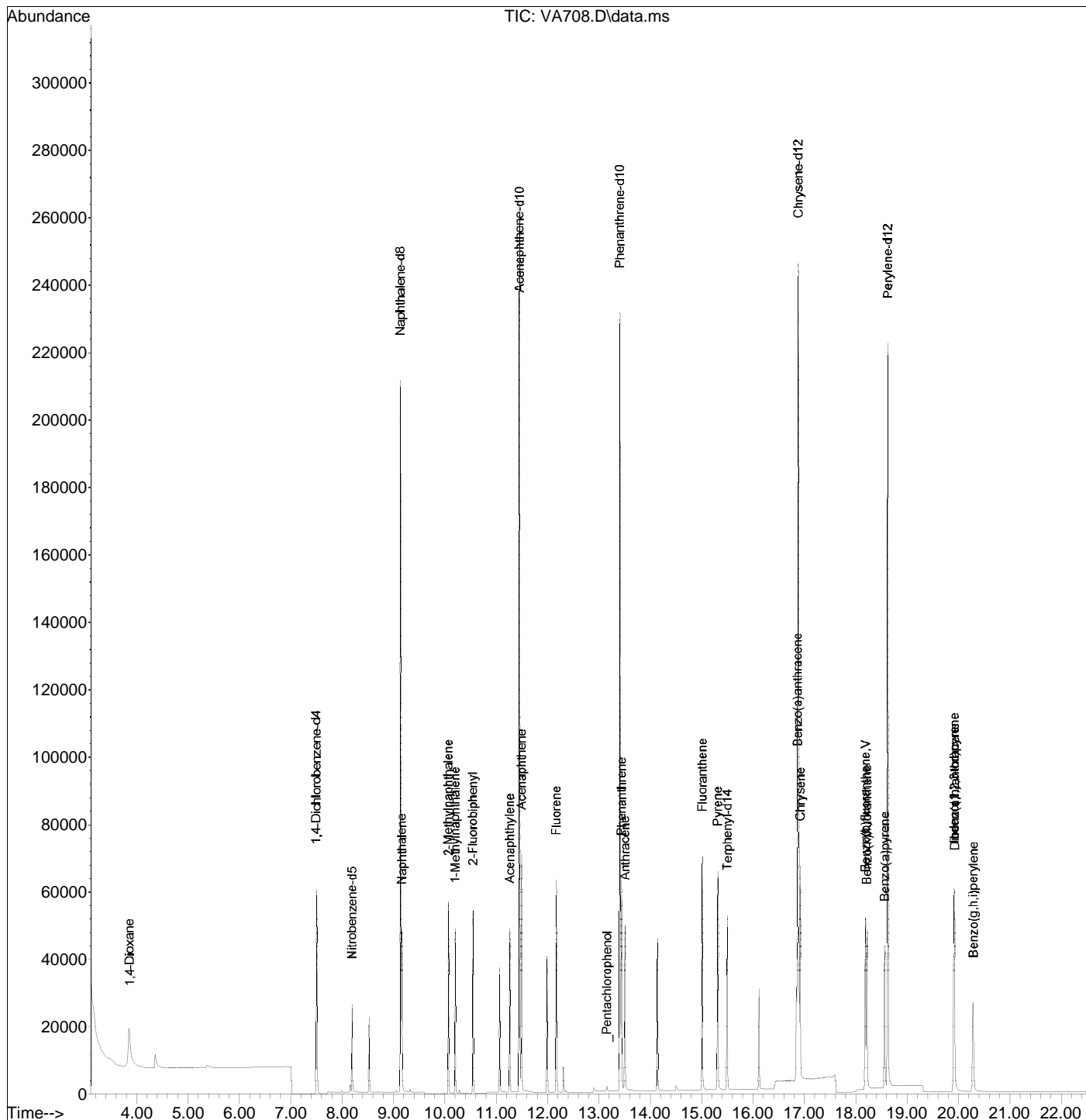
Ref



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA708.D
 Acq On : 7 Jan 2019 1:32 pm
 Operator :
 Sample : ical,s38723
 Misc : ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 08 09:31:00 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA708.D
 Acq On : 7 Jan 2019 1:32 pm
 Operator :
 Sample : ical,s38723
 Misc : ical
 ALS Vial : 6 Sample Multiplier: 1

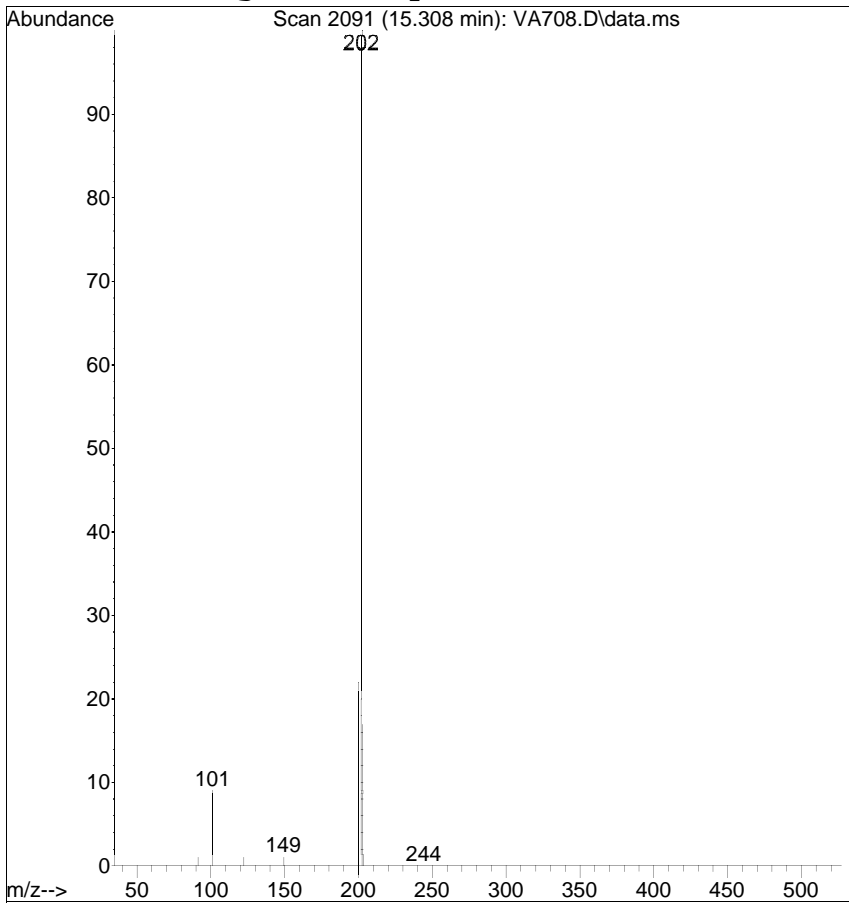
Quant Time: Jan 08 09:31:00 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.500	152	50772	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.135	136	183698	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.450	164	100389	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.406	188	209102	1.0000	ug/mL	0.00
18) Chrysene-d12	16.880	240	189441	1.0000	ug/mL	0.00
23) Perylene-d12	18.621	264	166201	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.859	88	17649m	0.7367	ug/mL	
4) Nitrobenzene-d5	8.191	82	12052	0.2373	ug/mL	90
5) Naphthalene	9.163	128	36365	0.1910	ug/mL	99
6) 2-Methylnaphthalene	10.065	142	29388	0.2126	ug/mL	99
7) 1-Methylnaphthalene	10.200	142	25733m	0.2128	ug/mL	
9) 2-Fluorobiphenyl	10.546	172	39059	0.2188	ug/mL	98
10) Acenaphthylene	11.262	152	35369	0.1818	ug/mL	99
11) Acenaphthene	11.490	154	23156	0.1889	ug/mL	95
12) Fluorene	12.169	166	29501	0.1981	ug/mL	97
14) _Pentachlorophenol	13.151	266	673	1.9989	ug/mL	92
15) Phenanthrene	13.435	178	42797	0.1996	ug/mL	98
16) Anthracene	13.506	178	38210	0.1828	ug/mL	97
17) Fluoranthene	15.007	202	51356	0.2054	ug/mL	98
19) Pyrene	15.308	202	51399m	0.1813	ug/mL	
20) Terphenyl-d14	15.494	244	43930	0.1978	ug/mL	91
21) Benzo(a)anthracene	16.865	228	46719	0.1999	ug/mL	97
22) Chrysene	16.914	228	44827	0.2076	ug/mL	94
24) Benzo(b)fluoranthene	18.181	252	42476	0.2083	ug/mL	96
25) Benzo(k)fluoranthene	18.211	252	42047	0.2111	ug/mL	96
26) Benzo(a)pyrene	18.558	252	36095	0.1912	ug/mL	98
27) Indeno(1,2,3-cd)pyrene	19.910	276	39222	0.1895	ug/mL	59
28) Dibenz(a,h)anthracene	19.914	278	32298	0.1989	ug/mL	89
29) Benzo(g,h,i)perylene	20.280	276	32261	0.1888	ug/mL	92

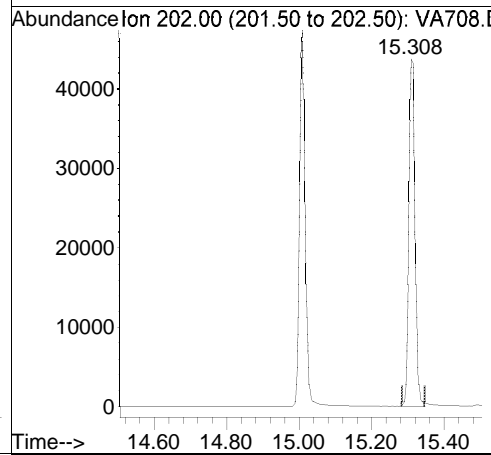
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

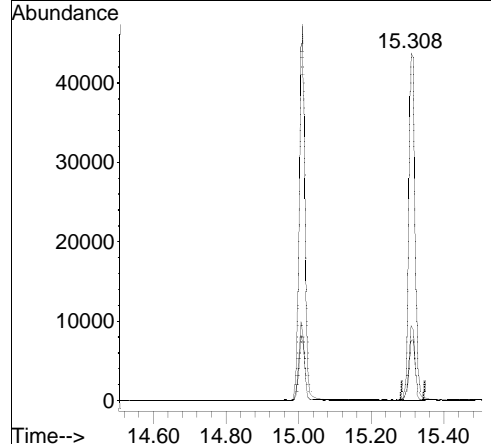
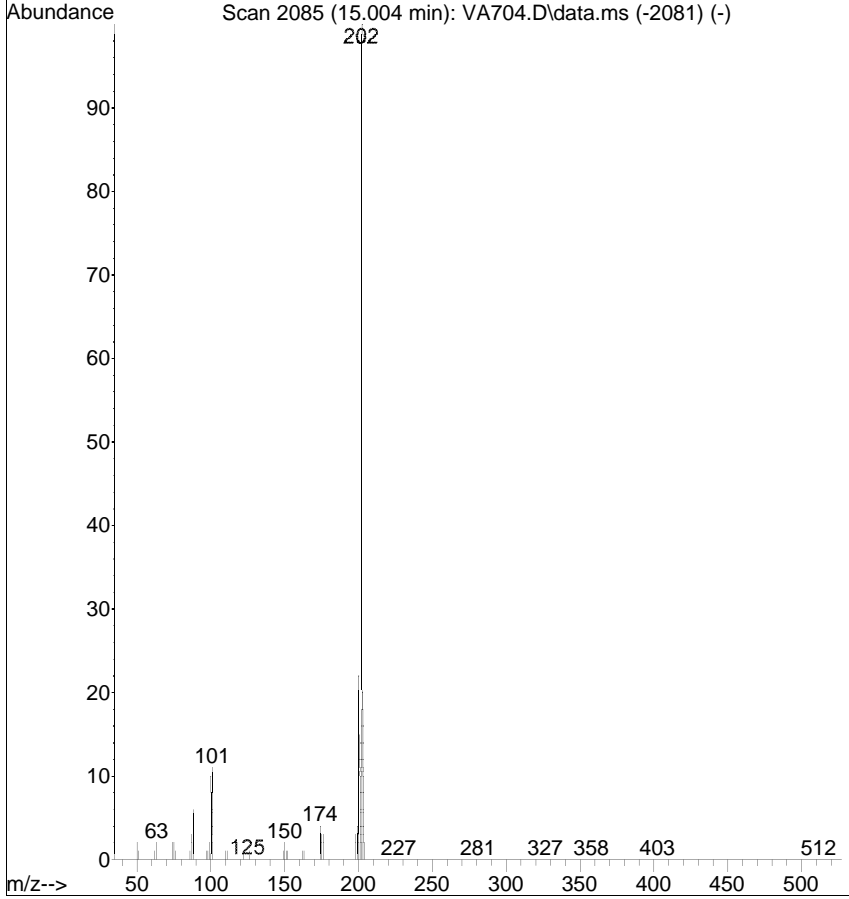


#19
 Pyrene
 Concen: 0.1813 ug/mL m
 RT: 15.308 min Scan# 2091
 Delta R.T. 0.304 min
 Lab File: VA708.D
 Acq: 7 Jan 2019 1:32 pm

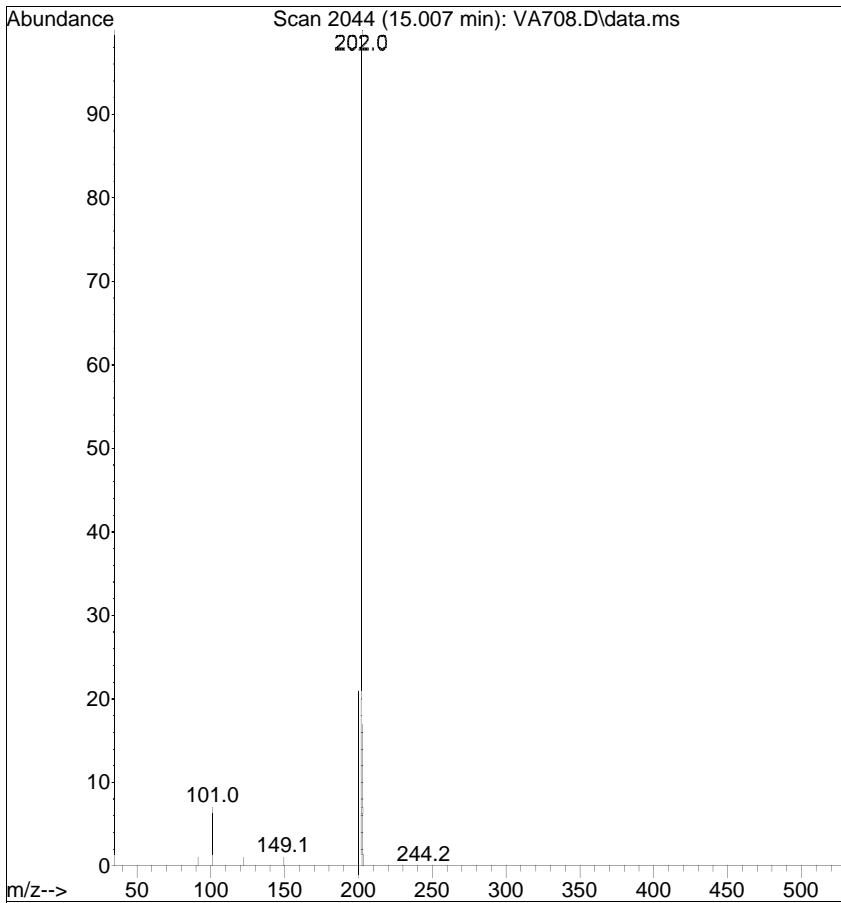
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	1.1	41.1
203	17.4	0.0	37.7



Ref

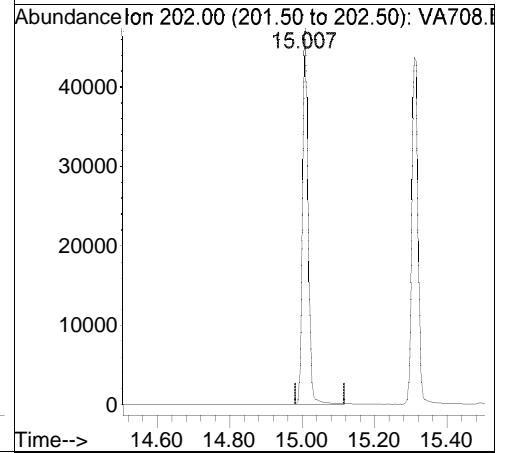


Raw

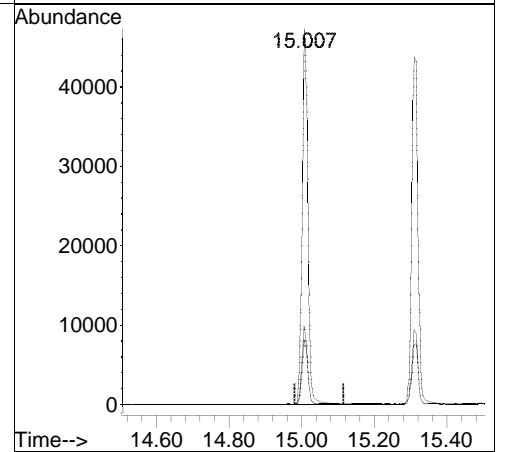
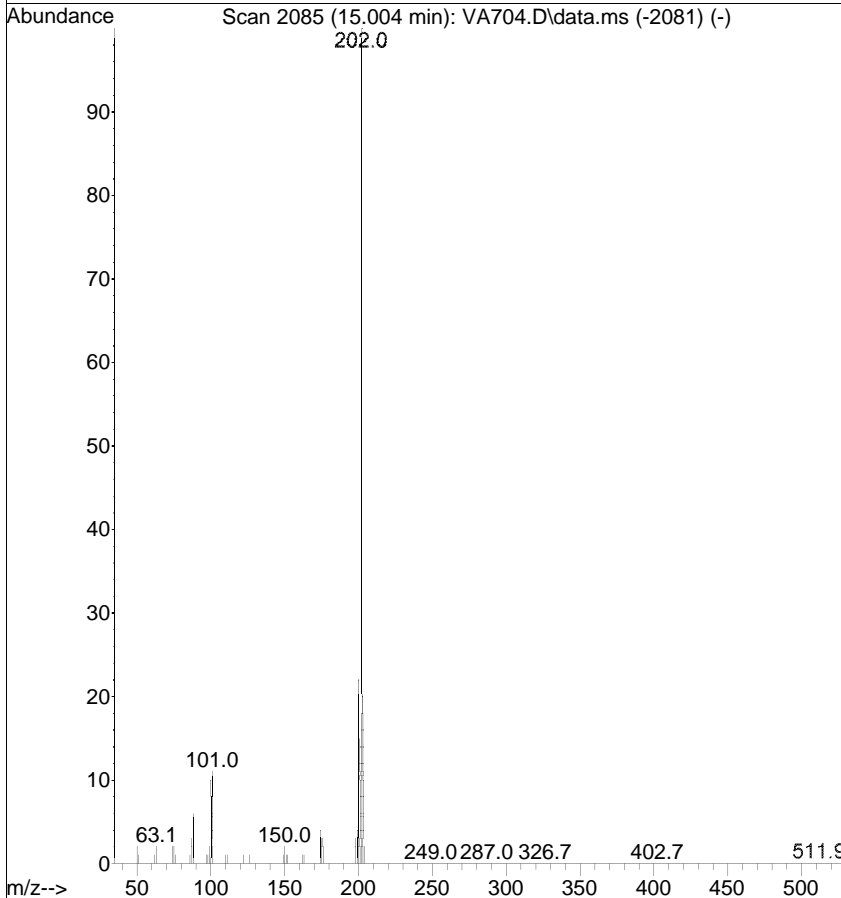


#19
 Pyrene
 Concen: 0.1811 ug/mL
 RT: 15.007 min Scan# 2044
 Delta R.T. 0.003 min
 Lab File: VA708.D
 Acq: 7 Jan 2019 1:32 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	1.1	41.1
203	17.4	0.0	37.7



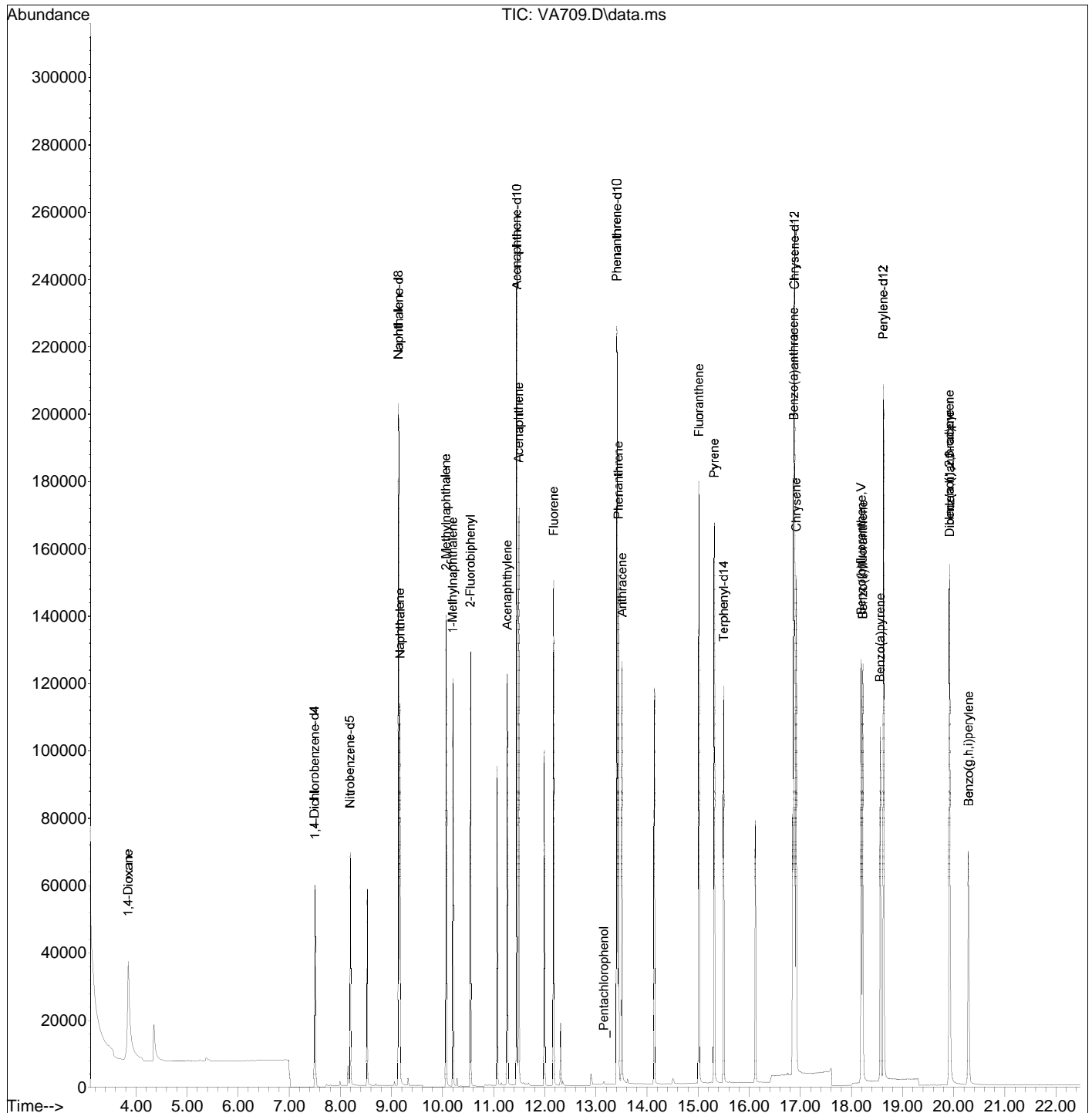
Ref



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA709.D
 Acq On : 7 Jan 2019 2:04 pm
 Operator :
 Sample : ical,s38724
 Misc : ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 08 09:31:17 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA709.D
 Acq On : 7 Jan 2019 2:04 pm
 Operator :
 Sample : ical,s38724
 Misc : ical
 ALS Vial : 7 Sample Multiplier: 1

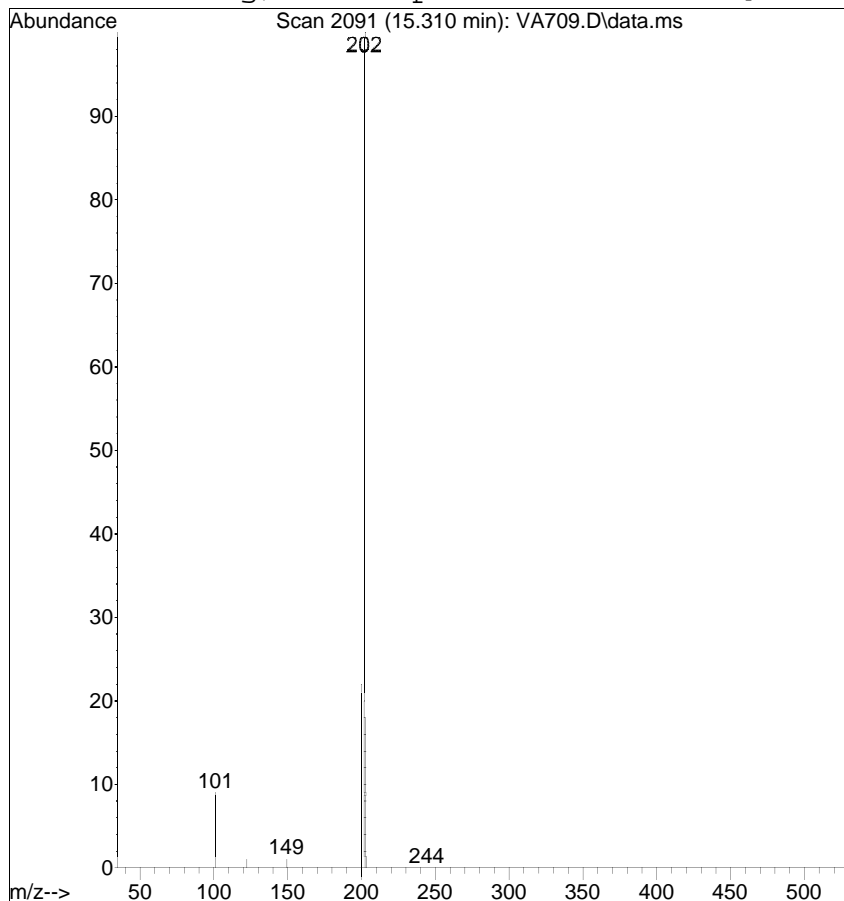
Quant Time: Jan 08 09:31:17 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.499	152	50384	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.136	136	179657	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.449	164	97954	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.406	188	205850	1.0000	ug/mL	0.00
18) Chrysene-d12	16.880	240	183637	1.0000	ug/mL	0.00
23) Perylene-d12	18.620	264	161312	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.848	88	48467m	2.0388	ug/mL	
4) Nitrobenzene-d5	8.192	82	30399	0.6120	ug/mL	89
5) Naphthalene	9.164	128	89863	0.4825	ug/mL	99
6) 2-Methylnaphthalene	10.066	142	71308	0.5275	ug/mL	98
7) 1-Methylnaphthalene	10.197	142	61918m	0.5236	ug/mL	
9) 2-Fluorobiphenyl	10.542	172	93398	0.5362	ug/mL	95
10) Acenaphthylene	11.262	152	89514	0.4716	ug/mL	99
11) Acenaphthene	11.489	154	57186	0.4782	ug/mL	94
12) Fluorene	12.169	166	71554	0.4925	ug/mL	96
14) _Pentachlorophenol	13.151	266	418	1.2612	ug/mL	92
15) Phenanthrene	13.436	178	104613	0.4955	ug/mL	98
16) Anthracene	13.507	178	96435	0.4686	ug/mL	97
17) Fluoranthene	15.009	202	126602	0.5144	ug/mL	97
19) Pyrene	15.310	202	124933m	0.4545	ug/mL	
20) Terphenyl-d14	15.496	244	105146	0.4885	ug/mL	91
21) Benzo(a)anthracene	16.865	228	116869	0.5159	ug/mL	97
22) Chrysene	16.915	228	109251	0.5219	ug/mL	95
24) Benzo(b)fluoranthene	18.184	252	107713	0.5442	ug/mL	96
25) Benzo(k)fluoranthene	18.214	252	101852	0.5269	ug/mL	96
26) Benzo(a)pyrene	18.557	252	90789	0.4956	ug/mL	98
27) Indeno(1,2,3-cd)pyrene	19.910	276	98469	0.4901	ug/mL	58
28) Dibenz(a,h)anthracene	19.914	278	79772	0.5061	ug/mL	90
29) Benzo(g,h,i)perylene	20.280	276	80146	0.4832	ug/mL	93

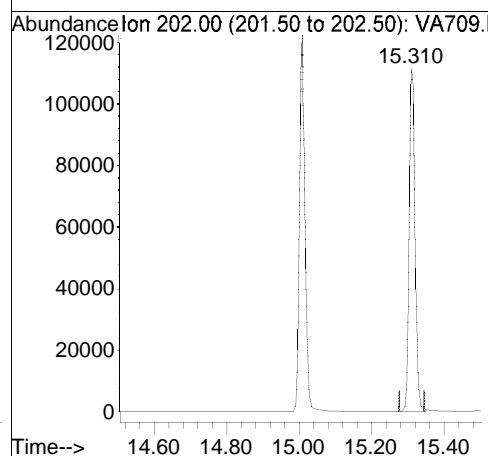
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

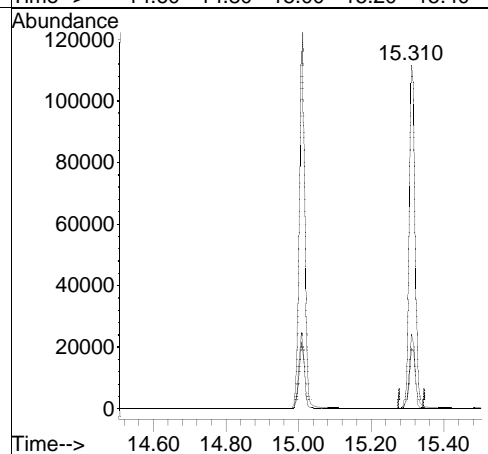
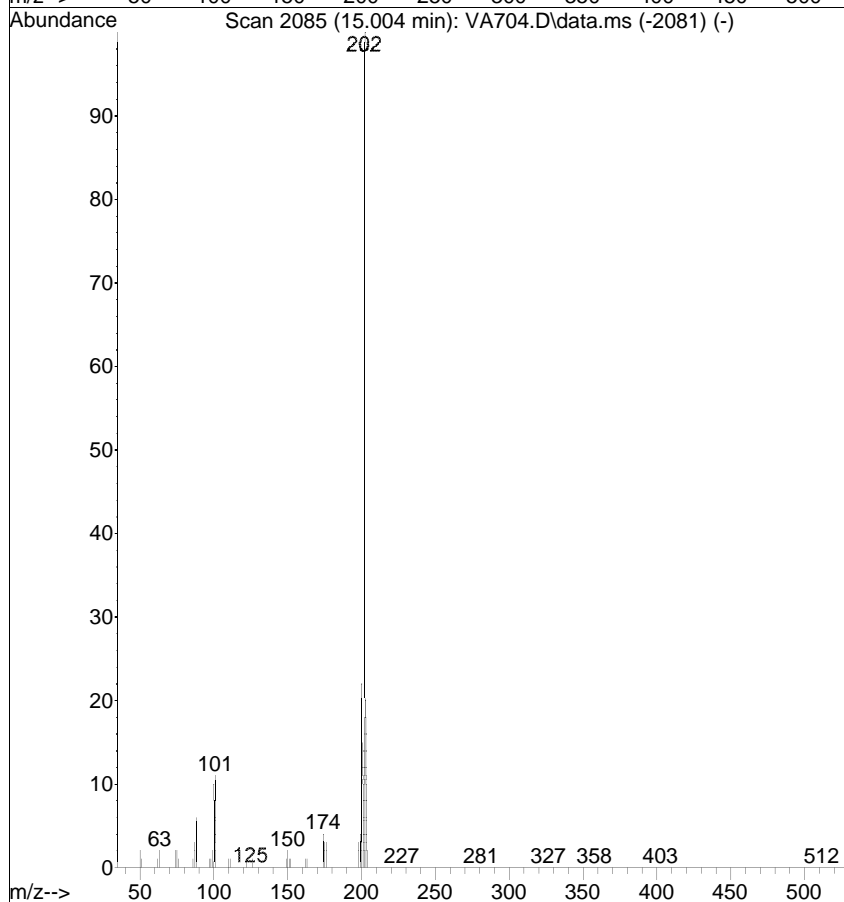


#19
 Pyrene
 Concen: 0.4545 ug/mL m
 RT: 15.310 min Scan# 2091
 Delta R.T. 0.306 min
 Lab File: VA709.D
 Acq: 7 Jan 2019 2:04 pm

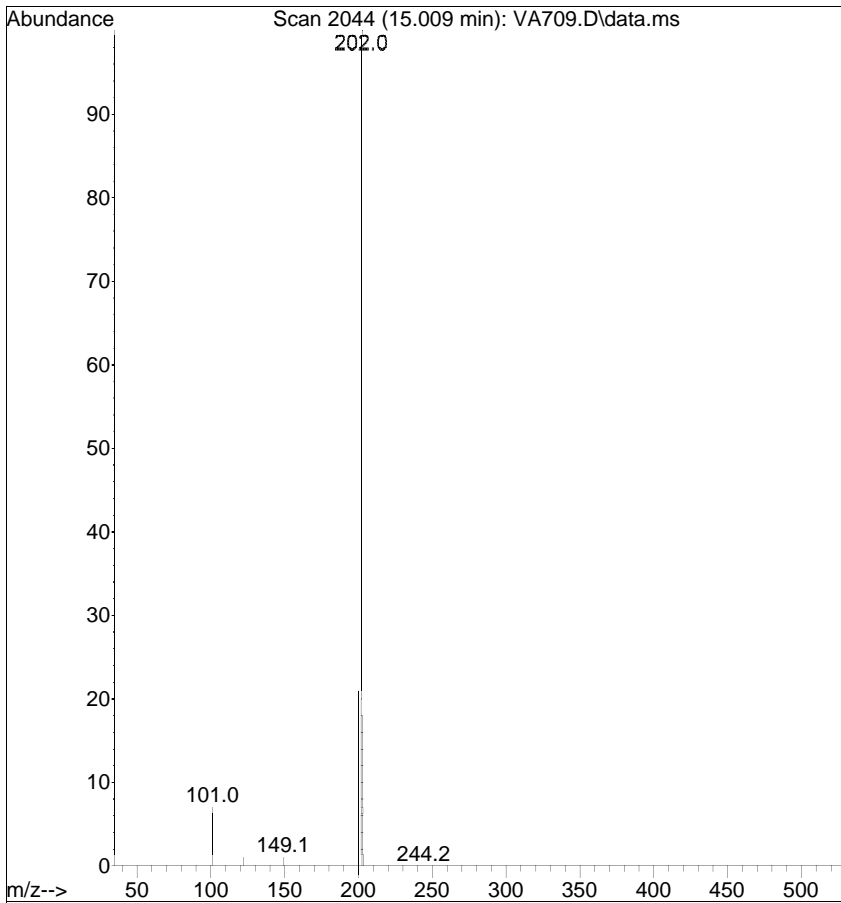
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	1.1	41.1
203	17.5	0.0	37.7



Ref

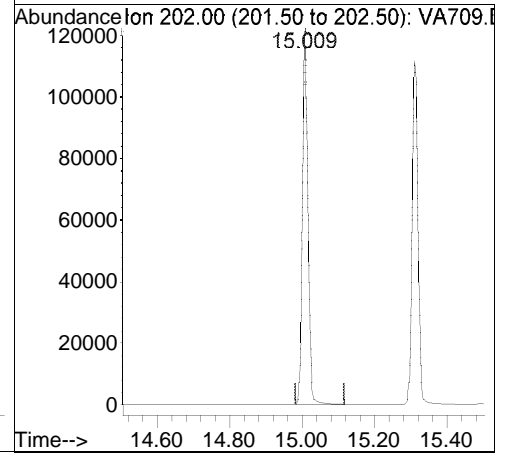


Raw

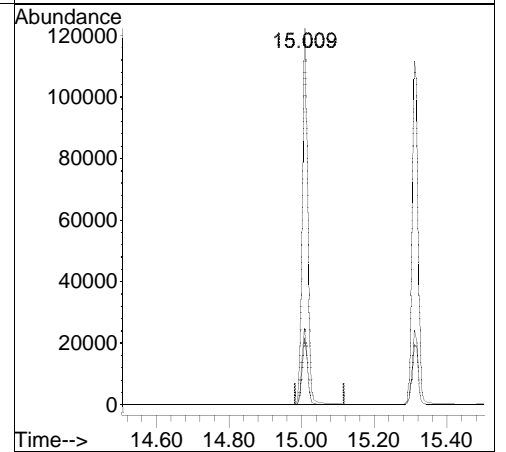
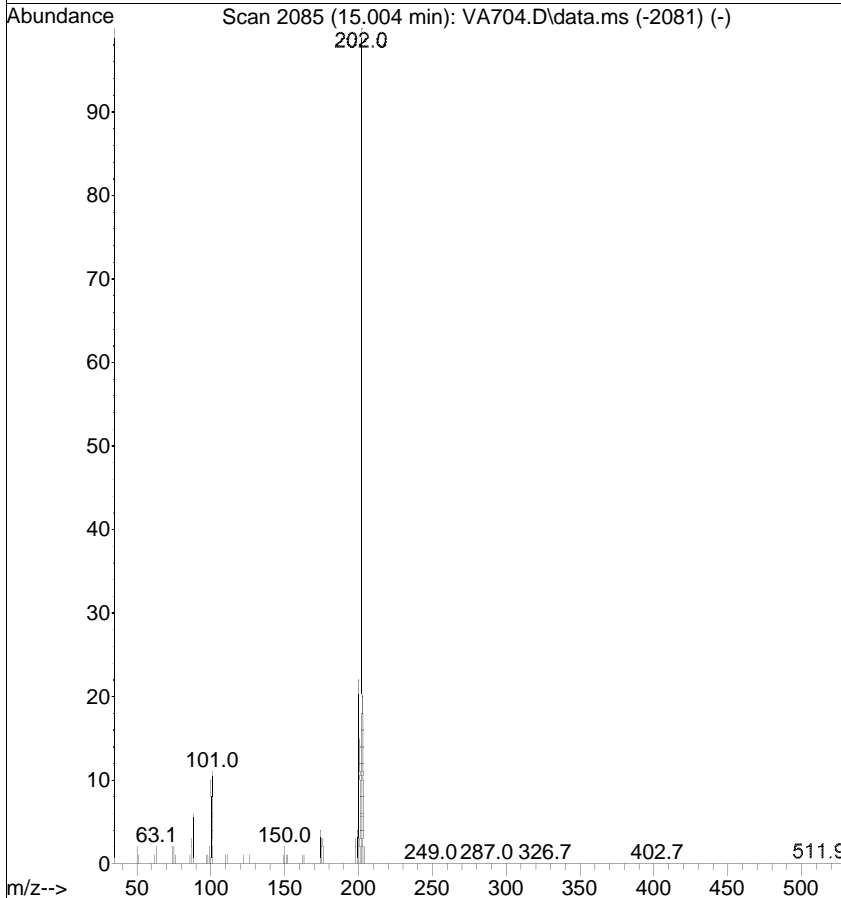


#19
 Pyrene
 Concen: 0.4606 ug/mL
 RT: 15.009 min Scan# 2044
 Delta R.T. 0.005 min
 Lab File: VA709.D
 Acq: 7 Jan 2019 2:04 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.5	1.1	41.1
203	17.8	0.0	37.7



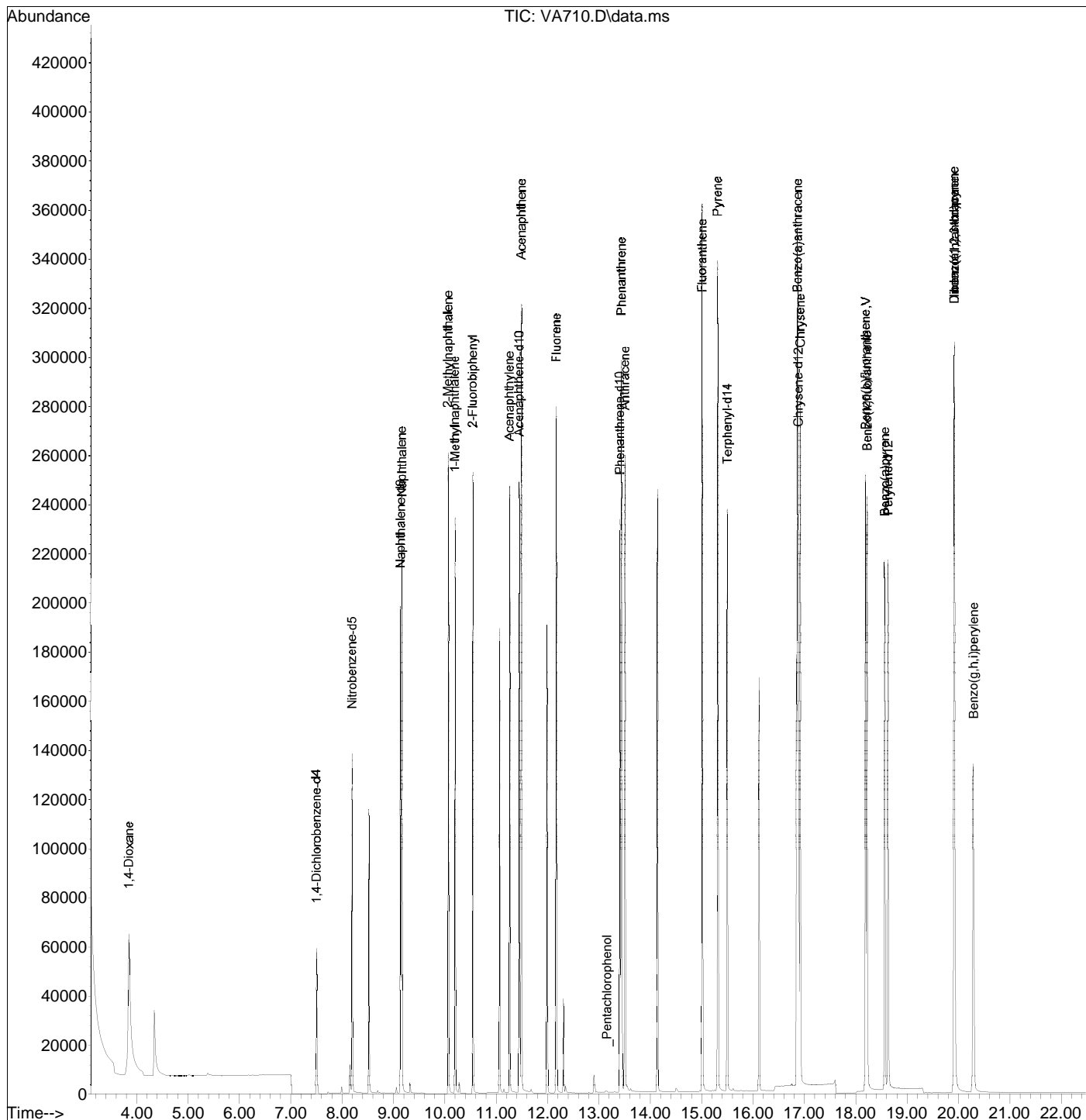
Ref



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA710.D
 Acq On : 7 Jan 2019 2:35 pm
 Operator :
 Sample : ical,s38725
 Misc : ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 08 09:31:30 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA710.D
 Acq On : 7 Jan 2019 2:35 pm
 Operator :
 Sample : ical,s38725
 Misc : ical
 ALS Vial : 8 Sample Multiplier: 1

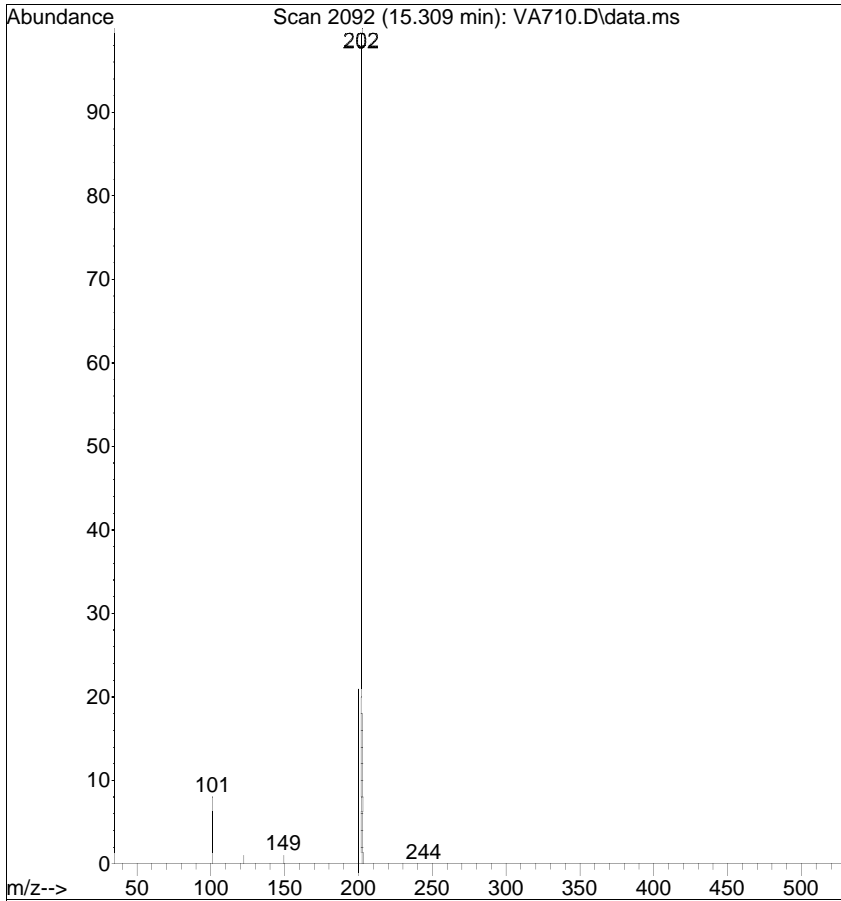
Quant Time: Jan 08 09:31:30 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.500	152	49457	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.136	136	175103	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.446	164	94934	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.405	188	202722	1.0000	ug/mL	0.00
18) Chrysene-d12	16.880	240	179419	1.0000	ug/mL	0.00
23) Perylene-d12	18.621	264	160055	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.848	88	97516m	4.1789	ug/mL	
4) Nitrobenzene-d5	8.192	82	61018	1.2604	ug/mL	86
5) Naphthalene	9.160	128	174967	0.9639	ug/mL	99
6) 2-Methylnaphthalene	10.066	142	136678	1.0374	ug/mL	95
7) 1-Methylnaphthalene	10.197	142	119599m	1.0377	ug/mL	
9) 2-Fluorobiphenyl	10.542	172	180022	1.0664	ug/mL	97
10) Acenaphthylene	11.258	152	177298	0.9639	ug/mL	98
11) Acenaphthene	11.490	154	112997	0.9750	ug/mL	91
12) Fluorene	12.169	166	139001	0.9871	ug/mL	94
14) _Pentachlorophenol	13.151	266	278	0.8517	ug/mL	89
15) Phenanthrene	13.435	178	205203	0.9869	ug/mL	98
16) Anthracene	13.506	178	197494	0.9745	ug/mL	96
17) Fluoranthene	15.008	202	249893	1.0311	ug/mL	97
19) Pyrene	15.309	202	248174m	0.9241	ug/mL	
20) Terphenyl-d14	15.495	244	208898	0.9934	ug/mL	91
21) Benzo(a)anthracene	16.865	228	232829	1.0520	ug/mL	97
22) Chrysene	16.914	228	219252	1.0721	ug/mL	95
24) Benzo(b)fluoranthene	18.185	252	218634	1.1133	ug/mL	95
25) Benzo(k)fluoranthene	18.215	252	206360	1.0759	ug/mL	96
26) Benzo(a)pyrene	18.558	252	183984	1.0122	ug/mL	98
27) Indeno(1,2,3-cd)pyrene	19.910	276	200270	1.0046	ug/mL	58
28) Dibenz(a,h)anthracene	19.913	278	162715	1.0403	ug/mL	91
29) Benzo(g,h,i)perylene	20.283	276	160328	0.9742	ug/mL	92

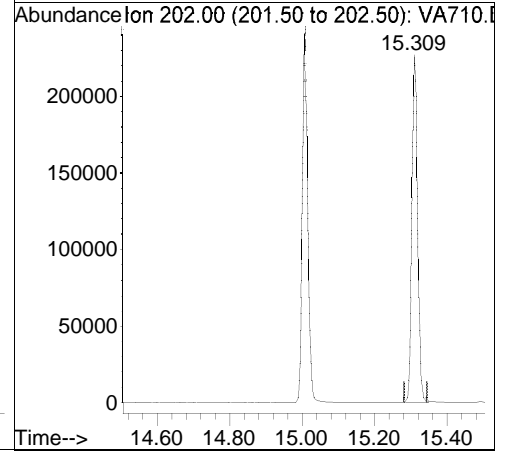
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

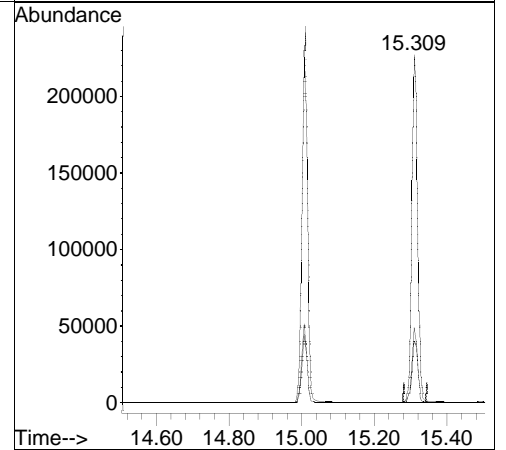
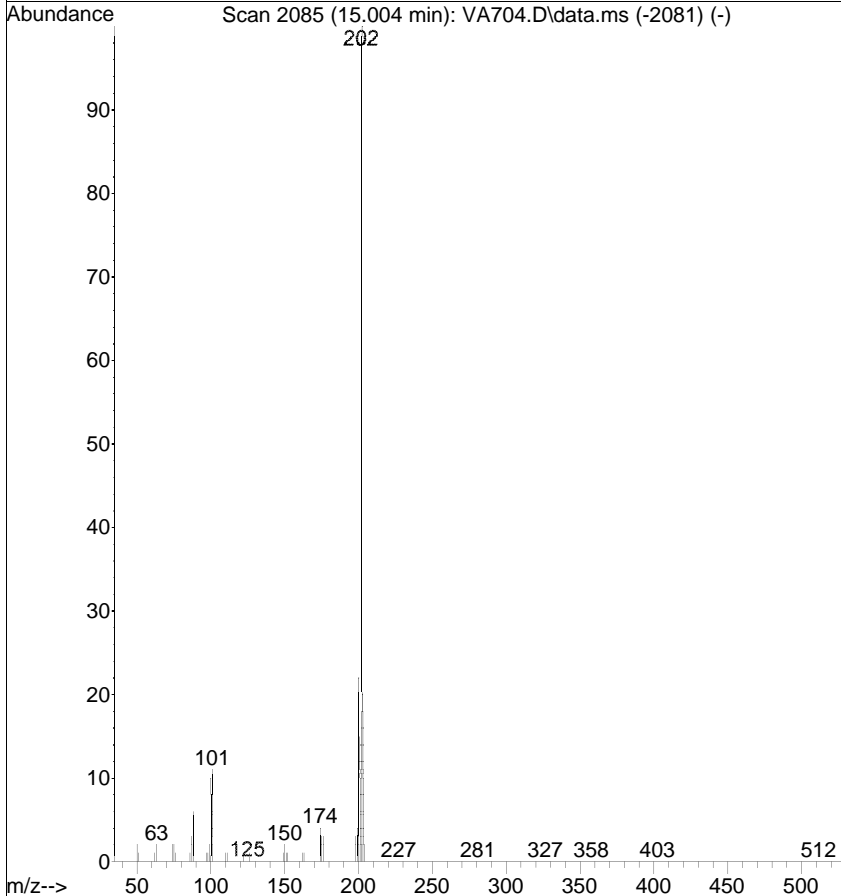


#19
 Pyrene
 Concen: 0.9241 ug/mL m
 RT: 15.309 min Scan# 2092
 Delta R.T. 0.305 min
 Lab File: VA710.D
 Acq: 7 Jan 2019 2:35 pm

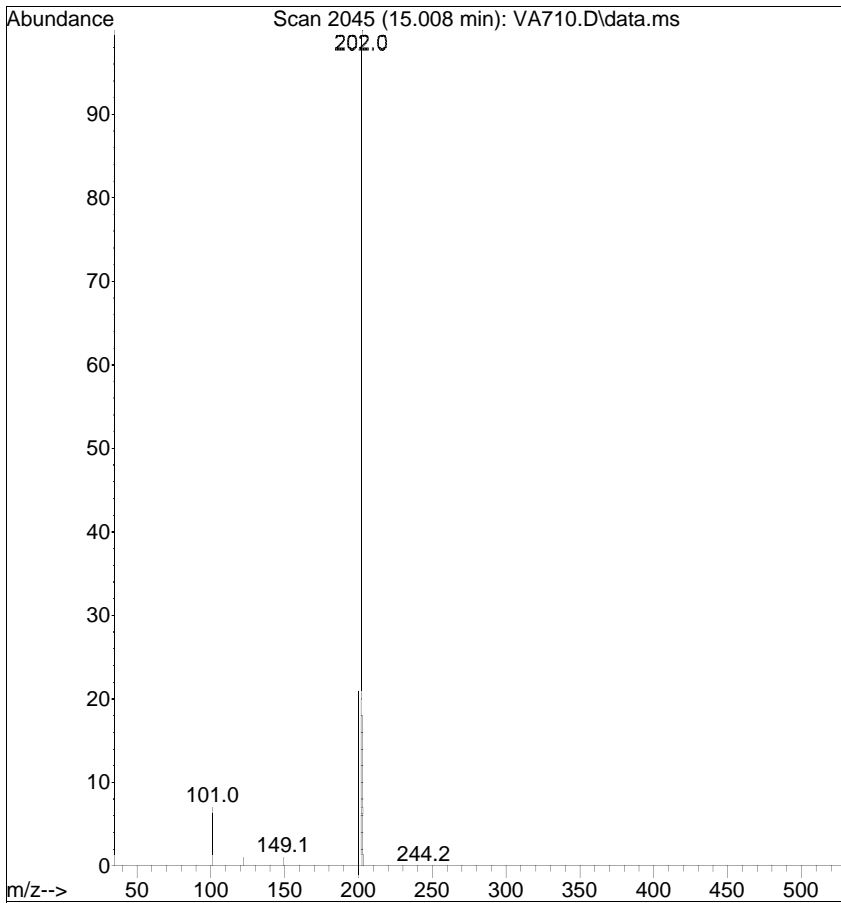
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	1.1	41.1
203	17.9	0.0	37.7



Ref

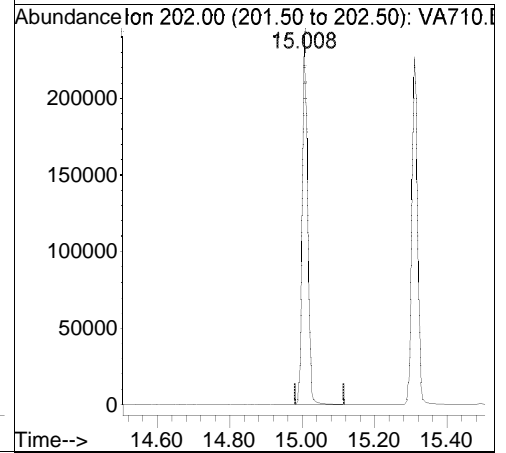


Raw

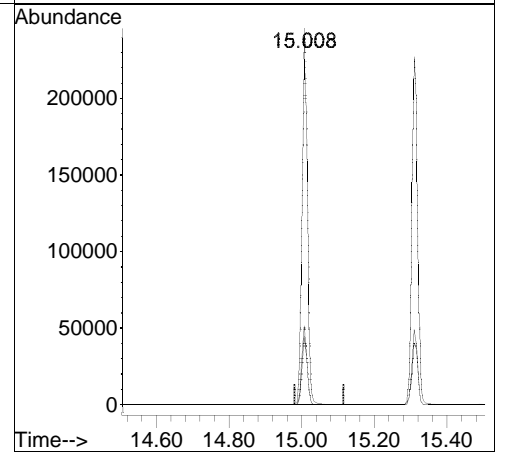
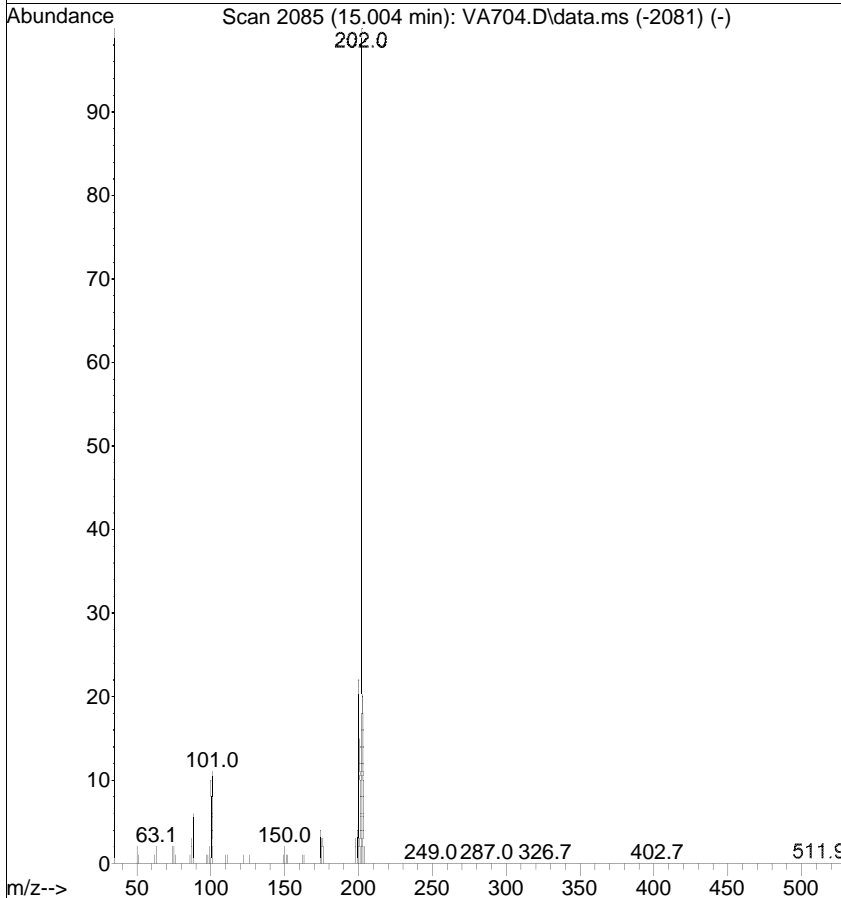


#19
 Pyrene
 Concen: 0.9305 ug/mL
 RT: 15.008 min Scan# 2045
 Delta R.T. 0.004 min
 Lab File: VA710.D
 Acq: 7 Jan 2019 2:35 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	1.1	41.1
203	18.2	0.0	37.7



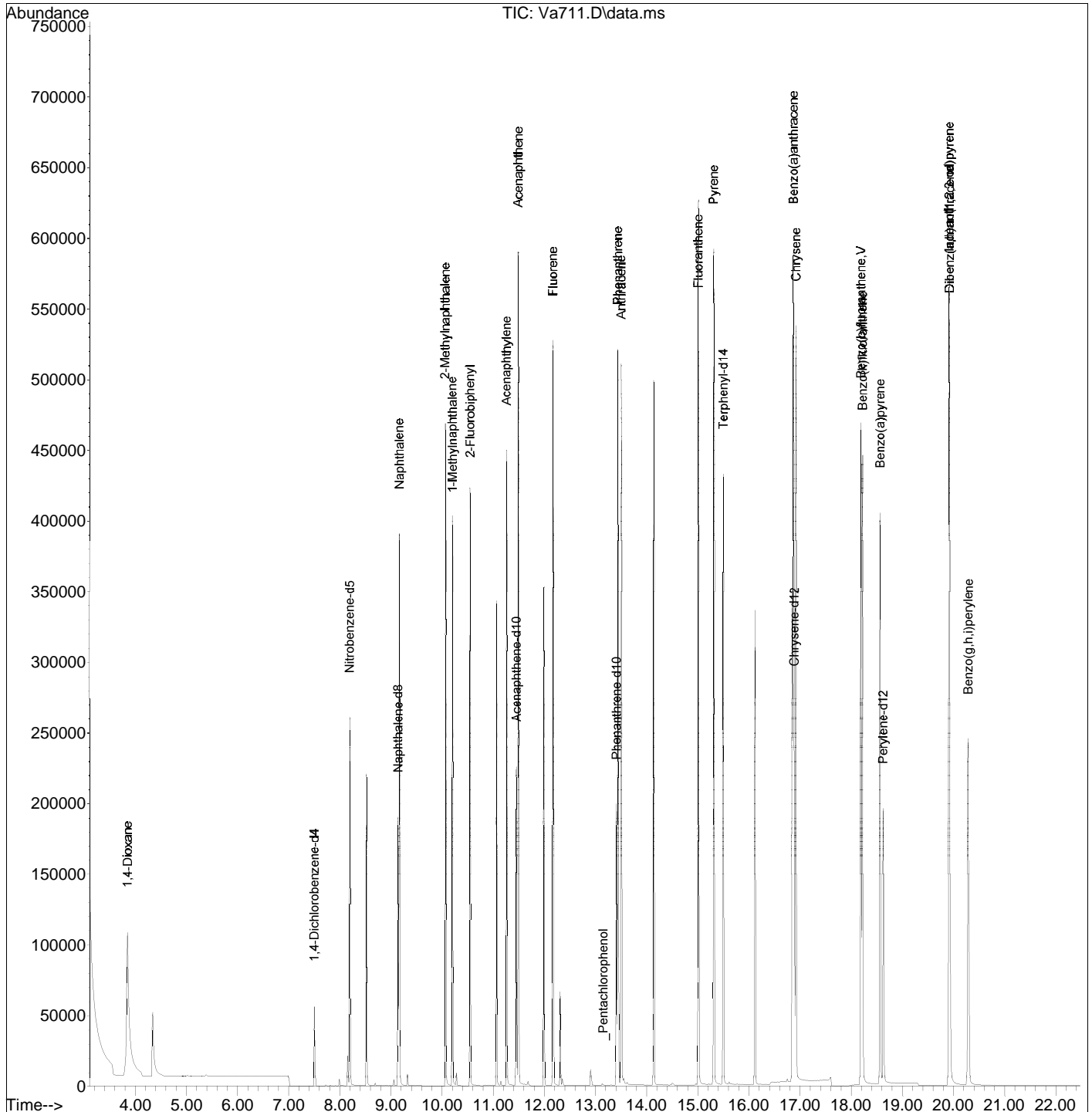
Ref



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : Va711.D
 Acq On : 7 Jan 2019 3:07 pm
 Operator :
 Sample : ical,s38726
 Misc : ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 08 09:31:45 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : Va711.D
 Acq On : 7 Jan 2019 3:07 pm
 Operator :
 Sample : ical,s38726
 Misc : ical
 ALS Vial : 9 Sample Multiplier: 1

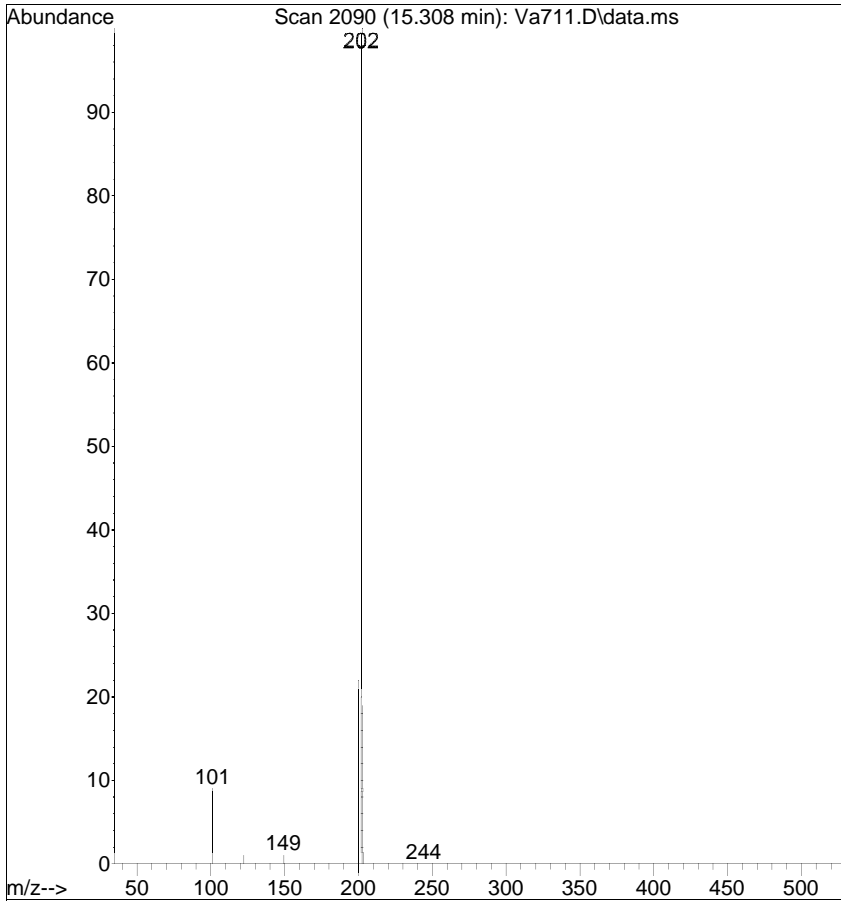
Quant Time: Jan 08 09:31:45 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.500	152	46952	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.135	136	165489	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.450	164	91165	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.407	188	191805	1.0000	ug/mL	0.00
18) Chrysene-d12	16.880	240	166929	1.0000	ug/mL	0.00
23) Perylene-d12	18.621	264	147610	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.848	88	175182m	7.9077	ug/mL	
4) Nitrobenzene-d5	8.192	82	113192	2.4739	ug/mL	88
5) Naphthalene	9.163	128	314060	1.8308	ug/mL	98
6) 2-Methylnaphthalene	10.065	142	246830	1.9823	ug/mL	96
7) 1-Methylnaphthalene	10.201	142	215489m	1.9784	ug/mL	
9) 2-Fluorobiphenyl	10.546	172	317373	1.9577	ug/mL	99
10) Acenaphthylene	11.258	152	323950	1.8339	ug/mL	98
11) Acenaphthene	11.490	154	204534	1.8377	ug/mL	92
12) Fluorene	12.168	166	251156	1.8573	ug/mL	96
14) _Pentachlorophenol	13.147	266	227	0.7350	ug/mL	91
15) Phenanthrene	13.437	178	368503	1.8732	ug/mL	97
16) Anthracene	13.502	178	360023	1.8776	ug/mL	98
17) Fluoranthene	15.007	202	449270	1.9592	ug/mL	95
19) Pyrene	15.308	202	443747m	1.7759	ug/mL	
20) Terphenyl-d14	15.494	244	373682	1.9099	ug/mL	91
21) Benzo(a)anthracene	16.865	228	414692	2.0139	ug/mL	97
22) Chrysene	16.915	228	392134	2.0609	ug/mL	95
24) Benzo(b)fluoranthene	18.185	252	399559	2.2061	ug/mL	94
25) Benzo(k)fluoranthene	18.215	252	371852	2.1023	ug/mL	94
26) Benzo(a)pyrene	18.558	252	342938	2.0458	ug/mL	99
27) Indeno(1,2,3-cd)pyrene	19.910	276	362896	1.9738	ug/mL	57
28) Dibenz(a,h)anthracene	19.916	278	299510	2.0764	ug/mL	89
29) Benzo(g,h,i)perylene	20.283	276	285749	1.8827	ug/mL	92

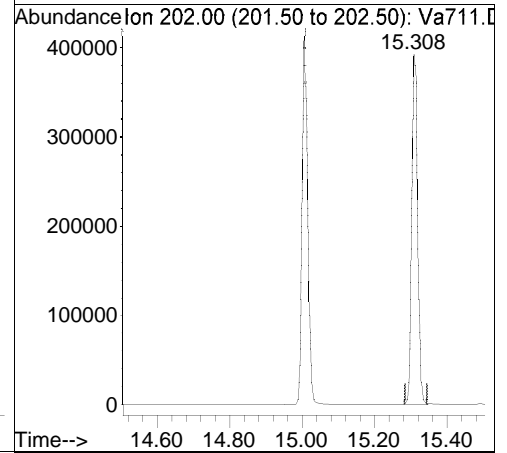
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

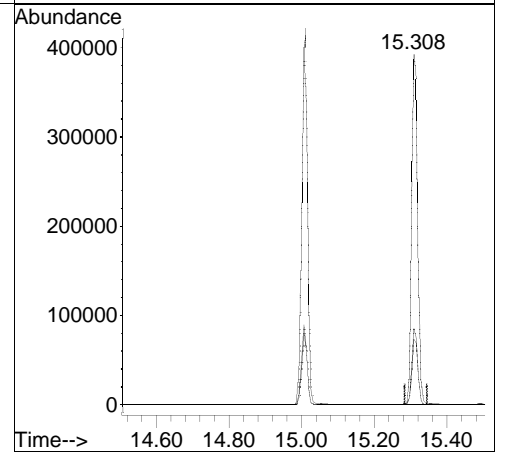
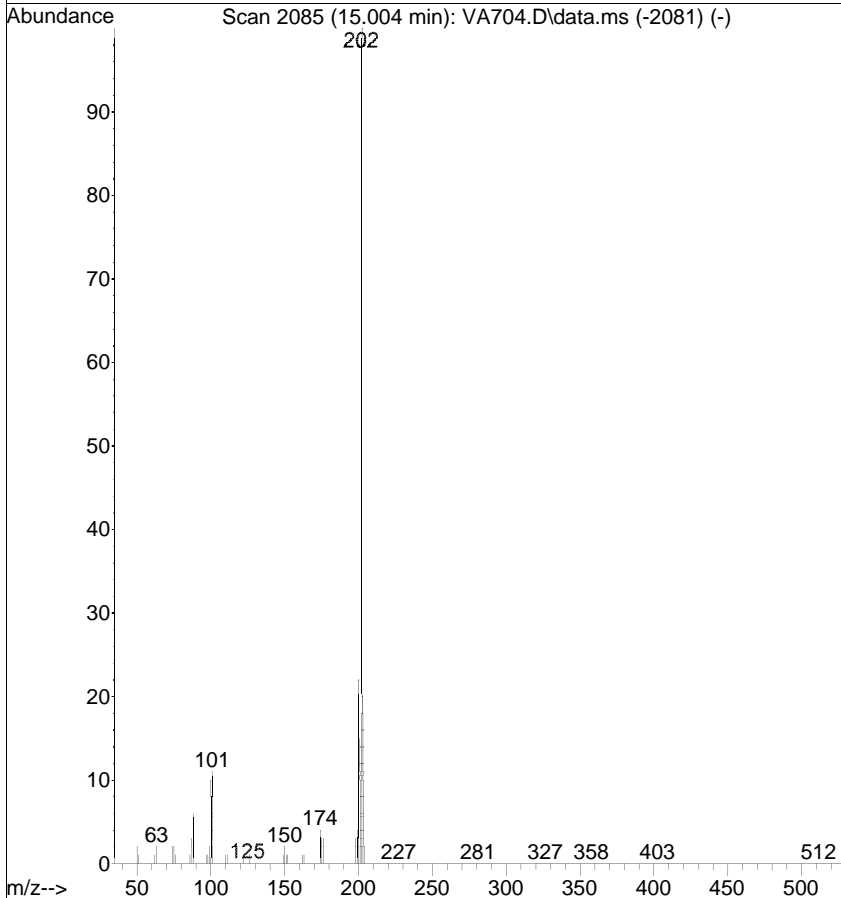


#19
 Pyrene
 Concen: 1.7759 ug/mL m
 RT: 15.308 min Scan# 2090
 Delta R.T. 0.304 min
 Lab File: Va711.D
 Acq: 7 Jan 2019 3:07 pm

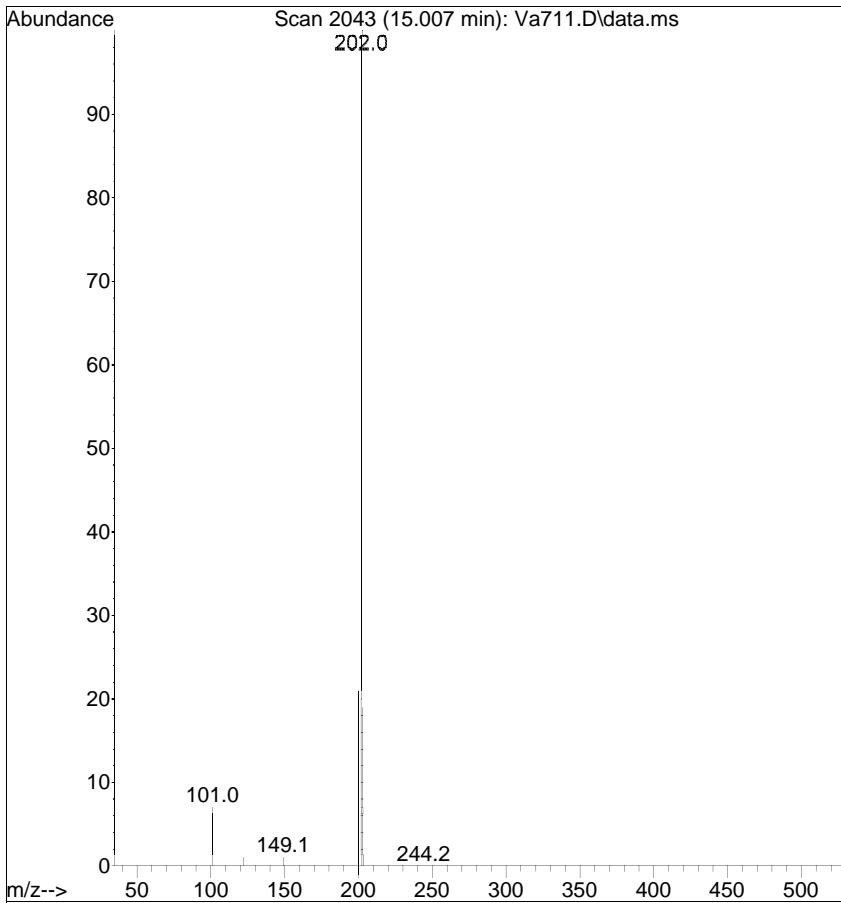
Tgt Ion	Resp	Lower	Upper
202	443747		
200	22.0	1.1	41.1
203	18.6	0.0	37.7



Ref

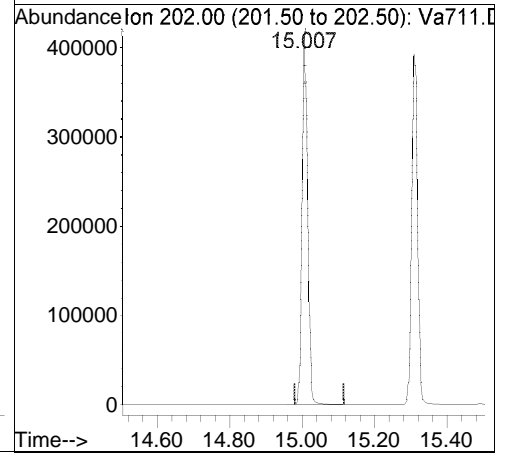


Raw

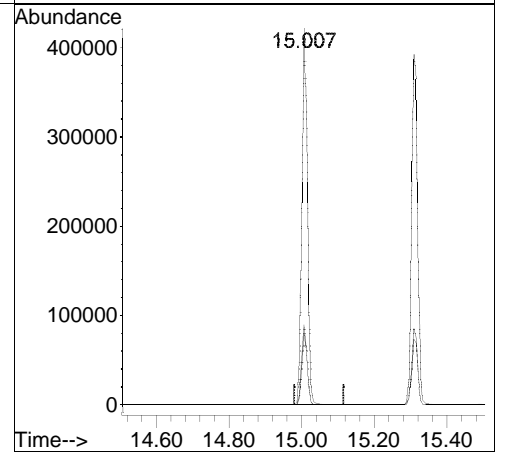
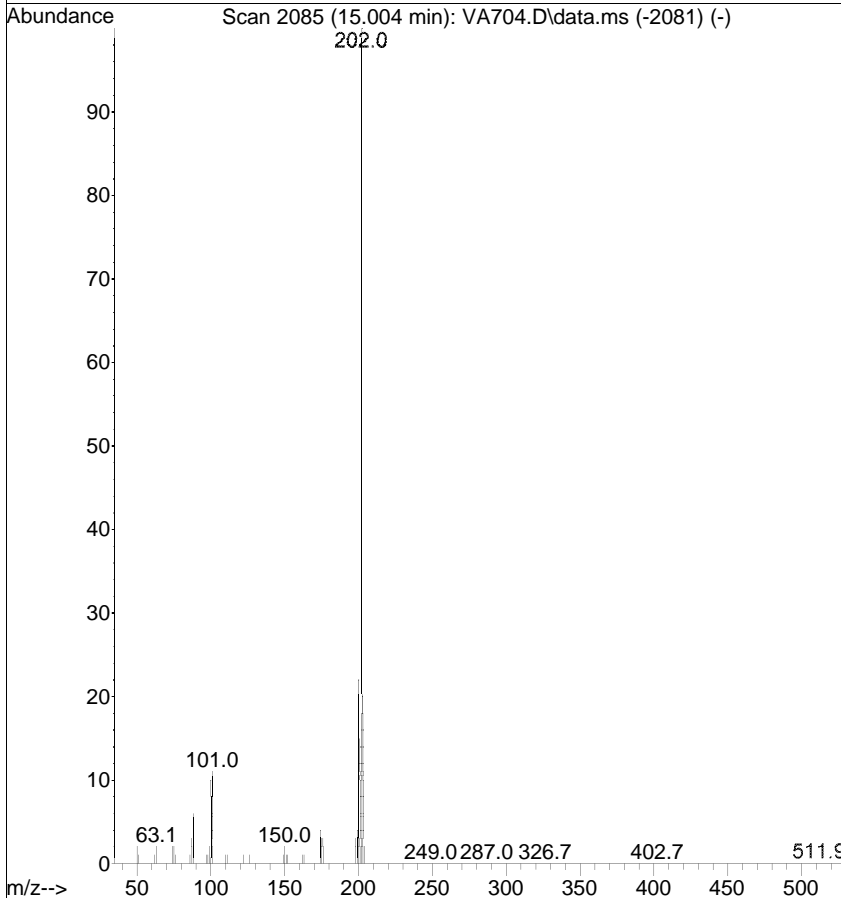


#19
 Pyrene
 Concen: 1.7980 ug/mL
 RT: 15.007 min Scan# 2043
 Delta R.T. 0.003 min
 Lab File: Va711.D
 Acq: 7 Jan 2019 3:07 pm

Tgt Ion	Resp	Lower	Upper
202	449270		
200	21.3	1.1	41.1
203	18.8	0.0	37.7



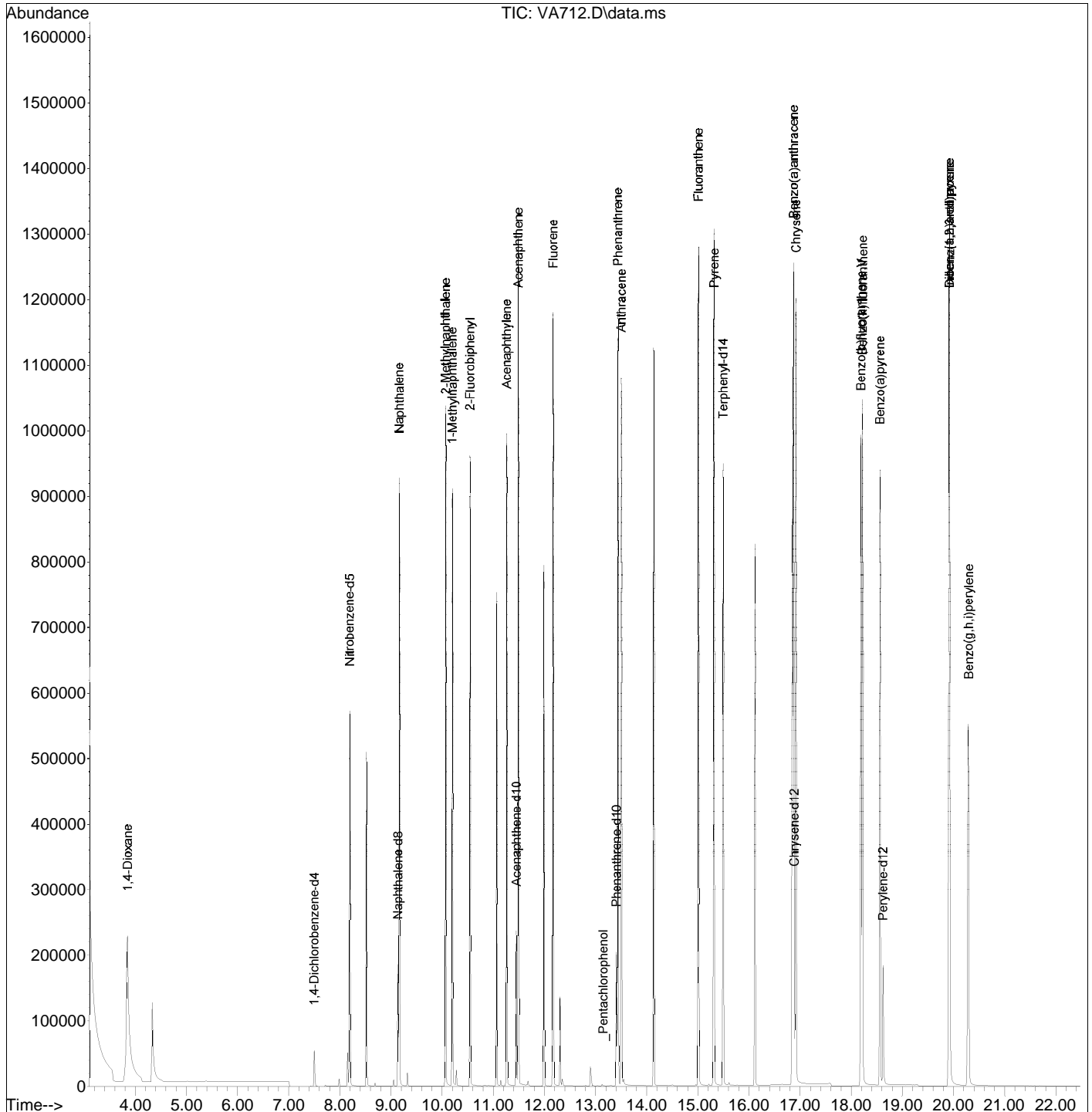
Ref



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA712.D
 Acq On : 7 Jan 2019 3:39 pm
 Operator :
 Sample : ical,s38727
 Misc : ical
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 08 09:31:56 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA712.D
 Acq On : 7 Jan 2019 3:39 pm
 Operator :
 Sample : ical,s38727
 Misc : ical
 ALS Vial : 10 Sample Multiplier: 1

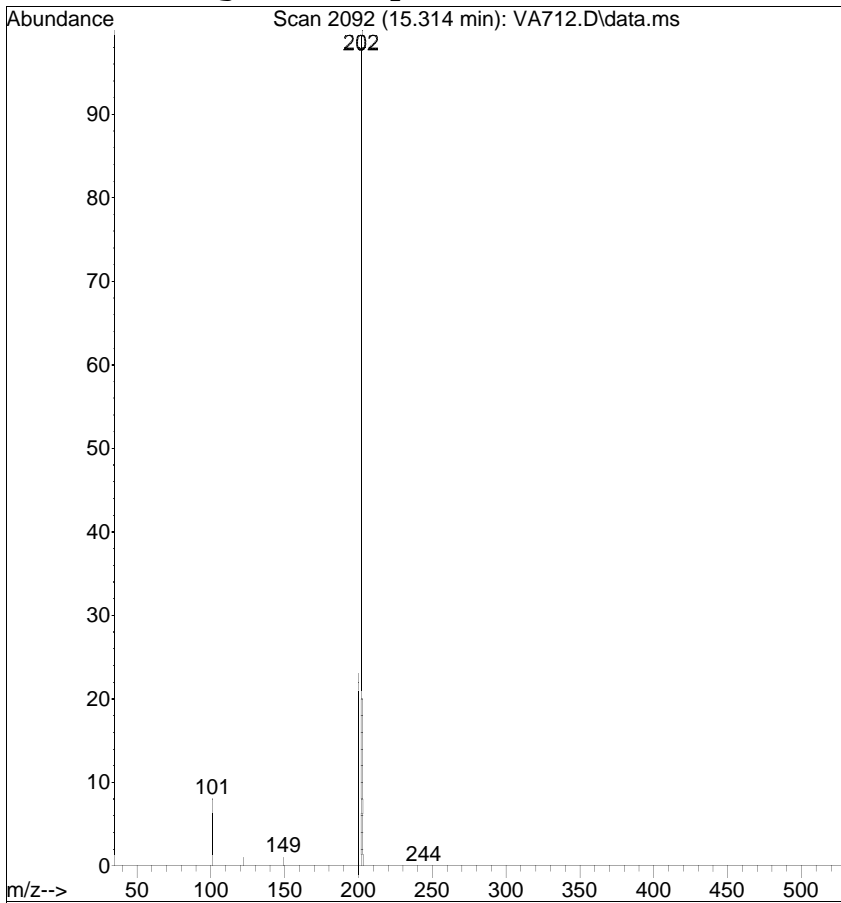
Quant Time: Jan 08 09:31:56 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.500	152	46410	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.135	136	161996	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.449	164	87615	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.407	188	185676	1.0000	ug/mL	0.00
18) Chrysene-d12	16.884	240	162339	1.0000	ug/mL	0.00
23) Perylene-d12	18.621	264	141050	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.847	88	405763	18.5301	ug/mL	# 70
4) Nitrobenzene-d5	8.192	82	265098	5.9188	ug/mL	88
5) Naphthalene	9.163	128	714489	4.2548	ug/mL	96
6) 2-Methylnaphthalene	10.069	142	561542	4.6071	ug/mL	88
7) 1-Methylnaphthalene	10.200	142	486667m	4.5644	ug/mL	
9) 2-Fluorobiphenyl	10.546	172	701268	4.5010	ug/mL	96
10) Acenaphthylene	11.262	152	720957	4.2468	ug/mL	95
11) Acenaphthene	11.489	154	463510	4.3334	ug/mL	94
12) Fluorene	12.169	166	564969	4.3471	ug/mL	98
14) _Pentachlorophenol	13.153	266	183	0.6121	ug/mL	# 69
15) Phenanthrene	13.437	178	815932	4.2845	ug/mL	95
16) Anthracene	13.502	178	796557	4.2915	ug/mL	95
17) Fluoranthene	15.013	202	994913	4.4818	ug/mL	92
19) Pyrene	15.314	202	979716m	4.0318	ug/mL	
20) Terphenyl-d14	15.494	244	841538	4.4228	ug/mL	90
21) Benzo(a)anthracene	16.869	228	928351	4.6359	ug/mL	96
22) Chrysene	16.914	228	860219	4.6487	ug/mL	97
24) Benzo(b)fluoranthene	18.188	252	899432	5.1971	ug/mL	90
25) Benzo(k)fluoranthene	18.218	252	835856	4.9453	ug/mL	90
26) Benzo(a)pyrene	18.561	252	782490	4.8851	ug/mL	96
27) Indeno(1,2,3-cd)pyrene	19.913	276	833446	4.7439	ug/mL	# 53
28) Dibenz(a,h)anthracene	19.916	278	696868	5.0559	ug/mL	87
29) Benzo(g,h,i)perylene	20.286	276	644533	4.4441	ug/mL	90

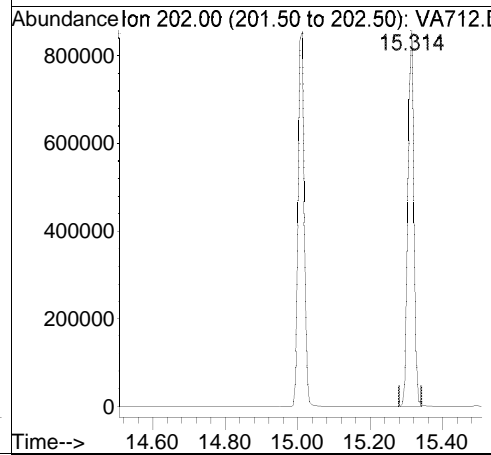
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

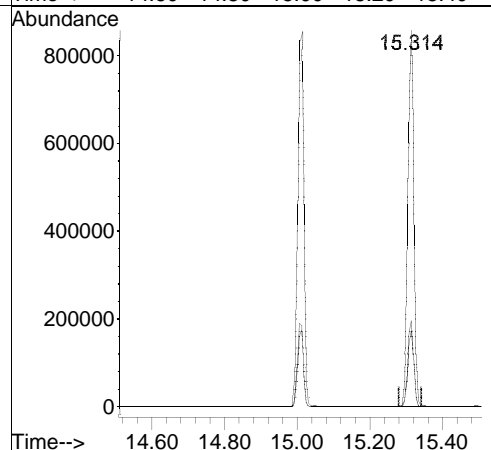
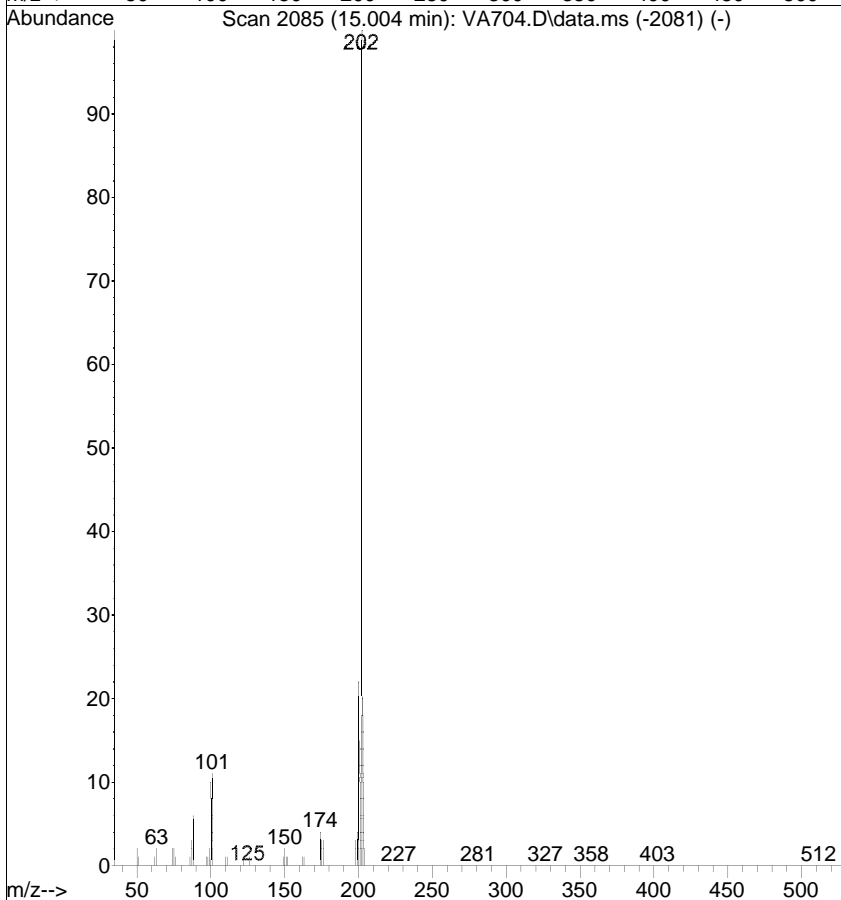


#19
 Pyrene
 Concen: 4.0318 ug/mL m
 RT: 15.314 min Scan# 2092
 Delta R.T. 0.311 min
 Lab File: VA712.D
 Acq: 7 Jan 2019 3:39 pm

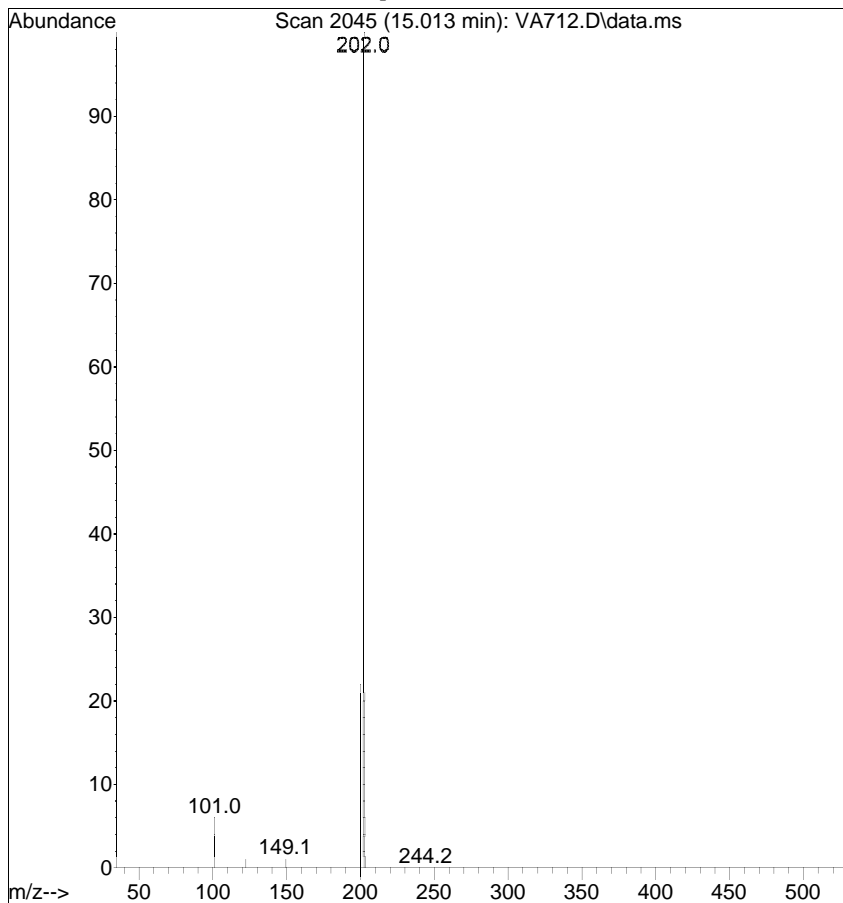
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.9	1.1	41.1
203	20.4	0.0	37.7



Ref

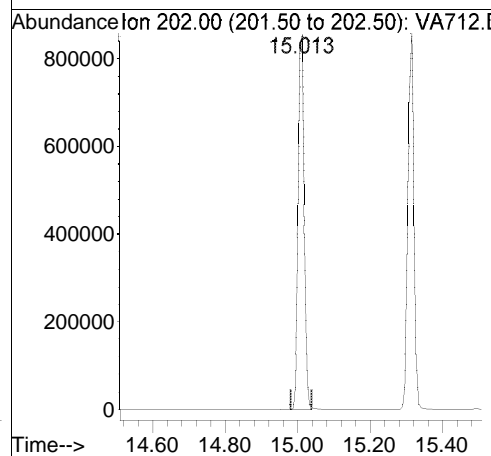


Raw

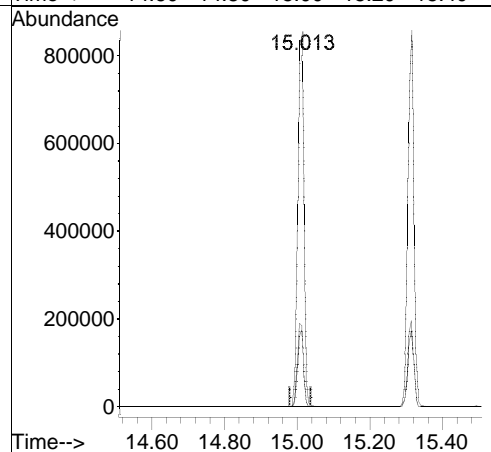
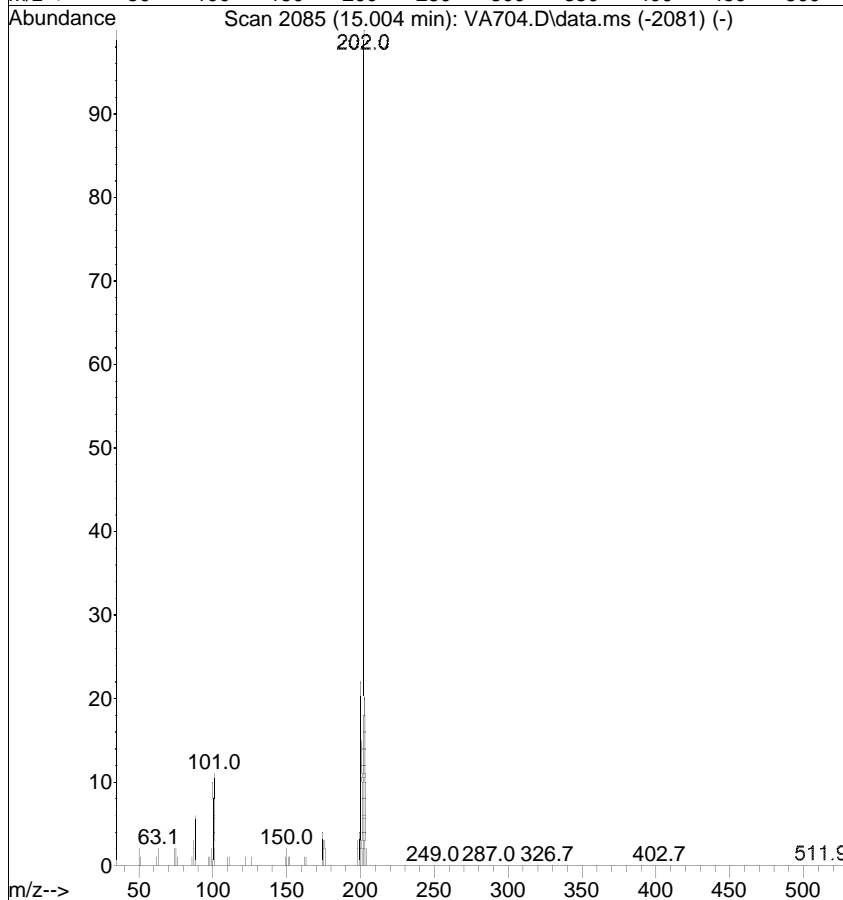


#19
 Pyrene
 Concen: 4.0943 ug/mL
 RT: 15.013 min Scan# 2045
 Delta R.T. 0.009 min
 Lab File: VA712.D
 Acq: 7 Jan 2019 3:39 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	1.1	41.1
203	20.6	0.0	37.7



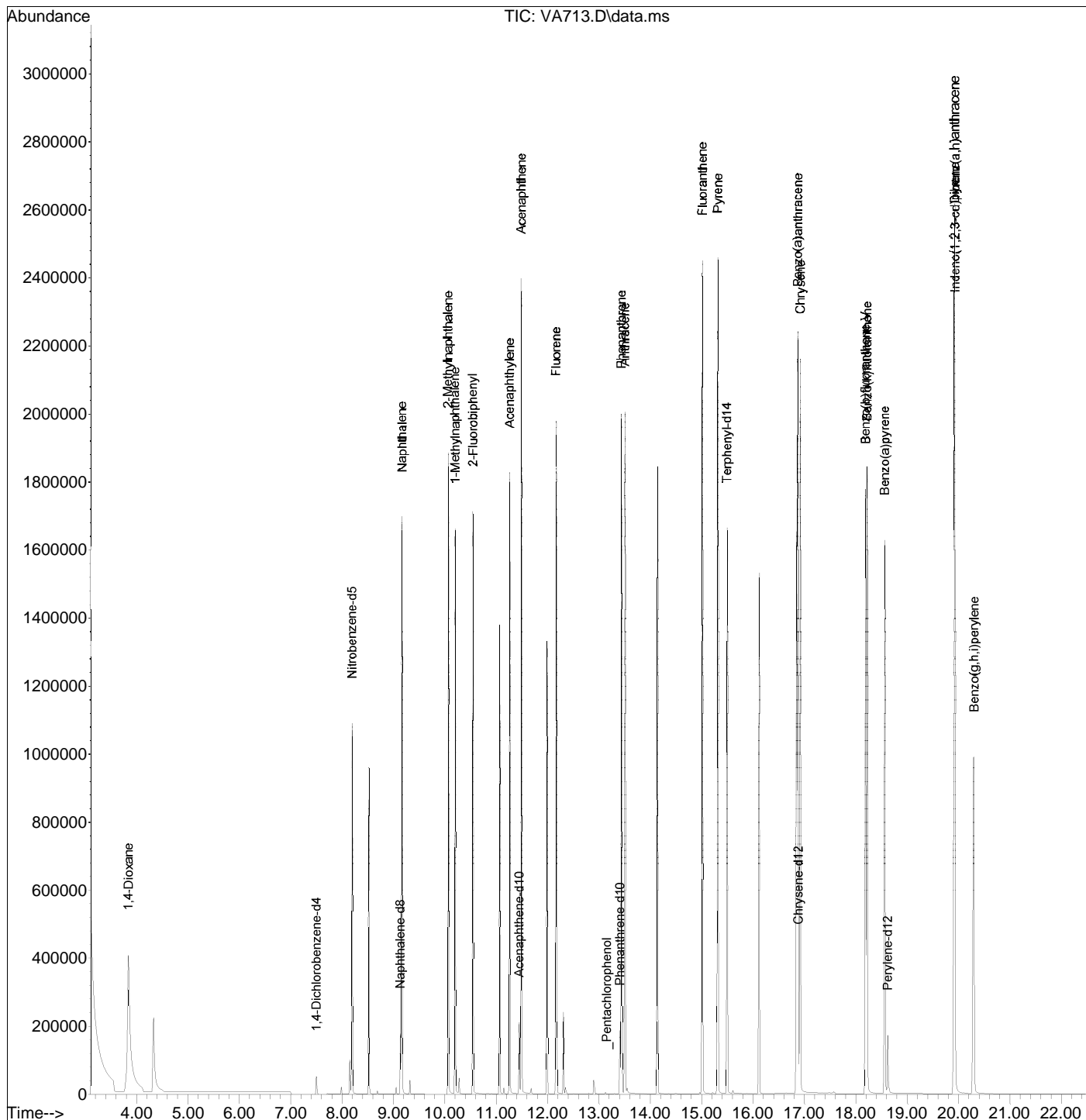
Ref



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA713.D
 Acq On : 7 Jan 2019 4:10 pm
 Operator :
 Sample : ical,s38728
 Misc : ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 08 09:32:08 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA713.D
 Acq On : 7 Jan 2019 4:10 pm
 Operator :
 Sample : ical,s38728
 Misc : ical
 ALS Vial : 11 Sample Multiplier: 1

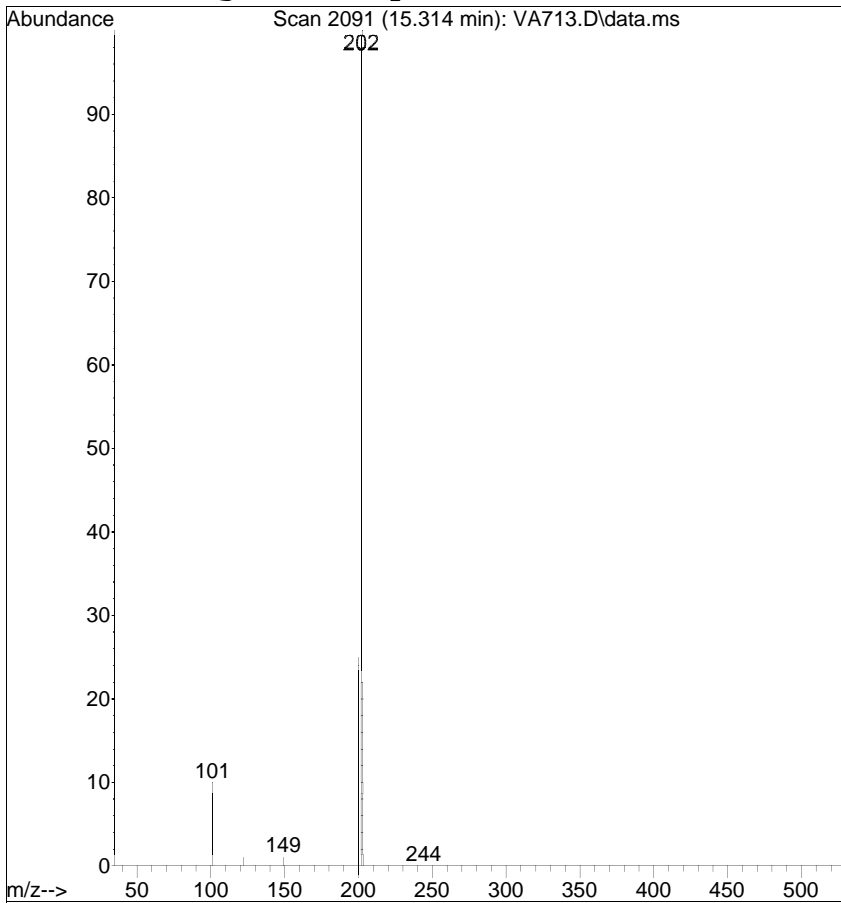
Quant Time: Jan 08 09:32:08 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Mon Jan 07 11:35:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.499	152	45400	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.133	136	156653	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.450	164	82194	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.407	188	171954	1.0000	ug/mL	0.00
18) Chrysene-d12	16.884	240	148666	1.0000	ug/mL	0.00
23) Perylene-d12	18.623	264	127115	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.838	88	745673m	34.8104	ug/mL	
4) Nitrobenzene-d5	8.193	82	515414	11.9000	ug/mL	89
5) Naphthalene	9.165	128	1323529	8.1505	ug/mL	92
6) 2-Methylnaphthalene	10.066	142	1034565	8.7775	ug/mL	99
7) 1-Methylnaphthalene	10.202	142	891473m	8.6462	ug/mL	
9) 2-Fluorobiphenyl	10.547	172	1256374	8.5957	ug/mL	93
10) Acenaphthylene	11.262	152	1297850	8.1492	ug/mL	91
11) Acenaphthene	11.490	154	856742	8.5380	ug/mL	94
12) Fluorene	12.168	166	1027206	8.4251	ug/mL	97
14) _Pentachlorophenol	13.152	266	141	0.5093	ug/mL	82
15) Phenanthrene	13.436	178	1447412	8.2070	ug/mL	91
16) Anthracene	13.507	178	1404864	8.1727	ug/mL	92
17) Fluoranthene	15.013	202	1756722	8.5451	ug/mL	87
19) Pyrene	15.314	202	1736348m	7.8027	ug/mL	
20) Terphenyl-d14	15.493	244	1514451	8.6914	ug/mL	88
21) Benzo(a)anthracene	16.869	228	1644926	8.9698	ug/mL	94
22) Chrysene	16.919	228	1485353	8.7653	ug/mL	96
24) Benzo(b)fluoranthene	18.186	252	1613575	10.3456	ug/mL	87
25) Benzo(k)fluoranthene	18.220	252	1463239	9.6063	ug/mL	86
26) Benzo(a)pyrene	18.563	252	1399721	9.6965	ug/mL	92
27) Indeno(1,2,3-cd)pyrene	19.919	276	1531761	9.6744	ug/mL	# 46
28) Dibenz(a,h)anthracene	19.923	278	1280112	10.3055	ug/mL	82
29) Benzo(g,h,i)perylene	20.293	276	1154791	8.8353	ug/mL	86

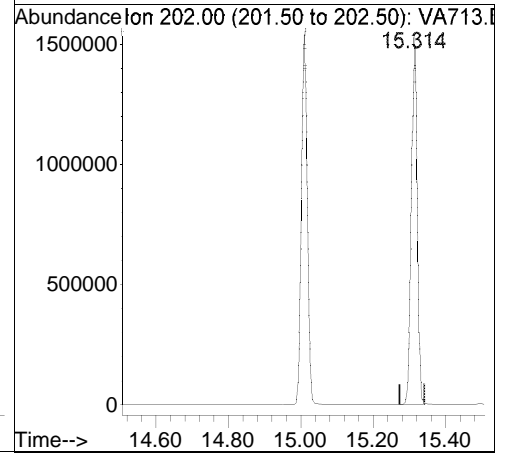
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Raw

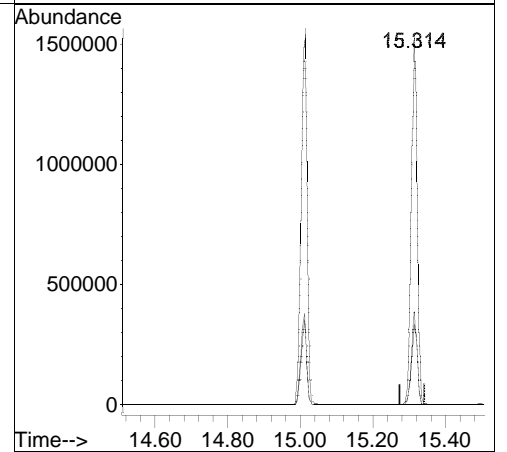
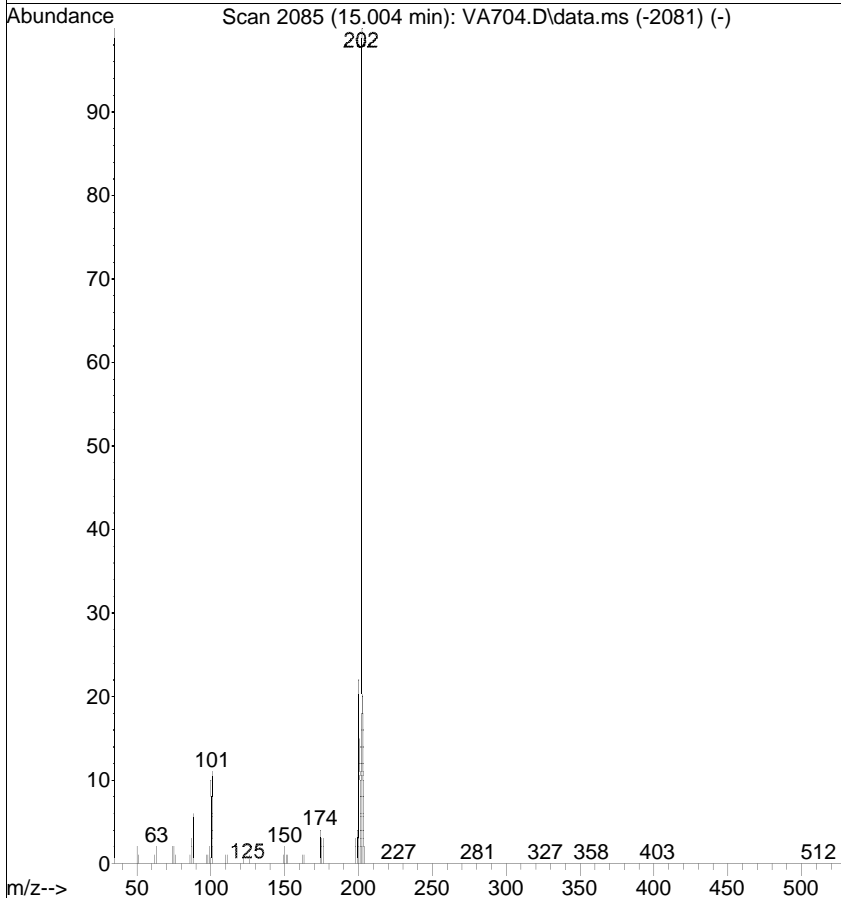


#19
 Pyrene
 Concen: 7.8027 ug/mL m
 RT: 15.314 min Scan# 2091
 Delta R.T. 0.310 min
 Lab File: VA713.D
 Acq: 7 Jan 2019 4:10 pm

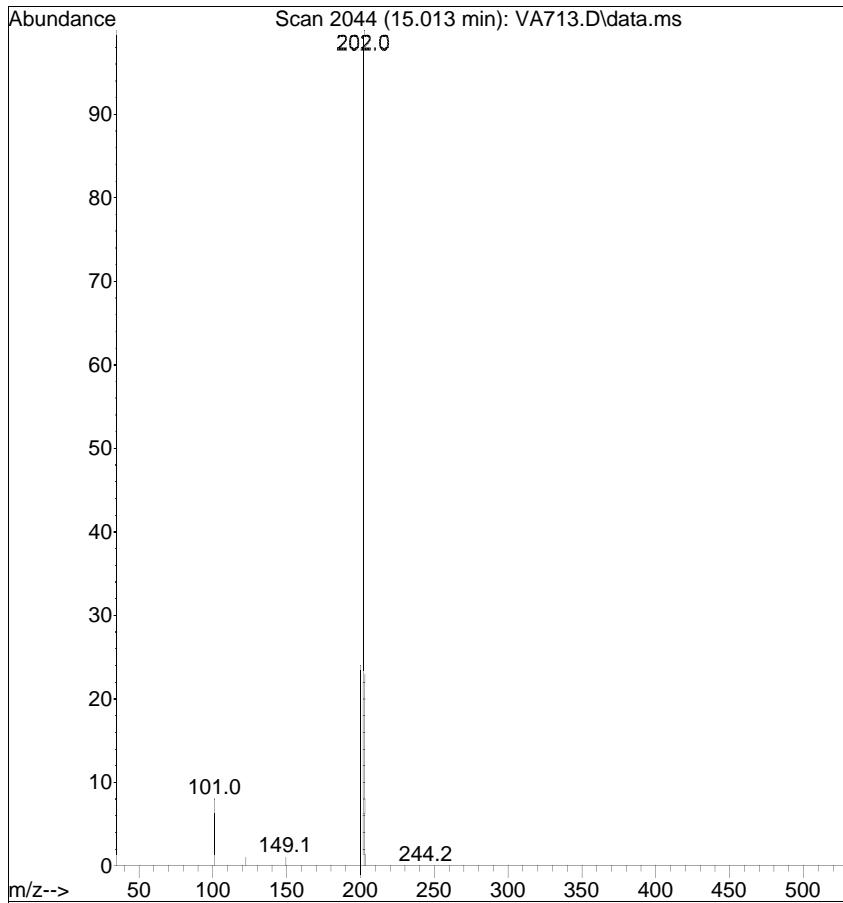
Tgt Ion	Resp	Lower	Upper
202	1736348		
200	25.3	1.1	41.1
203	21.9	0.0	37.7



Ref

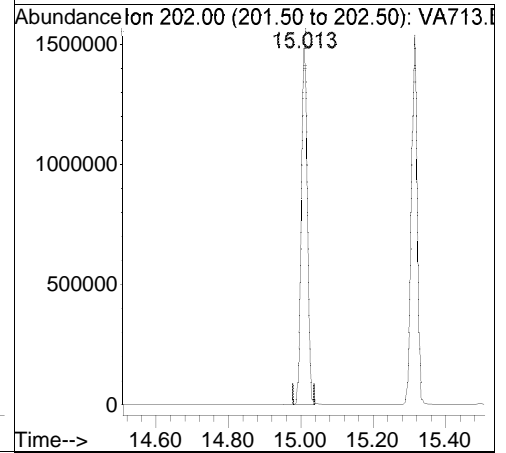


Raw

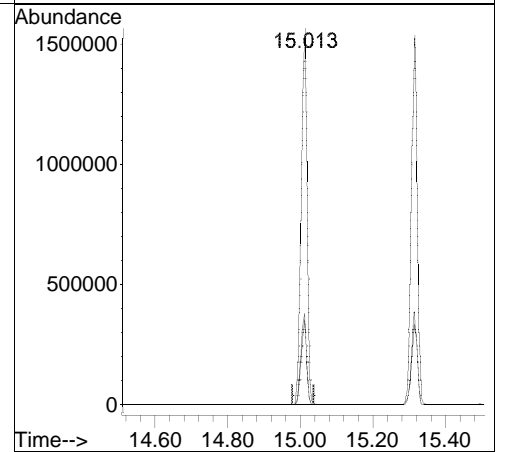
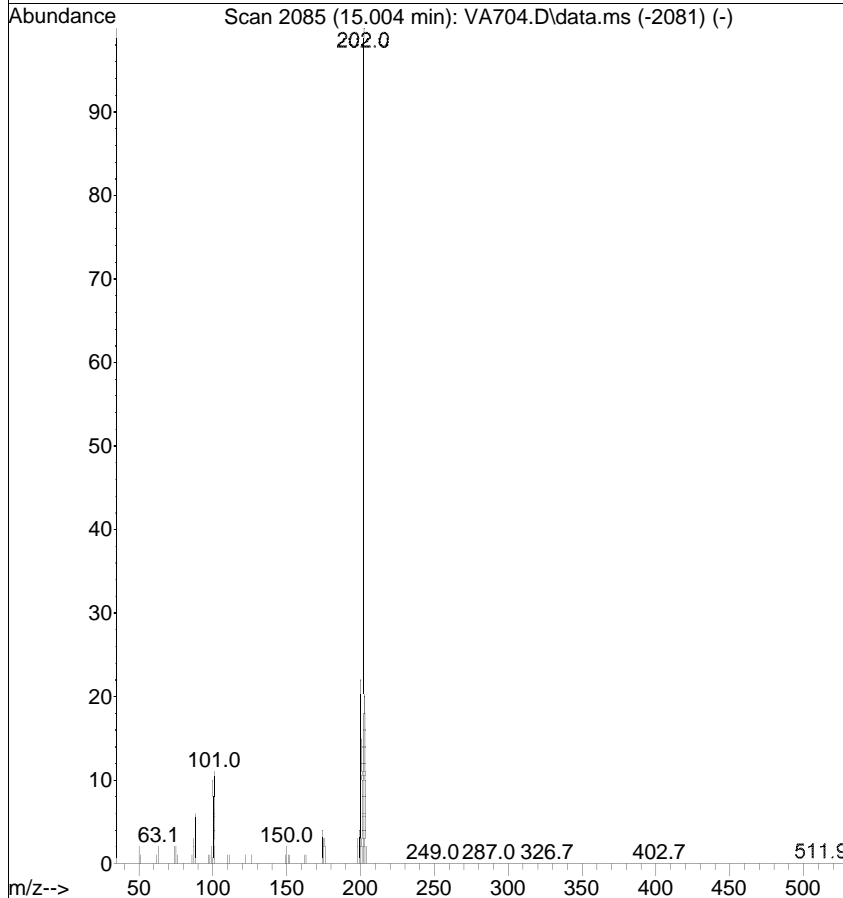


#19
 Pyrene
 Concen: 7.8943 ug/mL
 RT: 15.013 min Scan# 2044
 Delta R.T. 0.009 min
 Lab File: VA713.D
 Acq: 7 Jan 2019 4:10 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
200	24.3	1.1	41.1
203	22.6	0.0	37.7



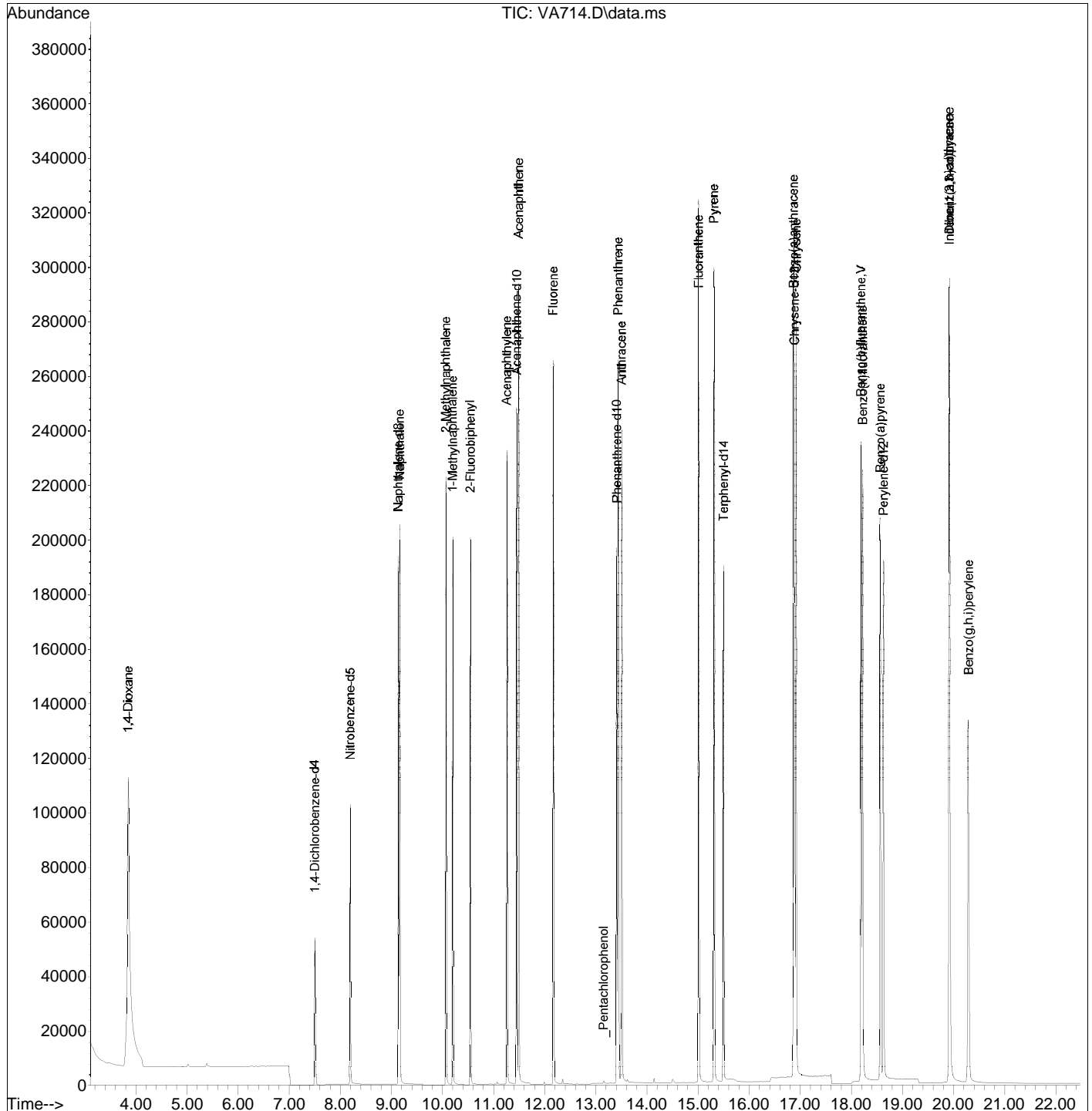
Ref



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA714.D
 Acq On : 7 Jan 2019 4:41 pm
 Operator :
 Sample : icv,s38459
 Misc : icv
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 08 09:46:59 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 08 09:42:58 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\010719\
 Data File : VA714.D
 Acq On : 7 Jan 2019 4:41 pm
 Operator :
 Sample : icv,s38459
 Misc : icv
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 08 09:46:59 2019
 Quant Method : G:\msbna03\010719\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 08 09:42:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.499	152	46043	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.133	136	166231	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.450	164	98187	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.407	188	189339	1.0000	ug/mL	0.00
18) Chrysene-d12	16.879	240	171544	1.0000	ug/mL	0.00
23) Perylene-d12	18.620	264	149169	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.849	88	189861m	11.4515	ug/mL	
4) Nitrobenzene-d5	8.193	82	47585	0.8520	ug/mL	83
5) Naphthalene	9.161	128	156980	0.9860	ug/mL	99
6) 2-Methylnaphthalene	10.066	142	115865	0.9174	ug/mL	93
7) 1-Methylnaphthalene	10.197	142	102885	0.9362	ug/mL	99
9) 2-Fluorobiphenyl	10.543	172	142970	0.8067	ug/mL	97
10) Acenaphthylene	11.258	152	165850	0.9667	ug/mL	98
11) Acenaphthene	11.490	154	100770	0.9106	ug/mL	92
12) Fluorene	12.168	166	130748	0.9519	ug/mL	95
14) _Pentachlorophenol	13.147	266	423	0.4276	ug/mL	96
15) Phenanthrene	13.437	178	188015	1.0303	ug/mL	99
16) Anthracene	13.502	178	174989	1.0209	ug/mL	98
17) Fluoranthene	15.007	202	230722	1.0447	ug/mL	97
19) Pyrene	15.308	202	228285	1.0147	ug/mL	99
20) Terphenyl-d14	15.494	244	165012	0.8609	ug/mL	91
21) Benzo(a)anthracene	16.864	228	209940	1.0055	ug/mL	98
22) Chrysene	16.914	228	201901	1.0298	ug/mL	95
24) Benzo(b)fluoranthene	18.183	252	197001	1.0108	ug/mL	96
25) Benzo(k)fluoranthene	18.214	252	191335	1.0411	ug/mL	96
26) Benzo(a)pyrene	18.557	252	175106	1.0537	ug/mL	98
27) Indeno(1,2,3-cd)pyrene	19.910	276	187996	1.0463	ug/mL	57
28) Dibenz(a,h)anthracene	19.913	278	153801	1.0413	ug/mL	91
29) Benzo(g,h,i)perylene	20.283	276	159464	1.1119	ug/mL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Continuing Calibration Verification Raw Data

ENTHALPY CONTINUING CALIBRATION FOR 306574 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 529033718003 File : van03 Time : 23-JAN-2019 10:42
 Cal : 529010667001 Caldate : 07-JAN-2019
 Standards: S38726

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	0.9578	1.0380	2.000	2.168	ug/mL	8	30	0.0500	
Acenaphthylene	1.7473	1.8959	2.000	2.170	ug/mL	9	30	0.0500	
Acenaphthene	1.1271	1.1681	2.000	2.073	ug/mL	4	20	0.0500	
Fluorene	1.3989	1.4159	2.000	2.024	ug/mL	1	30	0.0500	
Phenanthrene	0.9638	1.0047	2.000	2.085	ug/mL	4	30	0.0500	
Anthracene	0.9053	0.9980	2.000	2.205	ug/mL	10	30	0.0500	
Fluoranthene	1.1664	1.1297	2.000	1.937	ug/mL	-3	20	0.0500	
Pyrene	1.3115	1.5453	2.000	2.356	ug/mL	18	30	0.0500	
Benzo(a)anthracene	1.2172	1.2731	2.000	2.092	ug/mL	5	30	0.0500	
Chrysene	1.1429	1.2282	2.000	2.149	ug/mL	7	30	0.0500	
Benzo(b)fluoranthene	1.3065	1.2613	2.000	1.931	ug/mL	-3	30	0.0500	
Benzo(k)fluoranthene	1.2320	1.3080	2.000	2.123	ug/mL	6	30	0.0500	
Benzo(a)pyrene	1.1141	1.1761	2.000	2.111	ug/mL	6	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2045	1.2322	2.000	2.046	ug/mL	2	30	0.0500	
Dibenz(a,h)anthracene	0.9901	0.9958	2.000	2.011	ug/mL	1	30	0.0500	
Benzo(g,h,i)perylene	0.9615	0.9602	2.000	1.997	ug/mL	0	30	0.0500	
Nitrobenzene-d5	0.3360	0.4677	2.000	2.784	ug/mL	39	30	0.0500	c+
2-Fluorobiphenyl	1.8050	1.7113	2.000	1.896	ug/mL	-5	30	0.0500	
Terphenyl-d14	1.1174	1.2350	2.000	2.211	ug/mL	11	30	0.0500	

YW1 01/23/19 [1,4-Dioxane]: Corrected automatically drawn baseline.

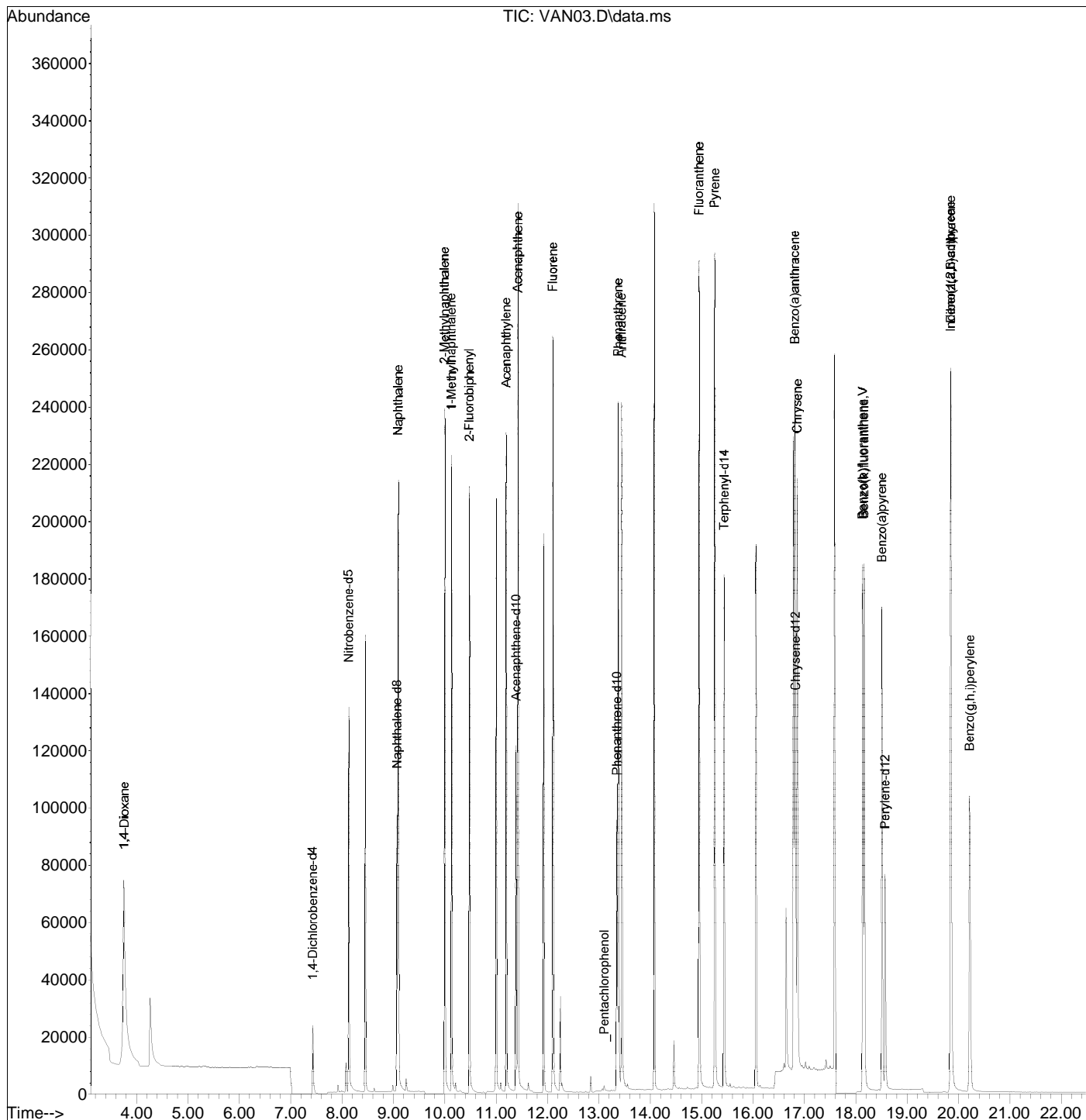
Analyst: YW1 Date: 01/23/19 Reviewer: ECI Date: 01/23/19

+=high bias c=CCV

Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\012319\
 Data File : VAN03.D
 Acq On : 23 Jan 2019 10:42 am
 Operator :
 Sample : ccv,s38726
 Misc : ccv
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 23 11:15:28 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 22 11:44:29 2019
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\msbna03\012319\
 Data File : VAN03.D
 Acq On : 23 Jan 2019 10:42 am
 Operator :
 Sample : ccv,s38726
 Misc : ccv
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 23 11:15:28 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 22 11:44:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.429	152	21512	1.0000	ug/mL	0.00
3) Naphthalene-d8	9.065	136	83666	1.0000	ug/mL	0.00
8) Acenaphthene-d10	11.383	164	46943	1.0000	ug/mL	0.00
13) Phenanthrene-d10	13.346	188	93369	1.0000	ug/mL	0.00
18) Chrysene-d12	16.825	240	68125	1.0000	ug/mL	0.00
23) Perylene-d12	18.567	264	63350	1.0000	ug/mL	0.00

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.758	88	113288m	14.6250	ug/mL	
4) Nitrobenzene-d5	8.129	82	78259	2.7839	ug/mL	# 76
5) Naphthalene	9.093	128	173690	2.1675	ug/mL	94
6) 2-Methylnaphthalene	9.999	142	133680	2.1029	ug/mL	95
7) 1-Methylnaphthalene	10.130	142	115264	2.0840	ug/mL	99
9) 2-Fluorobiphenyl	10.476	172	160667	1.8962	ug/mL	90
10) Acenaphthylene	11.195	152	177999	2.1701	ug/mL	95
11) Acenaphthene	11.423	154	109665	2.0727	ug/mL	96
12) Fluorene	12.103	166	132932	2.0243	ug/mL	99
14) _Pentachlorophenol	13.098	266	1006	2.0622	ug/mL	96
15) Phenanthrene	13.376	178	187620	2.0849	ug/mL	98
16) Anthracene	13.441	178	186356	2.2047	ug/mL	98
17) Fluoranthene	14.950	202	210961	1.9370	ug/mL	96
19) Pyrene	15.251	202	210543	2.3564	ug/mL	99
20) Terphenyl-d14	15.437	244	168267	2.2105	ug/mL	85
21) Benzo(a)anthracene	16.810	228	173456	2.0918	ug/mL	98
22) Chrysene	16.860	228	167337	2.1493	ug/mL	95
24) Benzo(b)fluoranthene	18.130	252	159813	1.9309	ug/mL	96
25) Benzo(k)fluoranthene	18.160	252	165722	2.1233	ug/mL	96
26) Benzo(a)pyrene	18.506	252	149010	2.1113	ug/mL	97
27) Indeno(1,2,3-cd)pyrene	19.843	276	156116	2.0460	ug/mL	# 23
28) Dibenz(a,h)anthracene	19.847	278	126170	2.0114	ug/mL	# 88
29) Benzo(g,h,i)perylene	20.213	276	121655	1.9973	ug/mL	# 90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ENTHALPY CONTINUING CALIBRATION FOR 306574 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : CCV IDF : 1.0
 Seqnum : 529050994006 File : vb406 Time : 04-FEB-2019 11:43
 Cal : 529010667001 Caldate : 07-JAN-2019
 Standards: S38725

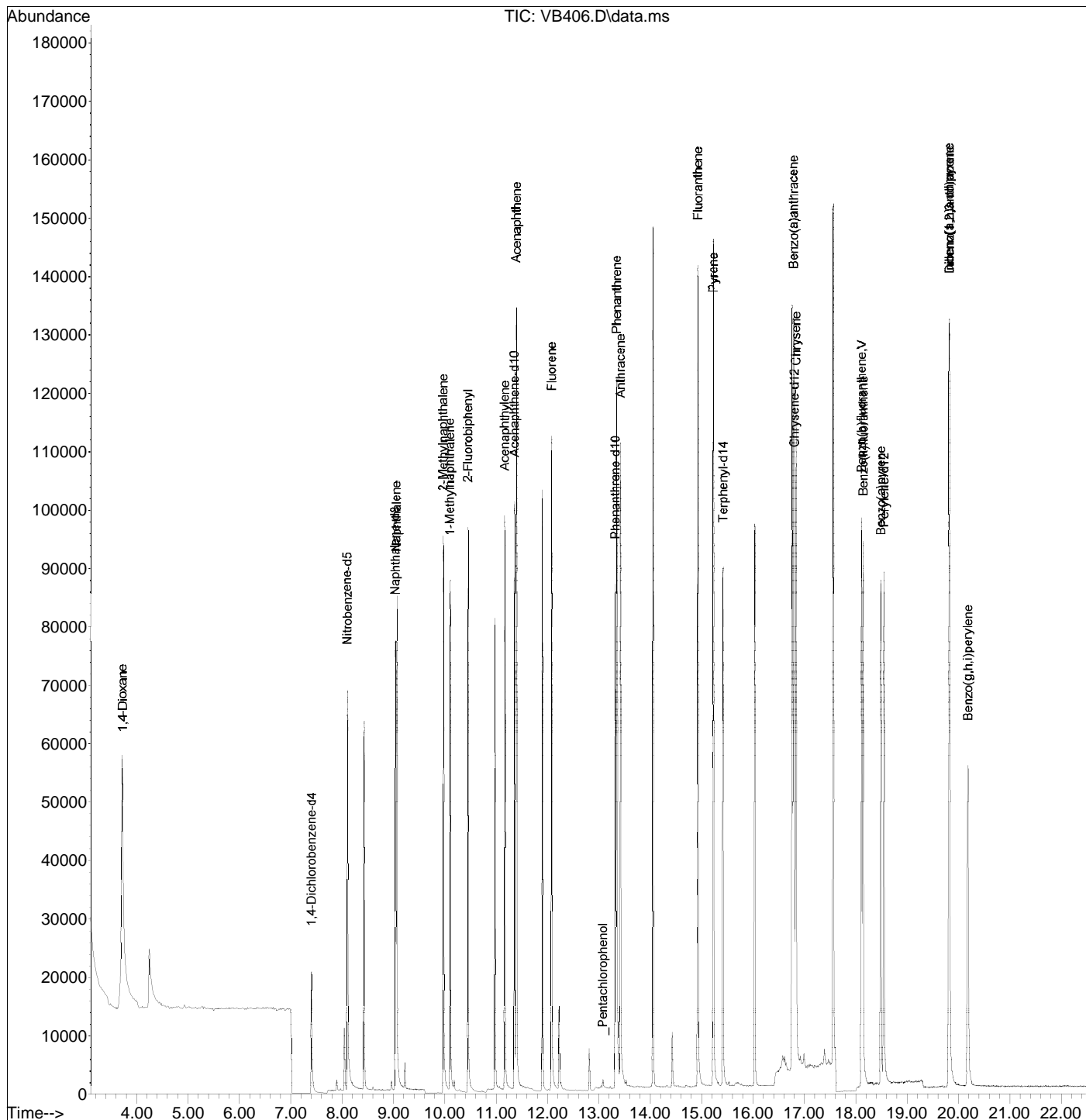
Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Naphthalene	0.9578	1.0762	1.000	1.124	ug/mL	12	30	0.0500	
Acenaphthylene	1.7473	1.9410	1.000	1.111	ug/mL	11	30	0.0500	
Acenaphthene	1.1271	1.2878	1.000	1.143	ug/mL	14	20	0.0500	
Fluorene	1.3989	1.5514	1.000	1.109	ug/mL	11	30	0.0500	
Phenanthrene	0.9638	1.0306	1.000	1.069	ug/mL	7	30	0.0500	
Anthracene	0.9053	1.0197	1.000	1.126	ug/mL	13	30	0.0500	
Fluoranthene	1.1664	1.2351	1.000	1.059	ug/mL	6	20	0.0500	
Pyrene	1.3115	1.4996	1.000	1.143	ug/mL	14	30	0.0500	
Benzo(a)anthracene	1.2172	1.2256	1.000	1.007	ug/mL	1	30	0.0500	
Chrysene	1.1429	1.1753	1.000	1.028	ug/mL	3	30	0.0500	
Benzo(b)fluoranthene	1.3065	1.2428	1.000	0.9512	ug/mL	-5	30	0.0500	
Benzo(k)fluoranthene	1.2320	1.2527	1.000	1.017	ug/mL	2	30	0.0500	
Benzo(a)pyrene	1.1141	1.1563	1.000	1.038	ug/mL	4	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2045	1.2989	1.000	1.078	ug/mL	8	30	0.0500	
Dibenz(a,h)anthracene	0.9901	1.0287	1.000	1.039	ug/mL	4	30	0.0500	
Benzo(g,h,i)perylene	0.9615	1.0290	1.000	1.070	ug/mL	7	30	0.0500	
Nitrobenzene-d5	0.3360	0.3824	1.000	1.138	ug/mL	14	30	0.0500	
2-Fluorobiphenyl	1.8050	1.8517	1.000	1.026	ug/mL	3	30	0.0500	
Terphenyl-d14	1.1174	1.1459	1.000	1.026	ug/mL	3	30	0.0500	

Analyst: ECI Date: 02/04/19 Reviewer: LW Date: 02/04/19

Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\020419\
 Data File : VB406.D
 Acq On : 4 Feb 2019 11:43 am
 Operator :
 Sample : ccv,s38725
 Misc : ccv
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:05:53 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 29 11:12:04 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : G:\csinput.net\DATA\020419\
 Data File : VB406.D
 Acq On : 4 Feb 2019 11:43 am
 Operator :
 Sample : ccv,s38725
 Misc : ccv
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:05:53 2019
 Quant Method : C:\msdchem\1\METHODS\3PAHSIM.M
 Quant Title : MSBNA03 BNASIM
 QLast Update : Tue Jan 29 11:12:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc.	Units	Rel.RT
1) 1,4-Dichlorobenzene-d4	7.403	152	18858	1.0000	ug/mL	-0.02
3) Naphthalene-d8	9.038	136	68247	1.0000	ug/mL	-0.02
8) Acenaphthene-d10	11.356	164	39412	1.0000	ug/mL	-0.02
13) Phenanthrene-d10	13.316	188	88300	1.0000	ug/mL	-0.02
18) Chrysene-d12	16.801	240	74054	1.0000	ug/mL	-0.02
23) Perylene-d12	18.543	264	71368	1.0000	ug/mL	-0.02

Target Compounds	R.T.	QIon	Response	Conc.	Units	Qvalue
2) 1,4-Dioxane	3.721	88	37213	5.4801	ug/mL	# 1
4) Nitrobenzene-d5	8.101	82	26101	1.1382	ug/mL	# 3
5) Naphthalene	9.062	128	73447	1.1236	ug/mL	99
6) 2-Methylnaphthalene	9.969	142	55916	1.0784	ug/mL	100
7) 1-Methylnaphthalene	10.100	142	48731	1.0801	ug/mL	96
9) 2-Fluorobiphenyl	10.450	172	72980	1.0259	ug/mL	98
10) Acenaphthylene	11.164	152	76497	1.1108	ug/mL	98
11) Acenaphthene	11.396	154	50756	1.1426	ug/mL	89
12) Fluorene	12.077	166	61142	1.1090	ug/mL	99
14) _Pentachlorophenol	13.074	266	979	2.1221	ug/mL	87
15) Phenanthrene	13.346	178	91000	1.0693	ug/mL	97
16) Anthracene	13.417	178	90042	1.1264	ug/mL	98
17) Fluoranthene	14.924	202	109056	1.0588	ug/mL	97
19) Pyrene	15.225	202	111052	1.1434	ug/mL	97
20) Terphenyl-d14	15.411	244	84859	1.0255	ug/mL	99
21) Benzo(a)anthracene	16.786	228	90757	1.0069	ug/mL	99
22) Chrysene	16.830	228	87032	1.0283	ug/mL	98
24) Benzo(b)fluoranthene	18.106	252	88693	0.9512	ug/mL	98
25) Benzo(k)fluoranthene	18.136	252	89403	1.0168	ug/mL	98
26) Benzo(a)pyrene	18.480	252	82523	1.0379	ug/mL	96
27) Indeno(1,2,3-cd)pyrene	19.813	276	92698	1.0784	ug/mL	72
28) Dibenz(a,h)anthracene	19.813	278	73415	1.0389	ug/mL	92
29) Benzo(g,h,i)perylene	20.176	276	73436	1.0702	ug/mL	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 306574

ANALYTICAL REPORT

Wet Chemistry

TRC Solutions Inc.
505 Sansome St
San Francisco, CA 94111

Project : 285830.02A.01
Location : Riley Soil Investigation
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	306574-001
BR11-1GW02	306574-002
BR11-1GW03	306574-003
DUP01182019-01	306574-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 02/05/2019

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

**CASE NARRATIVE
WET CHEMISTRY (SM2540C)**

Laboratory number: 306574
Client: TRC Solutions Inc.
Project: 285830.02A.01
Location: Riley Soil Investigation
Request Date: 01/18/19
Samples Received: 01/18/19

This data package contains sample and QC results for four water samples, requested for the above referenced project on 01/18/19. See attached cooler receipt form for any sample receipt problems or discrepancies.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 306574
Date Received: 1/18/19

Client: TRC
Project: _____

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)
If no cooler Sample Temp (°C): _____ using IR Gun # A, or B
 Samples received on ice directly from the field. Cooling process had begun
If in cooler: Date Opened 1/18/19 By (print) AC (sign) _____
Shipping info (if applicable) _____
Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
Type of ice used: Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
Temperature measured using Thermometer ID: _____, or IR Gun # A B
Cooler Temp (°C): #1: 4.2, #2: 4.9, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	/		
Were Method 5035 sampling containers present?			/
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm absent in VOA samples?		/	
Was the client contacted concerning this sample delivery?		/	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			/
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6: Explanations/Comments: X Sample 5 1/1 VO2's arrived with bubbles

Date Logged In 1/18/19 By (print) AC (sign) _____
Date Labeled 1/19/19 By (print) AC (sign) _____

Results & QC Summary

Total Dissolved Solids (TDS)			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	METHOD
Project#:	285830.02A.01	Analysis:	SM2540C
Analyte:	Total Dissolved Solids	Sampled:	01/18/19
Matrix:	Water	Received:	01/18/19
Units:	mg/L	Prepared:	01/23/19
Diln Fac:	1.000	Analyzed:	01/24/19
Batch#:	267199		

Field ID	Type	Lab ID	Result	RL
BR11-1GW01	SAMPLE	306574-001	650	10
BR11-1GW02	SAMPLE	306574-002	410	10
BR11-1GW03	SAMPLE	306574-003	960	10
DUP01182019-01	SAMPLE	306574-004	660	10
	BLANK	QC962393	ND	10

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Dissolved Solids (TDS)			
Lab #:	306574	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	METHOD
Project#:	285830.02A.01	Analysis:	SM2540C
Analyte:	Total Dissolved Solids	Batch#:	267199
Field ID:	ZZZZZZZZZZ	Sampled:	01/17/19
MSS Lab ID:	306529-005	Received:	01/17/19
Matrix:	Water	Prepared:	01/23/19
Units:	mg/L	Analyzed:	01/24/19
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
BS	QC962394		90.20	92.00		102	80-121		
BSD	QC962395		90.20	94.00		104	80-121	2	5
SDUP	QC962396	<10.00		<10.00	10.00			NC	5

NC= Not Calculated

RL= Reporting Limit

RPD= Relative Percent Difference

Enthalpy Analytical - Berkeley Sample Batch Report

Batch Number: 267199
 Date Started: 23-JAN-2019
 Batched by : Eleanor H. Su

Analysis : TDS
 Bgroup : N/A
 Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
306507-001		CH2M	Water	TDS	24-JAN-2019
306529-002		Cameron-Cole, LLC	Water	TDS	24-JAN-2019
306529-003		Cameron-Cole, LLC	Water	TDS	24-JAN-2019
306529-004		Cameron-Cole, LLC	Water	TDS	24-JAN-2019
306529-005		Cameron-Cole, LLC	Water	TDS	24-JAN-2019
306574-001		TRC Solutions Inc.	Water	TDS	24-JAN-2019
306574-002		TRC Solutions Inc.	Water	TDS	24-JAN-2019
306574-003		TRC Solutions Inc.	Water	TDS	24-JAN-2019
306574-004		TRC Solutions Inc.	Water	TDS	24-JAN-2019
QC962393	BLANK		Water	TDS	
QC962394	BS		Water	TDS	
QC962395	BSD		Water	TDS	
QC962396	SDUP	of 306529-005	Water	TDS	

Analysis: Total Dissolved Solid Analyst: EHS Filtration Date: 1/23/19 14:43 (B): (C):
 Method: SMWW 2540C Batch #: 267199 Analysis Date: 1/24/19 9:48 (C):
 SOP#: tds_rv 14.doc Matrix: Water

Sample	Sample #	.PD	.AD	Sample Vol (mL)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	Report (mg/L)	Reporting Limit (mg/L)	Spike Vol. Used (mL)	Spike Std Conc (mg/L)	Spike (mg/L)	%Rec.	RPD,%
BLANK	QC962393	A	A	50	59.9506	59.9499	-0.0007	ND	10	10				
LCS/BS	QC962394	A	A	50	70.9347	70.9393	0.0046	92.0	10	50	90.2	90.2	102	
BSD	QC962395	A	A	50	70.1343	70.1390	0.0047	94.0	10	50	90	90	104	2
Sample1	306529-005	A	A	50	67.1720	67.1724	0.0004	ND	10					
SDUP 1	QC962396	A	A	50	67.1474	67.1478	0.0004	ND	10					NC
Sample11														
SDUP 2														
Sample2	306529-004	A	A	50	68.1116	68.1409	0.0293	586.0	10					
Sample3	306529-003	A	A	50	60.3534	60.3898	0.0364	728.0	10					
Sample4	306529-002	A	A	50	71.7700	71.8078	0.0378	756.0	10					
Sample5	306507-001	A	A	50	69.2225	69.2557	0.0332	664.0	10					
Sample6	306574-001	A	A	50	68.9113	68.9440	0.0327	654.0	10					
Sample7	306574-002	A	A	50	69.5892	69.6097	0.0205	410.0	10					
Sample8	306574-003	A	A	50	69.4681	69.5163	0.0482	964.0	10					
Sample9	306574-004	A	A	50	70.9503	70.9832	0.0329	658.0	10					
Sample10														
Sample12														
Sample13														
Sample14														
Sample15														
Sample16														
Sample17														
Sample18														
Sample19														
Sample20														

TDS (mg/L) = (Constant Wt (g) - Initial Wt (g)) * 1,000,000 / Sample Vol (mL)

TDS by SMWW 2540C
 Total Solids by SMWW 2540B

Enthalpy Analytical LLC - Berkeley
v 7.3, July 2017

LIMS Batch #: 267199
Filtered by: QMS

Prep Date: 01/23/19
Prep Time: 14:43

Benchbook#: **BK 4335**
Page: **24**

EC Meter ID: EL01
EC Cal Std S#: 39052 exp: 01/30/20
EC Std (uS/cm): 100
Vol Used (mL): 50
Final Vol (mL): 50

Filter Mfg/ Lot#: 600020-832-CM

Spike Std LIMS#: 38606
Std Exp Date: 03/29/19
Spike Std Conc (mg/L): 90.2
Spike Std Vol Added (mL): 50
Pipette ID/lot#: NA

Balance ID: B-1
Balance is calibrated? Yes No

	In	Out	In-2	Out-2	In-3	Out-3
Date:	01/23/19	01/24/19	01/24/19	01/24/19		01/24/19
Time:	15:19	09:48	11:32	12:32		
Min/Max Range (°C):	95	165	165	165		
Thermometer ID:	W04	W04	W04	W04		
Weighed by:		QMS		QMS		

Sample #	Container ID	EC Value (uS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt (g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
MB	-	-	50	B0N	59.9506	59.9493	59.9499	-
BS	-	-		TAN	70.9397	70.9394	70.9393	
BSP	-	-		YP	70.1343	70.1390	70.1391	
306529-005	K	19.92		EVA	67.1720	67.1725	67.1724	
↓ SDUP	K	19.92		V0W	67.1474	67.1480	67.1478	
306529-004	K	1039		MOMP	68.1116	68.1405	68.1409	
↓ -003	K	1271		VST	60.3534	60.3896	60.3899	
↓ -002	K	1288		TREA	71.9700	71.8074	71.8078	
306507-001	A	1148		LAMP	69.2225	69.2553	69.2557	
306574-001	E	1130		YHM	68.9113	68.9437	68.9440	
↓ -002	E	667		KRO	69.5892	69.6100	69.6097	
↓ -003	E	1642		ARM	69.4681	69.5166	69.5163	
↓ -004	E	1131		FE38	70.9503	70.9828	70.9832	
01/24/19								

*Constant weight must be within 0.0005 from previous reading.

QMS 01/23/19
Analyst / Date

Continued on p. _____
Continued from p. _____

1-24-19
Reviewed by / Date

PROJECT

Notebook No. _____

DATE ANALYST 0.5000 100.000 Continued From Page Serial # Level

For
Monthly

DATE	ANALYST	0.5000	100.000	Serial #	Level
12/07/18	PGH	0.5000	99.9987	A306	✓
12/10/18	PGH	0.5000	99.9985	A306	✓
12/11/18	PGH	0.5000	99.9987	A306	✓
12/12/18	EHJ	0.5000	99.9989	A306	✓
12/13/18	EHJ	0.5000	99.9992	A306	✓
12/14/18	PGH	0.5000	99.9982	A306	✓
12/17/18	EHJ	0.5000	99.9996	A306	✓
12/18/18	PGH	0.5000	99.9981	A306	✓
12/19/18	EHJ	0.5000	99.9984	A306	✓
12/20/18	PGH	0.5000	99.9983	A306	✓
12/21/18	PGH	0.5000	99.9982	A306	✓
12/24/18	PGH	0.5000	99.9979	A306	✓
12/27/18	PGH	0.5000	99.9981	A306	✓
12/28/18	PGH	0.5000	99.9982	A306	✓
12/28/18	PGH	0.5000	99.9983	A306	✓
1/2/19	PGH	0.5000	99.9973	A306	✓
1/3/19	PGH	0.5000	99.9972	A306	✓
1/4/19	PGH	0.5000	99.9974	A306	✓
01/07/19	EHJ	0.5000	99.9987	A306	✓
1/8/19	PGH	0.5000	99.9978	A306	✓
1/9/19	PGH	0.5000	99.9978	A306	✓
01/10/19	EHJ	0.5000	99.9989	A306	✓
01/11/19	PGH	0.5000	99.9980	A306	✓
01/14/19	PGH	0.5000	99.9975	A306	✓
01/15/19	EHJ	0.5000	99.9984	A306	✓
01/14/19	PGH	0.5000	99.9982	A306	✓
01/17/19	PGH	0.5000	99.9978	A306	✓
01/18/19	EHJ	0.5000	99.9989	A306	✓
01/21/19	PGH	0.5000	99.9975	A306	✓
01/22/19	EHJ	0.5000	99.9982	A306	✓
01/23/19	PGH	0.5000	99.9976	A306	✓
01/24/19	PGH	0.5000	99.9980	A306	✓

Continued on Page

Read and Understood By

Signed _____

Date _____

Signed _____

Date _____



ENTHALPY

ANALYTICAL



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 309066

ANALYTICAL REPORT

TPH-Purgeables and/or BTXE by GC

TRC Solutions Inc.

505 Sansome St

San Francisco, CA 94111

Project : 285830.02A.01

Location : Riley Soil Investigation

Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	309066-001
BR11-1GW02	309066-002
BR11-1GW03	309066-003
DUP04182019-01	309066-004
TB04182019-01	309066-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Haley Campbell
Project Manager

haley.campbell@enthalpy.com
(510) 204-2223 Ext 13105

Date: 05/13/2019

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE
TPH-PURGEABLES AND/OR BTXE BY GC (EPA 8015B AND EPA 8021B)

Laboratory number: 309066
Client: TRC Solutions Inc.
Project: 285830.02A.01
Location: Riley Soil Investigation
Request Date: 04/18/19
Samples Received: 04/18/19

This data package contains sample and QC results for five water samples, requested for the above referenced project on 04/18/19. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):

TB04182019-01 (lab # 309066-005) was analyzed with more than 1 mL of headspace in the VOA vial.

No other analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 309006 Client: TRC
 Date Received: 4/18/19 Project: _____

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun #. A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 4/18/19 By (print) RV (sign) RV
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: Important : Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used : Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 3.8, #2: 2.1, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	/		
Were Method 5035 sampling containers present?		/	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm absent in VOA samples?			/
Was the client contacted concerning this sample delivery?			/
If YES, who was called? _____ By _____ Date: _____			/

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			/
Did you check preservatives for all bottles for each sample?			/
Did you document your preservative check? pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			/
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:
 Explanations/Comments: 1/2 VOAS arrived w/ bubbles for Sample "005"

Date Logged in 4/18/19 By (print) RV (sign) RV
 Date Labeled 4-18-19 By (print) RV (sign) RV

Results & QC Summary

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	309066	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01		
Matrix:	Water	Sampled:	04/18/19
Units:	ug/L	Received:	04/18/19
Diln Fac:	1.000		

Field ID: BR11-1GW01 Lab ID: 309066-001
Type: SAMPLE

Analyte	Result	RL	Batch#	Analyzed	Analysis
Gasoline C7-C12	69	50	269681	04/18/19	EPA 8015B
Benzene	ND	0.50	269730	04/19/19	EPA 8021B
Toluene	ND	0.50	269730	04/19/19	EPA 8021B
Ethylbenzene	ND	0.50	269730	04/19/19	EPA 8021B
m,p-Xylenes	ND	0.50	269730	04/19/19	EPA 8021B
o-Xylene	0.59 C	0.50	269730	04/19/19	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	104	80-120	269681	04/18/19	EPA 8015B
Bromofluorobenzene (PID)	73	68-126	269730	04/19/19	EPA 8021B

Field ID: BR11-1GW02 Lab ID: 309066-002
Type: SAMPLE

Analyte	Result	RL	Batch#	Analyzed	Analysis
Gasoline C7-C12	ND	50	269681	04/18/19	EPA 8015B
Benzene	ND	0.50	269730	04/19/19	EPA 8021B
Toluene	ND	0.50	269730	04/19/19	EPA 8021B
Ethylbenzene	ND	0.50	269730	04/19/19	EPA 8021B
m,p-Xylenes	ND	0.50	269730	04/19/19	EPA 8021B
o-Xylene	ND	0.50	269730	04/19/19	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	101	80-120	269681	04/18/19	EPA 8015B
Bromofluorobenzene (PID)	74	68-126	269730	04/19/19	EPA 8021B

Field ID: BR11-1GW03 Lab ID: 309066-003
Type: SAMPLE

Analyte	Result	RL	Batch#	Analyzed	Analysis
Gasoline C7-C12	59	50	269681	04/18/19	EPA 8015B
Benzene	ND	0.50	269730	04/19/19	EPA 8021B
Toluene	ND	0.50	269730	04/19/19	EPA 8021B
Ethylbenzene	ND	0.50	269730	04/19/19	EPA 8021B
m,p-Xylenes	ND	0.50	269730	04/19/19	EPA 8021B
o-Xylene	ND	0.50	269730	04/19/19	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	103	80-120	269681	04/18/19	EPA 8015B
Bromofluorobenzene (PID)	76	68-126	269730	04/19/19	EPA 8021B

C= Presence confirmed, but RPD between columns exceeds 40%
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	309066	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01		
Matrix:	Water	Sampled:	04/18/19
Units:	ug/L	Received:	04/18/19
Diln Fac:	1.000		

Field ID: DUP04182019-01
Type: SAMPLE

Lab ID: 309066-004

Analyte	Result	RL	Batch#	Analyzed	Analysis
Gasoline C7-C12	ND	50	269681	04/18/19	EPA 8015B
Benzene	ND	0.50	269730	04/19/19	EPA 8021B
Toluene	ND	0.50	269730	04/19/19	EPA 8021B
Ethylbenzene	ND	0.50	269730	04/19/19	EPA 8021B
m,p-Xylenes	ND	0.50	269730	04/19/19	EPA 8021B
o-Xylene	ND	0.50	269730	04/19/19	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	103	80-120	269681	04/18/19	EPA 8015B
Bromofluorobenzene (PID)	76	68-126	269730	04/19/19	EPA 8021B

Field ID: TB04182019-01
Type: SAMPLE

Lab ID: 309066-005

Analyte	Result	RL	Batch#	Analyzed	Analysis
Gasoline C7-C12	ND	50	269681	04/18/19	EPA 8015B
Benzene	ND	0.50	269730	04/19/19	EPA 8021B
Toluene	ND	0.50	269730	04/19/19	EPA 8021B
Ethylbenzene	ND	0.50	269730	04/19/19	EPA 8021B
m,p-Xylenes	ND	0.50	269730	04/19/19	EPA 8021B
o-Xylene	ND	0.50	269730	04/19/19	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	102	80-120	269681	04/18/19	EPA 8015B
Bromofluorobenzene (PID)	71	68-126	269730	04/19/19	EPA 8021B

Type: BLANK
Lab ID: QC972532
Batch#: 269681

Analyzed: 04/18/19
Analysis: EPA 8015B

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	Result	%REC	Limits
Bromofluorobenzene (FID)		98	80-120
Bromofluorobenzene (PID)	NA		

C= Presence confirmed, but RPD between columns exceeds 40%
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	309066	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01		
Matrix:	Water	Sampled:	04/18/19
Units:	ug/L	Received:	04/18/19
Diln Fac:	1.000		

Type:	BLANK	Analyzed:	04/19/19
Lab ID:	QC972737	Analysis:	EPA 8021B
Batch#:	269730		

Analyte	Result	RL
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	Result	%REC	Limits
Bromofluorobenzene (FID)	NA		
Bromofluorobenzene (PID)		75	68-126

C= Presence confirmed, but RPD between columns exceeds 40%
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	309066	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	269681
Units:	ug/L	Analyzed:	04/18/19
Diln Fac:	1.000		

Type: BS Lab ID: QC972533

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,103	110	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	80-120

Type: BSD Lab ID: QC972534

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	1,128	113	80-120	2	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	80-120

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	309066	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	269681
MSS Lab ID:	309045-001	Sampled:	04/12/19
Matrix:	Water	Received:	04/18/19
Units:	ug/L	Analyzed:	04/18/19
Diln Fac:	1.000		

Type: MS Lab ID: QC972537

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	20.07	2,000	2,323	115	78-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	80-120

Type: MSD Lab ID: QC972538

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,310	114	78-120	1	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	80-120

RPD= Relative Percent Difference

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	309066	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 5030B
Project#:	285830.02A.01	Analysis:	EPA 8021B
Matrix:	Water	Batch#:	269730
Units:	ug/L	Analyzed:	04/19/19
Diln Fac:	1.000		

Type: BS Lab ID: QC972738

Analyte	Spiked	Result	%REC	Limits
Benzene	10.00	9.226	92	80-120
Toluene	10.00	9.092	91	80-120
Ethylbenzene	10.00	9.109	91	80-120
m,p-Xylenes	10.00	10.08	101	80-120
o-Xylene	10.00	9.685	97	80-120

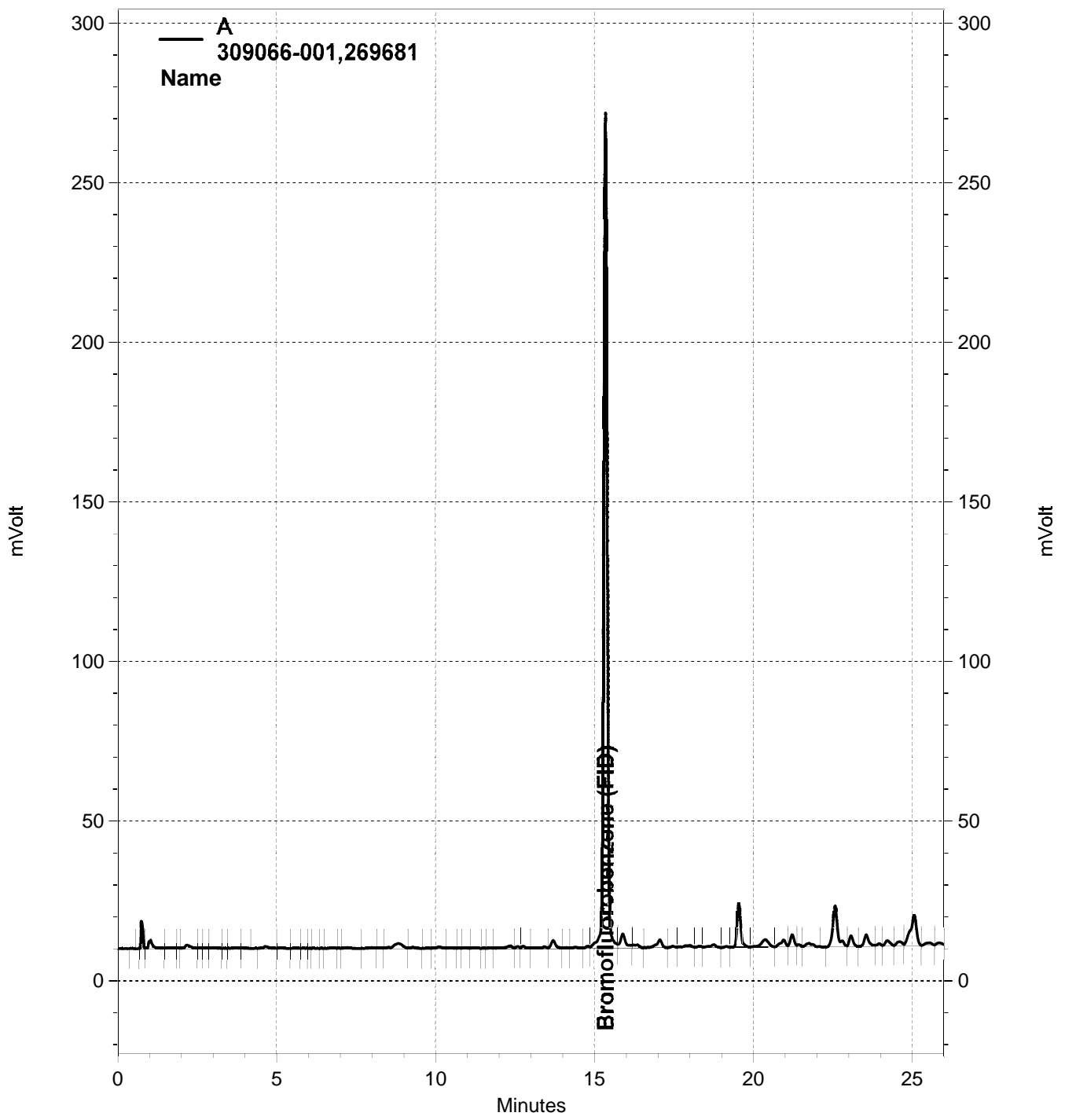
Surrogate	%REC	Limits
Bromofluorobenzene (PID)	80	68-126

Type: BSD Lab ID: QC972739

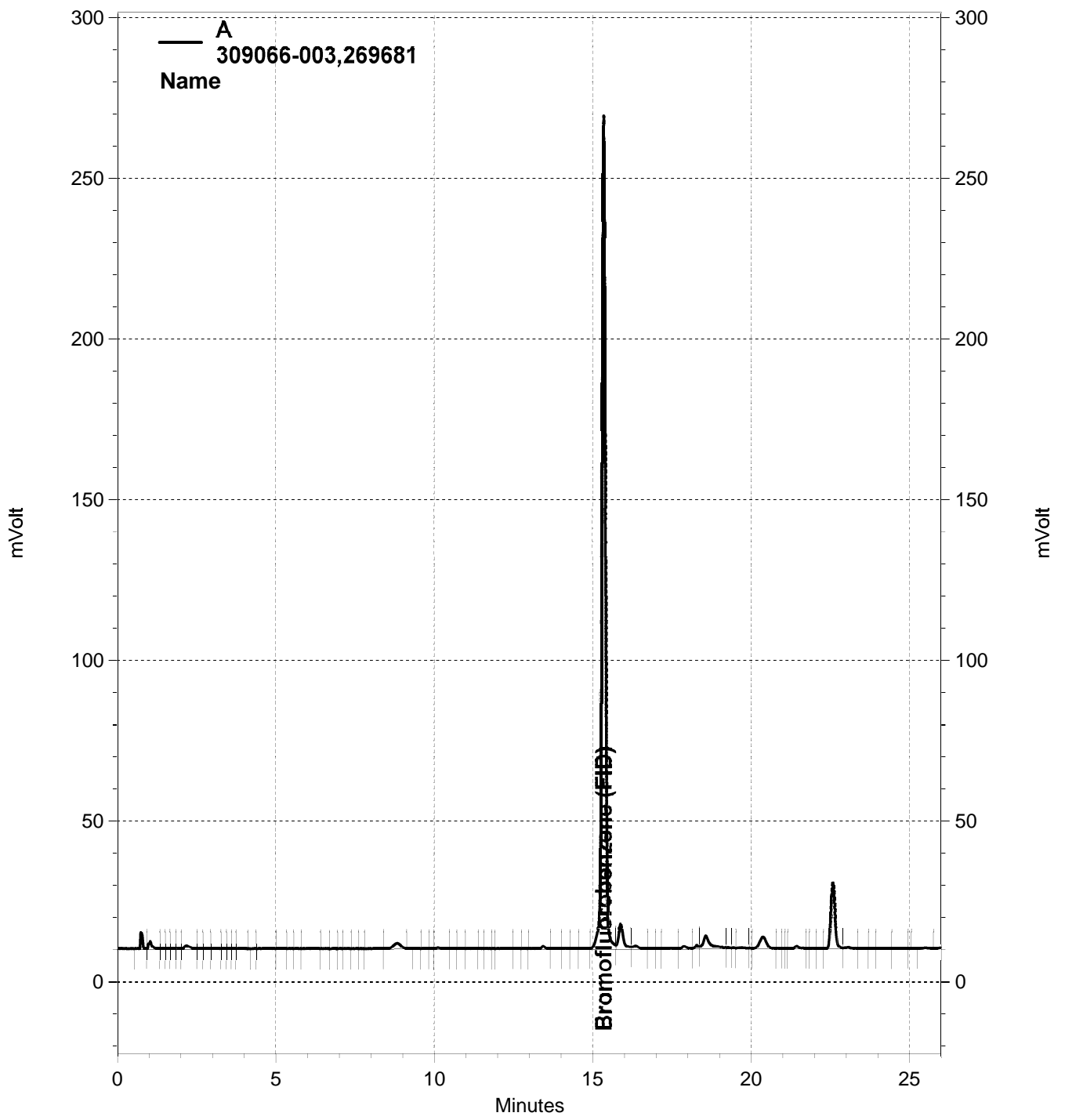
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	10.00	9.226	92	80-120	0	20
Toluene	10.00	8.868	89	80-120	2	20
Ethylbenzene	10.00	9.247	92	80-120	2	20
m,p-Xylenes	10.00	9.849	98	80-120	2	20
o-Xylene	10.00	9.550	95	80-120	1	20

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	80	68-126

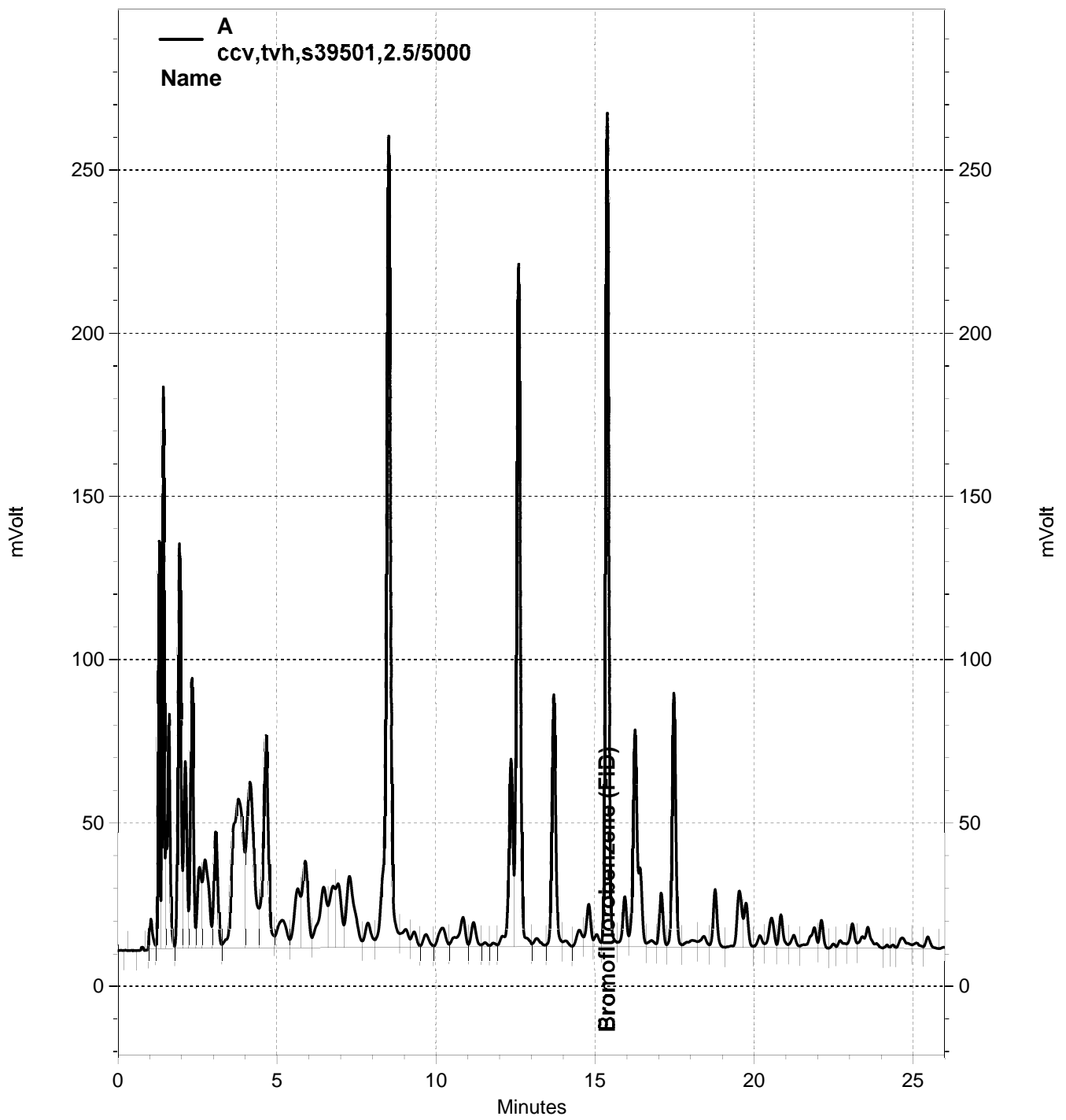
RPD= Relative Percent Difference



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-018, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-020, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002, A

ENTHALPY INITIAL CALIBRATION FOR 309066 GCVOA Water: EPA 8021B

Inst : GC05
 Calnum : 319127265001
 Units : ng

Name : MBTXE 088
 Date : 30-MAR-2019 04:43
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	088_026	319127265026	BTXE_1	30-MAR-2019 04:43	S39199 (1000X), S39864 (5000X)
L2	088_027	319127265027	MBTXE_2	30-MAR-2019 05:20	S39200 (1250X), S39864 (5000X)
L3	088_028	319127265028	MBTXE_3	30-MAR-2019 05:58	S39200 (500X), S39864 (5000X)
L4	088_029	319127265029	MBTXE_4	30-MAR-2019 06:36	S39200 (125X), S39864 (5000X)
L5	088_030	319127265030	MBTXE_5	30-MAR-2019 07:13	S39082 (1000X), S39864 (5000X)
L6	088_031	319127265031	MBTXE_6	30-MAR-2019 07:51	S39082 (500X), S39864 (5000X)
L7	088_032	319127265032	MBTXE_7	30-MAR-2019 08:28	S39082 (250X), S39864 (5000X)
L8	088_033	319127265033	MTBE_7	30-MAR-2019 09:06	S38586 (500X), S39864 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Benzene	B	27338	27613	30103	34448	34035	32935	32533		AVRG		3.20E-5		31287	9	0.995	20	
Toluene	B	26232	26006	27626	31405	30641	29466	29046		AVRG		3.49E-5		28632	7	0.995	20	
Ethylbenzene	B	22856	21961	23685	27059	26603	25514	24852		AVRG		4.06E-5		24647	8	0.995	20	
m,p-Xylenes	B	26649	27222	30206	32336	30843	29125	28672		AVRG		3.41E-5		29293	7	0.995	20	
o-Xylene	B	24241	22888	24919	27213	25995	24565	24106		AVRG		4.02E-5		24847	6	0.995	20	
Bromofluorobenzene (PID)	B	18889	18725	18701	19117	19508	18443	18212	18218	AVRG		5.34E-5		18727	2	0.995	20	
Benzene	C	2914.4	3058.8	3180.2	3528.3	3506.1	3372.3	3230.7		AVRG		3.07E-4		3255.8	7	0.995	20	
Toluene	C	2681.2	2723.5	2790.0	3154.6	3187.7	3084.7	3069.6		AVRG		3.38E-4		2955.9	7	0.995	20	
Ethylbenzene	C	2170.4	2211.1	2271.9	2612.7	2721.8	2640.6	2632.7		AVRG		4.06E-4		2465.9	10	0.995	20	
m,p-Xylenes	C	2740.4	2604.8	2671.9	3061.8	3185.1	3079.7	3094.2		AVRG		3.43E-4		2919.7	8	0.995	20	
o-Xylene	C	2652.0	2226.4	2321.6	2622.4	2660.0	2576.8	2586.7		AVRG		3.97E-4		2520.8	7	0.995	20	
Bromofluorobenzene (PID)	C	1866.5	1835.5	1821.3	1863.8	1915.5	1846.7	1906.8	1866.1	AVRG		5.36E-4		1865.3	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Benzene	B	2.5000	-13	10.000	-12	25.000	-4	100.00	10	500.00	9	1000.0	5	2000.0	4		
Toluene	B	2.5000	-8	10.000	-9	25.000	-4	100.00	10	500.00	7	1000.0	3	2000.0	1		
Ethylbenzene	B	2.5000	-7	10.000	-11	25.000	-4	100.00	10	500.00	8	1000.0	4	2000.0	1		
m,p-Xylenes	B	2.5000	-9	10.000	-7	25.000	3	100.00	10	500.00	5	1000.0	-1	2000.0	-2		
o-Xylene	B	2.5000	-2	10.000	-8	25.000	0	100.00	10	500.00	5	1000.0	-1	2000.0	-3		
Bromofluorobenzene (PID)	B	900.00	1	900.00	0	900.00	0	900.00	2	900.00	4	900.00	-2	900.00	-3	900.00	-3
Benzene	C	2.5000	-10	10.000	-6	25.000	-2	100.00	8	500.00	8	1000.0	4	2000.0	-1		
Toluene	C	2.5000	-9	10.000	-8	25.000	-6	100.00	7	500.00	8	1000.0	4	2000.0	4		
Ethylbenzene	C	2.5000	-12	10.000	-10	25.000	-8	100.00	6	500.00	10	1000.0	7	2000.0	7		
m,p-Xylenes	C	2.5000	-6	10.000	-11	25.000	-8	100.00	5	500.00	9	1000.0	5	2000.0	6		
o-Xylene	C	2.5000	5	10.000	-12	25.000	-8	100.00	4	500.00	6	1000.0	2	2000.0	3		
Bromofluorobenzene (PID)	C	900.00	0	900.00	-2	900.00	-2	900.00	0	900.00	3	900.00	-1	900.00	2	900.00	0

Analyst: ALE

Date: 04/01/19

Reviewer: EAH

Date: 04/01/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 309066 GCVOA Water
EPA 8021B

Inst : GC05
Calnum : 319127265001

Name : MBTXE 088
Cal Date : 30-MAR-2019

ICV 319127265036 (088_036 30-MAR-2019) stds: S39736 (1000X), S39864 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	100.0	96.20	ng	-4	15	
Toluene	B	100.0	98.58	ng	-1	15	
Ethylbenzene	B	100.0	92.93	ng	-7	15	
m,p-Xylenes	B	200.0	207.4	ng	4	15	
o-Xylene	B	100.0	100.8	ng	1	15	
Benzene	C	100.0	100.0	ng	0	15	
Toluene	C	100.0	100.0	ng	0	15	
Ethylbenzene	C	100.0	100.6	ng	1	15	
m,p-Xylenes	C	200.0	200.4	ng	0	15	
o-Xylene	C	100.0	95.87	ng	-4	15	

Analyst: ALE

Date: 04/01/19

Reviewer: EAH

Date: 04/01/19

ENTHALPY INITIAL CALIBRATION FOR 309066 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 329076864001
 Units : ng

Name : tvhbtxe053
 Date : 23-FEB-2019 03:16
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	053_028	329076864028	TVH_14	23-FEB-2019 03:16	S39162 (1000X), S39864 (5000X)
L2	053_029	329076864029	TVH_15	23-FEB-2019 03:55	S39161 (1000X), S39864 (5000X)
L3	053_030	329076864030	TVH_16	23-FEB-2019 04:33	S39160 (1000X), S39864 (5000X)
L4	053_031	329076864031	TVH_17	23-FEB-2019 05:12	S39159 (2000X), S39864 (5000X)
L5	053_032	329076864032	TVH_18	23-FEB-2019 05:50	S39159 (1000X), S39864 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	2764.2	1970.9	1977.2	1828.5	2059.8	AVRG		4.72E-4		2120.1	17	0.995	20	
Bromofluorobenzene (FID)	A	2006.0	2017.8	2067.8	2141.8	2218.6	AVRG		4.78E-4		2090.4	4	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	30	2500.0	-7	10000	-7	25000	-14	50000	-3
Bromofluorobenzene (FID)	A	900.00	-4	900.00	-3	900.00	-1	900.00	2	900.00	6

Analyst: JM2

Date: 02/25/19

Reviewer: EAH

Date: 02/25/19

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 309066 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 329076864001

Name : tvhbtxe053
Cal Date : 23-FEB-2019

ICV 329076864035 (053_035 23-FEB-2019) stds: S39163 (1000X), S39864 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	9833	ng	-2	15	

Analyst: JM2

Date: 02/25/19

Reviewer: EAH

Date: 02/25/19

Carbon Marker Run

Inst : GC05 IDF : 1.0
 Seqnum : 319117194040 File : 081_040 Time : 23-MAR-2019 09:49
 Standards: S39468 (1000X), S39864 (5000X)

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C6 - n-Hexane	A	1.583	+/- 6s (0.100m)	1.483 - 1.683
C7 - n-Heptane	A	3.183	+/- 6s (0.100m)	3.083 - 3.283
C8 - n-Octane	A	6.55	+/- 6s (0.100m)	6.450 - 6.650
C10 - n-Decane	A	14.317	+/- 6s (0.100m)	14.217 - 14.417
C12 - n-Dodecane	A	21.283	+/- 6s (0.100m)	21.183 - 21.383

Carbon Range	Channel	Range Start	Range Stop
Gasoline C6-C10	A	1.483	14.417
Gasoline C6-C12	A	1.483	21.383
Gasoline C7-C12	A	3.083	21.383
JP-4 C7-C12	A	3.083	21.383
Aviation Gasoline C6-C10	A	1.483	14.417
Aviation Gasoline C7-C12	A	3.083	21.383

EZChrom method retention times successfully validated.

Analyst: ALE Date: 03/25/19 Reviewer: TKM Date: 03/25/19

Carbon Marker Run

Inst : GC07

IDF : 1.0

Seqnum : 329076864036

File : 053_036

Time : 23-FEB-2019 08:24

Standards: S39468 (1000X), S39864 (5000X)

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C6 - n-Hexane	A	2.317	+/- 6s (0.100m)	2.217 - 2.417
C7 - n-Heptane	A	4.6	+/- 6s (0.100m)	4.500 - 4.700
C8 - n-Octane	A	8.3	+/- 6s (0.100m)	8.200 - 8.400
C10 - n-Decane	A	16.1	+/- 6s (0.100m)	16.000 - 16.200
C12 - n-Dodecane	A	23.033	+/- 6s (0.100m)	22.933 - 23.133

Carbon Range	Channel	Range Start	Range Stop
Gasoline C6-C10	A	2.217	16.200
Gasoline C6-C12	A	2.217	23.133
Gasoline C7-C12	A	4.500	23.133
JP-4 C7-C12	A	4.500	23.133

EZChrom method retention times successfully validated.

Analyst: JM2

Date: 02/25/19

Reviewer: EAH

Date: 02/25/19

ENTHALPY SPIKE USER REPORT FOR 309066 GCVOA Water
EPA 8021B

Inst : GC05 Run Name : QC972738 IDF : 1.0
 Seqnum : 319157509003.1 File : 109_003 Time : 19-APR-2019 10:24
 Cal : 319127265001 Caldate : 30-MAR-2019
 Standards: S39719 (2000X), S39864 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	C	3255.8	3004.0	50.00	46.13	ng	-8	15	u
Benzene	B	31287	25390	50.00	40.58	ng	-19	15	c- ***
Toluene	B	28632	26032	50.00	45.46	ng	-9	15	u
Toluene	C	2955.9	2986.4	50.00	50.52	ng	1	15	
Ethylbenzene	B	24647	22451	50.00	45.54	ng	-9	15	u
Ethylbenzene	C	2465.9	2518.0	50.00	51.06	ng	2	15	
m,p-Xylenes	B	29293	29520	50.00	50.39	ng	1	15	u
m,p-Xylenes	C	2919.7	3000.9	50.00	51.39	ng	3	15	
o-Xylene	B	24847	24063	50.00	48.42	ng	-3	15	u
o-Xylene	C	2520.8	2536.7	50.00	50.31	ng	1	15	
Bromofluorobenzene (PID)	B	18727	14961	900.0	719.0	ng	-20	15	c- u
Bromofluorobenzene (PID)	C	1865.3	1664.4	900.0	803.1	ng	-11	15	

JM2 04/19/19 : Reporting from Channel C for benzene, using Channel B as confirmation. [general version]

JM2 04/19/19 [Bromofluorobenzene (PID) B]: Passes control limits. [general version]

Analyst: JM2 Date: 04/22/19 Reviewer: EAH Date: 04/24/19

--low bias c=CCV u=use

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCVOA Water
EPA 8021B

Inst : GC05 Run Name : BTXE IDF : 1.0
 Seqnum : 319157509016 File : 109_016 Time : 19-APR-2019 19:01
 Cal : 319127265001 Caldate : 30-MAR-2019
 Standards: S39719 (1000X), S39864 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	B	31287	24107	100.0	77.05	ng	-23	15	c- ***
Toluene	B	28632	24738	100.0	86.40	ng	-14	15	
Ethylbenzene	B	24647	21920	100.0	88.93	ng	-11	15	
m,p-Xylenes	B	29293	27056	100.0	92.36	ng	-8	15	
o-Xylene	B	24847	22871	100.0	92.05	ng	-8	15	
Bromofluorobenzene (PID)	B	18727	14583	900.0	700.9	ng	-22	15	c-
Benzene	C	3255.8	2957.3	100.0	90.83	ng	-9	15	
Toluene	C	2955.9	2939.7	100.0	99.45	ng	-1	15	
Ethylbenzene	C	2465.9	2487.7	100.0	100.9	ng	1	15	
m,p-Xylenes	C	2919.7	2934.0	100.0	100.5	ng	0	15	
o-Xylene	C	2520.8	2512.1	100.0	99.66	ng	0	15	
Bromofluorobenzene (PID)	C	1865.3	1625.7	900.0	784.4	ng	-13	15	

ALE 04/22/19 [Bromofluorobenzene (PID) B]: Passes control limits.

ALE 04/22/19 : Reporting benzene from channel C with B as confirmation.

Analyst: ALE Date: 04/22/19 Reviewer: EAH Date: 04/22/19

--low bias c=CCV

ENTHALPY SPIKE USER REPORT FOR 309066 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : QC972533 IDF : 1.0
 Seqnum : 329156075002.3 File : 108_002 Time : 18-APR-2019 09:54
 Cal : 329076864001 Caldate : 23-FEB-2019
 Standards: S39501 (2000X), S39864 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2120.1	2338.3	5000	5515	ng	10	15	u
Bromofluorobenzene (FID)	A	2090.4	2041.0	900.0	878.7	ng	-2	15	u

ALE 04/18/19 : Corrected automatically drawn baseline for Ch. A. [general version]

Analyst: JM2 Date: 04/22/19 Reviewer: EAH Date: 04/24/19

u=use

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 329156075014 File : 108_014 Time : 18-APR-2019 18:02
 Cal : 329076864001 Caldate : 23-FEB-2019
 Standards: S39501 (1000X), S39864 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2120.1	2399.7	10000	11320	ng	13	15	
Bromofluorobenzene (FID)	A	2090.4	2218.3	900.0	955.1	ng	6	15	

Analyst: ALE Date: 04/19/19 Reviewer: TKM Date: 04/19/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 329156075022 File : 108_022 Time : 18-APR-2019 23:09
 Cal : 329076864001 Caldate : 23-FEB-2019
 Standards: S39501 (666.7X), S39864 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2120.1	2321.7	15000	16430	ng	10	15	
Bromofluorobenzene (FID)	A	2090.4	2057.6	900.0	885.9	ng	-2	15	

Analyst: ALE Date: 04/19/19 Reviewer: TKM Date: 04/19/19

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 319127265

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 03/29/19 09:05
 SOP Version : TVH_BTXE_rv24

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	088_001	X	CMARKER			03/29/19 09:05	1.0	1 2	
002	088_002	CCV/BS	QC970064	Soil	269067	03/29/19 09:43	1.0	3 2	
003	088_003	CCV	BTXE			03/29/19 10:21	1.0	4 2	
004	088_004	BSD	QC970065	Soil	269067	03/29/19 10:58	1.0	3 2	
005	088_005	CCV	BTXE			03/29/19 11:36	1.0	4 2	
006	088_006	BLANK	QC970063	Soil	269067	03/29/19 12:14	1.0	2	
007	088_007	MSS	308559-001	Soil	269067	03/29/19 16:48	1.0	2	
008	088_008	SAMPLE	308559-002	Soil	269067	03/29/19 17:26	1.0	2	
009	088_009	SAMPLE	308559-003	Soil	269067	03/29/19 18:03	1.0	2	
010	088_010	SAMPLE	308559-004	Soil	269067	03/29/19 18:41	1.0	2	
011	088_011	SAMPLE	308559-005	Soil	269067	03/29/19 19:19	1.0	2	
012	088_012	CCV	TVH			03/29/19 19:56	1.0	3 2	1:MTBE=7900
013	088_013	X	CMARKER			03/29/19 20:34	1.0	1 2	
014	088_014	SAMPLE	308559-006	Soil	269067	03/29/19 21:12	1.0	2	
015	088_015	SAMPLE	308559-007	Soil	269067	03/29/19 21:49	1.0	2	
016	088_016	MS	QC970137	Soil	269067	03/29/19 22:27	1.0	3 2	
017	088_017	MSD	QC970138	Soil	269067	03/29/19 23:04	1.0	3 2	
018	088_018	CCV	TVH			03/29/19 23:42	1.0	3 2	1:MTBE=11000
019	088_019	X	CMARKER			03/30/19 00:20	1.0	1 2	
020	088_020	IB				03/30/19 00:57	1.0	2	
021	088_021	IB				03/30/19 01:35	1.0	2	
022	088_022	IB				03/30/19 02:13	1.0	2	
023	088_023	IB				03/30/19 02:50	1.0	2	
024	088_024	IB				03/30/19 03:28	1.0	2	
025	088_025	IB	CALIB			03/30/19 04:05	1.0	2	
026	088_026	ICAL	BTXE_1			03/30/19 04:43	1.0	5 2	
027	088_027	ICAL	MBTXE_2			03/30/19 05:20	1.0	6 2	
028	088_028	ICAL	MBTXE_3			03/30/19 05:58	1.0	6 2	
029	088_029	ICAL	MBTXE_4			03/30/19 06:36	1.0	6 2	
030	088_030	ICAL	MBTXE_5			03/30/19 07:13	1.0	7 2	
031	088_031	ICAL	MBTXE_6			03/30/19 07:51	1.0	7 2	
032	088_032	ICAL	MBTXE_7			03/30/19 08:28	1.0	7 2	
033	088_033	ICAL	MTBE_7			03/30/19 09:06	1.0	8 2	
034	088_034	IB				03/30/19 09:43	1.0	2	
035	088_035	X	ICV			03/30/19 10:21	1.0	9 2	
036	088_036	ICV	MBTXE			03/30/19 10:59	1.0	9 2	

ALE 04/01/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 36.

Reviewed by: ALE Date: 04/01/19

Standards used: 1=S39468 2=S39864 3=S39501 4=S39719 5=S39199 6=S39200 7=S39082 8=S38586 9=S39736

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 319157509

Instrument : GC05
 Method : EPA 8015B, EPA 8021B

Begun : 04/19/19 09:09
 SOP Version : TVH_BTXE_rv24

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	109_001	X	CMARKER			04/19/19 09:09	1.0	1 2	
002	109_002	CCV/BS	QC972807	Soil	269748	04/19/19 09:46	1.0	3 2	
003	109_003	CCV/BS	QC972738	Water	269730	04/19/19 10:24	1.0	4 2	
004	109_004	BSD	QC972808	Soil	269748	04/19/19 11:02	1.0	3 2	
005	109_005	BSD	QC972739	Water	269730	04/19/19 11:39	1.0	4 2	
006	109_006	BLANK	QC972806	Soil	269748	04/19/19 12:28	1.0	2	
007	109_007	BLANK	QC972737	Water	269730	04/19/19 13:06	1.0	2	
008	109_008	SAMPLE	309066-005	Water	269730	04/19/19 14:00	1.0	2	headspace > 1 mL
009	109_009	SAMPLE	309066-001	Water	269730	04/19/19 14:37	1.0	2	
010	109_010	SAMPLE	309066-002	Water	269730	04/19/19 15:15	1.0	2	
011	109_011	SAMPLE	309066-003	Water	269730	04/19/19 15:53	1.0	2	
012	109_012	SAMPLE	309066-004	Water	269730	04/19/19 16:30	1.0	2	
013	109_013	SAMPLE	309020-004	Water	269730	04/19/19 17:08	50.0	2	headspace > 1 mL
014	109_014	CCV	TVH			04/19/19 17:45	1.0	3 2	
015	109_015	X	CMARKER			04/19/19 18:23	1.0	1 2	
016	109_016	CCV	BTXE			04/19/19 19:01	1.0	4 2	
017	109_017	MSS	309095-001	Soil	269748	04/19/19 19:38	1.0	2	
018	109_018	MS	QC972809	Soil	269748	04/19/19 20:16	1.0	3 2	
019	109_019	MSD	QC972810	Soil	269748	04/19/19 20:54	1.0	3 2	
020	109_020	CCV	TVH			04/19/19 21:31	1.0	3 2	
021	109_021	X	CMARKER			04/19/19 22:09	1.0	1 2	

ALE 04/22/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 21.

Reviewed by: ALE Date: 04/22/19

Standards used: 1=S39468 2=S39864 3=S39501 4=S39719

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 329076864

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 02/22/19 09:04
 SOP Version : TVH_BTXE_rv24

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	053_001	X	CMARKER			02/22/19 09:04	1.0	1 2	
002	053_002	CCV/BS	QC965876	Soil	268030	02/22/19 09:43	1.0	3 2	
003	053_003	X	TVH			02/22/19 10:21	1.0	4 2	
004	053_004	BSD	QC965877	Soil	268030	02/22/19 11:12	1.0	3 2	
005	053_005	CCV/BS	QC965889	Water	268034	02/22/19 11:50	1.0	4 2	
006	053_006	BSD	QC965890	Water	268034	02/22/19 12:44	1.0	4 2	
007	053_007	BLANK	QC965888	Water	268034	02/22/19 13:30	1.0	2	
008	053_008	BLANK	QC965875	Soil	268030	02/22/19 14:09	1.0	2	
009	053_009	SAMPLE	307458-001	Soil	268030	02/22/19 15:06	1.0	2	sh
010	053_010	MSS	307448-002	Water	268034	02/22/19 15:44	1.0	2	
011	053_011	SAMPLE	307448-003	Water	268034	02/22/19 16:23	1.0	2	
012	053_012	SAMPLE	307456-008	Water	268034	02/22/19 17:01	1.0	2	
013	053_013	SAMPLE	307456-009	Water	268034	02/22/19 17:40	1.0	2	
014	053_014	SAMPLE	307456-010	Water	268034	02/22/19 18:19	1.0	2	
015	053_015	CCV	TVH			02/22/19 18:57	1.0	4 2	
016	053_016	X	CMARKER			02/22/19 19:36	1.0	1 2	
017	053_017	CCV	BTXE			02/22/19 20:14	1.0	3 2	
018	053_018	MS	QC965891	Water	268034	02/22/19 20:52	1.0	4 2	
019	053_019	MSD	QC965892	Water	268034	02/22/19 21:31	1.0	4 2	
020	053_020	CCV	TVH			02/22/19 22:09	1.0	4 2	
021	053_021	X	CMARKER			02/22/19 22:48	1.0	1 2	
022	053_022	IB				02/22/19 23:26	1.0	2	
023	053_023	IB				02/23/19 00:04	1.0	2	
024	053_024	IB				02/23/19 00:43	1.0	2	
025	053_025	IB				02/23/19 01:21	1.0	2	
026	053_026	IB				02/23/19 01:59	1.0	2	
027	053_027	IB	CALIB			02/23/19 02:38	1.0	2	
028	053_028	ICAL	TVH_14			02/23/19 03:16	1.0	5 2	
029	053_029	ICAL	TVH_15			02/23/19 03:55	1.0	6 2	
030	053_030	ICAL	TVH_16			02/23/19 04:33	1.0	7 2	
031	053_031	ICAL	TVH_17			02/23/19 05:12	1.0	8 2	
032	053_032	ICAL	TVH_18			02/23/19 05:50	1.0	8 2	
033	053_033	IB				02/23/19 06:28	1.0	2	
034	053_034	X	ICV			02/23/19 07:07	1.0	9 2	
035	053_035	ICV	TVH			02/23/19 07:45	1.0	9 2	
036	053_036	CMARKER				02/23/19 08:24	1.0	1 2	

JM2 02/22/19 : Voided run 3, BFB out low.

JM2 02/25/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 36.

JM2 02/25/19 : Reporting sequence first before ICAL.

EAH 02/25/19 : Reviewed sequence without the ICAL.

Reviewed by: JM2 Date: 02/25/19

Standards used: 1=S39468 2=S39864 3=S39719 4=S39501 5=S39162 6=S39161 7=S39160 8=S39159 9=S39163

Flags used: sh=out of sample hold

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 329156075

Instrument : GC07
 Method : EPA 8015B, EPA 8021B

Begun : 04/18/19 09:15
 SOP Version : TVH_BTXE_rv24

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	108_001	X	CMARKER			04/18/19 09:15	1.0	1 2	
002	108_002	CCV/BS	QC972533	Water	269681	04/18/19 09:54	1.0	3 2	
003	108_003	CCV/BS	QC972535	Water	269681	04/18/19 10:32	1.0	4 2	
004	108_004	BSD	QC972534	Water	269681	04/18/19 11:11	1.0	3 2	
005	108_005	BSD	QC972536	Water	269681	04/18/19 11:50	1.0	4 2	
006	108_006	IB				04/18/19 12:28	1.0	2	
007	108_007	BLANK	QC972532	Water	269681	04/18/19 13:06	1.0	2	
008	108_008	MSS	309045-001	Water	269681	04/18/19 13:52	1.0	2	
009	108_009	SAMPLE	309020-004	Water	269681	04/18/19 14:31	20.0	2	1:BZ=2500
010	108_010	IB				04/18/19 15:21	1.0	2	
011	108_011	SAMPLE	309020-004	Water	269681	04/18/19 16:00	50.0	2	
012	108_012	MS	QC972537	Water	269681	04/18/19 16:45	1.0	3 2	
013	108_013	MSD	QC972538	Water	269681	04/18/19 17:24	1.0	3 2	
014	108_014	CCV	TVH			04/18/19 18:02	1.0	3 2	
015	108_015	X	CMARKER			04/18/19 18:40	1.0	1 2	
016	108_016	CCV	BTXE			04/18/19 19:19	1.0	4 2	
017	108_017	SAMPLE	309066-005	Water	269681	04/18/19 19:57	1.0	2	headspace <= 1 mL
018	108_018	SAMPLE	309066-001	Water	269681	04/18/19 20:35	1.0	2	
019	108_019	SAMPLE	309066-002	Water	269681	04/18/19 21:14	1.0	2	
020	108_020	SAMPLE	309066-003	Water	269681	04/18/19 21:52	1.0	2	
021	108_021	SAMPLE	309066-004	Water	269681	04/18/19 22:31	1.0	2	
022	108_022	CCV	TVH			04/18/19 23:09	1.0	3 2	
023	108_023	X	CMARKER			04/18/19 23:47	1.0	1 2	
024	108_024	CCV	BTXE			04/19/19 00:26	1.0	4 2	

ALE 04/19/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Reviewed by: ALE Date: 04/19/19

Standards used: 1=S39468 2=S39864 3=S39501 4=S39719

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_v3.xls

5mL disposable pipettes, lot #: 09-18-2018

pH paper (<2.5SU), lot: 220916

pH paper (0-14SU), lot: [06]P4081

Sample ID	Vial	pH <2	pH >2	HS >6mm?	Shared w/MSV/OA?	# unused vials remaining	RR #	DF	Comments	hold	due	Lot #	Initial/Date
308992-1	B	Y											JM 9/16/19
308992-19	A	Y											JM 9/16/19
↓ -20	B	↓						1000/5000	feamer				↓
308941-3	A	Y											
↓ -3	↓	↓											
↓ -3	↓	↓											
308988-1	B	Y											JM 9/16/19
↓ -1 MS	↓	↓											↓
↓ -1 MS	↓	↓											↓
309006-1	B	Y											AL 4/17/19
↓ MS	↓	↓											↓
↓ MSD	↓	↓											↓
308996-1	B	Y						1000/5000	odor				JM 9/16/19
↓ -2	↓	↓						↓					↓
309020-1	A	Y											
↓ -2	↓	↓											
↓ -3	↓	↓											
↓ -4	↓	↓						1000/5000	odor				
↓ -5	↓	↓						↓					
↓ -6	↓	↓											
↓ -7	↓	↓		Y									
↓ -8	B	↓							HL				
↓ -1	B	↓											
309020-4	B	Y											
309045-1	A	Y						250/5000					JM 9/16/19
↓ -1 MS	↓	↓											↓
↓ -1 MS	↓	↓											↓

TVH WATER Prepsheet

rev.3, effective 1/12/17, F:\home\TVH\TVH water prep sheet_rv3.xls

5mL disposable pipettes, lot #: 07-18-2018

pH paper (<2.5SU), lot: 220416

pH paper (0-14SU), lot: 108DH0681

Sample ID	Vial	pH <2	pH if >2	HS >6mm?	Shared w/MSVQA?	# unused vials remaining	RR #	DF	Comments	hold	due	Initial/Date
309020-4	C	Y						100/5000				JM2 9/18/19
309058-1												
-2												
3												
309066-1	A	Y										JM2 9/18/19
-2	I	I										I
-3	I	I										I
-4	I	I										I
-5	I	I		Y					HL			I
309020-4	B	Y		Y				100/5000	HM			JM2 AS2 9/19/19
309066-1	I	I										I
2	B	I										I
3	B	I										I
4	B	I										I
5	A	I		Y					HM			I
309020-4	B	Y										JM2 9/19/19
309078-1	A	Y										JM2 9/19/19
-1 MS	I	I										I
-1 MSD	I	I										I
309086-1	I	N	7	Y				100/5000	HM, odor, not preserved			I
309083-1	A	Y										I
-2	I	I		Y					HL			I
-3	B	I										I
309088-1	A	I										I

JM2 9/18/19

JM2 9/19/19

REPORTING SUMMARY FOR 309066 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
309066-001	Gasoline C7-C12	GC07	A	04/18/19 20:35
309066-001	Benzene	GC05	C	04/19/19 14:37
309066-001	Toluene	GC05	B	04/19/19 14:37
309066-001	Ethylbenzene	GC05	C	04/19/19 14:37
309066-001	m,p-Xylenes	GC05	B	04/19/19 14:37
309066-001	o-Xylene	GC05	B	04/19/19 14:37
309066-001	Bromofluorobenzene (FID)	GC07	A	04/18/19 20:35
309066-001	Bromofluorobenzene (PID)	GC05	B	04/19/19 14:37
309066-002	Gasoline C7-C12	GC07	A	04/18/19 21:14
309066-002	Benzene	GC05	C	04/19/19 15:15
309066-002	Toluene	GC05	B	04/19/19 15:15
309066-002	Ethylbenzene	GC05	B	04/19/19 15:15
309066-002	m,p-Xylenes	GC05	B	04/19/19 15:15
309066-002	o-Xylene	GC05	B	04/19/19 15:15
309066-002	Bromofluorobenzene (FID)	GC07	A	04/18/19 21:14
309066-002	Bromofluorobenzene (PID)	GC05	B	04/19/19 15:15
309066-003	Gasoline C7-C12	GC07	A	04/18/19 21:52
309066-003	Benzene	GC05	C	04/19/19 15:53
309066-003	Toluene	GC05	B	04/19/19 15:53
309066-003	Ethylbenzene	GC05	B	04/19/19 15:53
309066-003	m,p-Xylenes	GC05	B	04/19/19 15:53
309066-003	o-Xylene	GC05	B	04/19/19 15:53
309066-003	Bromofluorobenzene (FID)	GC07	A	04/18/19 21:52
309066-003	Bromofluorobenzene (PID)	GC05	B	04/19/19 15:53
309066-004	Gasoline C7-C12	GC07	A	04/18/19 22:31
309066-004	Benzene	GC05	C	04/19/19 16:30
309066-004	Toluene	GC05	B	04/19/19 16:30
309066-004	Ethylbenzene	GC05	B	04/19/19 16:30
309066-004	m,p-Xylenes	GC05	B	04/19/19 16:30
309066-004	o-Xylene	GC05	B	04/19/19 16:30
309066-004	Bromofluorobenzene (FID)	GC07	A	04/18/19 22:31
309066-004	Bromofluorobenzene (PID)	GC05	B	04/19/19 16:30
309066-005	Gasoline C7-C12	GC07	A	04/18/19 19:57
309066-005	Benzene	GC05	C	04/19/19 14:00
309066-005	Toluene	GC05	C	04/19/19 14:00
309066-005	Ethylbenzene	GC05	B	04/19/19 14:00
309066-005	m,p-Xylenes	GC05	B	04/19/19 14:00
309066-005	o-Xylene	GC05	B	04/19/19 14:00
309066-005	Bromofluorobenzene (FID)	GC07	A	04/18/19 19:57
309066-005	Bromofluorobenzene (PID)	GC05	B	04/19/19 14:00
QC972532	Gasoline C7-C12	GC07	A	04/18/19 13:06
QC972532	Bromofluorobenzene (FID)	GC07	A	04/18/19 13:06
QC972737	Benzene	GC05	C	04/19/19 13:06
QC972737	Toluene	GC05	B	04/19/19 13:06
QC972737	Ethylbenzene	GC05	B	04/19/19 13:06
QC972737	m,p-Xylenes	GC05	B	04/19/19 13:06
QC972737	o-Xylene	GC05	B	04/19/19 13:06
QC972737	Bromofluorobenzene (PID)	GC05	B	04/19/19 13:06

REPORTING SUMMARY FOR 309066 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC972533	Gasoline C7-C12	GC07	A	04/18/19 09:54
QC972533	Bromofluorobenzene (FID)	GC07	A	04/18/19 09:54
QC972534	Gasoline C7-C12	GC07	A	04/18/19 11:11
QC972534	Bromofluorobenzene (FID)	GC07	A	04/18/19 11:11
QC972537	Gasoline C7-C12	GC07	A	04/18/19 16:45
QC972537	Bromofluorobenzene (FID)	GC07	A	04/18/19 16:45
QC972538	Gasoline C7-C12	GC07	A	04/18/19 17:24
QC972538	Bromofluorobenzene (FID)	GC07	A	04/18/19 17:24
QC972738	Benzene	GC05	C	04/19/19 10:24
QC972738	Toluene	GC05	B	04/19/19 10:24
QC972738	Ethylbenzene	GC05	B	04/19/19 10:24
QC972738	m,p-Xylenes	GC05	B	04/19/19 10:24
QC972738	o-Xylene	GC05	B	04/19/19 10:24
QC972738	Bromofluorobenzene (PID)	GC05	B	04/19/19 10:24
QC972739	Benzene	GC05	C	04/19/19 11:39
QC972739	Toluene	GC05	B	04/19/19 11:39
QC972739	Ethylbenzene	GC05	B	04/19/19 11:39
QC972739	m,p-Xylenes	GC05	B	04/19/19 11:39
QC972739	o-Xylene	GC05	B	04/19/19 11:39
QC972739	Bromofluorobenzene (PID)	GC05	B	04/19/19 11:39

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 309066-001 Client ID : BR11-1GW01
 Seqnum : 329156075018 Matrix : Water Acct : TRC-SF (HEC)
 File : 108_018 Batch : 269681 Time : 18-APR-2019 20:35
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

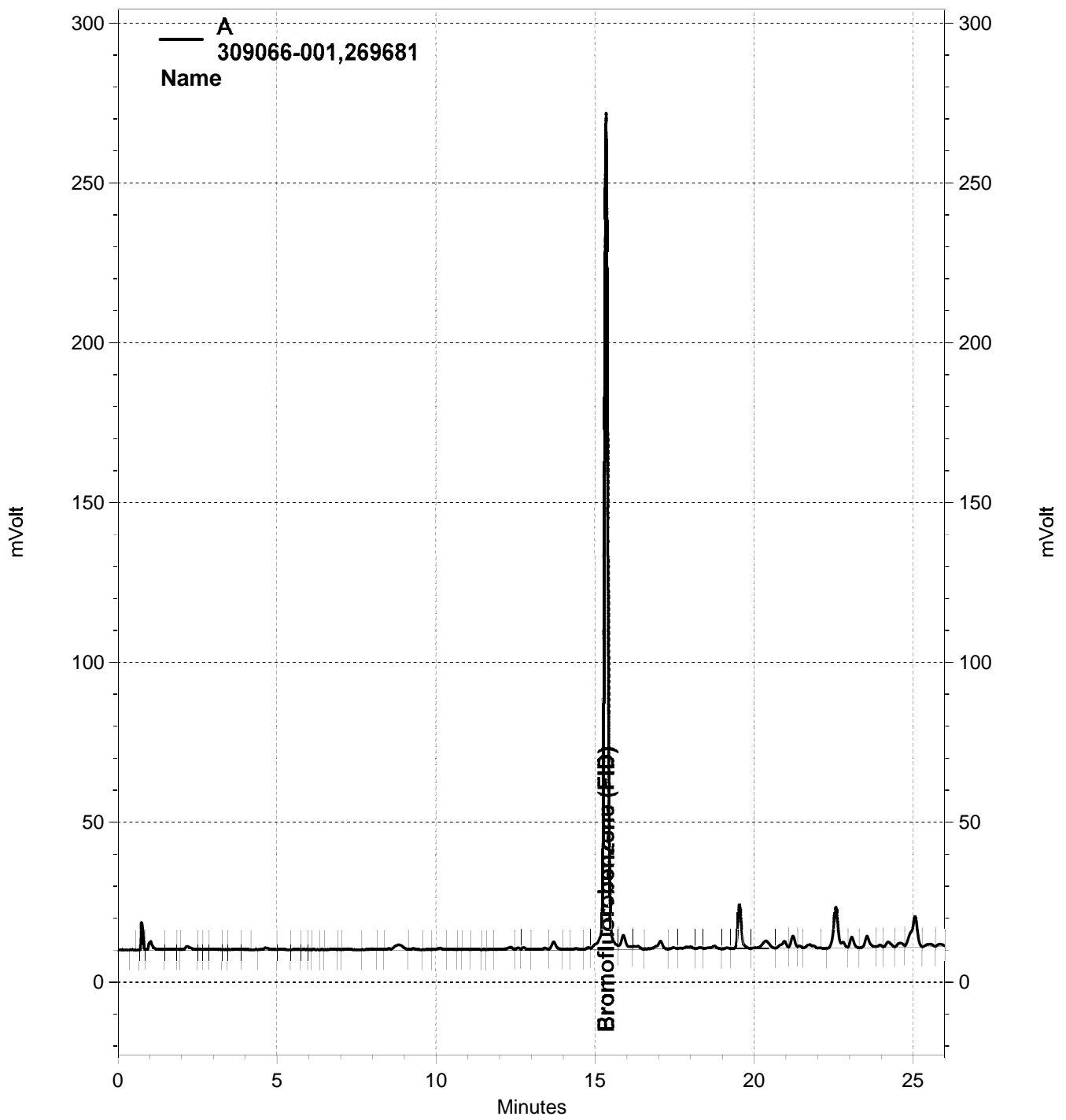
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	329076864001	342.7	69			50	12	u
Benzene	C	329033758001	1.439	ND	0.27	8%	0.50		
Toluene	B	329033758001	0.5889	ND	0.12	0%	0.50		<c+ >c- b*
Ethylbenzene	B	329033758001	2.287	ND	0.43	5%	0.50		<c+
m,p-Xylenes	C	329033758001	1.114	ND	0.18	21%	0.50		<c+
o-Xylene	B	329033758001	5.268	1.1	0.41	88%	0.50		<c+ C x

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	329076864001	932.4	180.0	186.5	104	80-120	u
Bromofluorobenzene (PID)	C	329033758001	700.4	180.0	140.1	78	68-126	<c- >c-

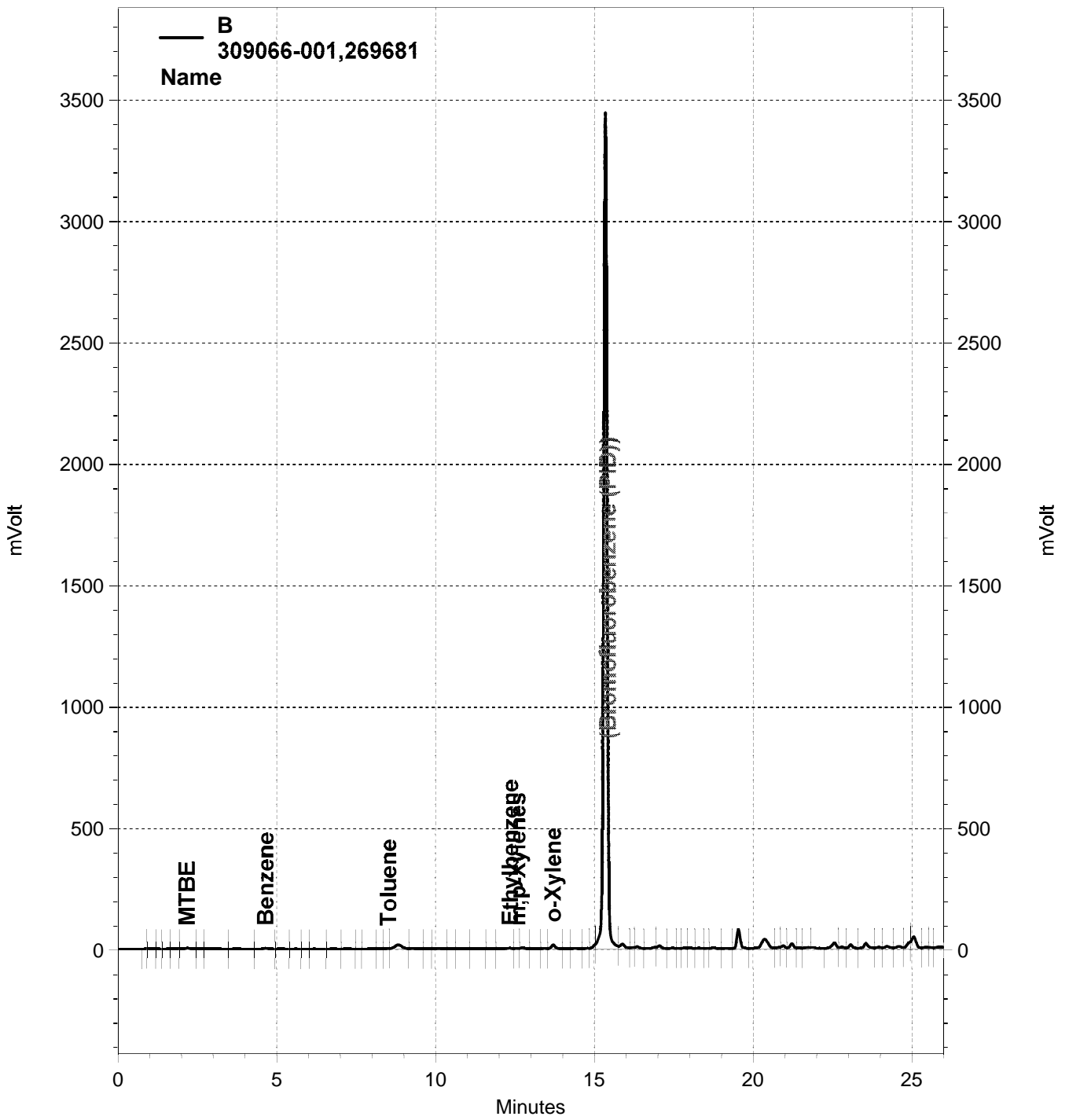
ALE 04/19/19 : RR @ 1x for BTXE

Analyst: ALE Date: 04/19/19 Reviewer: EAH Date: 04/24/19

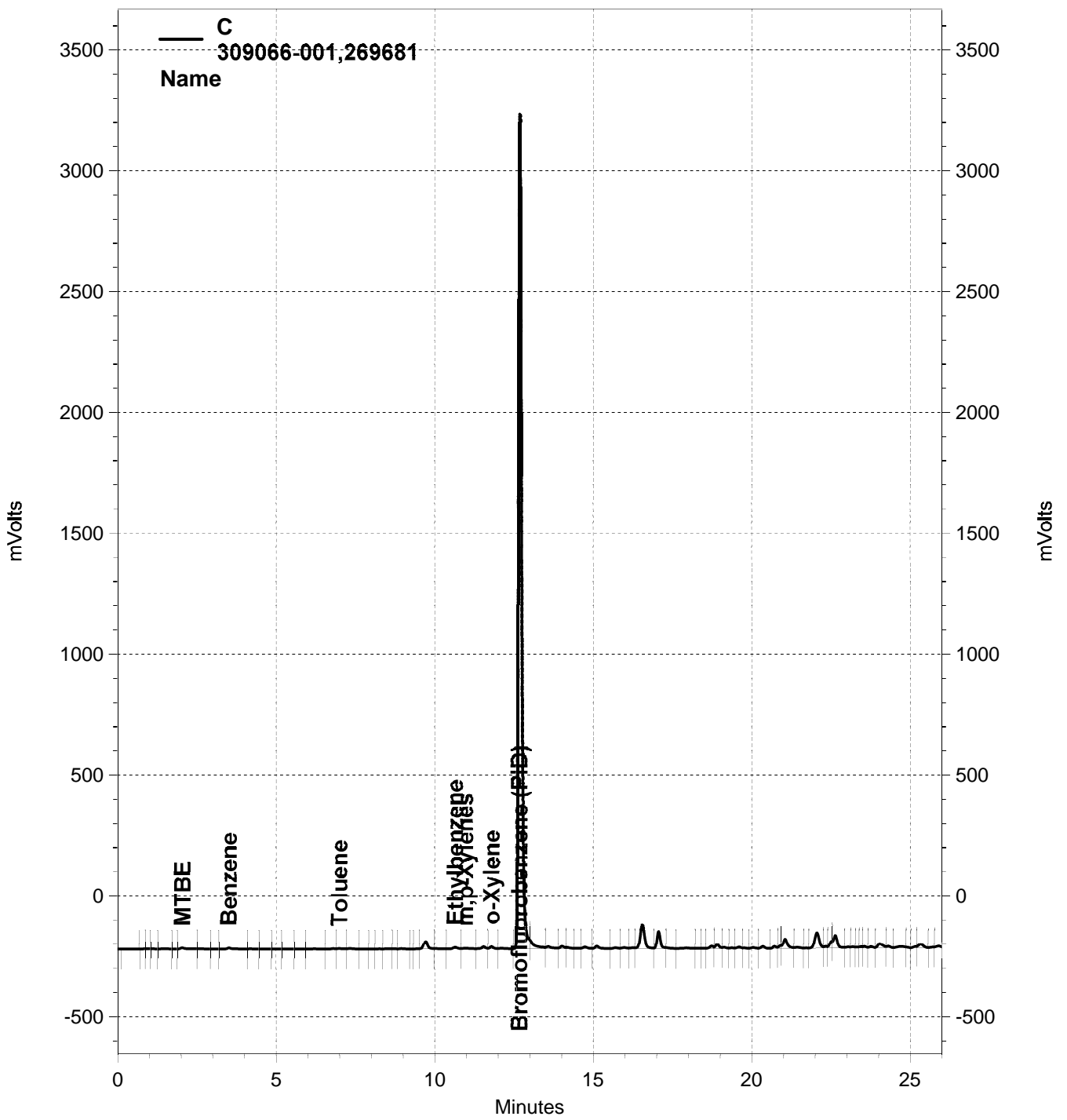
+ = high bias - = low bias < = opening > = closing C = RPD between columns exceeds 40% b = noncompliant c = CCV u = use x = false positive



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-018, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-018, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-018, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: 309066-001,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 8:35:39 PM
 Analysis Date: 4/18/2019 9:04:22 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.433	1949057	932.380
GAS:6-10			257064	119.035
GAS:6-12			741359	277.019
GAS:7-12			726619	342.727
JP4:7-12			726619	193.806
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.183	2.200	71468	4.211
Benzene	4.650	4.717	62777	1.328
Toluene	8.517	8.567	25625	0.589
Ethylbenzene	12.350	12.417	88469	2.287
m,p-Xylenes	12.583	12.650	39672	0.906
o-Xylene	13.700	13.750	207806	5.268
Bromofluorobenzene (PID)		15.433		0.000 BDL

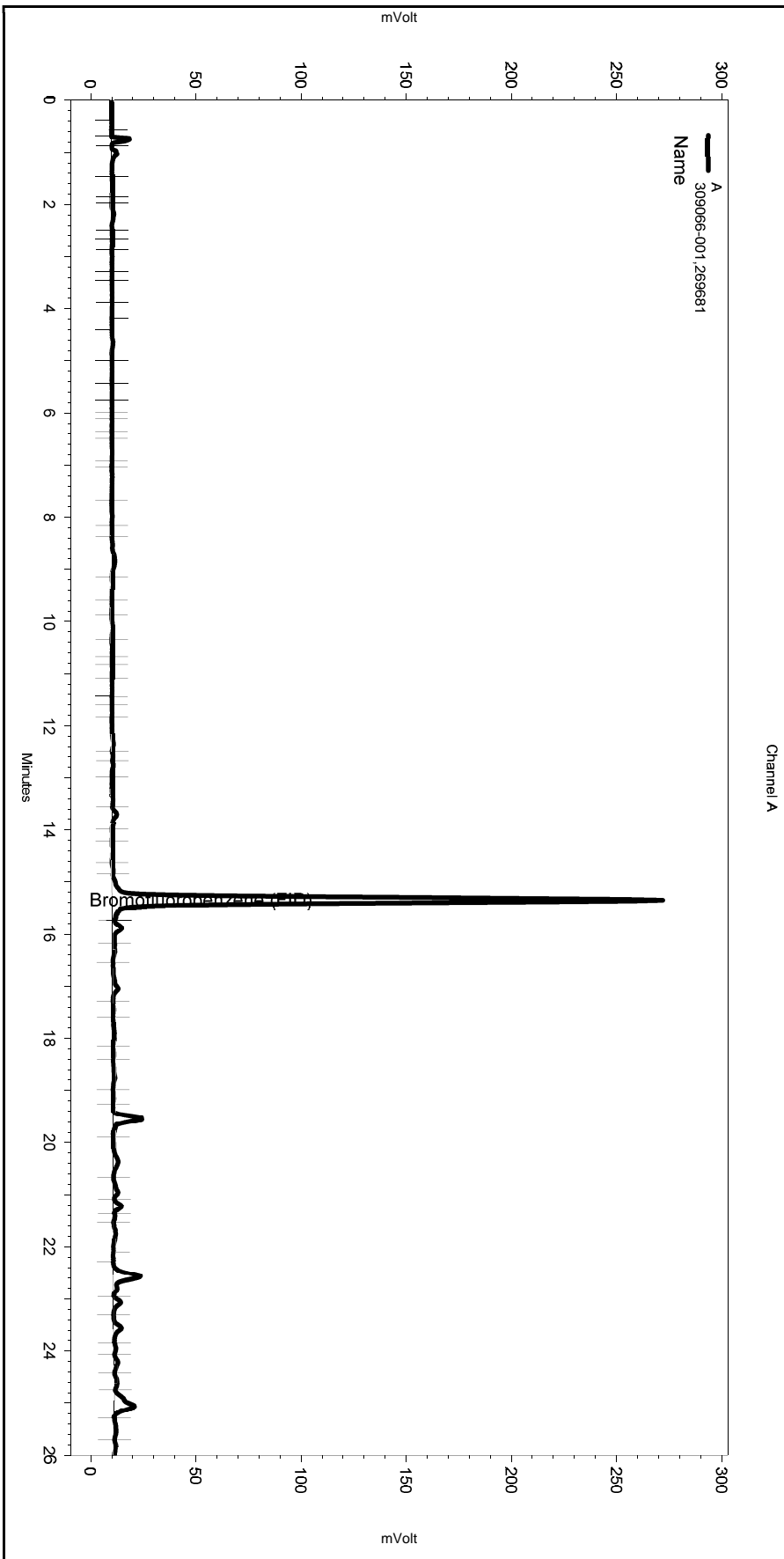
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	2.033	63679	4.435
Benzene	3.516	3.550	57566	1.439
Toluene	7.000	6.983	21945	0.587
Ethylbenzene	10.649	10.633	66553	2.171
m,p-Xylenes	10.966	10.999	43256	1.114
o-Xylene	11.799	11.849	78214	2.044
Bromofluorobenzene (PID)	12.683	12.749	23906629	700.407

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-001,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 8:35:39 PM
 Analysis Date: 4/18/2019 9:04:22 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

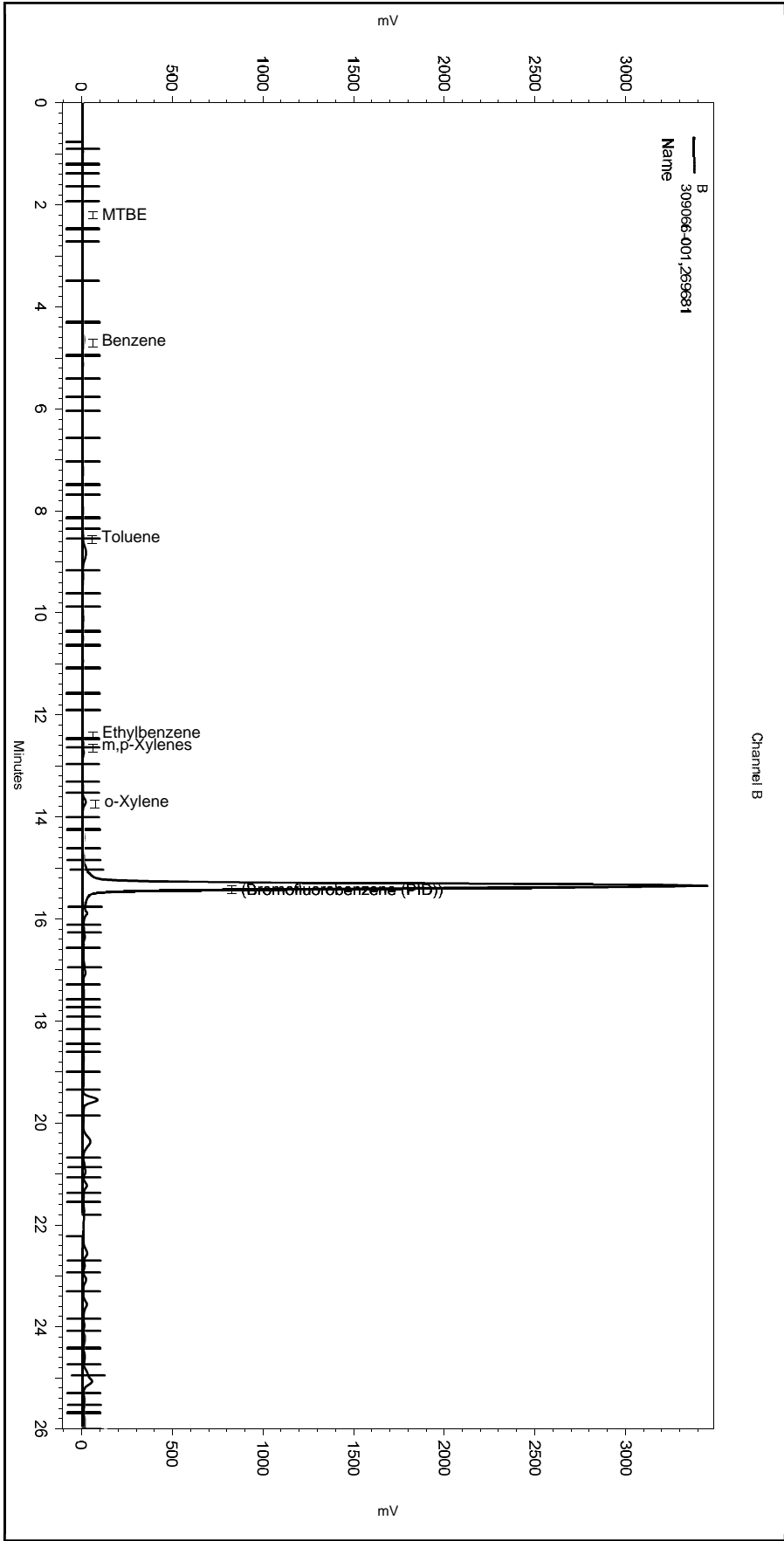
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-018_2D53.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-001,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 8:35:39 PM
 Analysis Date: 4/18/2019 9:04:22 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

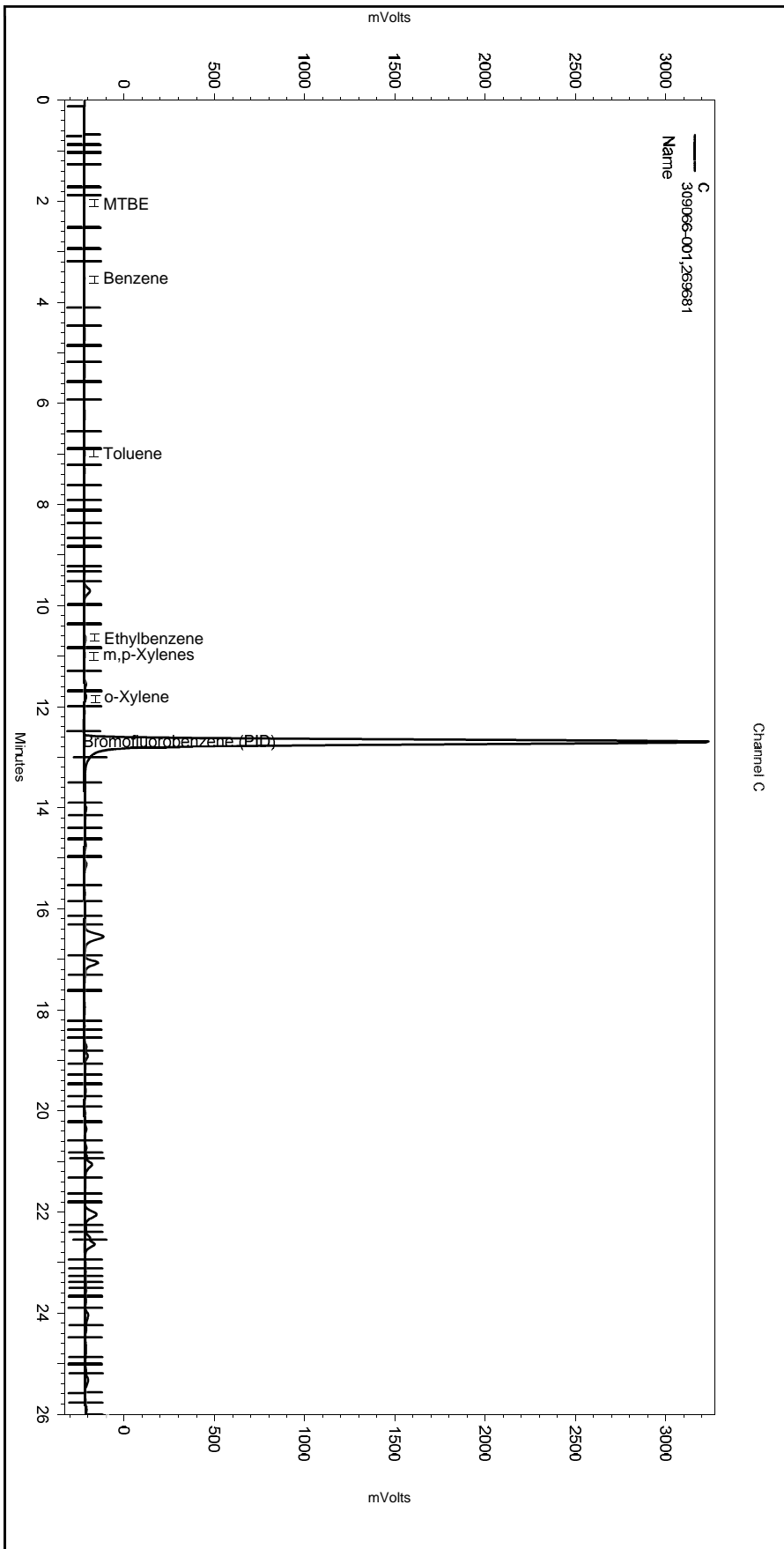
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-018_2D53.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-001,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-018
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 8:35:39 PM
 Analysis Date: 4/18/2019 9:04:22 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-018_2D53.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC05 Lab ID : 309066-001 Client ID : BR11-1GW01
 Seqnum : 319157509009 Matrix : Water Acct : TRC-SF (HEC)
 File : 109_009 Batch : 269730 Time : 19-APR-2019 14:37
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

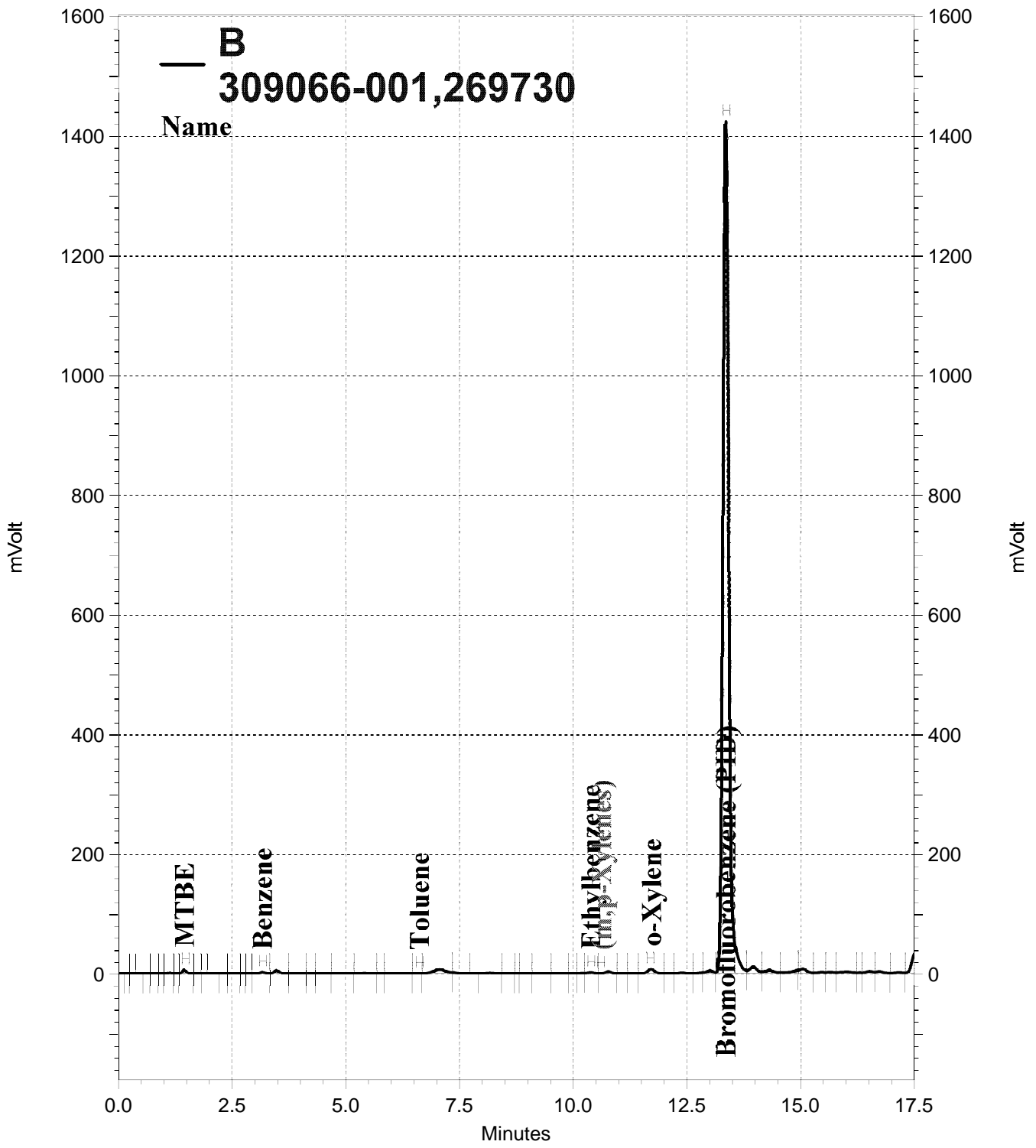
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	319117194001	353.6	71			50	70	B b*
Benzene	C	319127265001	0.7113	ND	0.13	11%	0.50		u
Toluene	B	319127265001	0.1213	ND	ND	89%	0.50		u
Ethylbenzene	C	319127265001	2.002	ND	0.16	88%	0.50		u
m,p-Xylenes	B	319127265001	0	ND	ND		0.50		u
o-Xylene	B	319127265001	2.970	0.59	0.37	47%	0.50		C u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	319117194001	631.3	180.0	126.3	70*	80-120	<c- >c-
Bromofluorobenzene (PID)	B	319127265001	658.5	180.0	131.7	73	68-126	<c- >c- u

JM2 04/19/19 : Reporting for BTXE only.

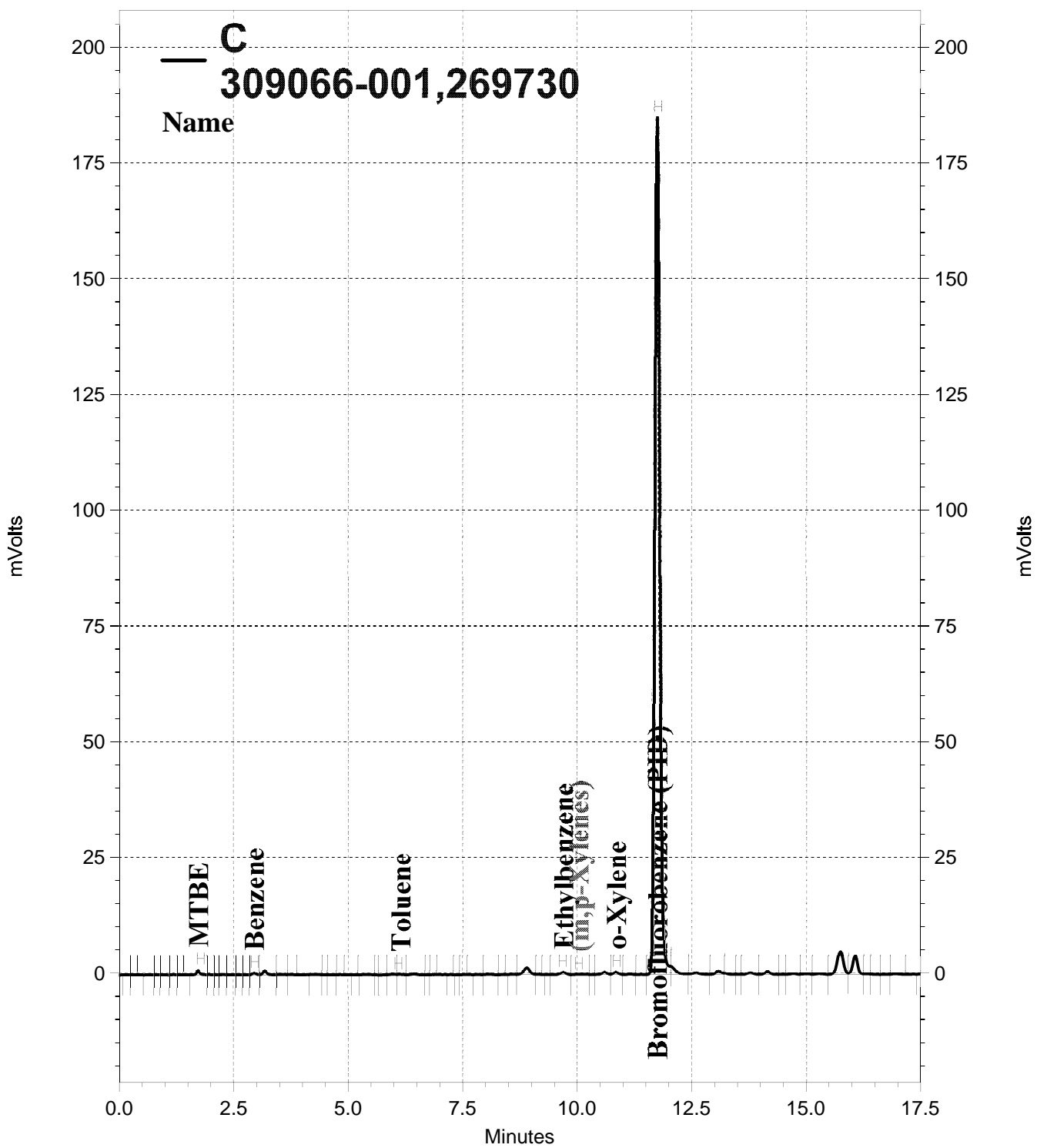
Analyst: ALE Date: 04/22/19 Reviewer: EAH Date: 04/22/19

--low bias <=opening >=closing B=method blank contamination C=RPD between columns exceeds 40% b=noncompliant c=CCV u=use



B
309066-001,269730
 Name

\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-009, B



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-009, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: 309066-001,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-009
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 2:37:41 PM
 Analysis Date: 4/19/2019 3:06:23 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0

GC05
TVH Instrument Results
 Channel A: RTX-502.2 FID

A Results				
Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.350	13.367	1131848	631.320
GAS:6-10			410755	181.486
GAS:6-12			742056	284.062
GAS:7-12			713878	353.628
JP4:7-12			713878	160.498
AVGAS:6-10			410755	102.776
AVGAS:7-12			713878	291.160

BTXE Instrument Results
 Channel B: RTX-502.2 PID

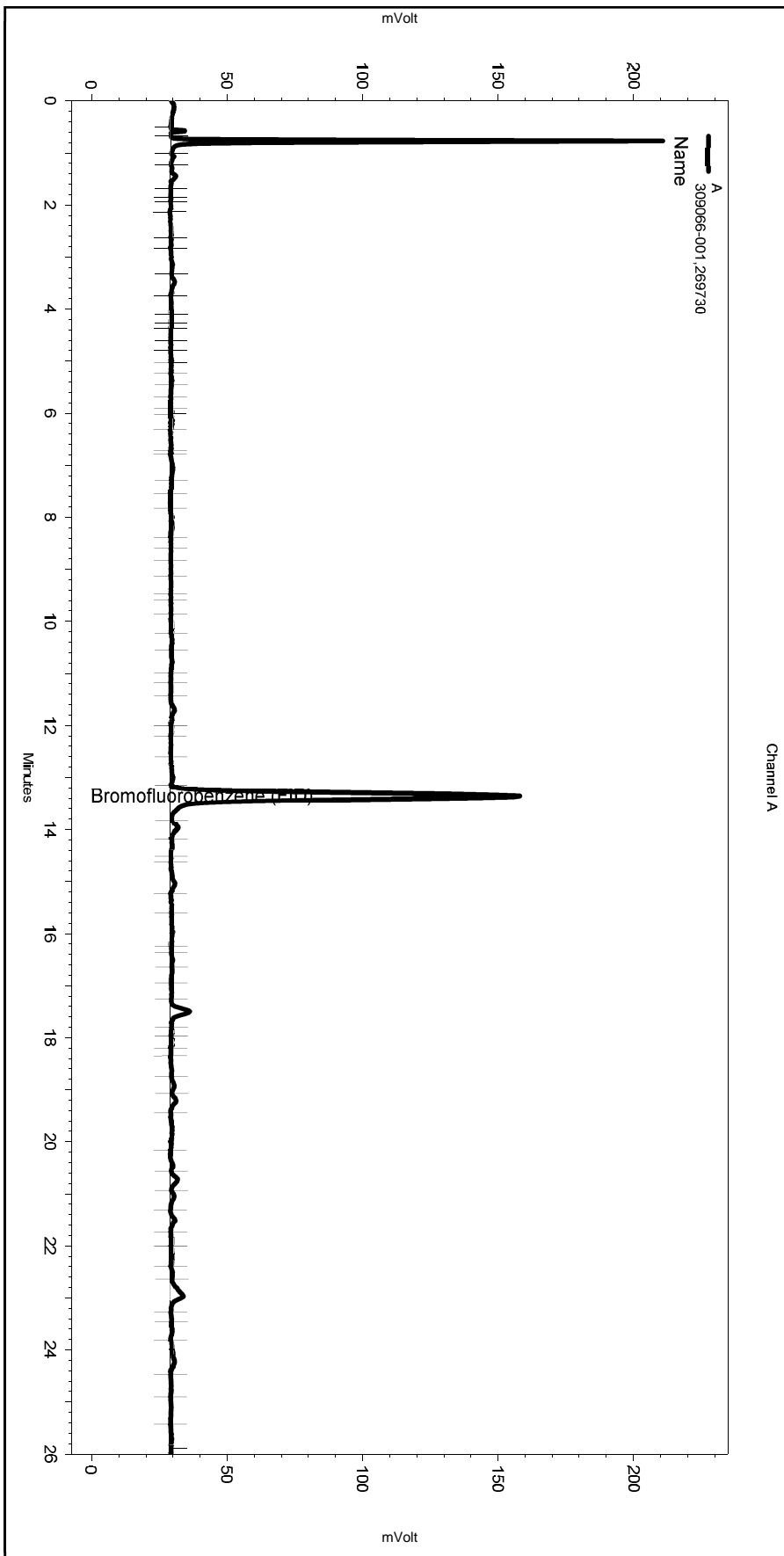
B Results				
Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.450	1.483	37388	4.025
Benzene	3.167	3.183	19973	0.638
Toluene	6.617	6.633	3472	0.121
Ethylbenzene	10.383	10.400	19215	0.780
m,p-Xylenes		10.617		0.000 BDL
o-Xylene	11.717	11.700	73790	2.970
Bromofluorobenzene (PID)	13.350	13.367	12331294	658.486

Channel C: RTX-1 PID

C Results				
Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.733	1.783	5122	5.210
Benzene	2.950	2.966	2316	0.711
Toluene	6.150	6.100	934	0.316
Ethylbenzene	9.699	9.683	4937	2.002
m,p-Xylenes		10.033		0.000 BDL
o-Xylene	10.849	10.866	4629	1.836
Bromofluorobenzene (PID)	11.749	11.766	1363248	730.860

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: 309066-001,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-009
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 2:37:41 PM
 Analysis Date: 4/19/2019 3:06:23 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

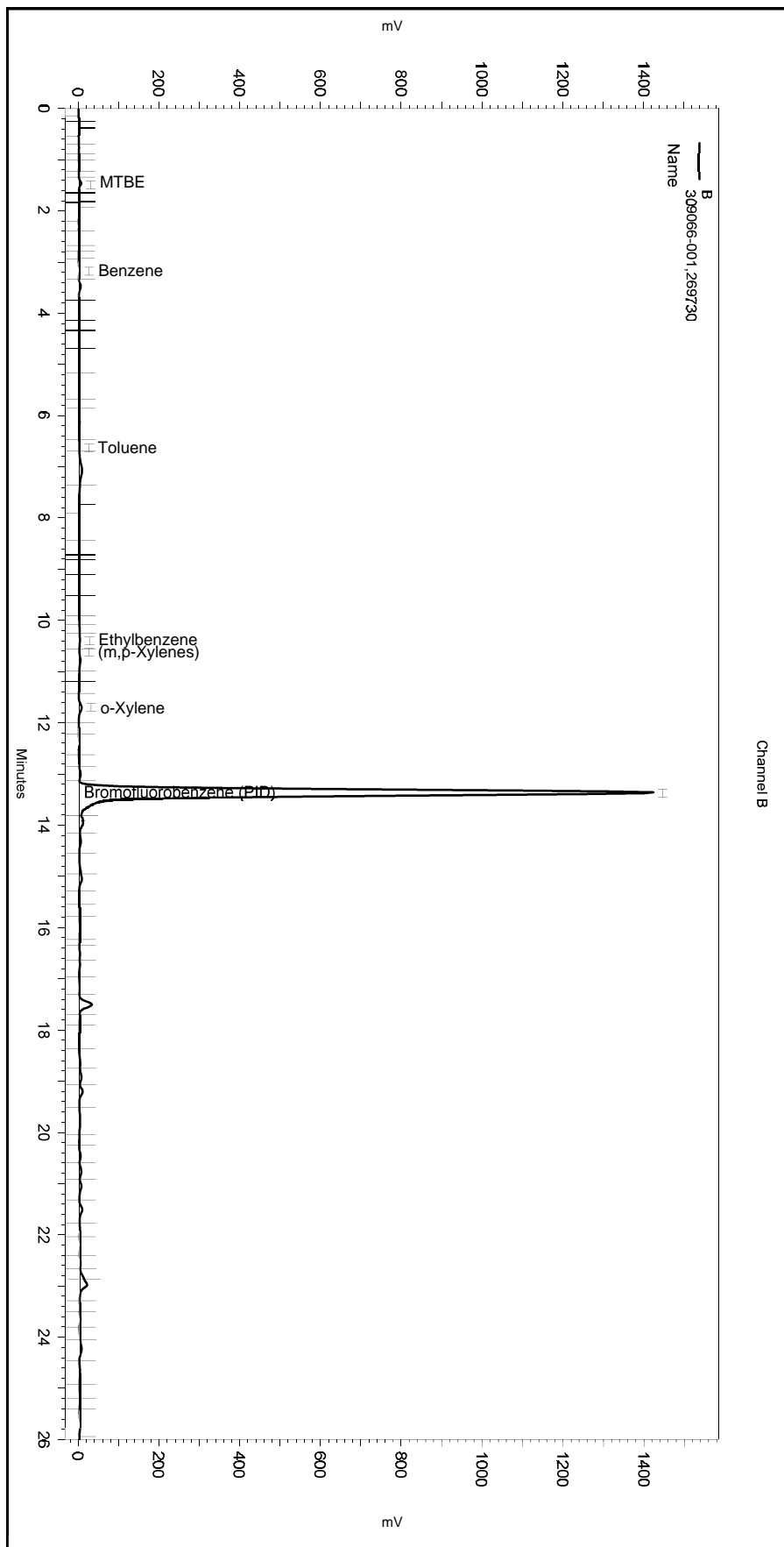
Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-009_C9B1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: 309066-001,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-009
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 2:37:41 PM
 Analysis Date: 4/19/2019 3:06:23 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 --< General Method Parameters >-----

No items selected for this section

 --< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

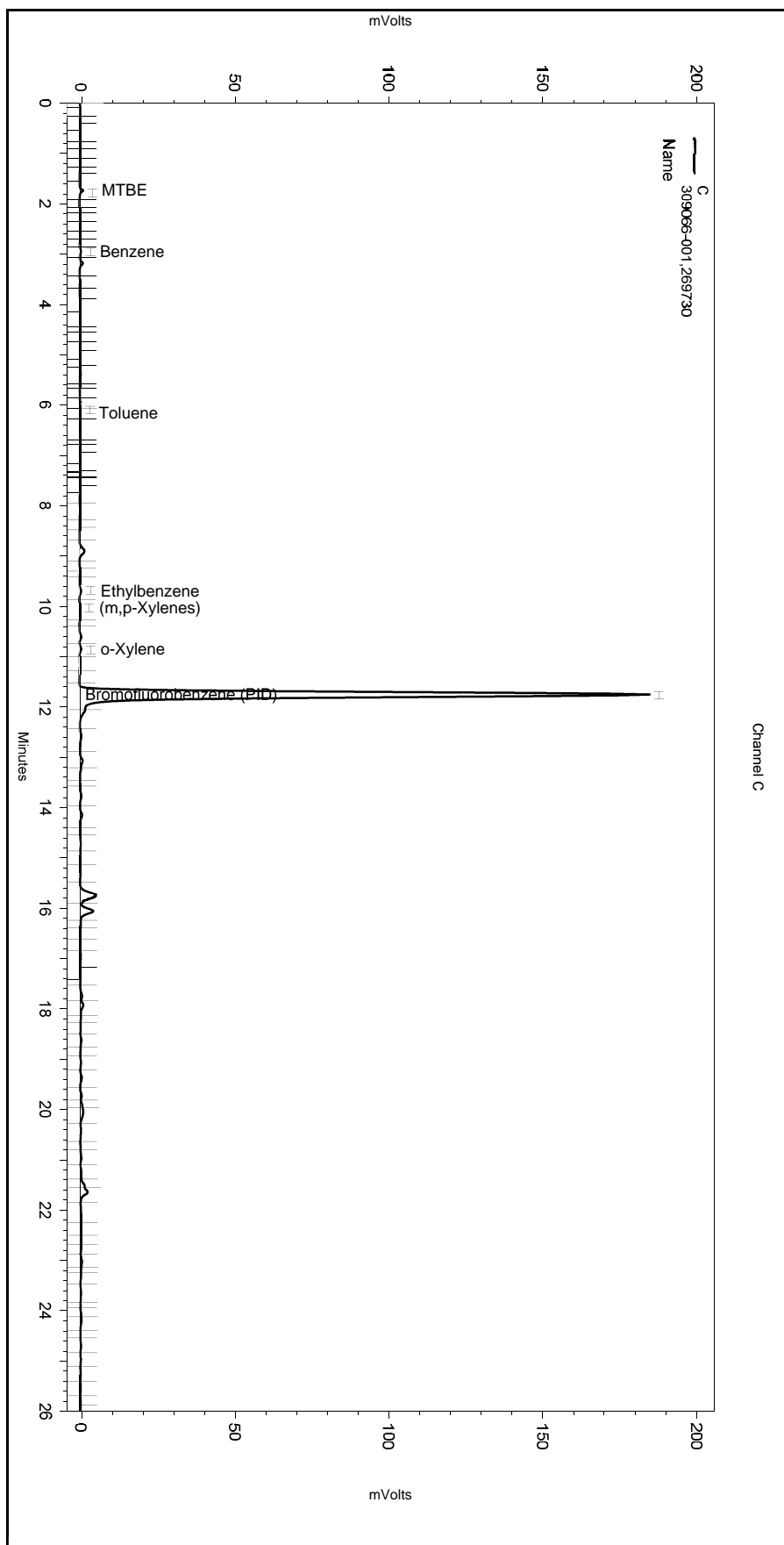
Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048109-009_C9B1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: 309066-001,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-009
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 2:37:41 PM
 Analysis Date: 4/19/2019 3:06:23 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\109-009_C9B1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 309066-002 Client ID : BR11-1GW02
 Seqnum : 329156075019 Matrix : Water Acct : TRC-SF (HEC)
 File : 108_019 Batch : 269681 Time : 18-APR-2019 21:14
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

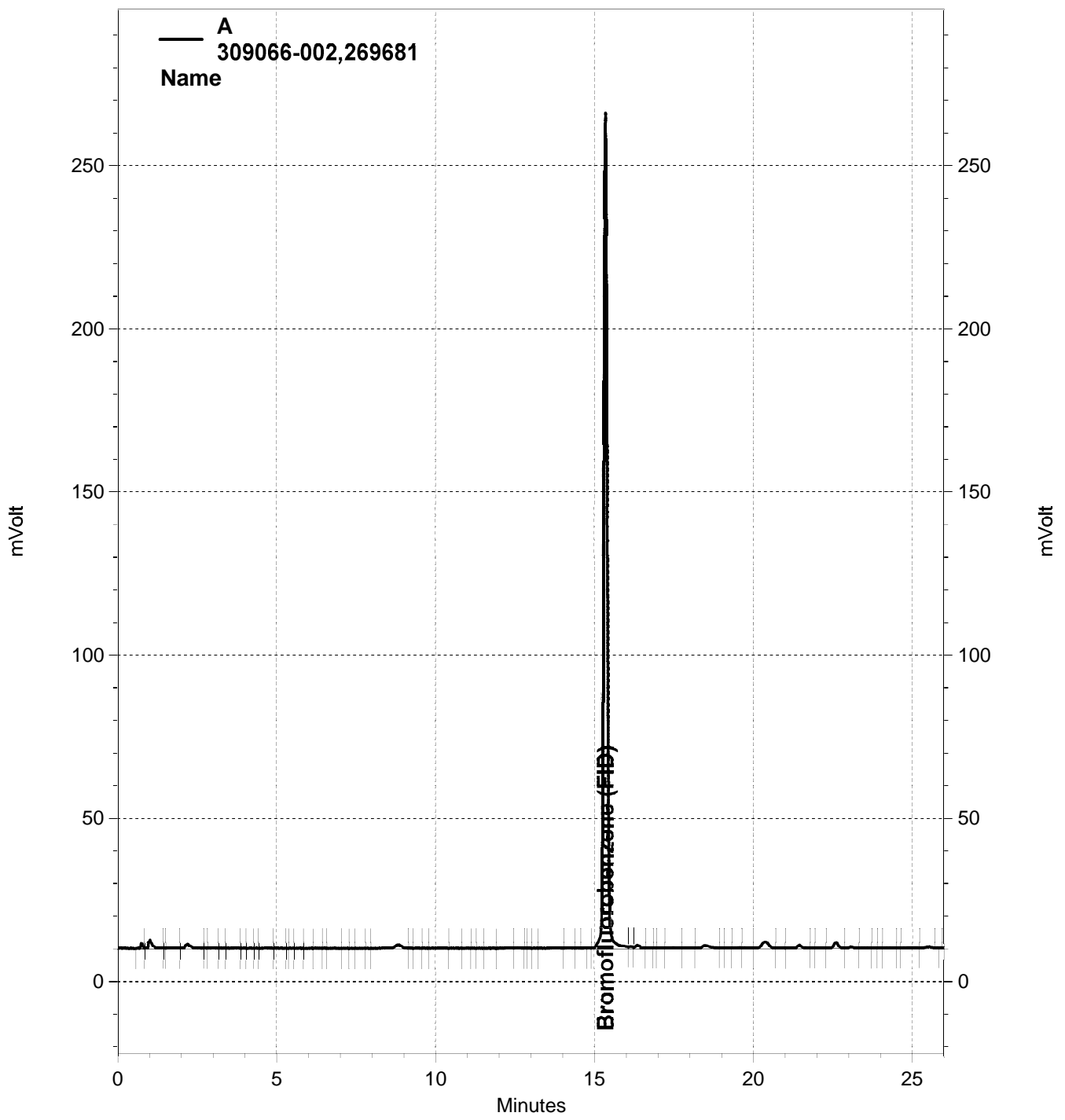
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	329076864001	121.3	ND			50	12	u
Benzene	C	329033758001	0.4435	ND	ND	4%	0.50		
Toluene	B	329033758001	0.5431	ND	ND	51%	0.50		<c+ >c- b*
Ethylbenzene	C	329033758001	0.1897	ND	ND		0.50		<c+
m,p-Xylenes	C	329033758001	0.4082	ND	ND	57%	0.50		<c+
o-Xylene	C	329033758001	0.2685	ND	ND	92%	0.50		<c+ >c- b*

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	329076864001	911.6	180.0	182.3	101	80-120	u
Bromofluorobenzene (PID)	C	329033758001	695.5	180.0	139.1	77	68-126	<c- >c-

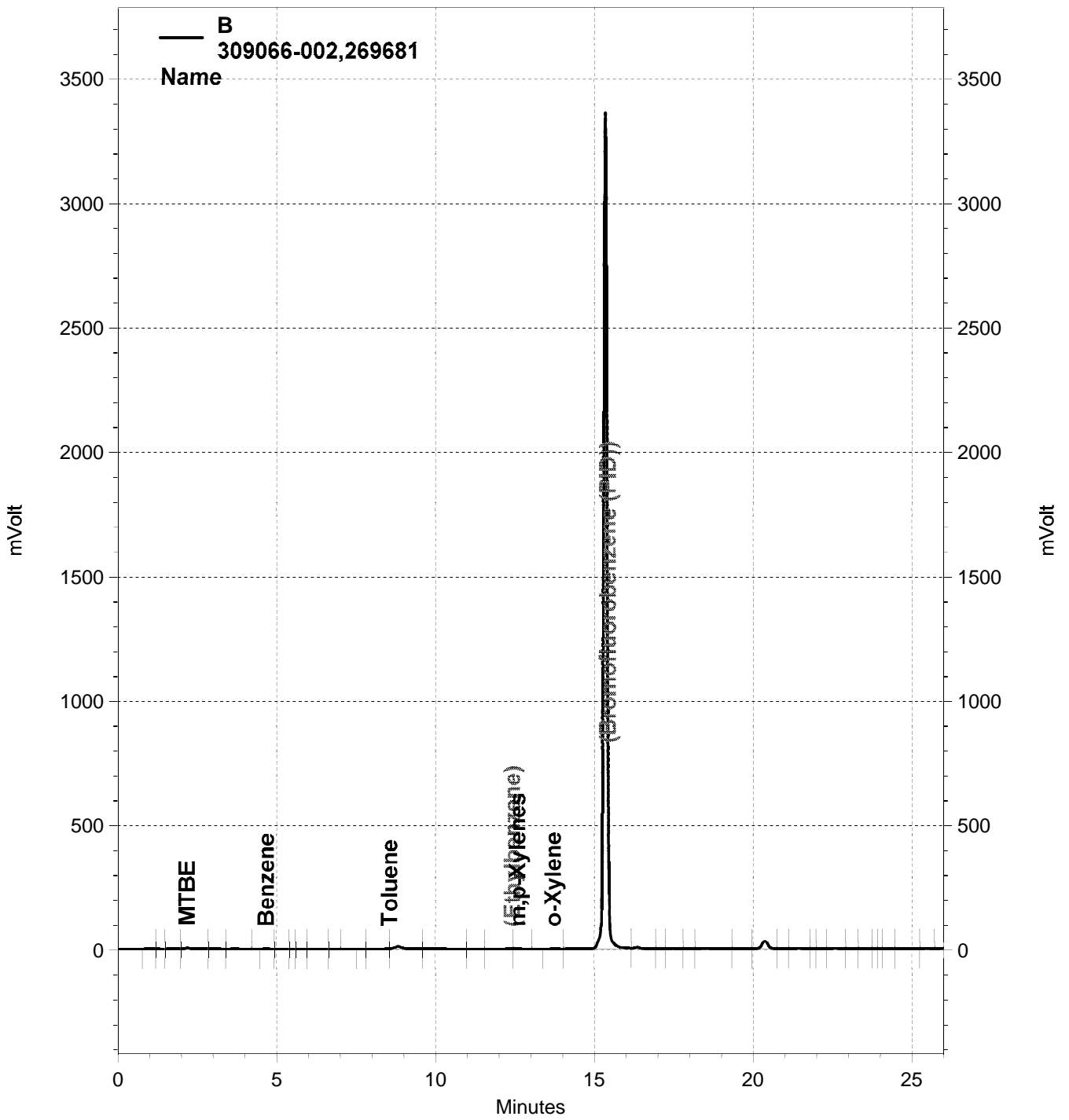
ALE 04/19/19 : RR @ 1x for BTXE

Analyst: ALE Date: 04/19/19 Reviewer: EAH Date: 04/24/19

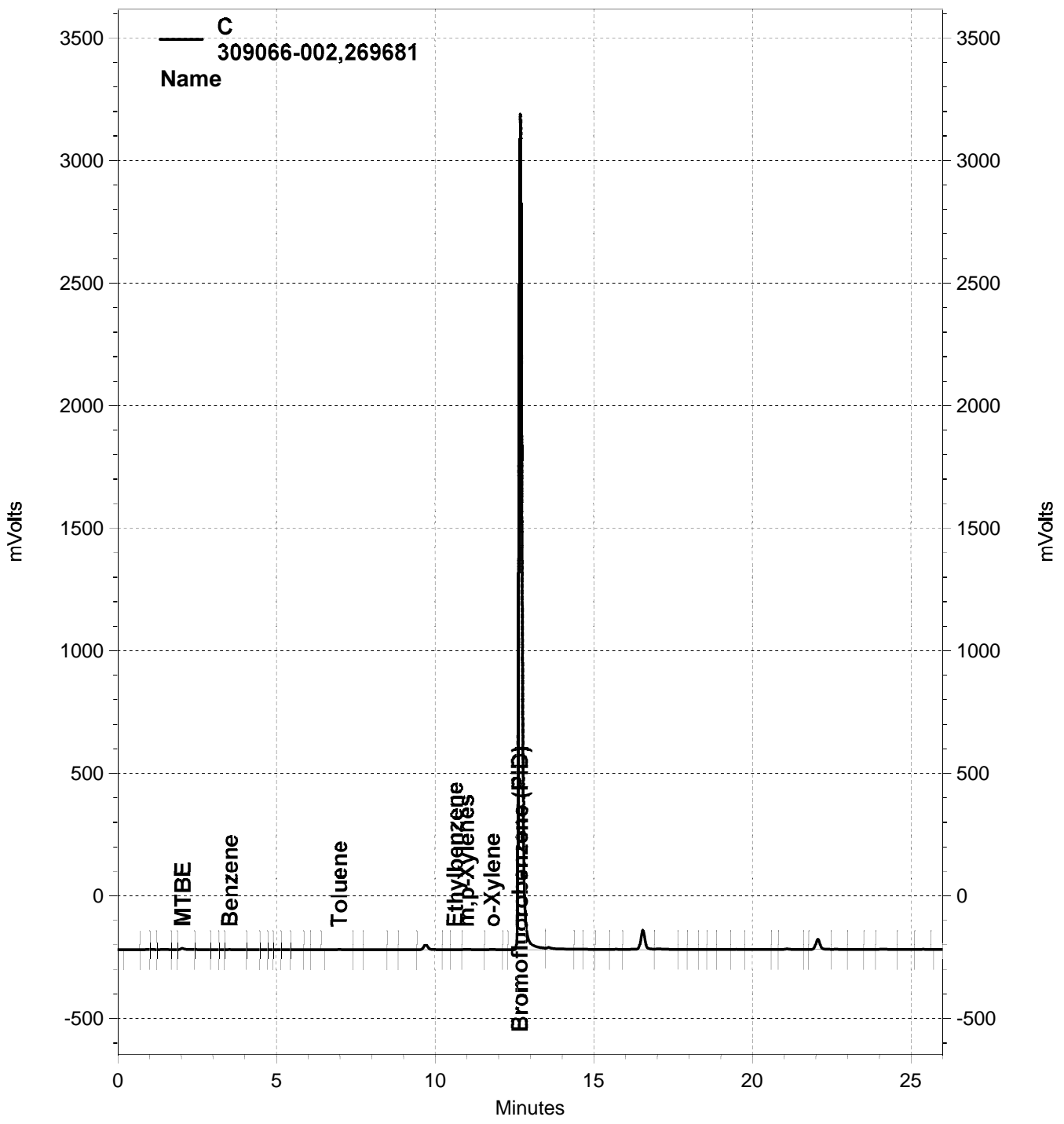
+ = high bias - = low bias < = opening > = closing b = noncompliant c = CCV u = use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-019, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-019, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-019, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: 309066-002,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-019
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:14:05 PM
 Analysis Date: 4/18/2019 9:42:48 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.433	1905551	911.568
GAS:6-10			129864	60.135
GAS:6-12			273097	102.046
GAS:7-12			257105	121.270
JP4:7-12			257105	68.576
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.183	2.200	99415	5.857
Benzene	4.667	4.717	20047	0.424
Toluene	8.550	8.567	23631	0.543
Ethylbenzene		12.417		0.000 BDL
m,p-Xylenes	12.583	12.650	32192	0.735
o-Xylene	13.700	13.750	28467	0.722
Bromofluorobenzene (PID)		15.433		0.000 BDL

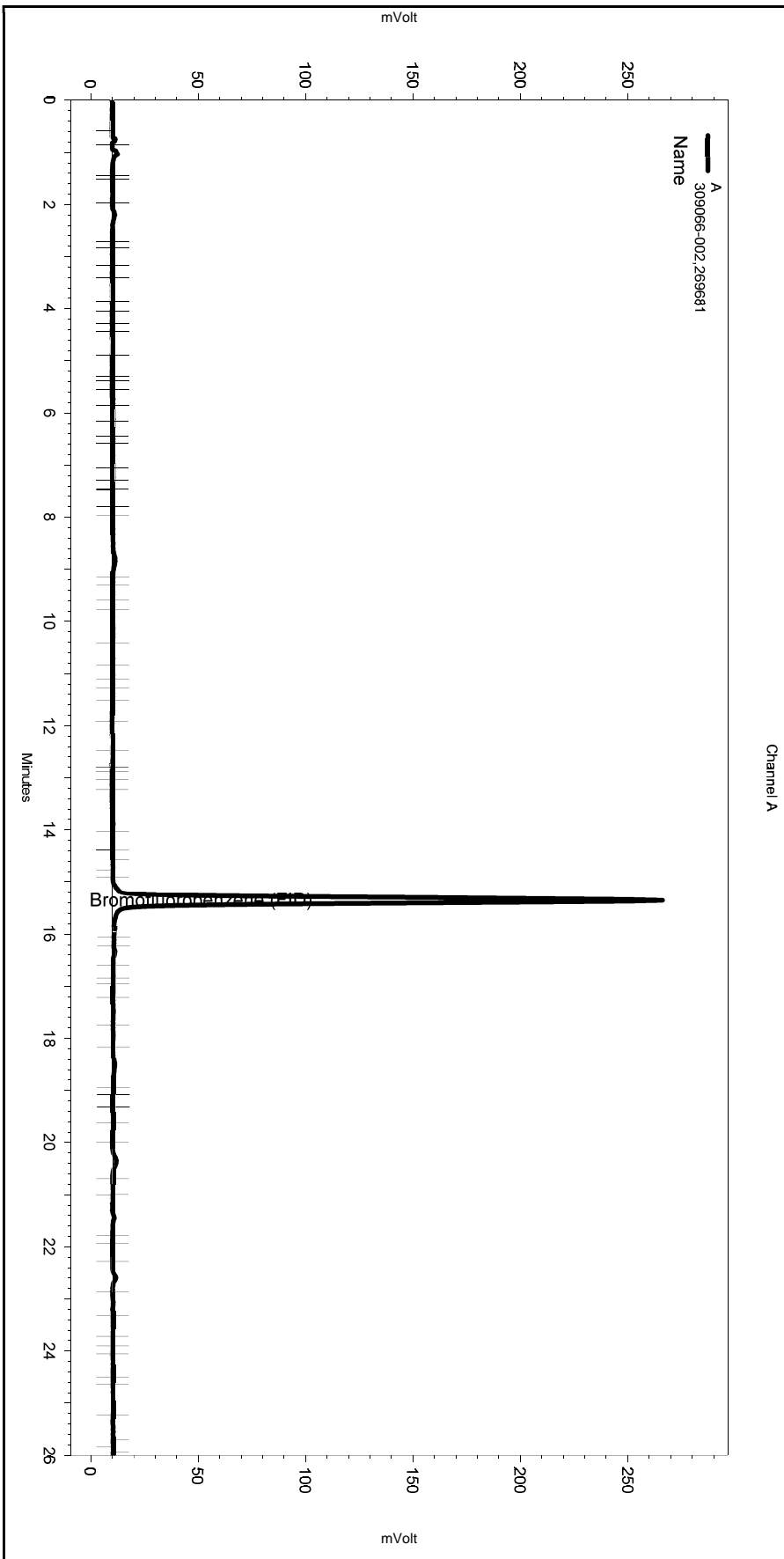
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	2.033	59163	4.120
Benzene	3.533	3.550	17736	0.443
Toluene	6.983	6.983	12115	0.324
Ethylbenzene	10.633	10.633	5816	0.190
m,p-Xylenes	10.983	10.999	15854	0.408
o-Xylene	11.799	11.849	10272	0.269
Bromofluorobenzene (PID)	12.683	12.749	2374003	695.525

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-002,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-019
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:14:05 PM
 Analysis Date: 4/18/2019 9:42:48 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

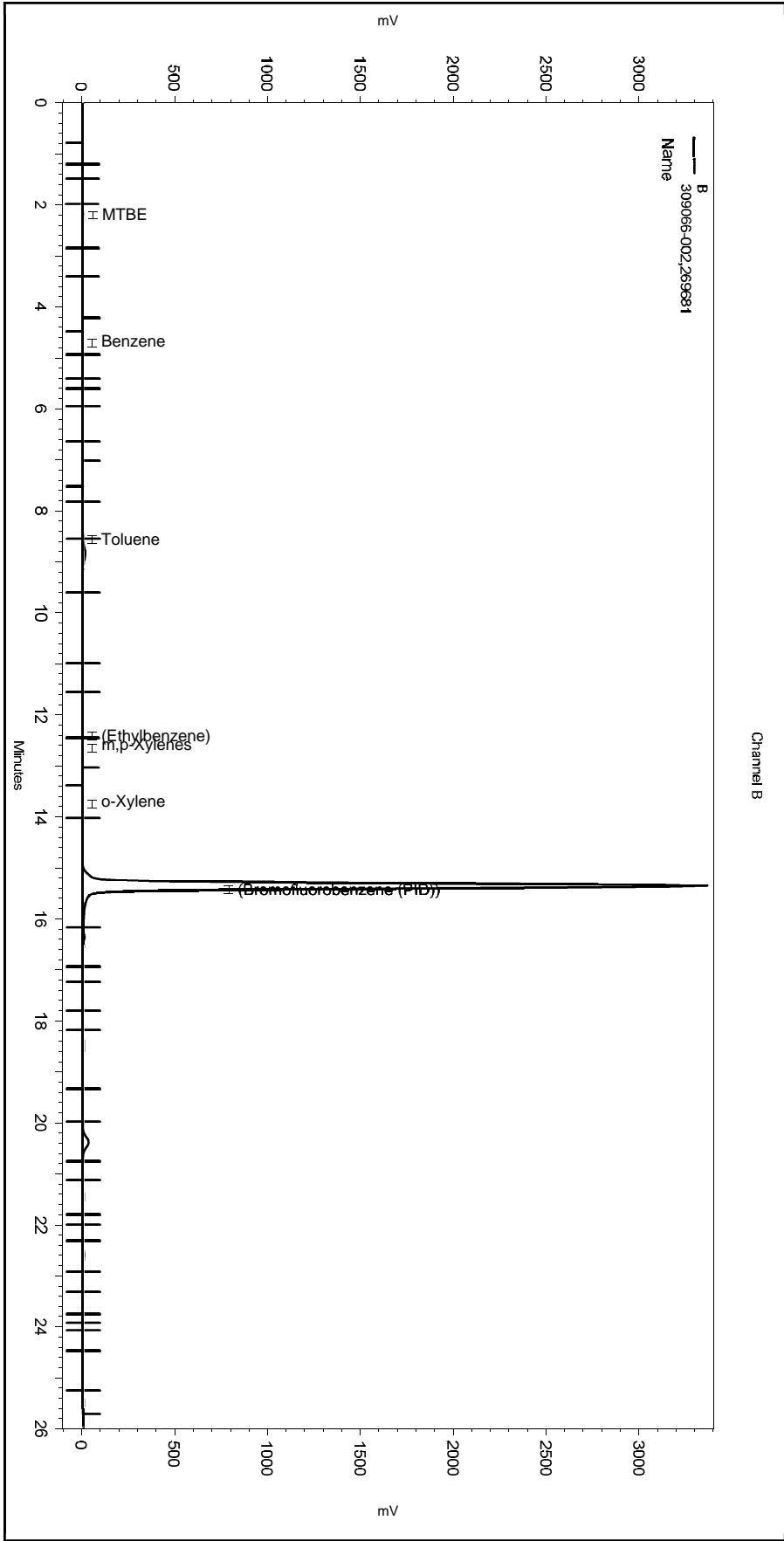
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-019_2D54.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-002,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-019
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:14:05 PM
 Analysis Date: 4/18/2019 9:42:48 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

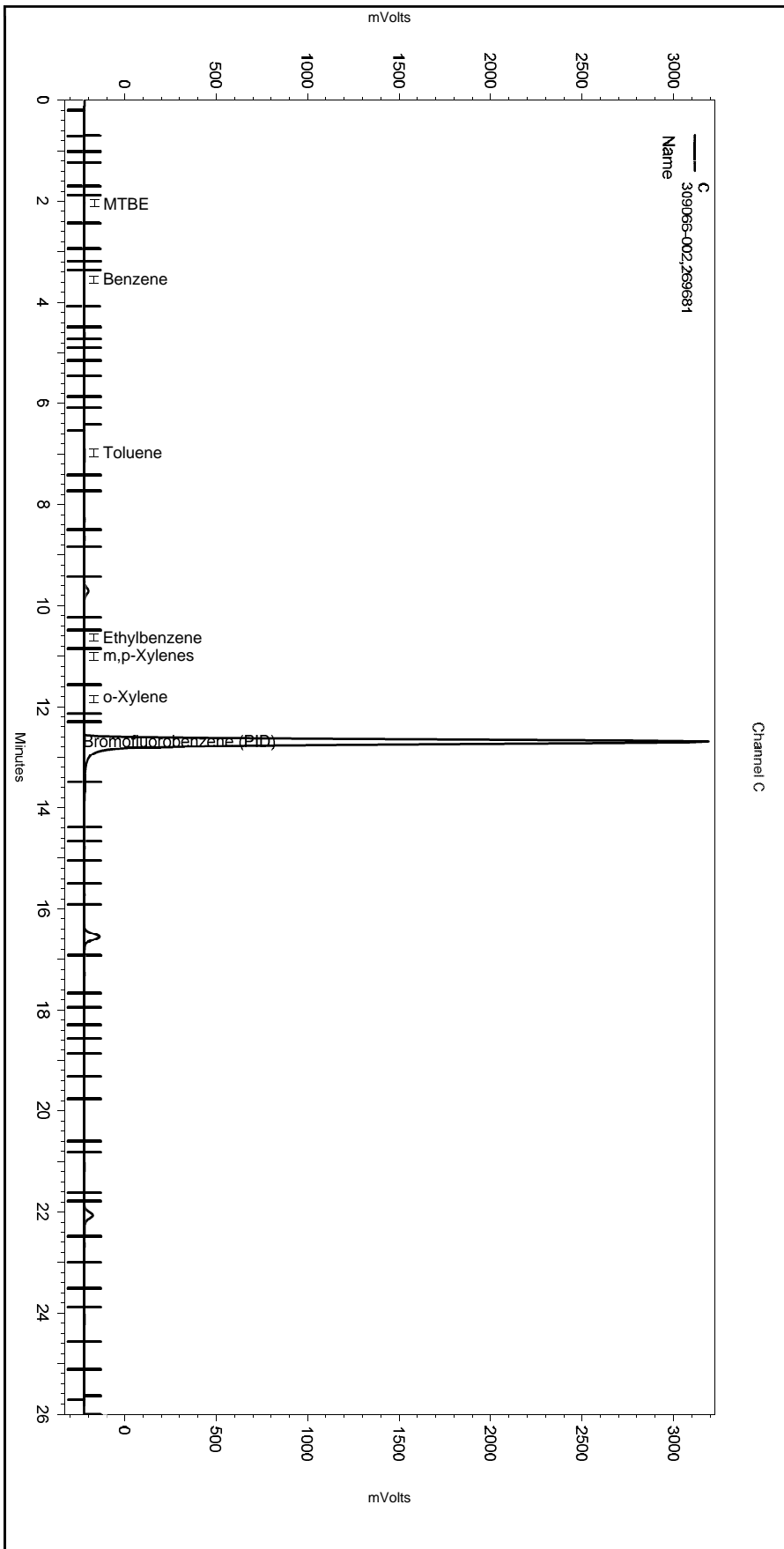
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-019_2D54.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-002,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-019
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:14:05 PM
 Analysis Date: 4/18/2019 9:42:48 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-019_2D54.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC05 Lab ID : 309066-002 Client ID : BR11-1GW02
 Seqnum : 319157509010 Matrix : Water Acct : TRC-SF (HEC)
 File : 109_010 Batch : 269730 Time : 19-APR-2019 15:15
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

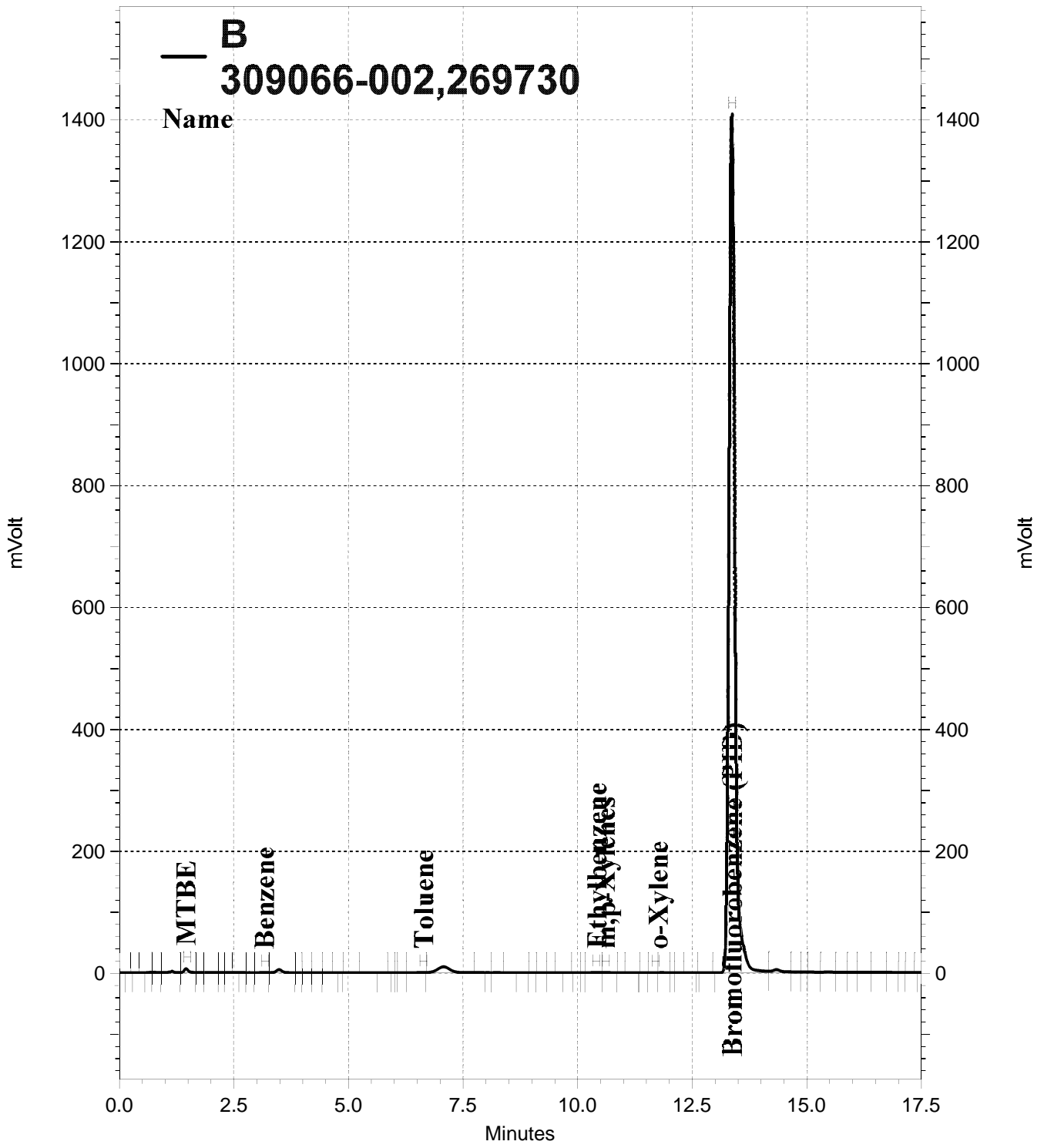
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	319117194001	179.9	ND			50	70	B
Benzene	C	319127265001	0.03809	ND	ND	30%	0.50		u
Toluene	B	319127265001	0.08023	ND	ND	7%	0.50		u
Ethylbenzene	B	319127265001	0.1574	ND	ND	79%	0.50		u
m,p-Xylenes	B	319127265001	0.09412	ND	ND	22%	0.50		u
o-Xylene	B	319127265001	0.03916	ND	ND	126%	0.50		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	319117194001	647.3	180.0	129.5	72*	80-120	<c- >c-
Bromofluorobenzene (PID)	B	319127265001	663.5	180.0	132.7	74	68-126	<c- >c- u

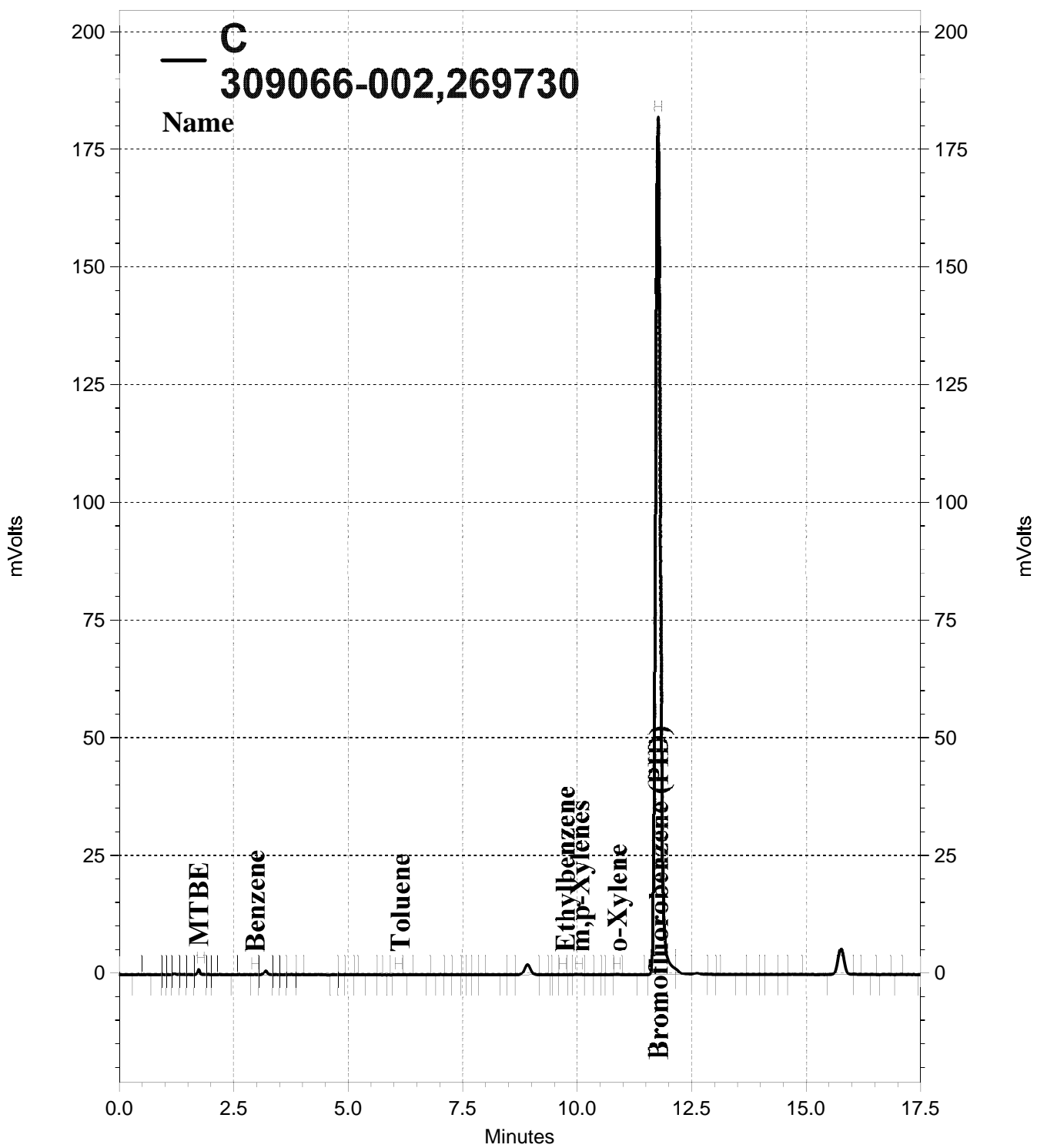
JM2 04/19/19 : Reporting for BTXE only.

Analyst: JM2 Date: 04/19/19 Reviewer: EAH Date: 04/22/19

--low bias <=opening >=closing B=method blank contamination c=CCV u=use



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-010, B



C
309066-002,269730
Name

\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-010, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
Sample Name: 309066-002,269730
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-010
Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
Run Date: 4/19/2019 3:15:21 PM
Analysis Date: 4/19/2019 3:44:04 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: B 1.0

GC05
TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.367	13.367	1160578	647.345
GAS:6-10			316201	139.709
GAS:6-12			384183	147.067
GAS:7-12			363080	179.856
JP4:7-12			363080	81.630
AVGAS:6-10			316201	79.117
AVGAS:7-12			363080	148.085

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.450	1.483	39995	4.306
Benzene	3.167	3.183	1619	0.052
Toluene	6.633	6.633	2297	0.080
Ethylbenzene	10.417	10.400	3880	0.157
m,p-Xylenes	10.600	10.617	2757	0.094
o-Xylene	11.750	11.700	973	0.039
Bromofluorobenzene (PID)	13.367	13.367	12425644	663.524

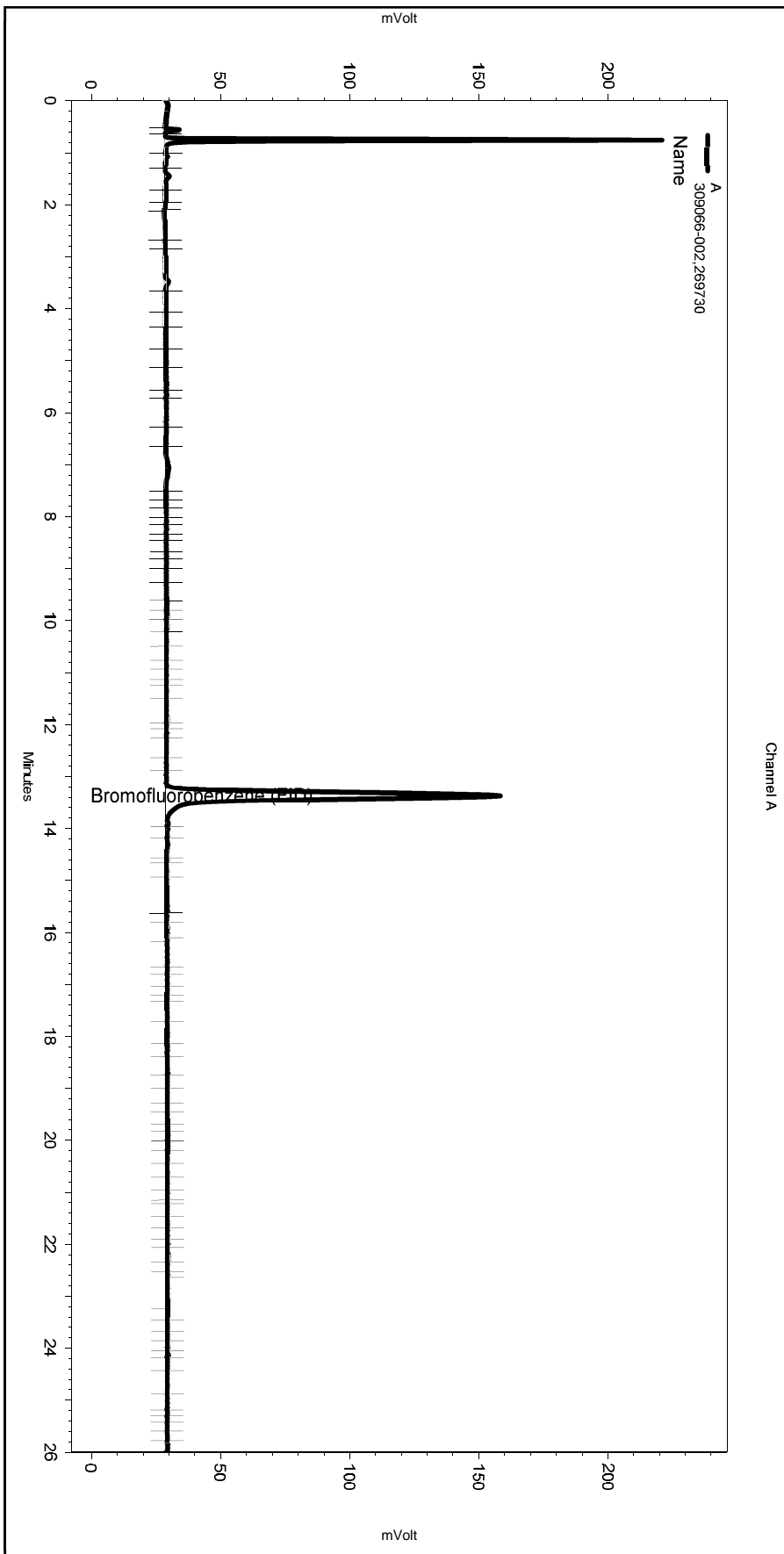
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.733	1.783	4702	4.783
Benzene	2.966	2.966	124	0.038
Toluene	6.133	6.100	220	0.074
Ethylbenzene	9.733	9.683	168	0.068
m,p-Xylenes	10.049	10.033	342	0.117
o-Xylene	10.866	10.866	432	0.171
Bromofluorobenzene (PID)	11.766	11.766	1354561	726.203

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: 309066-002,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-010
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 3:15:21 PM
 Analysis Date: 4/19/2019 3:44:04 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

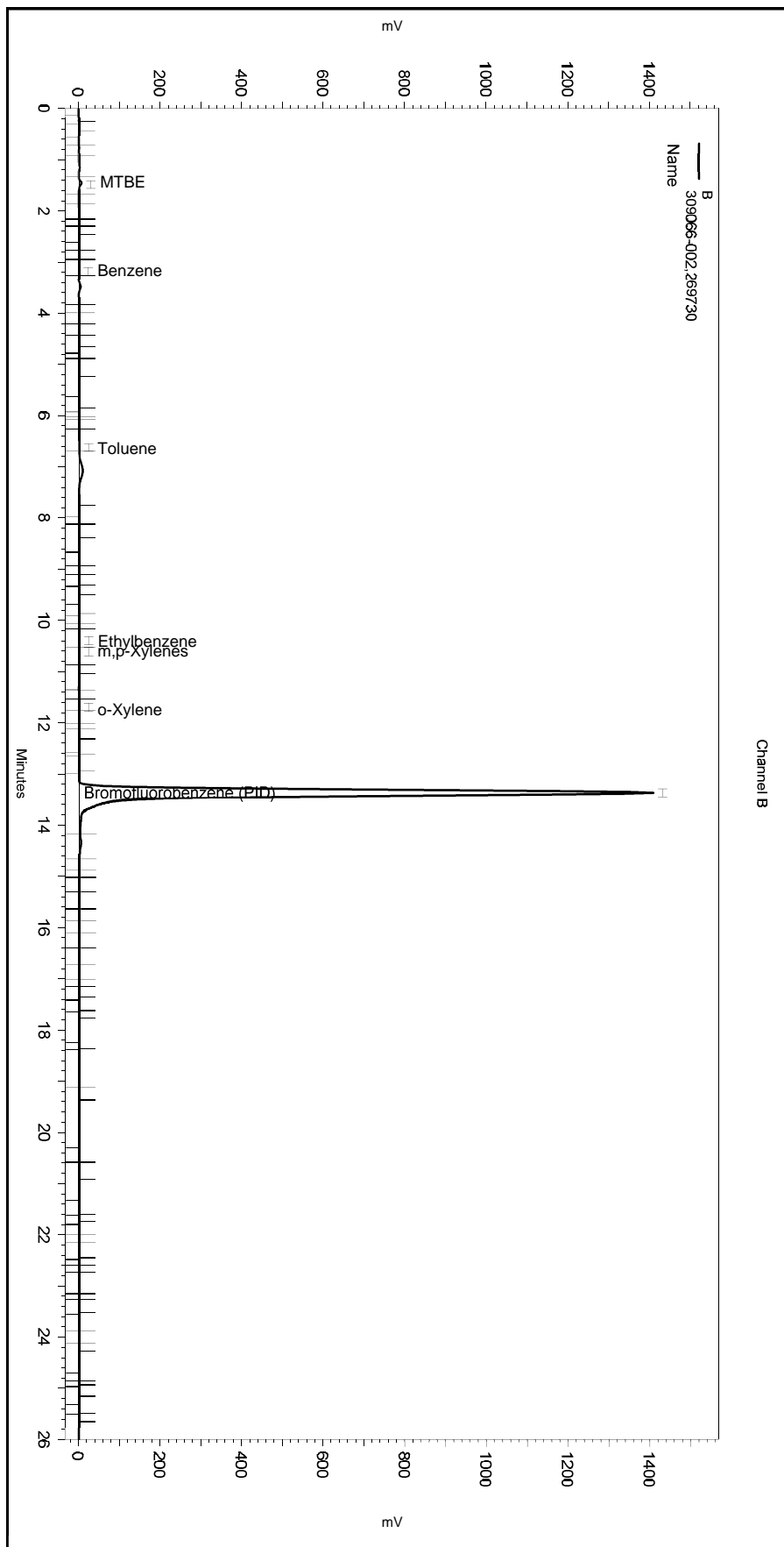
Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-010_C9B2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: 309066-002,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-010
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 3:15:21 PM
 Analysis Date: 4/19/2019 3:44:04 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

Manual Integration Fixes

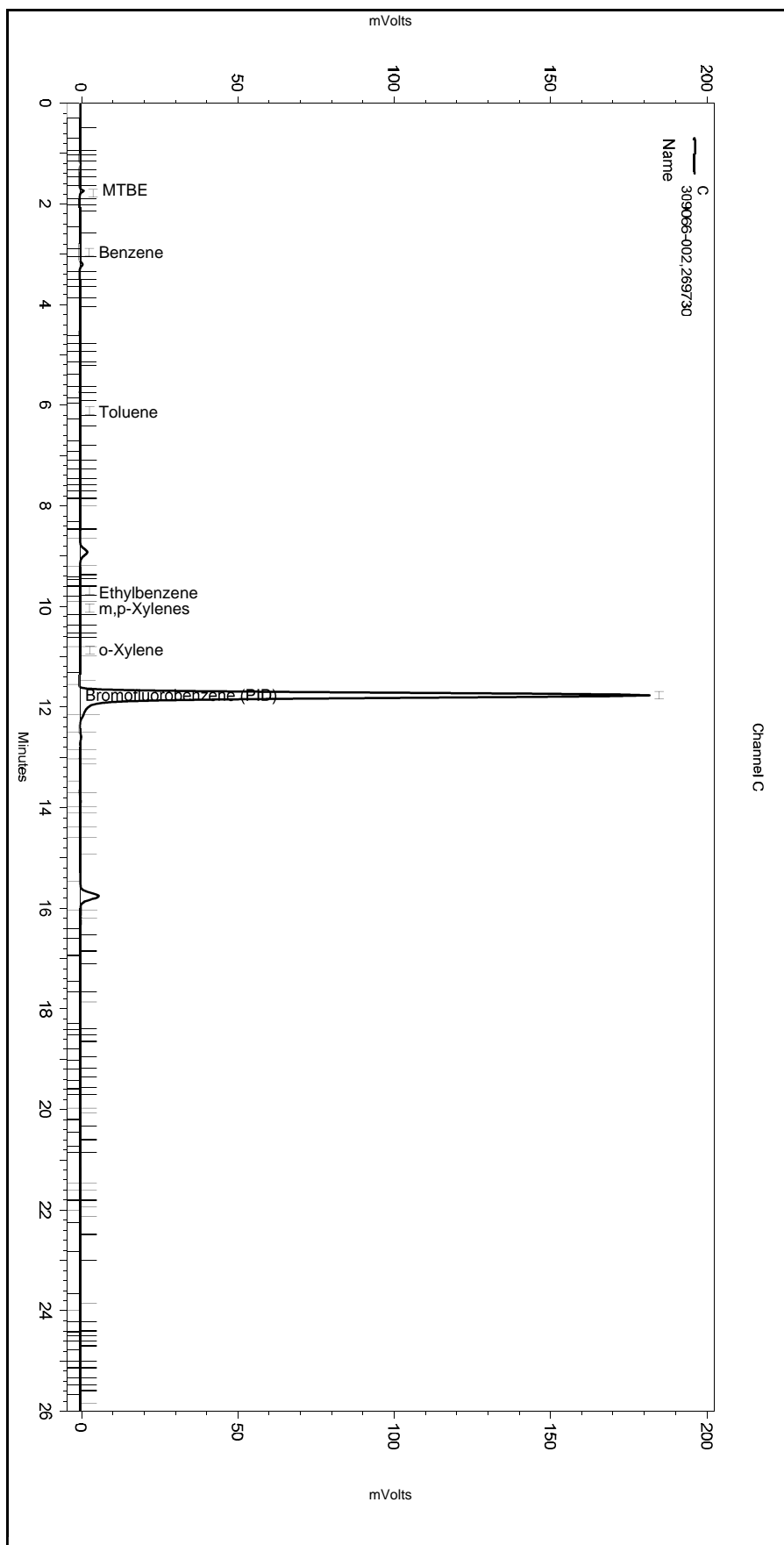
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048109-010_C9B2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: 309066-002,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-010
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 3:15:21 PM
 Analysis Date: 4/19/2019 3:44:04 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-010_C9B2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
---------	------------	-----------------	----------------	-------

None

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 309066-003 Client ID : BR11-1GW03
 Seqnum : 329156075020 Matrix : Water Acct : TRC-SF (HEC)
 File : 108_020 Batch : 269681 Time : 18-APR-2019 21:52
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

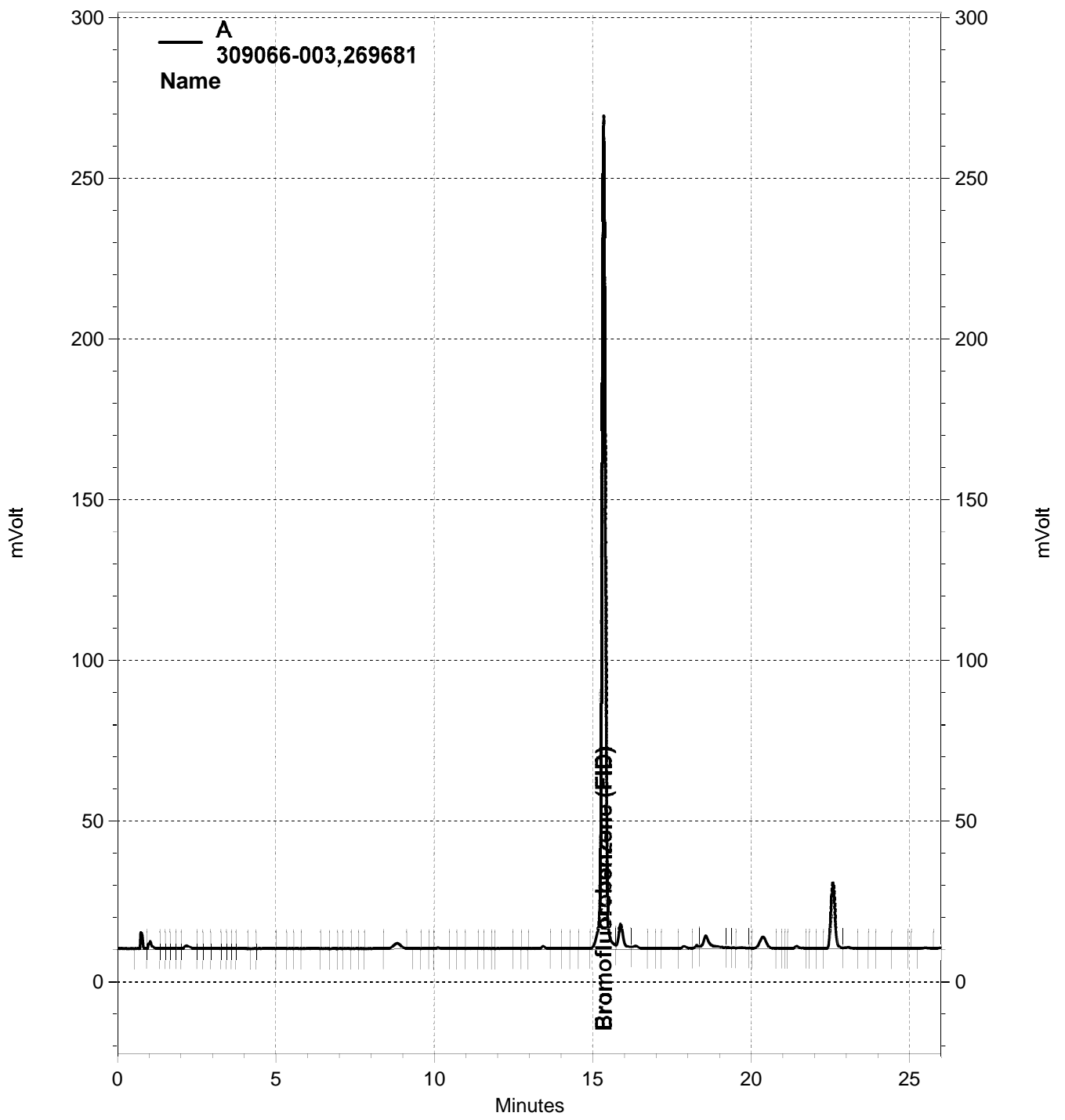
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	329076864001	295.7	59			50	12	u
Benzene	C	329033758001	0.2897	ND	ND	46%	0.50		
Toluene	C	329033758001	0.2031	ND	ND		0.50		<c+
Ethylbenzene	C	329033758001	0.3036	ND	ND		0.50		<c+
m,p-Xylenes	C	329033758001	0.3706	ND	ND	61%	0.50		<c+
o-Xylene	C	329033758001	0.7463	ND	ND		0.50		<c+ >c- b*

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	329076864001	931.4	180.0	186.3	103	80-120	u
Bromofluorobenzene (PID)	C	329033758001	699.7	180.0	139.9	78	68-126	<c- >c-

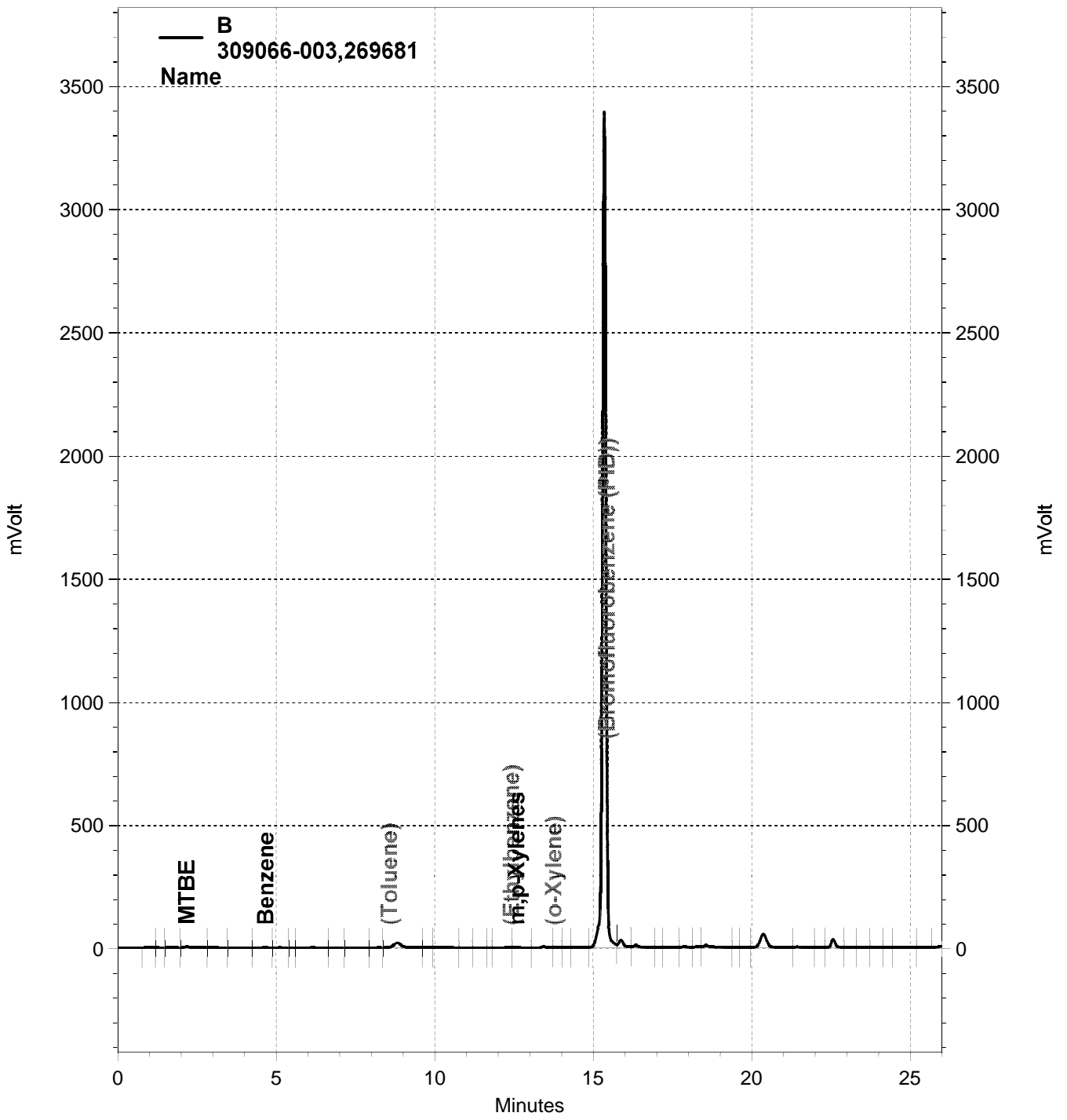
ALE 04/19/19 : RR @ 1x for BTXE

Analyst: ALE Date: 04/19/19 Reviewer: EAH Date: 04/24/19

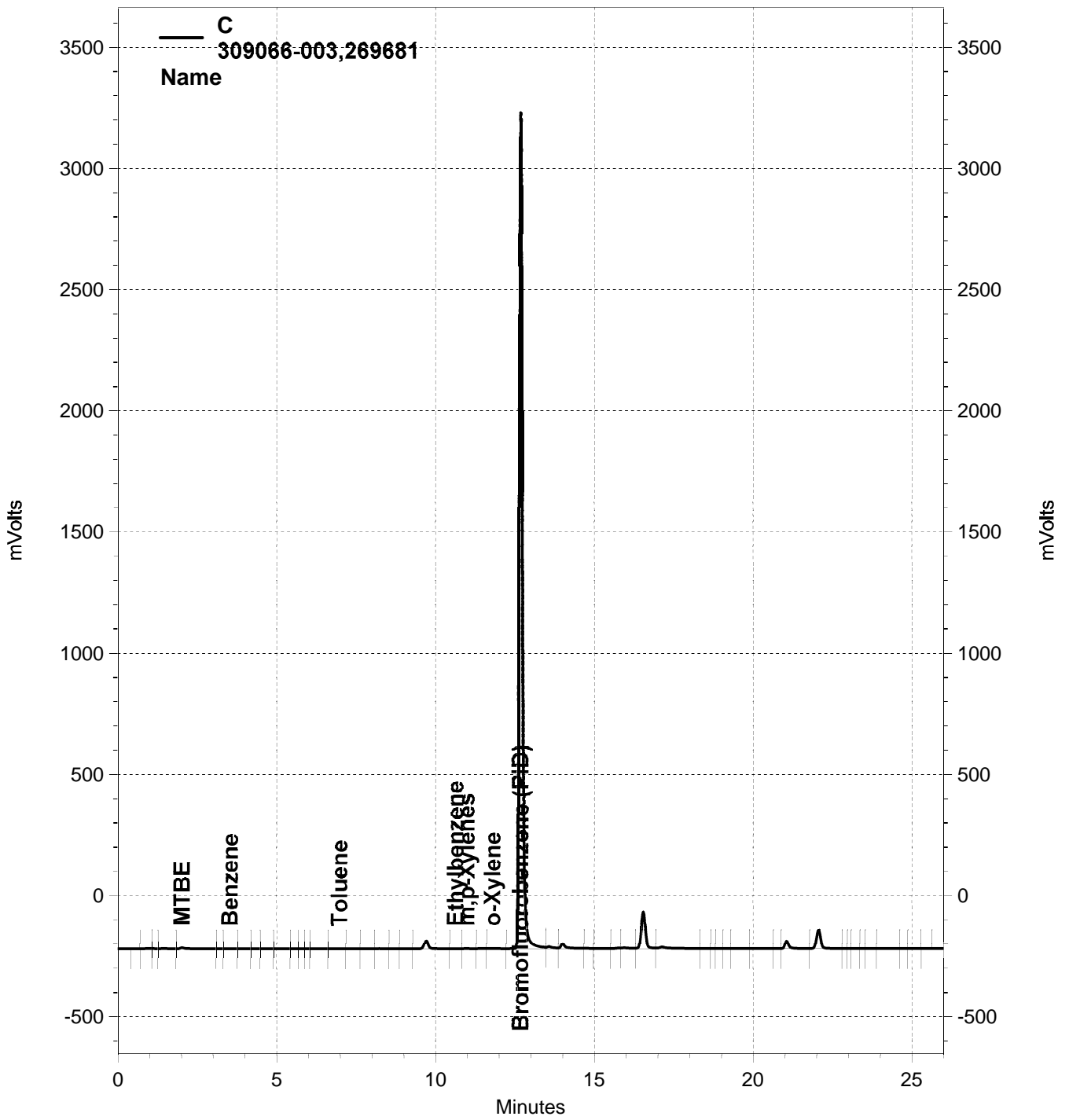
+ = high bias - = low bias < = opening > = closing b = noncompliant c = CCV u = use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-020, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-020, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-020, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: 309066-003,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-020
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:52:34 PM
 Analysis Date: 4/18/2019 10:21:17 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.433	1946907	931.351
GAS:6-10			219574	101.675
GAS:6-12			643451	240.434
GAS:7-12			626853	295.670
JP4:7-12			626853	167.196
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.183	2.200	84279	4.965
Benzene	4.667	4.717	21892	0.463
Toluene		8.567		0.000 BDL
Ethylbenzene		12.417		0.000 BDL
m,p-Xylenes	12.583	12.650	30364	0.694
o-Xylene		13.750		0.000 BDL
Bromofluorobenzene (PID)		15.433		0.000 BDL

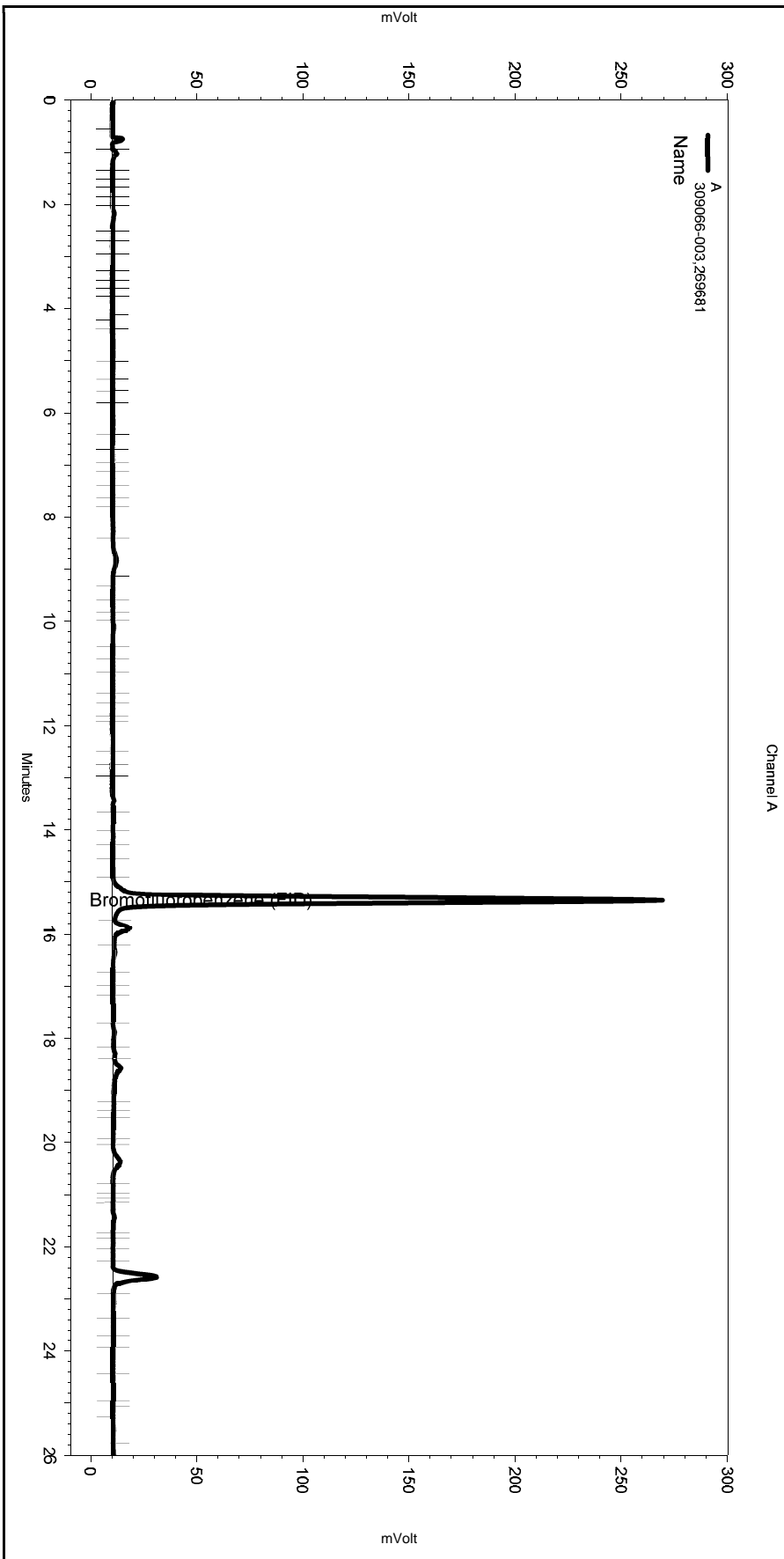
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	2.033	67054	4.670
Benzene	3.533	3.550	11585	0.290
Toluene	6.983	6.983	7596	0.203
Ethylbenzene	10.633	10.633	9309	0.304
m,p-Xylenes	10.983	10.999	14393	0.371
o-Xylene	11.799	11.849	28551	0.746
Bromofluorobenzene (PID)	12.683	12.749	23883751	699.736

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-003,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-020
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:52:34 PM
 Analysis Date: 4/18/2019 10:21:17 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

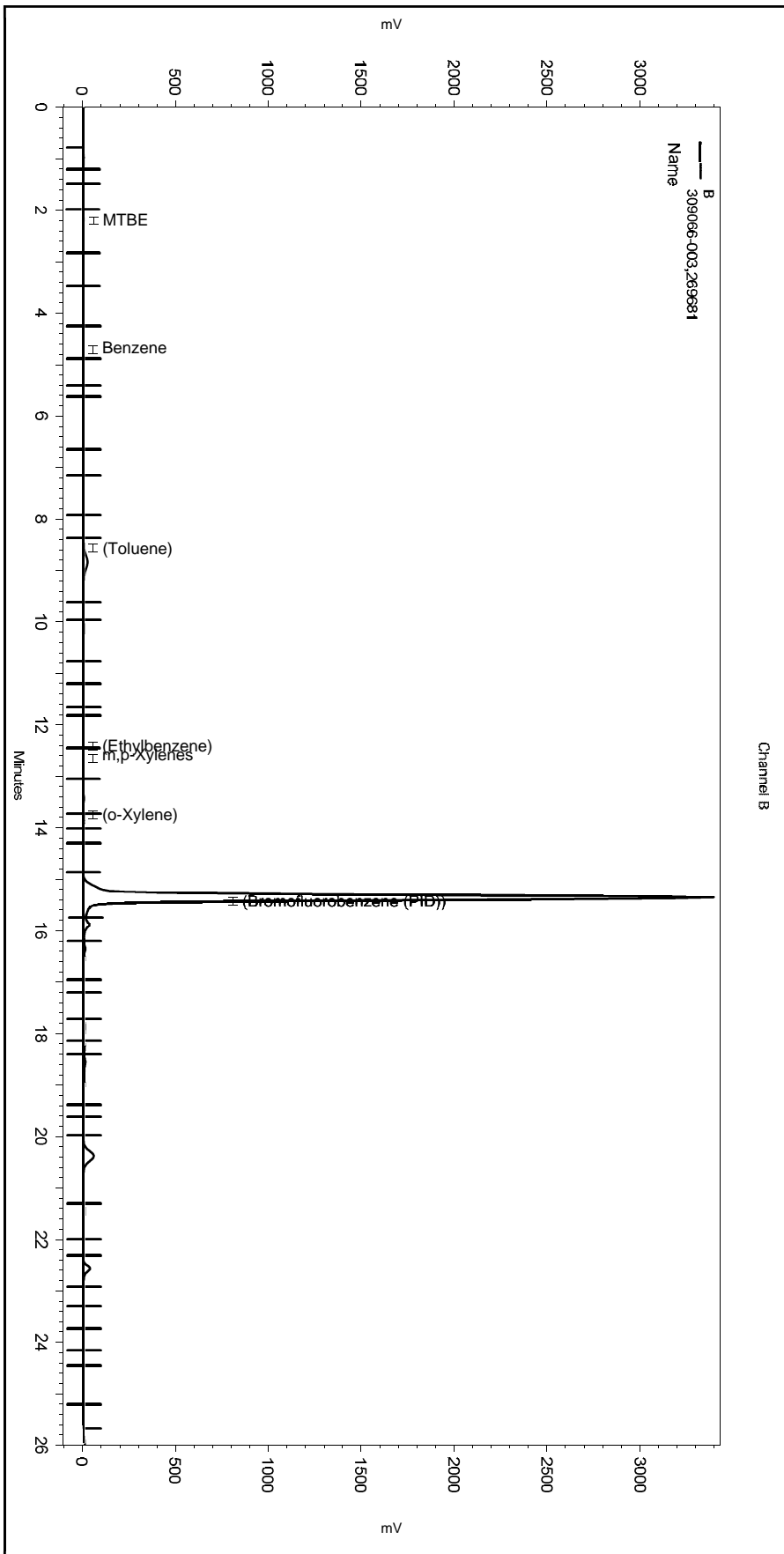
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-020_2D55.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-003,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-020
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:52:34 PM
 Analysis Date: 4/18/2019 10:21:17 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

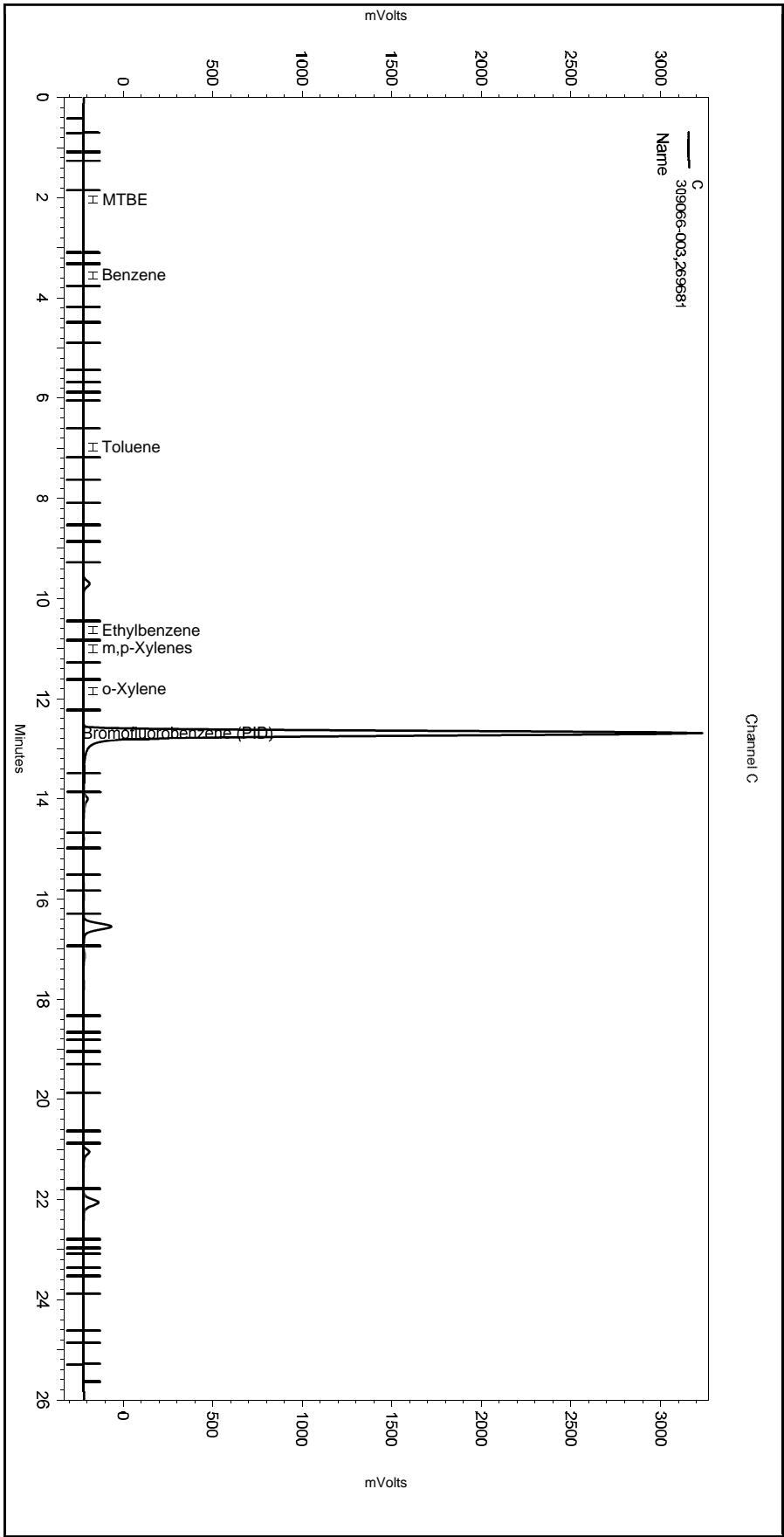
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-020_2D55.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-003,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-020
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:52:34 PM
 Analysis Date: 4/18/2019 10:21:17 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-020_2D55.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC05 Lab ID : 309066-003 Client ID : BR11-1GW03
 Seqnum : 319157509011 Matrix : Water Acct : TRC-SF (HEC)
 File : 109_011 Batch : 269730 Time : 19-APR-2019 15:53
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

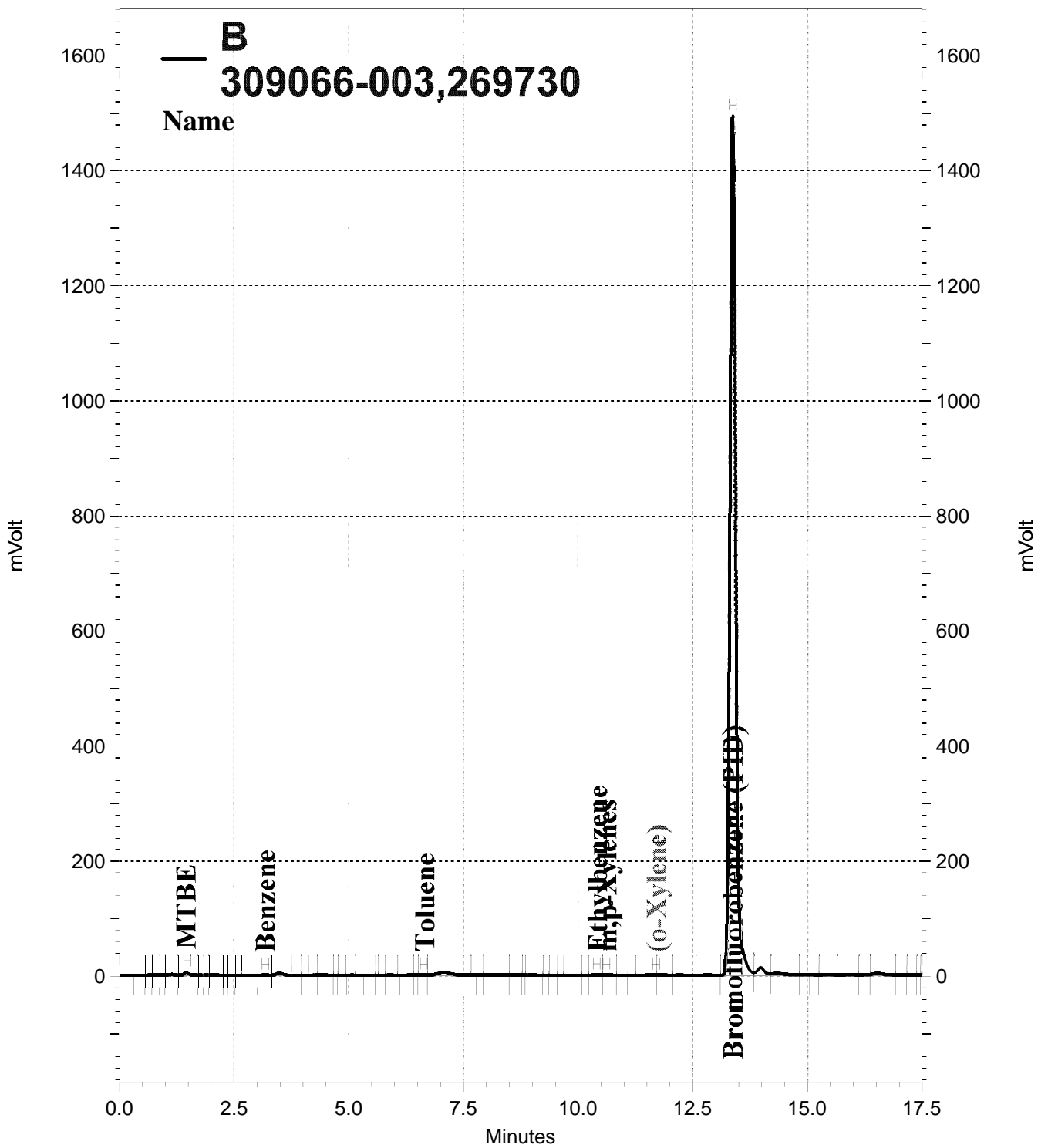
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	319117194001	191.4	ND			50	70	B
Benzene	C	319127265001	0	ND	ND		0.50		u
Toluene	B	319127265001	0.07181	ND	ND	23%	0.50		u
Ethylbenzene	B	319127265001	0.1910	ND	ND	167%	0.50		u
m,p-Xylenes	B	319127265001	0.1174	ND	ND	27%	0.50		u
o-Xylene	B	319127265001	0	ND	ND		0.50		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	319117194001	667.8	180.0	133.6	74*	80-120	<c- >c-
Bromofluorobenzene (PID)	B	319127265001	685.6	180.0	137.1	76	68-126	<c- >c- u

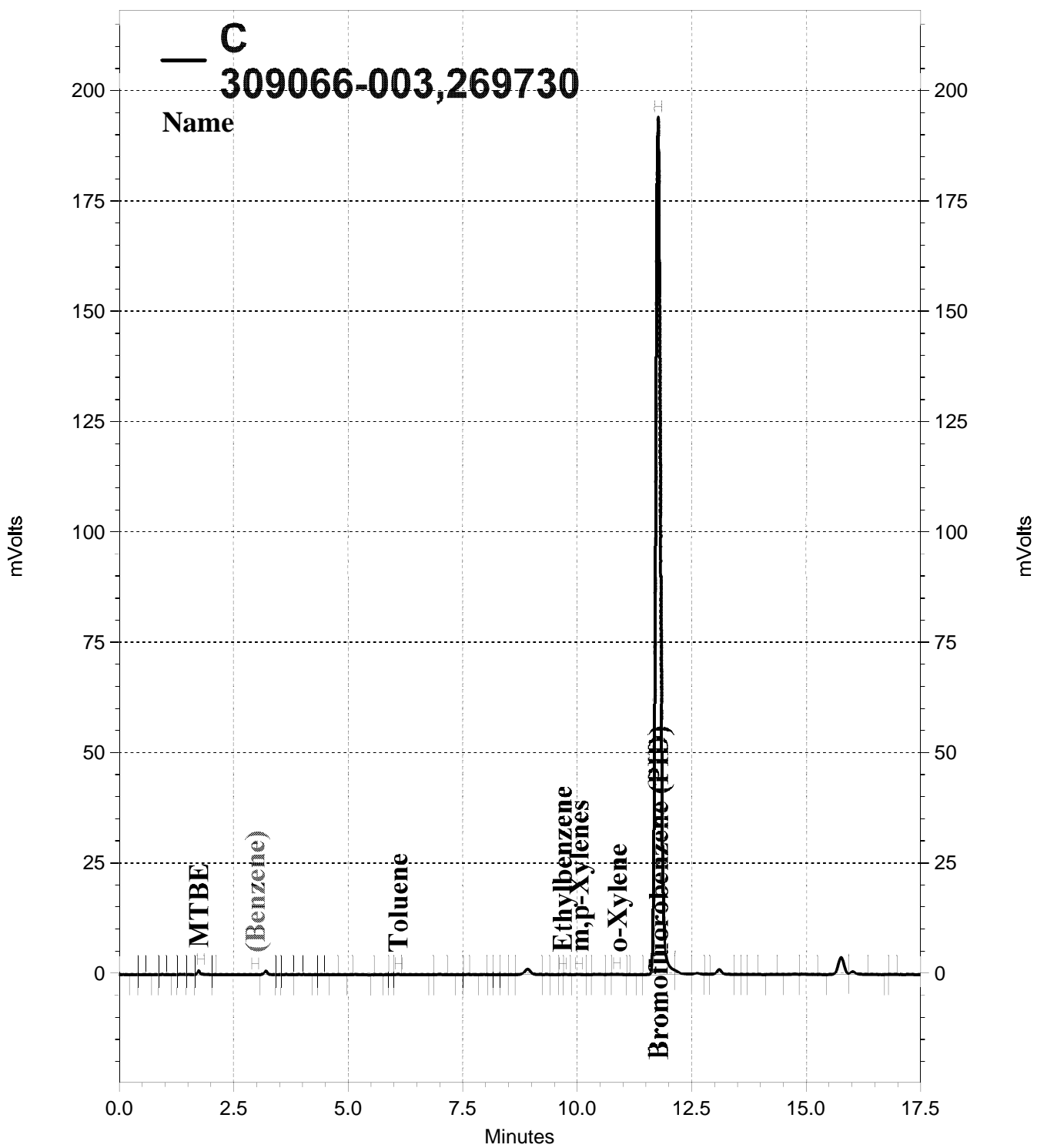
JM2 04/19/19 : Reporting for BTXE only.

Analyst: JM2 Date: 04/19/19 Reviewer: EAH Date: 04/22/19

--low bias <=opening >=closing B=method blank contamination c=CCV u=use



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-011, B



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-011, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq	Software Version 3.1.7
Sample Name: 309066-003,269730	Run Date: 4/19/2019 3:53:02 PM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-011	Analysis Date: 4/19/2019 4:21:45 PM
Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTX088e.met	Vial & pH or Core ID: B 1.0

GC05
TVH Instrument Results

Channel A: RTX-502.2 FID

A Results				
Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.367	13.367	1197186	667.764
GAS:6-10			316731	139.943
GAS:6-12			420052	160.797
GAS:7-12			386360	191.388
JP4:7-12			386360	86.864
AVGAS:6-10			316731	79.250
AVGAS:7-12			386360	157.580

BTXE Instrument Results

Channel B: RTX-502.2 PID

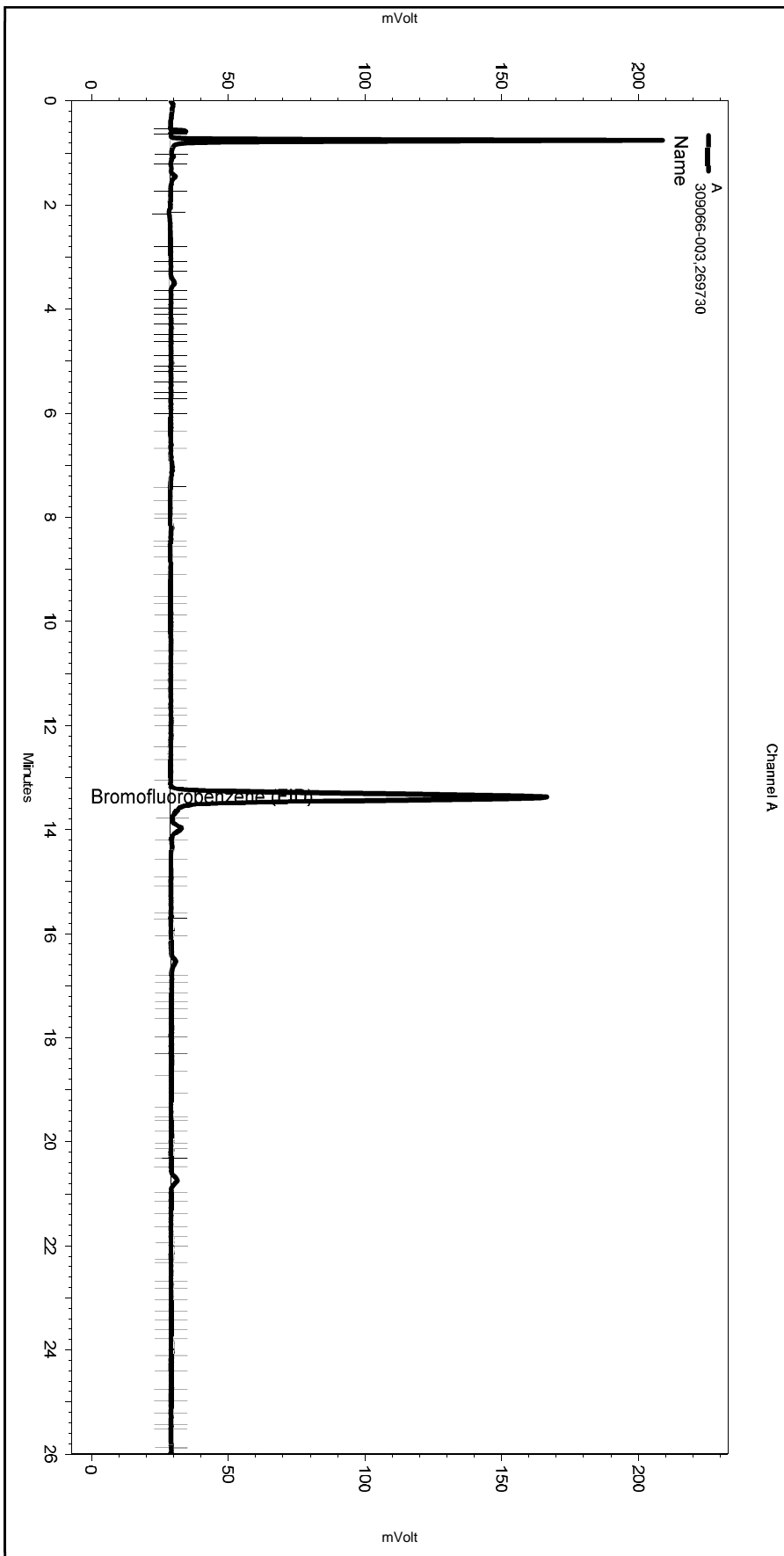
B Results				
Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.450	1.483	38482	4.143
Benzene	3.183	3.183	2393	0.076
Toluene	6.650	6.633	2056	0.072
Ethylbenzene	10.417	10.400	4708	0.191
m,p-Xylenes	10.617	10.617	3439	0.117
o-Xylene		11.700		0.000 BDL
Bromofluorobenzene (PID)	13.367	13.367	12839640	685.631

Channel C: RTX-1 PID

C Results				
Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.733	1.783	4687	4.768
Benzene		2.966		0.000 BDL
Toluene	6.083	6.100	169	0.057
Ethylbenzene	9.666	9.683	42	0.017
m,p-Xylenes	10.033	10.033	261	0.089
o-Xylene	10.866	10.866	1049	0.416
Bromofluorobenzene (PID)	11.766	11.766	1428297	765.734

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: 309066-003,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-011
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 3:53:02 PM
 Analysis Date: 4/19/2019 4:21:45 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

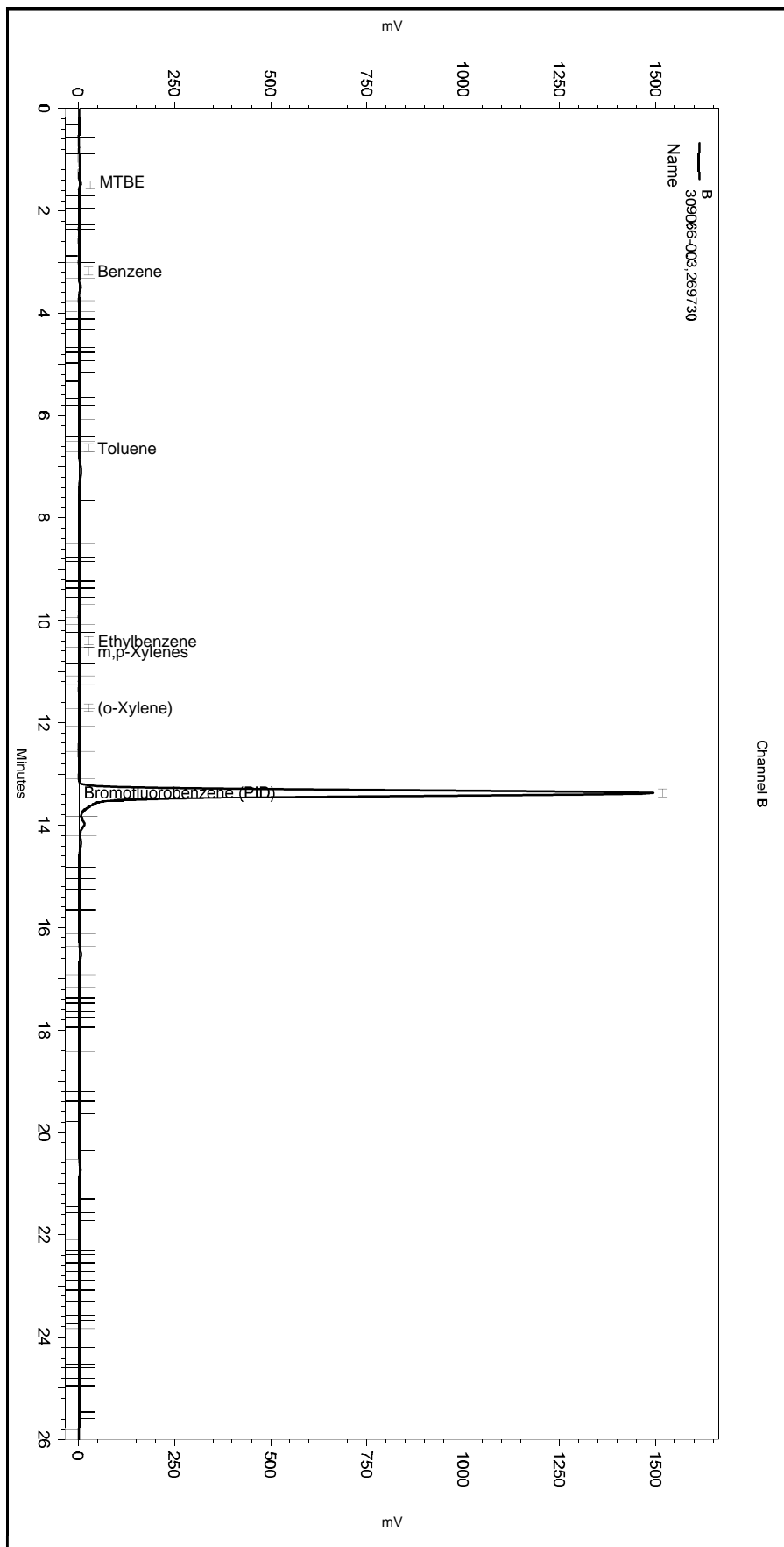
Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-011_C9B3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: 309066-003,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-011
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 3:53:02 PM
 Analysis Date: 4/19/2019 4:21:45 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

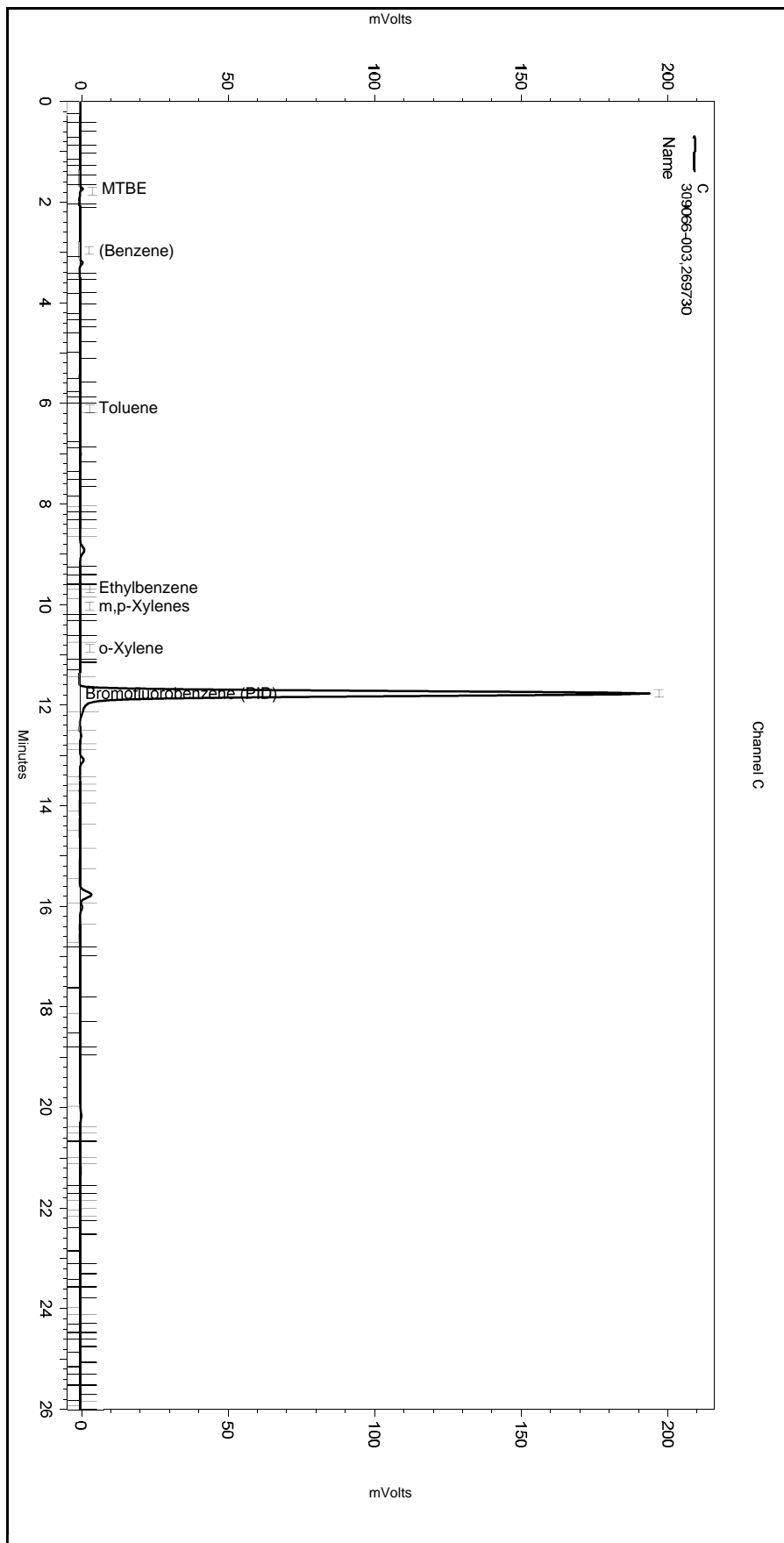
Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048109-011_C9B3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: 309066-003,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-011
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 3:53:02 PM
 Analysis Date: 4/19/2019 4:21:45 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-011_C9B3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 309066-004 Client ID : DUP04182019-01
 Seqnum : 329156075021 Matrix : Water Acct : TRC-SF (HEC)
 File : 108_021 Batch : 269681 Time : 18-APR-2019 22:31
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

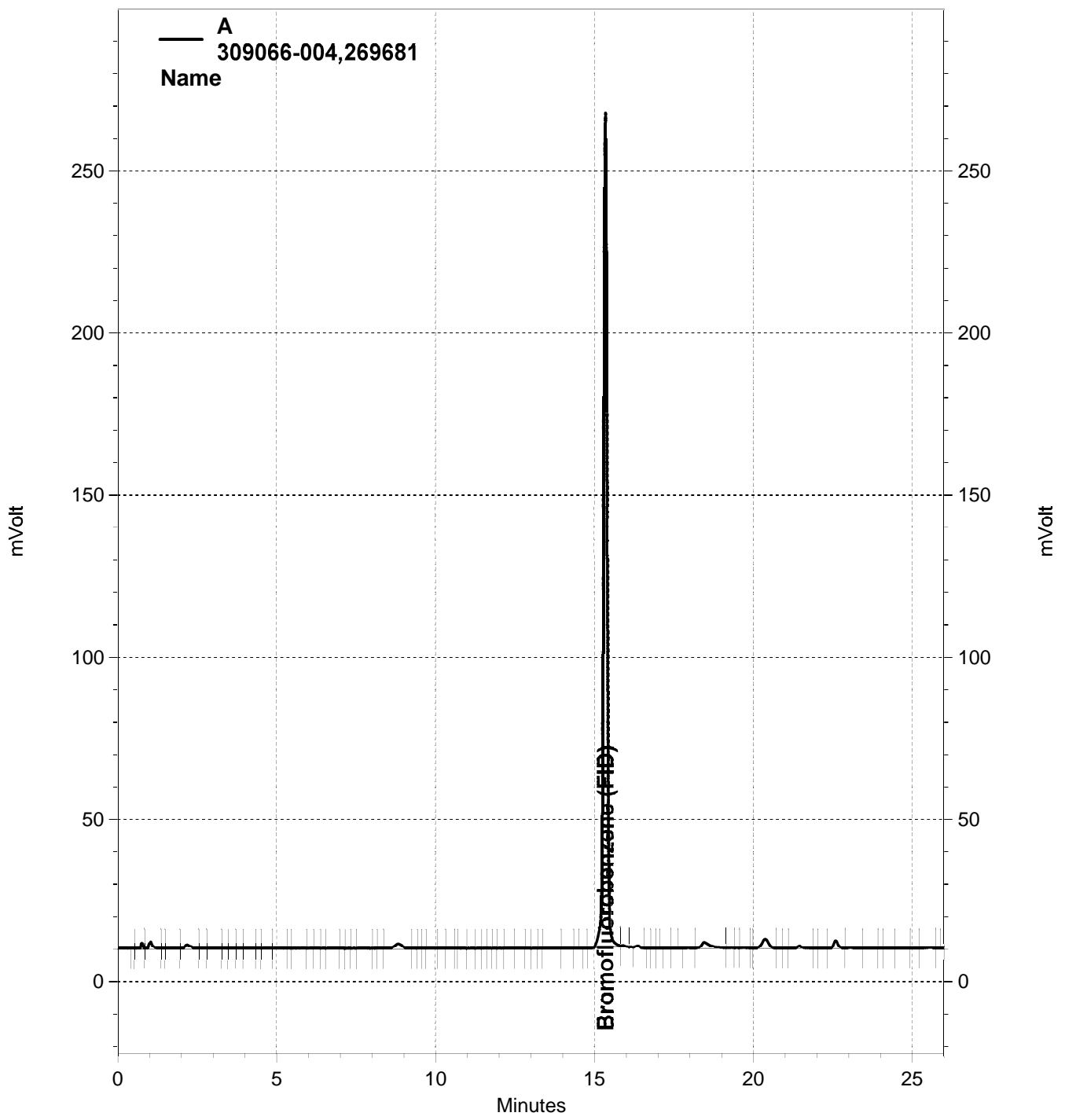
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	329076864001	134.3	ND			50	12	u
Benzene	C	329033758001	0.3017	ND	ND	25%	0.50		
Toluene	C	329033758001	0.1977	ND	ND		0.50		<c+
Ethylbenzene	C	329033758001	0.1869	ND	ND		0.50		<c+
m,p-Xylenes	C	329033758001	0.3172	ND	ND	49%	0.50		<c+
o-Xylene	C	329033758001	0.3602	ND	ND		0.50		<c+ >c- b*

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	329076864001	929.7	180.0	185.9	103	80-120	u
Bromofluorobenzene (PID)	C	329033758001	700.2	180.0	140.0	78	68-126	<c- >c-

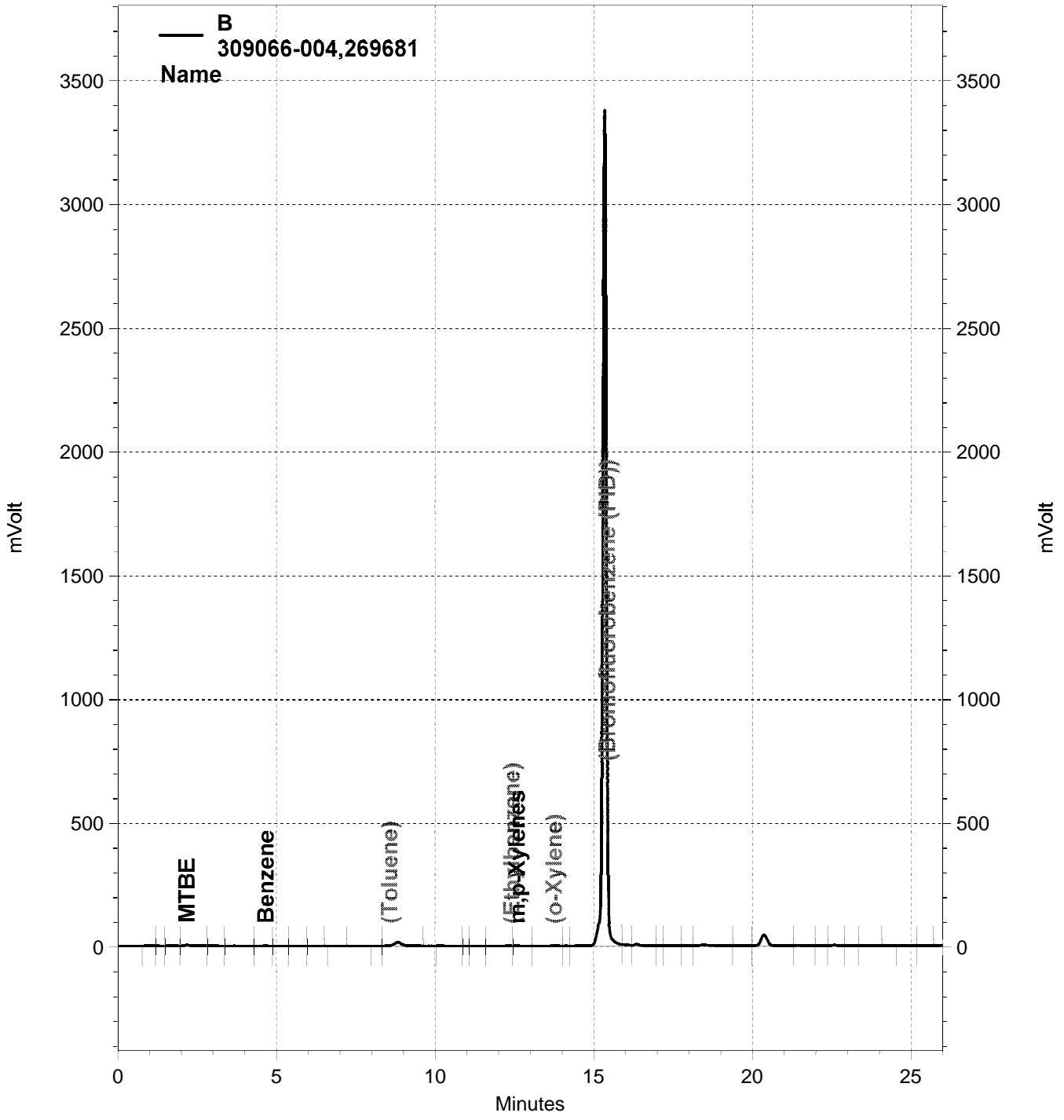
ALE 04/19/19 : RR @ 1x for BTXE

Analyst: ALE Date: 04/19/19 Reviewer: EAH Date: 04/24/19

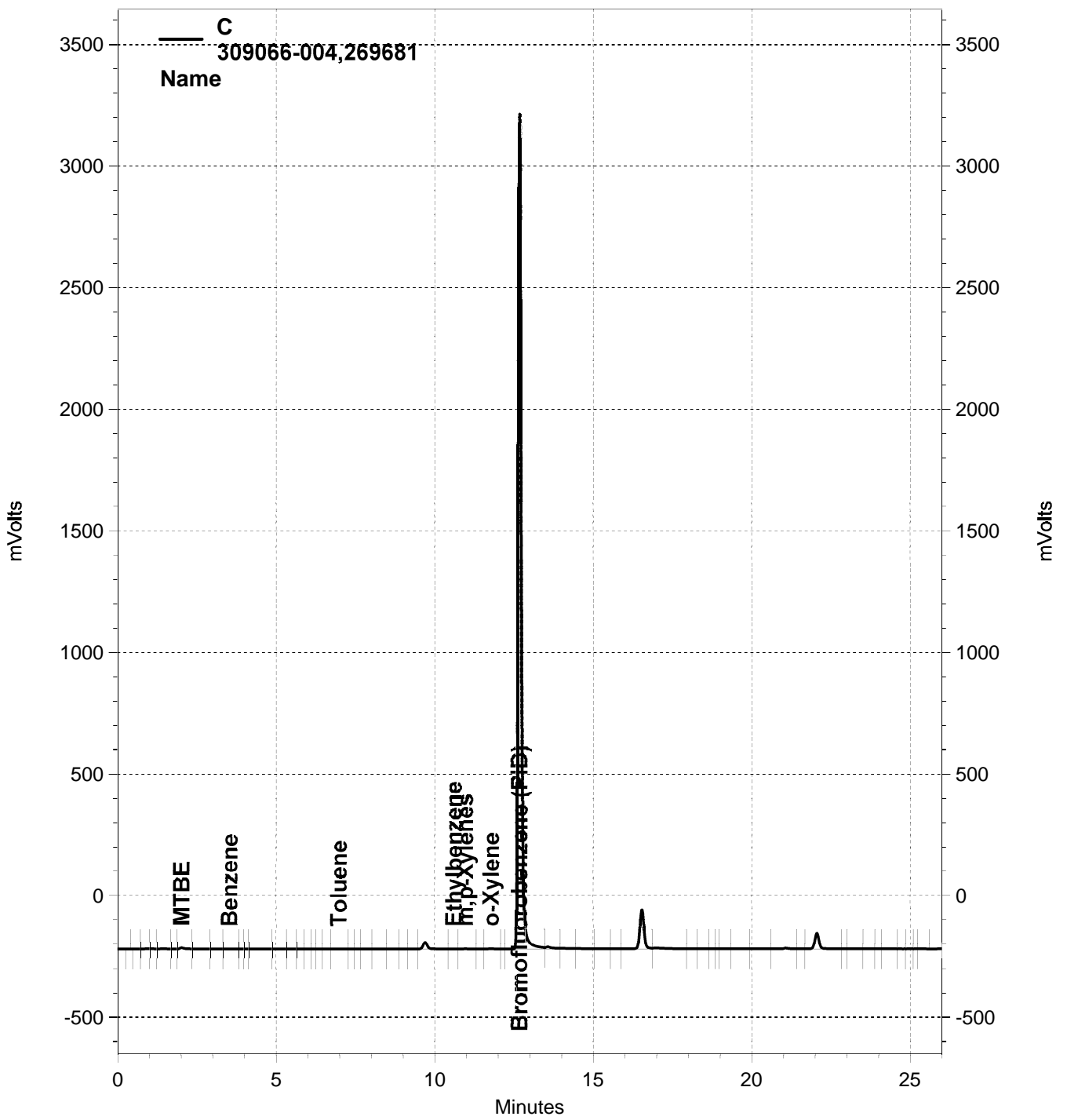
+ = high bias - = low bias < = opening > = closing b = noncompliant c = CCV u = use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-021, A



\\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-021, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-021, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
Sample Name: 309066-004,269681
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-021
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
Run Date: 4/18/2019 10:31:04 PM
Analysis Date: 4/18/2019 10:59:47 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.433	1943440	929.693
GAS:6-10			156352	72.400
GAS:6-12			310052	115.855
GAS:7-12			284814	134.339
JP4:7-12			284814	75.967
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.183	2.200	91146	5.370
Benzene	4.667	4.717	18301	0.387
Toluene		8.567		0.000 BDL
Ethylbenzene		12.417		0.000 BDL
m,p-Xylenes	12.583	12.650	22852	0.522
o-Xylene		13.750		0.000 BDL
Bromofluorobenzene (PID)		15.433		0.000 BDL

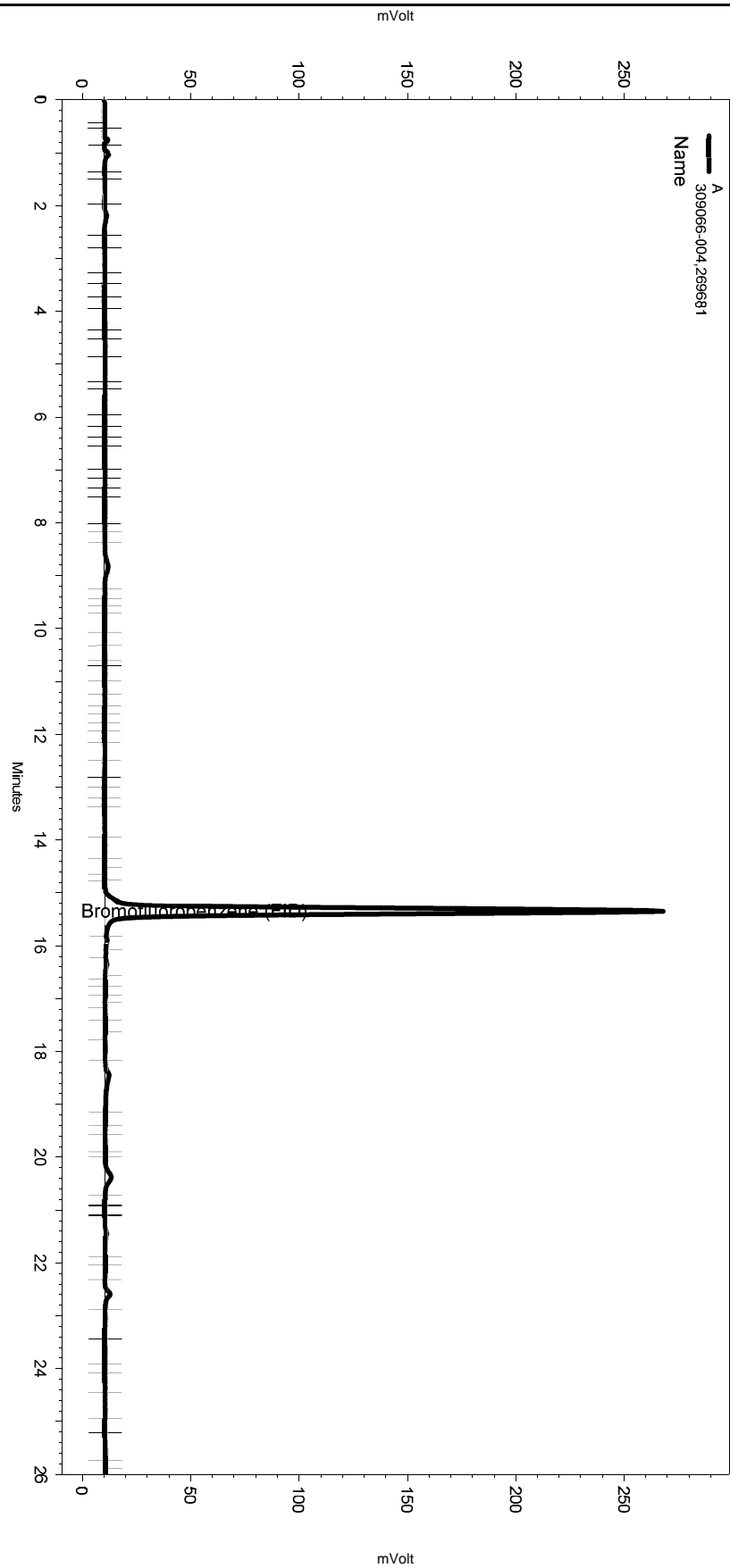
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	2.033	53835	3.749
Benzene	3.533	3.550	12066	0.302
Toluene	6.983	6.983	7395	0.198
Ethylbenzene	10.616	10.633	5731	0.187
m,p-Xylenes	10.966	10.999	12320	0.317
o-Xylene	11.783	11.849	13778	0.360
Bromofluorobenzene (PID)	12.683	12.749	23898860	700.179

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-004,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-021
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 10:31:04 PM
 Analysis Date: 4/18/2019 10:59:47 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



Channel A

---< General Method Parameters >-----

No items selected for this section

---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

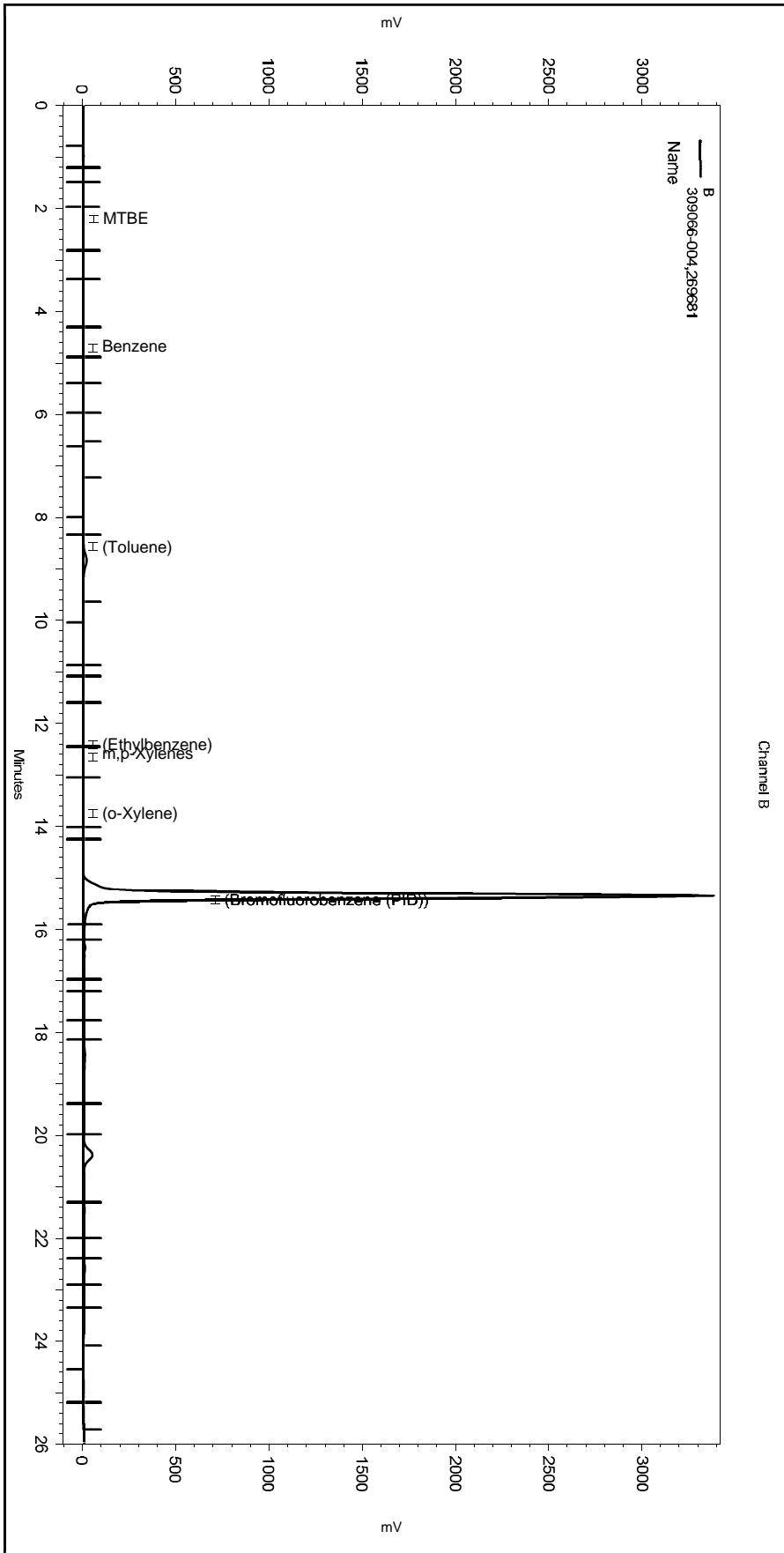
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-021_2D56.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-004,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-021
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 10:31:04 PM
 Analysis Date: 4/18/2019 10:59:47 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

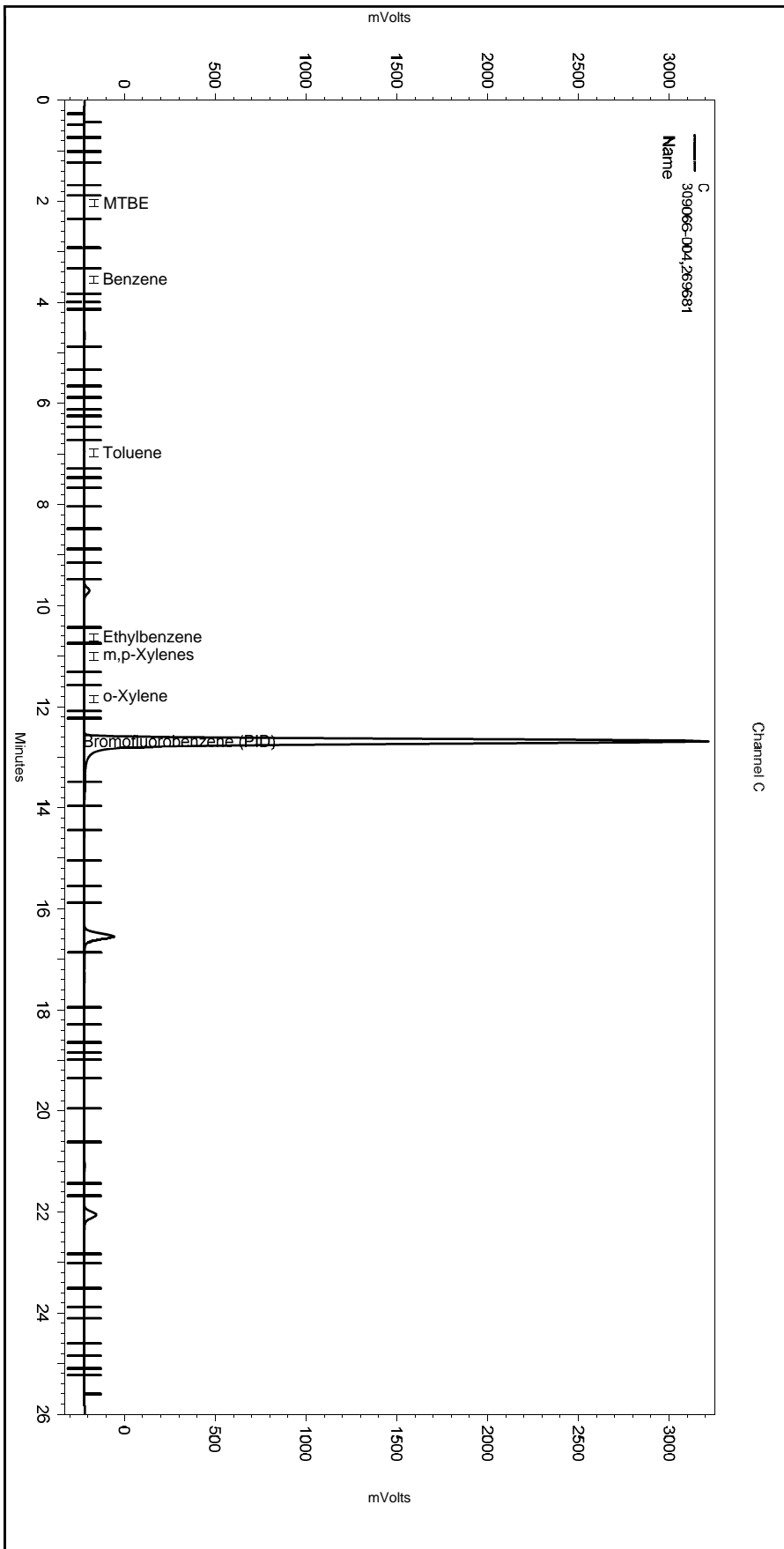
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-021_2D56.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-004,269681
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-021
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 10:31:04 PM
 Analysis Date: 4/18/2019 10:59:47 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-021_2D56.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC05 Lab ID : 309066-004 Client ID : DUP04182019-01
 Seqnum : 319157509012 Matrix : Water Acct : TRC-SF (HEC)
 File : 109_012 Batch : 269730 Time : 19-APR-2019 16:30
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

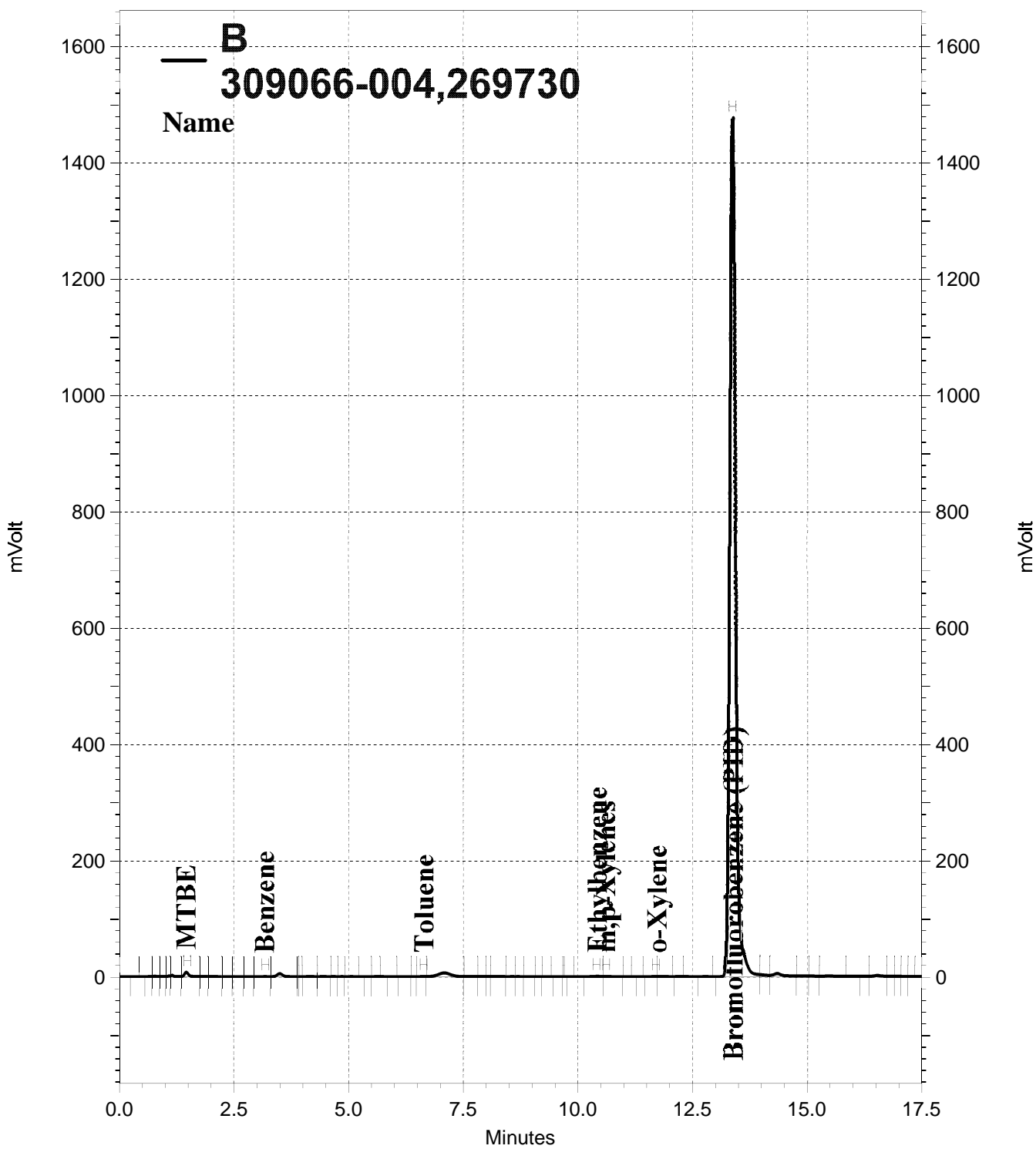
Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	319117194001	137.4	ND			50	70	B
Benzene	C	319127265001	0.04791	ND	ND	8%	0.50		u
Toluene	B	319127265001	0.05585	ND	ND	98%	0.50		u
Ethylbenzene	B	319127265001	0.2464	ND	ND	158%	0.50		u
m,p-Xylenes	B	319127265001	0.09142	ND	ND	45%	0.50		u
o-Xylene	B	319127265001	0.03783	ND	ND	163%	0.50		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	319117194001	672.0	180.0	134.4	75*	80-120	<c- >c-
Bromofluorobenzene (PID)	B	319127265001	687.5	180.0	137.5	76	68-126	<c- >c- u

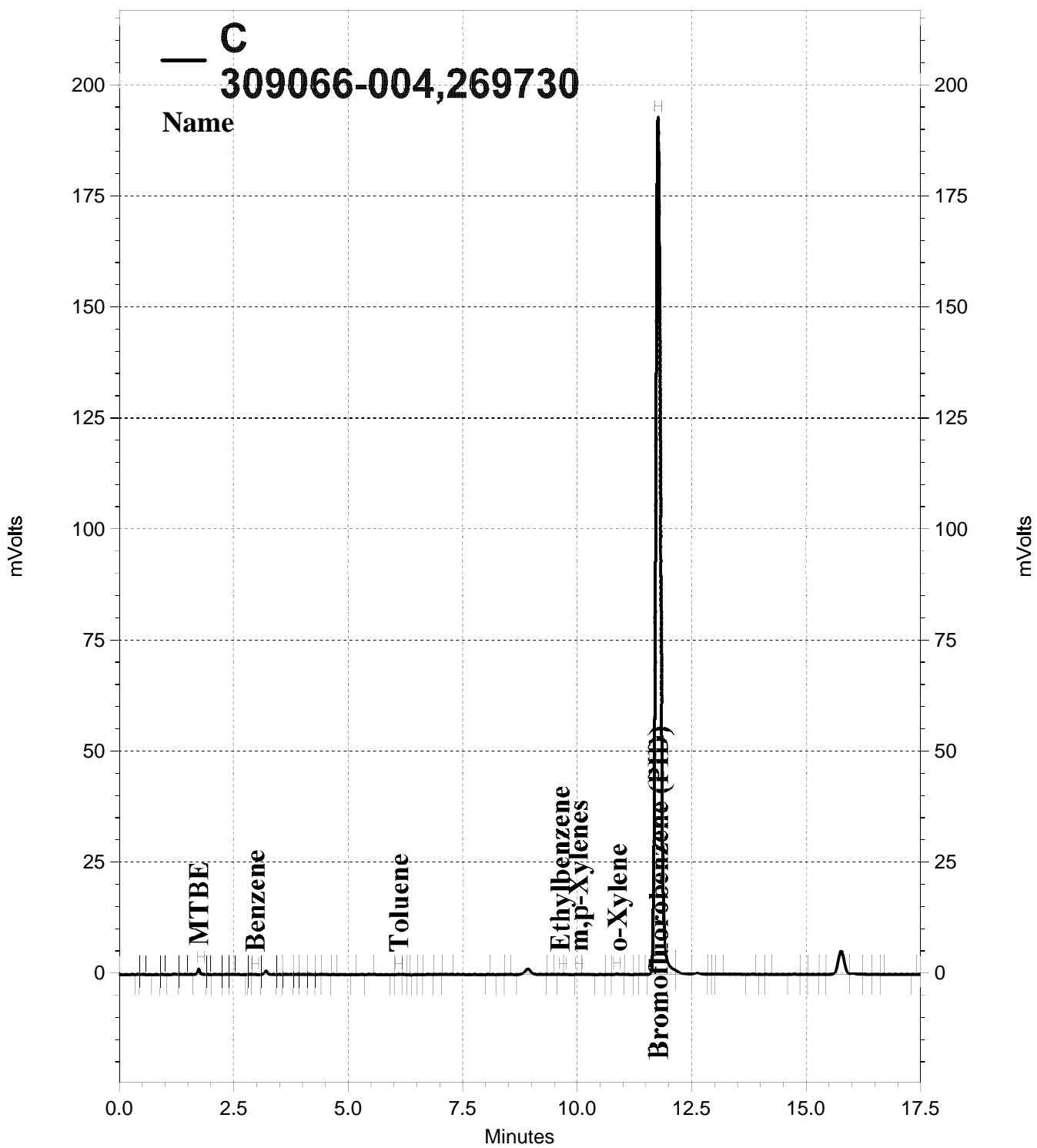
JM2 04/19/19 : Reporting for BTXE only.

Analyst: JM2 Date: 04/19/19 Reviewer: EAH Date: 04/22/19

--low bias <=opening >=closing B=method blank contamination c=CCV u=use



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-012, B



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-012, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
Sample Name: 309066-004,269730
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-012
Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
Run Date: 4/19/2019 4:30:40 PM
Analysis Date: 4/19/2019 4:59:24 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: B 1.0

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.383	13.367	1204744	671.980
GAS:6-10			226868	100.238
GAS:6-12			296529	113.512
GAS:7-12			277316	137.372
JP4:7-12			277316	62.348
AVGAS:6-10			226868	56.765
AVGAS:7-12			277316	113.105

BTXE Instrument Results
Channel B: RTX-502.2 PID

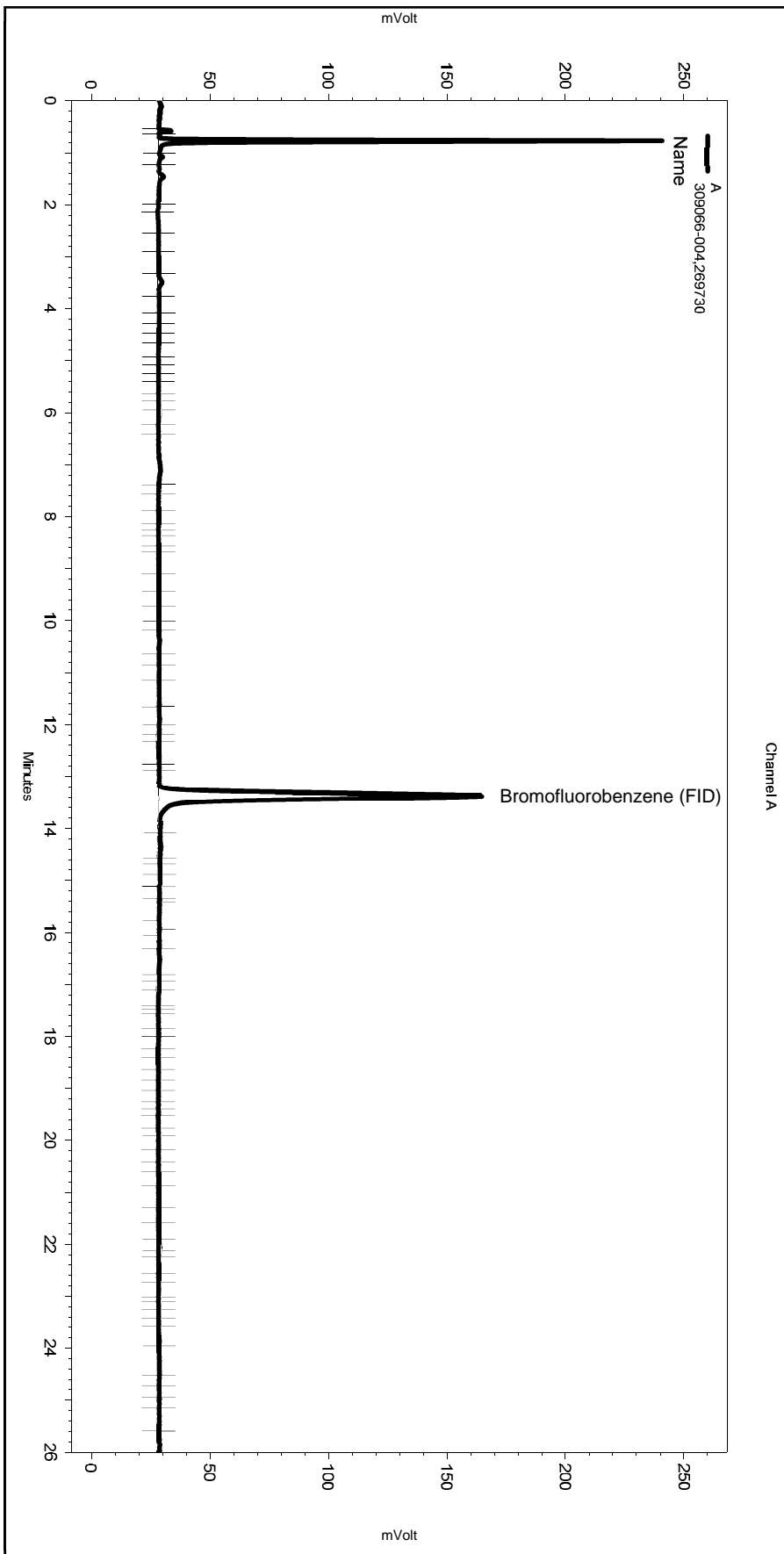
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.450	1.483	46587	5.016
Benzene	3.167	3.183	1379	0.044
Toluene	6.633	6.633	1599	0.056
Ethylbenzene	10.417	10.400	6073	0.246
m,p-Xylenes	10.600	10.617	2678	0.091
o-Xylene	11.717	11.700	940	0.038
Bromofluorobenzene (PID)	13.383	13.367	12874846	687.511

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.733	1.783	5485	5.579
Benzene	2.966	2.966	156	0.048
Toluene	6.100	6.100	482	0.163
Ethylbenzene	9.616	9.683	71	0.029
m,p-Xylenes	10.016	10.033	168	0.058
o-Xylene	10.866	10.866	947	0.376
Bromofluorobenzene (PID)	11.766	11.766	1420634	761.626

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: 309066-004,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-012
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 4:30:40 PM
 Analysis Date: 4/19/2019 4:59:24 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

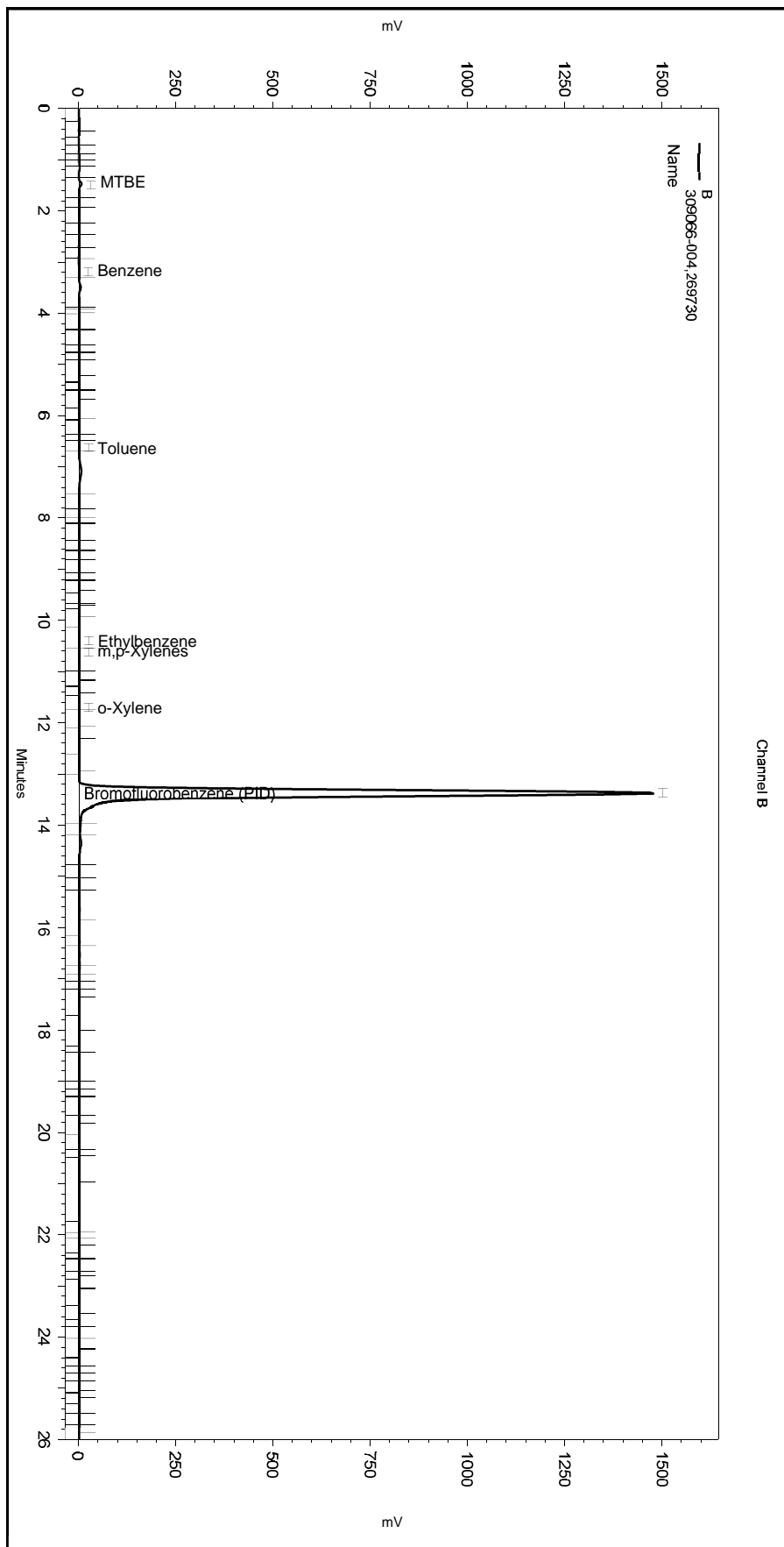
Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-012_C9B4.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: 309066-004,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-012
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 4:30:40 PM
 Analysis Date: 4/19/2019 4:59:24 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 --< General Method Parameters >-----

No items selected for this section

 --< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

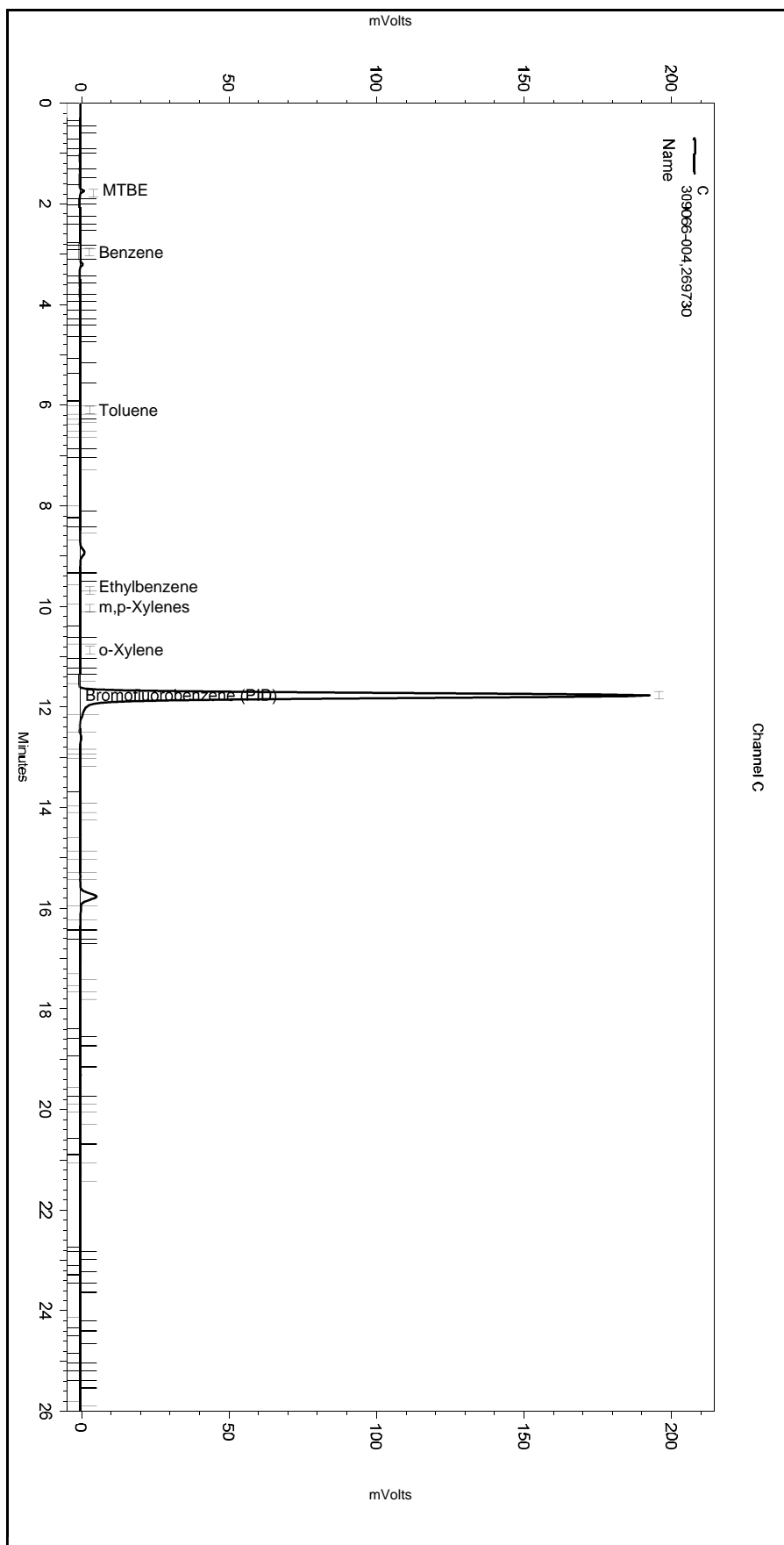
Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048109-012_C9B4.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: 309066-004,269730
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-012
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 4:30:40 PM
 Analysis Date: 4/19/2019 4:59:24 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: B 1.0



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\109-012_C9B4.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC07 Lab ID : 309066-005 Client ID : TB04182019-01
 Seqnum : 329156075017 Matrix : Water Acct : TRC-SF (HEC)
 File : 108_017 Batch : 269681 Time : 18-APR-2019 19:57
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	329076864001	172.5	ND			50	12	u
Benzene	B	329033758001	0.6019	ND	ND	75%	0.50		>c- b*
Toluene	C	329033758001	2.938	0.59	0.35	50%	0.50		<c+ C b*
Ethylbenzene	B	329033758001	1.861	ND	ND	106%	0.50		<c+
m,p-Xylenes	B	329033758001	3.140	0.63	0.47	28%	0.50		<c+ >c- b*
o-Xylene	B	329033758001	1.690	ND	0.24	32%	0.50		<c+

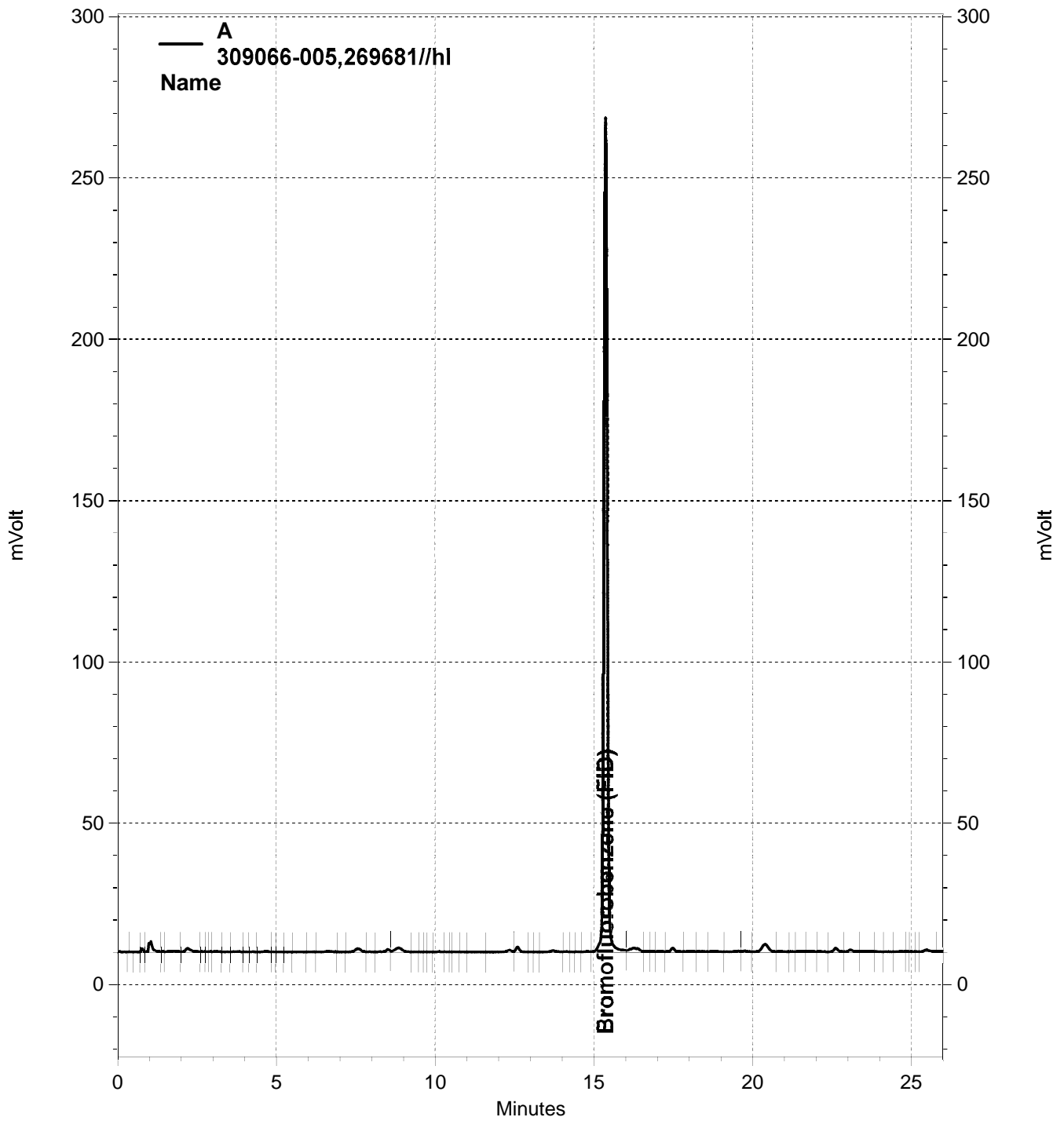
Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	329076864001	921.4	180.0	184.3	102	80-120	u
Bromofluorobenzene (PID)	C	329033758001	703.1	180.0	140.6	78	68-126	<c- >c-

04/18/19 : Was analyzed with 1 mL or less of headspace in the VOA vial.

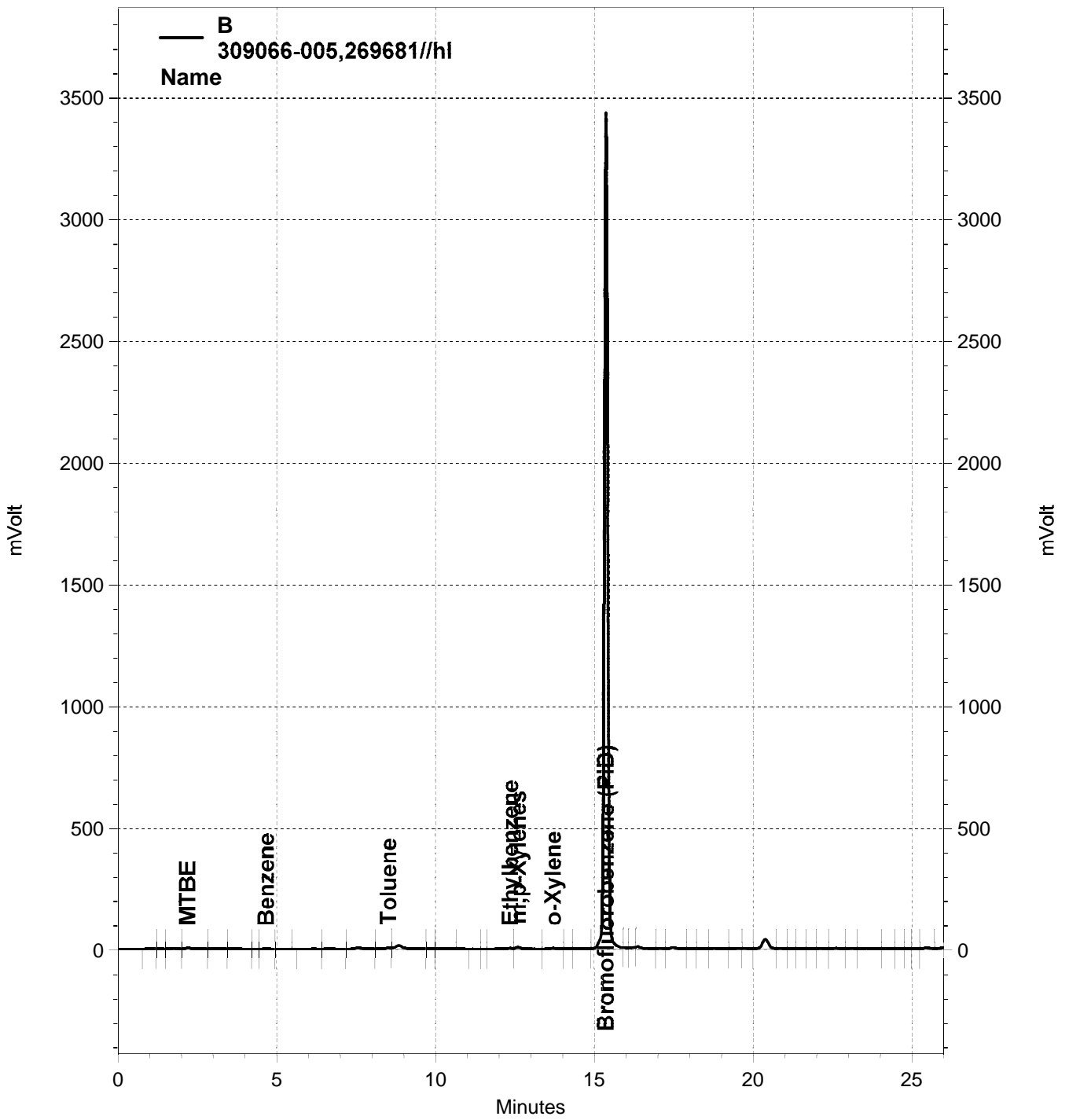
ALE 04/19/19 : RR @ 1x for BTXE

Analyst: ALE Date: 04/19/19 Reviewer: EAH Date: 04/24/19

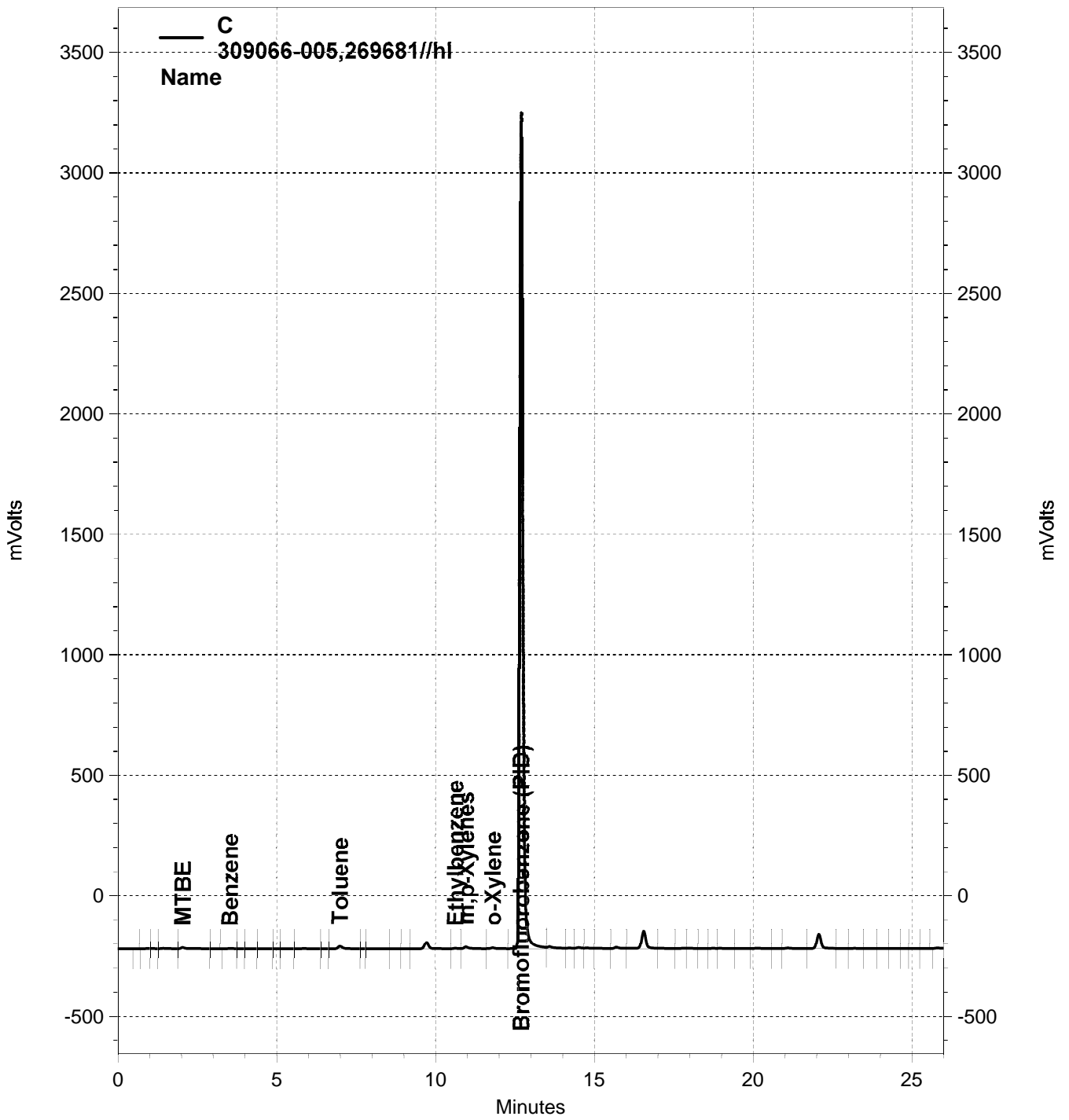
+ = high bias - = low bias < = opening > = closing C = RPD between columns exceeds 40% b = noncompliant c = CCV u = use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-017, A



\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-017, B



\\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-017, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
Sample Name: 309066-005,269681//hl
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-017
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
Run Date: 4/18/2019 7:57:17 PM
Analysis Date: 4/18/2019 8:26:01 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.433	1926024	921.362
GAS:6-10			226834	105.037
GAS:6-12			387707	144.872
GAS:7-12			365727	172.504
JP4:7-12			365727	97.548
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.200	2.200	104675	6.167
Benzene	4.667	4.717	28458	0.602
Toluene	8.517	8.567	76854	1.766
Ethylbenzene	12.350	12.417	71975	1.861
m,p-Xylenes	12.600	12.650	137480	3.140
o-Xylene	13.700	13.750	66652	1.690
Bromofluorobenzene (PID)	15.367	15.433	25388541	662.810

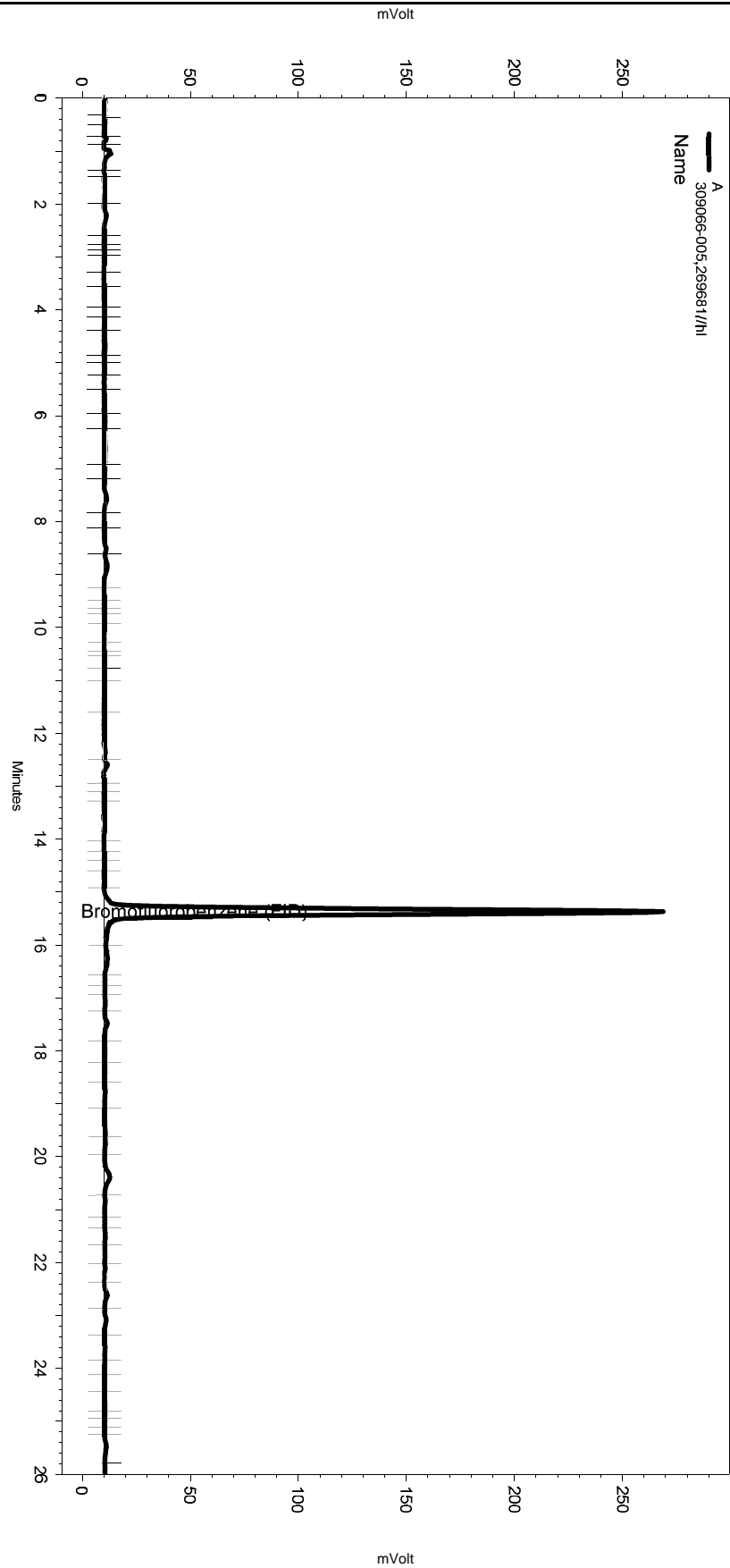
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	2.033	63435	4.418
Benzene	3.533	3.550	10884	0.272
Toluene	7.000	6.983	109885	2.938
Ethylbenzene	10.633	10.633	17627	0.575
m,p-Xylenes	10.966	10.999	91574	2.358
o-Xylene	11.816	11.849	46837	1.224
Bromofluorobenzene (PID)	12.699	12.749	24000075	703.144

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-005,269681//hl
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-017
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 7:57:17 PM
 Analysis Date: 4/18/2019 8:26:01 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



Channel A

---< General Method Parameters >-----

No items selected for this section

---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

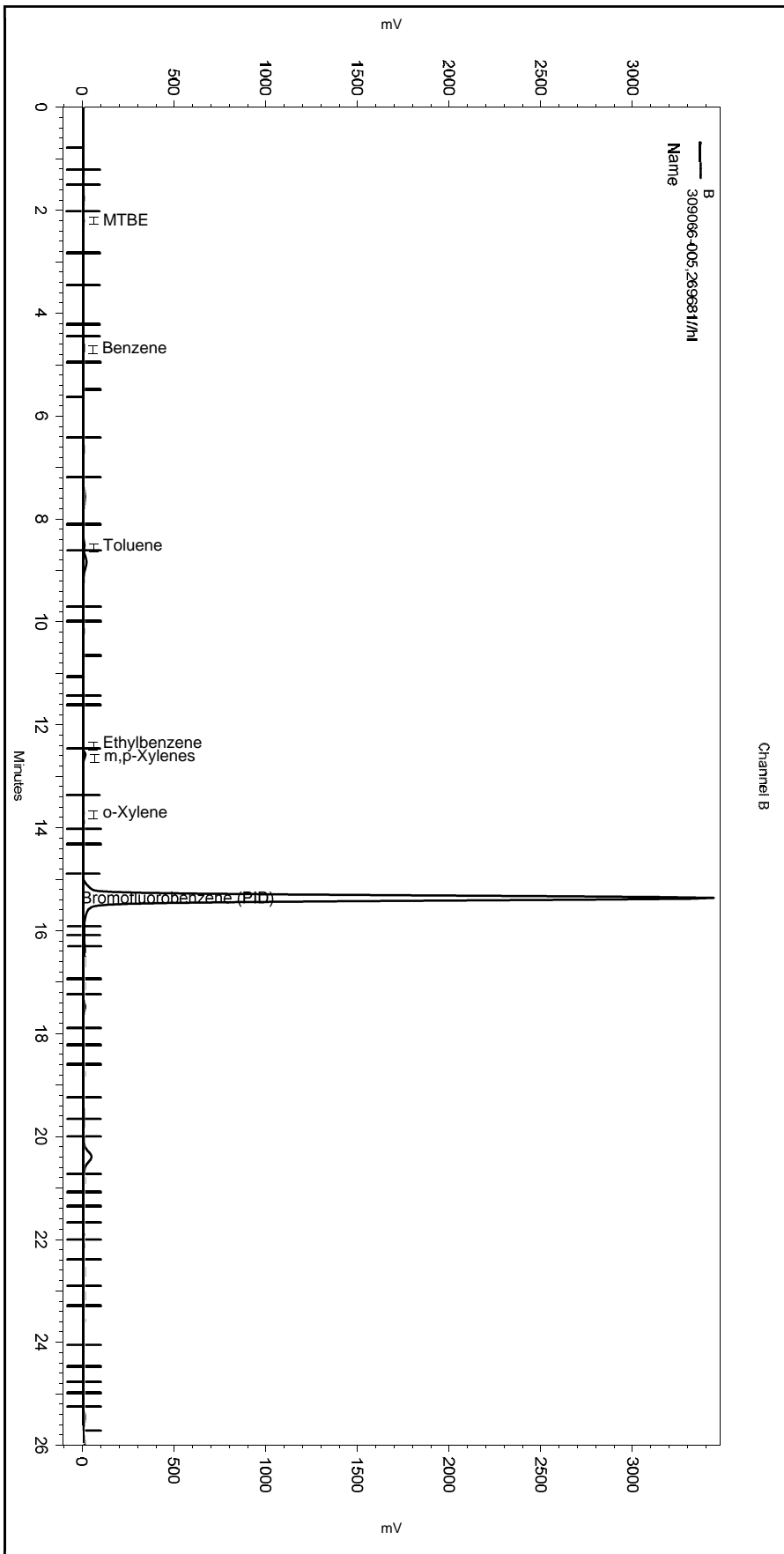
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-017_2D52.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-005,269681//hl
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-017
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE053B.MET

Software Version 3.1.7
 Run Date: 4/18/2019 7:57:17 PM
 Analysis Date: 4/18/2019 8:26:01 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

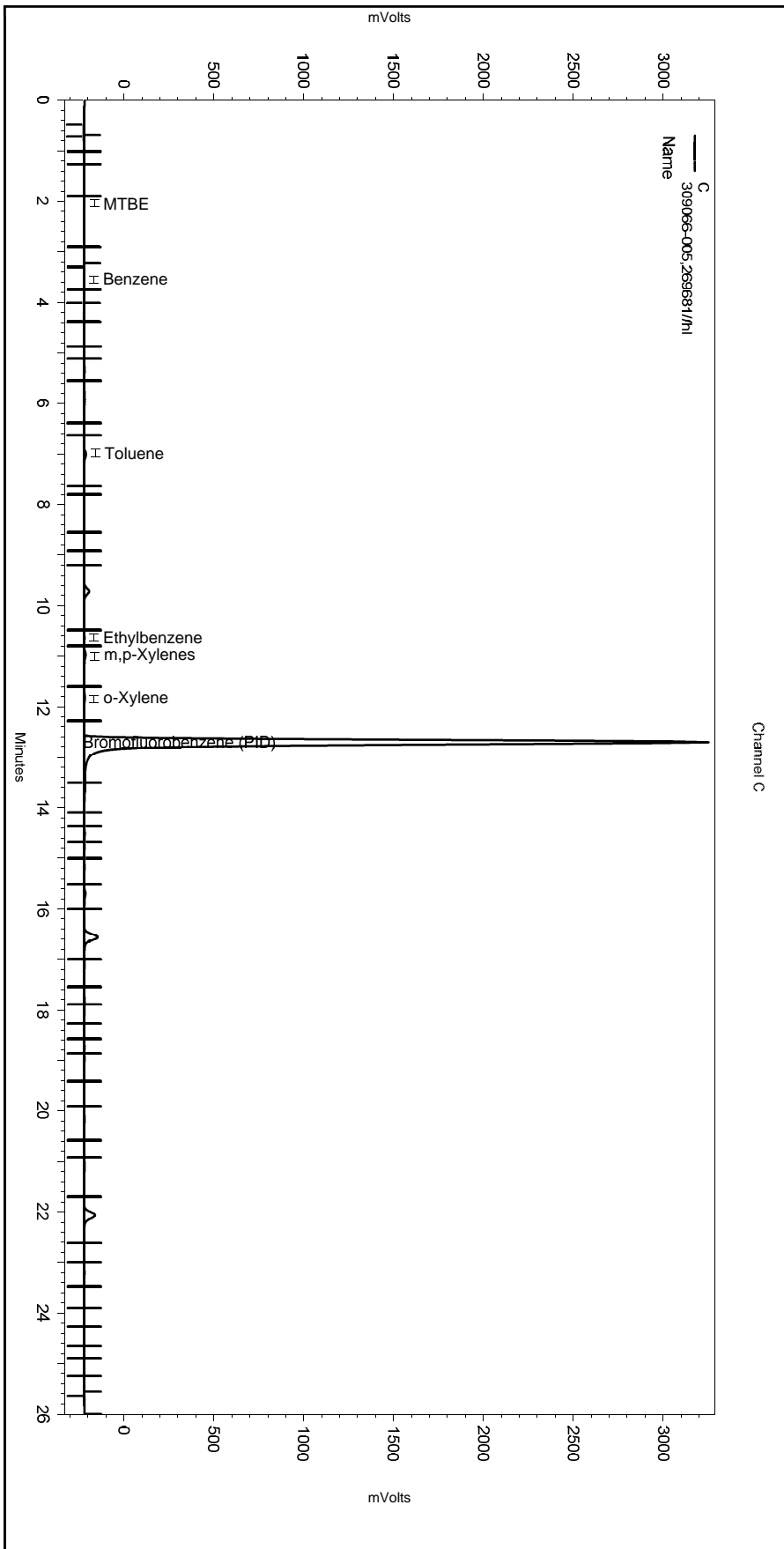
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-017_2D52.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: 309066-005,269681//hl
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-017
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 7:57:17 PM
 Analysis Date: 4/18/2019 8:26:01 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-017_2D52.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC05 Lab ID : 309066-005 Client ID : TB04182019-01
 Seqnum : 319157509008 Matrix : Water Acct : TRC-SF (HEC)
 File : 109_008 Batch : 269730 Time : 19-APR-2019 14:00
 IDF : 1.0 Raw Units : ng Units : ug/L
 PDF : 1.0

Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Gasoline C7-C12	A	319117194001	245.0	ND			50	70	B
Benzene	C	319127265001	0.05959	ND	ND	7%	0.50		u
Toluene	C	319127265001	1.249	ND	ND	181%	0.50		u
Ethylbenzene	B	319127265001	0.2332	ND	ND	130%	0.50		u
m,p-Xylenes	B	319127265001	0.1349	ND	ND	23%	0.50		u
o-Xylene	B	319127265001	0.04665	ND	ND	151%	0.50		u

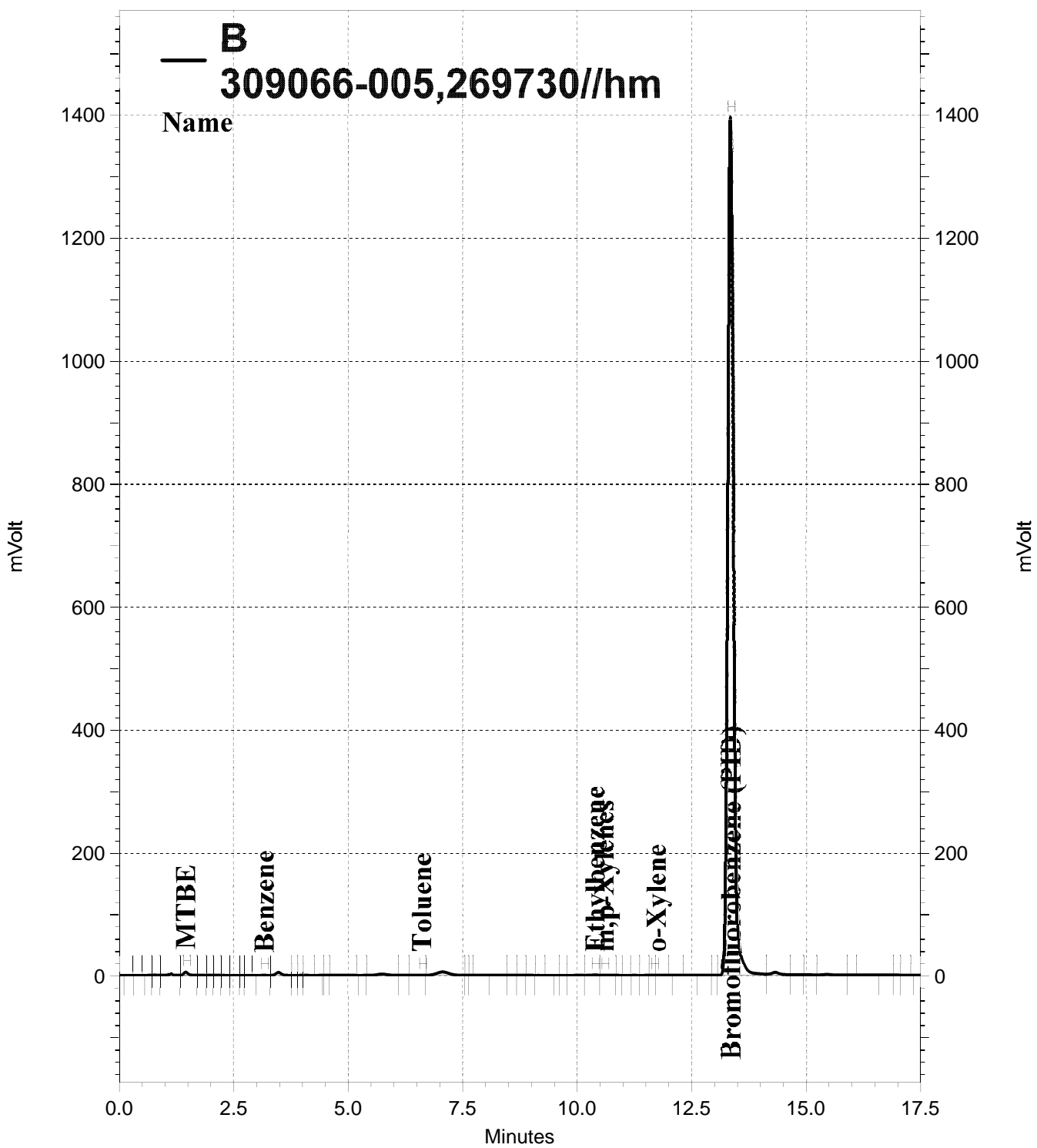
Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Bromofluorobenzene (FID)	A	319117194001	602.8	180.0	120.6	67*	80-120	<c- >c-
Bromofluorobenzene (PID)	B	319127265001	637.2	180.0	127.4	71	68-126	<c- >c- u

04/19/19 : Was analyzed with more than 1 mL of headspace in the VOA vial.

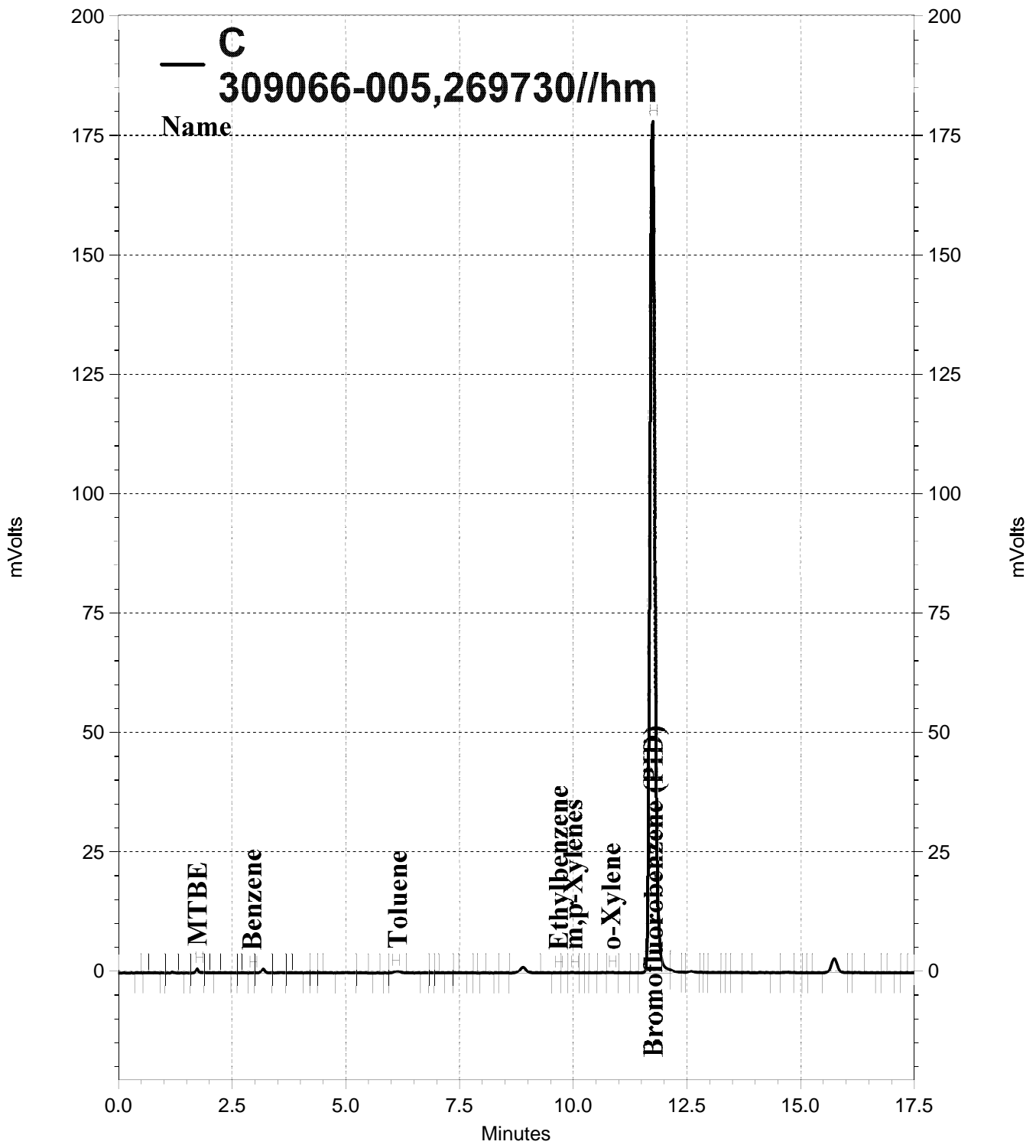
JM2 04/19/19 : Reporting for BTXE only.

Analyst: ALE Date: 04/22/19 Reviewer: EAH Date: 04/22/19

--low bias <=opening >=closing B=method blank contamination c=CCV u=use



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-008, B



C
309066-005,269730//hm
Name

\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-008, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
Sample Name: 309066-005,269730//hm
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-008
Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
Run Date: 4/19/2019 2:00:06 PM
Analysis Date: 4/19/2019 2:28:48 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: A 1.0

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.350	13.367	1080773	602.832
GAS:6-10			419951	185.549
GAS:6-12			549309	210.278
GAS:7-12			494562	244.987
JP4:7-12			494562	111.190
AVGAS:6-10			419951	105.077
AVGAS:7-12			494562	201.711

BTXE Instrument Results
Channel B: RTX-502.2 PID

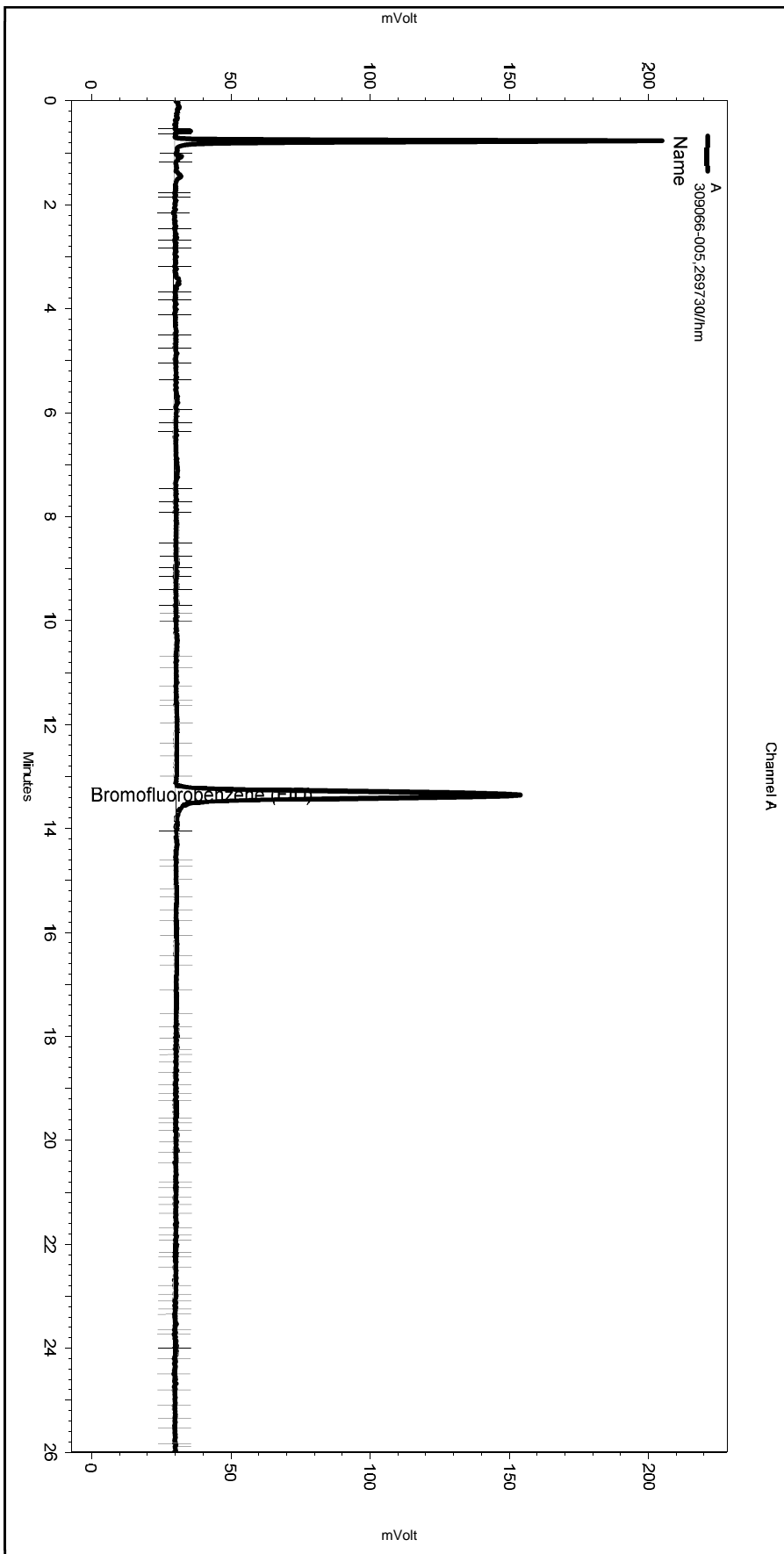
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.450	1.483	36330	3.911
Benzene	3.167	3.183	1741	0.056
Toluene	6.600	6.633	1798	0.063
Ethylbenzene	10.383	10.400	5747	0.233
m,p-Xylenes	10.583	10.617	3953	0.135
o-Xylene	11.717	11.700	1159	0.047
Bromofluorobenzene (PID)	13.350	13.367	11932874	637.210

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.733	1.783	4062	4.132
Benzene	2.933	2.966	194	0.060
Toluene	6.133	6.100	3692	1.249
Ethylbenzene	9.666	9.683	121	0.049
m,p-Xylenes	9.983	10.033	498	0.171
o-Xylene	10.816	10.866	849	0.337
Bromofluorobenzene (PID)	11.749	11.766	1345410	721.297

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: 309066-005,269730//hm
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-008
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 2:00:06 PM
 Analysis Date: 4/19/2019 2:28:48 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

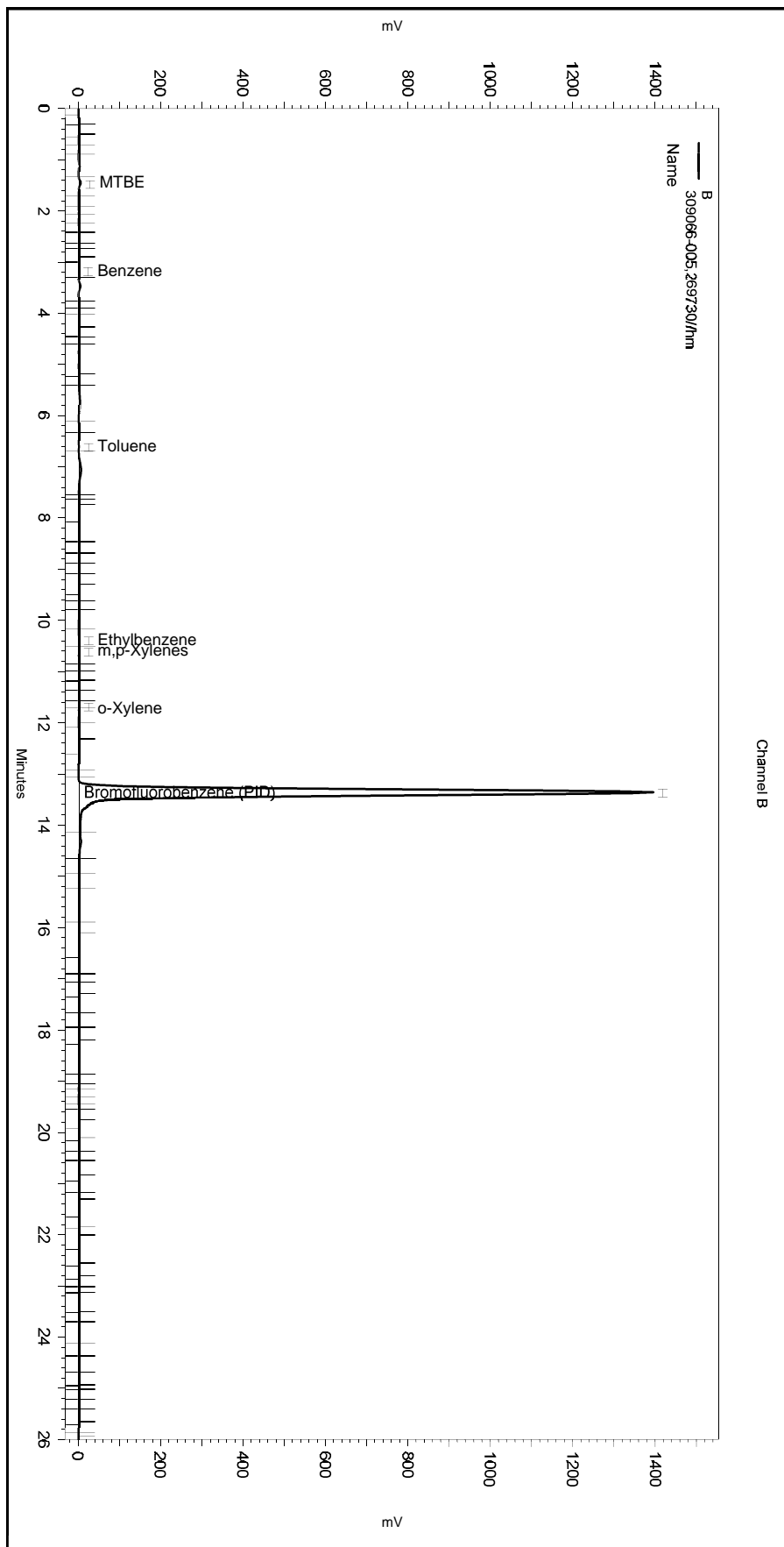
Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-008_C9B0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: 309066-005,269730//hm
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-008
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 2:00:06 PM
 Analysis Date: 4/19/2019 2:28:48 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



 --< General Method Parameters >-----

No items selected for this section

 --< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

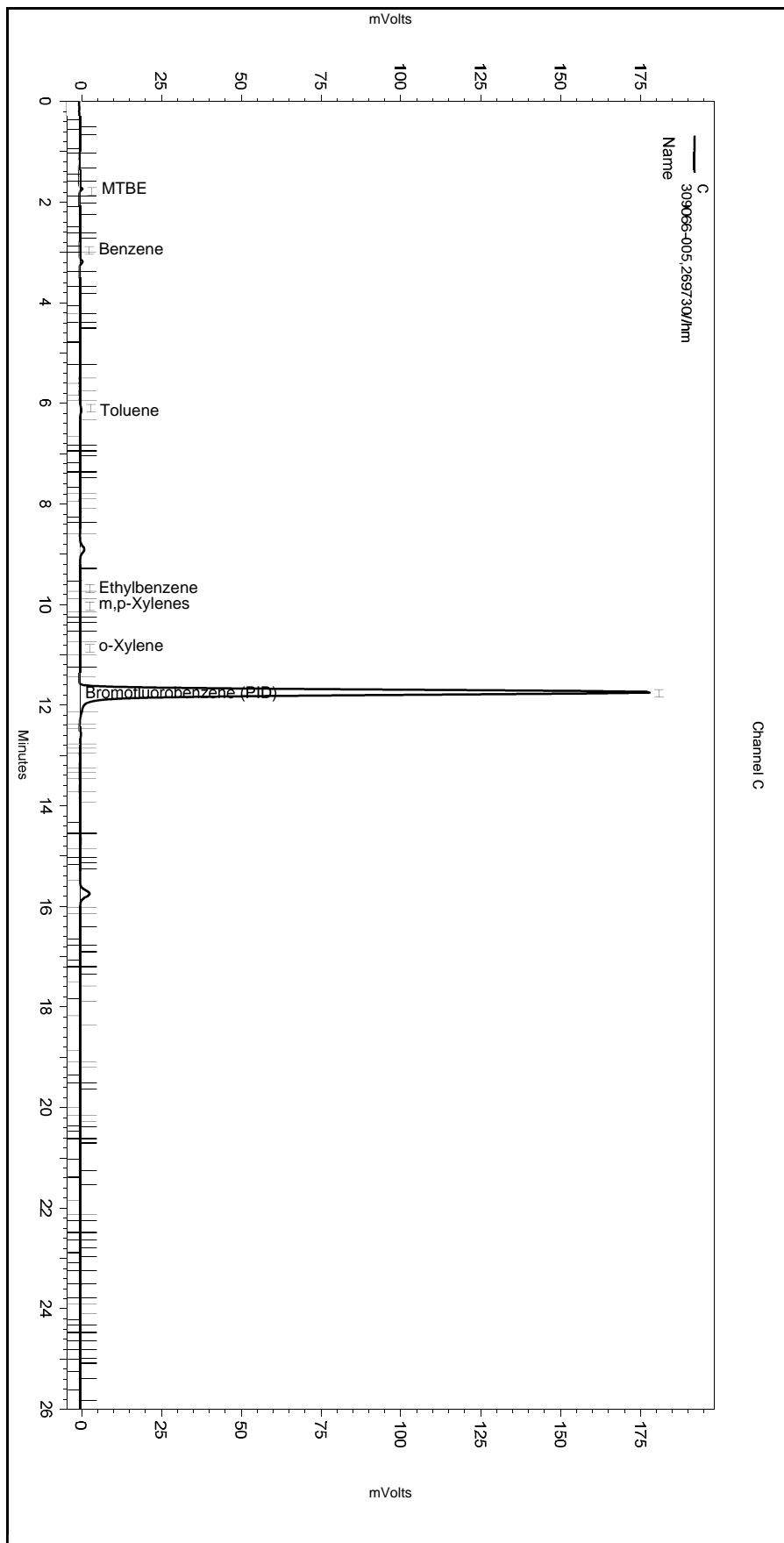
Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048109-008_C9B0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: 309066-005,269730//hm
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-008
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 2:00:06 PM
 Analysis Date: 4/19/2019 2:28:48 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >---

No items selected for this section

---< C >---

No items selected for this section

Integration Events

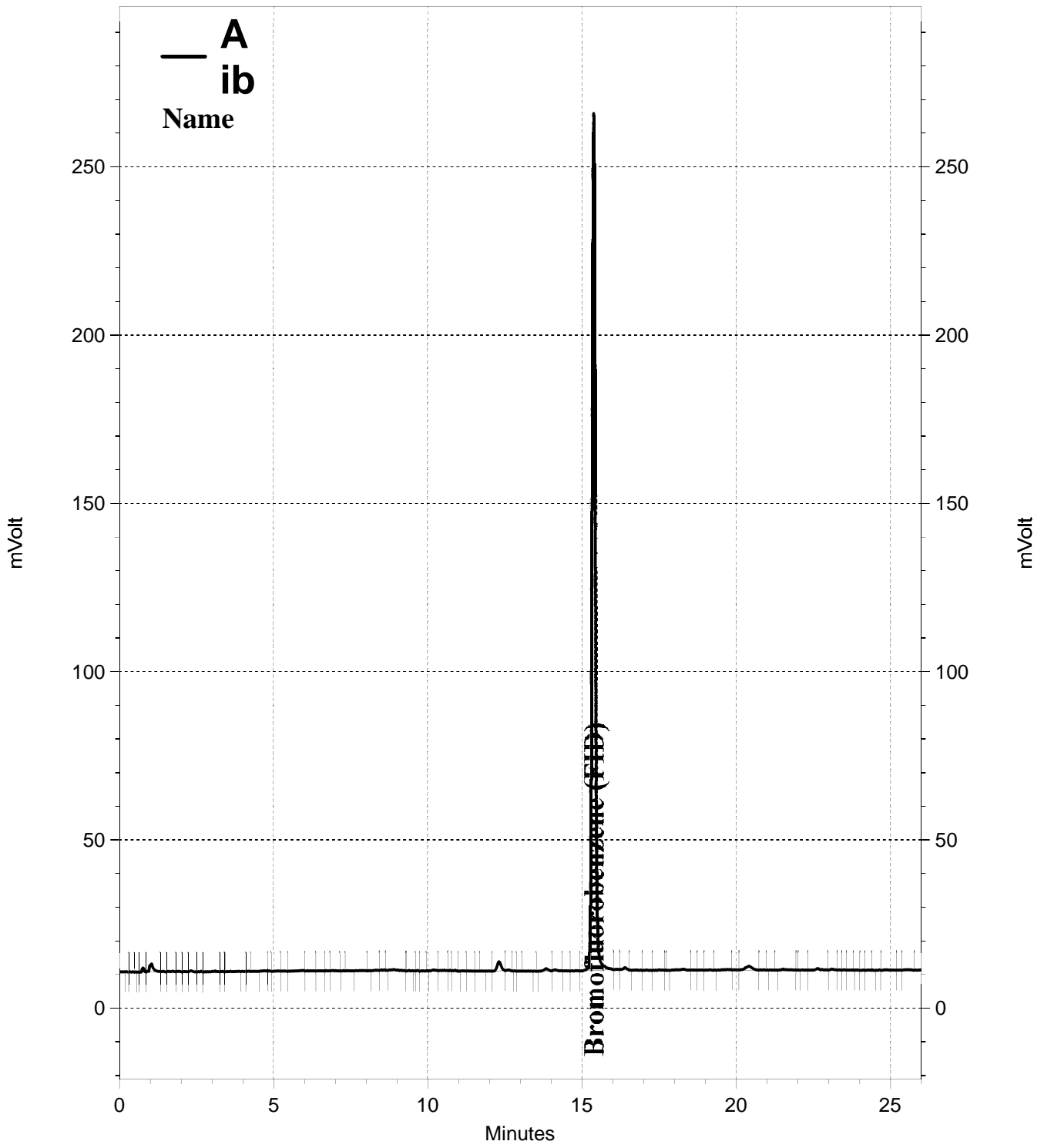
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

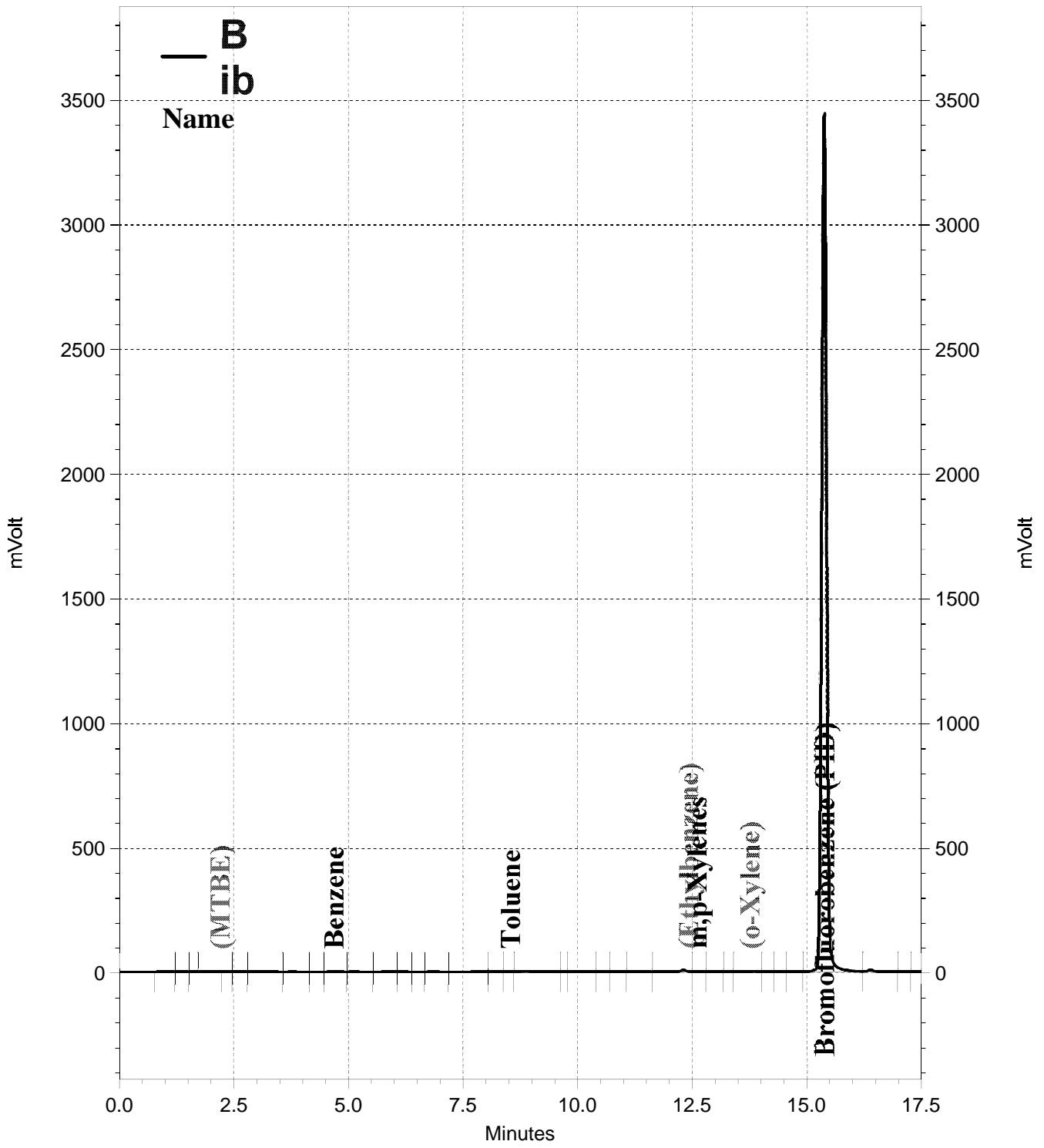
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\109-008_C9B0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

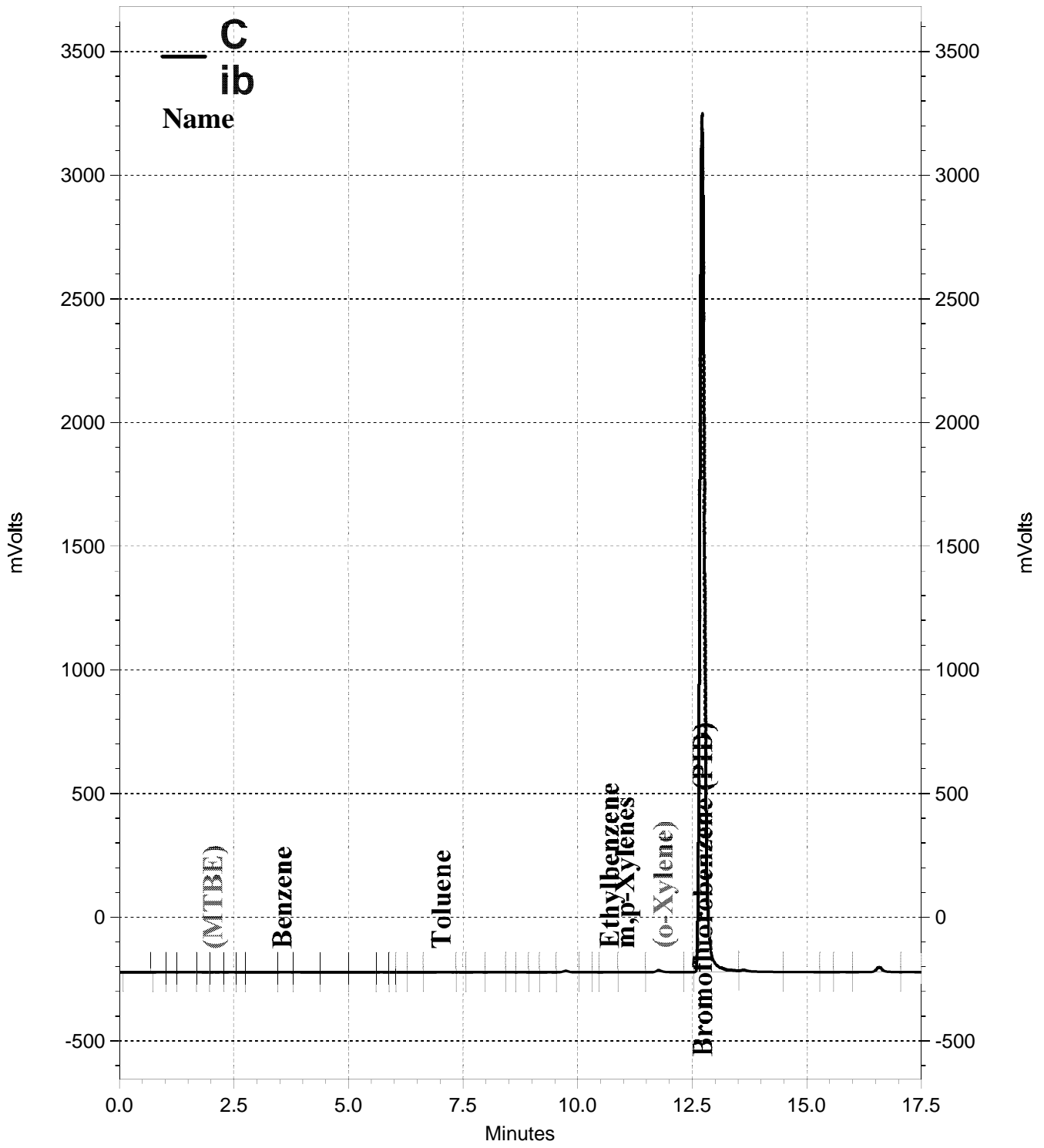
QC Raw Data



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-007, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-007, B



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-007, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq	Software Version 3.1.7
Sample Name: ib	Run Date: 4/18/2019 1:06:42 PM
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-007	Analysis Date: 4/18/2019 1:36:53 PM
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE053B.MET	Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.433	1841850	881.095
GAS:6-10			83701	38.758
GAS:6-12			140563	52.523
GAS:7-12			131707	62.123
JP4:7-12			131707	35.129
?			0	0.000

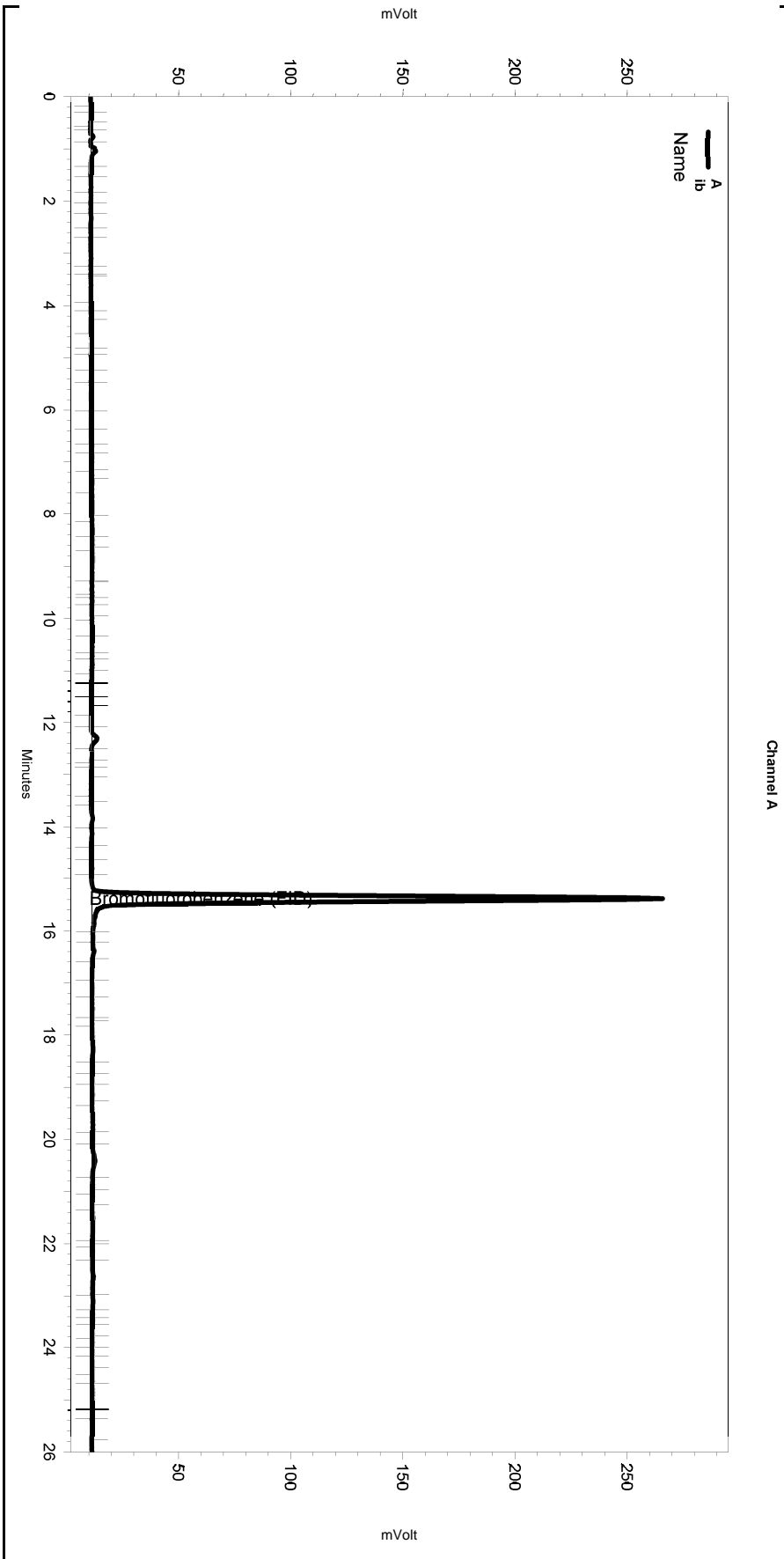
BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.200		0.000 BDL
Benzene	4.683	4.717	15938	0.337
Toluene	8.533	8.567	18031	0.414
Ethylbenzene		12.417		0.000 BDL
m,p-Xylenes	12.600	12.650	26299	0.601
o-Xylene		13.750		0.000 BDL
Bromofluorobenzene (PID)	15.383	15.433	24958626	651.587

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.033		0.000 BDL
Benzene	3.550	3.550	10034	0.251
Toluene	7.016	6.983	15172	0.406
Ethylbenzene	10.683	10.633	11509	0.375
m,p-Xylenes	11.016	10.999	18703	0.482
o-Xylene		11.849		0.000 BDL
Bromofluorobenzene (PID)	12.716	12.749	23983720	702.665



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

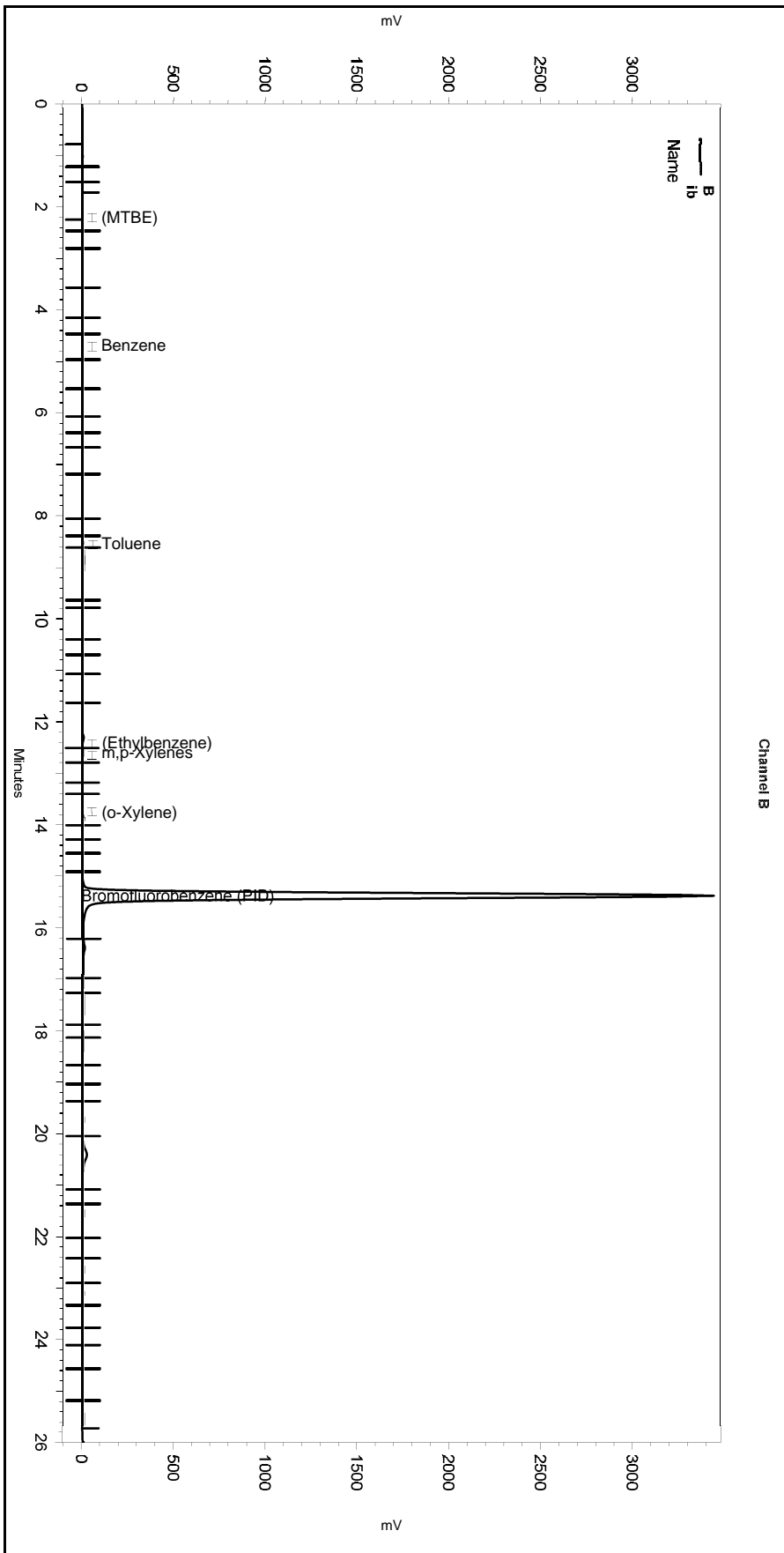
Manual Integration Fixes

Data File:
\\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Valley to Valley	0.121	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-007
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 1:06:42 PM
 Analysis Date: 4/18/2019 1:36:53 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

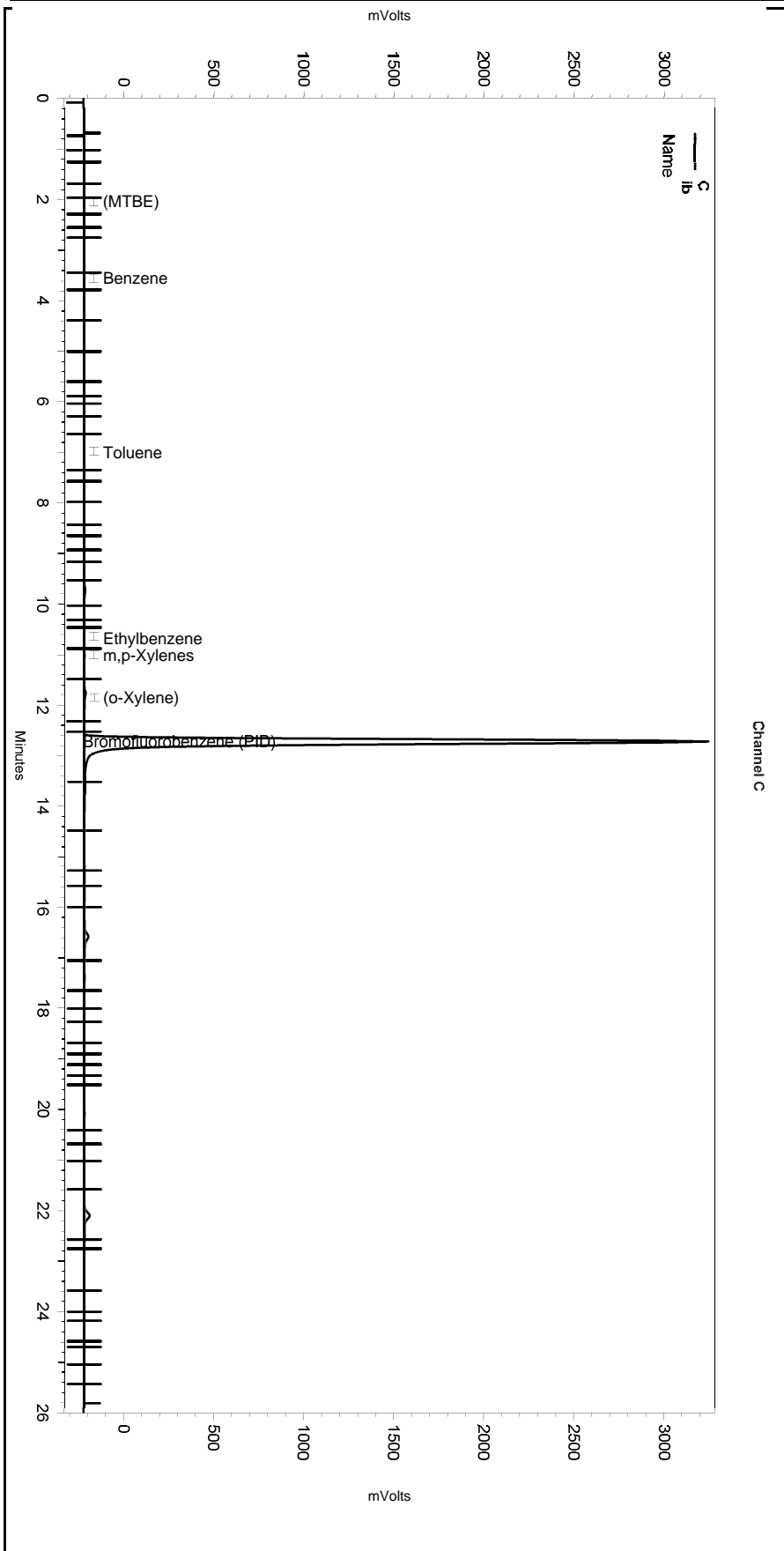
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-007
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE053B.MET

Software Version 3.1.7
 Run Date: 4/18/2019 1:06:42 PM
 Analysis Date: 4/18/2019 1:36:53 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
Sample Name: ib
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-007
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
Run Date: 4/18/2019 1:06:42 PM
Analysis Date: 4/18/2019 1:35:25 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.433	1857735	888.694
GAS:6-10			199746	92.494
GAS:6-12			337394	126.072
GAS:7-12			315328	148.732
JP4:7-12			315328	84.105
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.200		0.000 BDL
Benzene	4.683	4.717	15938	0.337
Toluene	8.533	8.567	18031	0.414
Ethylbenzene		12.417		0.000 BDL
m,p-Xylenes	12.600	12.650	26299	0.601
o-Xylene		13.750		0.000 BDL
Bromofluorobenzene (PID)	15.383	15.433	24958626	651.587

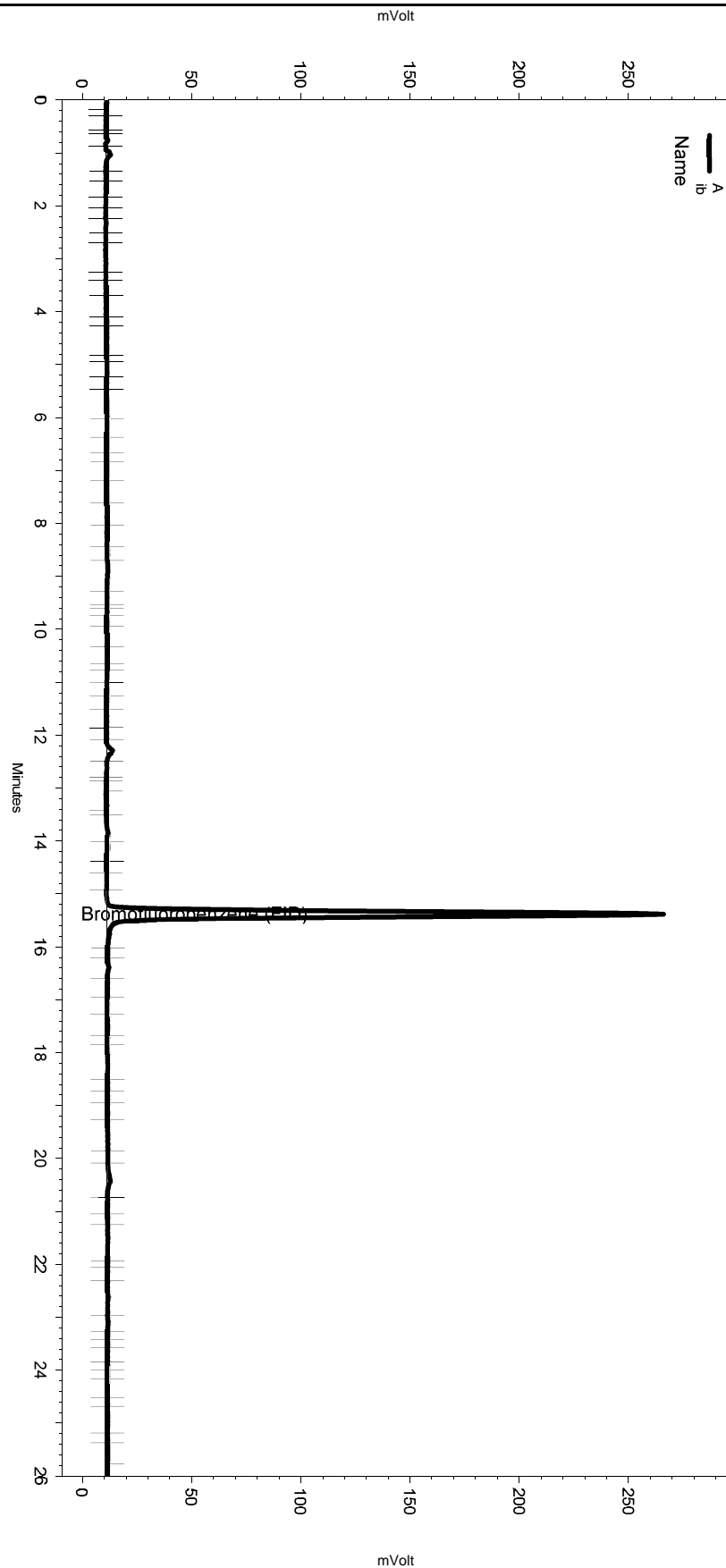
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.033		0.000 BDL
Benzene	3.550	3.550	10034	0.251
Toluene	7.016	6.983	15172	0.406
Ethylbenzene	10.683	10.633	11509	0.375
m,p-Xylenes	11.016	10.999	18703	0.482
o-Xylene		11.849		0.000 BDL
Bromofluorobenzene (PID)	12.716	12.749	23983720	702.665

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-007
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 1:06:42 PM
 Analysis Date: 4/18/2019 1:35:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

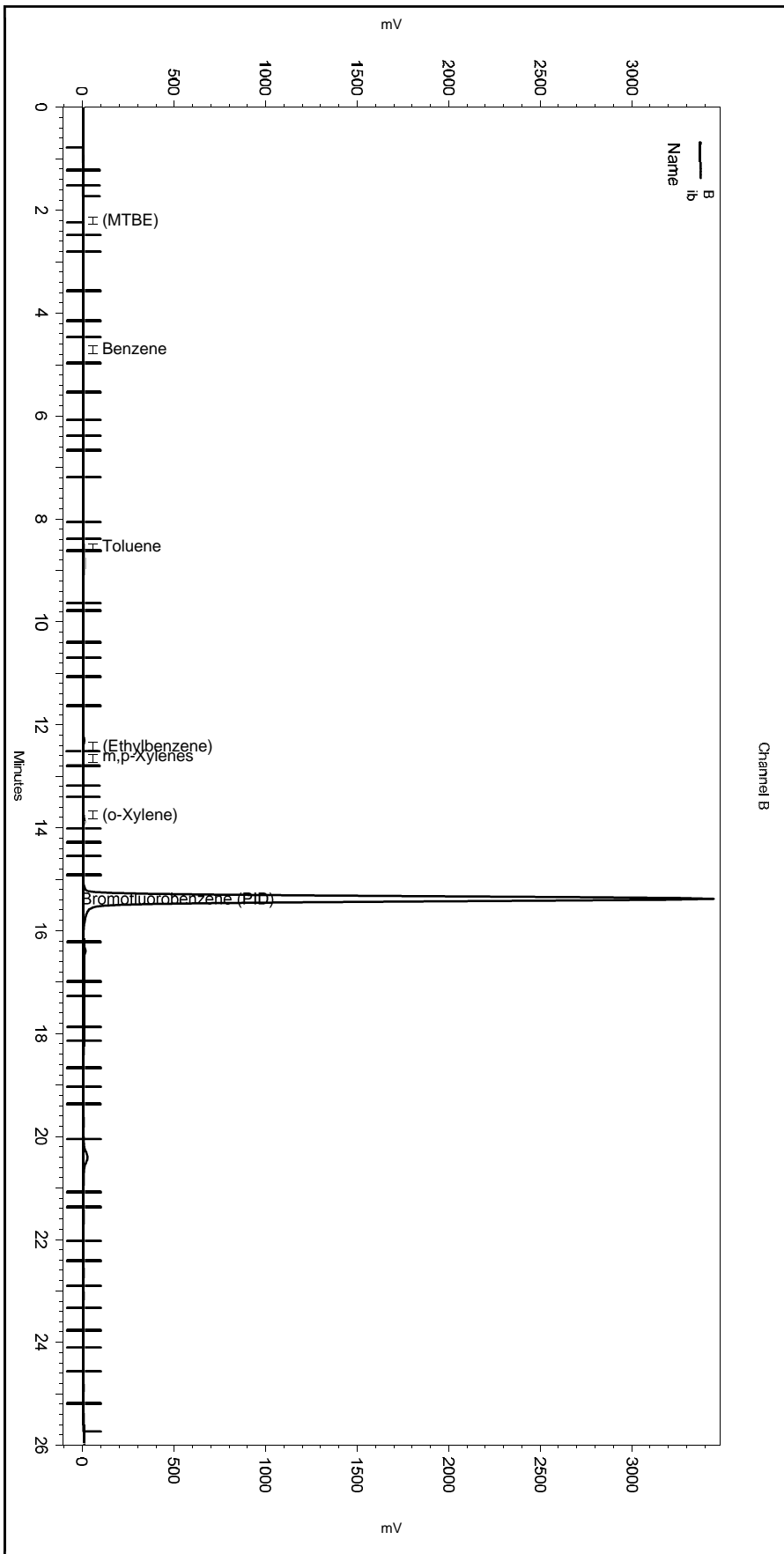
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-007_2D47.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-007
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 1:06:42 PM
 Analysis Date: 4/18/2019 1:35:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

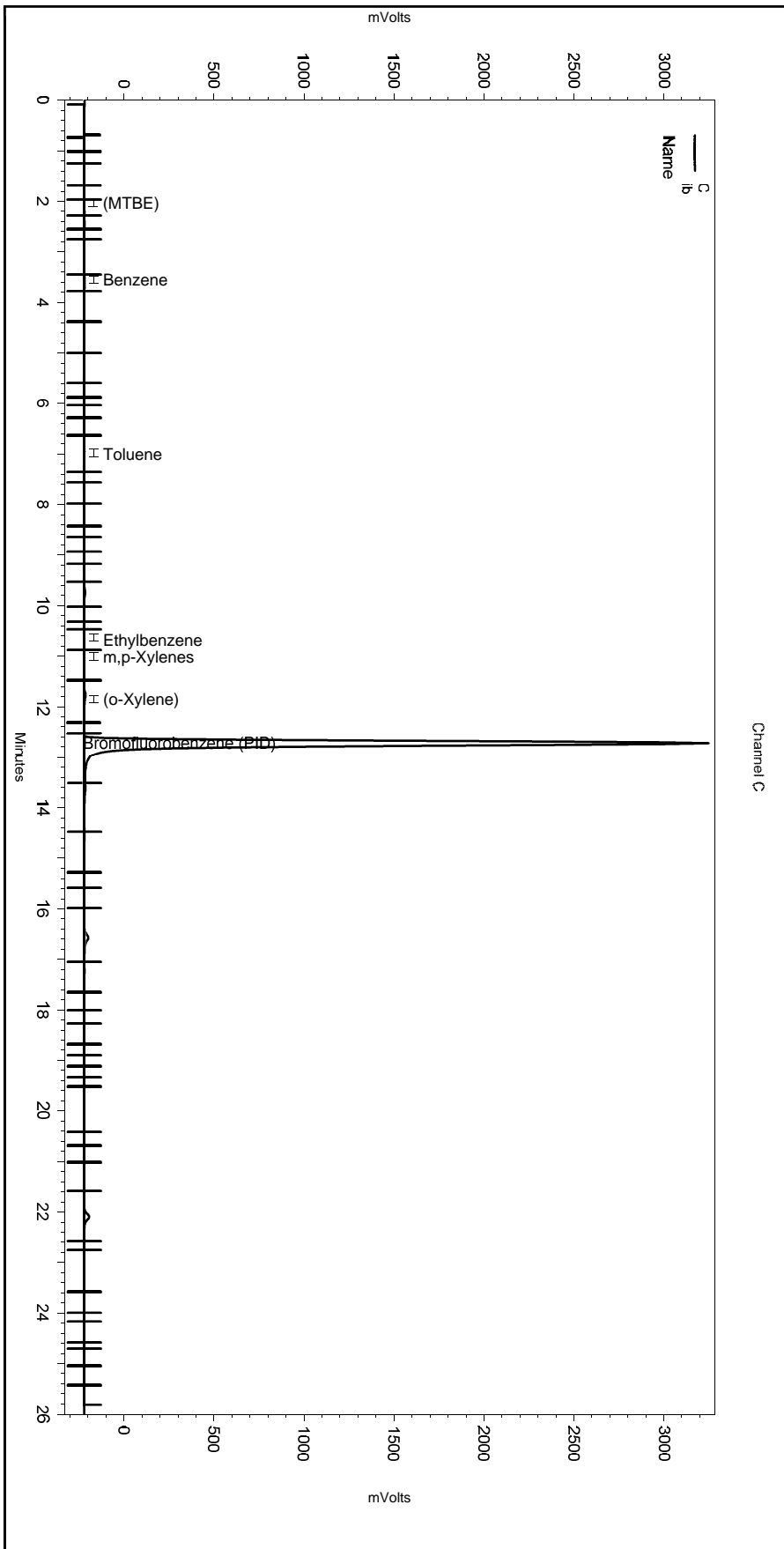
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-007_2D47.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-007
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 1:06:42 PM
 Analysis Date: 4/18/2019 1:35:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

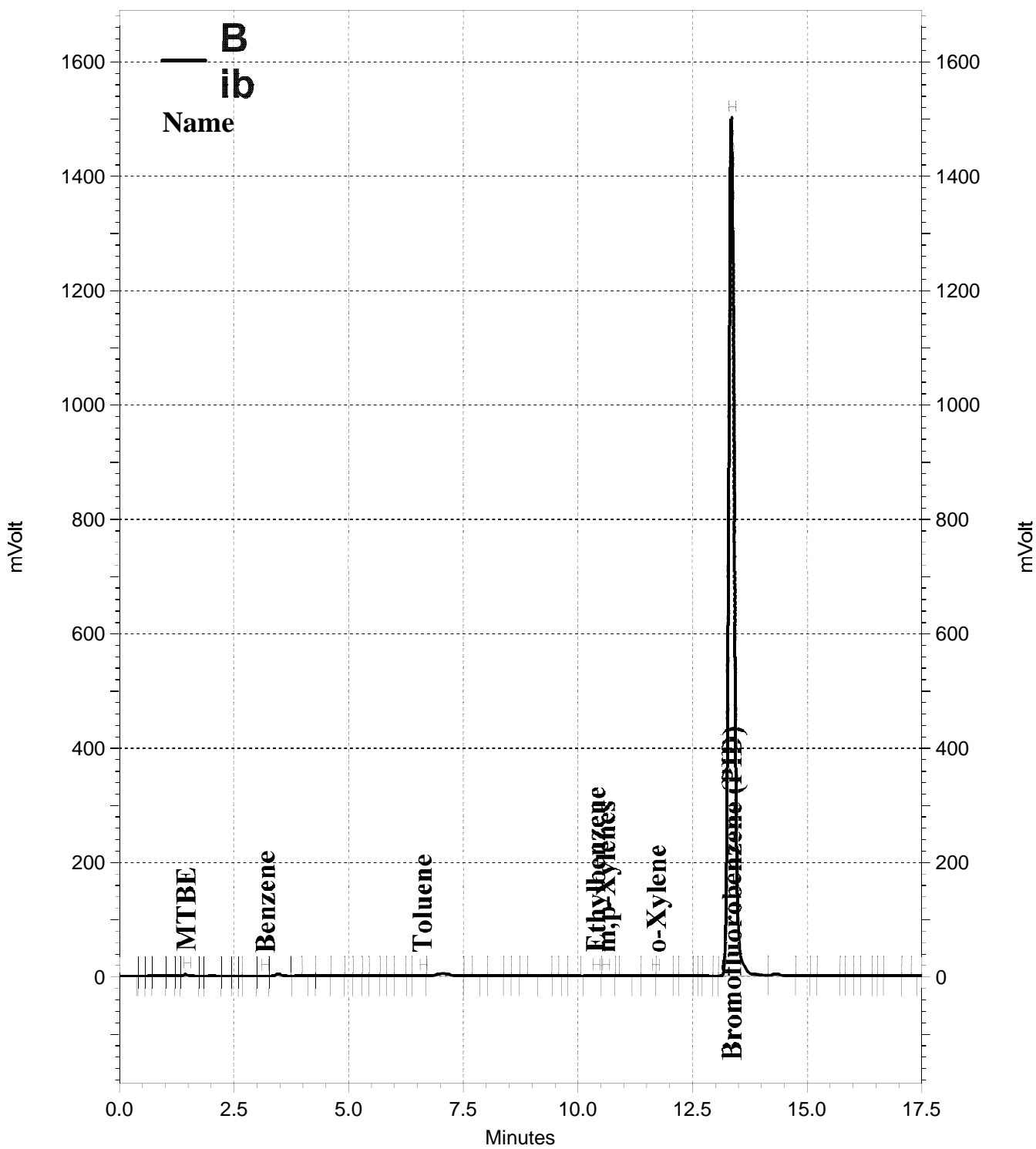
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

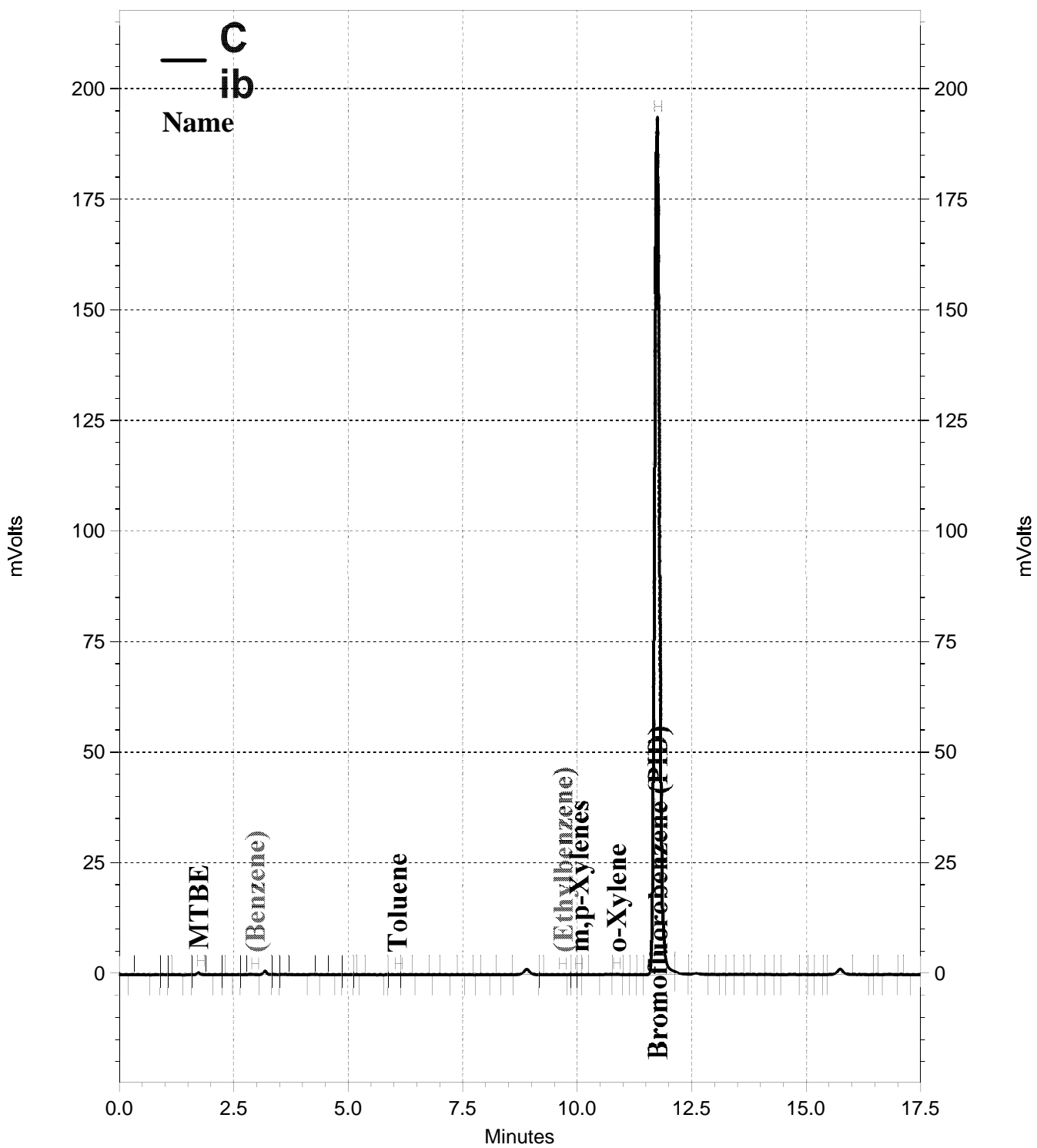
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-007_2D47.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-007, B



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-007, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq	Software Version 3.1.7
Sample Name: ib	Run Date: 4/19/2019 1:06:35 PM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-007	Analysis Date: 4/19/2019 1:35:19 PM
Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results

Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.350	13.367	1146822	639.672
GAS:6-10			533671	235.795
GAS:6-12			735926	281.715
GAS:7-12			707234	350.337
JP4:7-12			707234	159.004
AVGAS:6-10			533671	133.531
AVGAS:7-12			707234	288.451

BTXE Instrument Results

Channel B: RTX-502.2 PID

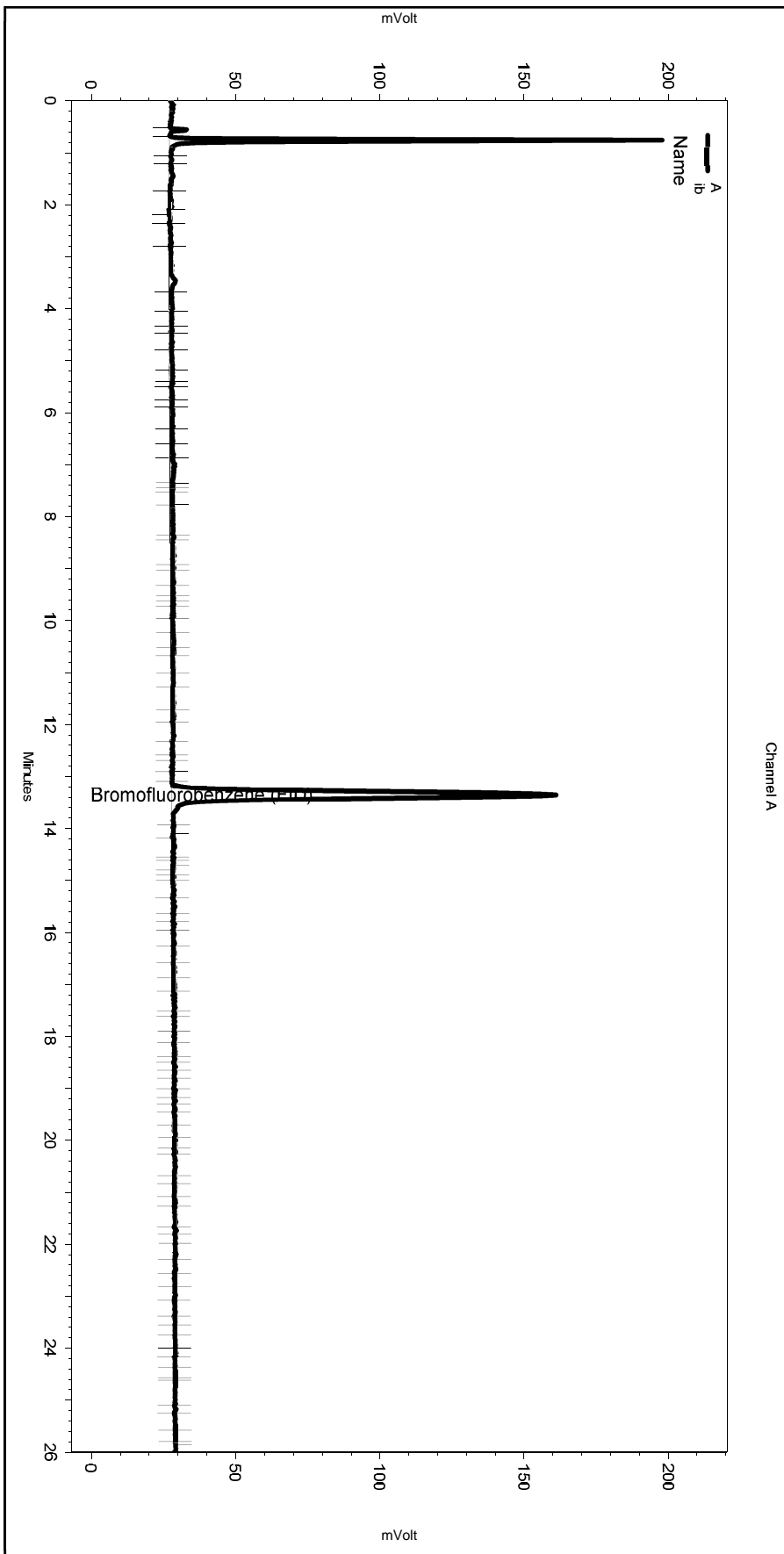
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.450	1.483	25551	2.751
Benzene	3.183	3.183	1172	0.037
Toluene	6.600	6.633	2578	0.090
Ethylbenzene	10.383	10.400	6330	0.257
m,p-Xylenes	10.600	10.617	3111	0.106
o-Xylene	11.700	11.700	1443	0.058
Bromofluorobenzene (PID)	13.350	13.367	12690379	677.661

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.733	1.783	2767	2.815
Benzene		2.966		0.000 BDL
Toluene	6.066	6.100	253	0.086
Ethylbenzene		9.683		0.000 BDL
m,p-Xylenes	10.033	10.033	88	0.030
o-Xylene	10.849	10.866	769	0.305
Bromofluorobenzene (PID)	11.749	11.766	1442100	773.134

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-007
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 1:06:35 PM
 Analysis Date: 4/19/2019 1:35:19 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

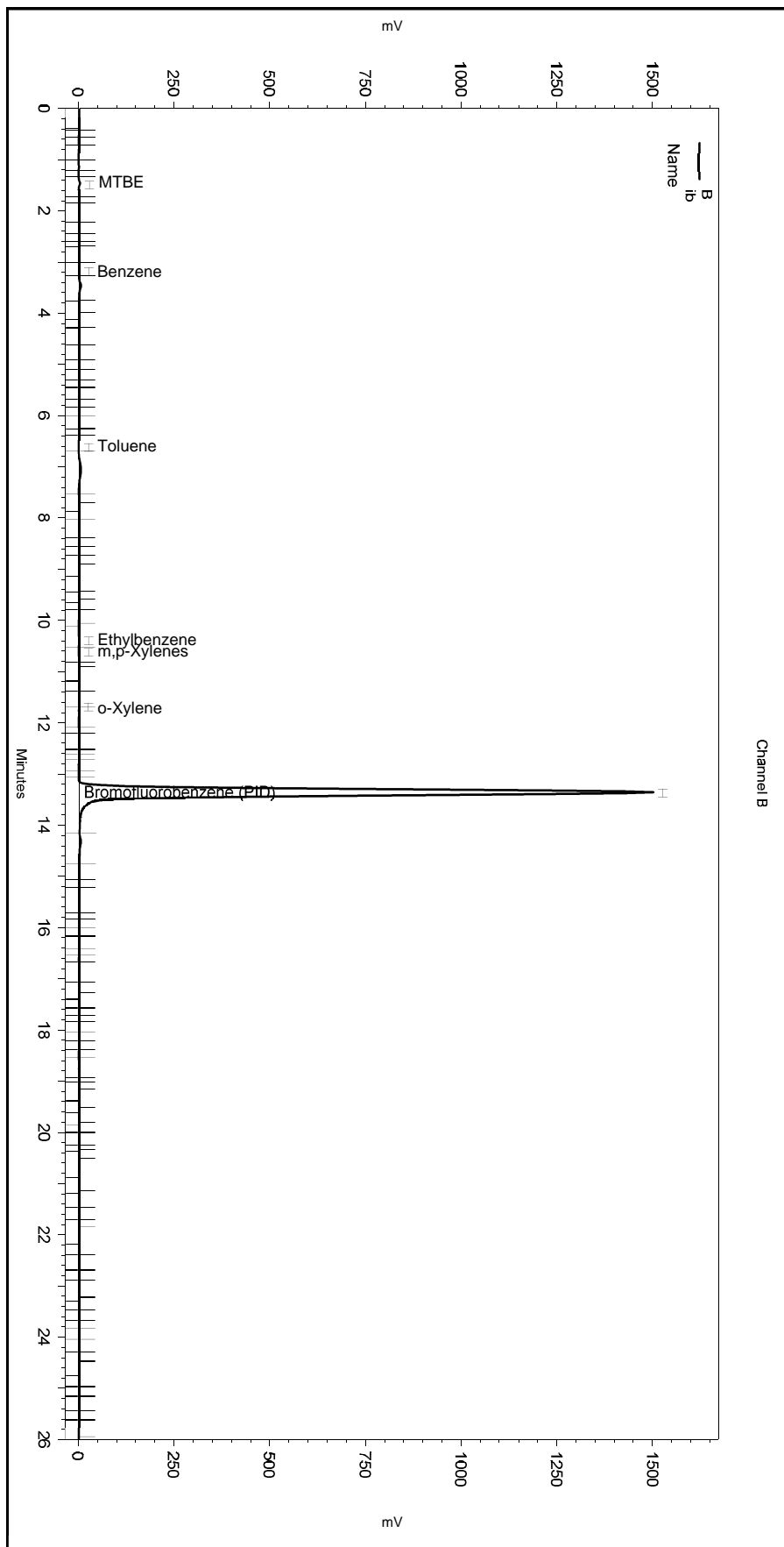
Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-007_C9AF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-007
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 1:06:35 PM
 Analysis Date: 4/19/2019 1:35:19 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 --< General Method Parameters >

No items selected for this section

 --< B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

Manual Integration Fixes

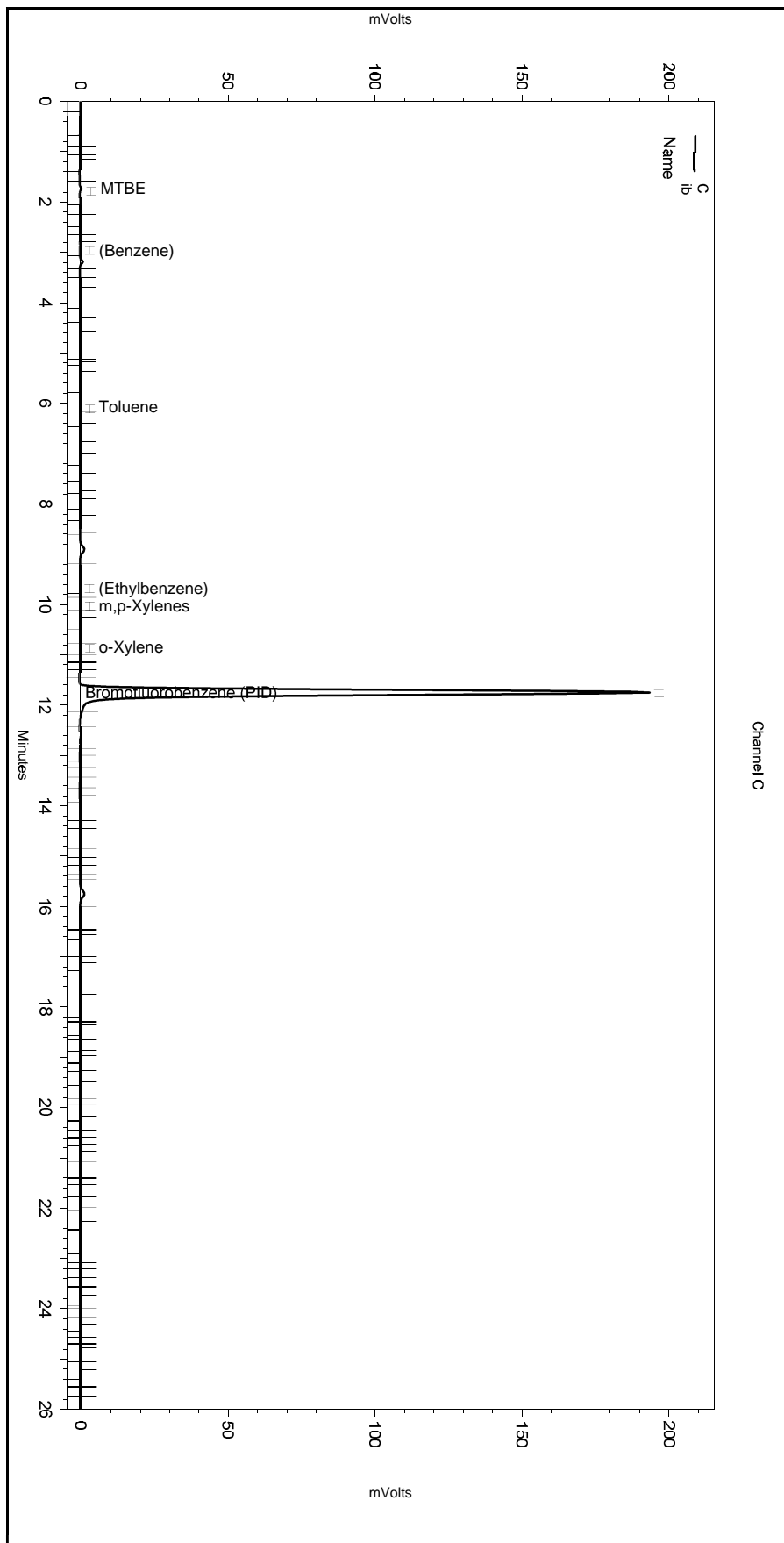
=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048109-007_C9AF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: ib
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-007
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 1:06:35 PM
 Analysis Date: 4/19/2019 1:35:19 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\109-007_C9AF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SPIKE USER REPORT FOR 309066 GCVOA Water
EPA 8015B

Type : CCV/BS
 Inst : GC07
 Seqnum : 329156075002.3
 File : 108_002
 IDF : 1.0
 PDF : 1.0
 Lab ID : QC972533
 Matrix : Water
 Batch : 269681
 Time : 18-APR-2019 09:54
 Cal : 329076864001
 Units : ug/L

Type : BSD
 Inst : GC07
 Seqnum : 329156075004.3
 File : 108_004
 IDF : 1.0
 PDF : 1.0
 Lab ID : QC972534
 Matrix : Water
 Batch : 269681
 Time : 18-APR-2019 11:11
 Cal : 329076864001

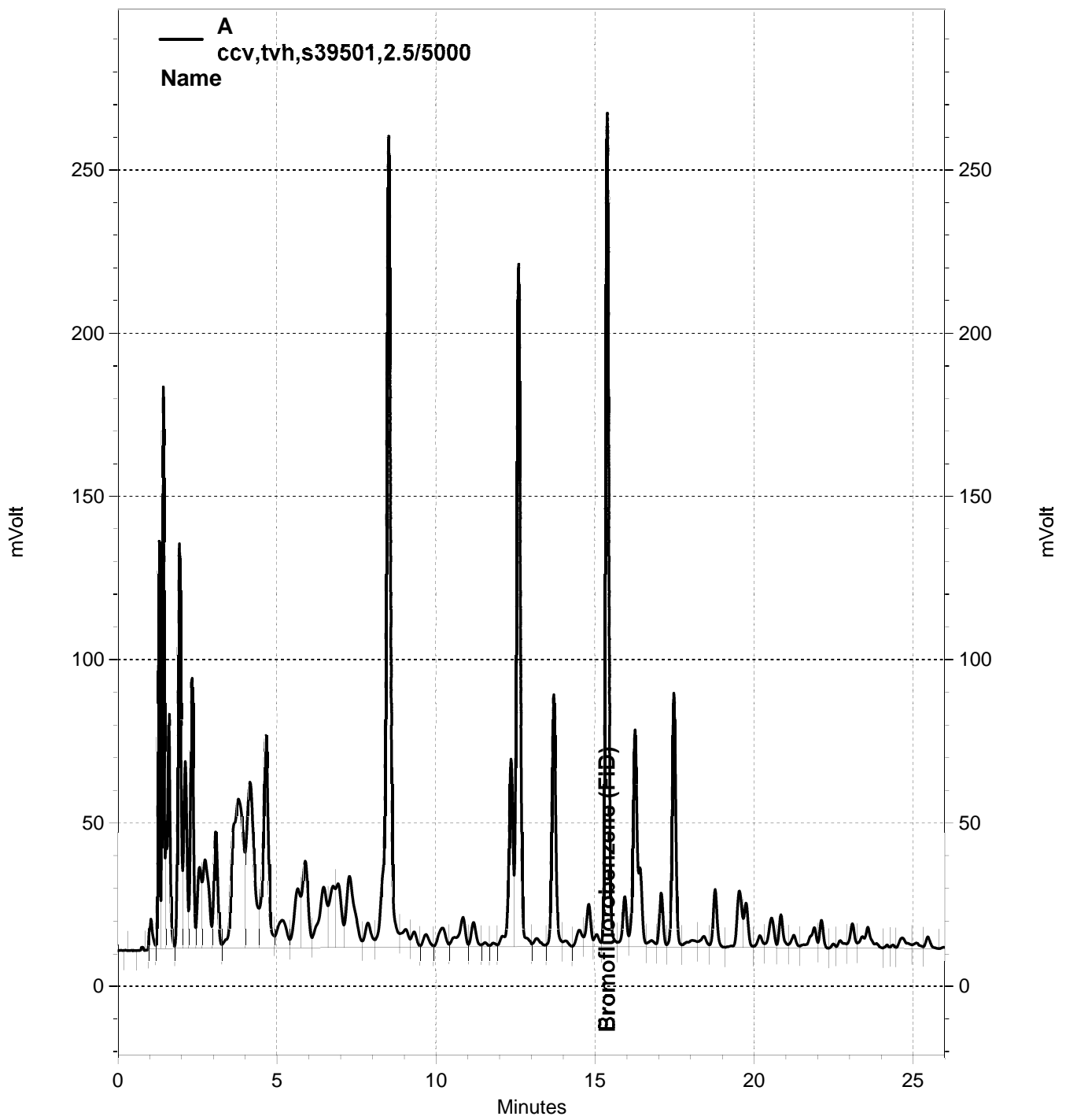
Analyte	Spiked	CCV/BS	CCV/BS	Ch	%Rec	BSD	BSD	Ch	%Rec	Limits	RPD	Lim	Flags
		Raw	Result			Raw	Result						
Gasoline C7-C12	1000	5515	1103	A	110	5640	1128	A	113	80-120	2	20	u
Bromofluorobenzene (FID)	180.0	878.7	175.7	A	98	847.0	169.4	A	94	80-120			u

ALE 04/18/19 : Corrected automatically drawn baseline for Ch. A. [general version]

JM2 04/18/19 : Corrected automatically drawn baseline for Ch. A for spike. [general version]

Analyst: JM2 Date: 04/22/19 Reviewer: EAH Date: 04/24/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: **ccv,tvh,s39501,2.5/5000**
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:32:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.433	1836856	878.706
GAS:6-10			13177795	6102.079
GAS:6-12			15056007	5625.884
GAS:7-12			11691383	5514.523
JP4:7-12			11691383	3118.367
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.200	315568	18.592
Benzene	4.683	4.717	2352787	49.764
Toluene	8.517	8.567	14619151	335.997
Ethylbenzene	12.367	12.417	2646349	68.419
m,p-Xylenes	12.600	12.650	12061280	275.491
o-Xylene	13.717	13.750	3991430	101.177
Bromofluorobenzene (PID)	15.383	15.433	25126845	655.978

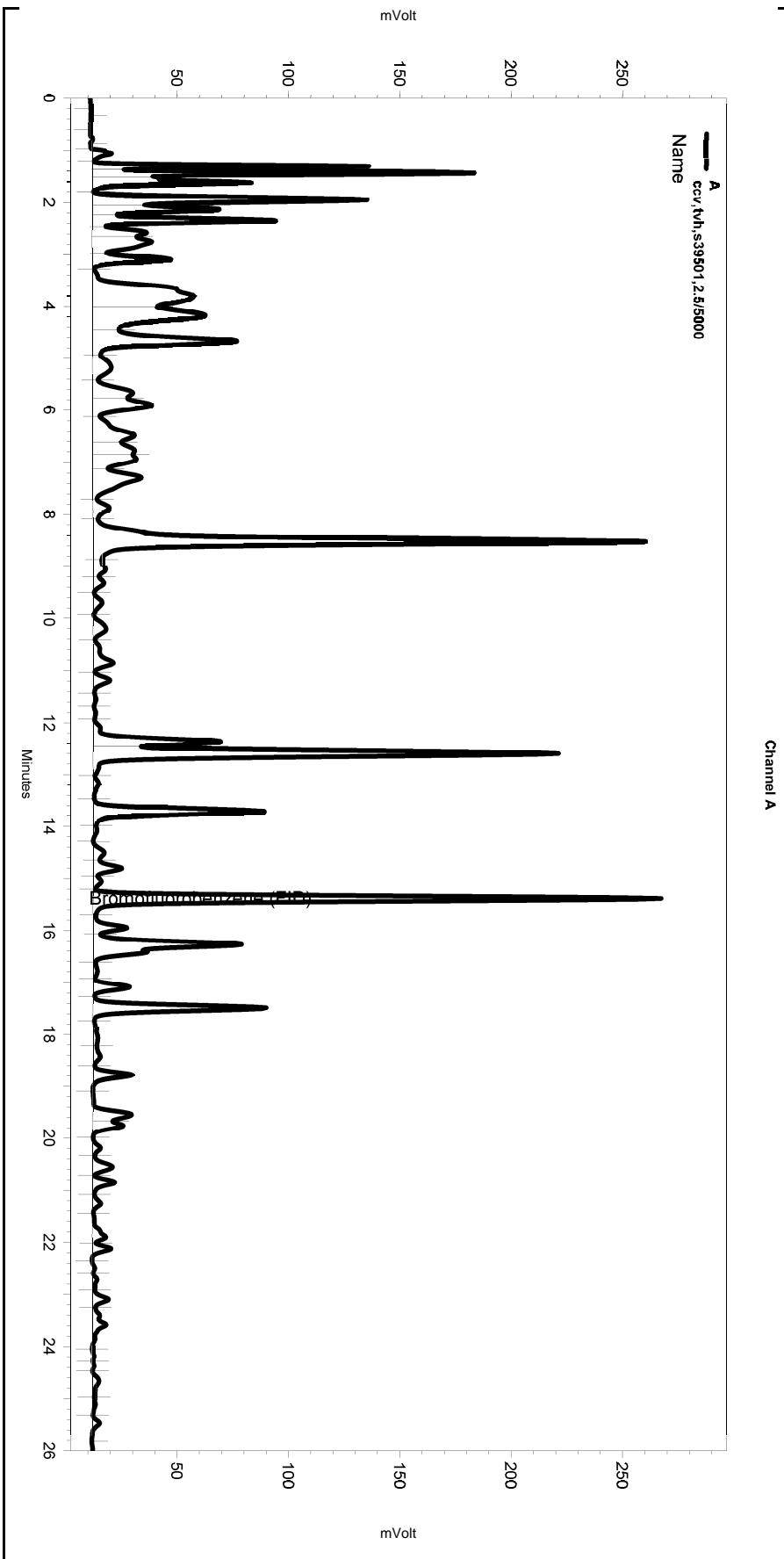
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.067	2.033	798001	55.576
Benzene	3.533	3.550	2113610	52.850
Toluene	6.950	6.983	14447058	386.289
Ethylbenzene	10.583	10.633	2419343	78.909
m,p-Xylenes	10.933	10.999	11833717	304.676
o-Xylene	11.799	11.849	3828120	100.066
Bromofluorobenzene (PID)	12.699	12.749	24073403	705.293

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:32:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

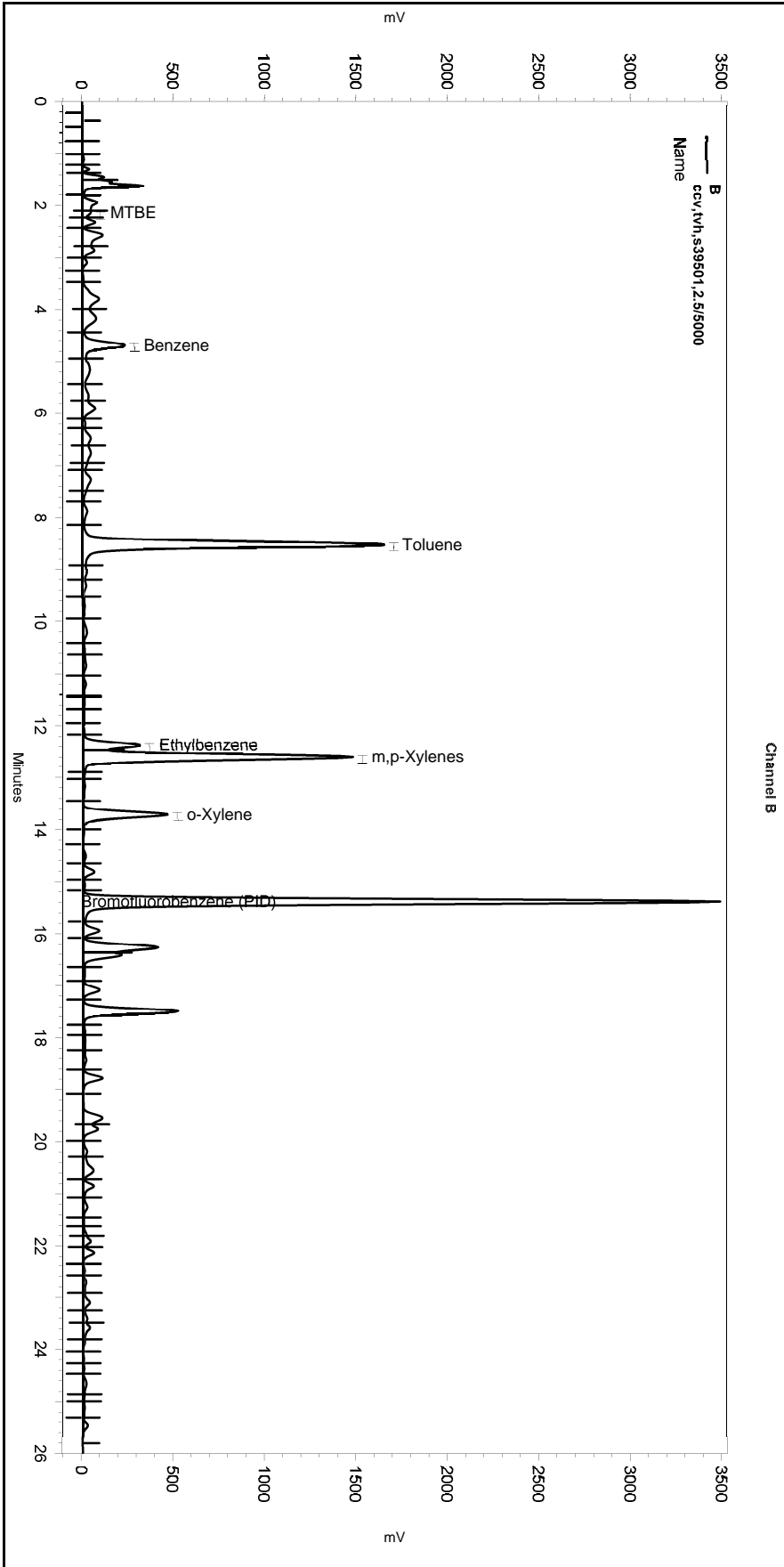
=====
 Manual Integration Fixes
 =====

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	0.97	14.296	0
Yes	Manual Baseline	14.28	25.813	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE053B.MET

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:32:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

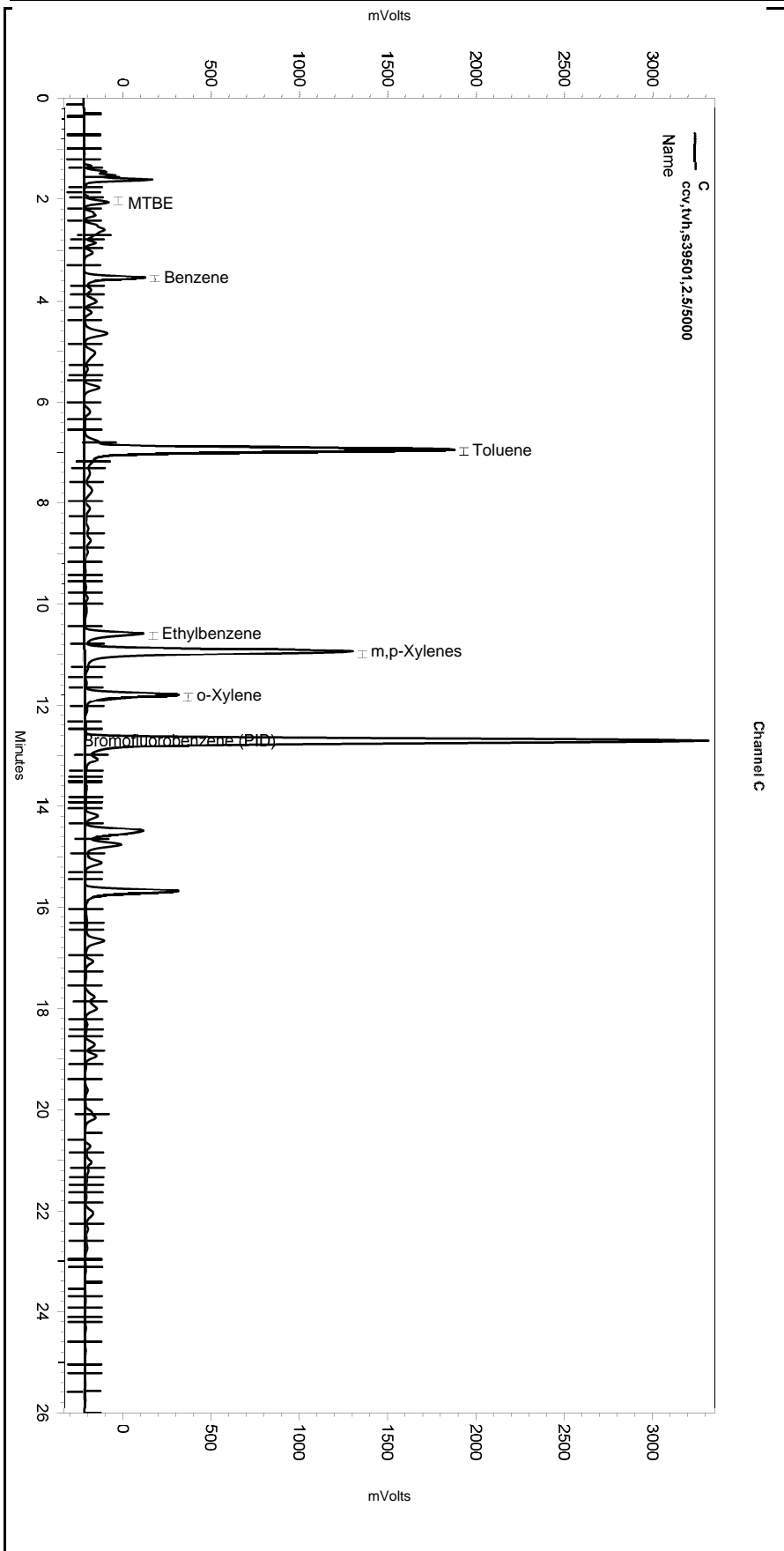
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX053B.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:32:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
Sample Name: ccv,tvh,s39501,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
Run Date: 4/18/2019 9:54:03 AM
Analysis Date: 4/18/2019 10:22:47 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.433	1862662	891.051
GAS:6-10			13868796	6422.052
GAS:6-12			15942137	5956.999
GAS:7-12			12483847	5888.308
JP4:7-12			12483847	3329.736
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.200	315568	18.592
Benzene	4.683	4.717	2352787	49.764
Toluene	8.517	8.567	14619151	335.997
Ethylbenzene	12.367	12.417	2646349	68.419
m,p-Xylenes	12.600	12.650	12061280	275.491
o-Xylene	13.717	13.750	3991430	101.177
Bromofluorobenzene (PID)	15.383	15.433	25126845	655.978

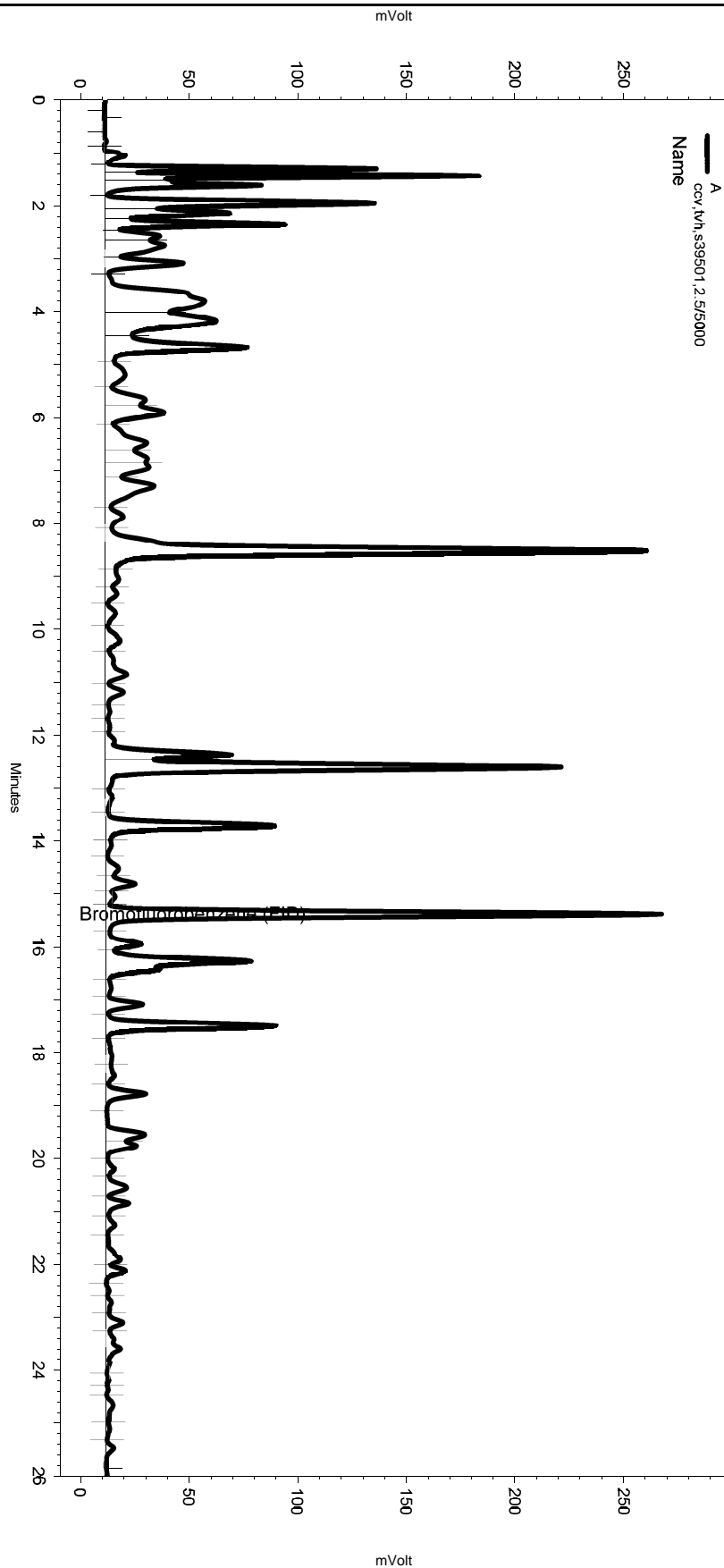
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.067	2.033	798001	55.576
Benzene	3.533	3.550	2113610	52.850
Toluene	6.950	6.983	14447058	386.289
Ethylbenzene	10.583	10.633	2419343	78.909
m,p-Xylenes	10.933	10.999	11833717	304.676
o-Xylene	11.799	11.849	3828120	100.066
Bromofluorobenzene (PID)	12.699	12.749	24073403	705.293

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-002
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:22:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

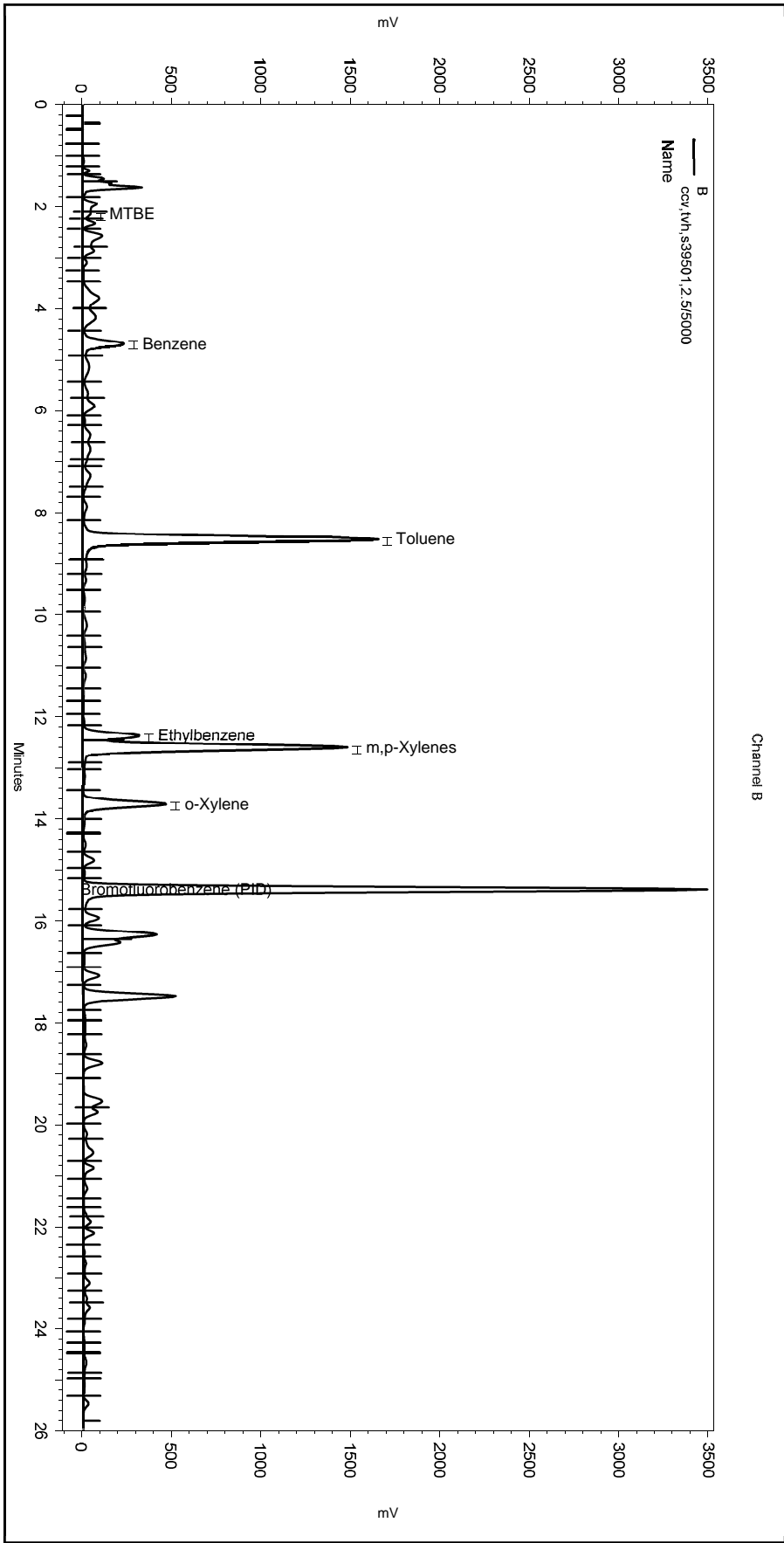
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-002_2D42.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-002
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:22:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-002_2D42.tmp

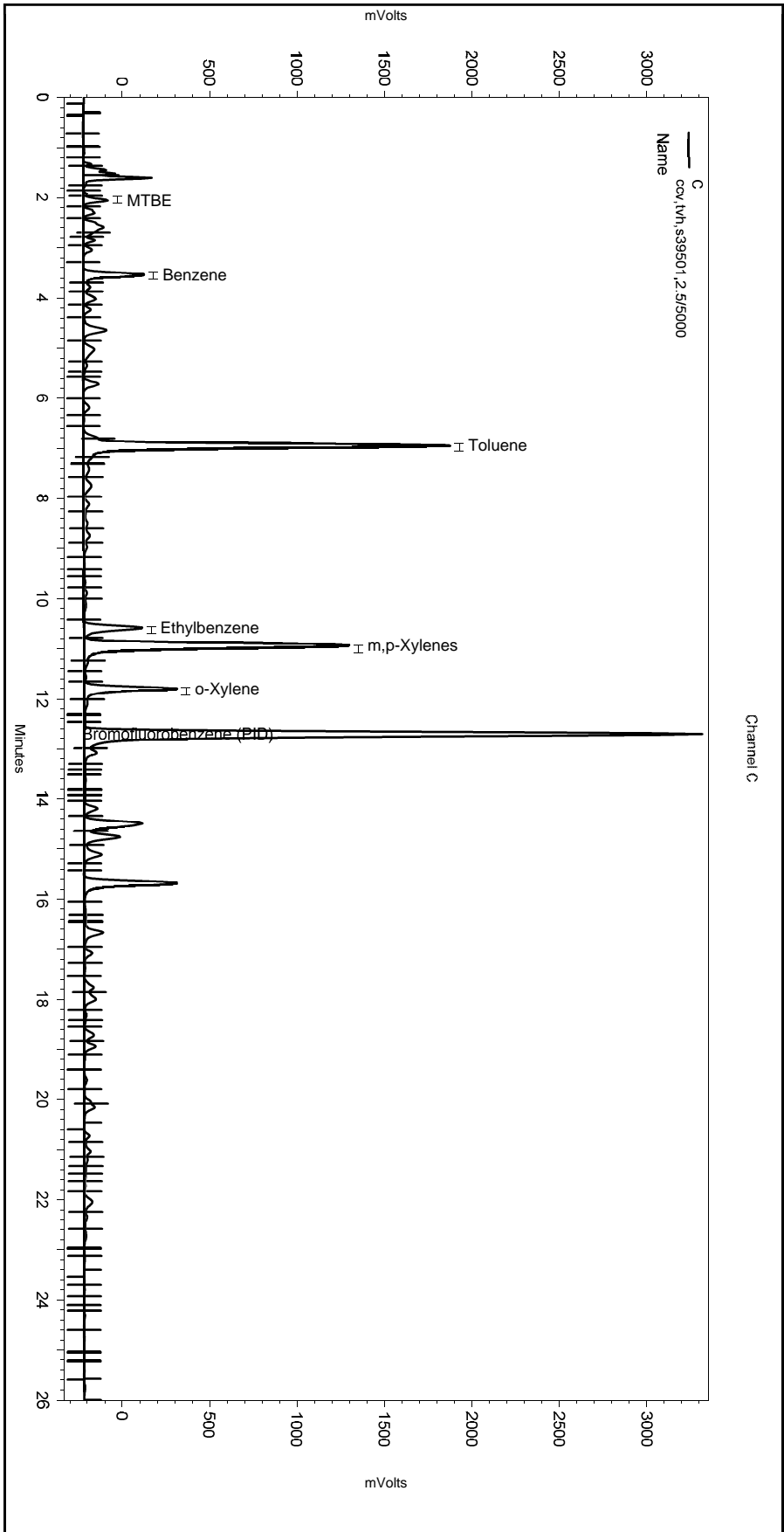
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
---------	------------	-----------------	----------------	-------

None

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-002
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:22:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

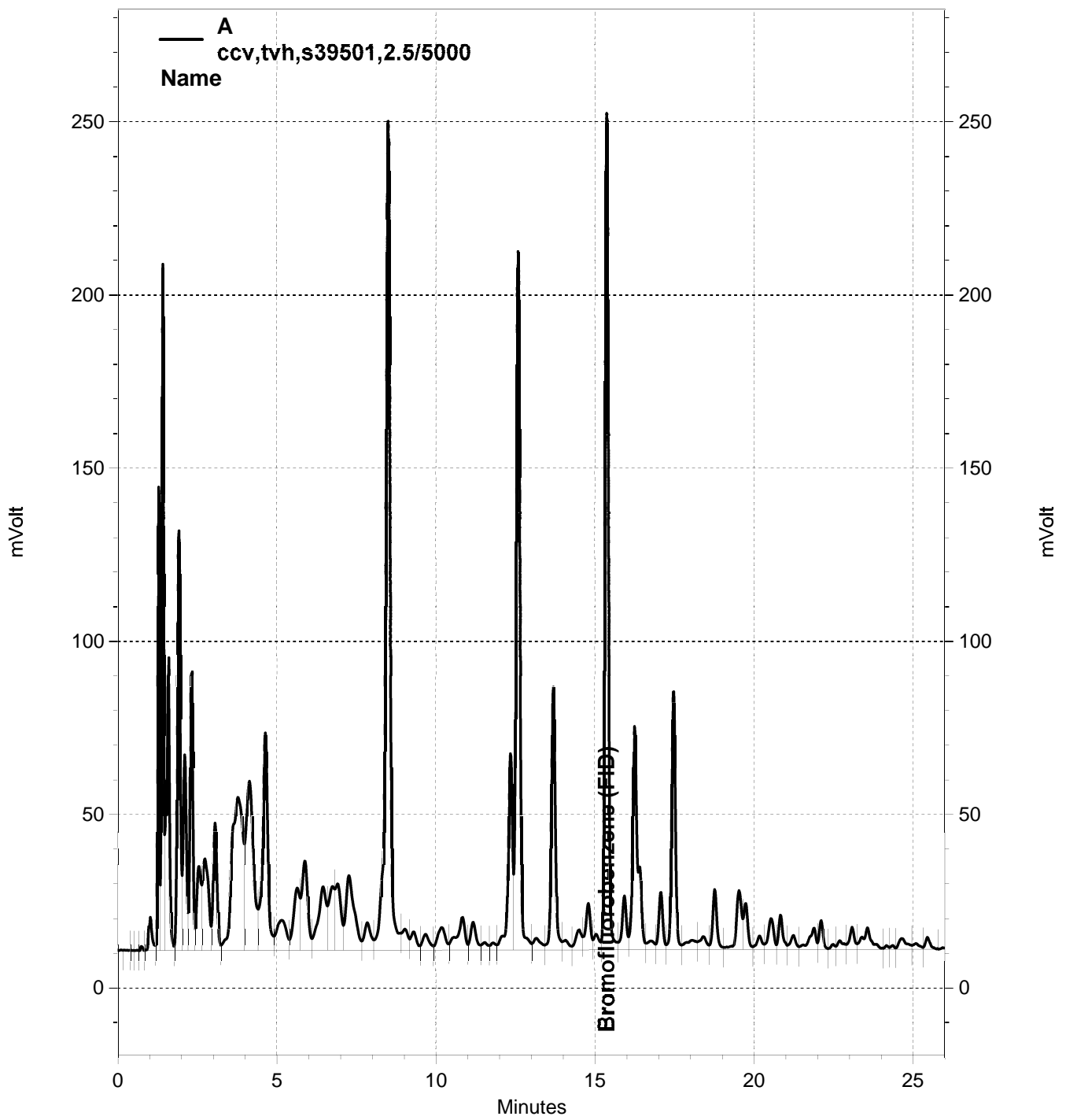
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-002_2D42.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-004, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
Sample Name: ccv,tvh,s39501,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-004
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
Run Date: 4/18/2019 11:11:10 AM
Analysis Date: 4/18/2019 11:39:54 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.433	1770642	847.031
GAS:6-10			13254904	6137.785
GAS:6-12			15235811	5693.070
GAS:7-12			11957077	5639.844
JP4:7-12			11957077	3189.234
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.200	320266	18.868
Benzene	4.667	4.717	2286617	48.364
Toluene	8.500	8.567	14266788	327.898
Ethylbenzene	12.367	12.417	2631728	68.041
m,p-Xylenes	12.583	12.650	11786849	269.223
o-Xylene	13.700	13.750	3962956	100.455
Bromofluorobenzene (PID)	15.367	15.433	24021975	627.134

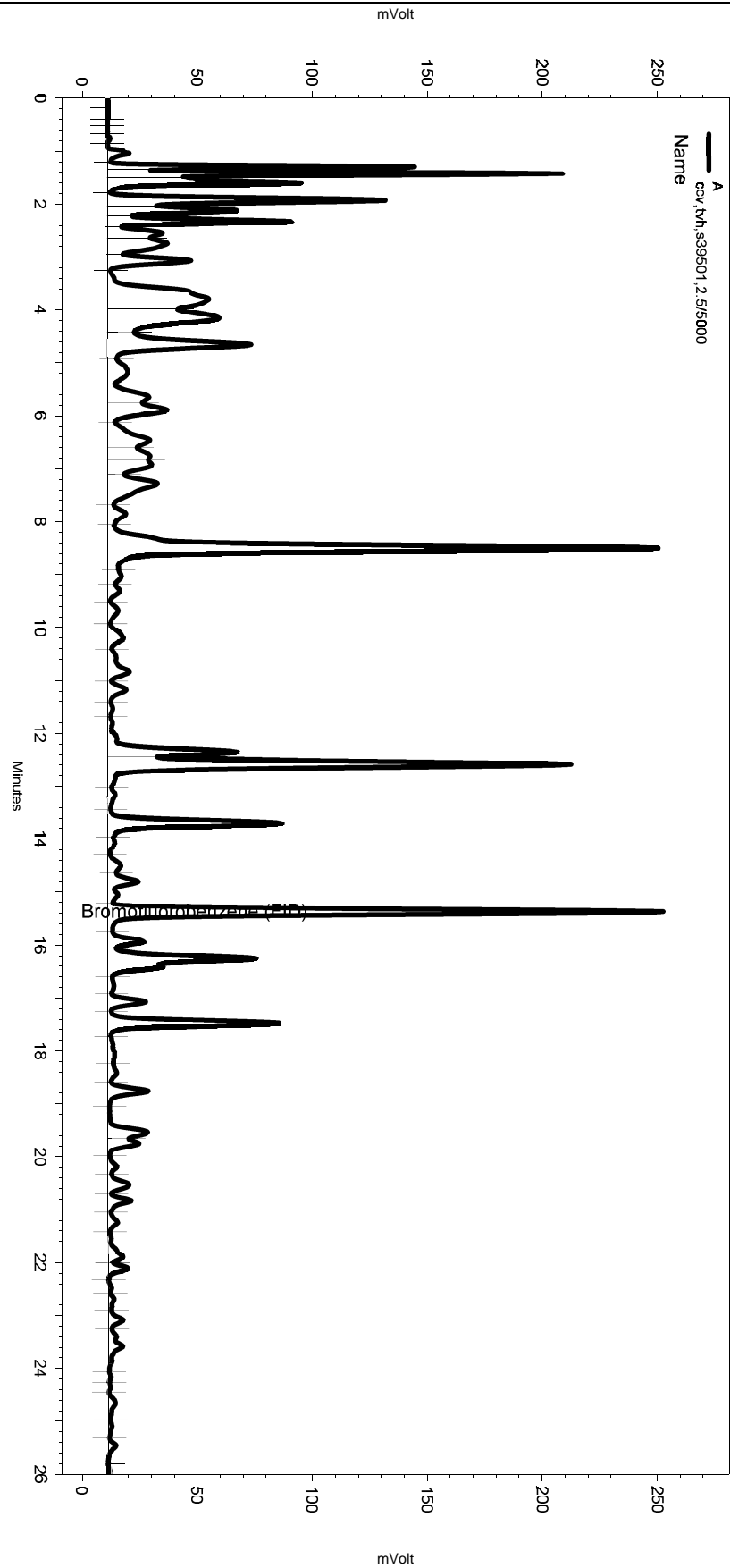
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.067	2.033	770741	53.677
Benzene	3.533	3.550	1985009	49.635
Toluene	6.950	6.983	13726795	367.031
Ethylbenzene	10.599	10.633	2242836	73.152
m,p-Xylenes	10.933	10.999	11213459	288.706
o-Xylene	11.799	11.849	3624663	94.748
Bromofluorobenzene (PID)	12.699	12.749	22556673	660.856

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-004
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 11:11:10 AM
 Analysis Date: 4/18/2019 11:39:54 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

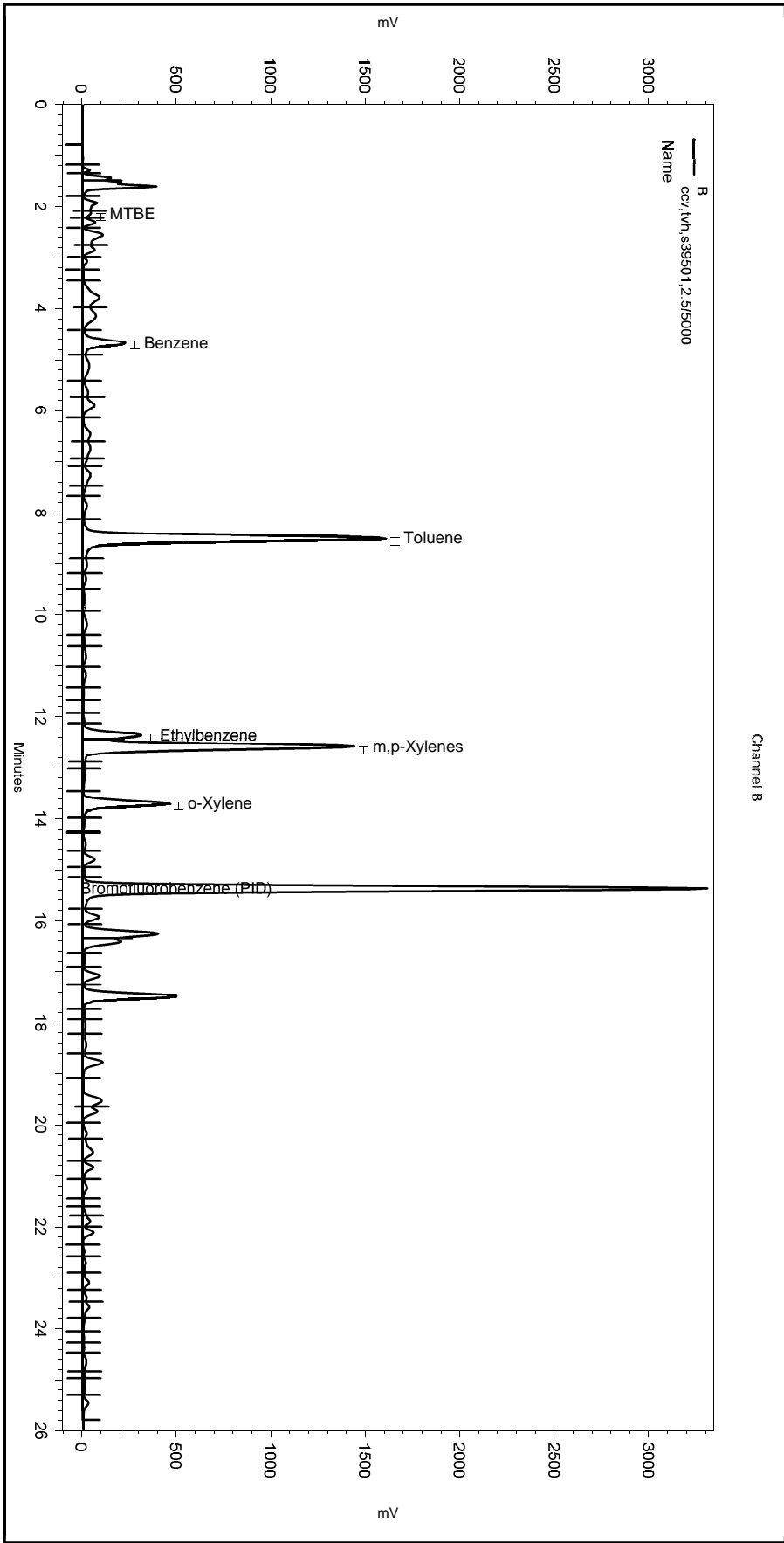
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-004_2D44.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-004
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 11:11:10 AM
 Analysis Date: 4/18/2019 11:39:54 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

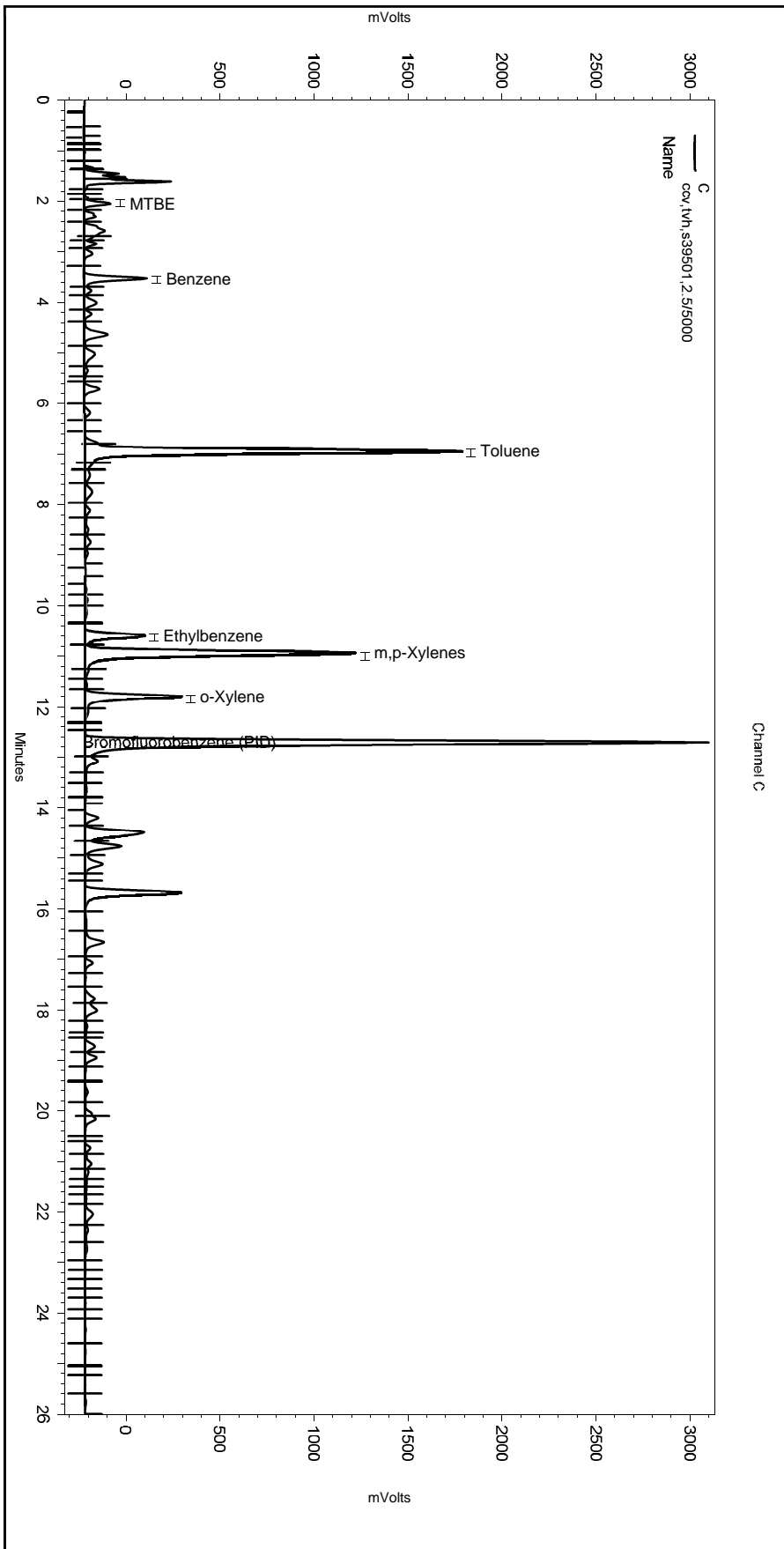
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-004_2D44.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-004
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 11:11:10 AM
 Analysis Date: 4/18/2019 11:39:54 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-004_2D44.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY SPIKE USER REPORT FOR 309066 GCVOA Water
EPA 8021B

Type : CCV/BS
 Inst : GC05
 Seqnum : 319157509003.1
 File : 109_003
 IDF : 1.0
 PDF : 1.0
 Lab ID : QC972738
 Matrix : Water
 Batch : 269730
 Time : 19-APR-2019 10:24
 Cal : 319127265001
 Units : ug/L

Type : BSD
 Inst : GC05
 Seqnum : 319157509005.1
 File : 109_005
 IDF : 1.0
 PDF : 1.0
 Lab ID : QC972739
 Matrix : Water
 Batch : 269730
 Time : 19-APR-2019 11:39
 Cal : 319127265001

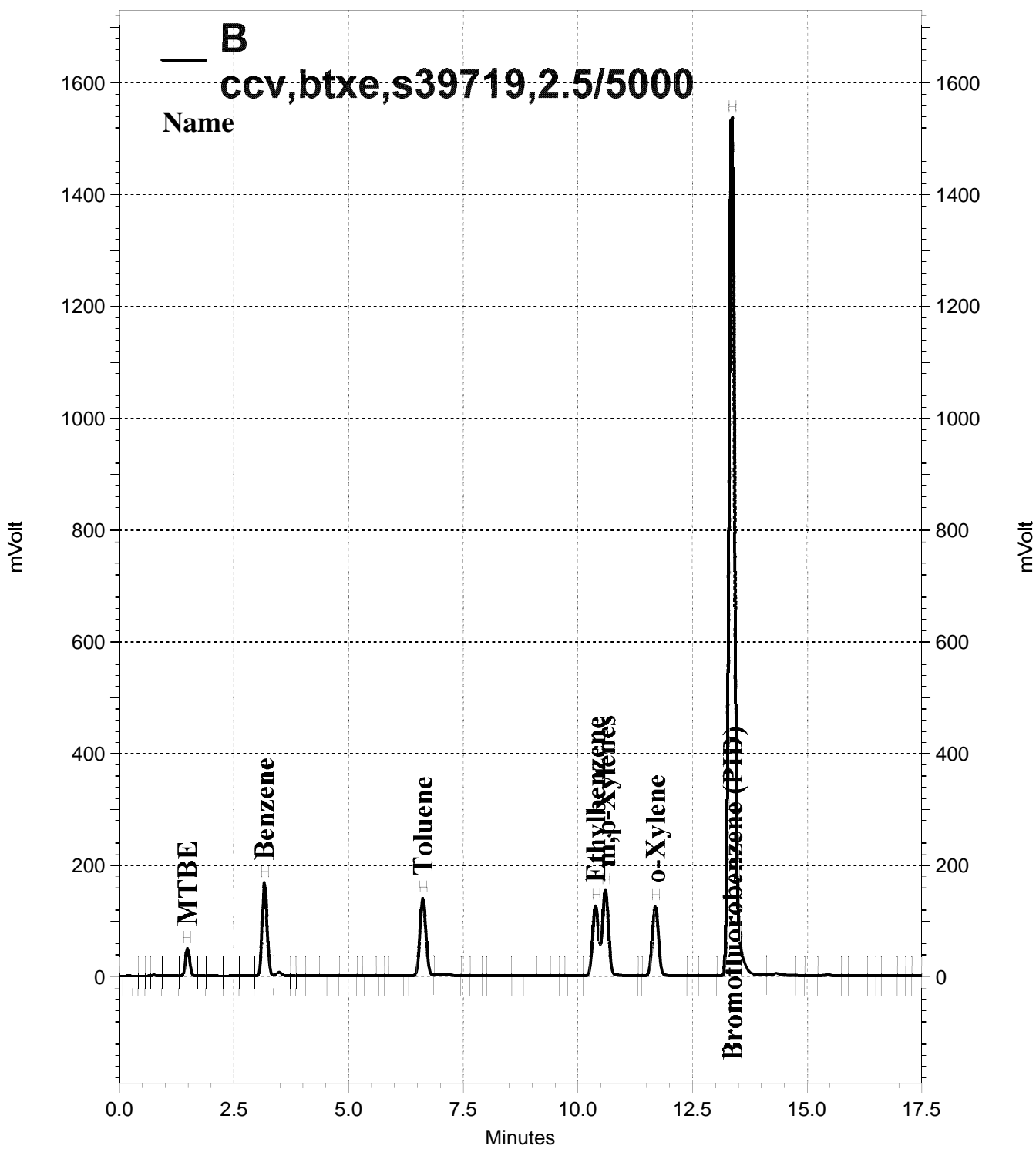
Analyte	Spiked	CCV/BS		Ch	%Rec	BSD		Ch	%Rec	Limits	RPD	Lim	Flags
		Raw	Result			Raw	Result						
Benzene	10.00	46.13	9.226	C	92	46.13	9.226	C	92	80-120	0	20	u
Toluene	10.00	45.46	9.092	B	91	44.34	8.868	B	89	80-120	2	20	u
Ethylbenzene	10.00	45.54	9.109	B	91	46.23	9.247	B	92	80-120	2	20	u
m,p-Xylenes	10.00	50.39	10.08	B	101	49.25	9.849	B	98	80-120	2	20	u
o-Xylene	10.00	48.42	9.685	B	97	47.75	9.550	B	95	80-120	1	20	u
Bromofluorobenzene (PID)	180.0	719.0	143.8	B	80	721.0	144.2	B	80	68-126			<c- >c- c- u

JM2 04/19/19 : Reporting from Channel C for benzene, using Channel B as confirmation. [general version]

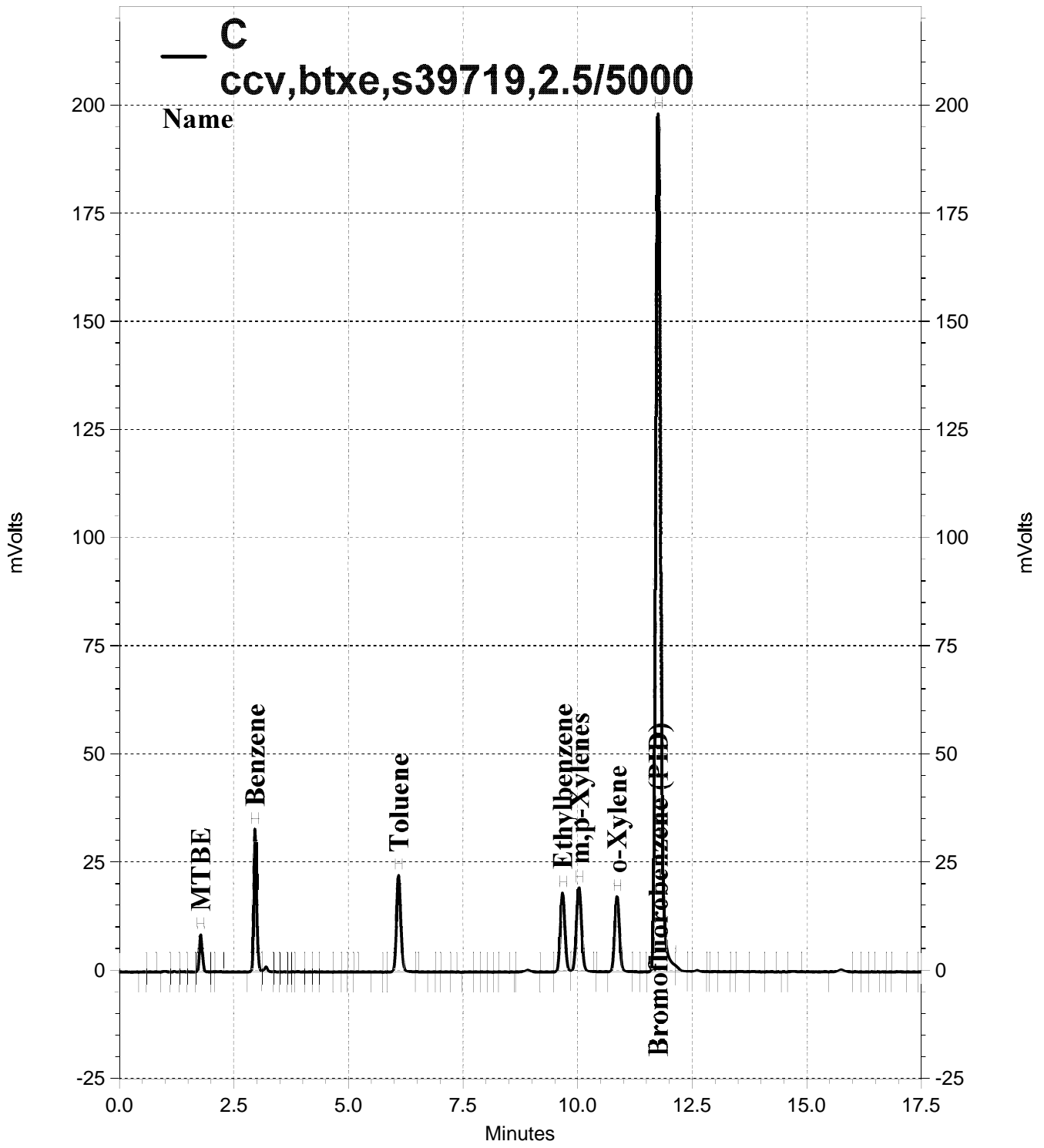
JM2 04/19/19 [Bromofluorobenzene (PID) B]: Passes control limits. [general version]

Analyst: JM2 Date: 04/22/19 Reviewer: EAH Date: 04/24/19

--low bias <=opening >=closing c=CCV u=use



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003, B



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq	Software Version 3.1.7
Sample Name: ccv,btxe,s39719,2.5/5000	Run Date: 4/19/2019 10:24:31 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003	Analysis Date: 4/19/2019 10:53:13 AM
Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhtxe088e.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results

Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.350	13.367	1216725	678.663
GAS:6-10			1471175	650.017
GAS:6-12			1668823	638.832
GAS:7-12			1631684	808.275
JP4:7-12			1631684	366.845
AVGAS:6-10			1471175	368.106
AVGAS:7-12			1631684	665.494

BTXE Instrument Results

Channel B: RTX-502.2 PID

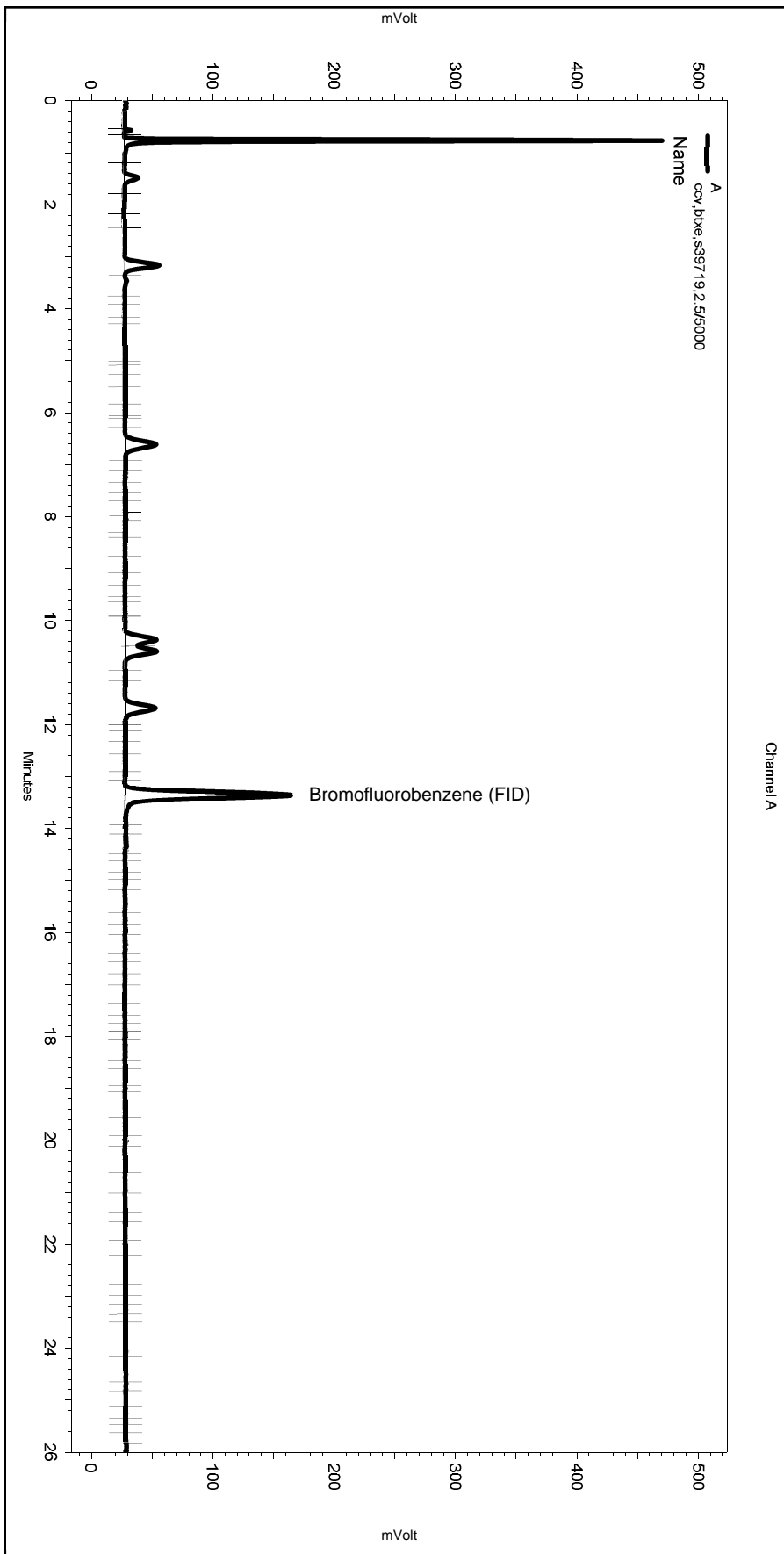
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.483	1.483	329330	35.457
Benzene	3.167	3.183	1269517	40.577
Toluene	6.617	6.633	1301602	45.460
Ethylbenzene	10.383	10.400	1122532	45.544
m,p-Xylenes	10.600	10.617	1476022	50.388
o-Xylene	11.683	11.700	1203167	48.424
Bromofluorobenzene (PID)	13.367	13.367	13465062	719.029

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.783	1.783	40295	40.988
Benzene	2.966	2.966	150198	46.132
Toluene	6.100	6.100	149320	50.516
Ethylbenzene	9.666	9.683	125901	51.057
m,p-Xylenes	10.033	10.033	150047	51.391
o-Xylene	10.849	10.866	126834	50.314
Bromofluorobenzene (PID)	11.749	11.766	1497979	803.092

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: ccv,btxe,s39719,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 10:24:31 AM
 Analysis Date: 4/19/2019 10:53:13 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

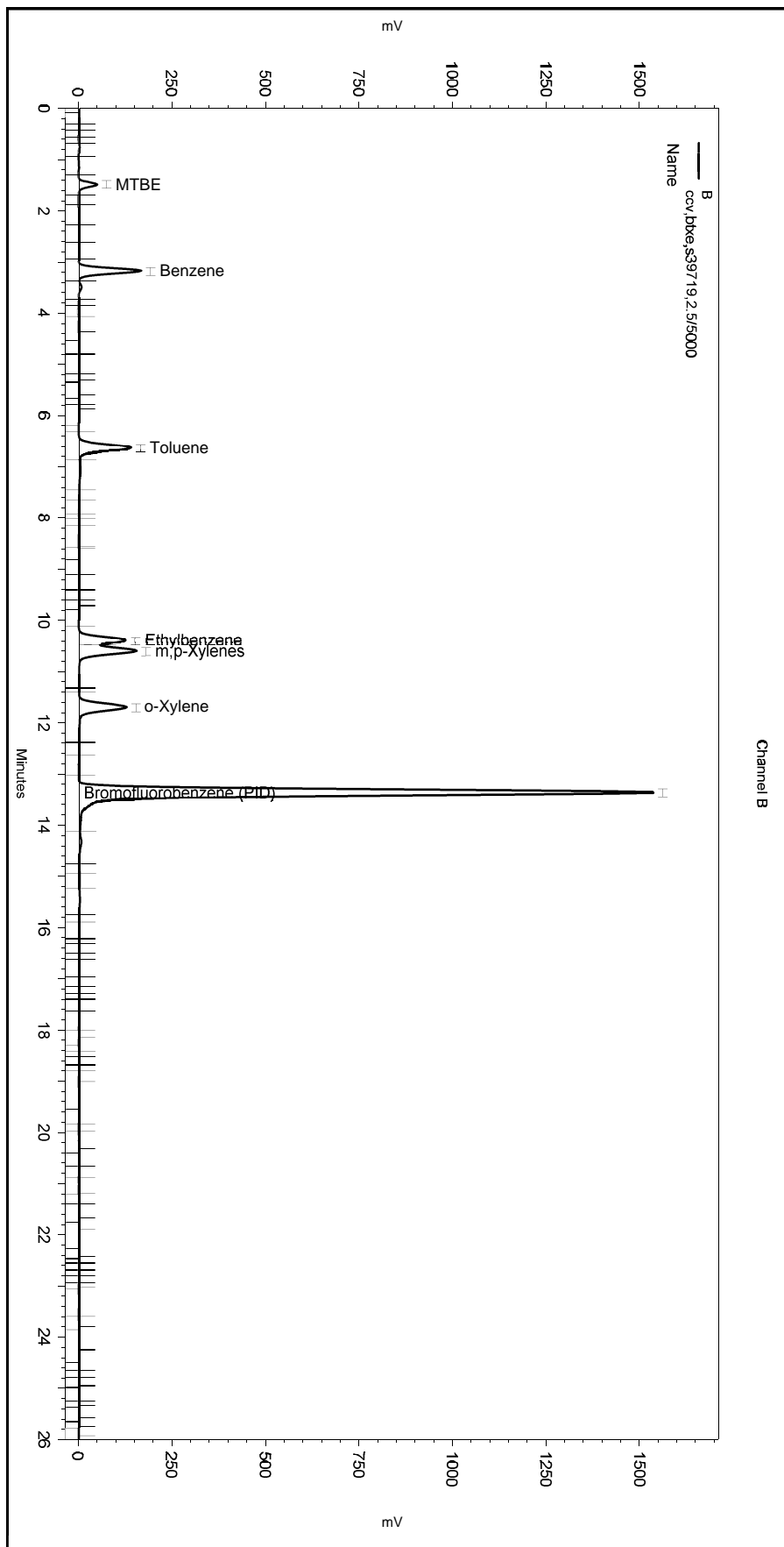
Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-003_C9AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: ccv,btxe,s39719,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 10:24:31 AM
 Analysis Date: 4/19/2019 10:53:13 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

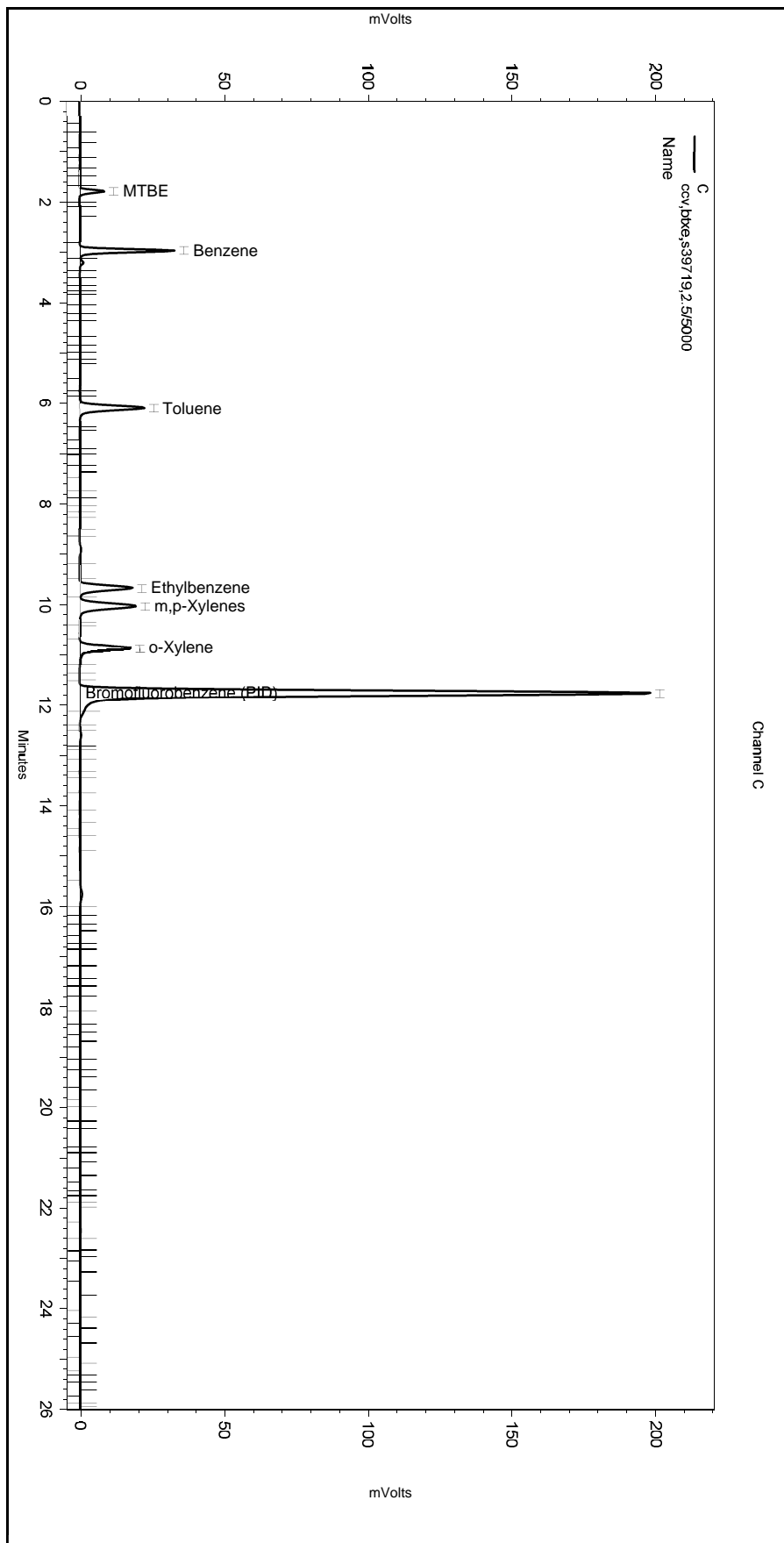
Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048109-003_C9AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: ccv,btxe,s39719,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 10:24:31 AM
 Analysis Date: 4/19/2019 10:53:13 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

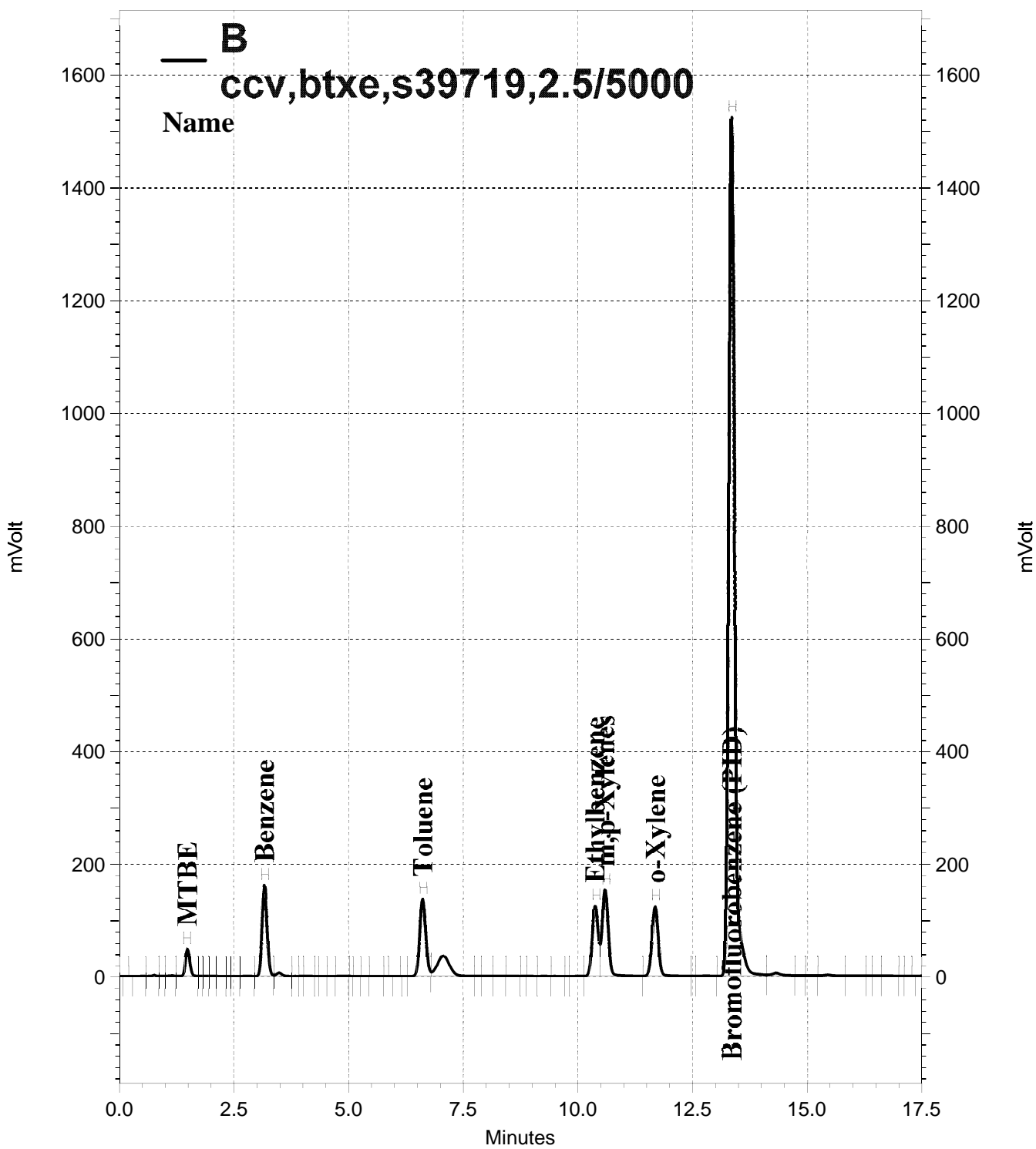
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

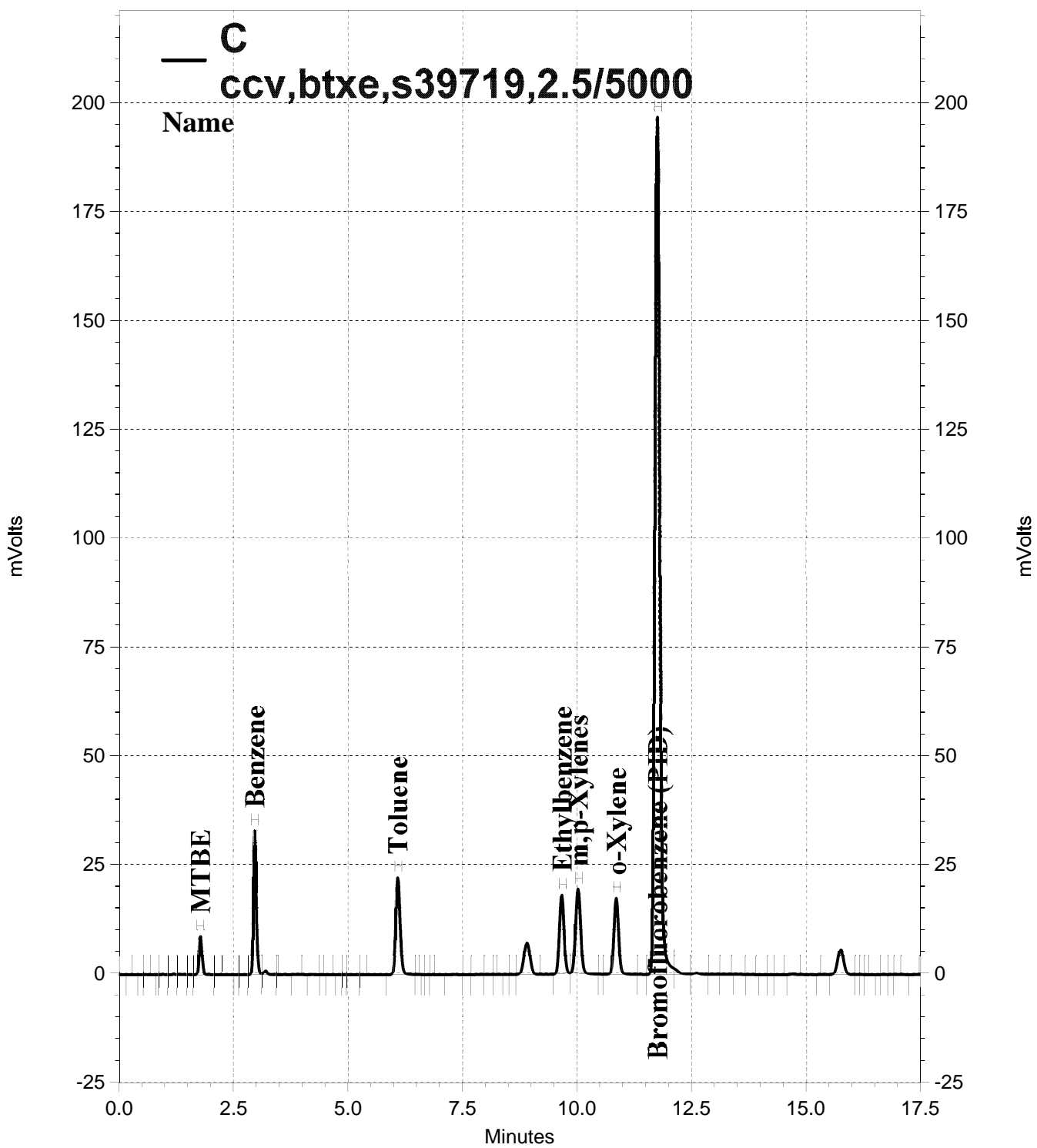
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\109-003_C9AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
---------	------------	-----------------	----------------	-------

None



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-005, B



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-005, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq	Software Version 3.1.7
Sample Name: ccv,btxe,s39719,2.5/5000	Run Date: 4/19/2019 11:39:49 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-005	Analysis Date: 4/19/2019 12:08:33 PM
Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.350	13.367	1219672	680.307
GAS:6-10			1589408	702.256
GAS:6-12			1701626	651.389
GAS:7-12			1654051	819.355
JP4:7-12			1654051	371.873
AVGAS:6-10			1589408	397.690
AVGAS:7-12			1654051	674.617

BTXE Instrument Results
Channel B: RTX-502.2 PID

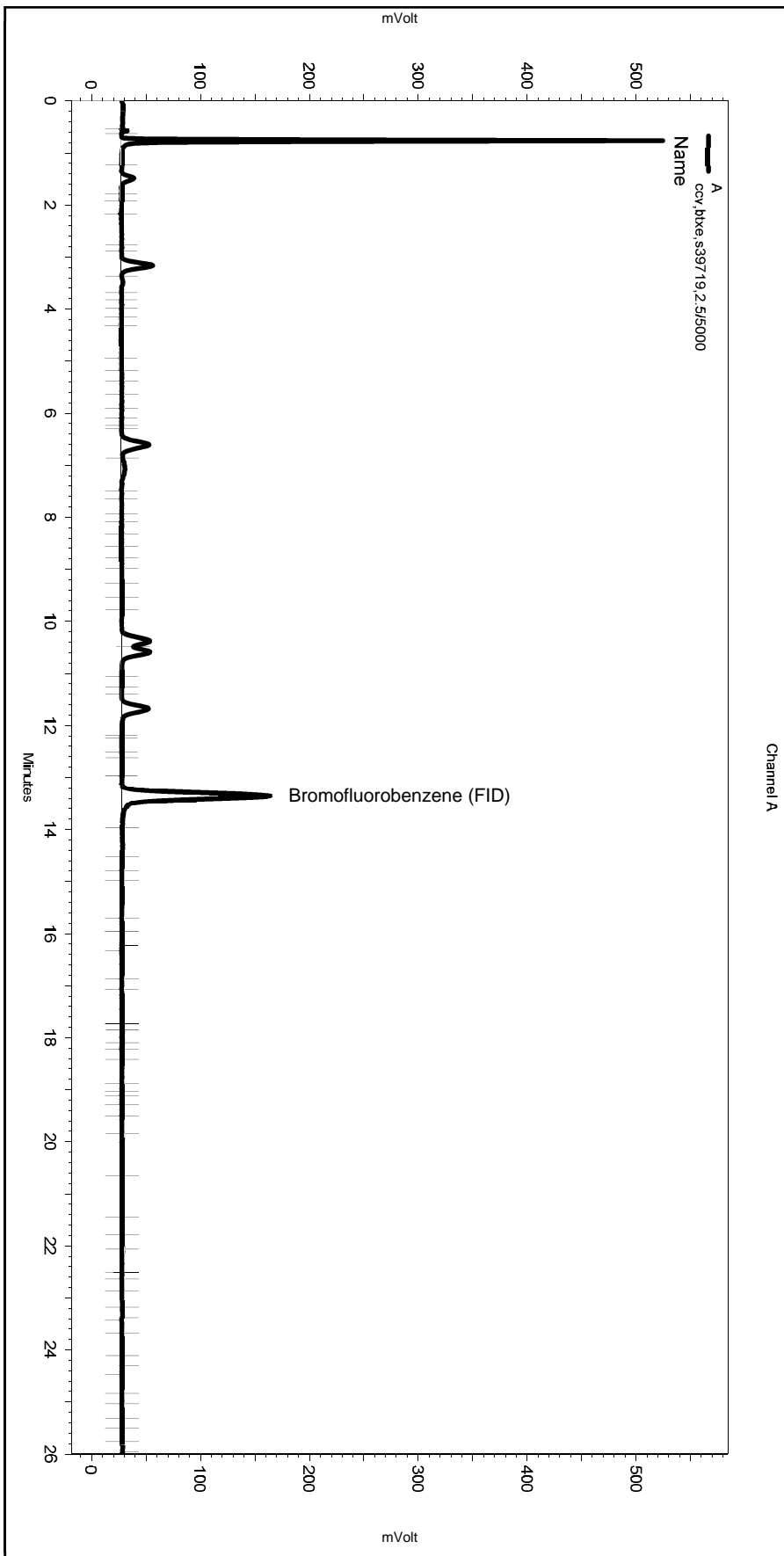
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.483	1.483	323487	34.828
Benzene	3.167	3.183	1223425	39.104
Toluene	6.617	6.633	1269519	44.340
Ethylbenzene	10.367	10.400	1139516	46.233
m,p-Xylenes	10.583	10.617	1442607	49.247
o-Xylene	11.683	11.700	1186396	47.749
Bromofluorobenzene (PID)	13.350	13.367	13502400	721.022

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.783	1.783	40968	41.672
Benzene	2.966	2.966	150197	46.132
Toluene	6.083	6.100	149596	50.609
Ethylbenzene	9.666	9.683	127082	51.536
m,p-Xylenes	10.016	10.033	150572	51.571
o-Xylene	10.849	10.866	126909	50.344
Bromofluorobenzene (PID)	11.749	11.766	1460008	782.735

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: ccv,btxe,s39719,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-005
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 11:39:49 AM
 Analysis Date: 4/19/2019 12:08:33 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

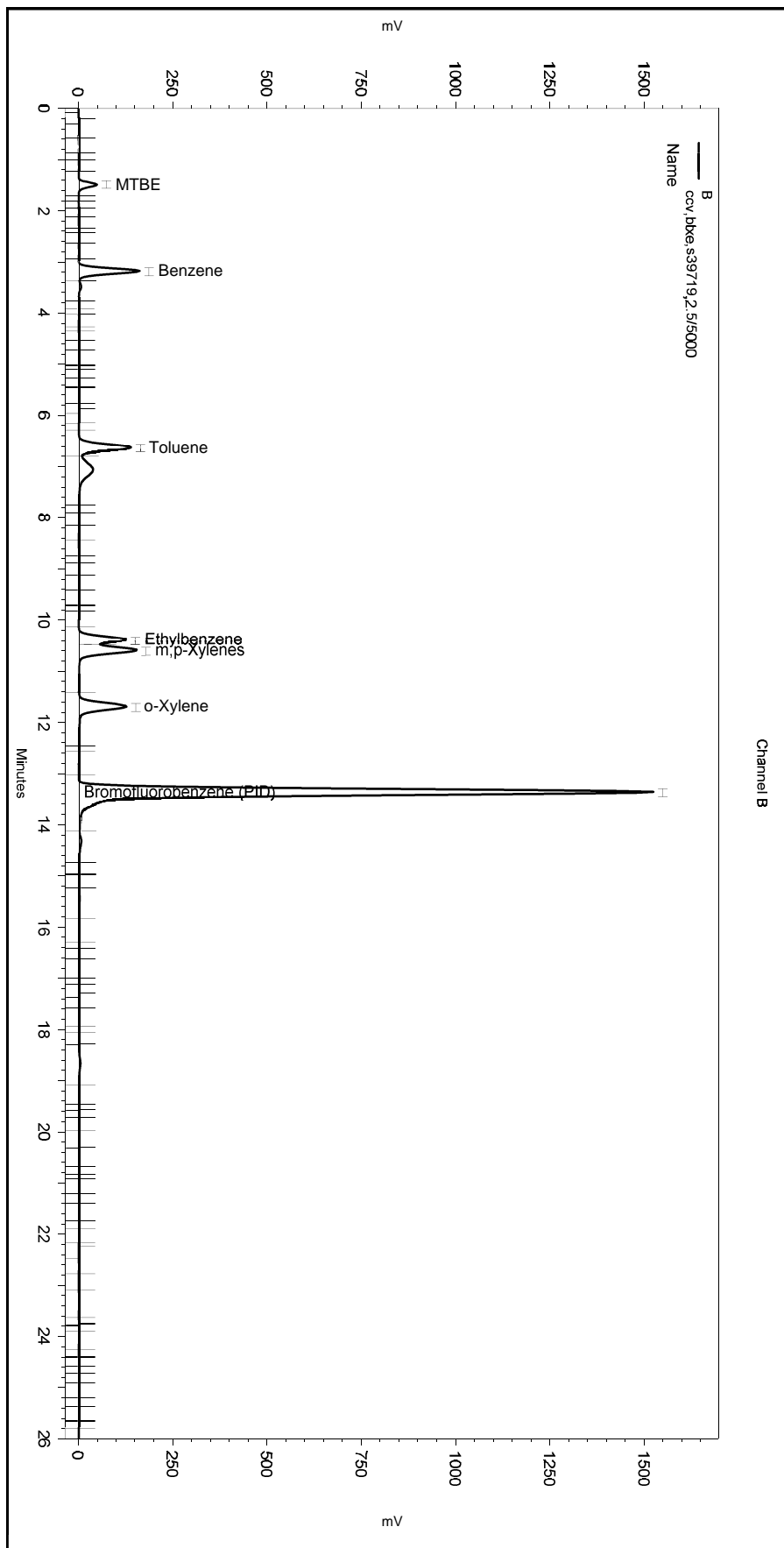
Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-005_C9AD.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: ccv,btxe,s39719,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-005
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 11:39:49 AM
 Analysis Date: 4/19/2019 12:08:33 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

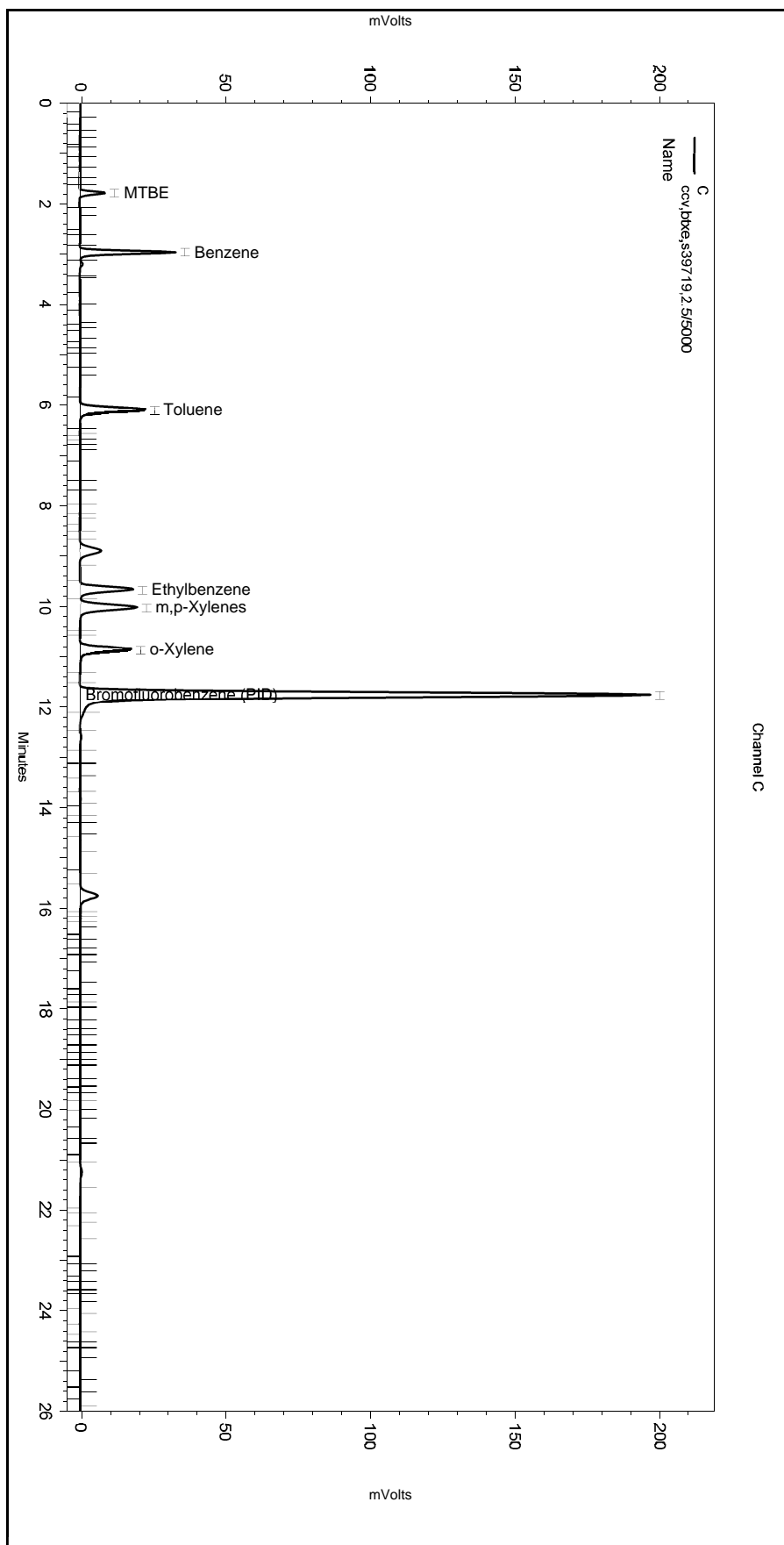
Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048109-005_C9AD.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: ccv,btxe,s39719,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-005
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 11:39:49 AM
 Analysis Date: 4/19/2019 12:08:33 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\109-005_C9AD.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

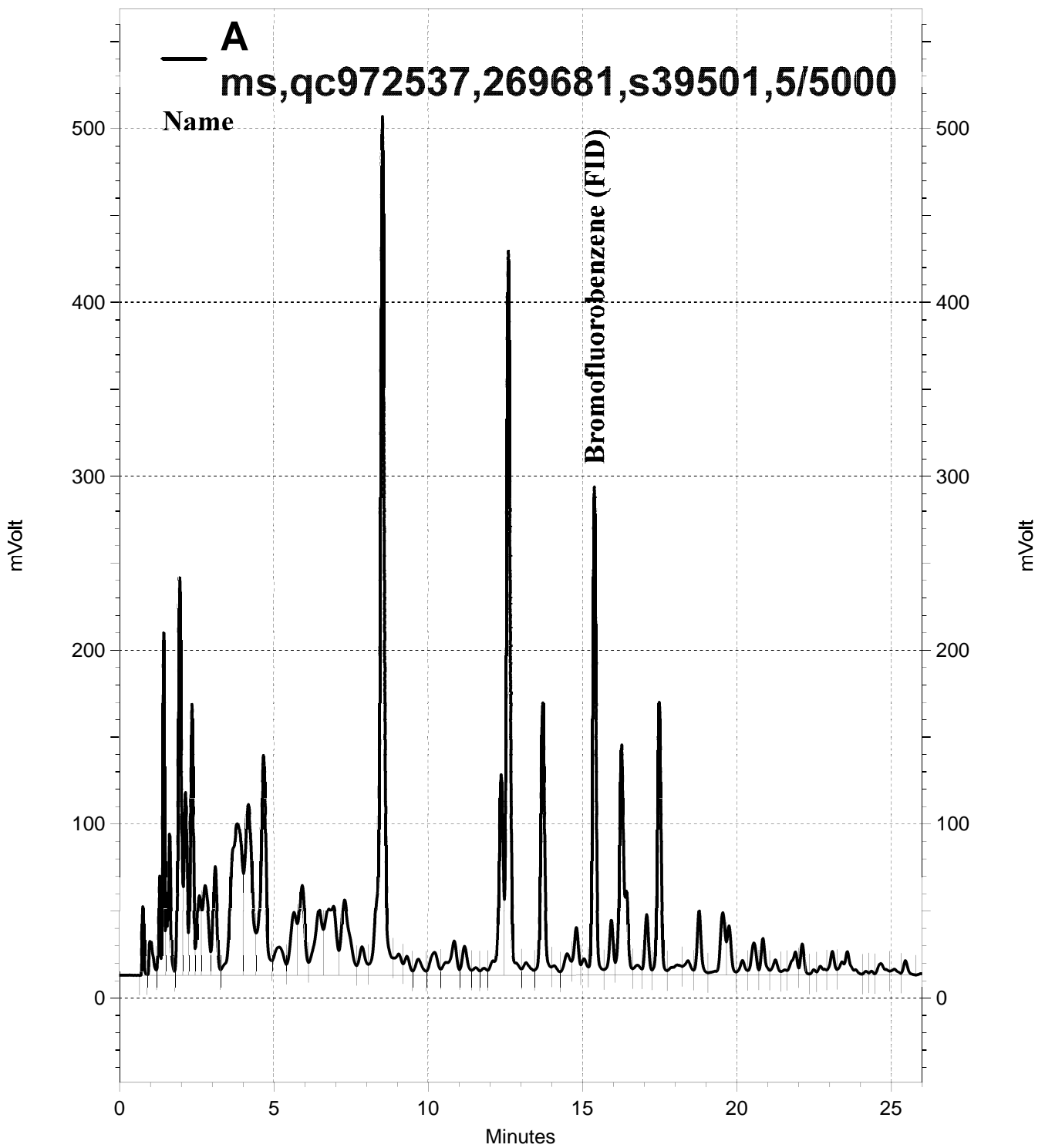
ENTHALPY SPIKE USER REPORT FOR 309066 GCVOA Water
EPA 8015B

Type : MSS	Type : MS	Type : MSD
Inst : GC07	Inst : GC07	Inst : GC07
Seqnum : 329156075008	Seqnum : 329156075012.3	Seqnum : 329156075013.3
File : 108_008	File : 108_012	File : 108_013
IDF : 1.0	IDF : 1.0	IDF : 1.0
PDF : 1.0	PDF : 1.0	PDF : 1.0
Lab ID : 309045-001	Lab ID : QC972537	Lab ID : QC972538
Matrix : Water	Matrix : Water	Matrix : Water
Batch : 269681	Batch : 269681	Batch : 269681
Time : 18-APR-2019 13:52	Time : 18-APR-2019 16:45	Time : 18-APR-2019 17:24
Cal : 329076864001	Cal : 329076864001	Cal : 329076864001
Units : ug/L		

Analyte	MSS			MS		MS		MSD		MSD		Limits	RPD	Lim	Flags
	MSS	Ch	Spiked	Raw	Result	Ch	%Rec	Raw	Result	Ch	%Rec				
Gasoline C7-C12	20.07	A	2000	11610	2323	A	115	11550	2310	A	114	78-120	1	20	u
Bromofluorobenzene (FID)			180.0	984.2	196.8	A	109	976.7	195.3	A	109	80-120			u

Analyst: JM2 Date: 04/22/19 Reviewer: EAH Date: 04/24/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-012, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
Sample Name: ms,qc972537,269681,s39501,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-012
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
Run Date: 4/18/2019 4:45:42 PM
Analysis Date: 4/18/2019 5:14:25 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.433	2057375	984.197
GAS:6-10			26897980	12455.314
GAS:6-12			31072748	11610.760
GAS:7-12			24623180	11614.117
JP4:7-12			24623180	6567.582
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.200	582610	34.324
Benzene	4.700	4.717	4798988	101.504
Toluene	8.517	8.567	29556105	679.298
Ethylbenzene	12.367	12.417	5517132	142.640
m,p-Xylenes	12.600	12.650	24232606	553.496
o-Xylene	13.700	13.750	8347942	211.607
Bromofluorobenzene (PID)	15.383	15.433	27943378	729.509

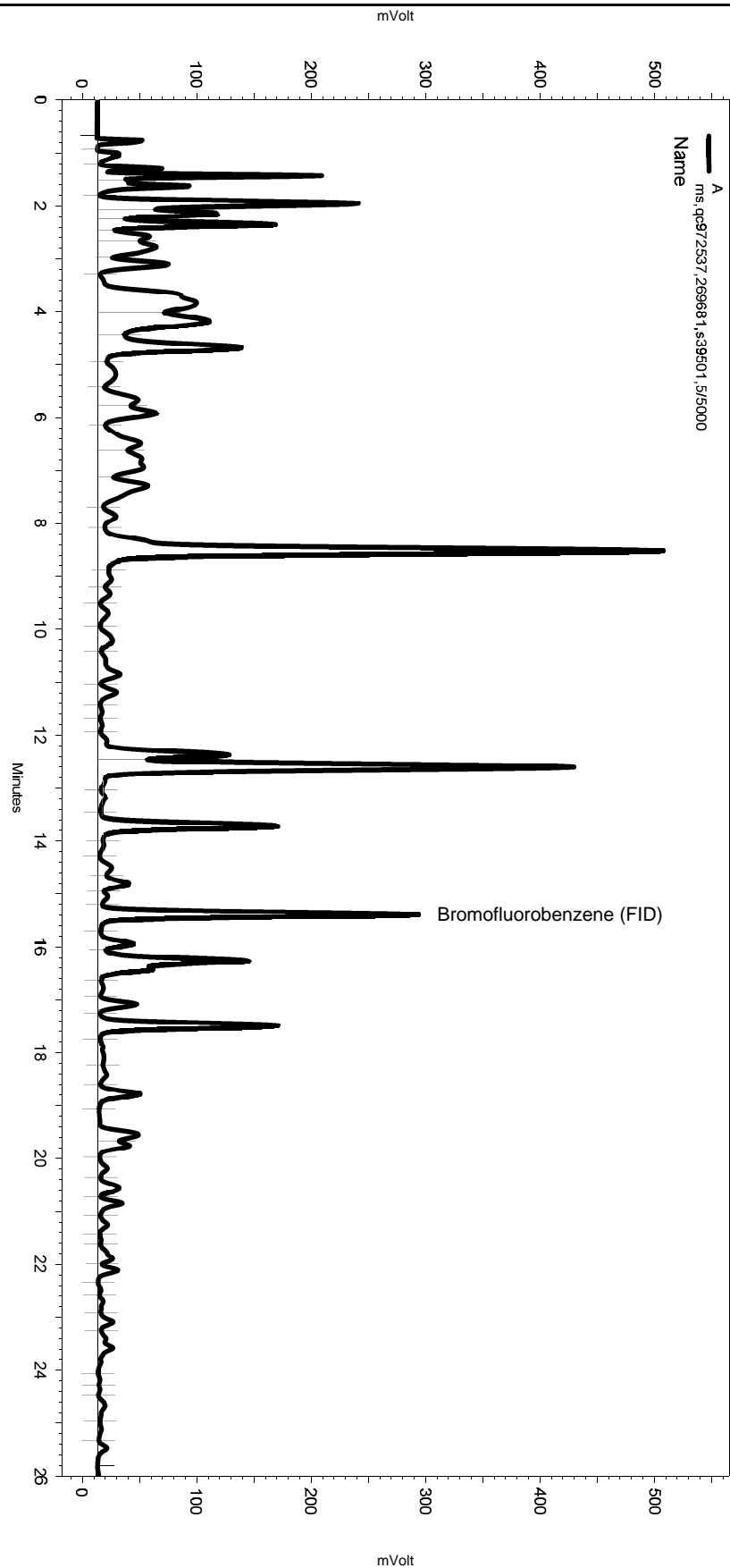
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.033	1433636	99.844
Benzene	3.550	3.550	4092191	102.324
Toluene	6.950	6.983	27954210	747.447
Ethylbenzene	10.599	10.633	4706421	153.503
m,p-Xylenes	10.949	10.999	22951127	590.909
o-Xylene	11.799	11.849	7568665	197.843
Bromofluorobenzene (PID)	12.716	12.749	25666806	751.976

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ms,qc972537,269681,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-012
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 4:45:42 PM
 Analysis Date: 4/18/2019 5:14:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

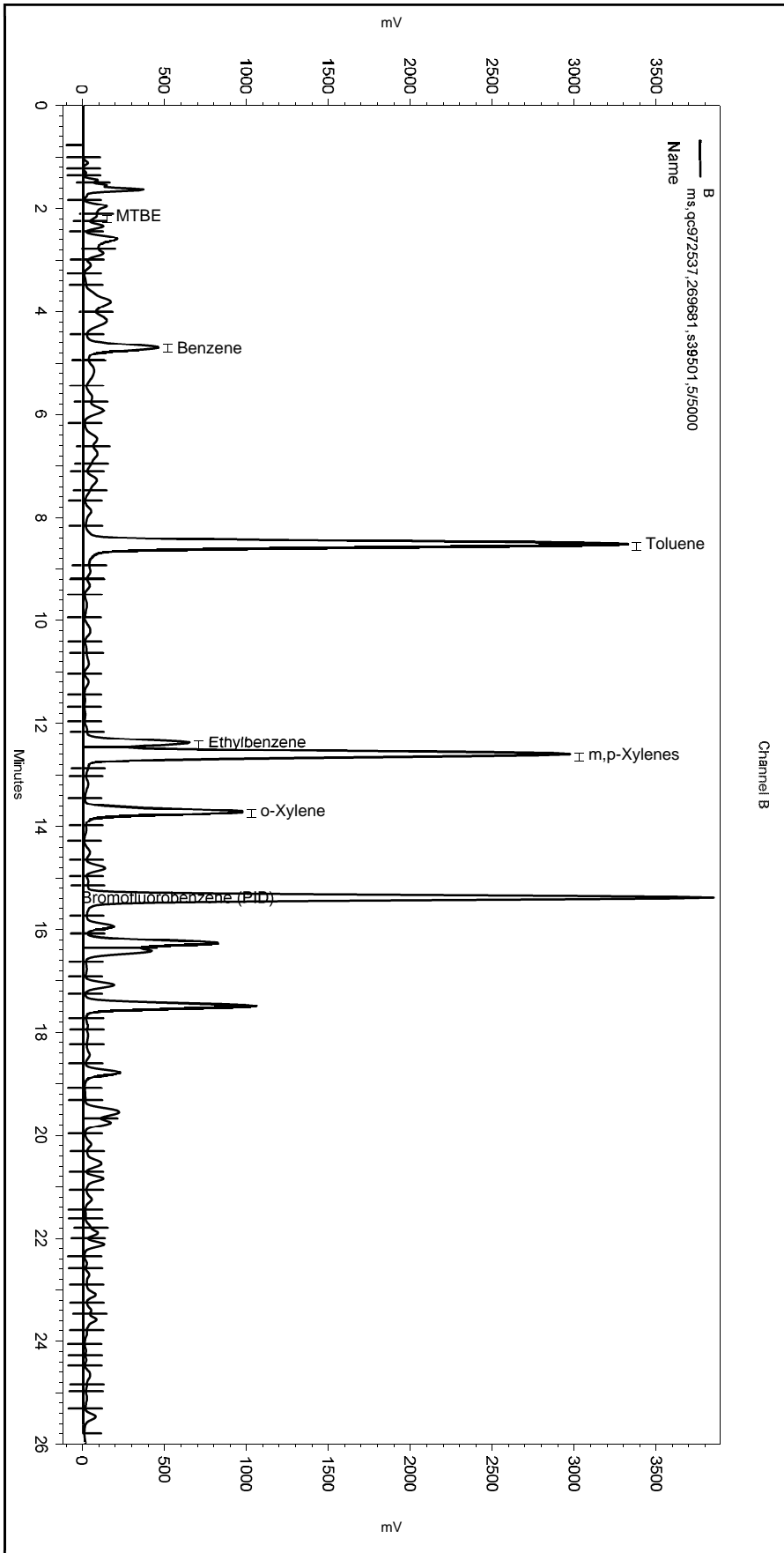
=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-012_2D4D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ms,qc972537,269681,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-012
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 4:45:42 PM
 Analysis Date: 4/18/2019 5:14:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

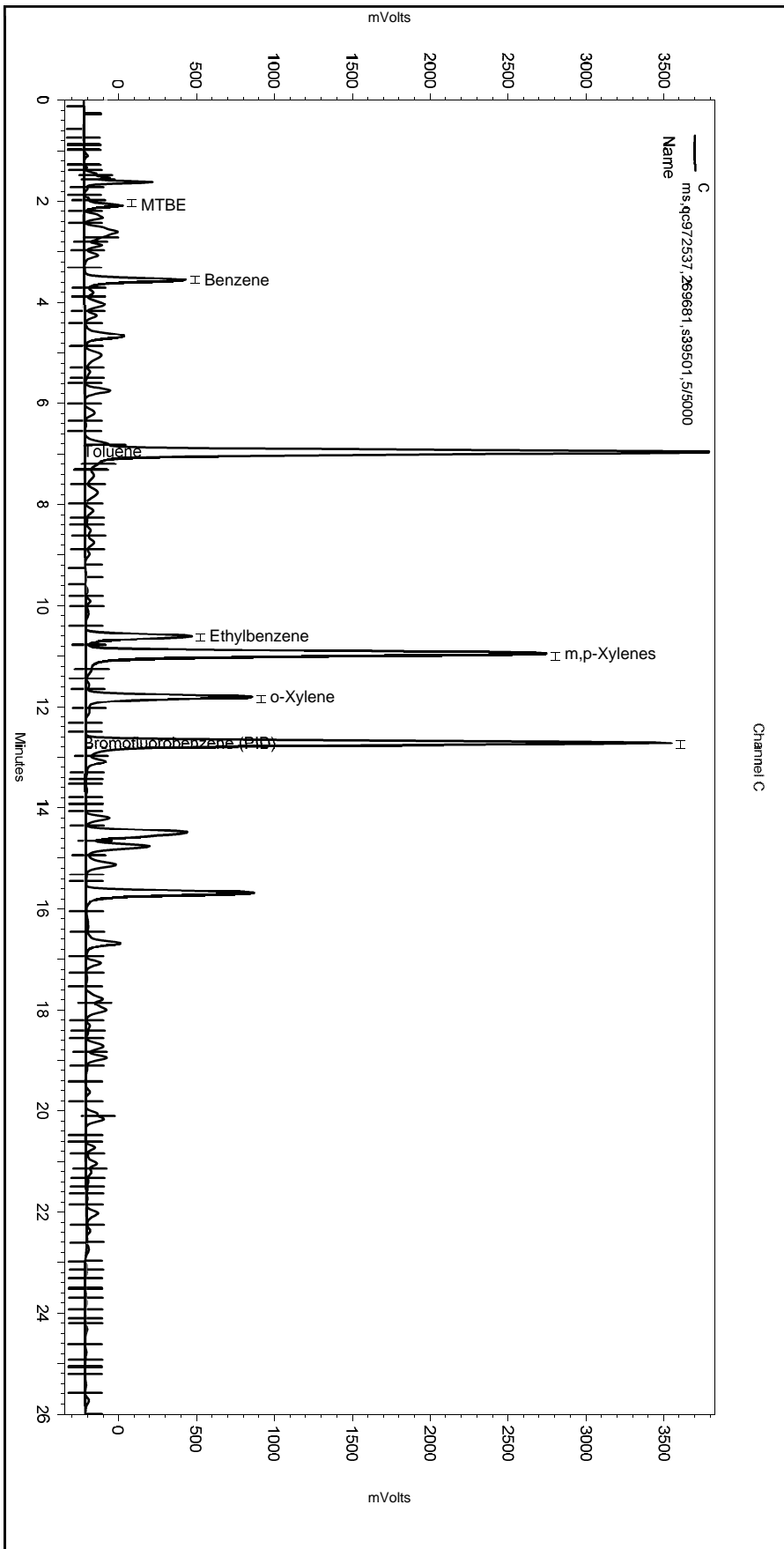
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-012_2D4D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ms,qc972537,269681,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-012
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 4:45:42 PM
 Analysis Date: 4/18/2019 5:14:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

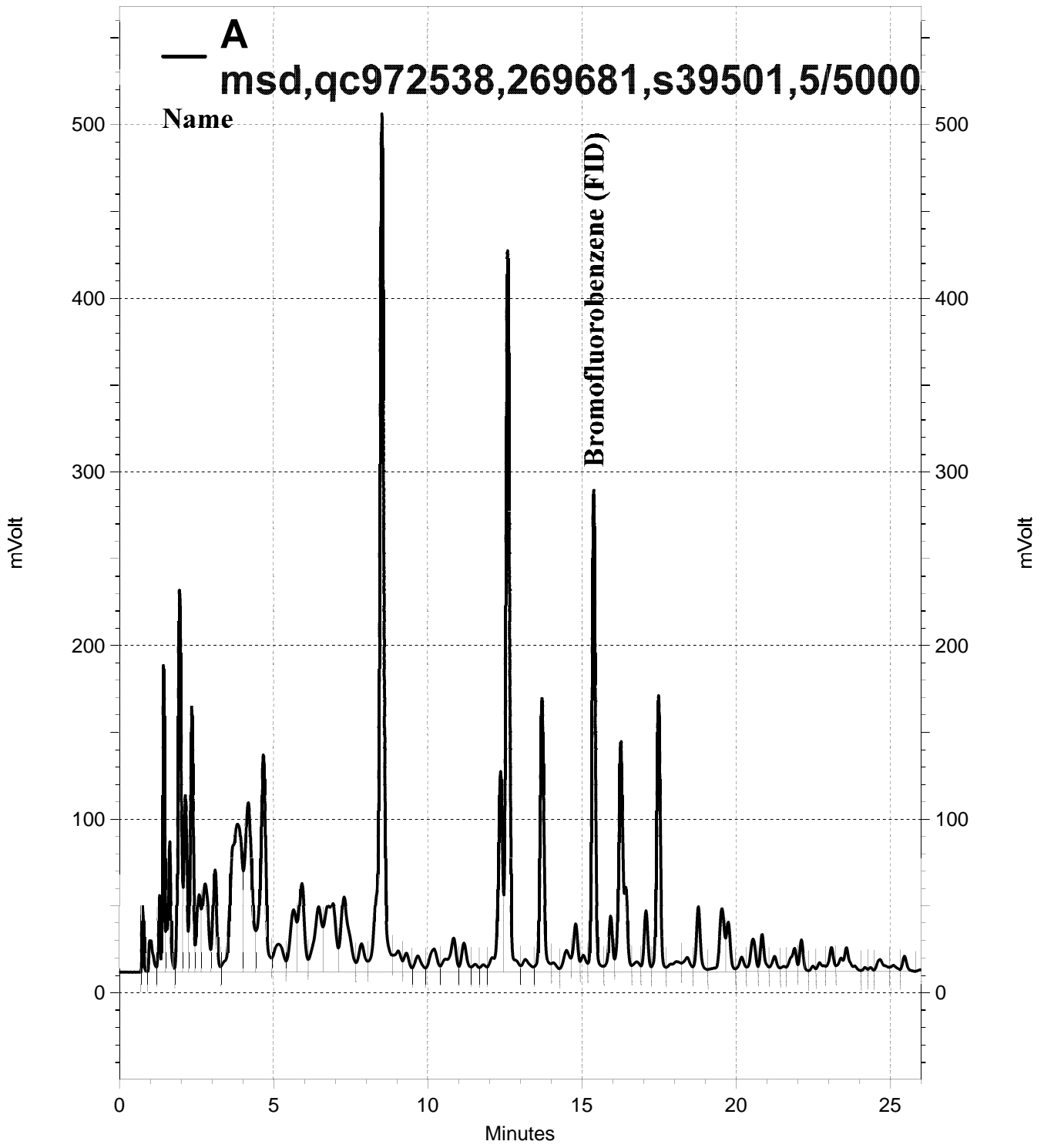
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-012_2D4D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-013, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
Sample Name: msd,qc972538,269681,s39501,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-013
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
Run Date: 4/18/2019 5:24:00 PM
Analysis Date: 4/18/2019 5:52:43 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: A 1.0

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.433	2041695	976.696
GAS:6-10			26632184	12332.235
GAS:6-12			30795176	11507.038
GAS:7-12			24484752	11548.822
JP4:7-12			24484752	6530.659
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.200	557639	32.853
Benzene	4.700	4.717	4682905	99.048
Toluene	8.517	8.567	29439769	676.624
Ethylbenzene	12.367	12.417	5242384	135.537
m,p-Xylenes	12.600	12.650	24408342	557.510
o-Xylene	13.700	13.750	8222897	208.438
Bromofluorobenzene (PID)	15.383	15.433	27596279	720.447

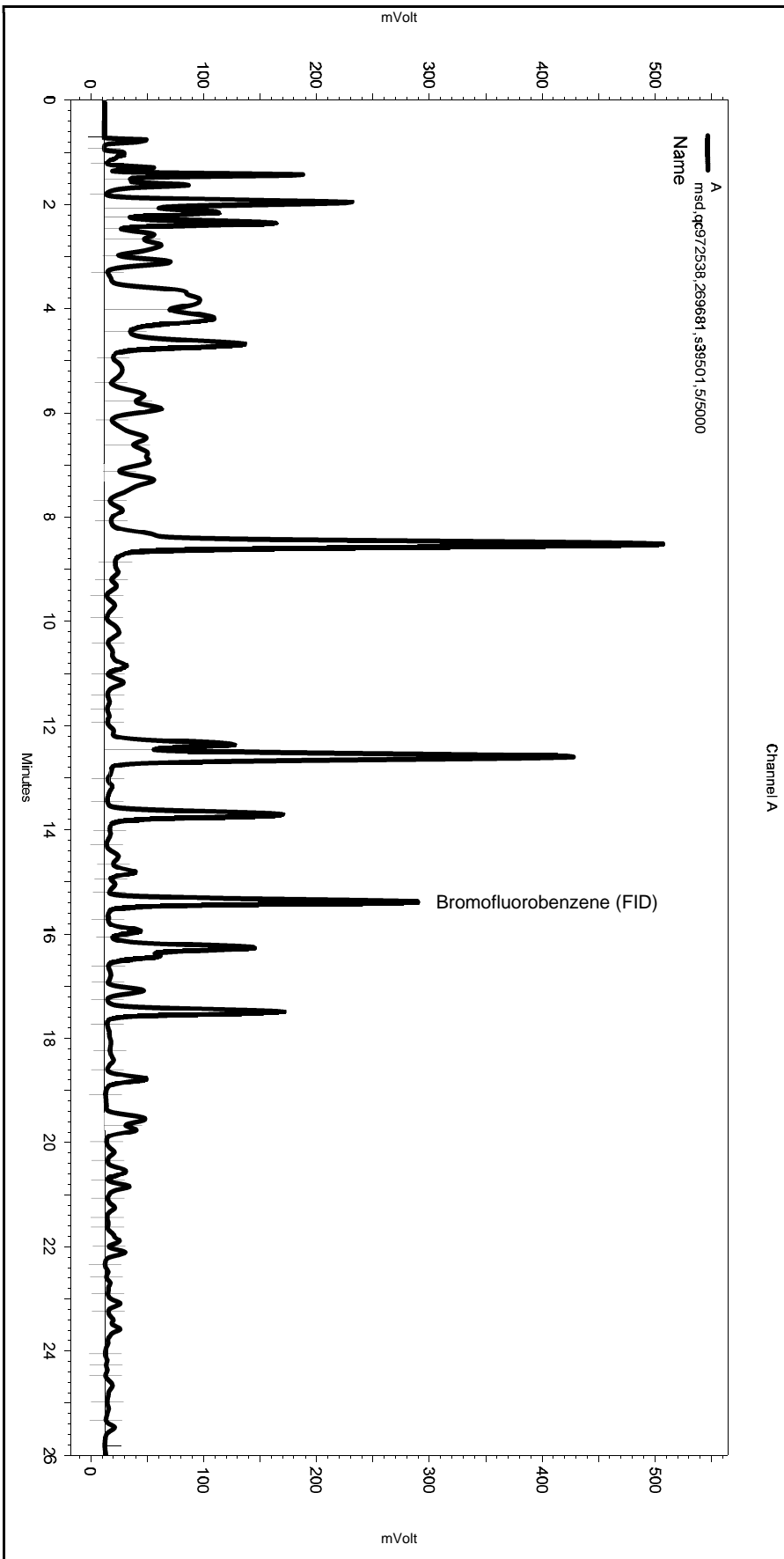
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.033	1374386	95.717
Benzene	3.550	3.550	4049207	101.249
Toluene	6.966	6.983	27960212	747.608
Ethylbenzene	10.599	10.633	4848619	158.141
m,p-Xylenes	10.949	10.999	23137508	595.708
o-Xylene	11.799	11.849	7650728	199.989
Bromofluorobenzene (PID)	12.699	12.749	25533223	748.062

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: msd,qc972538,269681,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-013
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 5:24:00 PM
 Analysis Date: 4/18/2019 5:52:43 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

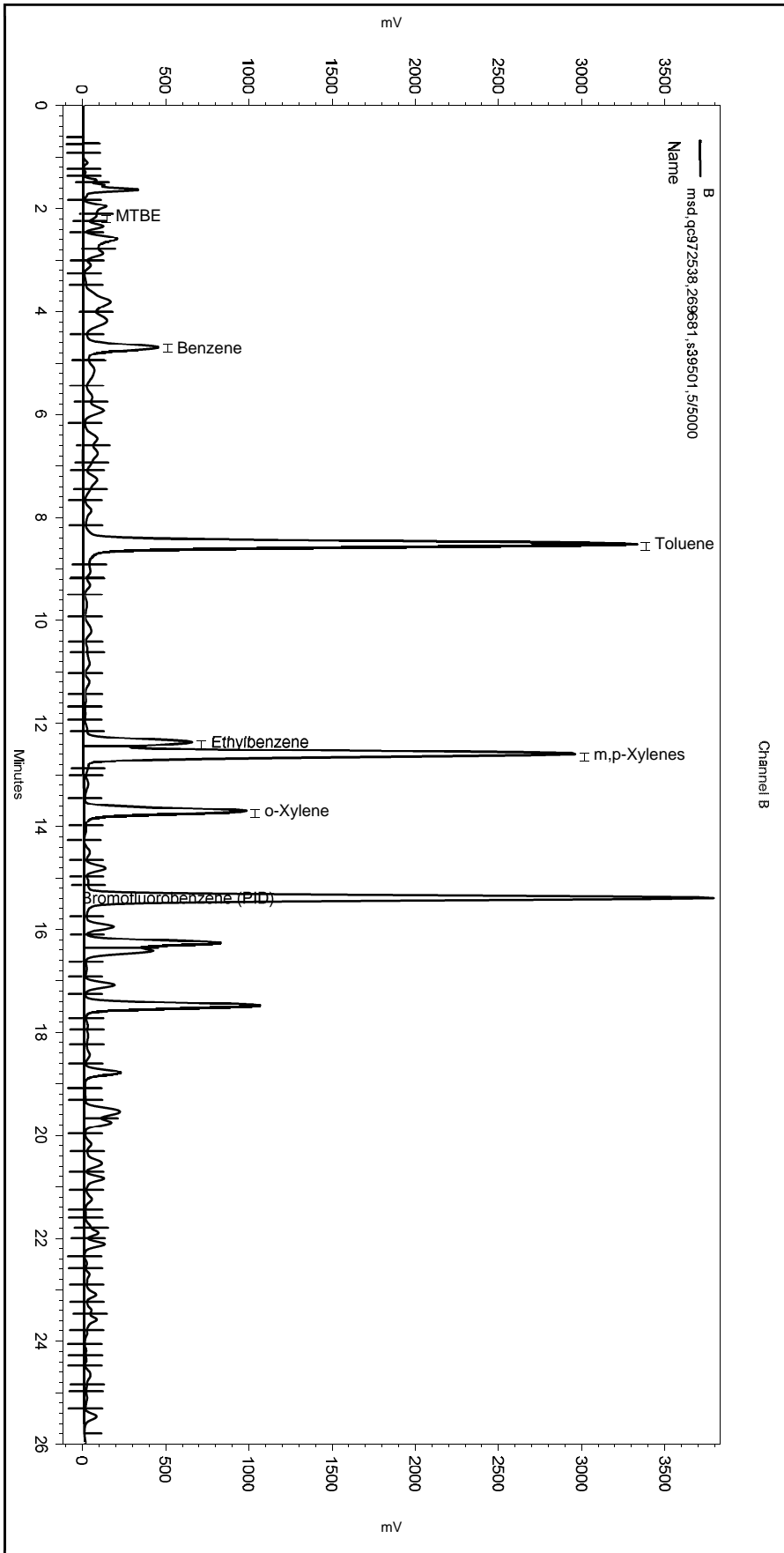
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-013_2D4E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: msd,qc972538,269681,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-013
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 5:24:00 PM
 Analysis Date: 4/18/2019 5:52:43 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

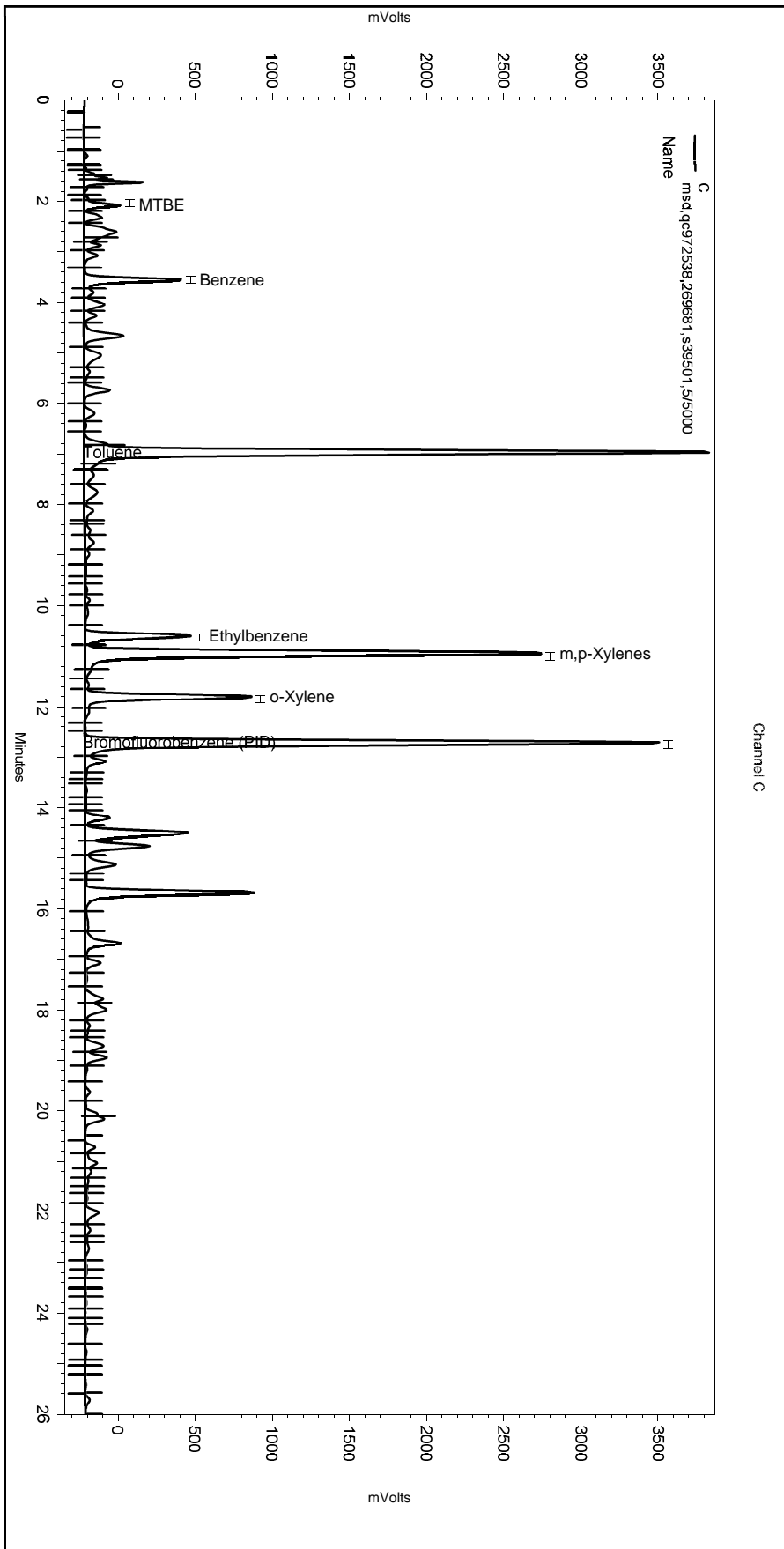
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-013_2D4E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: msd,qc972538,269681,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-013
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 5:24:00 PM
 Analysis Date: 4/18/2019 5:52:43 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: A 1.0



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-013_2D4E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 309066 GCVOA Water: EPA 8021B

Inst : GC05
 Calnum : 319127265001
 Units : ng

Name : MBTXE 088
 Date : 30-MAR-2019 04:43
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	088_026	319127265026	BTXE_1	30-MAR-2019 04:43	S39199 (1000X), S39864 (5000X)
L2	088_027	319127265027	MBTXE_2	30-MAR-2019 05:20	S39200 (1250X), S39864 (5000X)
L3	088_028	319127265028	MBTXE_3	30-MAR-2019 05:58	S39200 (500X), S39864 (5000X)
L4	088_029	319127265029	MBTXE_4	30-MAR-2019 06:36	S39200 (125X), S39864 (5000X)
L5	088_030	319127265030	MBTXE_5	30-MAR-2019 07:13	S39082 (1000X), S39864 (5000X)
L6	088_031	319127265031	MBTXE_6	30-MAR-2019 07:51	S39082 (500X), S39864 (5000X)
L7	088_032	319127265032	MBTXE_7	30-MAR-2019 08:28	S39082 (250X), S39864 (5000X)
L8	088_033	319127265033	MTBE_7	30-MAR-2019 09:06	S38586 (500X), S39864 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Benzene	B	27338	27613	30103	34448	34035	32935	32533		AVRG		3.20E-5		31287	9	0.995	20	
Toluene	B	26232	26006	27626	31405	30641	29466	29046		AVRG		3.49E-5		28632	7	0.995	20	
Ethylbenzene	B	22856	21961	23685	27059	26603	25514	24852		AVRG		4.06E-5		24647	8	0.995	20	
m,p-Xylenes	B	26649	27222	30206	32336	30843	29125	28672		AVRG		3.41E-5		29293	7	0.995	20	
o-Xylene	B	24241	22888	24919	27213	25995	24565	24106		AVRG		4.02E-5		24847	6	0.995	20	
Bromofluorobenzene (PID)	B	18889	18725	18701	19117	19508	18443	18212	18218	AVRG		5.34E-5		18727	2	0.995	20	
Benzene	C	2914.4	3058.8	3180.2	3528.3	3506.1	3372.3	3230.7		AVRG		3.07E-4		3255.8	7	0.995	20	
Toluene	C	2681.2	2723.5	2790.0	3154.6	3187.7	3084.7	3069.6		AVRG		3.38E-4		2955.9	7	0.995	20	
Ethylbenzene	C	2170.4	2211.1	2271.9	2612.7	2721.8	2640.6	2632.7		AVRG		4.06E-4		2465.9	10	0.995	20	
m,p-Xylenes	C	2740.4	2604.8	2671.9	3061.8	3185.1	3079.7	3094.2		AVRG		3.43E-4		2919.7	8	0.995	20	
o-Xylene	C	2652.0	2226.4	2321.6	2622.4	2660.0	2576.8	2586.7		AVRG		3.97E-4		2520.8	7	0.995	20	
Bromofluorobenzene (PID)	C	1866.5	1835.5	1821.3	1863.8	1915.5	1846.7	1906.8	1866.1	AVRG		5.36E-4		1865.3	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Benzene	B	2.5000	-13	10.000	-12	25.000	-4	100.00	10	500.00	9	1000.0	5	2000.0	4		
Toluene	B	2.5000	-8	10.000	-9	25.000	-4	100.00	10	500.00	7	1000.0	3	2000.0	1		
Ethylbenzene	B	2.5000	-7	10.000	-11	25.000	-4	100.00	10	500.00	8	1000.0	4	2000.0	1		
m,p-Xylenes	B	2.5000	-9	10.000	-7	25.000	3	100.00	10	500.00	5	1000.0	-1	2000.0	-2		
o-Xylene	B	2.5000	-2	10.000	-8	25.000	0	100.00	10	500.00	5	1000.0	-1	2000.0	-3		
Bromofluorobenzene (PID)	B	900.00	1	900.00	0	900.00	0	900.00	2	900.00	4	900.00	-2	900.00	-3	900.00	-3
Benzene	C	2.5000	-10	10.000	-6	25.000	-2	100.00	8	500.00	8	1000.0	4	2000.0	-1		
Toluene	C	2.5000	-9	10.000	-8	25.000	-6	100.00	7	500.00	8	1000.0	4	2000.0	4		
Ethylbenzene	C	2.5000	-12	10.000	-10	25.000	-8	100.00	6	500.00	10	1000.0	7	2000.0	7		
m,p-Xylenes	C	2.5000	-6	10.000	-11	25.000	-8	100.00	5	500.00	9	1000.0	5	2000.0	6		
o-Xylene	C	2.5000	5	10.000	-12	25.000	-8	100.00	4	500.00	6	1000.0	2	2000.0	3		
Bromofluorobenzene (PID)	C	900.00	0	900.00	-2	900.00	-2	900.00	0	900.00	3	900.00	-1	900.00	2	900.00	0

Analyst: ALE

Date: 04/01/19

Reviewer: EAH

Date: 04/01/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 309066 GCVOA Water
EPA 8021B

Inst : GC05
Calnum : 319127265001

Name : MBTXE 088
Cal Date : 30-MAR-2019

ICV 319127265036 (088_036 30-MAR-2019) stds: S39736 (1000X), S39864 (5000X)

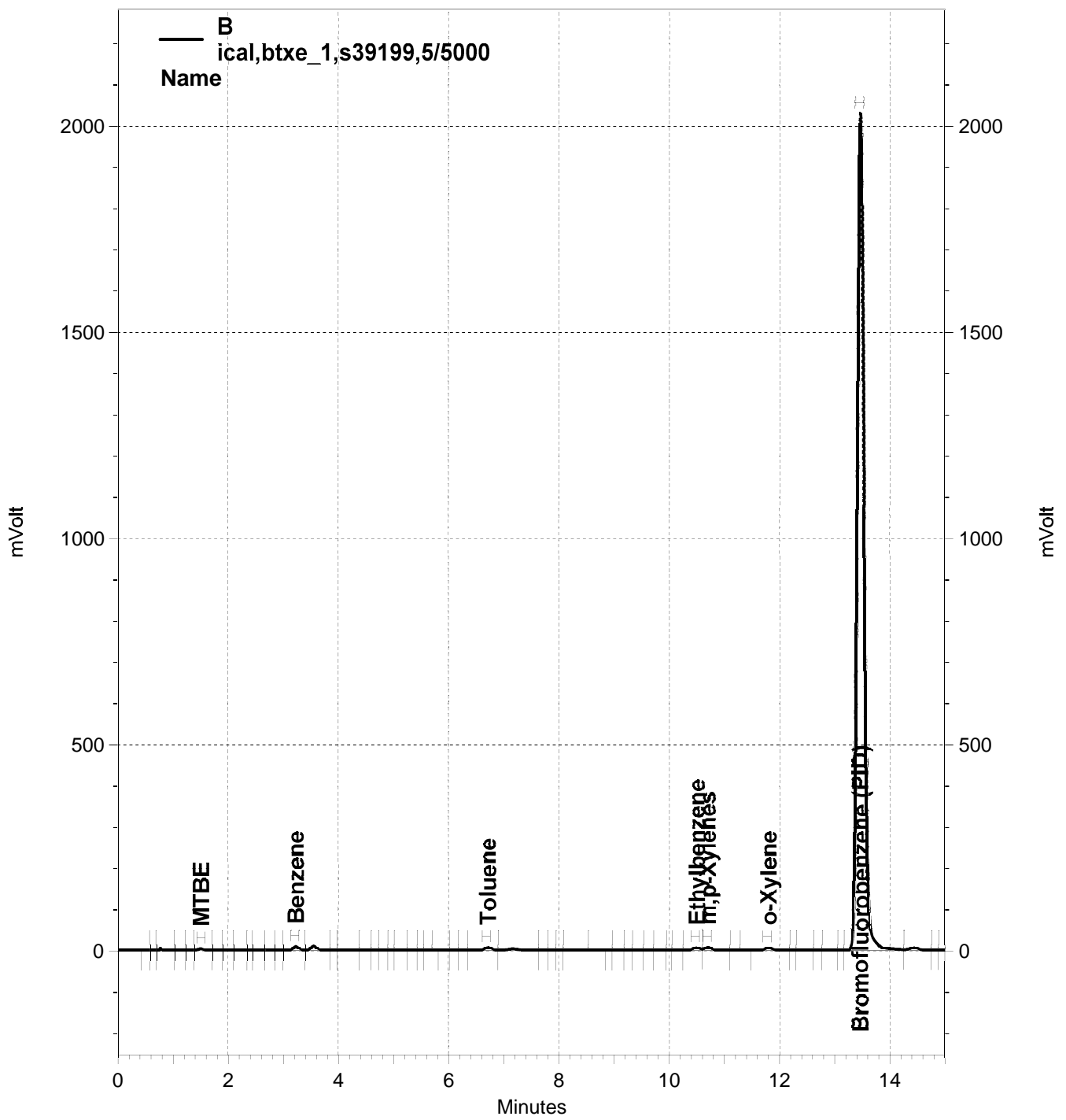
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Benzene	B	100.0	96.20	ng	-4	15	
Toluene	B	100.0	98.58	ng	-1	15	
Ethylbenzene	B	100.0	92.93	ng	-7	15	
m,p-Xylenes	B	200.0	207.4	ng	4	15	
o-Xylene	B	100.0	100.8	ng	1	15	
Benzene	C	100.0	100.0	ng	0	15	
Toluene	C	100.0	100.0	ng	0	15	
Ethylbenzene	C	100.0	100.6	ng	1	15	
m,p-Xylenes	C	200.0	200.4	ng	0	15	
o-Xylene	C	100.0	95.87	ng	-4	15	

Analyst: ALE

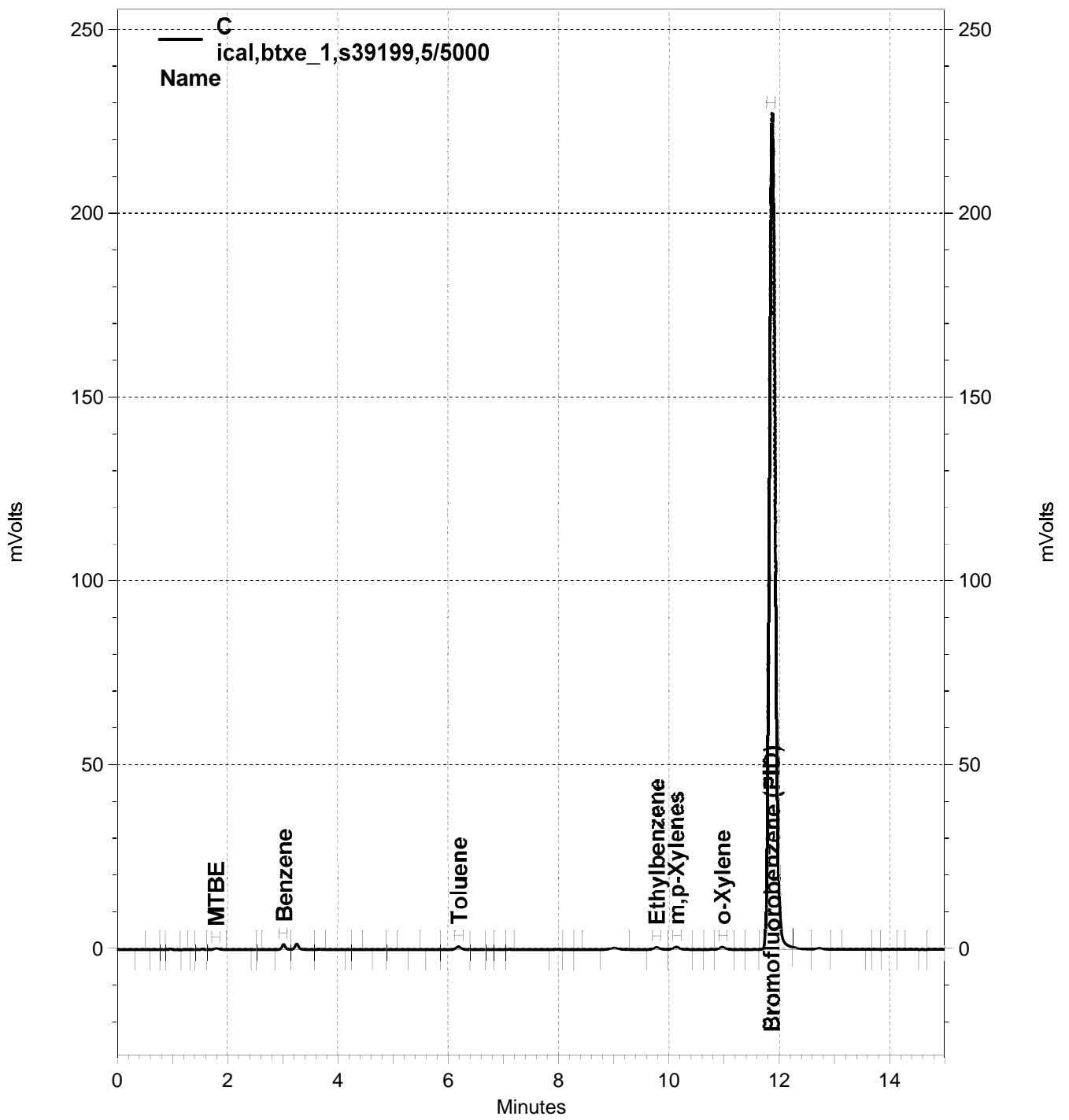
Date: 04/01/19

Reviewer: EAH

Date: 04/01/19



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-026, B



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-026, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: ical,btxe_1,s39199,5/5000	Run Date: 3/30/2019 4:43:18 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-026	Analysis Date: 4/1/2019 11:36:54 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.467	13.450	1392698	0.000 CAL
GAS:6-10			528854	0.000 CAL
GAS:6-12			746118	0.000 CAL
GAS:7-12			702373	0.000 CAL
JP4:7-12			702373	0.000 CAL
AVGAS:6-10			528854	0.000 CAL
AVGAS:7-12			702373	0.000 CAL

BTXE Instrument Results
Channel B: RTX-502.2 PID

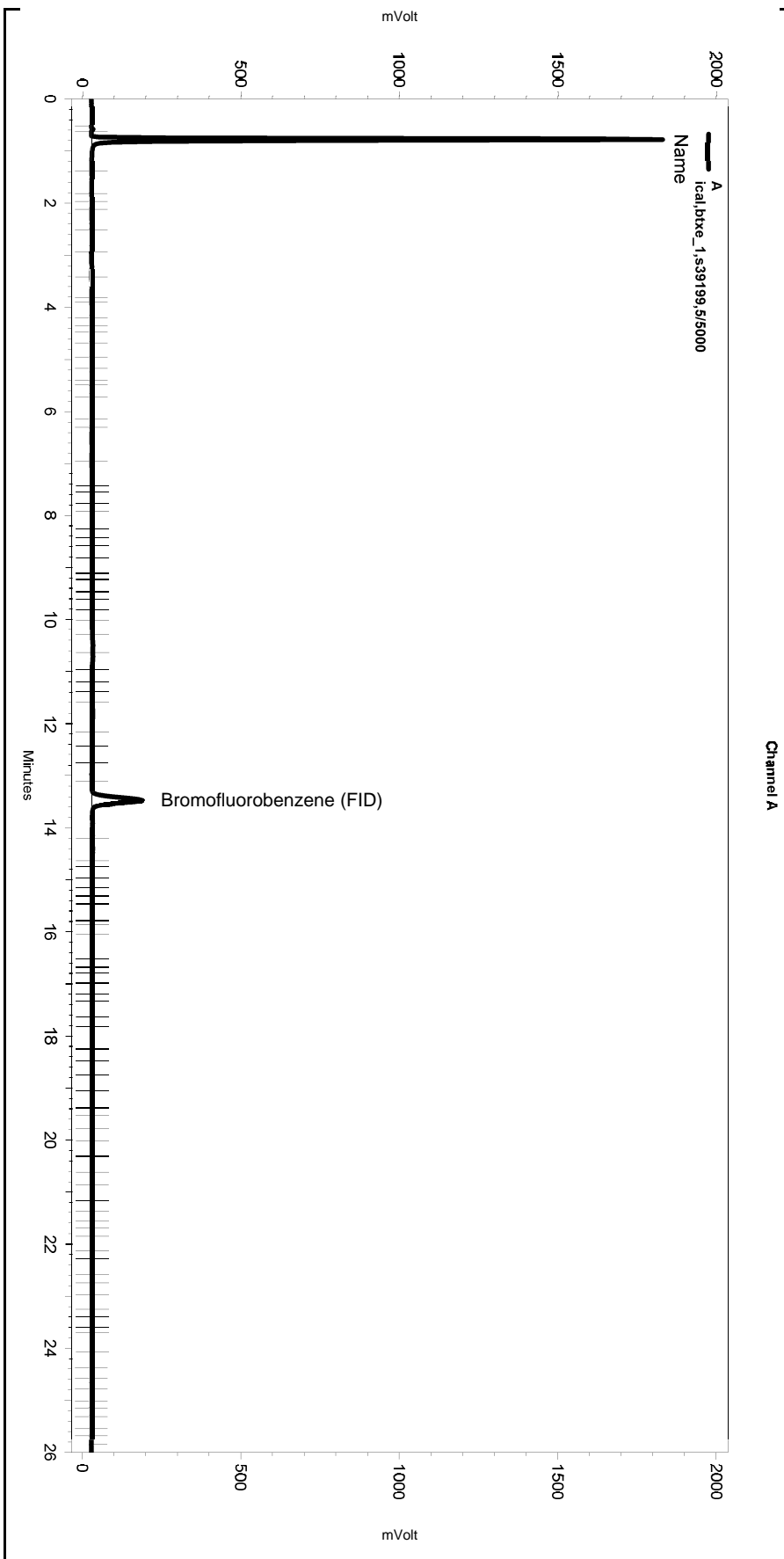
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.517	1.517	32027	0.000 CAL
Benzene	3.233	3.217	68344	2.500 CAL
Toluene	6.717	6.683	65579	2.500 CAL
Ethylbenzene	10.500	10.467	57141	2.500 CAL
m,p-Xylenes	10.700	10.683	66622	2.500 CAL
o-Xylene	11.800	11.767	60602	2.500 CAL
Bromofluorobenzene (PID)	13.467	13.450	17000003	900.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	2597	0.000 CAL
Benzene	3.033	3.016	7286	2.500 CAL
Toluene	6.200	6.200	6703	2.500 CAL
Ethylbenzene	9.783	9.783	5426	2.500 CAL
m,p-Xylenes	10.133	10.149	6851	2.500 CAL
o-Xylene	10.966	10.983	6630	2.500 CAL
Bromofluorobenzene (PID)	11.866	11.849	1679879	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,btxe_1,s39199,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-026
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 4:43:18 AM
 Analysis Date: 4/1/2019 11:36:54 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled		Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width		0	0	0.2
Yes	Threshold		0	0	50

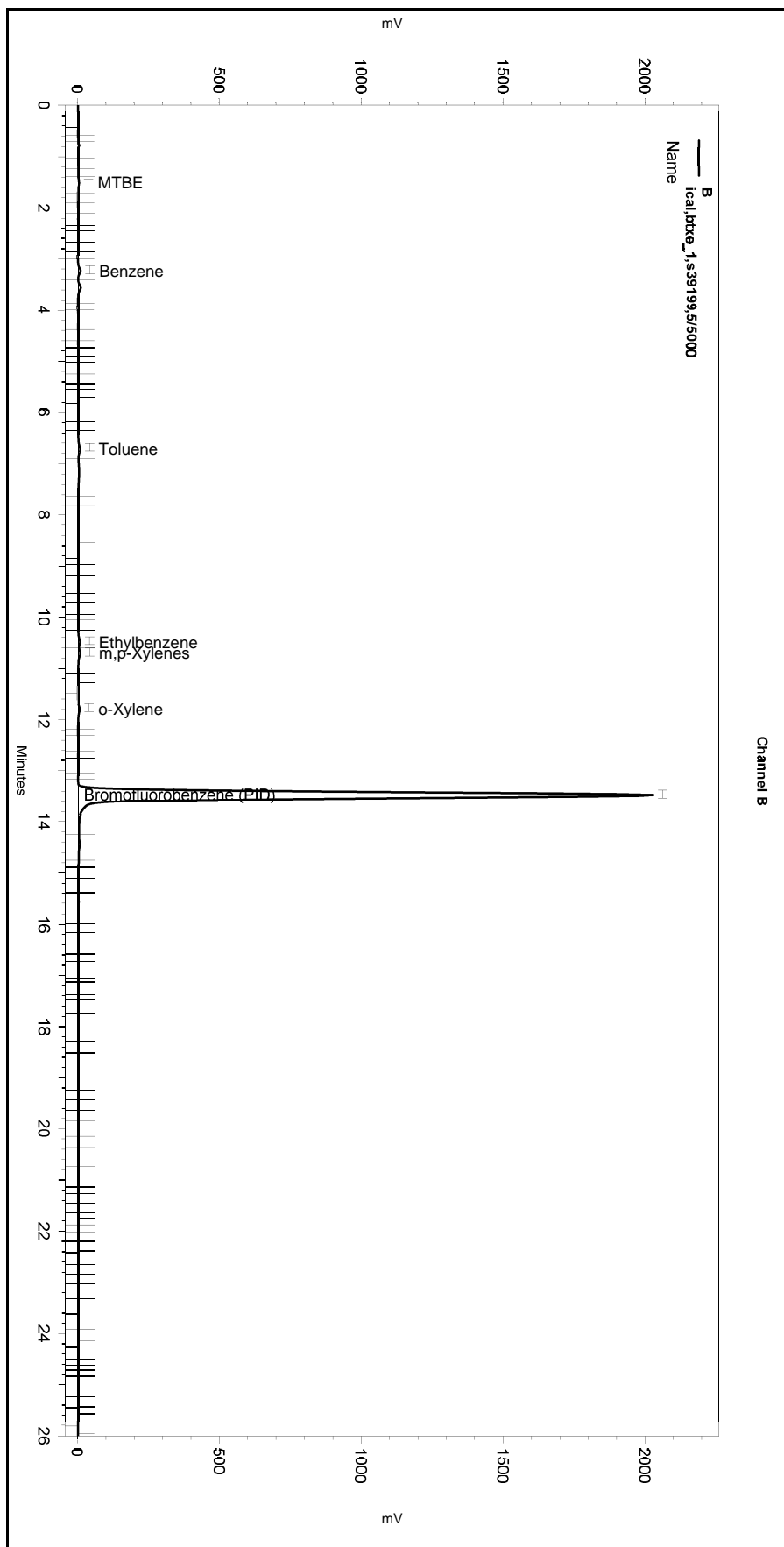
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-026

Enabled		Event Type	Start (Minutes)	Stop (Minutes)	Value
None					

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,btxe_1,s39199,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-026
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 4:43:18 AM
 Analysis Date: 4/1/2019 11:36:54 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

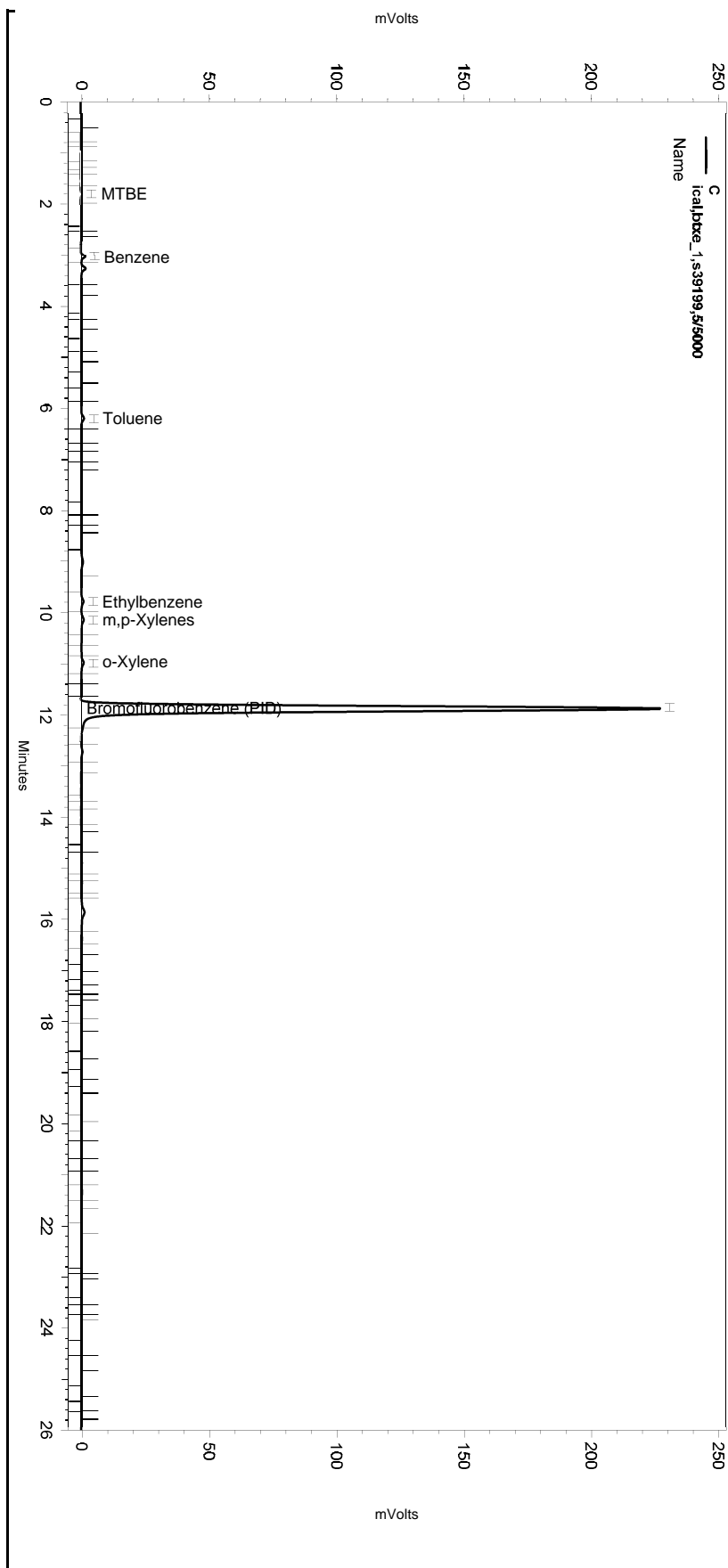
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,btxe_1,s39199,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-026
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 4:43:18 AM
 Analysis Date: 4/1/2019 11:36:54 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

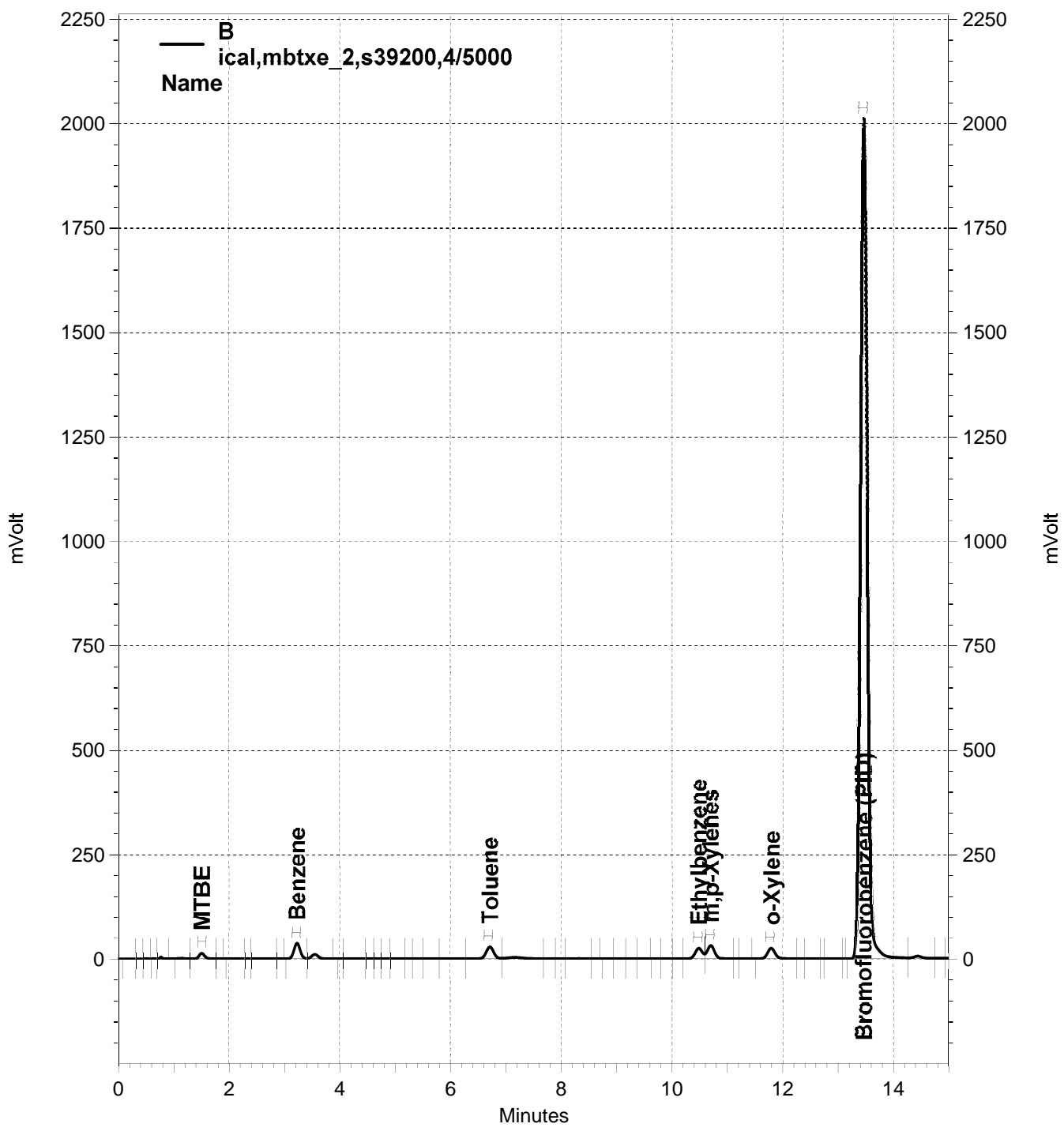
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

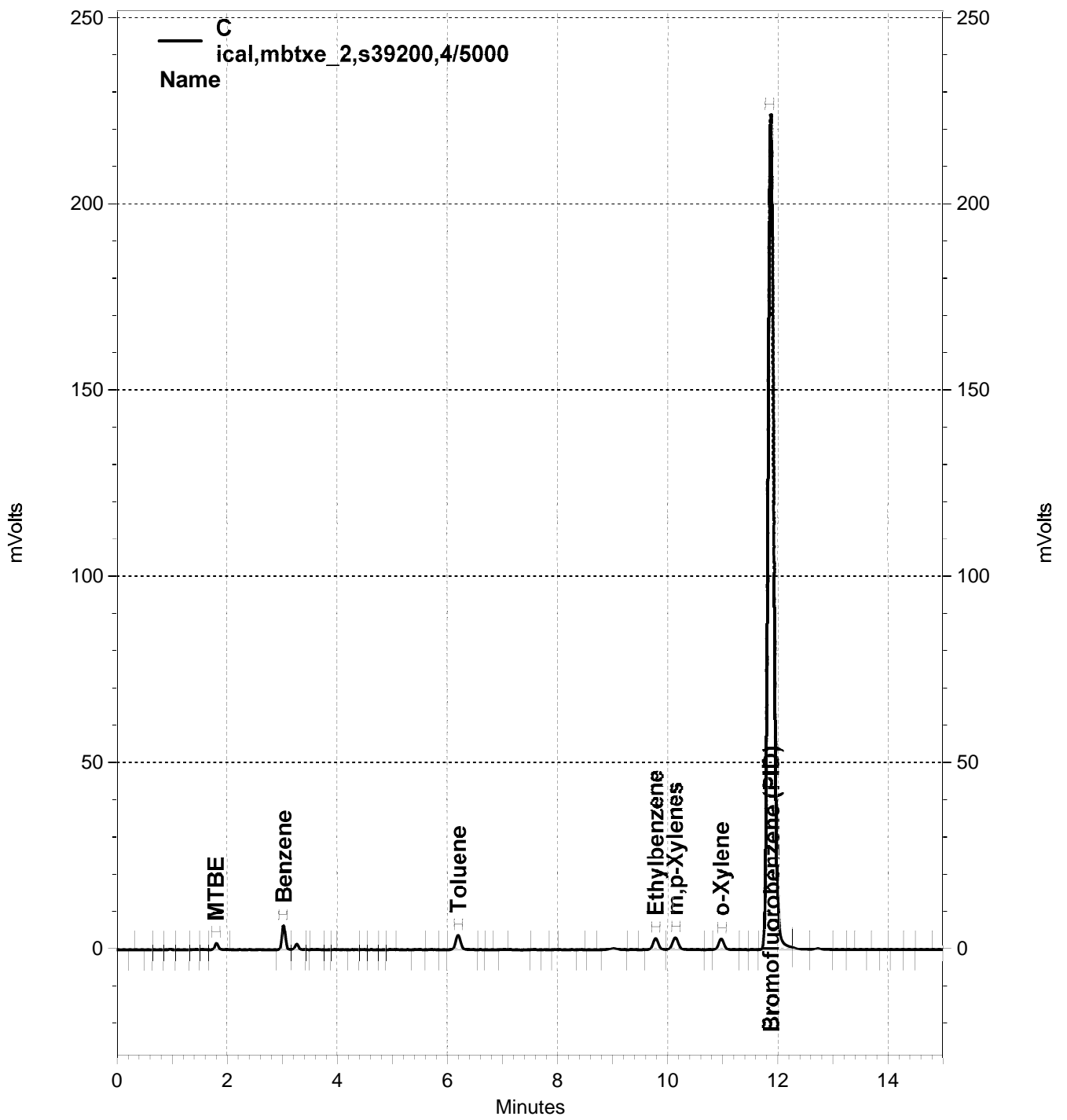
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-027, B



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-027, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: ical,mbtxe_2,s39200,4/5000	Run Date: 3/30/2019 5:20:51 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-027	Analysis Date: 4/1/2019 11:36:58 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.467	13.450	1351732	0.000 CAL
GAS:6-10			626908	0.000 CAL
GAS:6-12			844762	0.000 CAL
GAS:7-12			783437	0.000 CAL
JP4:7-12			783437	0.000 CAL
AVGAS:6-10			626908	0.000 CAL
AVGAS:7-12			783437	0.000 CAL

BTXE Instrument Results
Channel B: RTX-502.2 PID

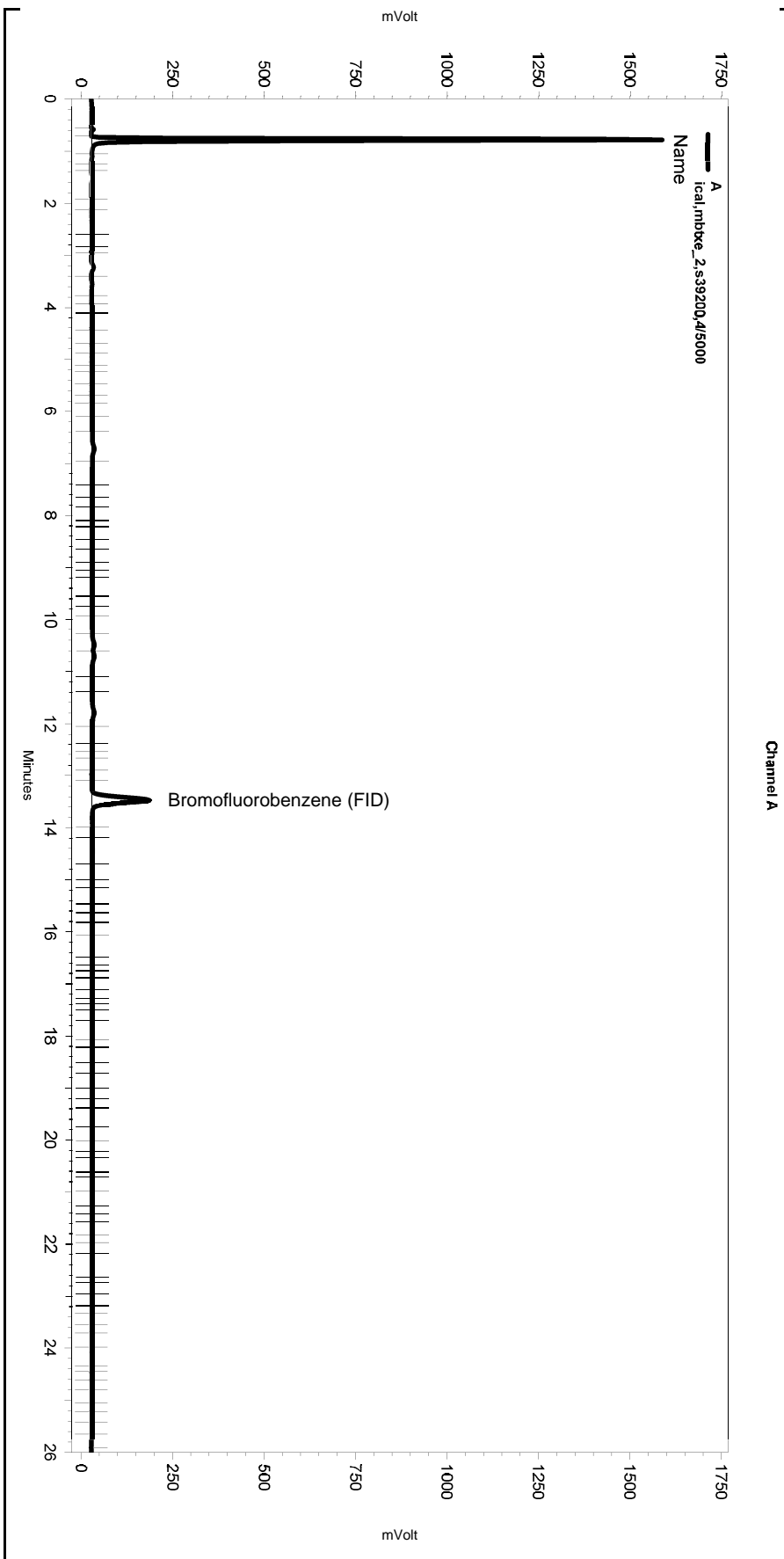
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.517	1.517	87044	10.000 CAL
Benzene	3.233	3.217	276129	10.000 CAL
Toluene	6.717	6.683	260059	10.000 CAL
Ethylbenzene	10.483	10.467	219611	10.000 CAL
m,p-Xylenes	10.700	10.683	272224	10.000 CAL
o-Xylene	11.800	11.767	228884	10.000 CAL
Bromofluorobenzene (PID)	13.467	13.450	16852927	900.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	9383	10.000 CAL
Benzene	3.033	3.016	30588	10.000 CAL
Toluene	6.200	6.200	27235	10.000 CAL
Ethylbenzene	9.783	9.783	22111	10.000 CAL
m,p-Xylenes	10.133	10.149	26048	10.000 CAL
o-Xylene	10.966	10.983	22264	10.000 CAL
Bromofluorobenzene (PID)	11.883	11.849	1651933	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_2,s39200,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-027
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lms2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 5:20:51 AM
 Analysis Date: 4/1/2019 11:36:58 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

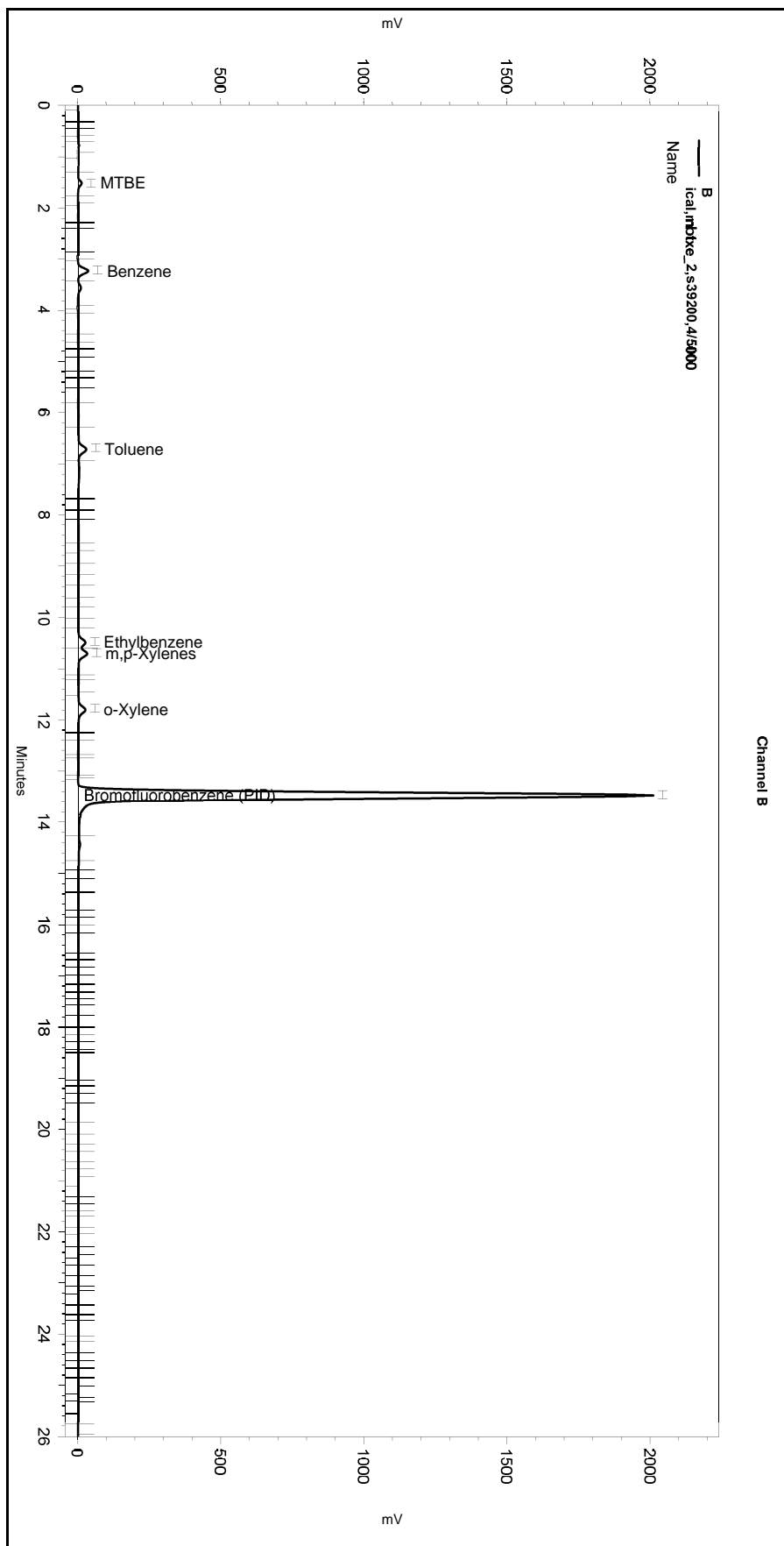
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_2,s39200,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-027
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 5:20:51 AM
 Analysis Date: 4/1/2019 11:36:58 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

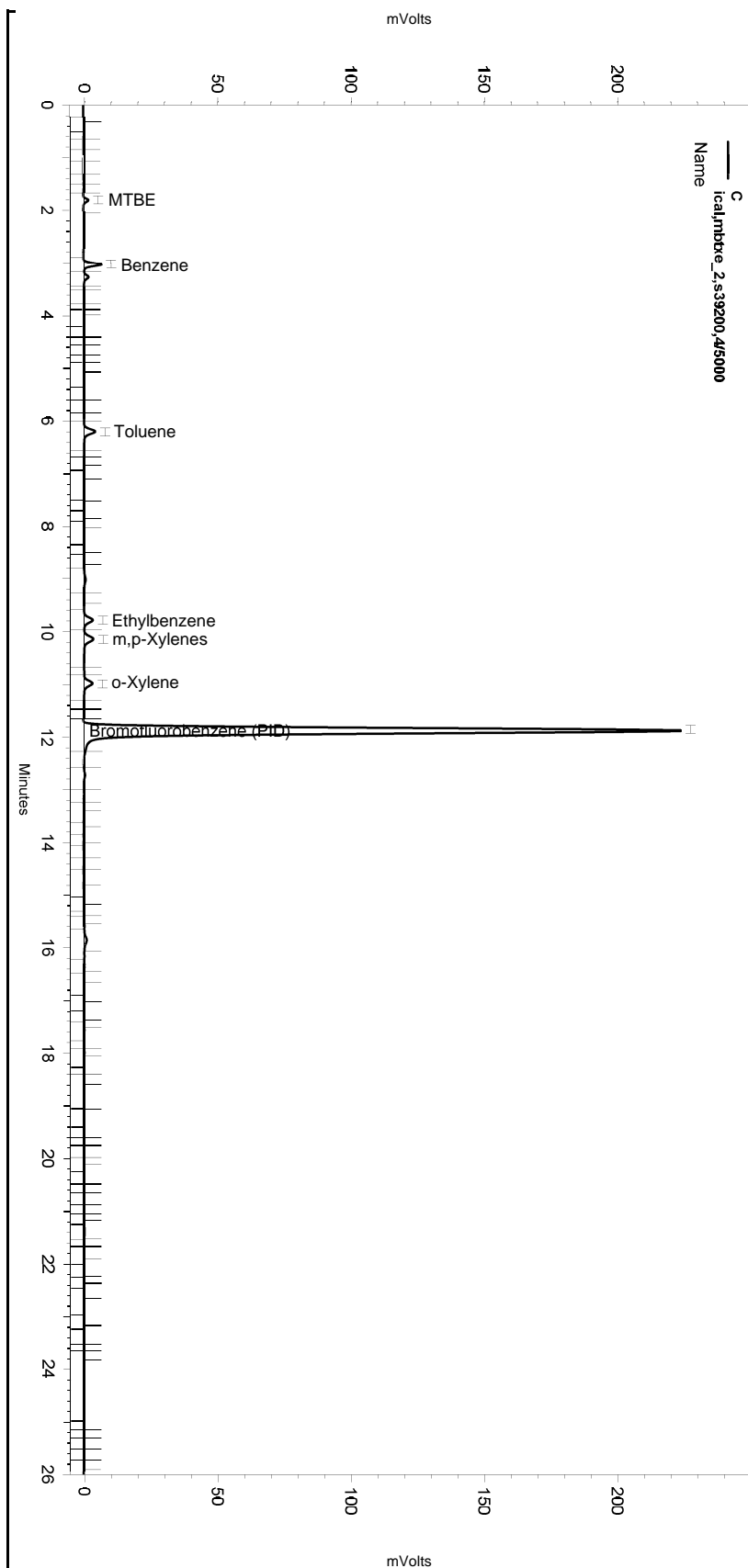
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_2,s39200,4/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-027
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lms2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 5:20:51 AM
 Analysis Date: 4/1/2019 11:36:58 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

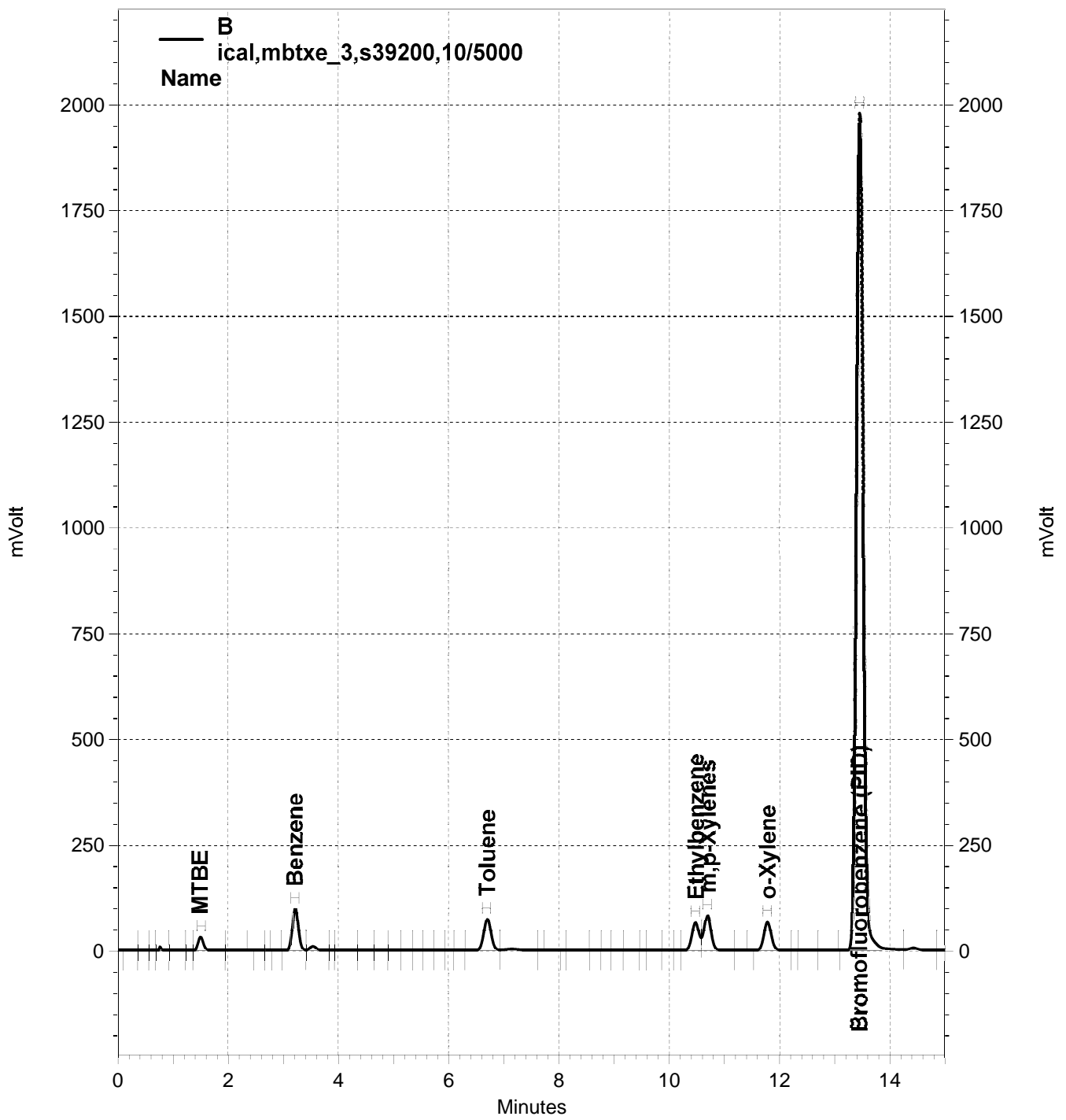
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

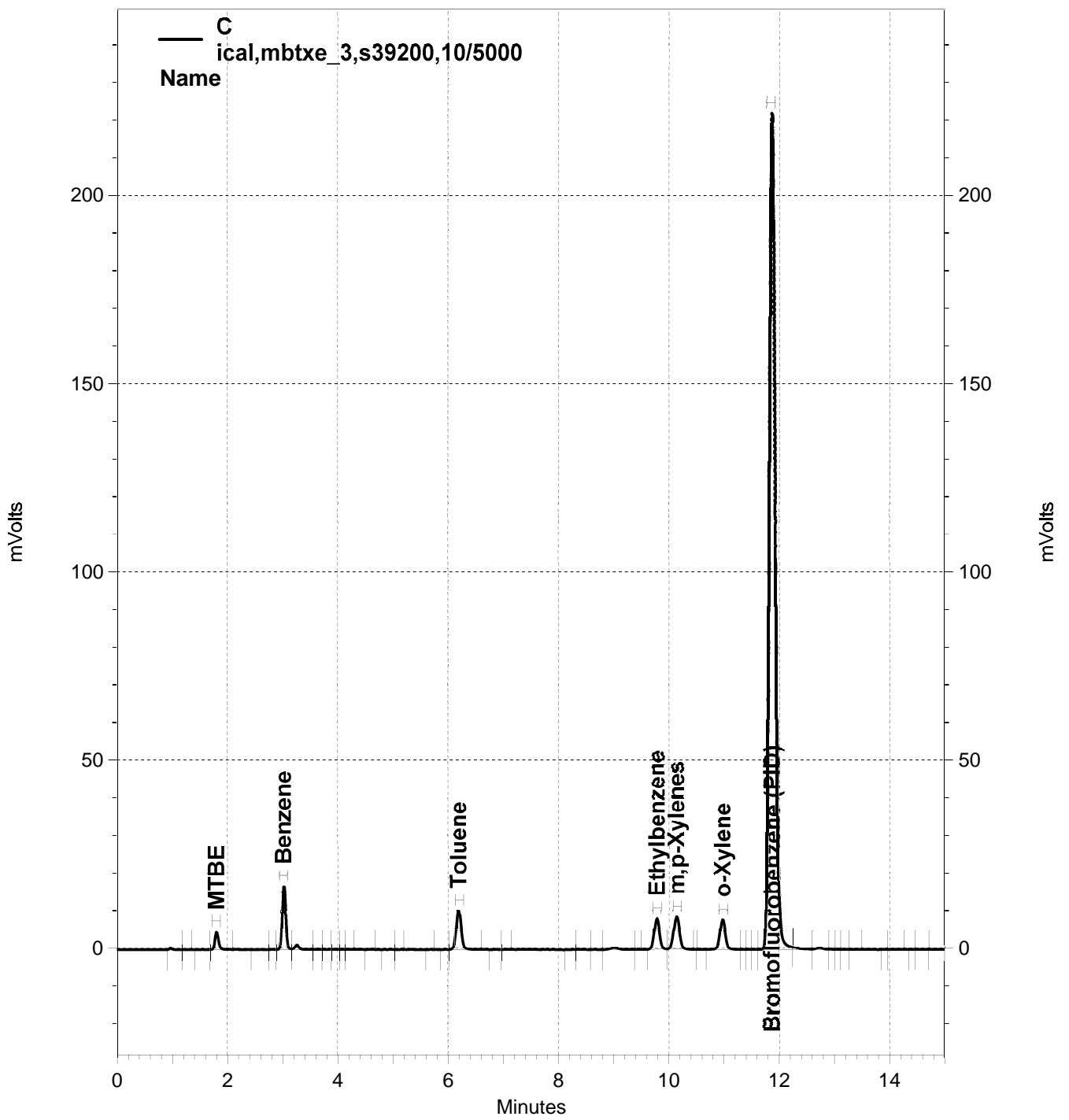
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-028, B



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-028, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: ical,mbtxe_3,s39200,10/5000	Run Date: 3/30/2019 5:58:28 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-028	Analysis Date: 4/1/2019 11:37:02 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.450	13.450	1338292	0.000 CAL
GAS:6-10			895646	0.000 CAL
GAS:6-12			1006109	0.000 CAL
GAS:7-12			928327	0.000 CAL
JP4:7-12			928327	0.000 CAL
AVGAS:6-10			895646	0.000 CAL
AVGAS:7-12			928327	0.000 CAL

BTXE Instrument Results
Channel B: RTX-502.2 PID

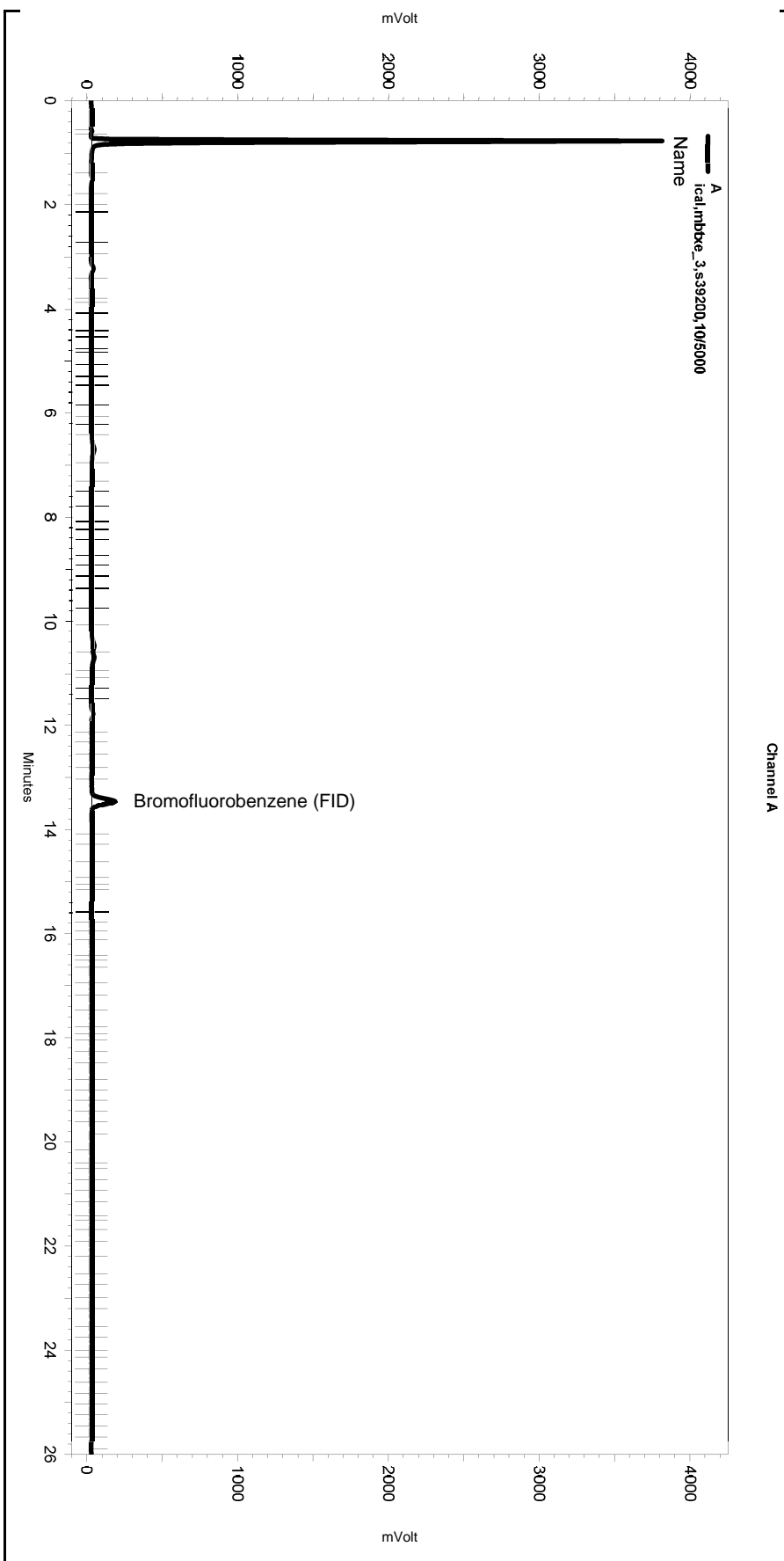
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.500	1.517	216194	25.000 CAL
Benzene	3.217	3.217	752587	25.000 CAL
Toluene	6.700	6.683	690648	25.000 CAL
Ethylbenzene	10.483	10.467	592129	25.000 CAL
m,p-Xylenes	10.700	10.683	755153	25.000 CAL
o-Xylene	11.783	11.767	622973	25.000 CAL
Bromofluorobenzene (PID)	13.450	13.450	16830548	900.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	22872	25.000 CAL
Benzene	3.016	3.016	79506	25.000 CAL
Toluene	6.183	6.200	69750	25.000 CAL
Ethylbenzene	9.783	9.783	56797	25.000 CAL
m,p-Xylenes	10.133	10.149	66797	25.000 CAL
o-Xylene	10.966	10.983	58040	25.000 CAL
Bromofluorobenzene (PID)	11.866	11.849	1639153	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_3,s39200,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-028
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 5:58:28 AM
 Analysis Date: 4/1/2019 11:37:02 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled		Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width		0	0	0.2
Yes	Threshold		0	0	50

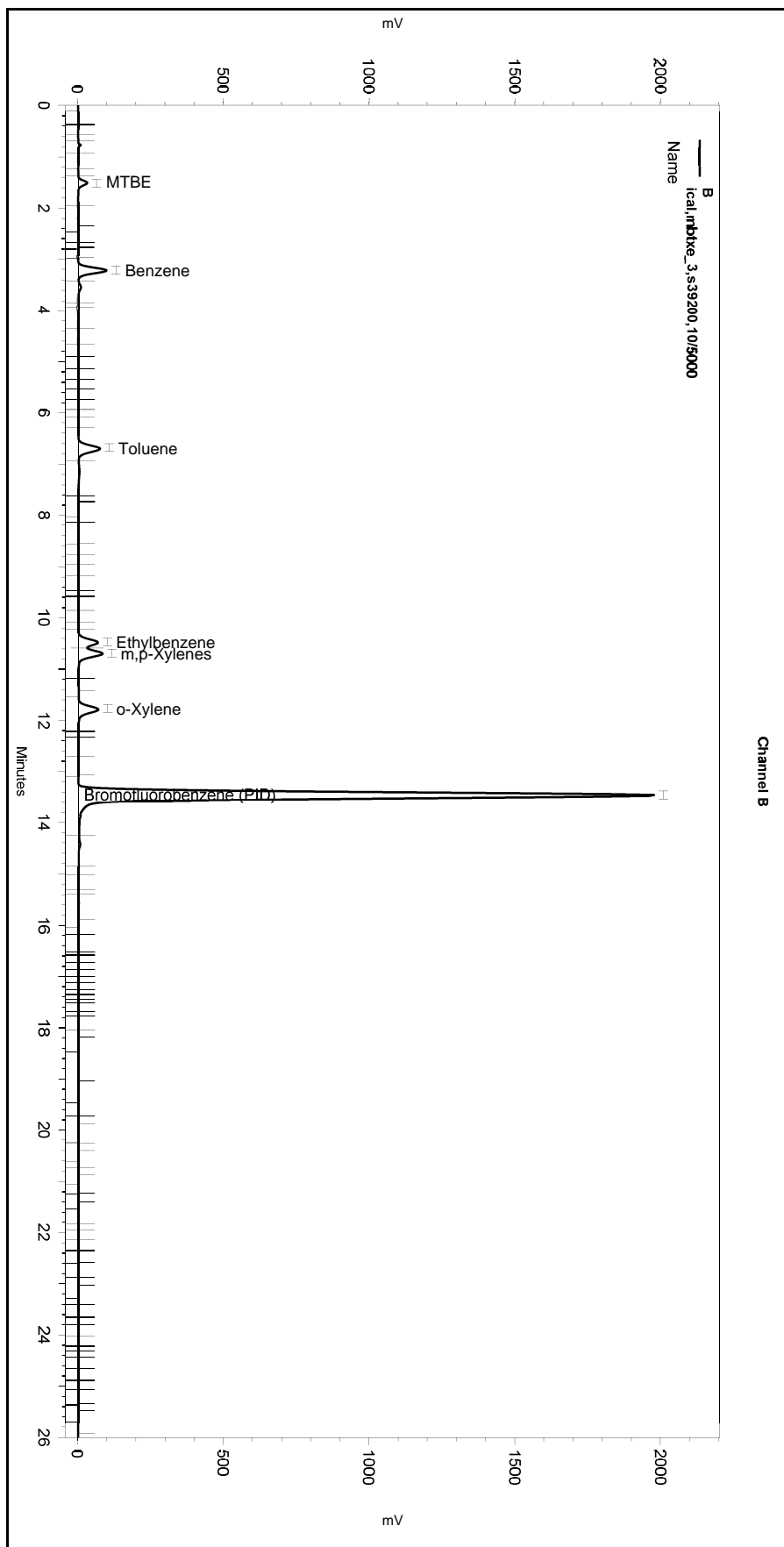
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-028

Enabled		Event Type	Start (Minutes)	Stop (Minutes)	Value
None					

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_3,s39200,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-028
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 5:58:28 AM
 Analysis Date: 4/1/2019 11:37:02 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

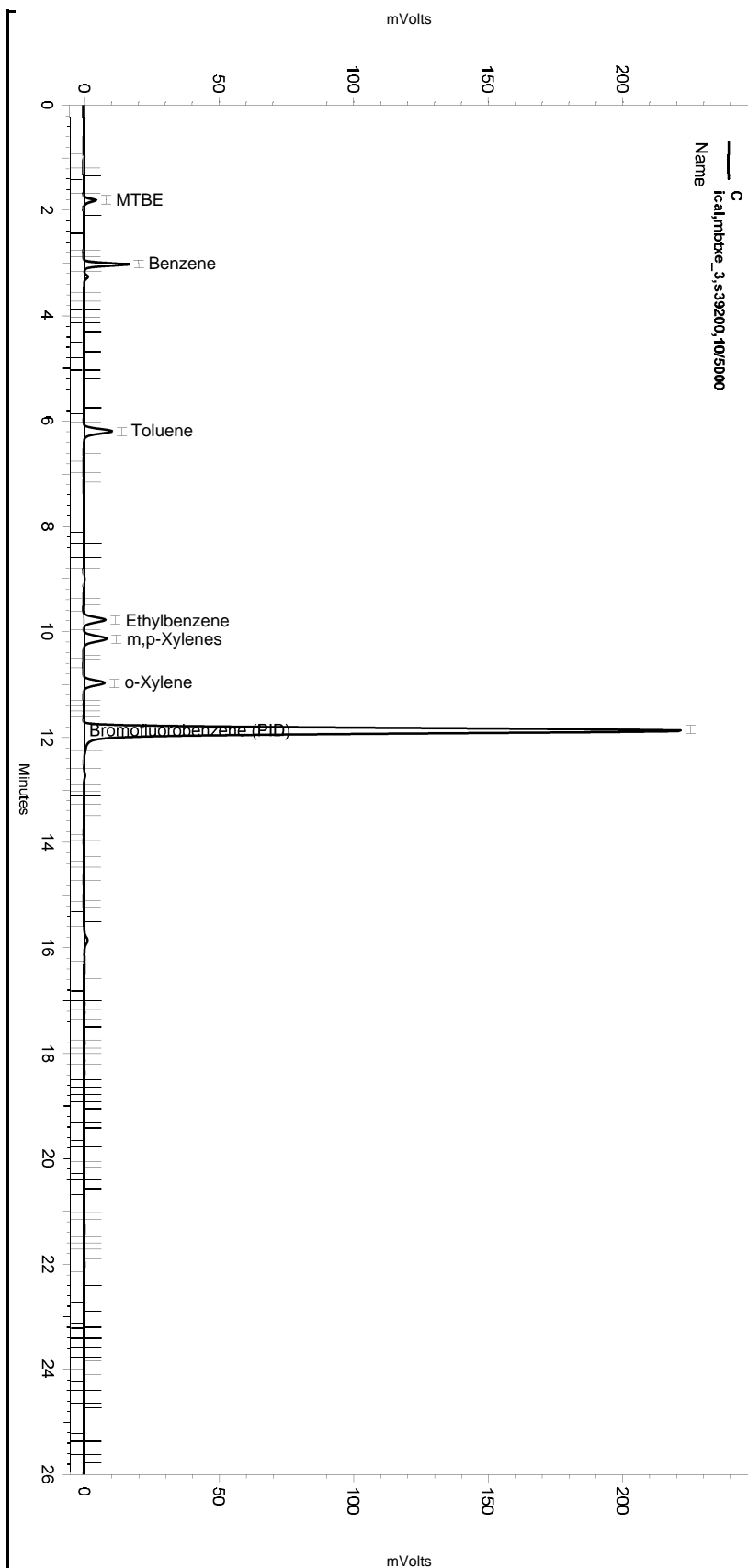
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_3,s39200,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-028
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lms2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 5:58:28 AM
 Analysis Date: 4/1/2019 11:37:02 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

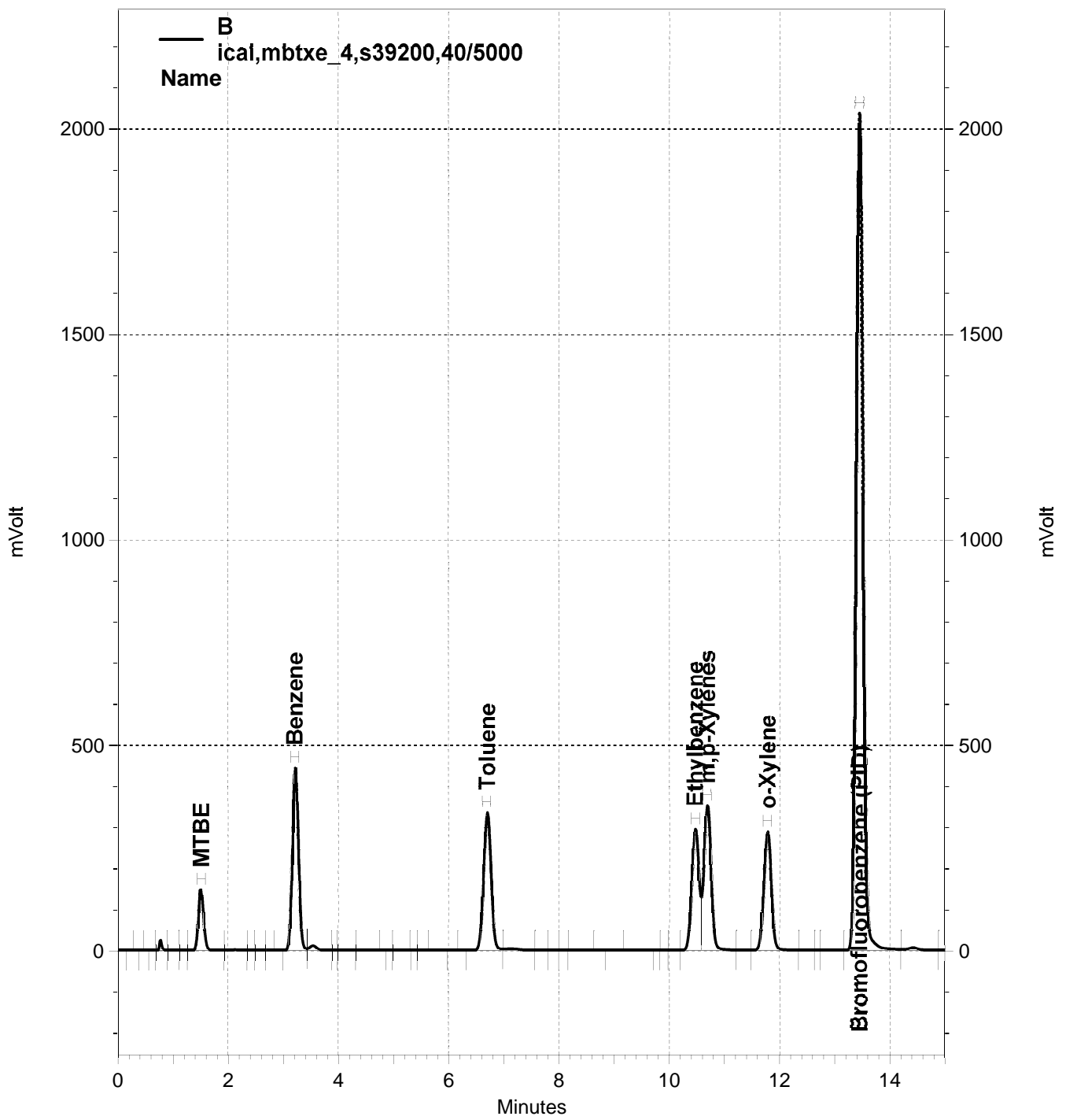
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

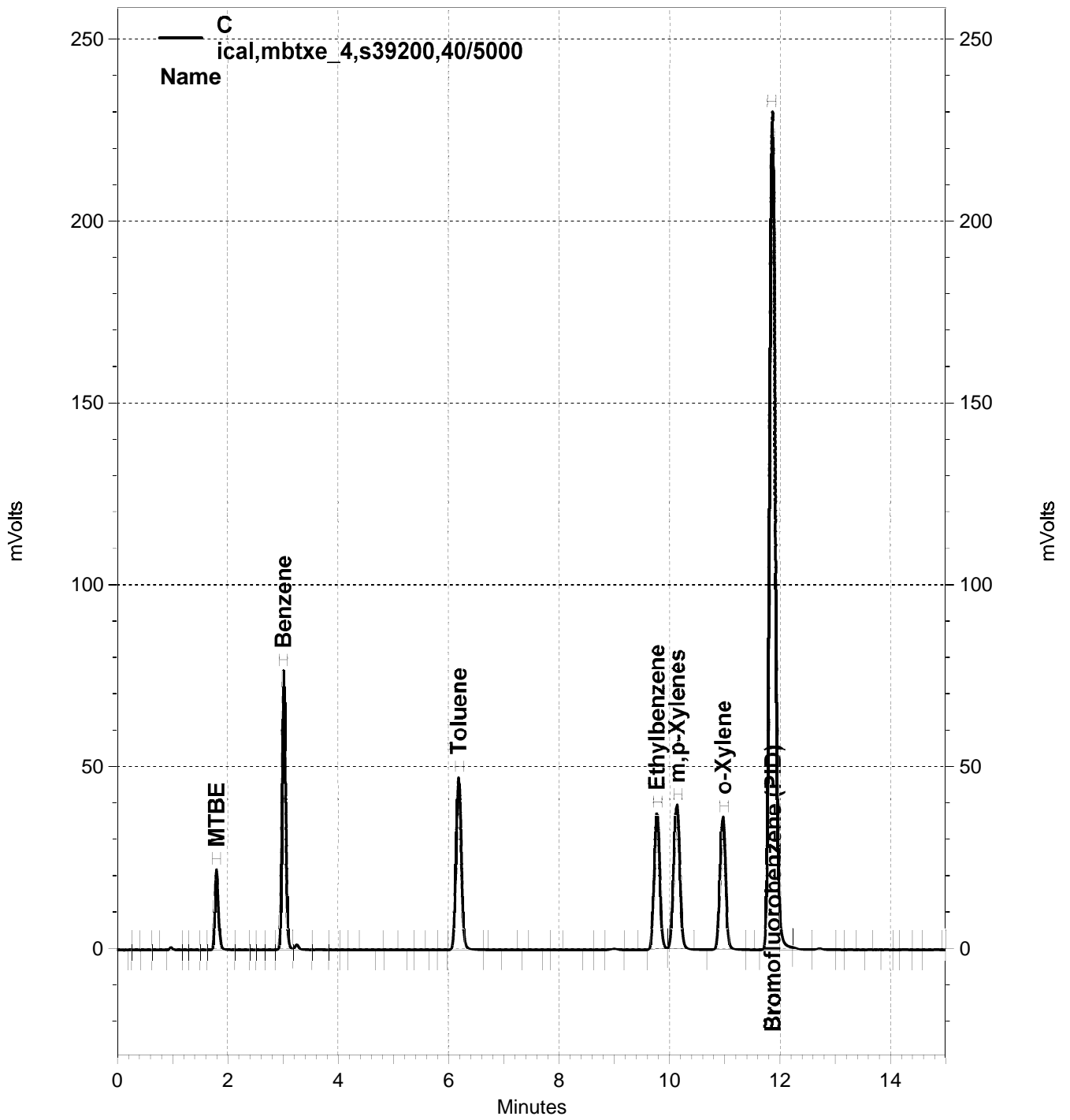
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

None



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-029, B



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-029, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: ical,mbtxe_4,s39200,40/5000	Run Date: 3/30/2019 6:36:05 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-029	Analysis Date: 4/1/2019 11:37:06 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.450	13.450	1339198	0.000 CAL
GAS:6-10			2800500	0.000 CAL
GAS:6-12			2939964	0.000 CAL
GAS:7-12			2686109	0.000 CAL
JP4:7-12			2686109	0.000 CAL
AVGAS:6-10			2800500	0.000 CAL
AVGAS:7-12			2686109	0.000 CAL

BTXE Instrument Results
Channel B: RTX-502.2 PID

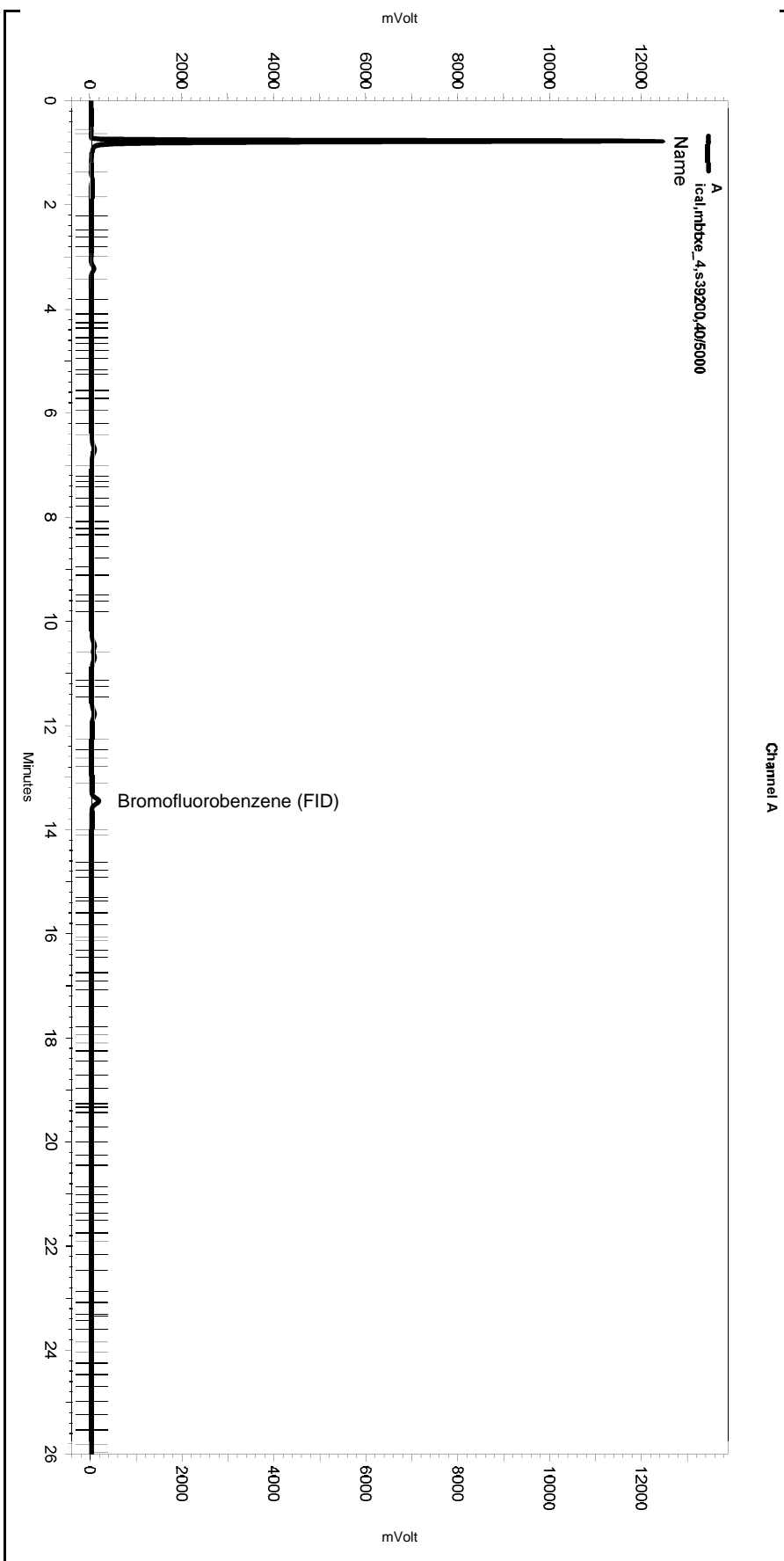
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.517	1.517	987080	100.000 CAL
Benzene	3.217	3.217	3444842	100.000 CAL
Toluene	6.700	6.683	3140459	100.000 CAL
Ethylbenzene	10.467	10.467	2705884	100.000 CAL
m,p-Xylenes	10.683	10.683	3233582	100.000 CAL
o-Xylene	11.783	11.767	2721312	100.000 CAL
Bromofluorobenzene (PID)	13.450	13.450	17205618	900.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	103625	100.000 CAL
Benzene	3.016	3.016	352831	100.000 CAL
Toluene	6.183	6.200	315461	100.000 CAL
Ethylbenzene	9.766	9.783	261273	100.000 CAL
m,p-Xylenes	10.133	10.149	306177	100.000 CAL
o-Xylene	10.966	10.983	262237	100.000 CAL
Bromofluorobenzene (PID)	11.866	11.849	1677396	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_4,s39200,40/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-029
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 6:36:05 AM
 Analysis Date: 4/1/2019 11:37:06 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

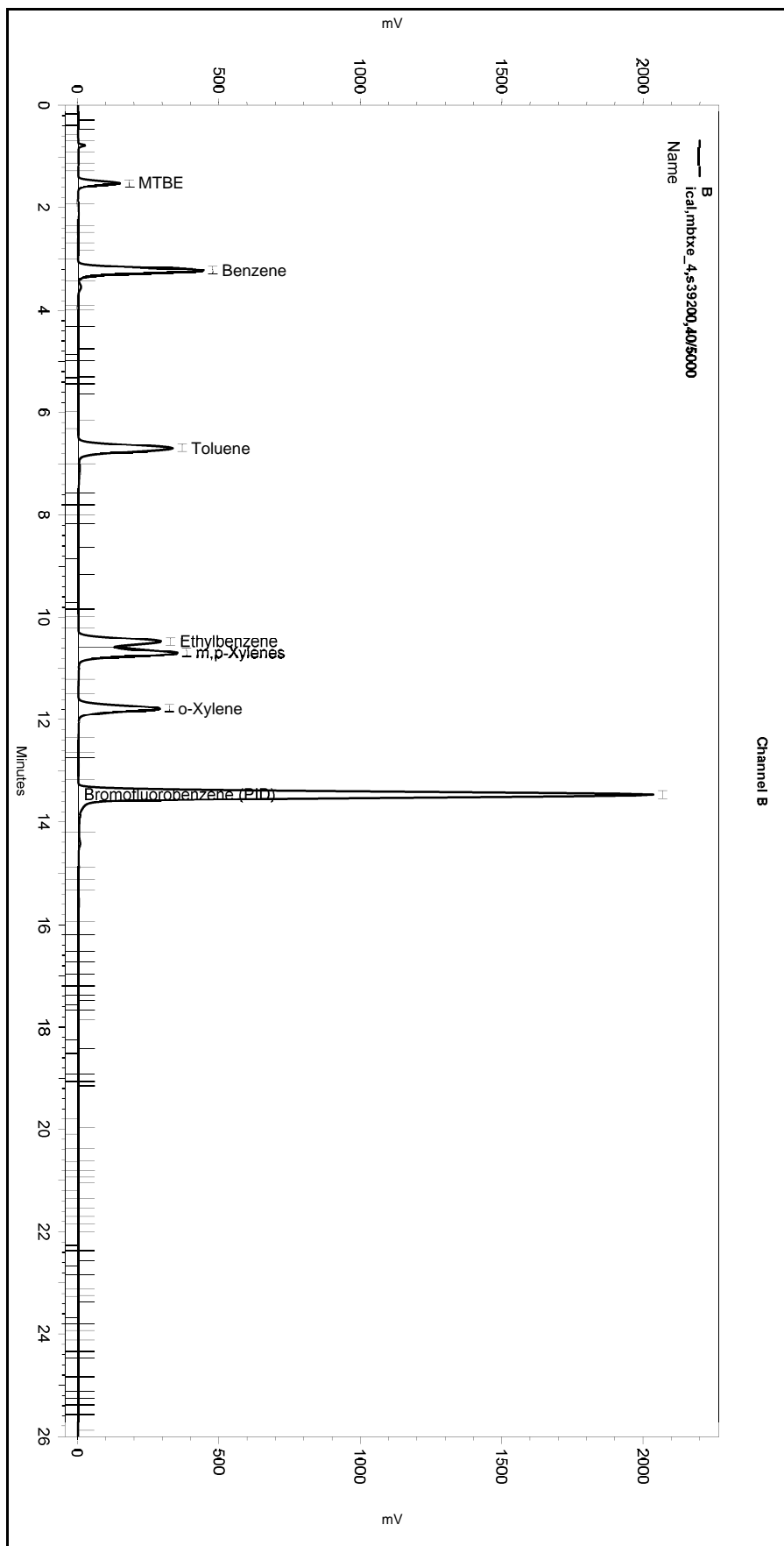
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_4,s39200,40/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-029
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 6:36:05 AM
 Analysis Date: 4/1/2019 11:37:06 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

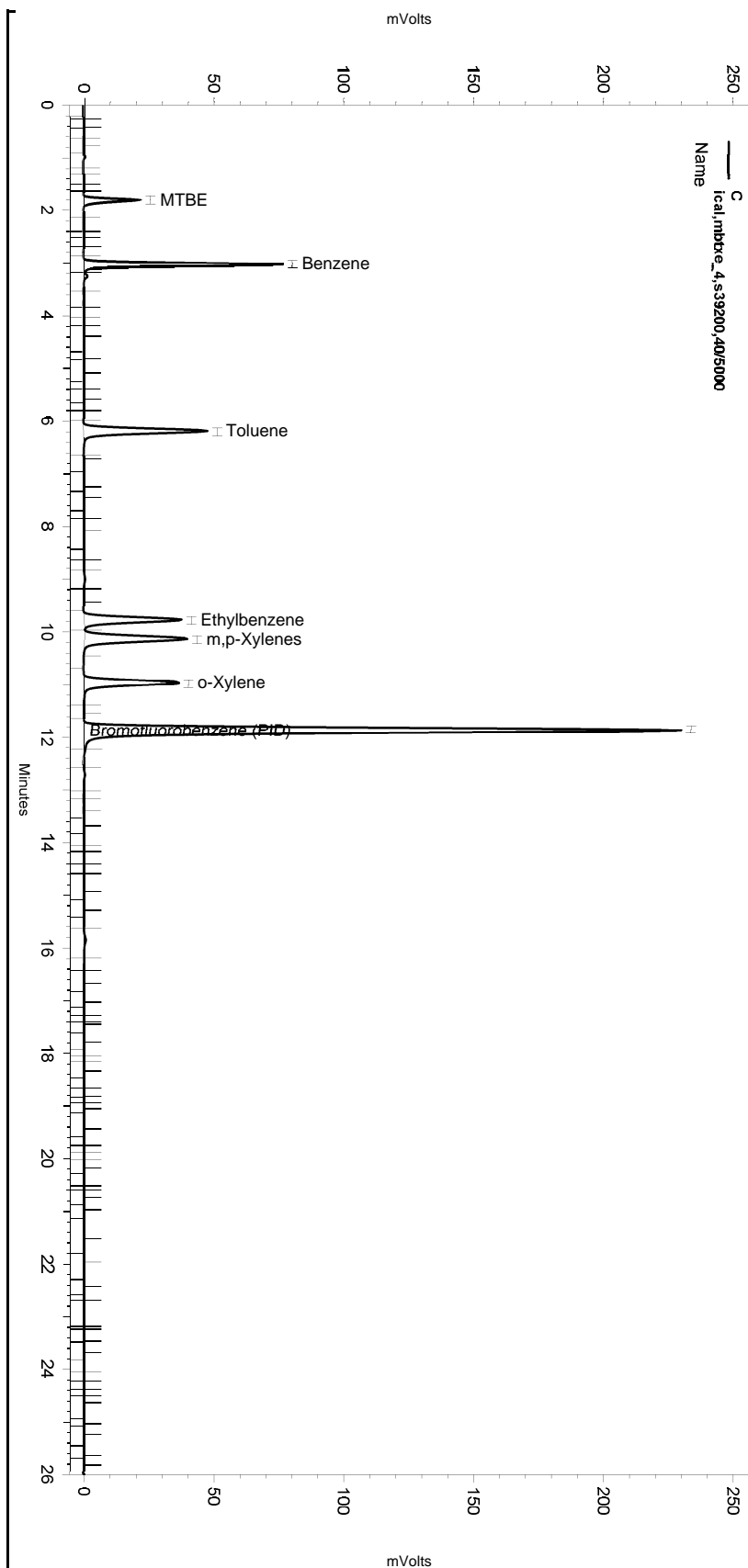
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_4,s39200,40/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-029
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 6:36:05 AM
 Analysis Date: 4/1/2019 11:37:06 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

---< General Method Parameters >---

No items selected for this section

---< C >---

No items selected for this section

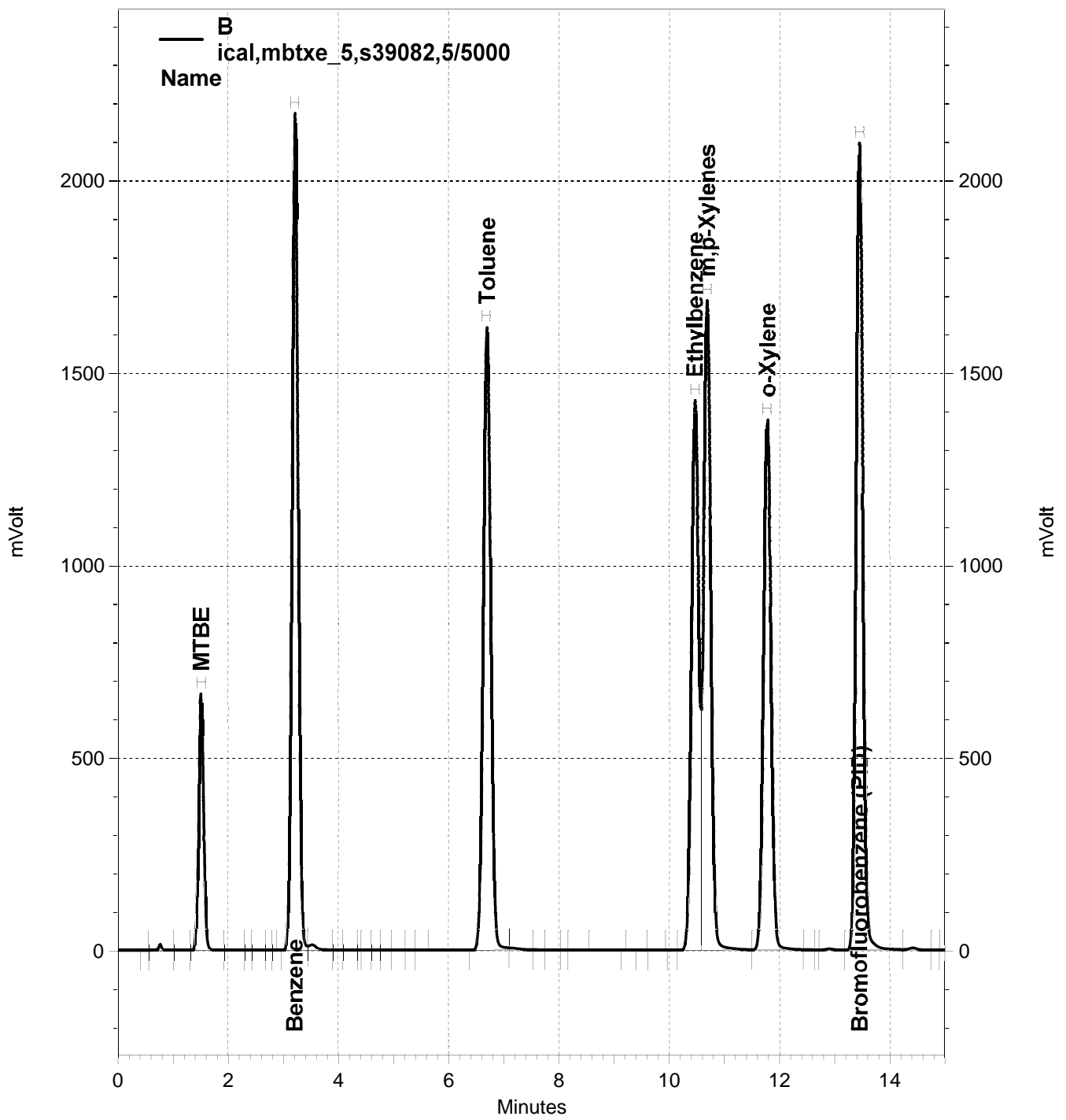
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

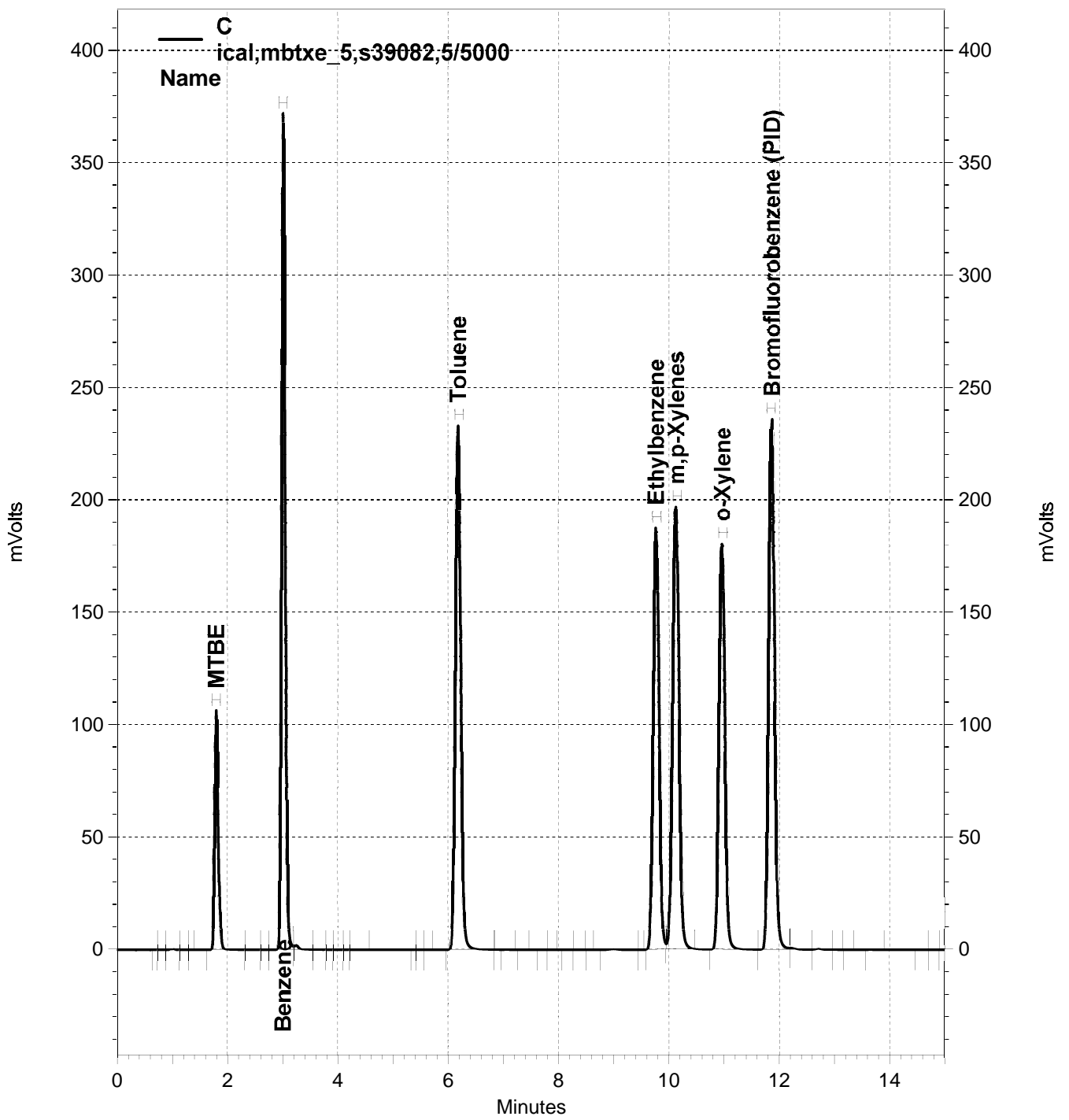
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030, B



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: ical,mbtxe_5,s39082,5/5000	Run Date: 3/30/2019 7:13:41 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030	Analysis Date: 4/1/2019 11:37:10 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.450	13.450	1359151	0.000 CAL
GAS:6-10			12725631	0.000 CAL
GAS:6-12			12818939	0.000 CAL
GAS:7-12			11873795	0.000 CAL
JP4:7-12			11873795	0.000 CAL
AVGAS:6-10			12725631	0.000 CAL
AVGAS:7-12			11873795	0.000 CAL

BTXE Instrument Results
Channel B: RTX-502.2 PID

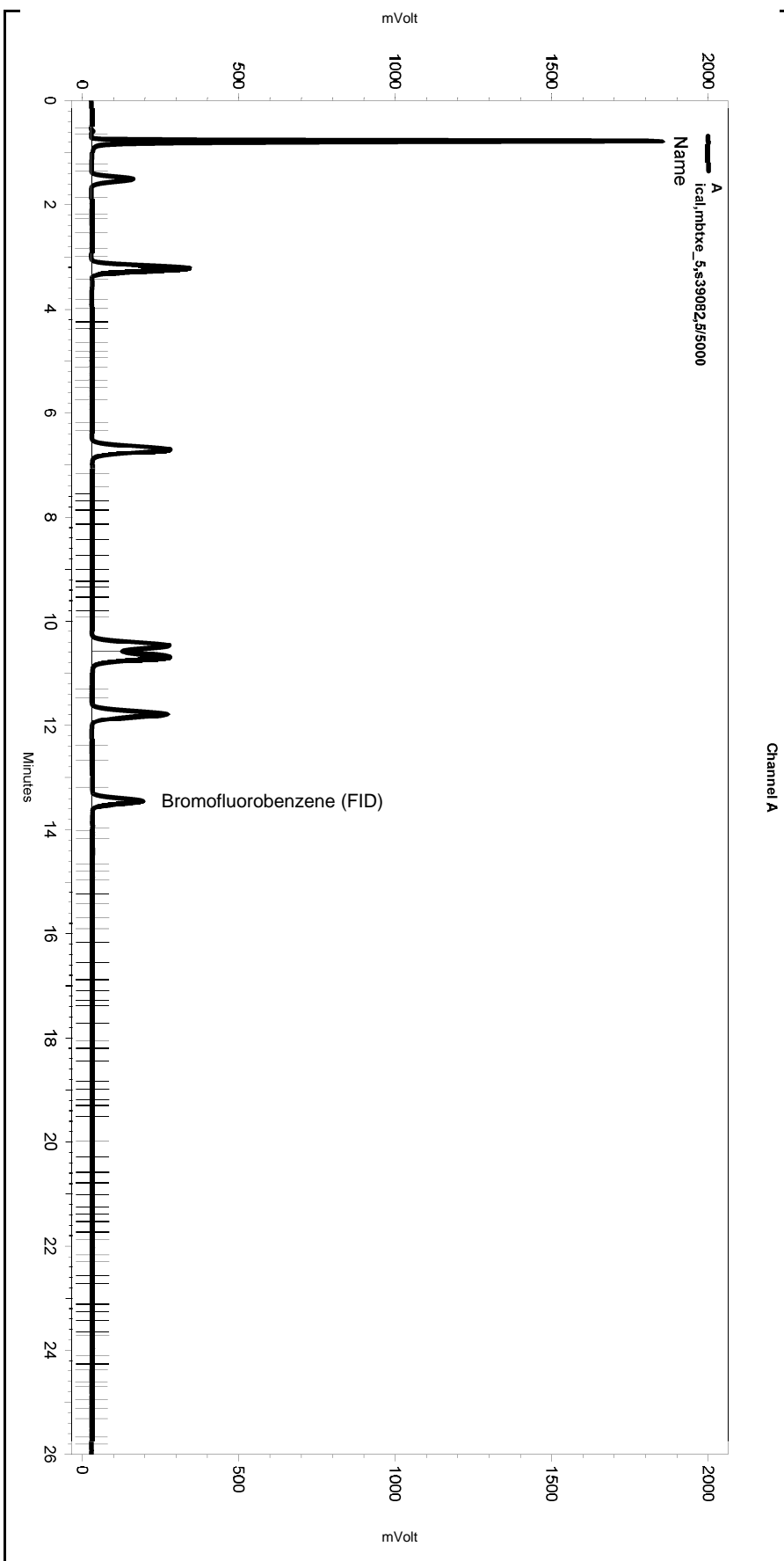
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.517	1.517	4164825	500.000 CAL
Benzene	3.217	3.217	17017670	500.000 CAL
Toluene	6.700	6.683	15320458	500.000 CAL
Ethylbenzene	10.467	10.467	13301265	500.000 CAL
m,p-Xylenes	10.683	10.683	15421463	500.000 CAL
o-Xylene	11.783	11.767	12997588	500.000 CAL
Bromofluorobenzene (PID)	13.450	13.450	17557036	900.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	503137	500.000 CAL
Benzene	3.016	3.016	1753040	500.000 CAL
Toluene	6.183	6.200	1593859	500.000 CAL
Ethylbenzene	9.766	9.783	1360888	500.000 CAL
m,p-Xylenes	10.133	10.149	1592539	500.000 CAL
o-Xylene	10.966	10.983	1329978	500.000 CAL
Bromofluorobenzene (PID)	11.866	11.849	1723931	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_5,s39082,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:13:41 AM
 Analysis Date: 4/1/2019 11:37:10 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

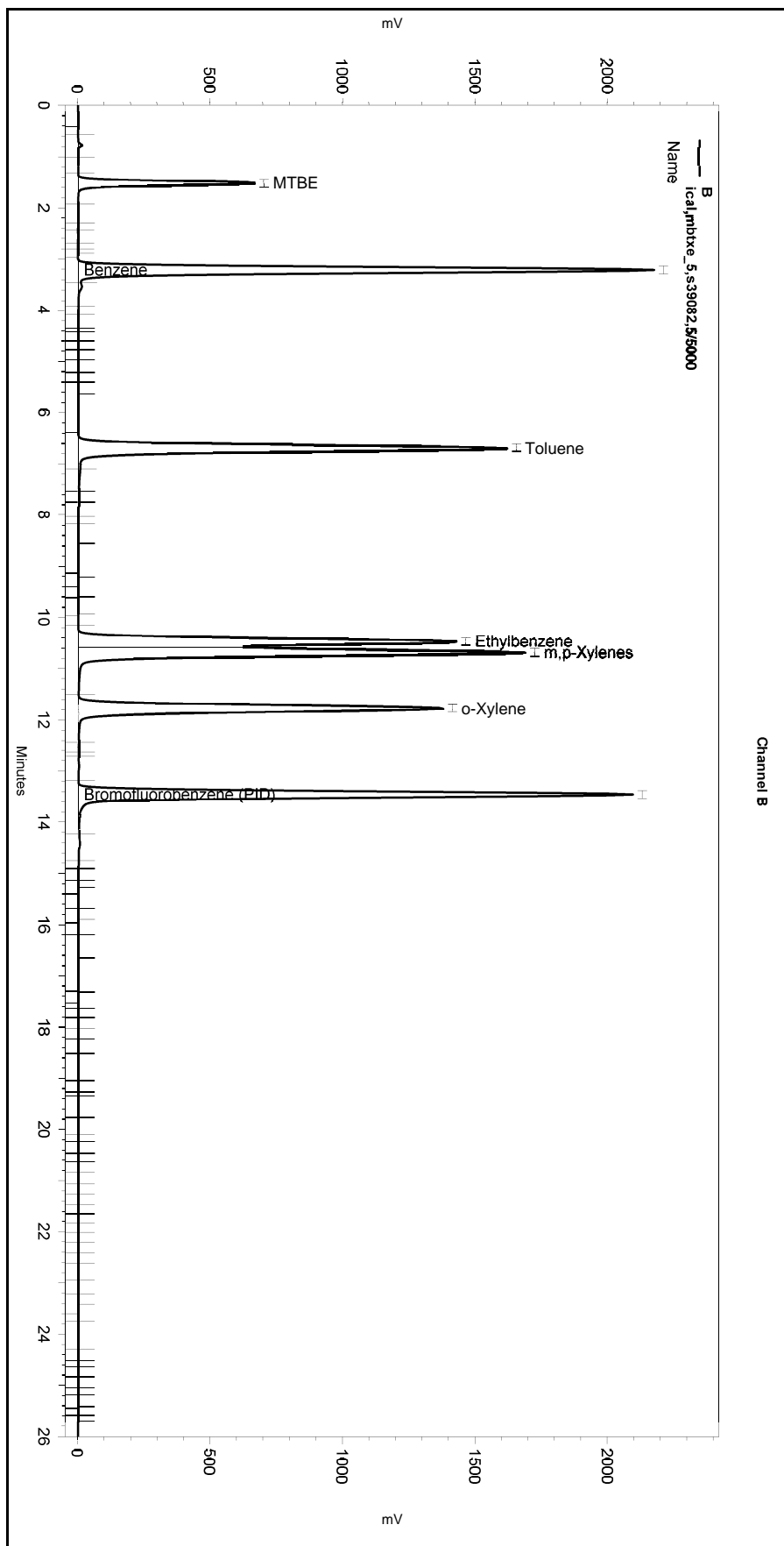
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_5,s39082,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:13:41 AM
 Analysis Date: 4/1/2019 11:37:10 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >

No items selected for this section

 ---< B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

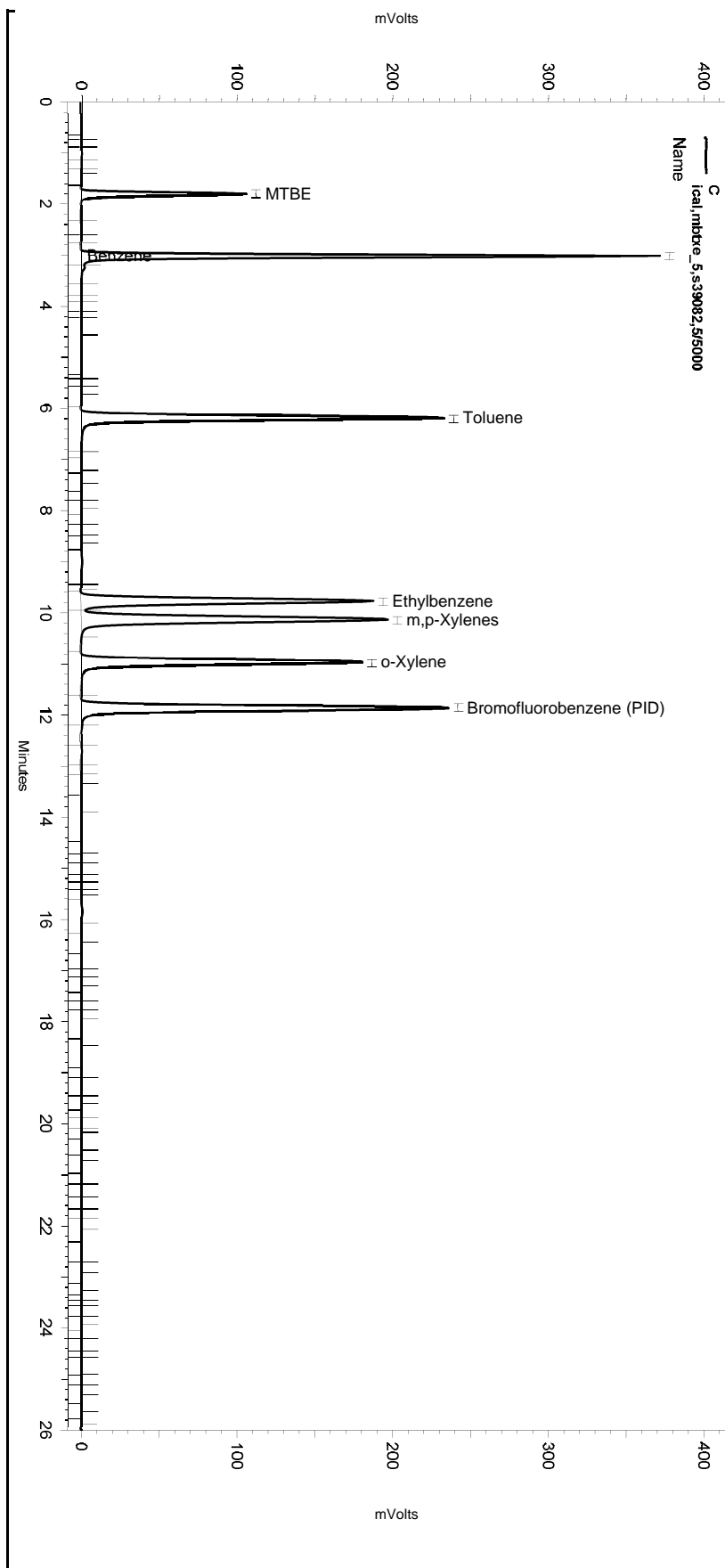
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_5,s39082,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:13:41 AM
 Analysis Date: 4/1/2019 11:37:10 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	9.583	10.465	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: ical,mbtxe_5,s39082,5/5000	Run Date: 3/30/2019 7:13:41 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030	Analysis Date: 4/1/2019 11:15:07 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.450	13.450	1359151	0.000 CAL
GAS:6-10			12725631	0.000 CAL
GAS:6-12			12818939	0.000 CAL
GAS:7-12			11873795	0.000 CAL
JP4:7-12			11873795	0.000 CAL
AVGAS:6-10			12725631	0.000 CAL
AVGAS:7-12			11873795	0.000 CAL

BTXE Instrument Results
Channel B: RTX-502.2 PID

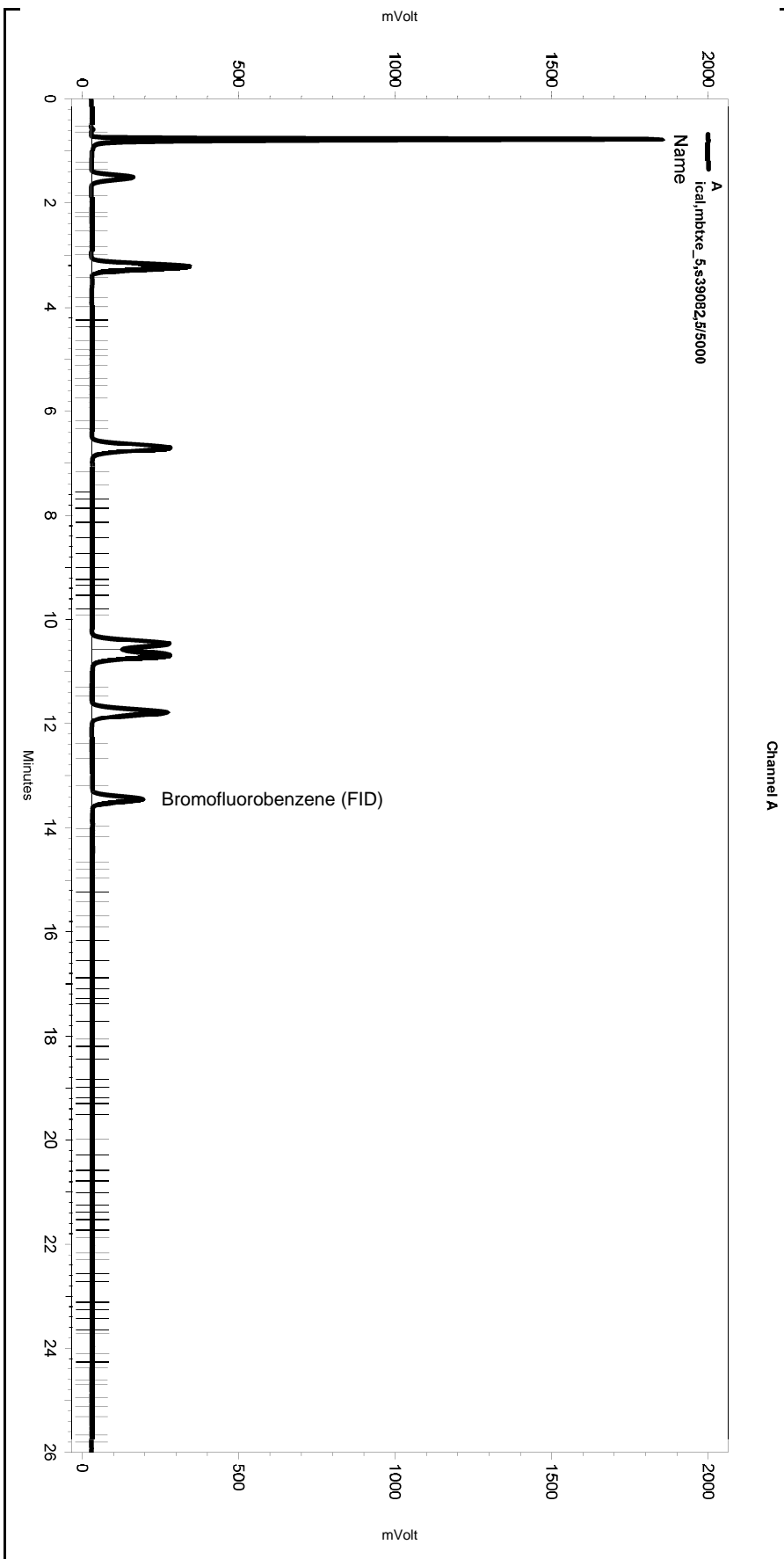
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.517	1.517	4164825	500.000 CAL
Benzene	3.217	3.217	17017670	500.000 CAL
Toluene	6.700	6.683	15320458	500.000 CAL
Ethylbenzene	10.467	10.467	13301265	500.000 CAL
m,p-Xylenes	10.683	10.683	15421463	500.000 CAL
o-Xylene	11.783	11.767	12997588	500.000 CAL
Bromofluorobenzene (PID)	13.450	13.450	17557036	900.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	503137	500.000 CAL
Benzene	3.016	3.016	1753040	500.000 CAL
Toluene	6.183	6.200	1593859	500.000 CAL
Ethylbenzene	9.766	9.783	1331482	500.000 CAL
m,p-Xylenes	10.133	10.149	1551103	500.000 CAL
o-Xylene	10.966	10.983	1329978	500.000 CAL
Bromofluorobenzene (PID)	11.866	11.849	1723931	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_5,s39082,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:13:41 AM
 Analysis Date: 4/1/2019 11:15:07 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled		Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width		0	0	0.2
Yes	Threshold		0	0	50

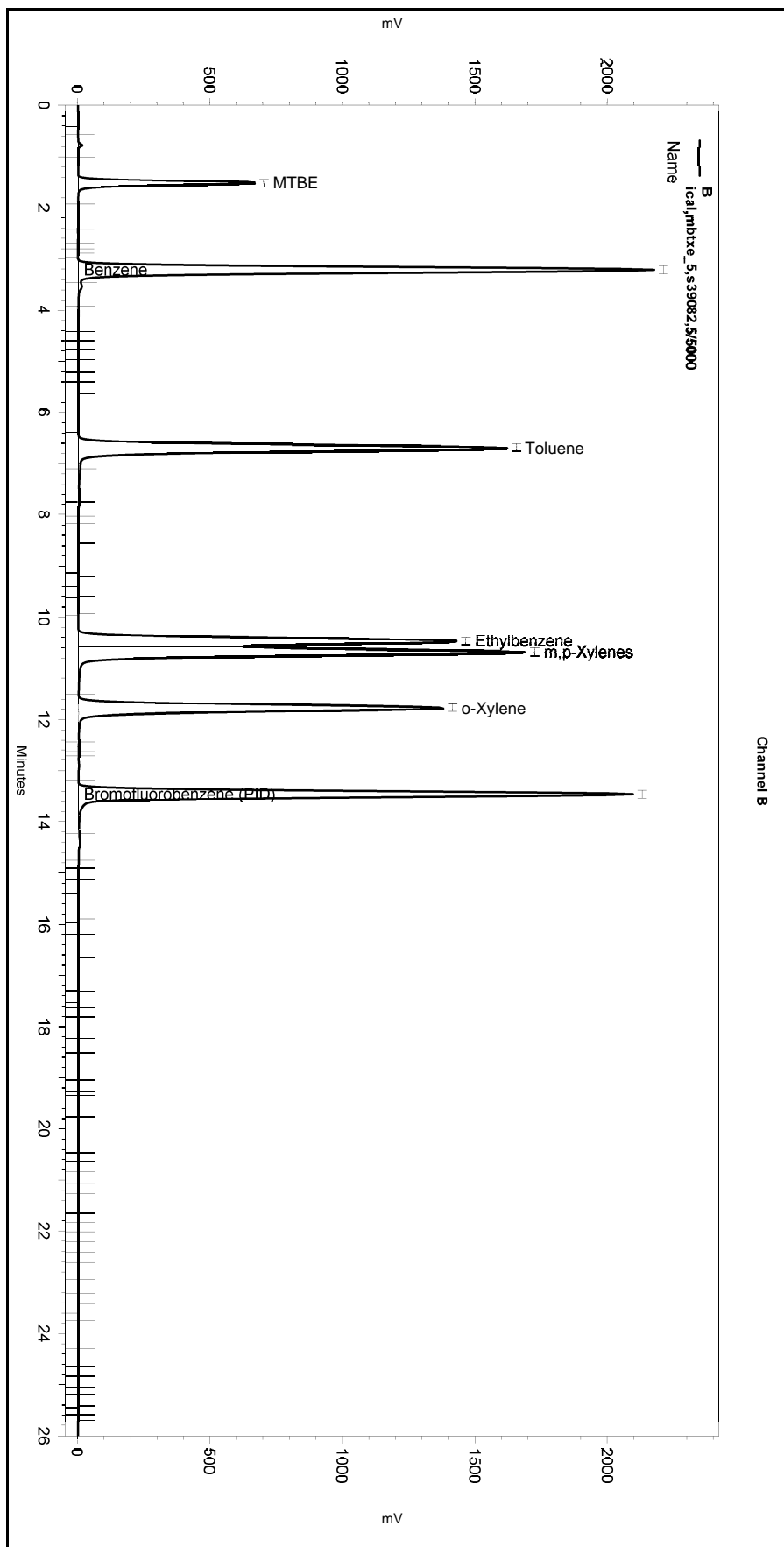
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030

Enabled		Event Type	Start (Minutes)	Stop (Minutes)	Value
None					

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_5,s39082,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:13:41 AM
 Analysis Date: 4/1/2019 11:15:07 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

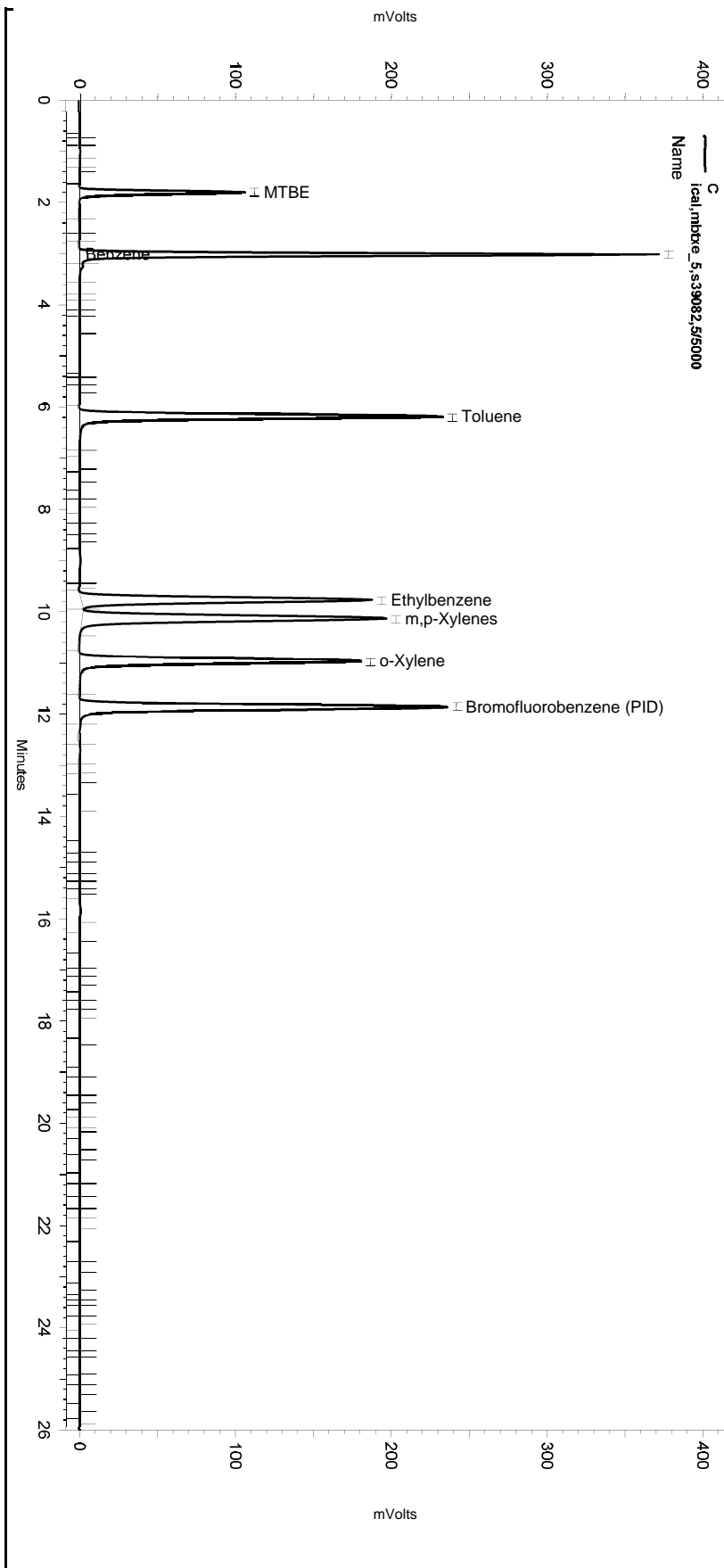
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_5,s39082,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:13:41 AM
 Analysis Date: 4/1/2019 11:15:07 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

=====
 Integration Events
 =====

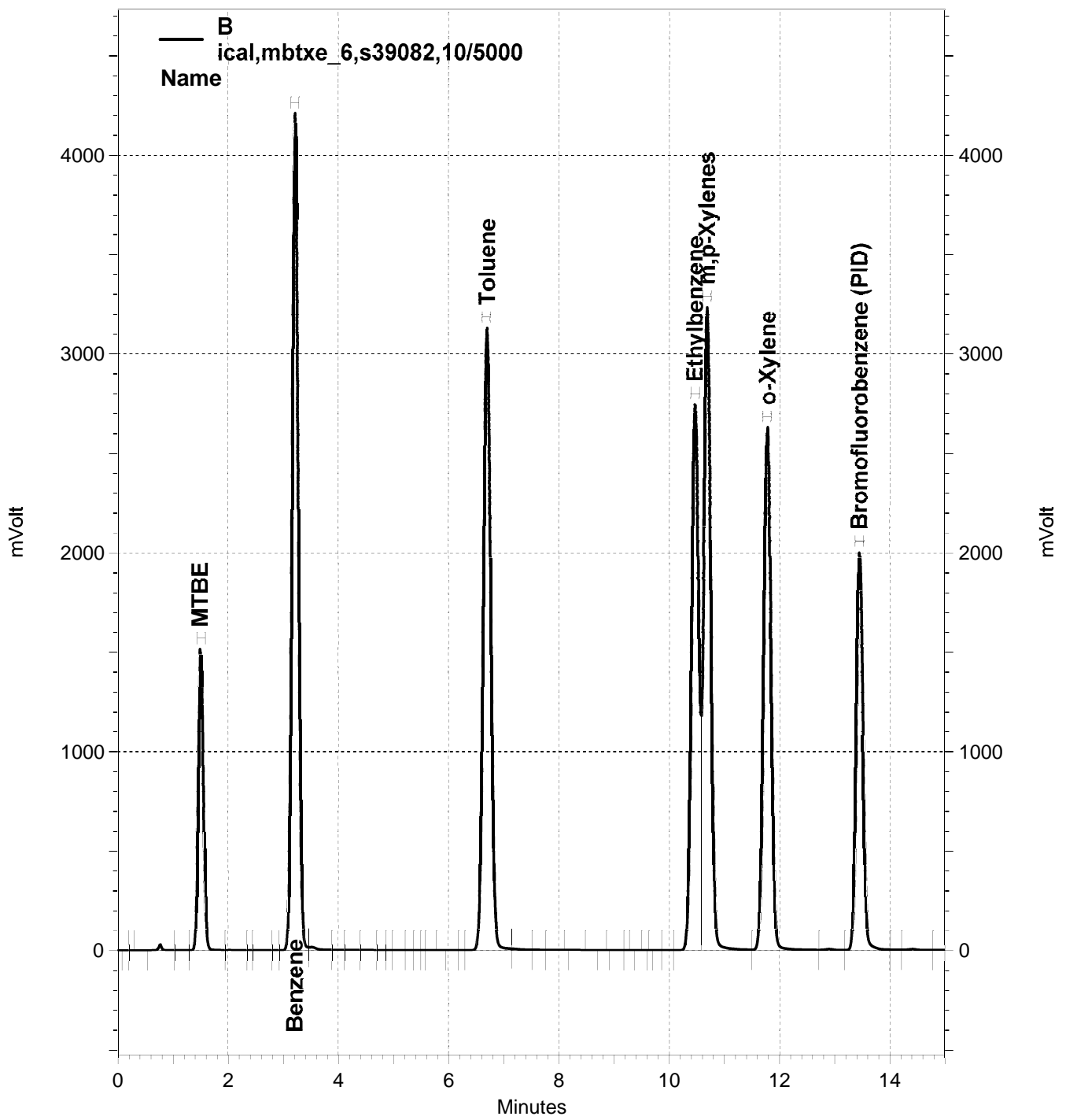
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

=====
 Manual Integration Fixes
 =====

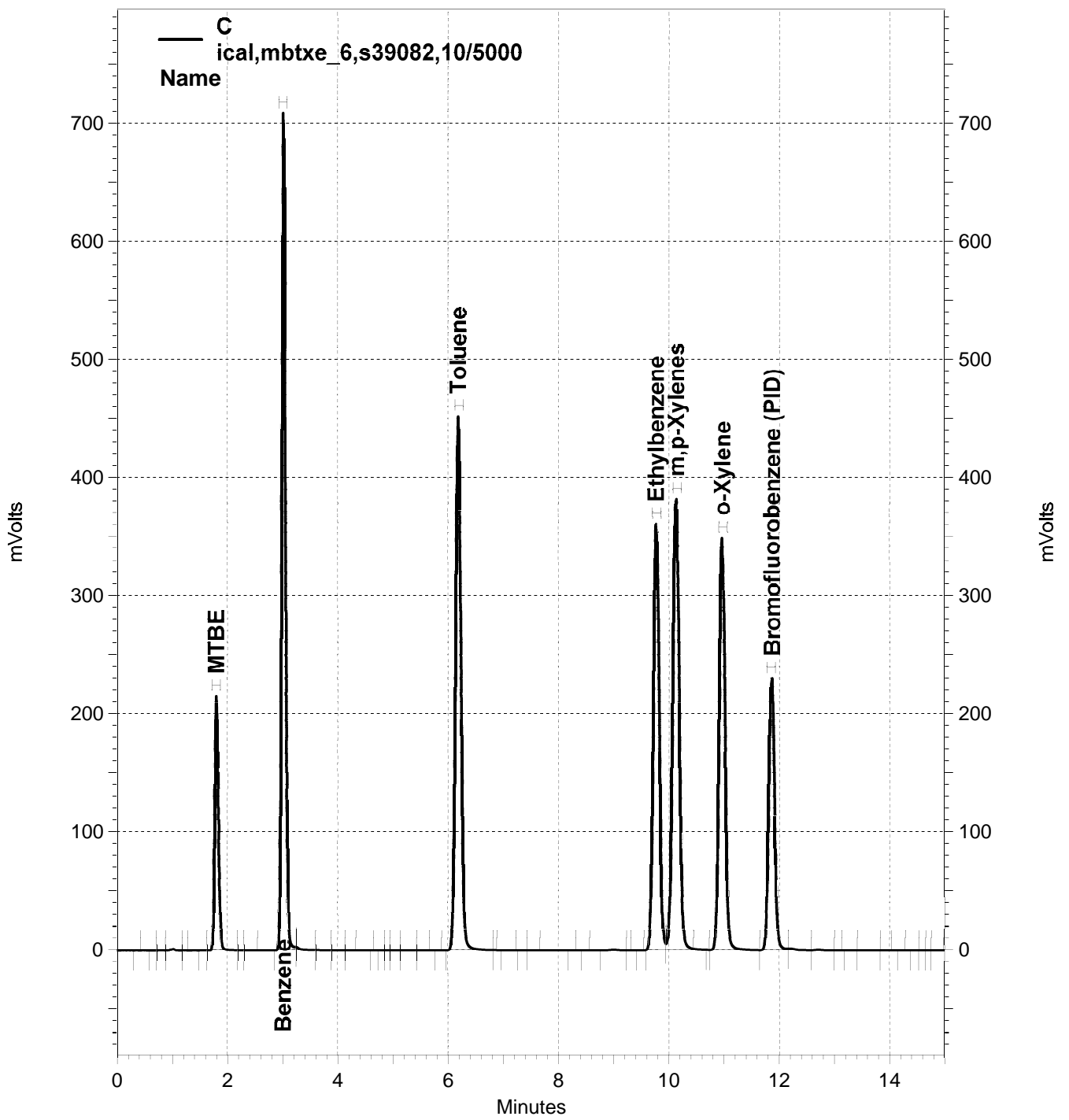
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

None



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031, B



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: ical,mbtxe_6,s39082,10/5000	Run Date: 3/30/2019 7:51:16 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031	Analysis Date: 4/1/2019 11:37:15 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.450	13.450	1320314	0.000 CAL
GAS:6-10			24764224	0.000 CAL
GAS:6-12			24849670	0.000 CAL
GAS:7-12			23052202	0.000 CAL
JP4:7-12			23052202	0.000 CAL
AVGAS:6-10			24764224	0.000 CAL
AVGAS:7-12			23052202	0.000 CAL

BTXE Instrument Results
Channel B: RTX-502.2 PID

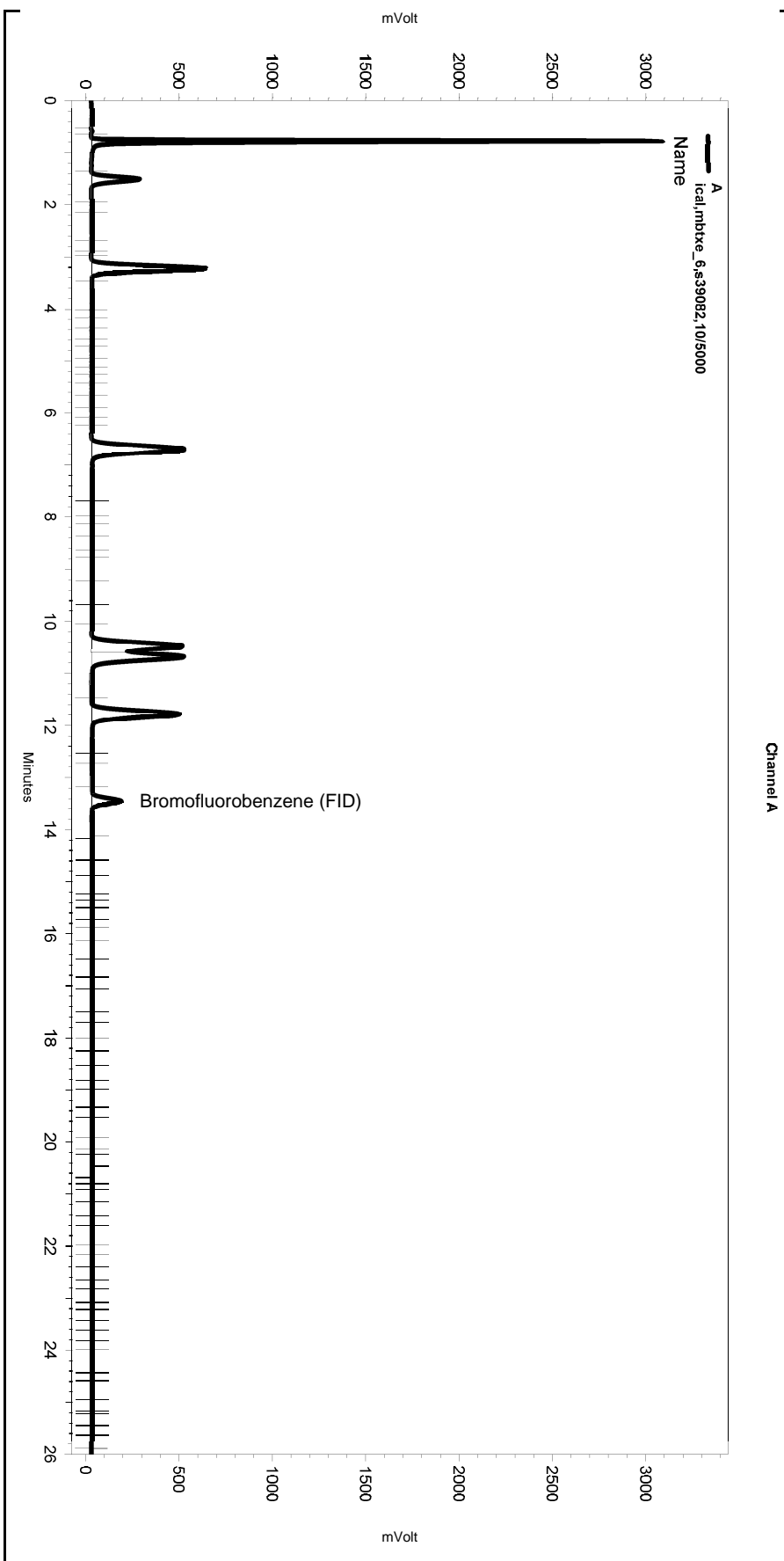
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.500	1.517	10006101	1000.000 CAL
Benzene	3.217	3.217	32935166	1000.000 CAL
Toluene	6.700	6.683	29465598	1000.000 CAL
Ethylbenzene	10.467	10.467	25514288	1000.000 CAL
m,p-Xylenes	10.683	10.683	29125070	1000.000 CAL
o-Xylene	11.783	11.767	24564794	1000.000 CAL
Bromofluorobenzene (PID)	13.450	13.450	16598904	900.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	1028074	1000.000 CAL
Benzene	3.016	3.016	3372327	1000.000 CAL
Toluene	6.183	6.200	3084741	1000.000 CAL
Ethylbenzene	9.766	9.783	2640553	1000.000 CAL
m,p-Xylenes	10.133	10.149	3079680	1000.000 CAL
o-Xylene	10.966	10.983	2576830	1000.000 CAL
Bromofluorobenzene (PID)	11.866	11.849	1662015	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\088.seq
 Sample Name: ical,mbtxe_6,s39082,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:51:16 AM
 Analysis Date: 4/1/2019 11:37:15 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

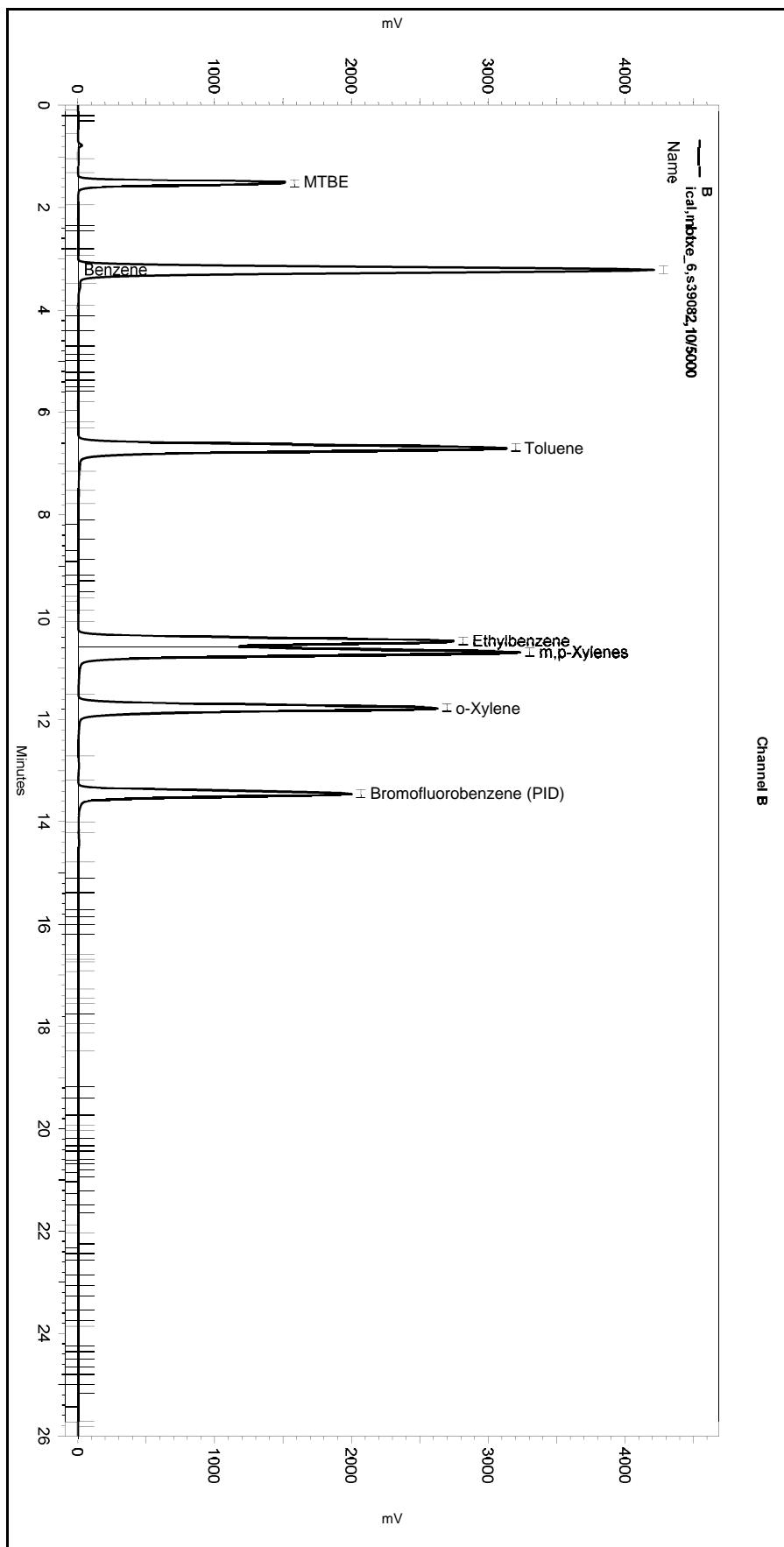
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\088.seq
 Sample Name: ical,mbtxe_6,s39082,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:51:16 AM
 Analysis Date: 4/1/2019 11:37:15 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

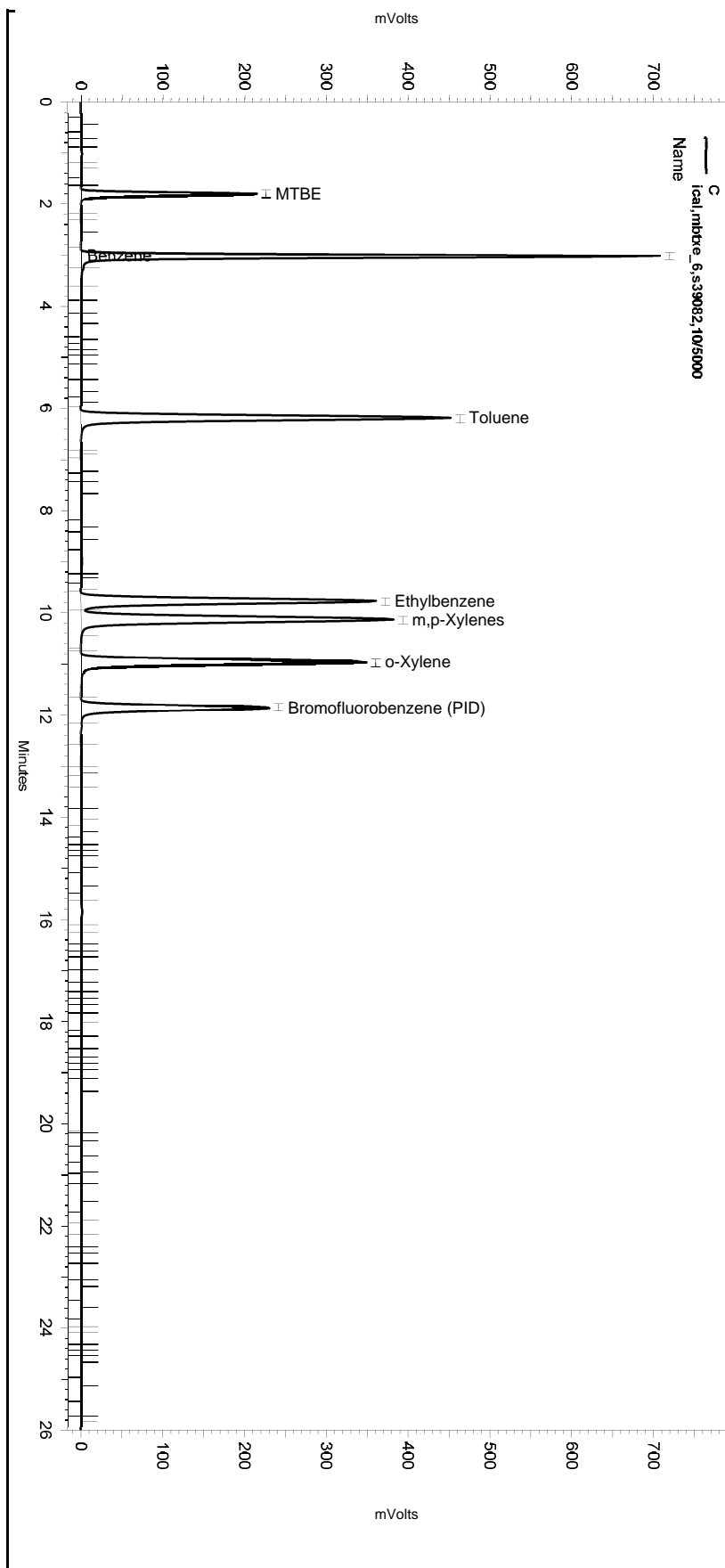
=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_6,s39082,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:51:16 AM
 Analysis Date: 4/1/2019 11:37:15 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	9.582	10.45	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: ical,mbtxe_6,s39082,10/5000	Run Date: 3/30/2019 7:51:16 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031	Analysis Date: 4/1/2019 11:15:11 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.450	13.450	1320314	0.000 CAL
GAS:6-10			24764224	0.000 CAL
GAS:6-12			24849670	0.000 CAL
GAS:7-12			23052202	0.000 CAL
JP4:7-12			23052202	0.000 CAL
AVGAS:6-10			24764224	0.000 CAL
AVGAS:7-12			23052202	0.000 CAL

BTXE Instrument Results
Channel B: RTX-502.2 PID

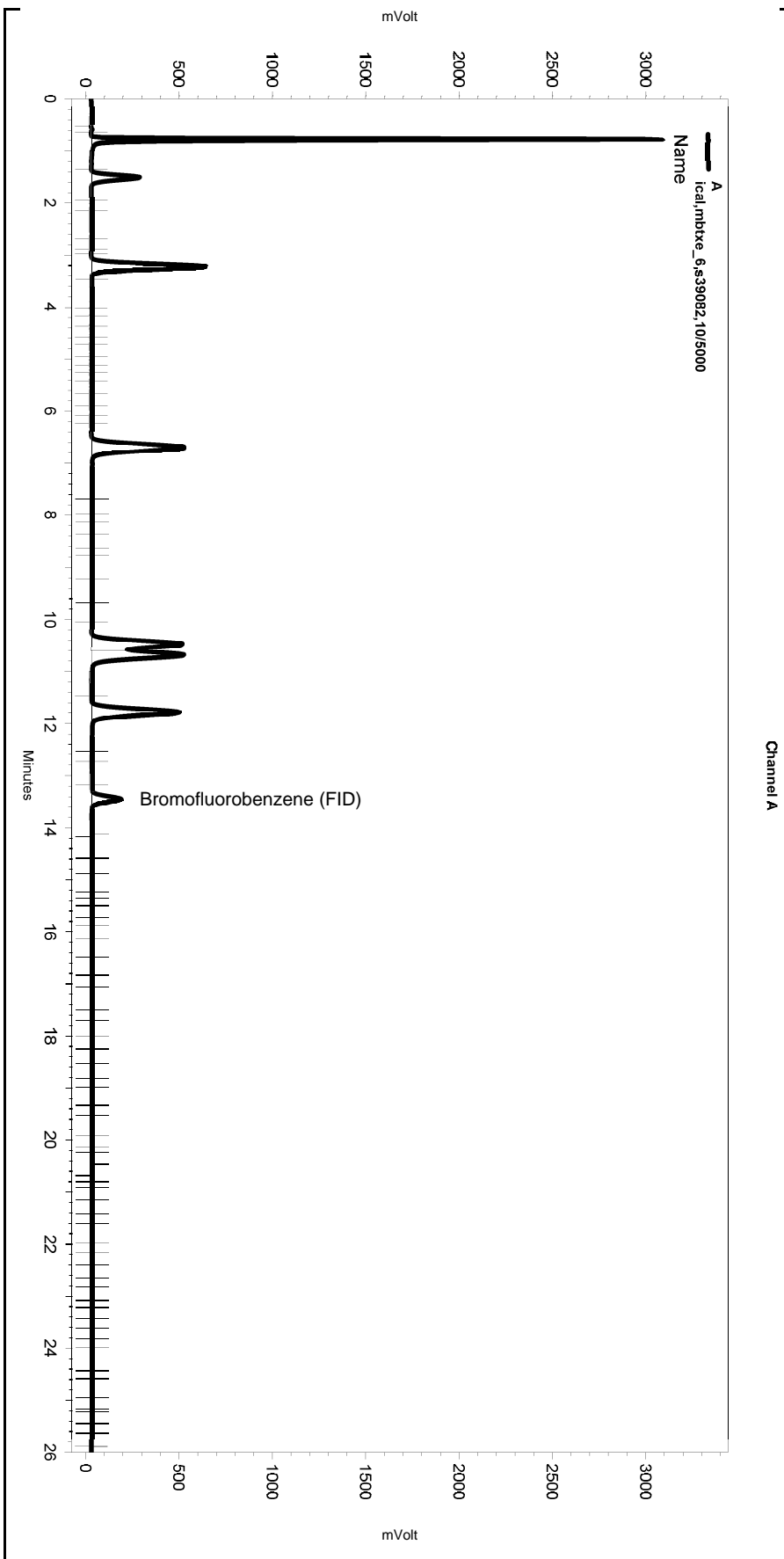
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.500	1.517	10006101	1000.000 CAL
Benzene	3.217	3.217	32935166	1000.000 CAL
Toluene	6.700	6.683	29465598	1000.000 CAL
Ethylbenzene	10.467	10.467	25514288	1000.000 CAL
m,p-Xylenes	10.683	10.683	29125070	1000.000 CAL
o-Xylene	11.783	11.767	24564794	1000.000 CAL
Bromofluorobenzene (PID)	13.450	13.450	16598904	900.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	1028074	1000.000 CAL
Benzene	3.016	3.016	3372327	1000.000 CAL
Toluene	6.183	6.200	3084741	1000.000 CAL
Ethylbenzene	9.766	9.783	2585220	1000.000 CAL
m,p-Xylenes	10.133	10.149	3004226	1000.000 CAL
o-Xylene	10.966	10.983	2576830	1000.000 CAL
Bromofluorobenzene (PID)	11.866	11.849	1662015	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\088.seq
 Sample Name: ical,mbtxe_6,s39082,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:51:16 AM
 Analysis Date: 4/1/2019 11:15:11 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

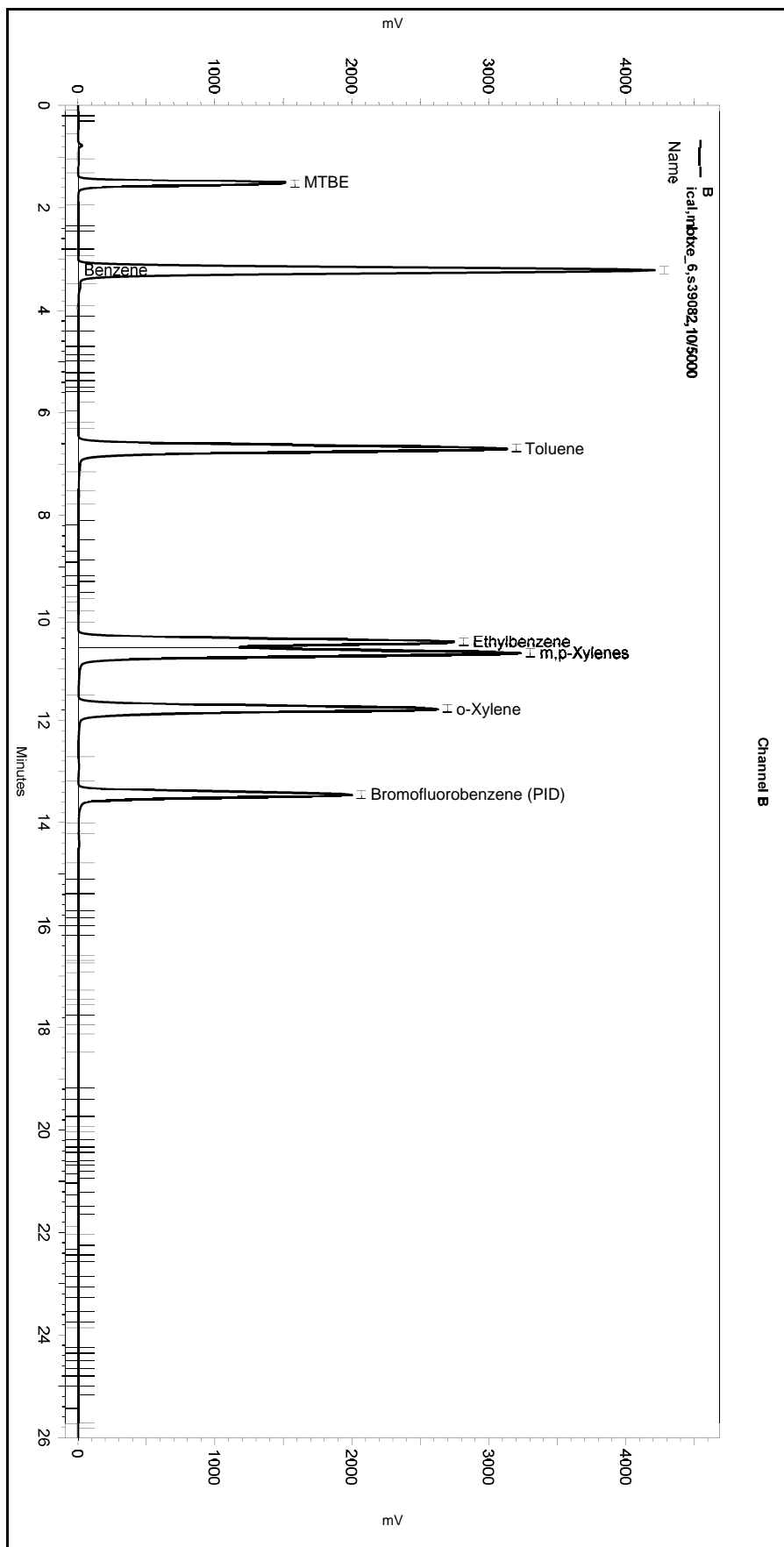
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\088.seq
 Sample Name: ical,mbtxe_6,s39082,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:51:16 AM
 Analysis Date: 4/1/2019 11:15:11 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >

No items selected for this section

 ---< B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

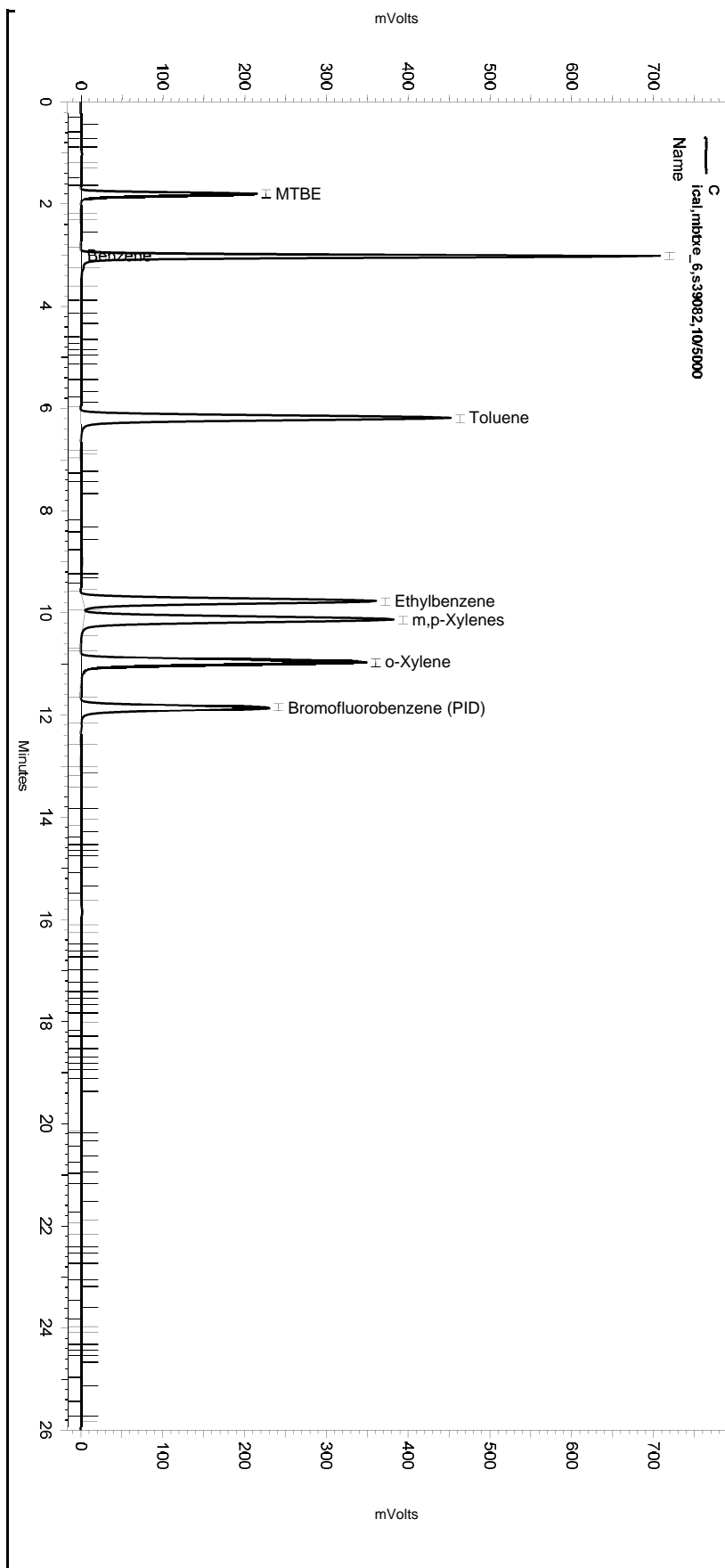
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_6,s39082,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTXE088.met

Software Version 3.1.7
 Run Date: 3/30/2019 7:51:16 AM
 Analysis Date: 4/1/2019 11:15:11 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

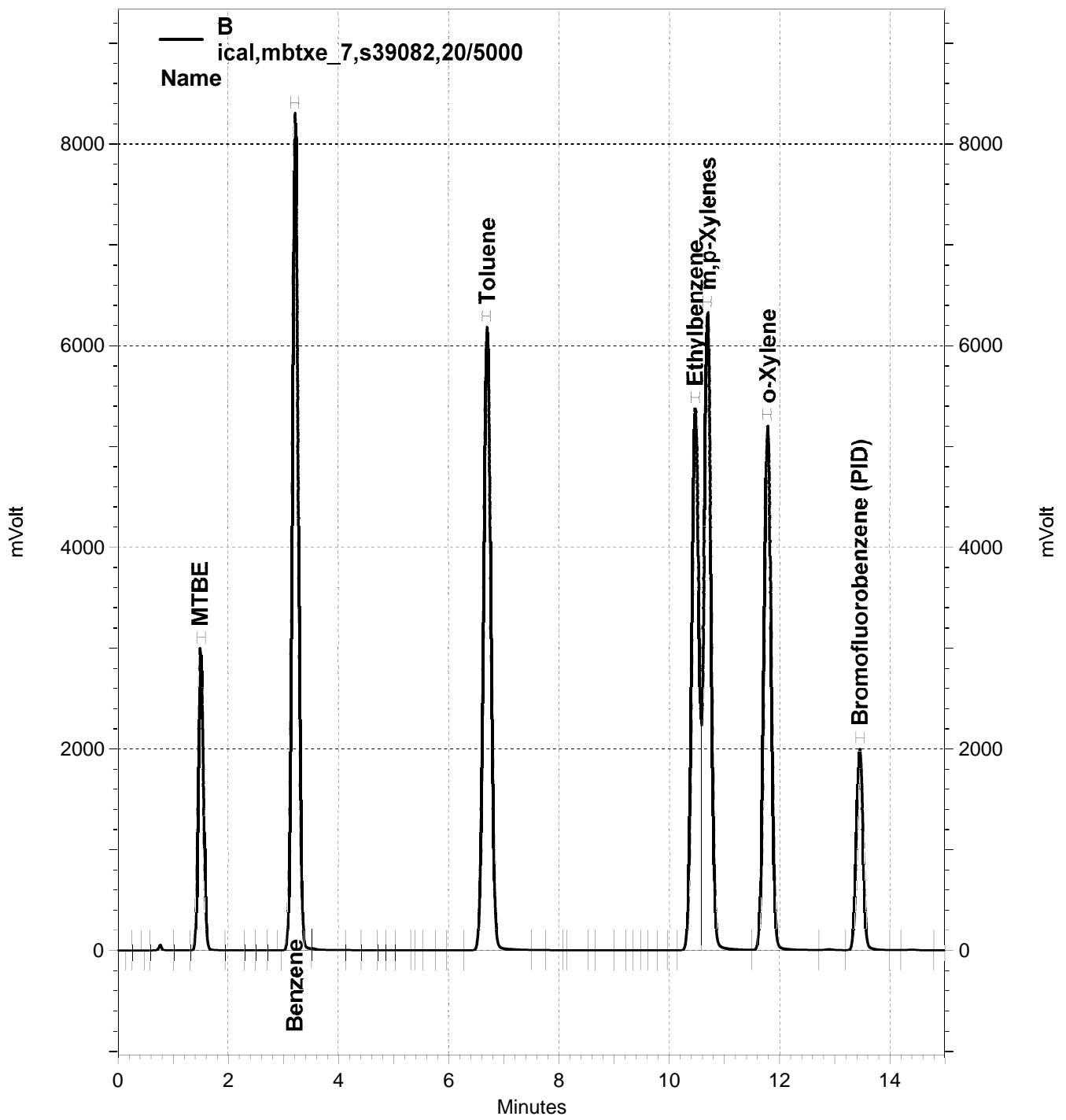
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

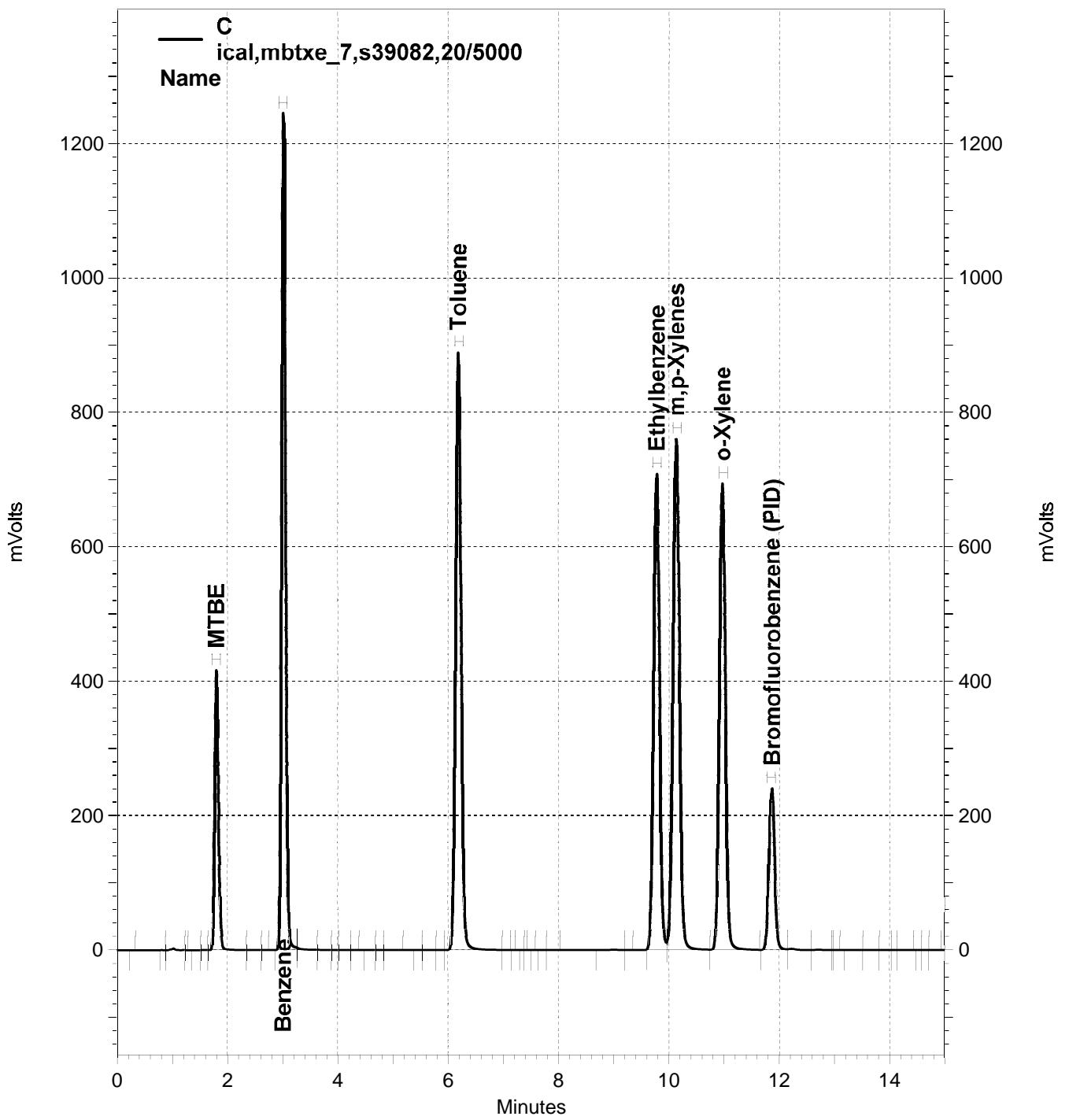
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

None



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032, B



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: ical,mbtxe_7,s39082,20/5000	Run Date: 3/30/2019 8:28:50 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032	Analysis Date: 4/1/2019 11:37:19 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.450	13.450	1395583	0.000 CAL
GAS:6-10			50350544	0.000 CAL
GAS:6-12			50460692	0.000 CAL
GAS:7-12			46837340	0.000 CAL
JP4:7-12			46837340	0.000 CAL
AVGAS:6-10			50350544	0.000 CAL
AVGAS:7-12			46837340	0.000 CAL

BTXE Instrument Results
Channel B: RTX-502.2 PID

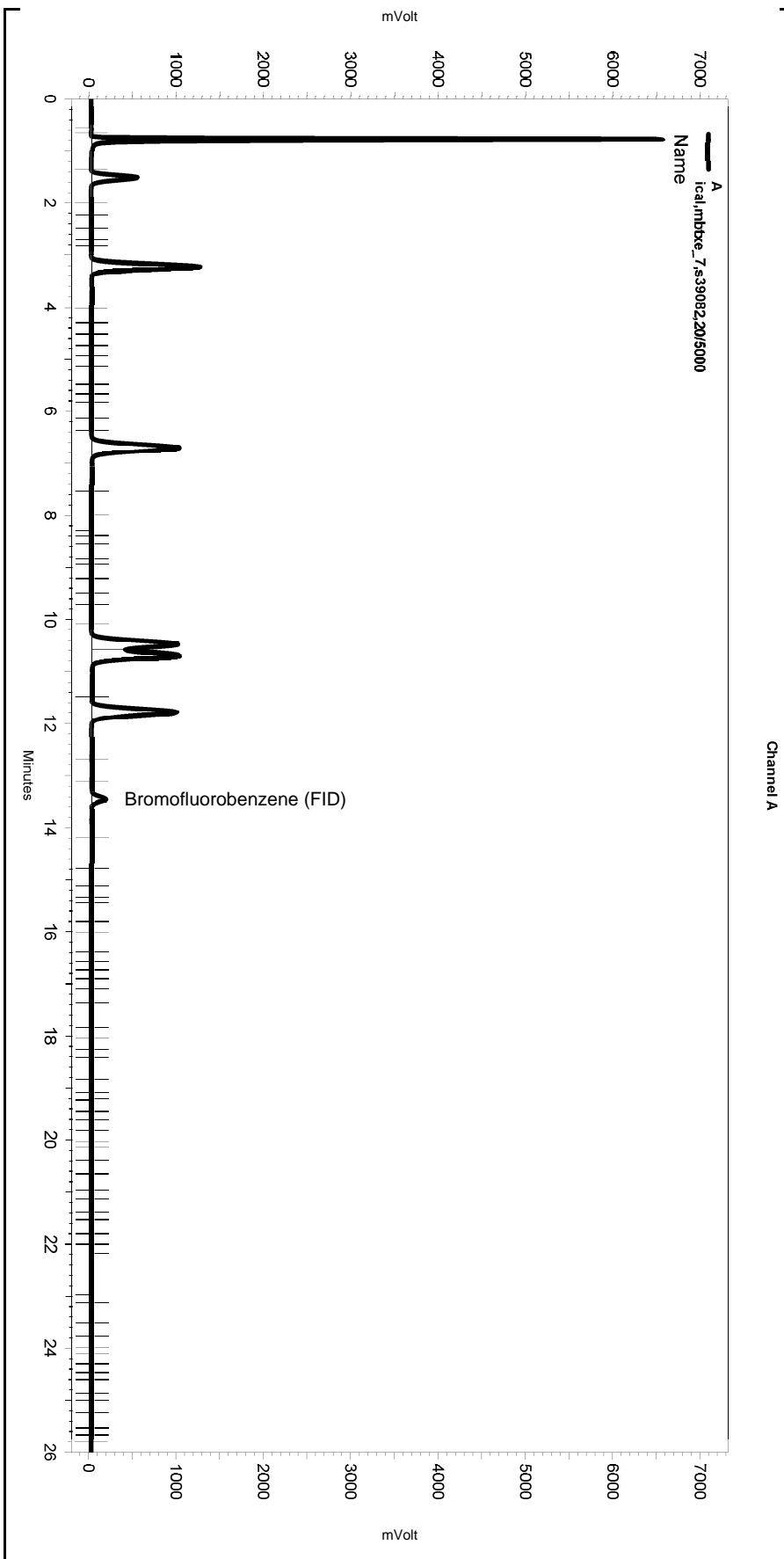
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.500	1.517	19853798	2000.000 CAL
Benzene	3.217	3.217	65066316	2000.000 CAL
Toluene	6.700	6.683	58092460	2000.000 CAL
Ethylbenzene	10.467	10.467	49703939	2000.000 CAL
m,p-Xylenes	10.700	10.683	57344653	2000.000 CAL
o-Xylene	11.783	11.767	48212119	2000.000 CAL
Bromofluorobenzene (PID)	13.450	13.450	16390985	900.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	2038706	2000.000 CAL
Benzene	3.016	3.016	6461399	2000.000 CAL
Toluene	6.183	6.200	6139137	2000.000 CAL
Ethylbenzene	9.783	9.783	5265426	2000.000 CAL
m,p-Xylenes	10.133	10.149	6188389	2000.000 CAL
o-Xylene	10.966	10.983	5173354	2000.000 CAL
Bromofluorobenzene (PID)	11.866	11.849	1716151	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\088.seq
 Sample Name: ical,mbtxe_7,s39082,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lms2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 8:28:50 AM
 Analysis Date: 4/1/2019 11:37:19 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

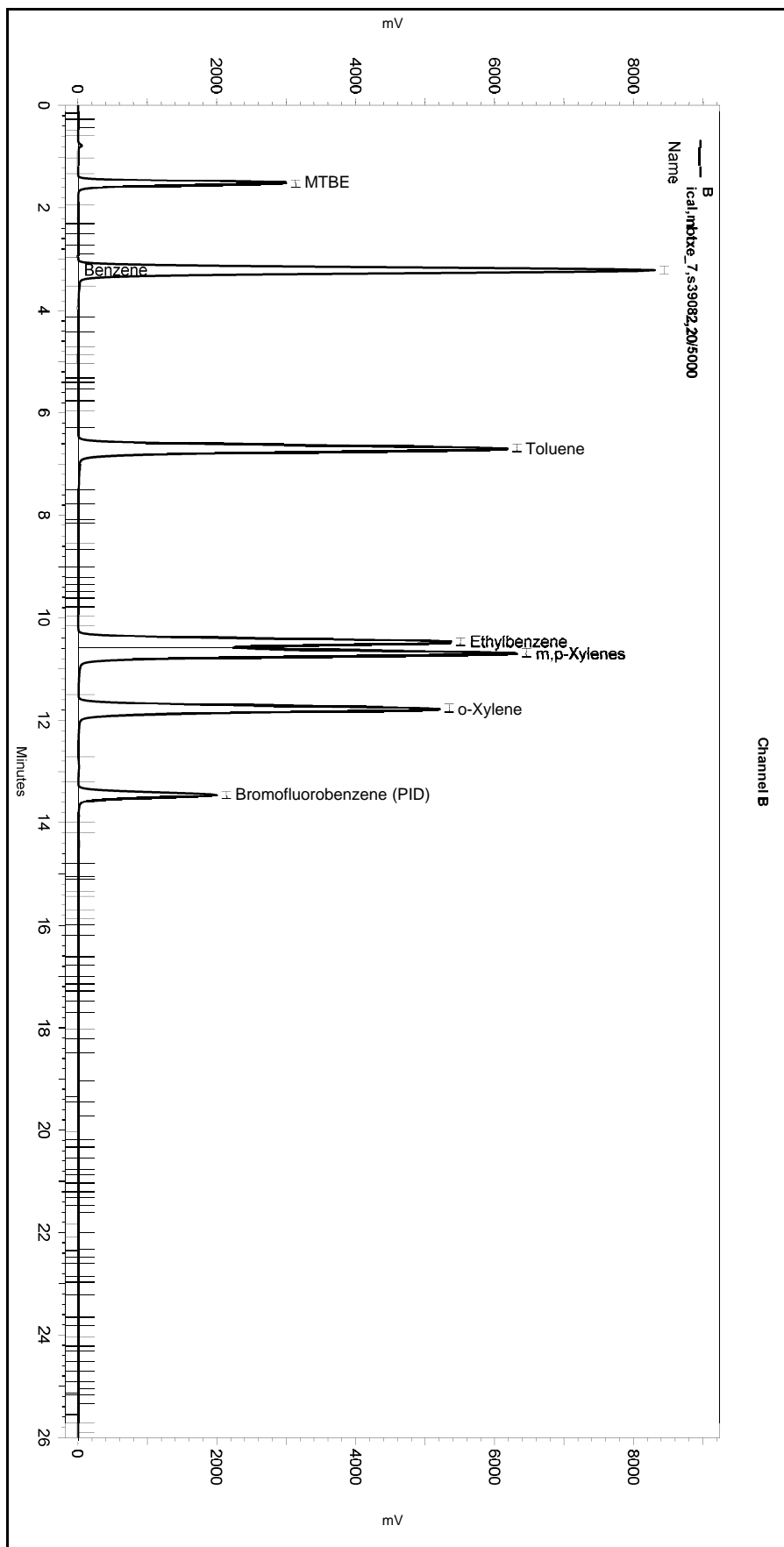
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_7,s39082,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 8:28:50 AM
 Analysis Date: 4/1/2019 11:37:19 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >

No items selected for this section

 ---< B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

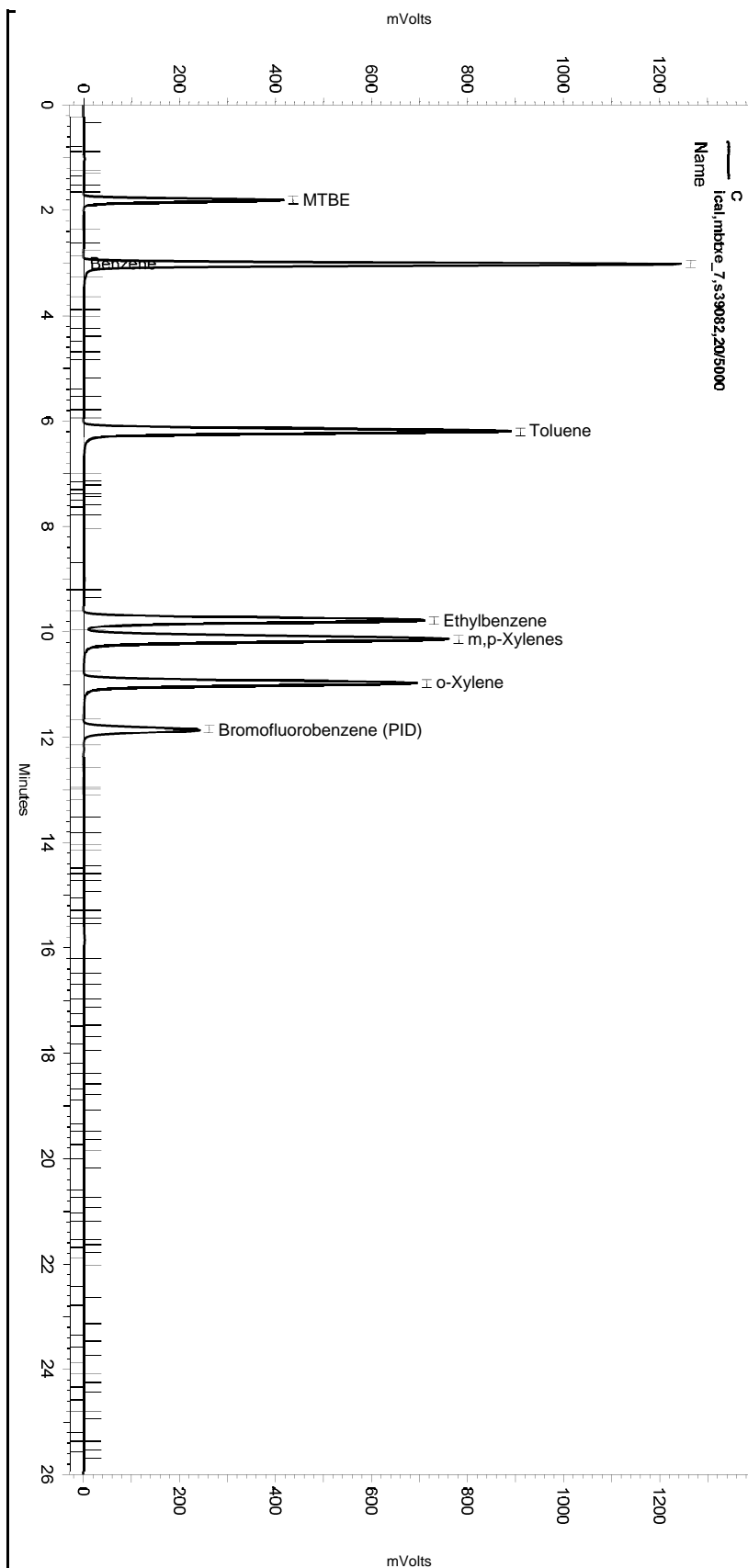
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_7,s39082,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 8:28:50 AM
 Analysis Date: 4/1/2019 11:37:19 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	9.598	10.742	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: ical,mbtxe_7,s39082,20/5000	Run Date: 3/30/2019 8:28:50 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032	Analysis Date: 4/1/2019 11:15:15 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.450	13.450	1395583	0.000 CAL
GAS:6-10			50350544	0.000 CAL
GAS:6-12			50460692	0.000 CAL
GAS:7-12			46837340	0.000 CAL
JP4:7-12			46837340	0.000 CAL
AVGAS:6-10			50350544	0.000 CAL
AVGAS:7-12			46837340	0.000 CAL

BTXE Instrument Results
Channel B: RTX-502.2 PID

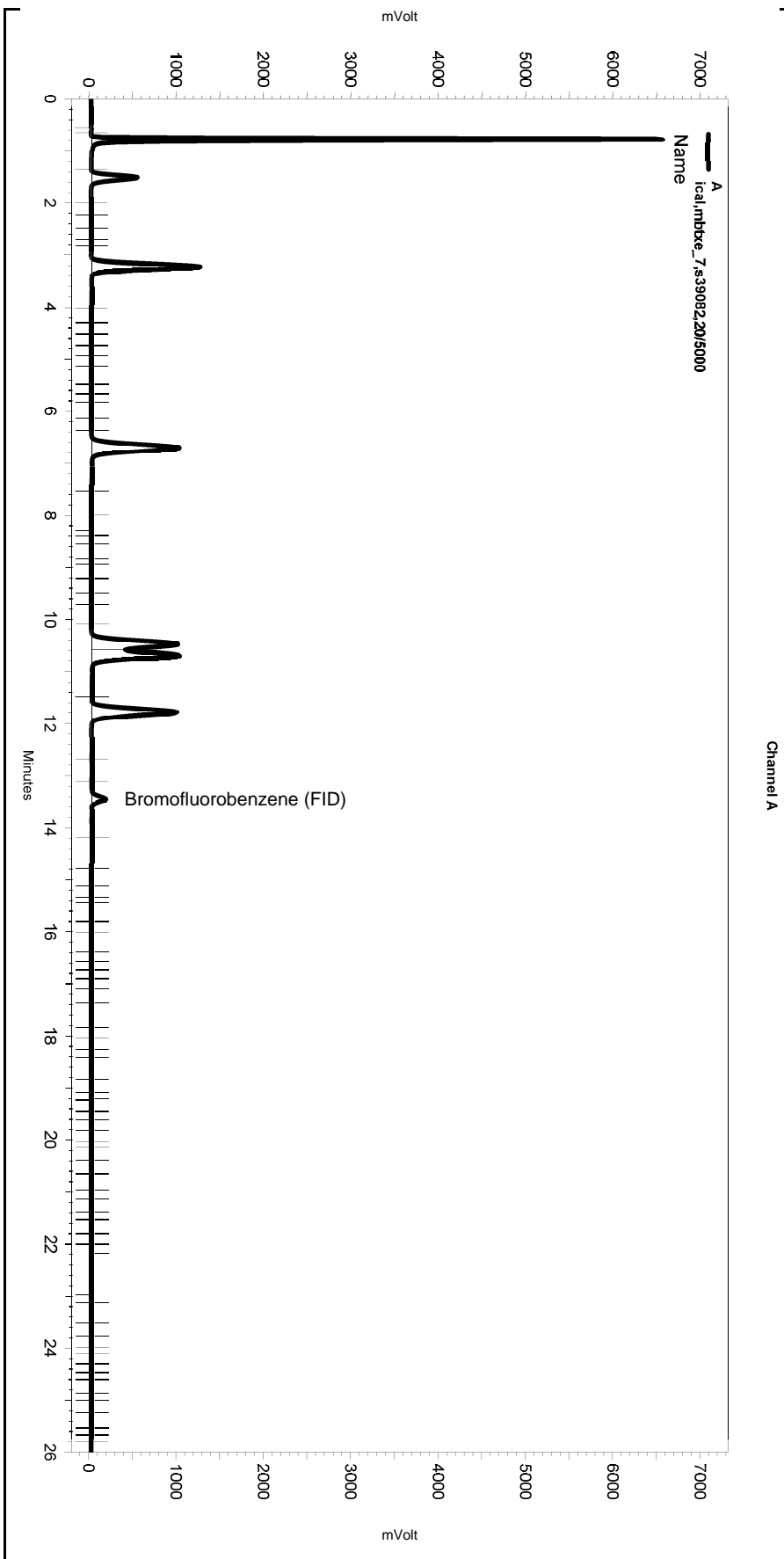
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.500	1.517	19853798	2000.000 CAL
Benzene	3.217	3.217	65066316	2000.000 CAL
Toluene	6.700	6.683	58092460	2000.000 CAL
Ethylbenzene	10.467	10.467	49703939	2000.000 CAL
m,p-Xylenes	10.700	10.683	57344653	2000.000 CAL
o-Xylene	11.783	11.767	48212119	2000.000 CAL
Bromofluorobenzene (PID)	13.450	13.450	16390985	900.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	2038706	2000.000 CAL
Benzene	3.016	3.016	6461399	2000.000 CAL
Toluene	6.183	6.200	6139137	2000.000 CAL
Ethylbenzene	9.783	9.783	5148070	2000.000 CAL
m,p-Xylenes	10.133	10.149	5996897	2000.000 CAL
o-Xylene	10.966	10.983	5173354	2000.000 CAL
Bromofluorobenzene (PID)	11.866	11.849	1716151	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\088.seq
 Sample Name: ical,mbtxe_7,s39082,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lms2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 8:28:50 AM
 Analysis Date: 4/1/2019 11:15:15 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

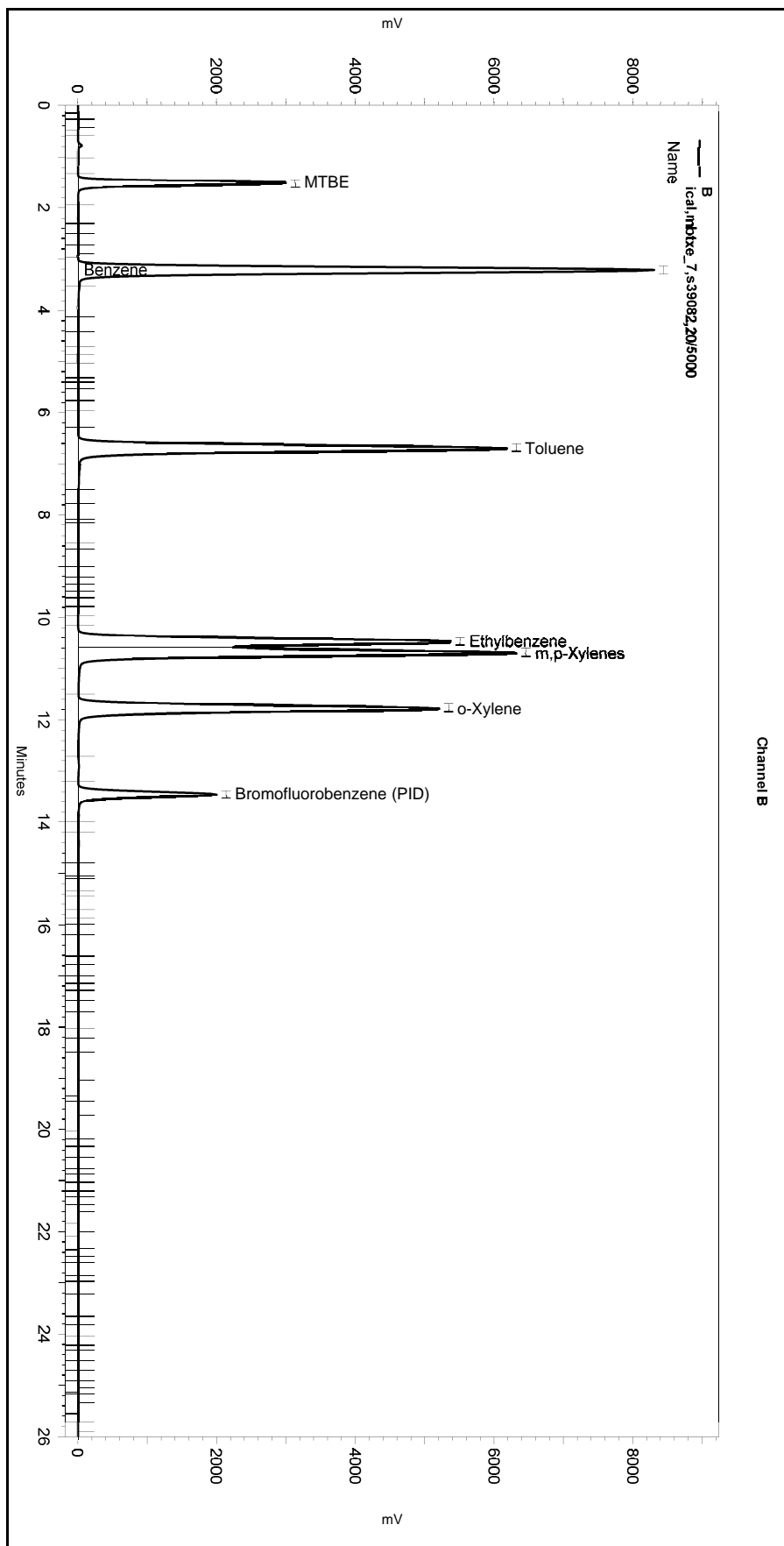
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_7,s39082,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 8:28:50 AM
 Analysis Date: 4/1/2019 11:15:15 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >

No items selected for this section

 ---< B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

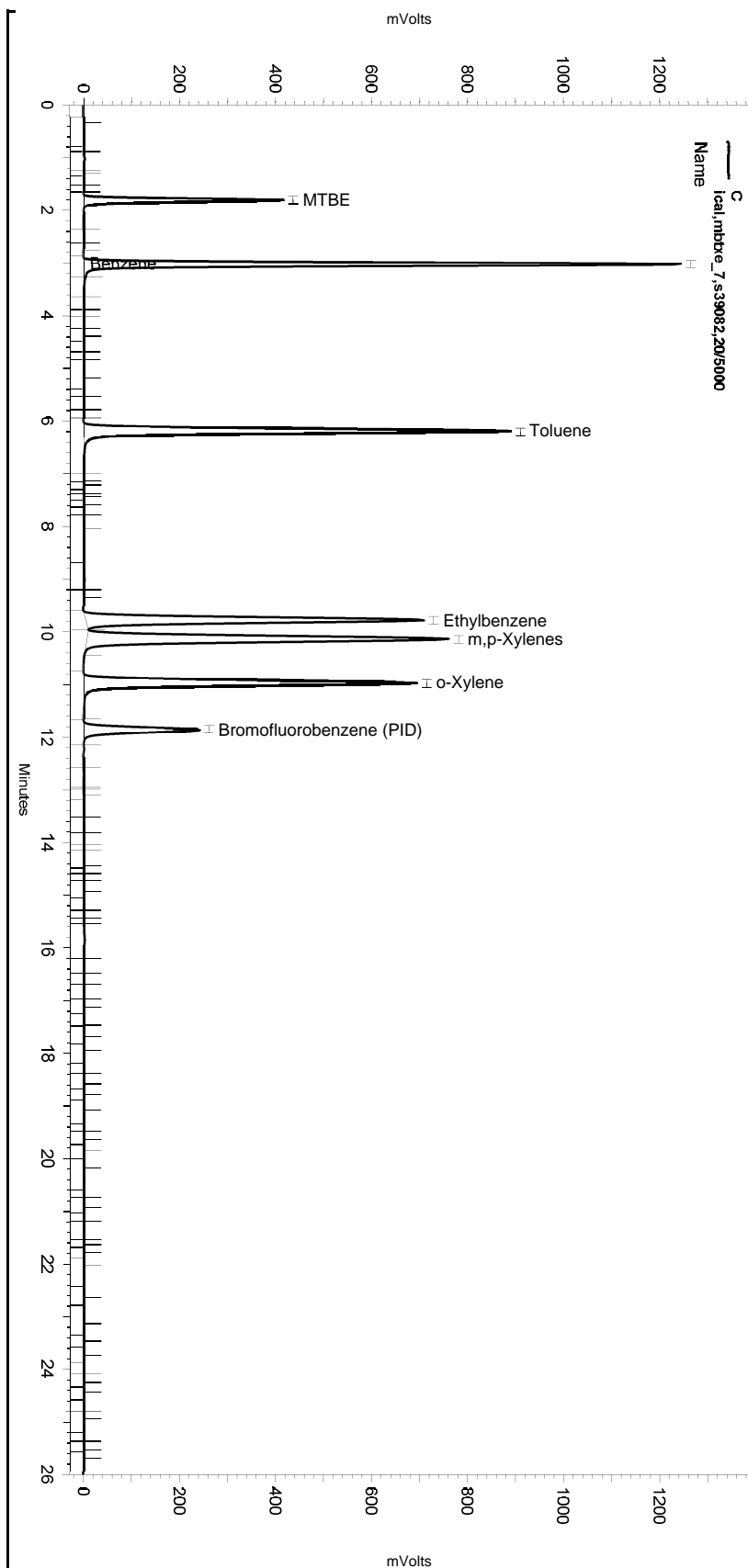
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mbtxe_7,s39082,20/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lms2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 8:28:50 AM
 Analysis Date: 4/1/2019 11:15:15 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

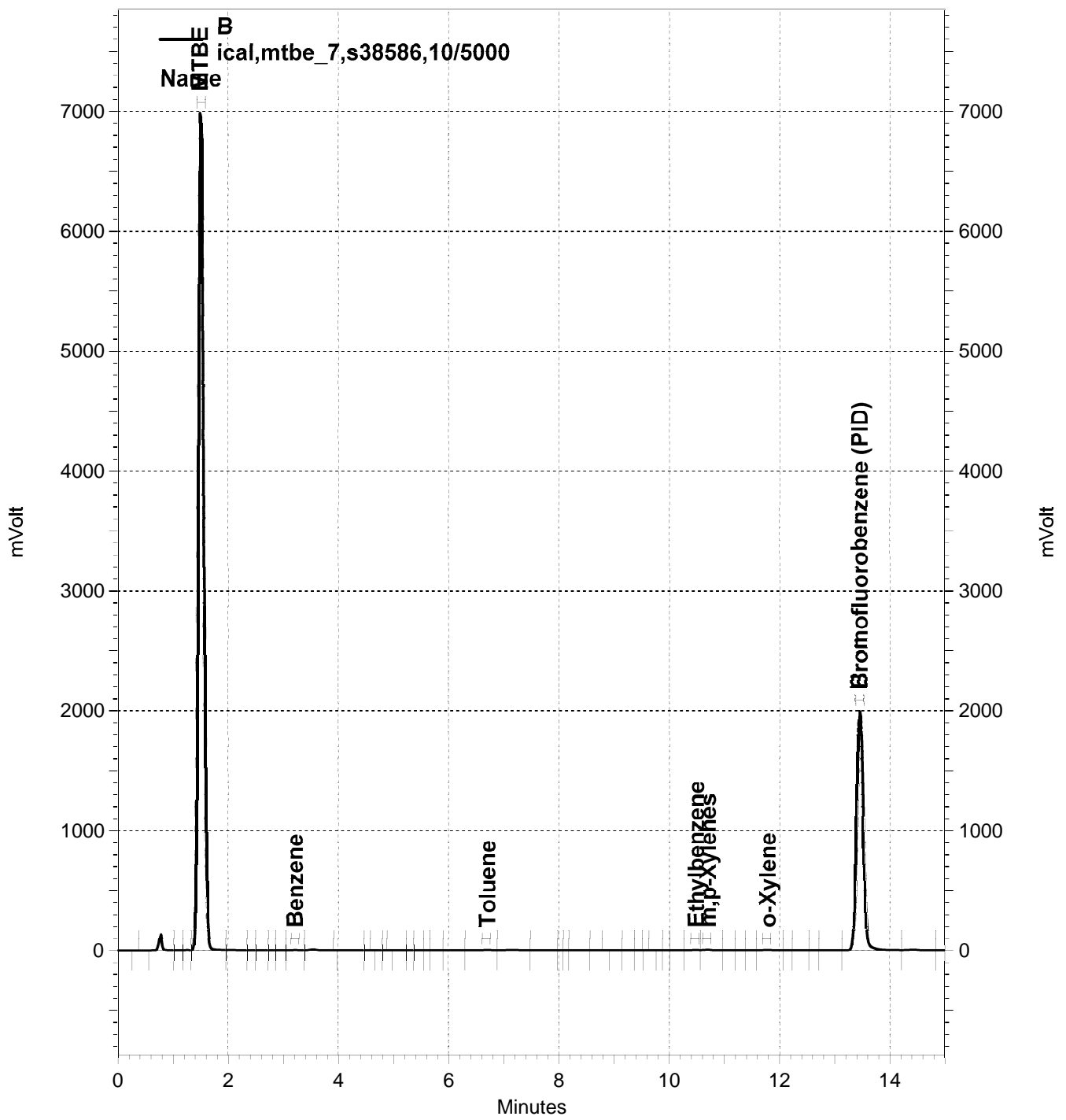
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

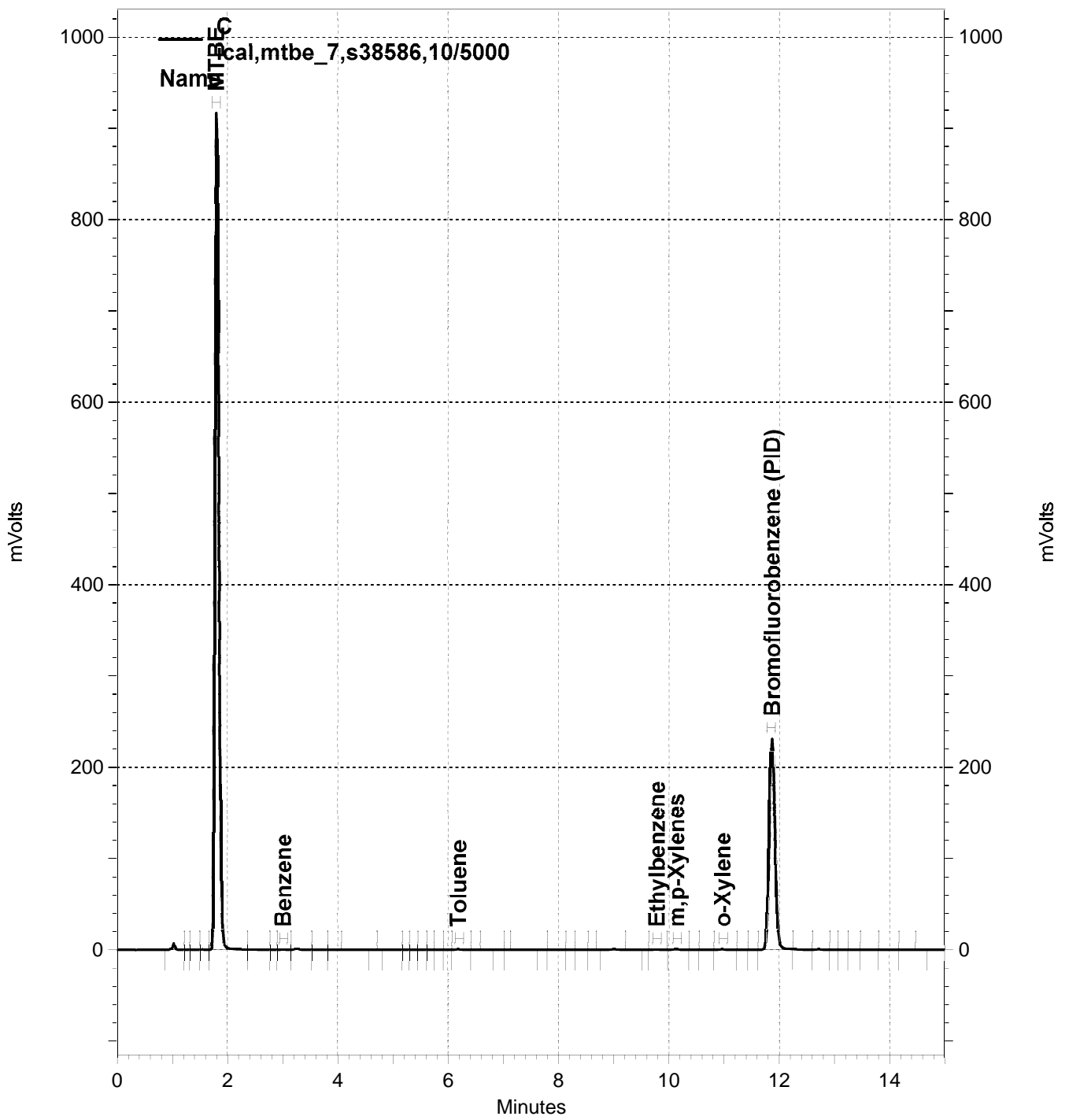
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-033, B



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-033, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: ical,mtbe_7,s38586,10/5000	Run Date: 3/30/2019 9:06:21 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-033	Analysis Date: 4/1/2019 11:37:23 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.450	13.450	1349090	0.000 CAL
GAS:6-10			9000115	0.000 CAL
GAS:6-12			9089218	0.000 CAL
GAS:7-12			289394	0.000 CAL
JP4:7-12			289394	0.000 CAL
AVGAS:6-10			9000115	0.000 CAL
AVGAS:7-12			289394	0.000 CAL

BTXE Instrument Results
Channel B: RTX-502.2 PID

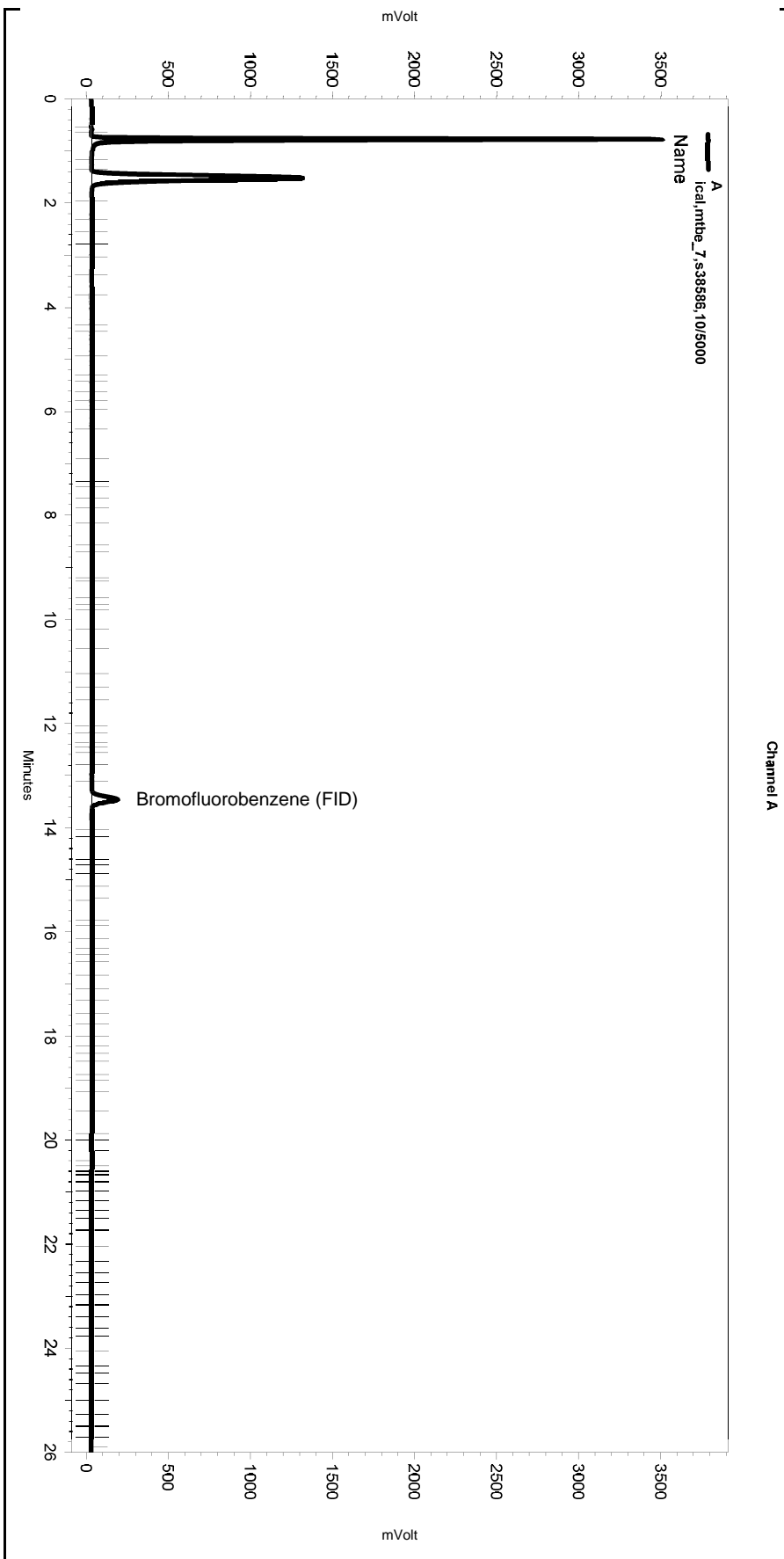
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.500	1.517	47658410	5000.000 CAL
Benzene	3.217	3.217	20703	0.000 CAL
Toluene	6.700	6.683	33455	0.000 CAL
Ethylbenzene	10.483	10.467	23337	0.000 CAL
m,p-Xylenes	10.700	10.683	47508	0.000 CAL
o-Xylene	11.783	11.767	35489	0.000 CAL
Bromofluorobenzene (PID)	13.450	13.450	16396502	900.000 CAL

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	4692781	5000.000 CAL
Benzene	3.016	3.016	2549	0.000 CAL
Toluene	6.183	6.200	3994	0.000 CAL
Ethylbenzene	9.783	9.783	2602	0.000 CAL
m,p-Xylenes	10.133	10.149	5090	0.000 CAL
o-Xylene	10.966	10.983	4050	0.000 CAL
Bromofluorobenzene (PID)	11.866	11.849	1679446	900.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mtbe_7,s38586,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-033
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 9:06:21 AM
 Analysis Date: 4/1/2019 11:37:23 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled		Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width		0	0	0.2
Yes	Threshold		0	0	50

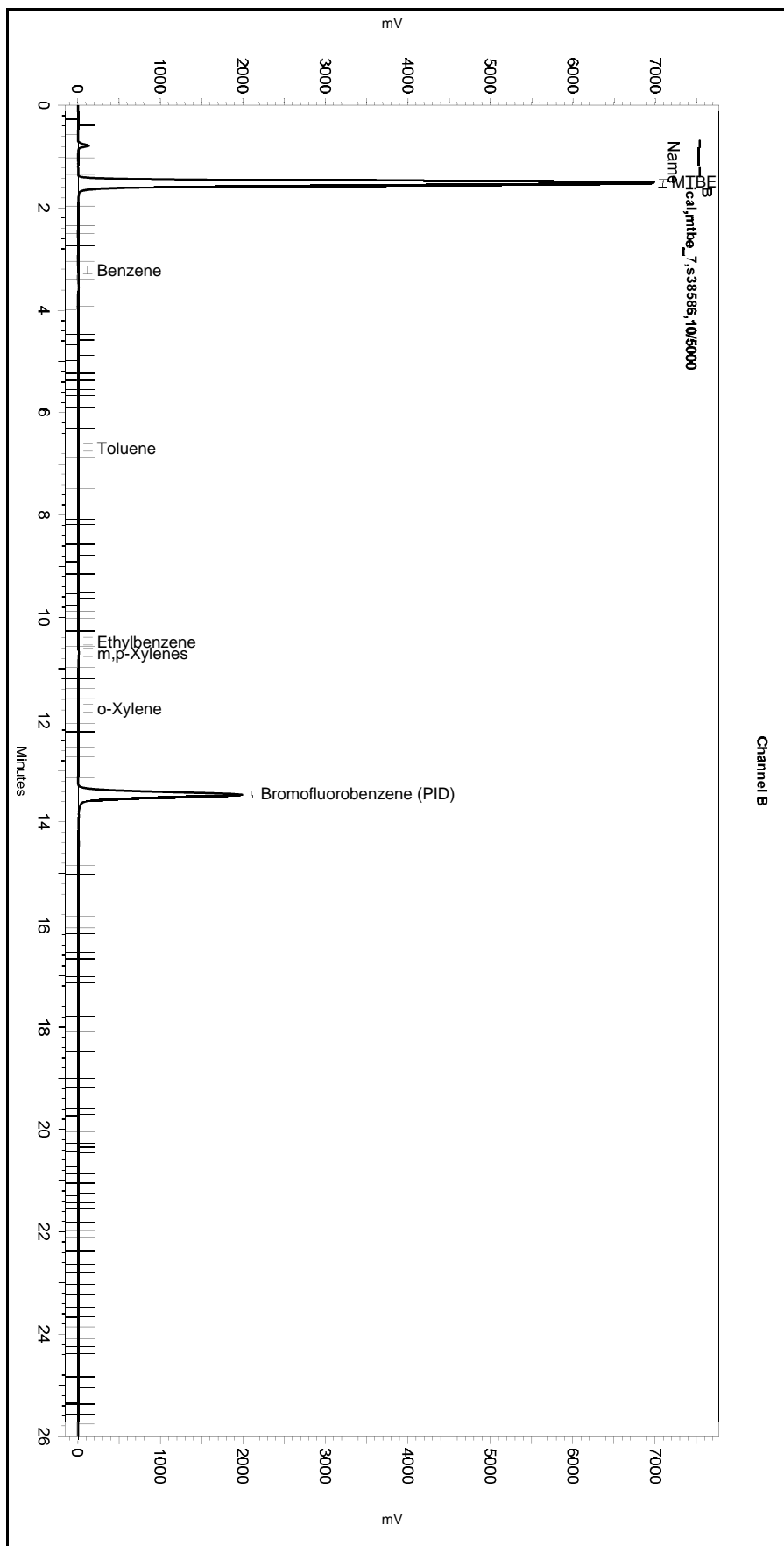
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-033

Enabled		Event Type	Start (Minutes)	Stop (Minutes)	Value
None					

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mtbe_7,s38586,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-033
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 9:06:21 AM
 Analysis Date: 4/1/2019 11:37:23 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

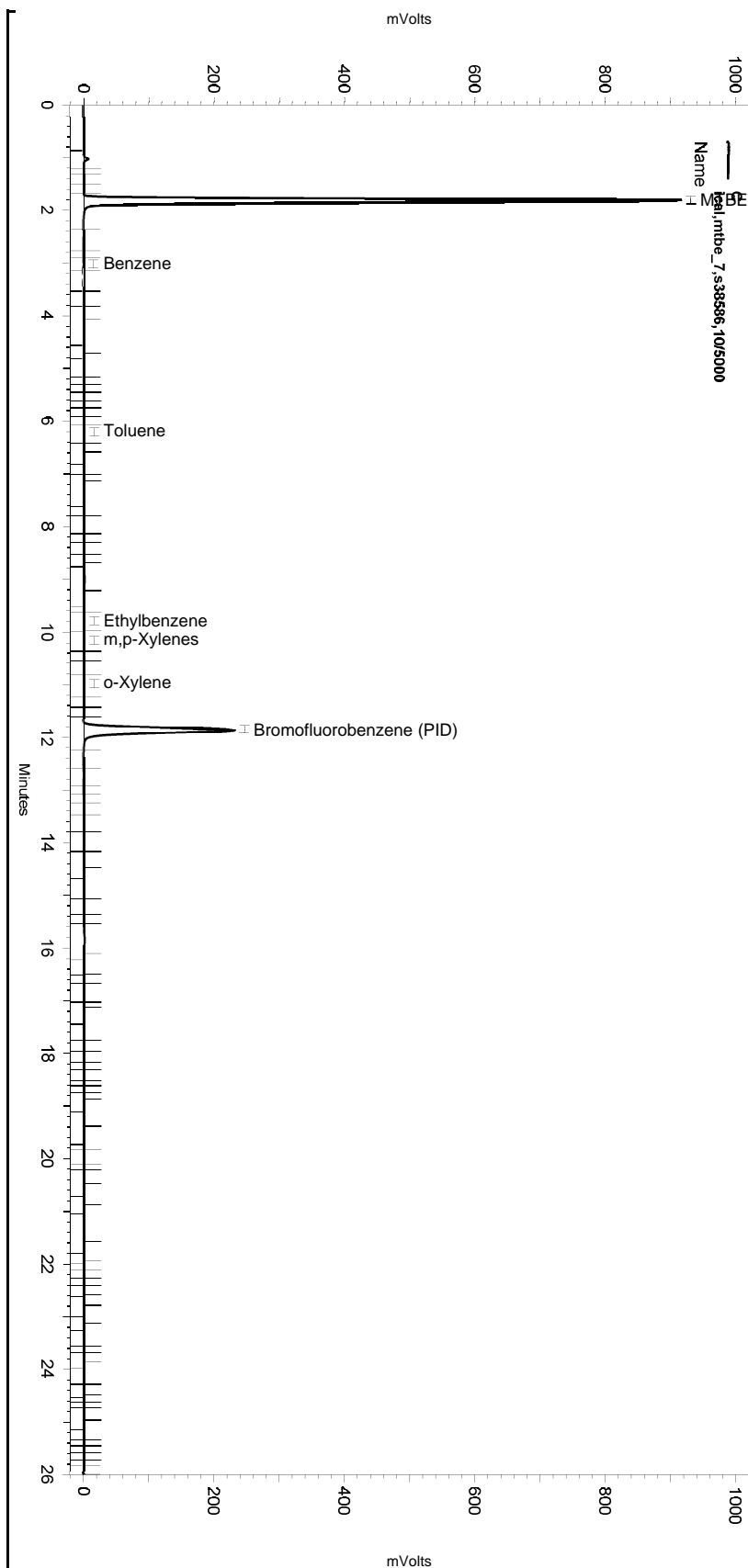
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-033

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: ical,mtbe_7,s38586,10/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-033
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lms2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 9:06:21 AM
 Analysis Date: 4/1/2019 11:37:23 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

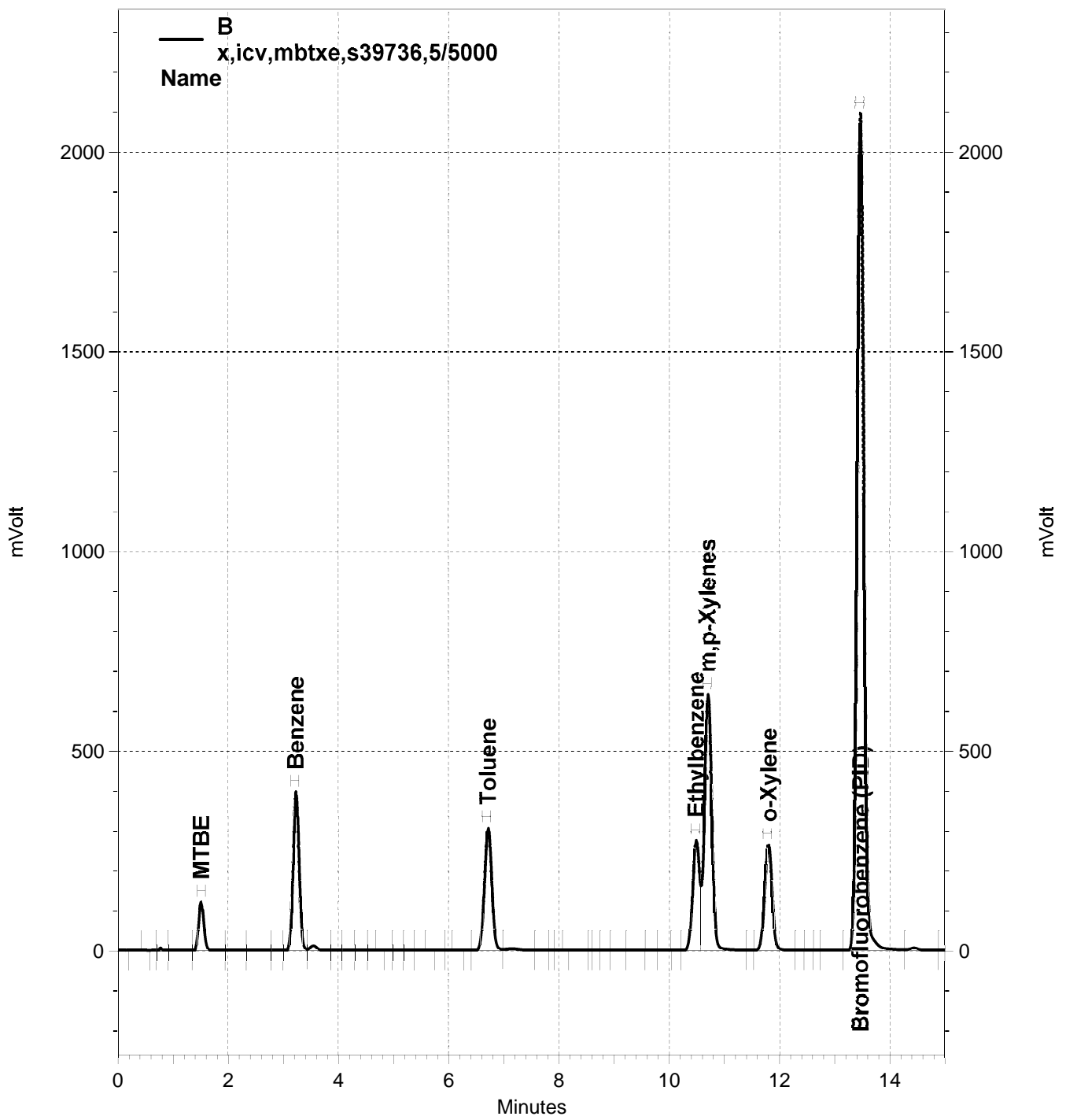
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

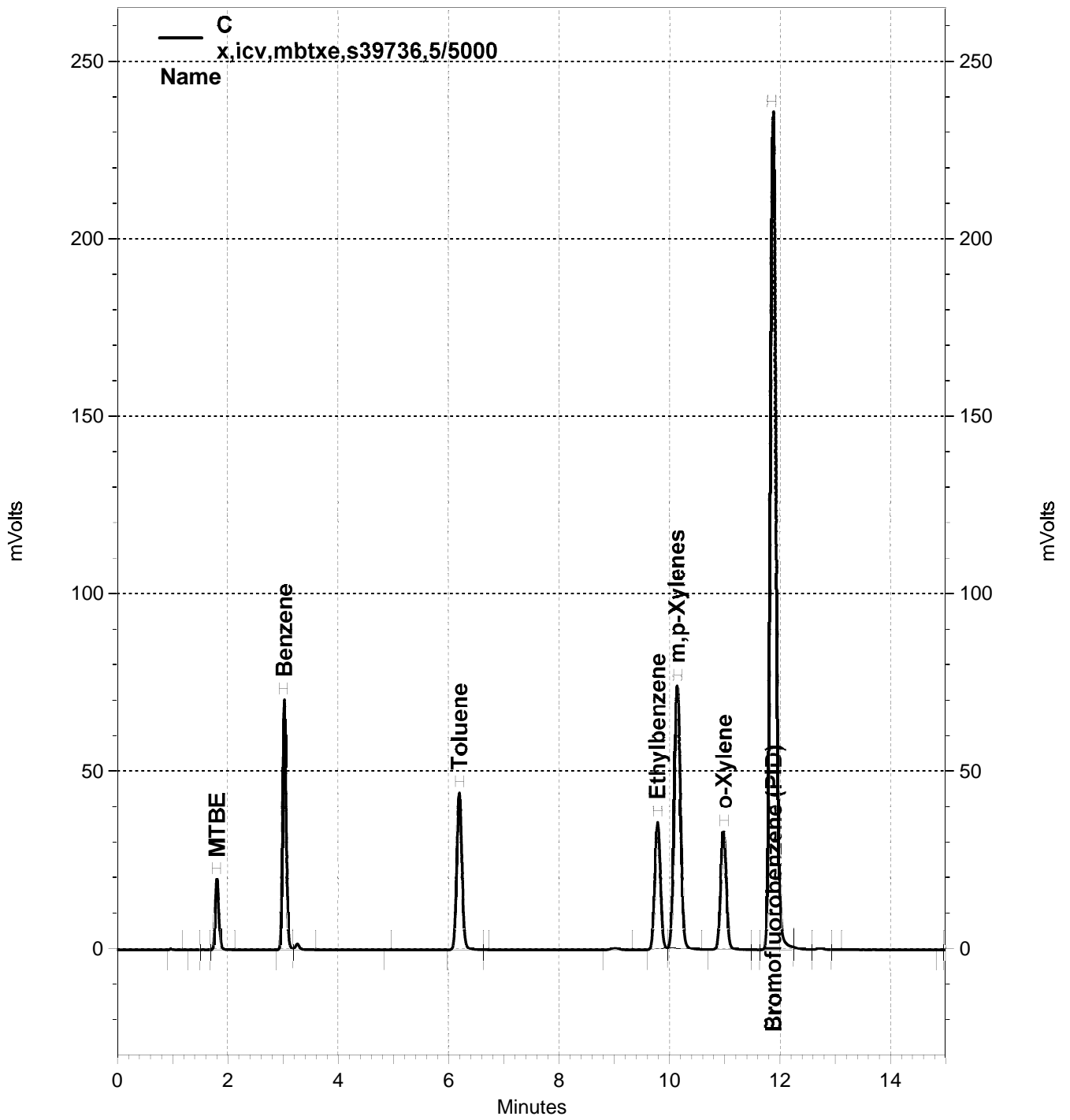
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-033

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-036, B



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-036, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq	Software Version 3.1.7
Sample Name: icv,mbtxe,s39736,5/5000	Run Date: 3/30/2019 10:59:03 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-036	Analysis Date: 4/1/2019 11:37:34 AM
Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.467	13.450	1387016	773.647
GAS:6-10			3023734	1335.992
GAS:6-12			3104321	1188.346
GAS:7-12			2899828	1436.466
JP4:7-12			2899828	651.956
AVGAS:6-10			3023734	756.576
AVGAS:7-12			2899828	1182.716

BTXE Instrument Results
Channel B: RTX-502.2 PID

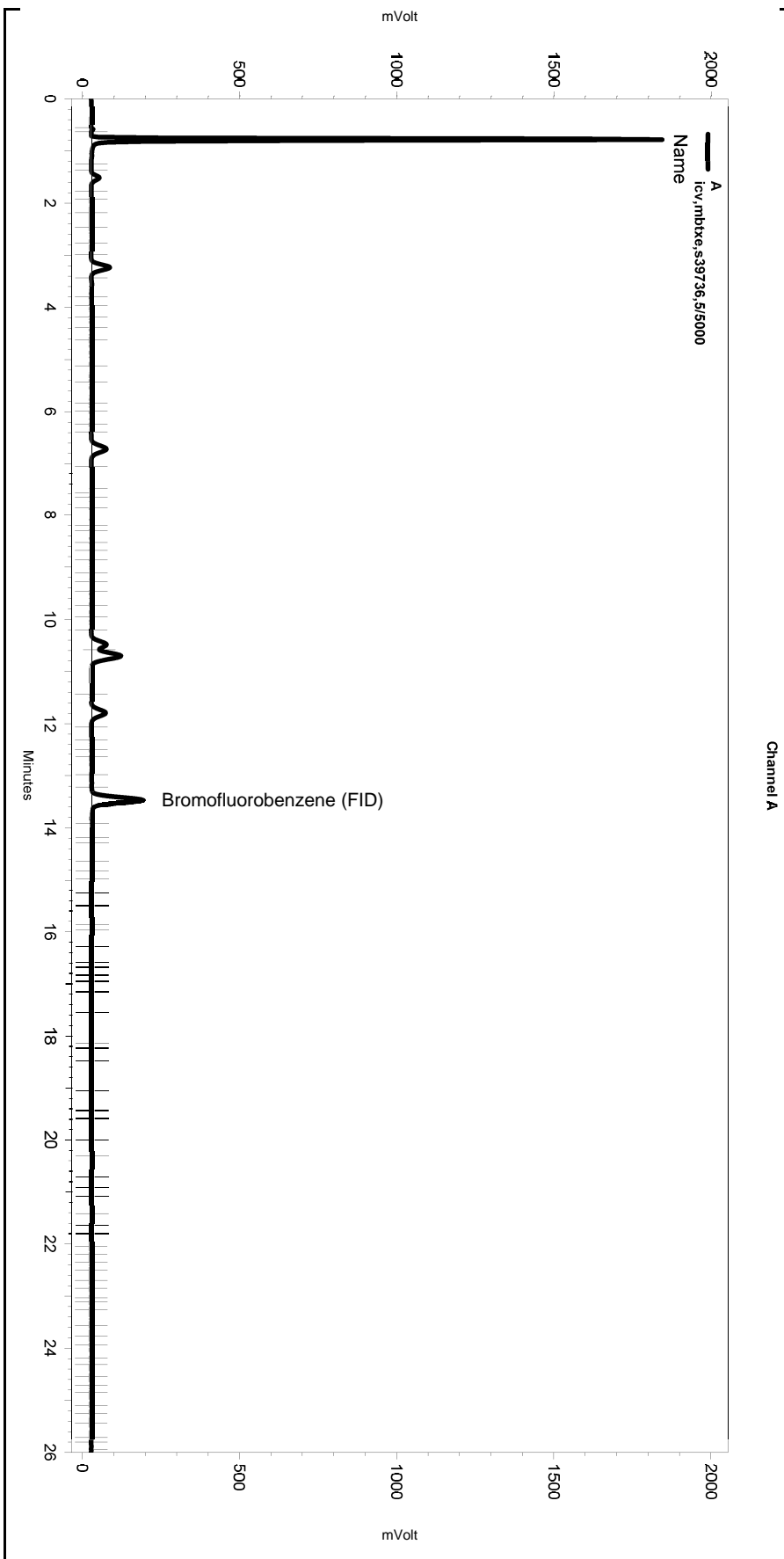
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.517	1.517	808051	86.998
Benzene	3.233	3.217	3009798	96.201
Toluene	6.717	6.683	2822512	98.581
Ethylbenzene	10.483	10.467	2290489	92.931
m,p-Xylenes	10.700	10.683	6075700	207.409
o-Xylene	11.800	11.767	2504609	100.802
Bromofluorobenzene (PID)	13.467	13.450	17644680	942.218

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.817	1.800	95661	97.306
Benzene	3.033	3.016	325705	100.037
Toluene	6.200	6.200	295648	100.019
Ethylbenzene	9.783	9.783	248044	100.591
m,p-Xylenes	10.133	10.149	585087	200.394
o-Xylene	10.983	10.983	241670	95.869
Bromofluorobenzene (PID)	11.883	11.849	1726043	925.361

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\088.seq
 Sample Name: icv,mbtxe,s39736,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-036
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 10:59:03 AM
 Analysis Date: 4/1/2019 11:37:34 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

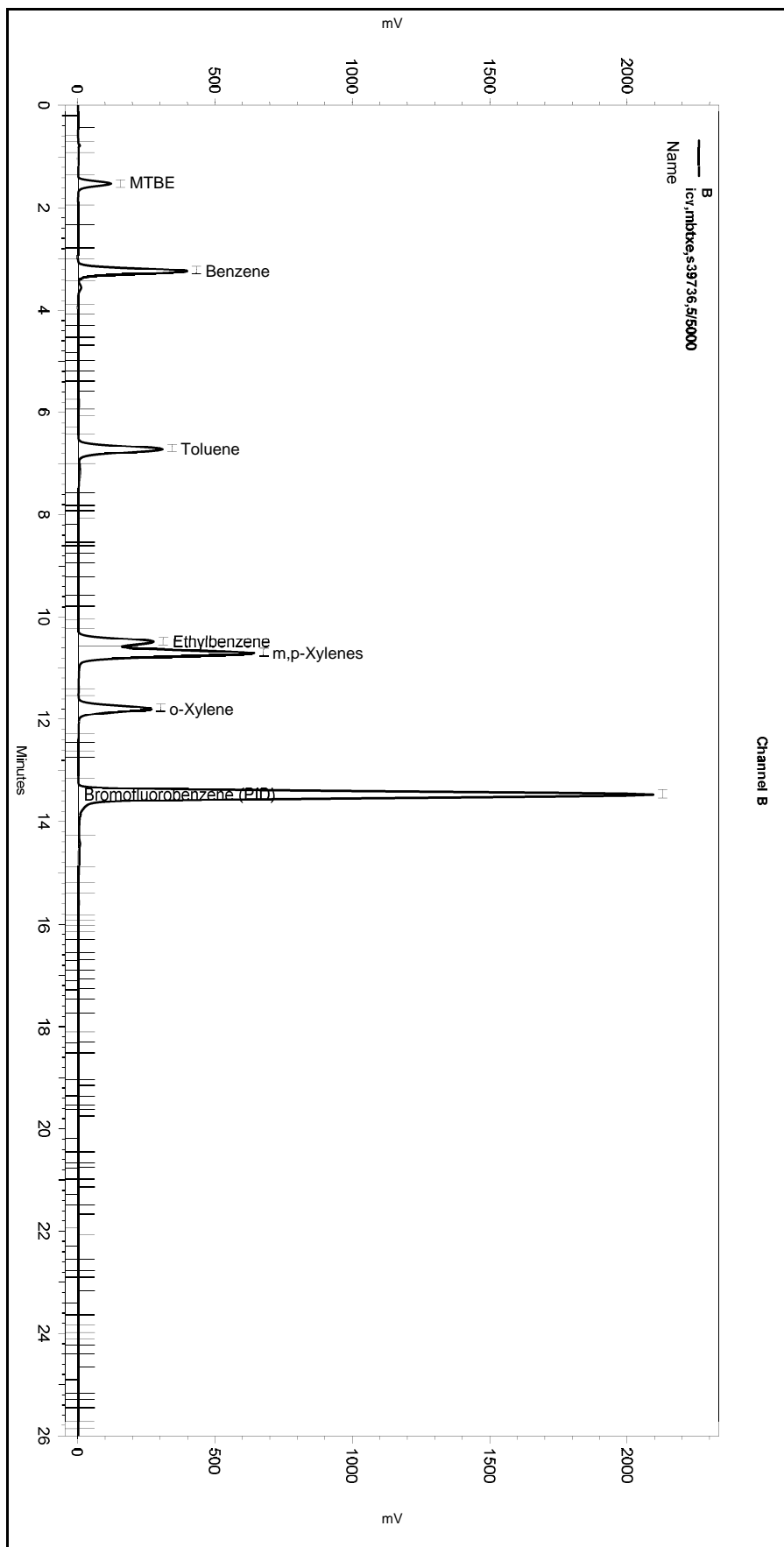
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: icv,mbtxe,s39736,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-036
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lms2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 10:59:03 AM
 Analysis Date: 4/1/2019 11:37:34 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

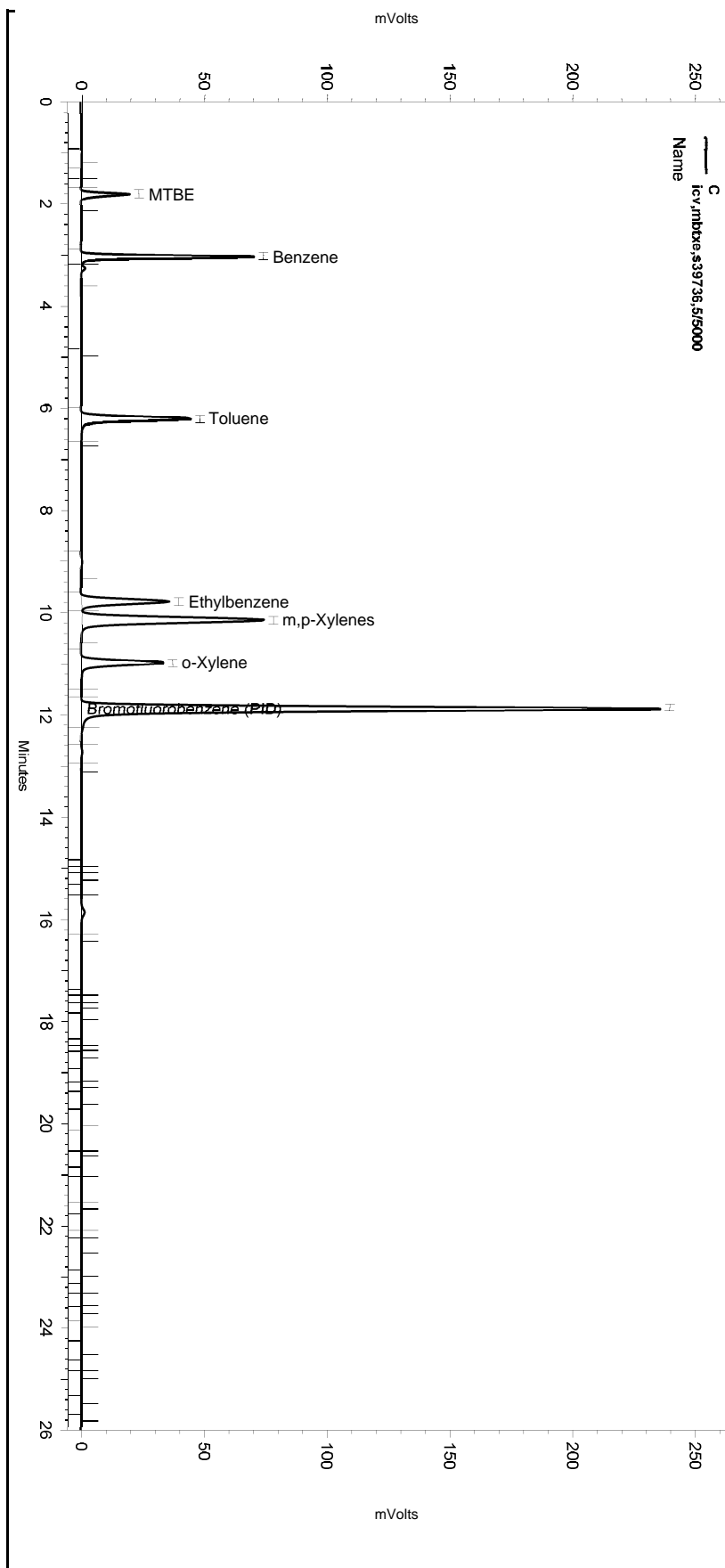
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\088.seq
 Sample Name: icv,mbtbe,s39736,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-036
 Instrument: GC05 (Offline) Vial: N/A Operator: tvh analyst (lms2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\vhbtbe088.met

Software Version 3.1.7
 Run Date: 3/30/2019 10:59:03 AM
 Analysis Date: 4/1/2019 11:37:34 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\088-036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

ENTHALPY INITIAL CALIBRATION FOR 309066 GCVOA Water: EPA 8015B

Inst : GC07
 Calnum : 329076864001
 Units : ng

Name : tvhbtxe053
 Date : 23-FEB-2019 03:16
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	053_028	329076864028	TVH_14	23-FEB-2019 03:16	S39162 (1000X), S39864 (5000X)
L2	053_029	329076864029	TVH_15	23-FEB-2019 03:55	S39161 (1000X), S39864 (5000X)
L3	053_030	329076864030	TVH_16	23-FEB-2019 04:33	S39160 (1000X), S39864 (5000X)
L4	053_031	329076864031	TVH_17	23-FEB-2019 05:12	S39159 (2000X), S39864 (5000X)
L5	053_032	329076864032	TVH_18	23-FEB-2019 05:50	S39159 (1000X), S39864 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r ² %RSD	MnR ²	MxRSD	Flg
Gasoline C7-C12	A	2764.2	1970.9	1977.2	1828.5	2059.8	AVRG		4.72E-4		2120.1	17	0.995	20	
Bromofluorobenzene (FID)	A	2006.0	2017.8	2067.8	2141.8	2218.6	AVRG		4.78E-4		2090.4	4	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Gasoline C7-C12	A	250.00	30	2500.0	-7	10000	-7	25000	-14	50000	-3
Bromofluorobenzene (FID)	A	900.00	-4	900.00	-3	900.00	-1	900.00	2	900.00	6

Analyst: JM2

Date: 02/25/19

Reviewer: EAH

Date: 02/25/19

Instrument amount = a0 + response * a1 + response² * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 309066 GCVOA Water
EPA 8015B

Inst : GC07
Calnum : 329076864001

Name : tvhbtxe053
Cal Date : 23-FEB-2019

ICV 329076864035 (053_035 23-FEB-2019) stds: S39163 (1000X), S39864 (5000X)

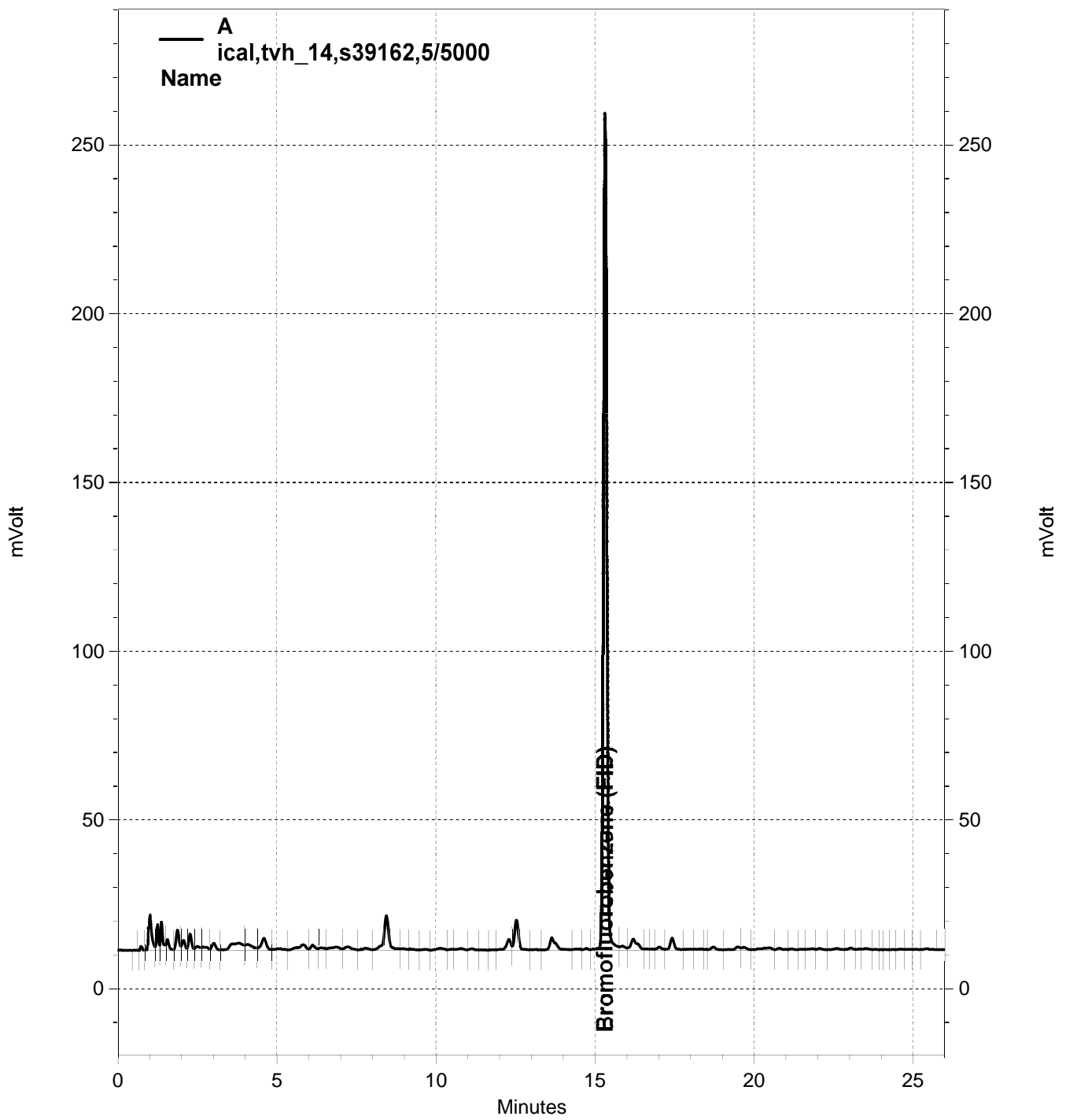
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Gasoline C7-C12	A	10000	9833	ng	-2	15	

Analyst: JM2

Date: 02/25/19

Reviewer: EAH

Date: 02/25/19



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_14,s39162,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:16:52 AM
 Analysis Date: 2/25/2019 10:23:58 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.317	15.333	1805429	900.000 CAL
GAS:6-10			648161	250.000 CAL
GAS:6-12			849689	250.000 CAL
GAS:7-12			691050	250.000 CAL
JP4:7-12			691050	0.000 CAL
?			0	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.267	2.200	34115	0.000 CAL
Benzene	4.617	4.633	137712	0.000 CAL
Toluene	8.450	8.483	739289	0.000 CAL
Ethylbenzene	12.317	12.333	185631	0.000 CAL
m,p-Xylenes	12.533	12.567	566126	0.000 CAL
o-Xylene	13.650	13.667	200956	0.000 CAL
Bromofluorobenzene (PID)	15.317	15.350	25297981	0.000 CAL

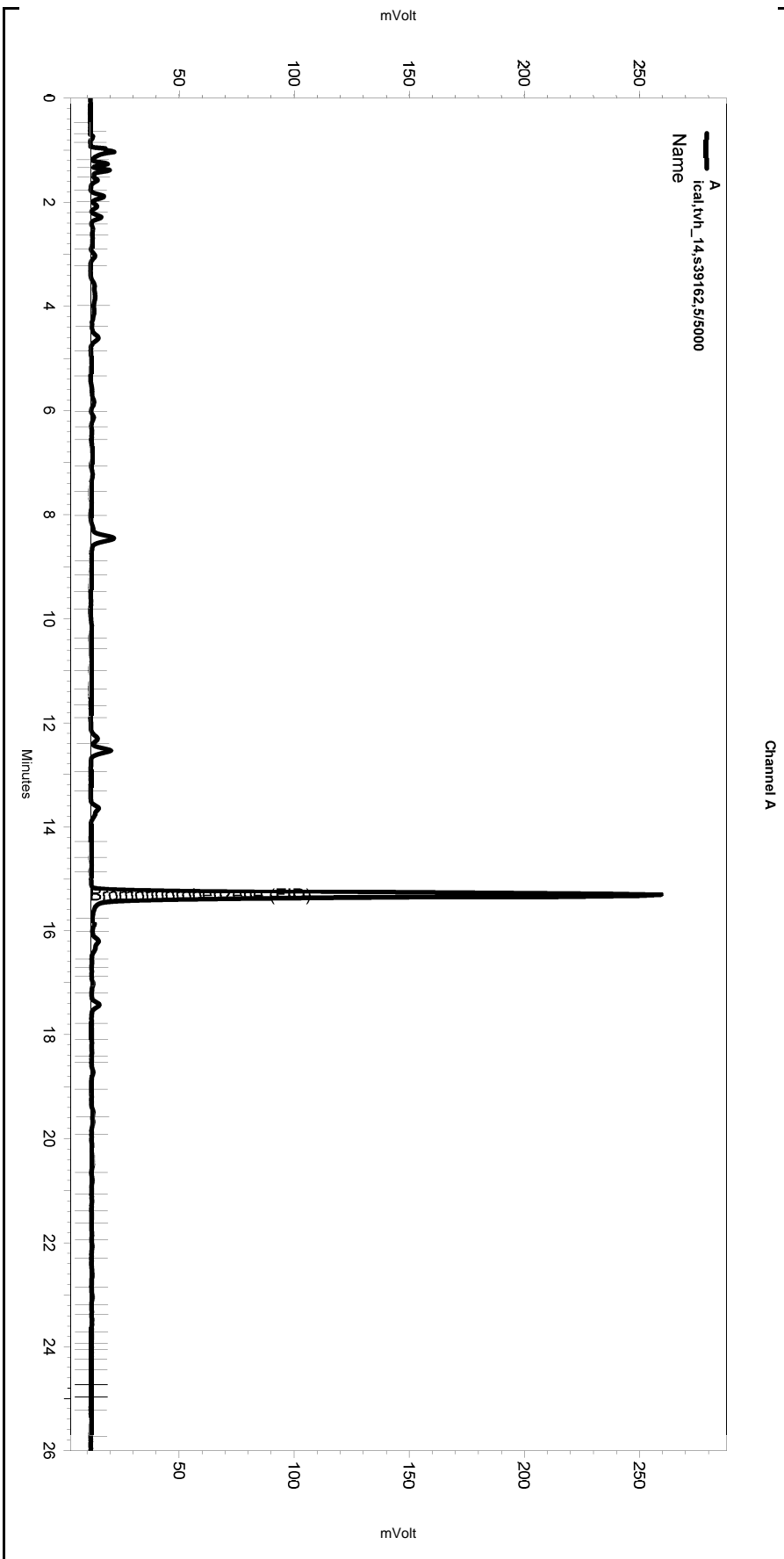
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	2.050	30455	0.000 CAL
Benzene	3.500	3.466	87760	0.000 CAL
Toluene	6.916	6.933	543595	0.000 CAL
Ethylbenzene	10.566	10.566	94553	0.000 CAL
m,p-Xylenes	10.899	10.933	476756	0.000 CAL
o-Xylene	11.766	11.766	218868	0.000 CAL
Bromofluorobenzene (PID)	12.649	12.683	24194994	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_14,s39162,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:16:52 AM
 Analysis Date: 2/25/2019 10:23:58 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

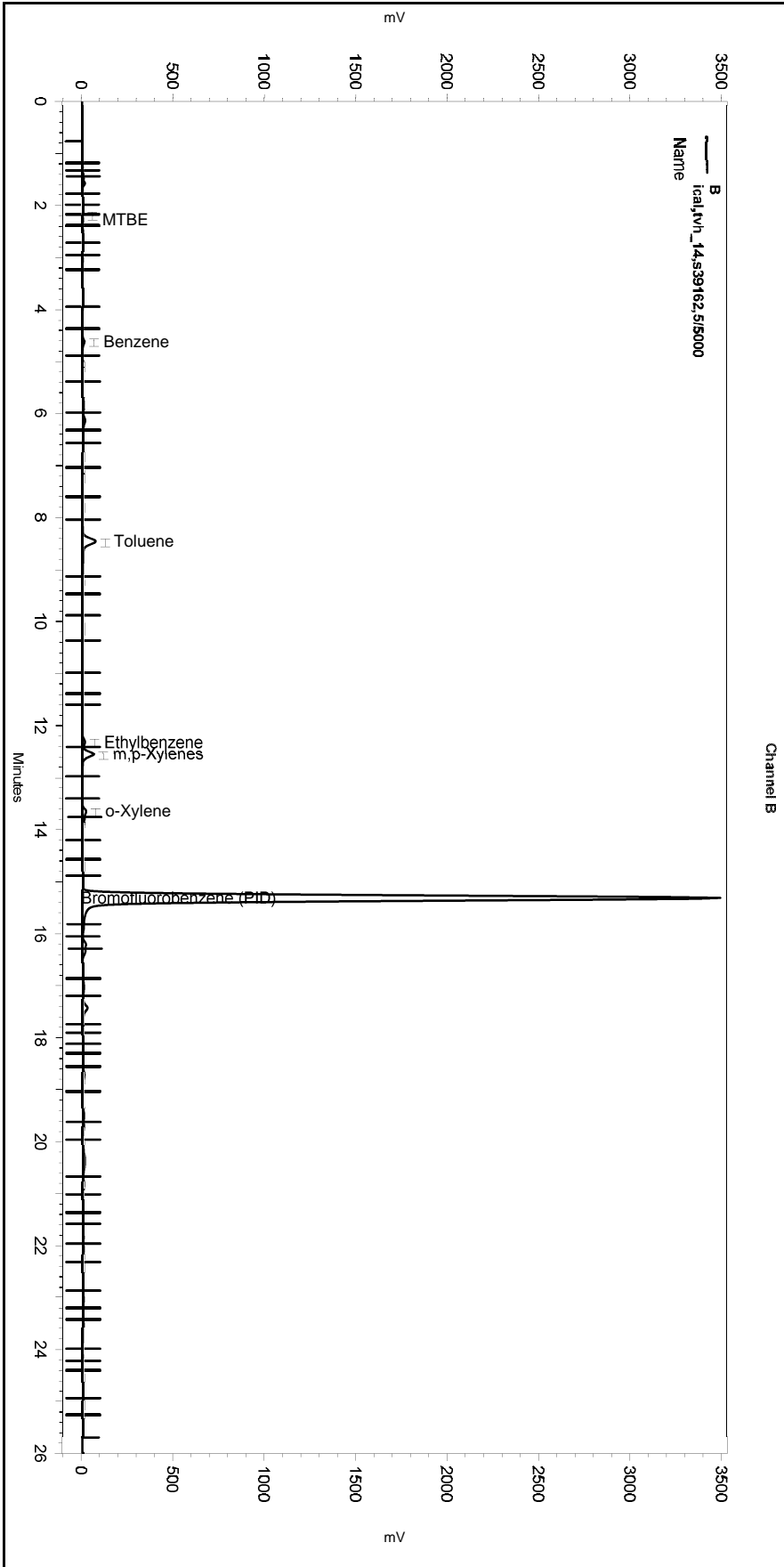
Manual Integration Fixes
 =====

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	0.848	11.665	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_14,s39162,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:16:52 AM
 Analysis Date: 2/25/2019 10:23:58 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

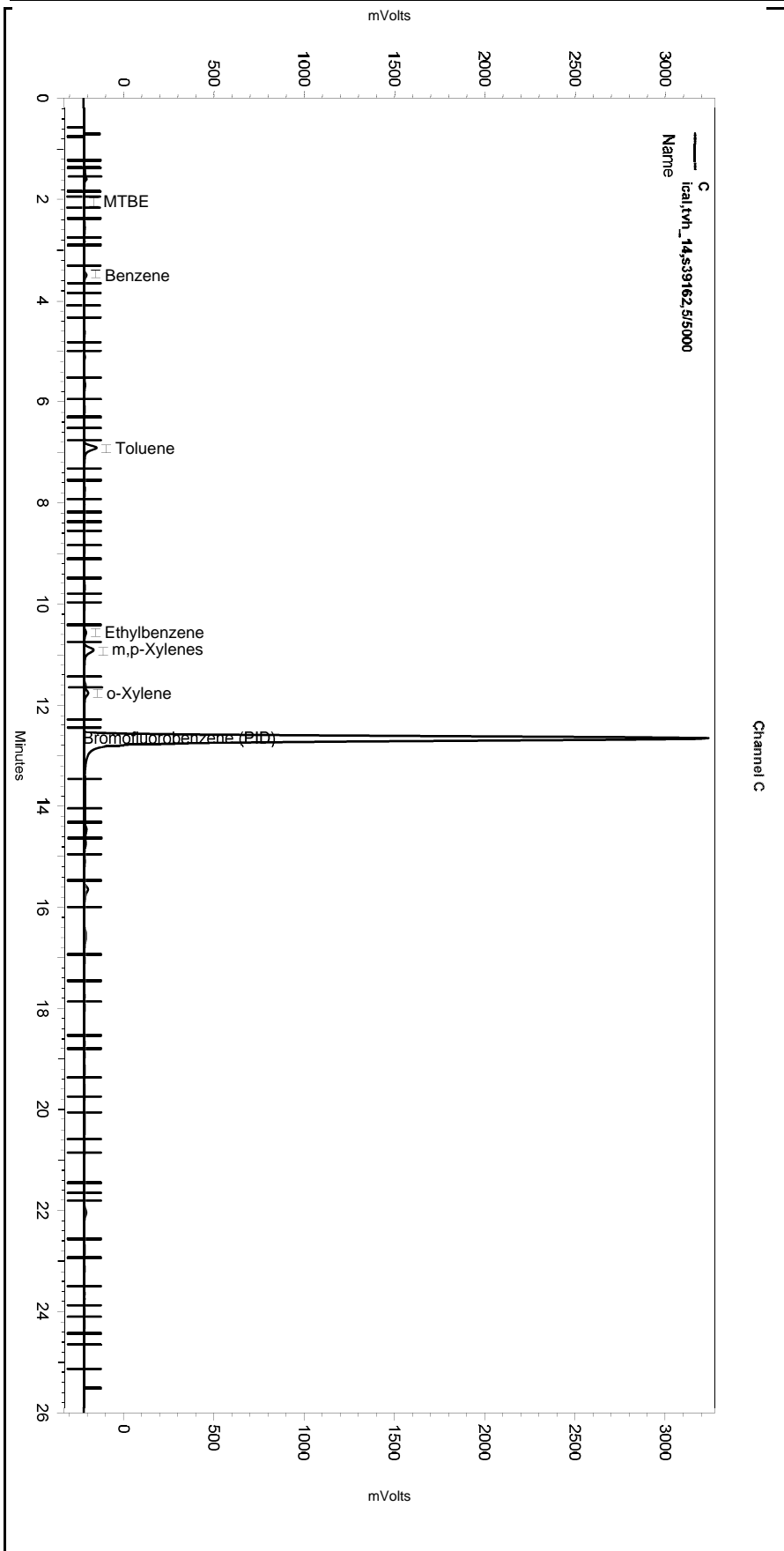
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_14,s39162,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:16:52 AM
 Analysis Date: 2/25/2019 10:23:58 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_14,s39162,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:16:52 AM
 Analysis Date: 2/25/2019 8:25:23 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.317	15.333	1805429	900.000 CAL
GAS:6-10			675574	250.000 CAL
GAS:6-12			877102	250.000 CAL
GAS:7-12			711089	250.000 CAL
JP4:7-12			711089	0.000 CAL
?			0	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.267	2.200	34115	0.000 CAL
Benzene	4.617	4.633	137712	0.000 CAL
Toluene	8.450	8.483	739289	0.000 CAL
Ethylbenzene	12.317	12.333	185631	0.000 CAL
m,p-Xylenes	12.533	12.567	566126	0.000 CAL
o-Xylene	13.650	13.667	200956	0.000 CAL
Bromofluorobenzene (PID)	15.317	15.350	25297981	0.000 CAL

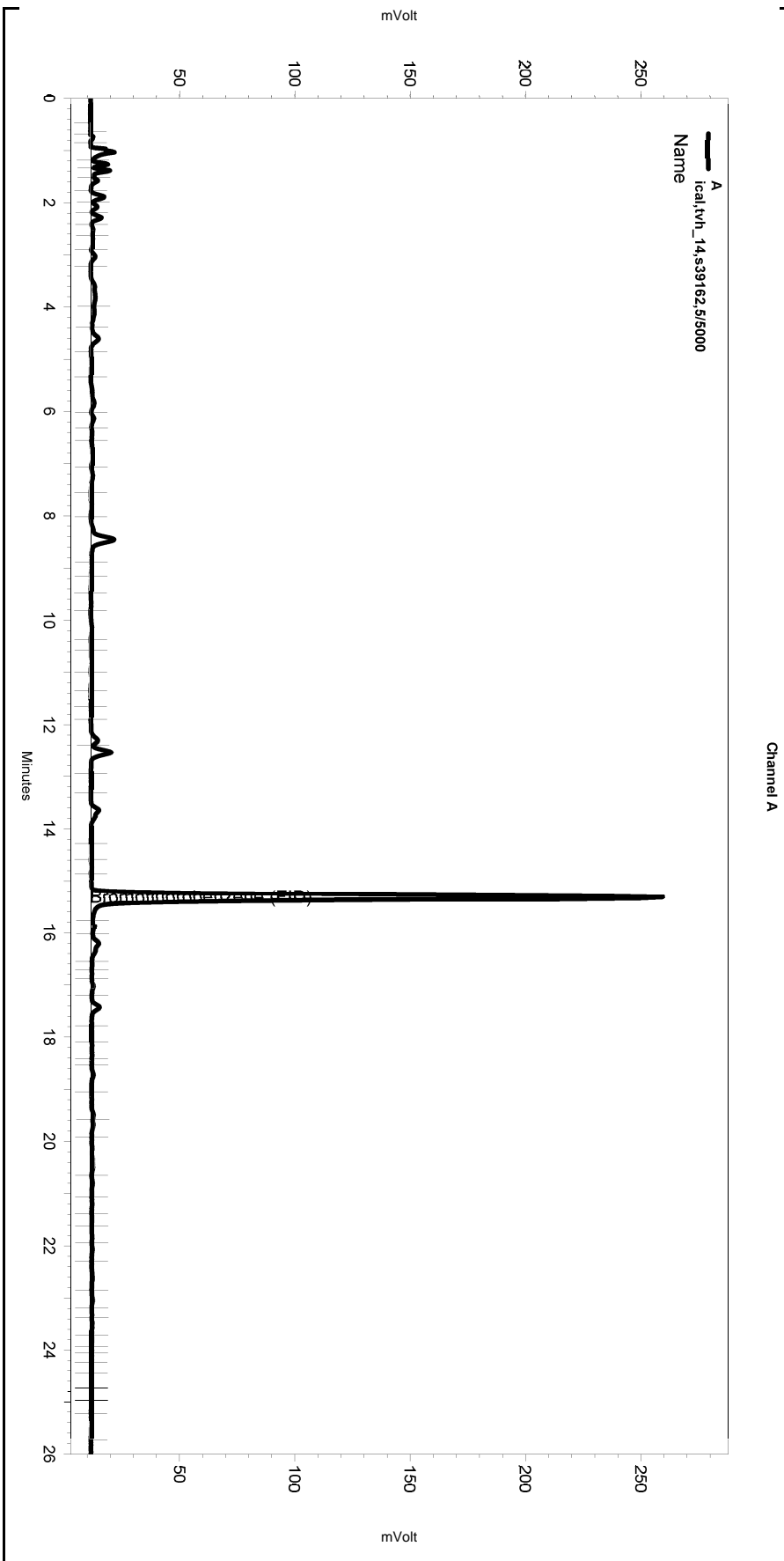
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.033	2.050	30455	0.000 CAL
Benzene	3.500	3.466	87760	0.000 CAL
Toluene	6.916	6.933	543595	0.000 CAL
Ethylbenzene	10.566	10.566	94553	0.000 CAL
m,p-Xylenes	10.899	10.933	476756	0.000 CAL
o-Xylene	11.766	11.766	218868	0.000 CAL
Bromofluorobenzene (PID)	12.649	12.683	24194994	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_14,s39162,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:16:52 AM
 Analysis Date: 2/25/2019 8:25:23 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

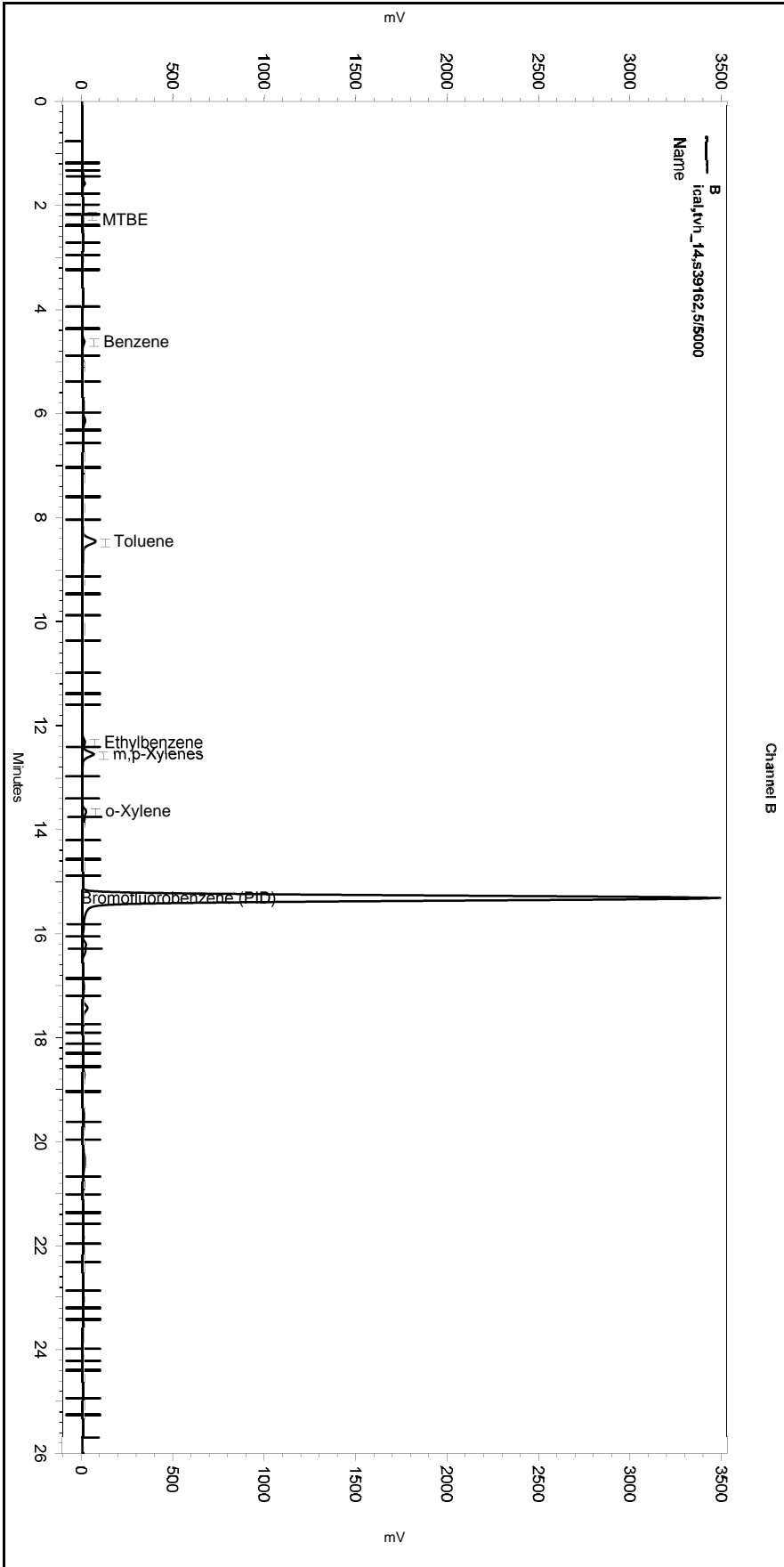
=====
 Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_14,s39162,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:16:52 AM
 Analysis Date: 2/25/2019 8:25:23 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

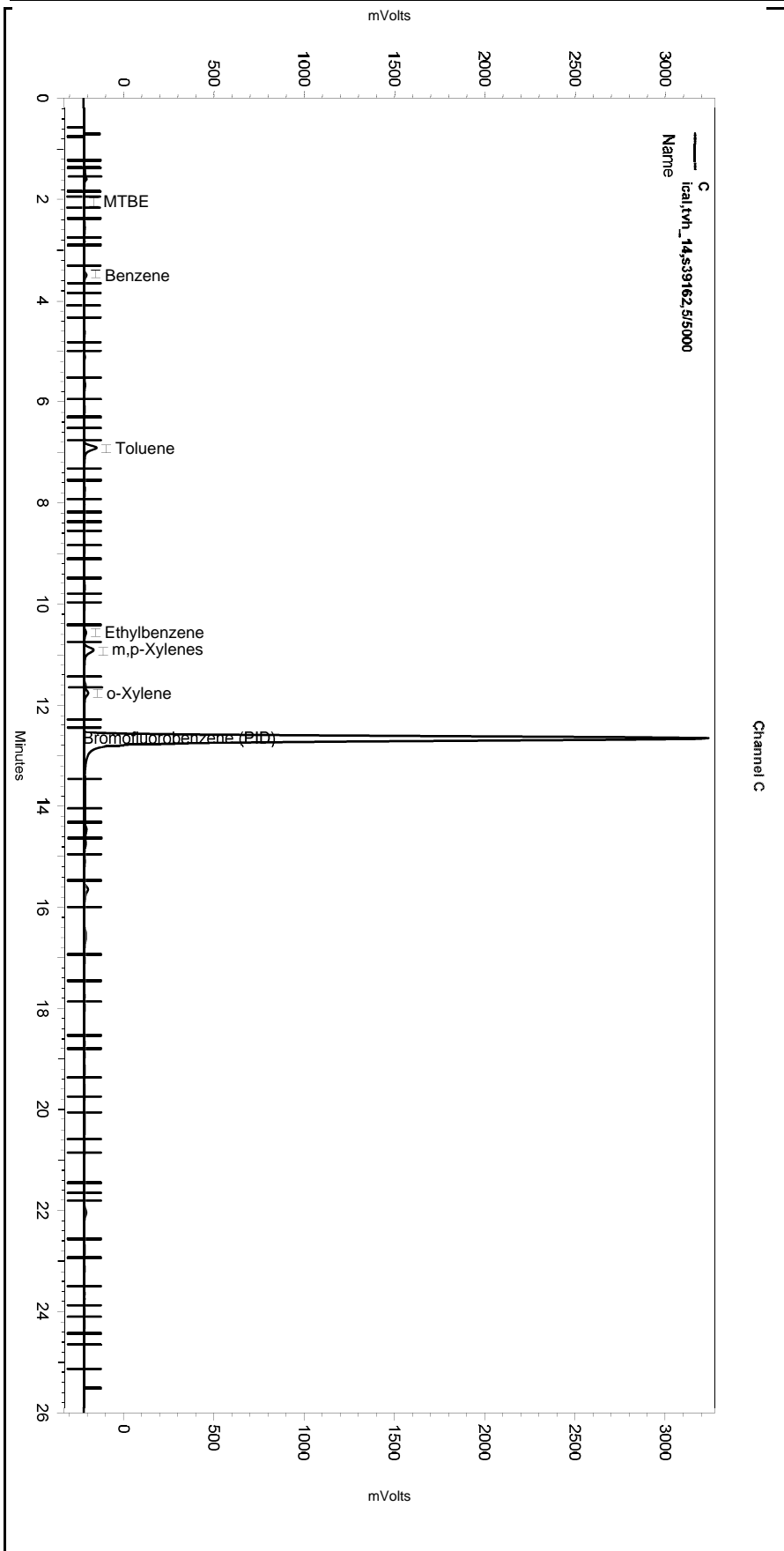
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_14,s39162,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:16:52 AM
 Analysis Date: 2/25/2019 8:25:23 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

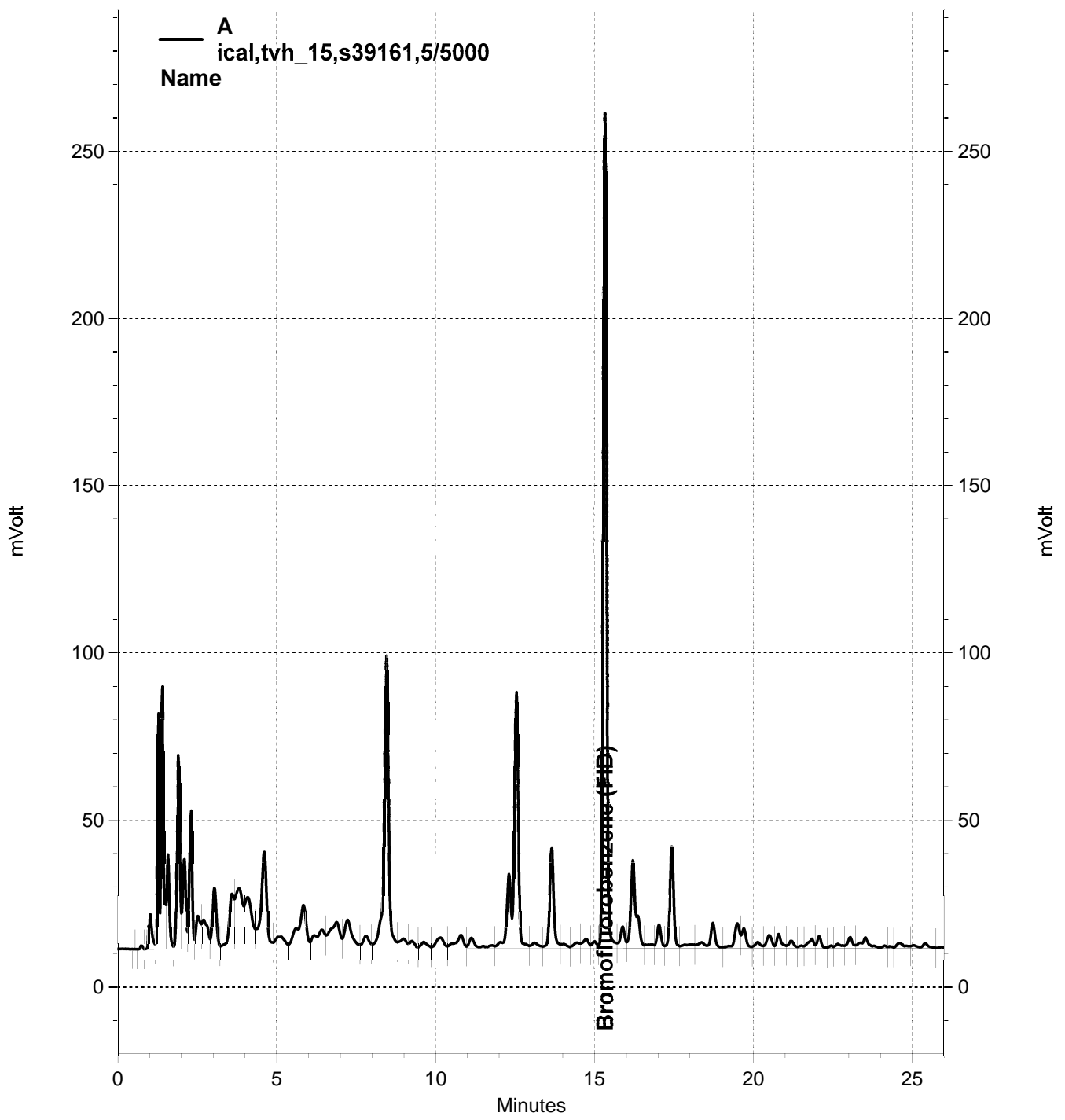
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-029, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_15,s39161,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-029
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:55:14 AM
 Analysis Date: 2/25/2019 10:24:02 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1816006	900.000 CAL
GAS:6-10			5077406	2500.000 CAL
GAS:6-12			6279206	2500.000 CAL
GAS:7-12			4927201	2500.000 CAL
JP4:7-12			4927201	0.000 CAL
?			0	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.200		0.000 BDL
Benzene	4.633	4.633	1082282	0.000 CAL
Toluene	8.467	8.483	5521068	0.000 CAL
Ethylbenzene	12.317	12.333	1085064	0.000 CAL
m,p-Xylenes	12.550	12.567	4703607	0.000 CAL
o-Xylene	13.667	13.667	1665632	0.000 CAL
Bromofluorobenzene (PID)	15.333	15.350	25694014	0.000 CAL

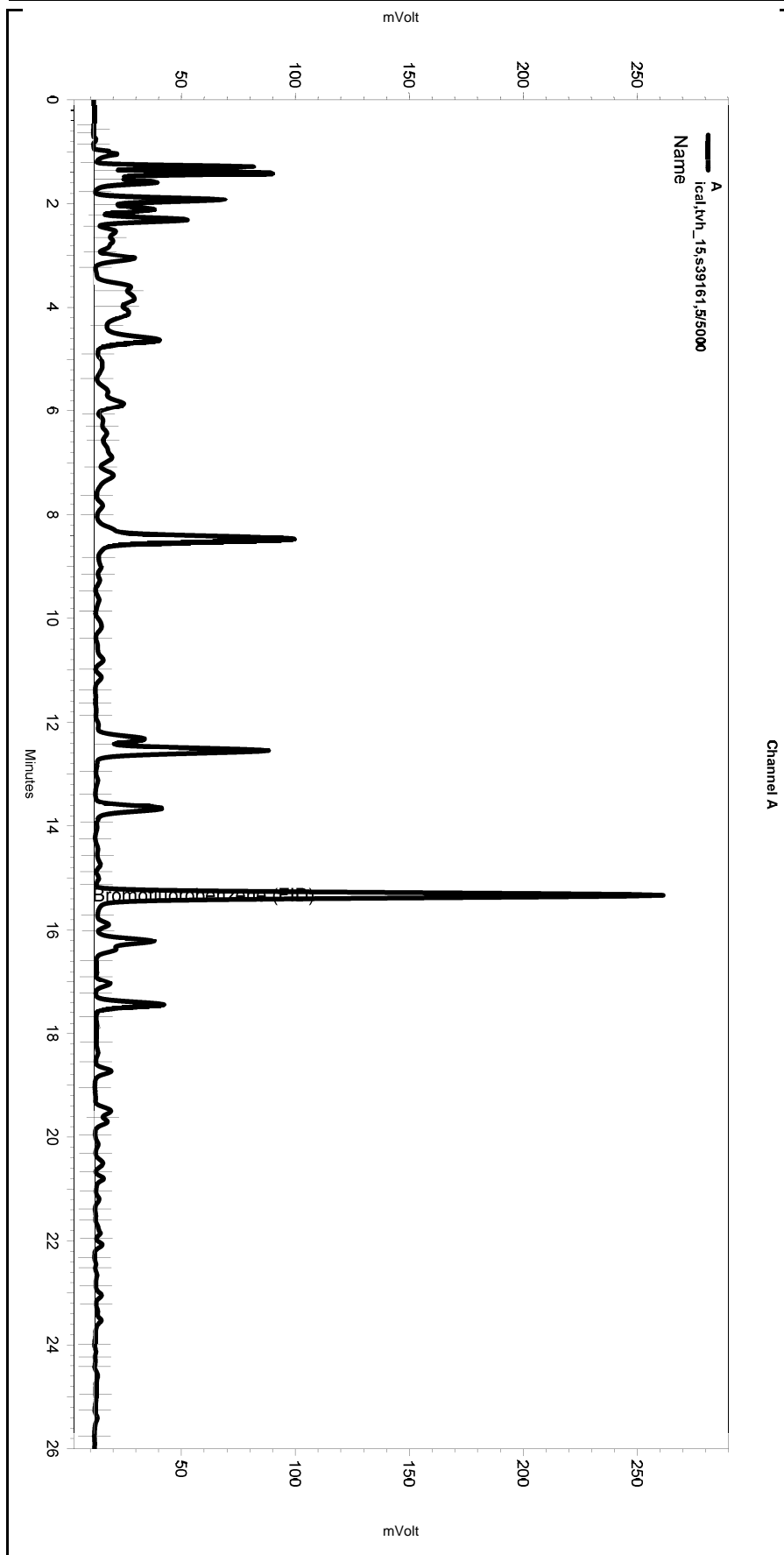
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	2.050	274087	0.000 CAL
Benzene	3.500	3.466	820170	0.000 CAL
Toluene	6.900	6.933	5086354	0.000 CAL
Ethylbenzene	10.549	10.566	855717	0.000 CAL
m,p-Xylenes	10.899	10.933	4327747	0.000 CAL
o-Xylene	11.749	11.766	1408884	0.000 CAL
Bromofluorobenzene (PID)	12.649	12.683	24082545	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_15,s39161,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-029
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:55:14 AM
 Analysis Date: 2/25/2019 10:24:02 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

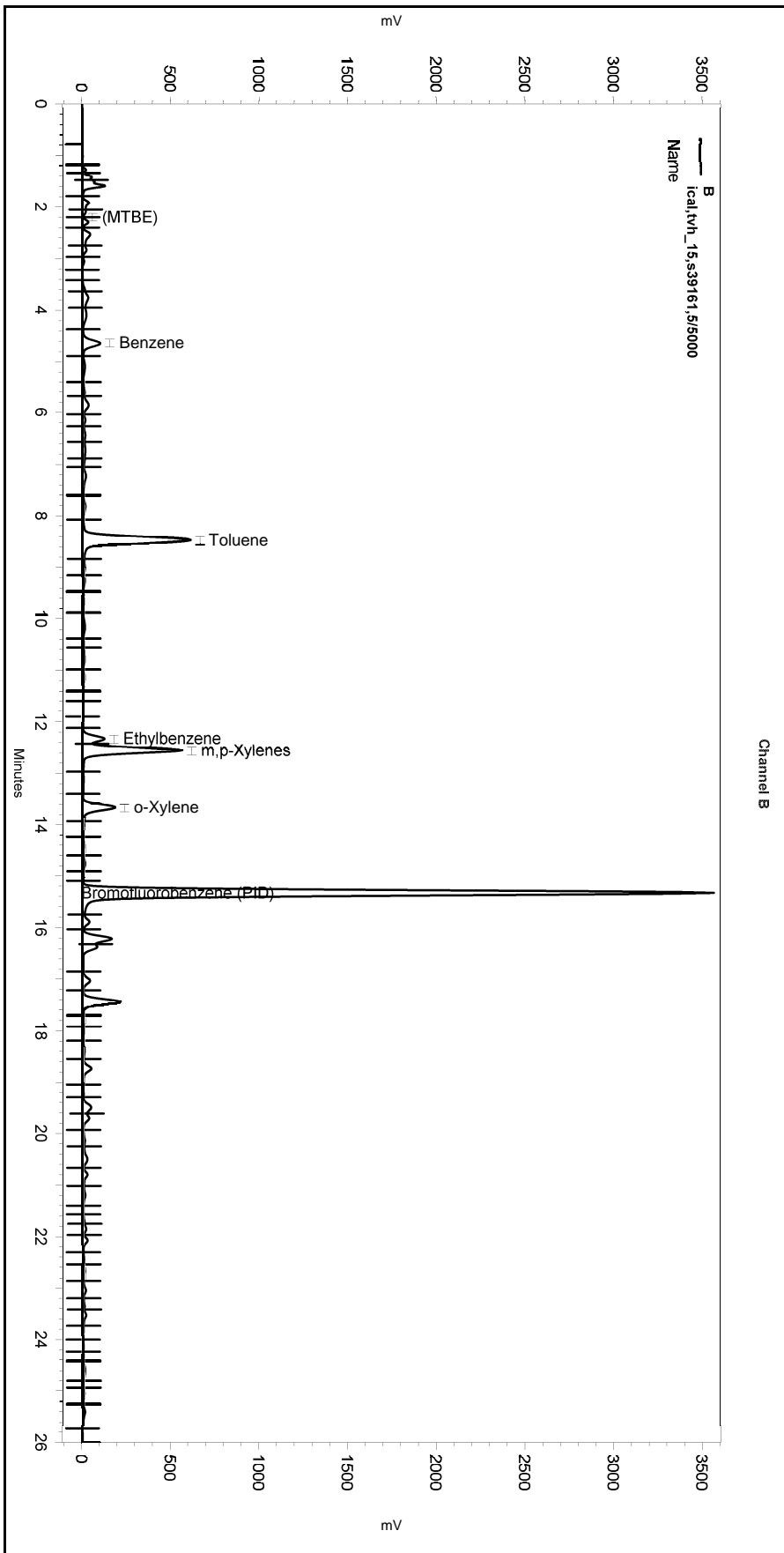
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_15,s39161,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-029
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:55:14 AM
 Analysis Date: 2/25/2019 10:24:02 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

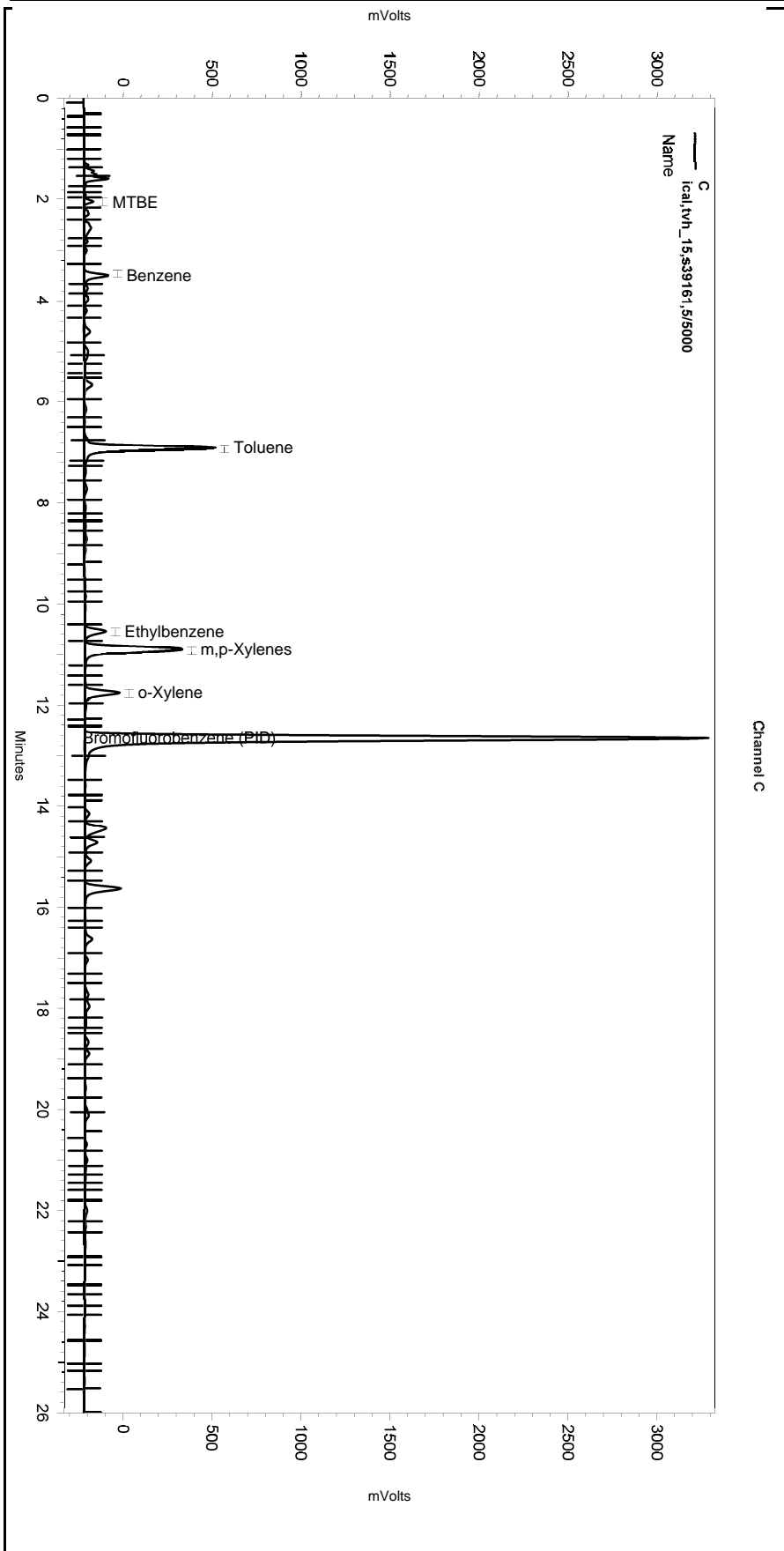
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_15,s39161,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-029
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 3:55:14 AM
 Analysis Date: 2/25/2019 10:24:02 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

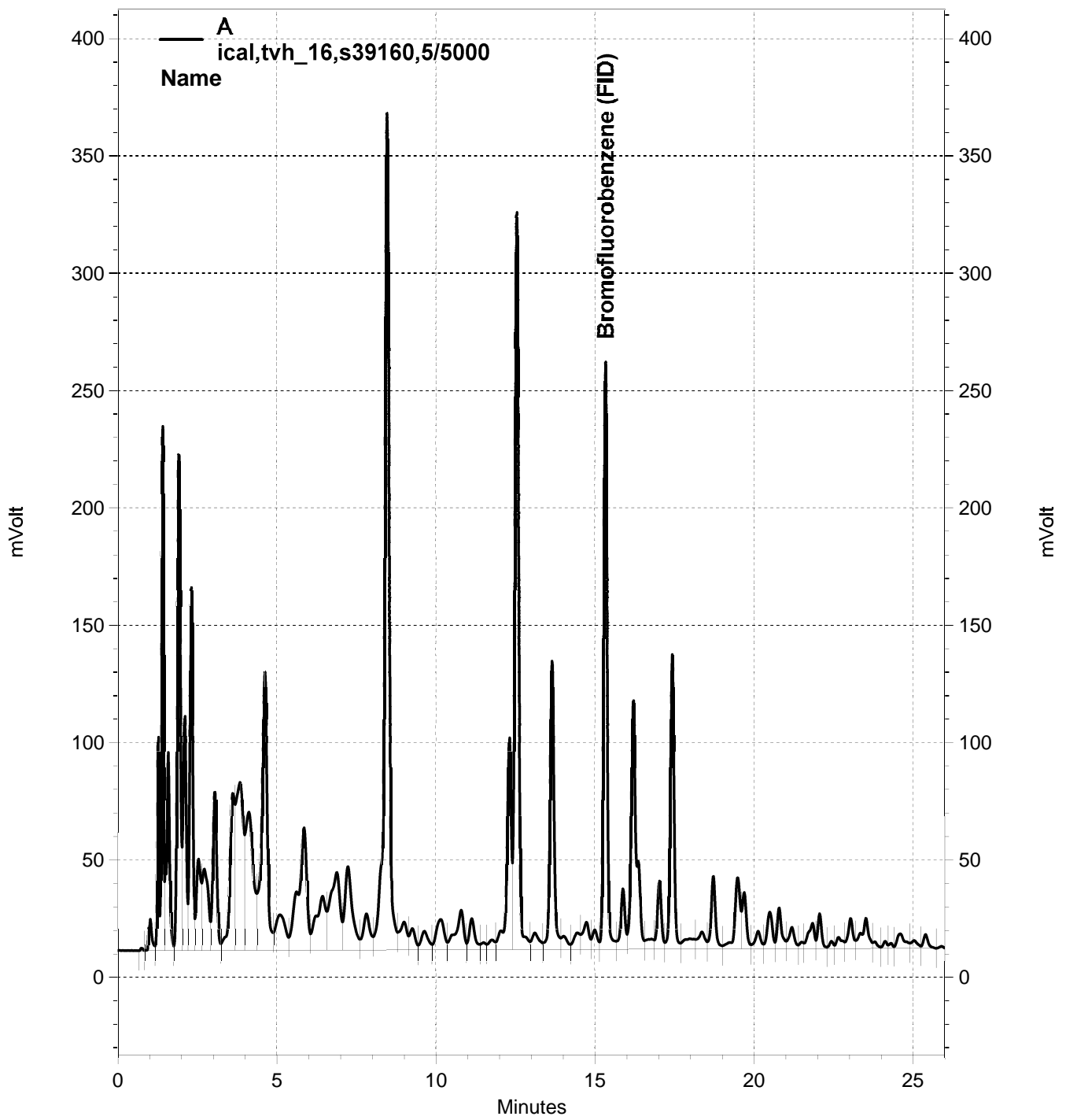
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-030, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_16,s39160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-030
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 4:33:39 AM
 Analysis Date: 2/25/2019 10:24:06 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1861025	900.000 CAL
GAS:6-10			20324808	10000.000 CAL
GAS:6-12			25123804	10000.000 CAL
GAS:7-12			19771840	10000.000 CAL
JP4:7-12			19771840	0.000 CAL
?			0	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.200		0.000 BDL
Benzene	4.650	4.633	4437893	0.000 CAL
Toluene	8.467	8.483	22851171	0.000 CAL
Ethylbenzene	12.317	12.333	4586554	0.000 CAL
m,p-Xylenes	12.550	12.567	19394008	0.000 CAL
o-Xylene	13.650	13.667	6899574	0.000 CAL
Bromofluorobenzene (PID)	15.333	15.350	26275676	0.000 CAL

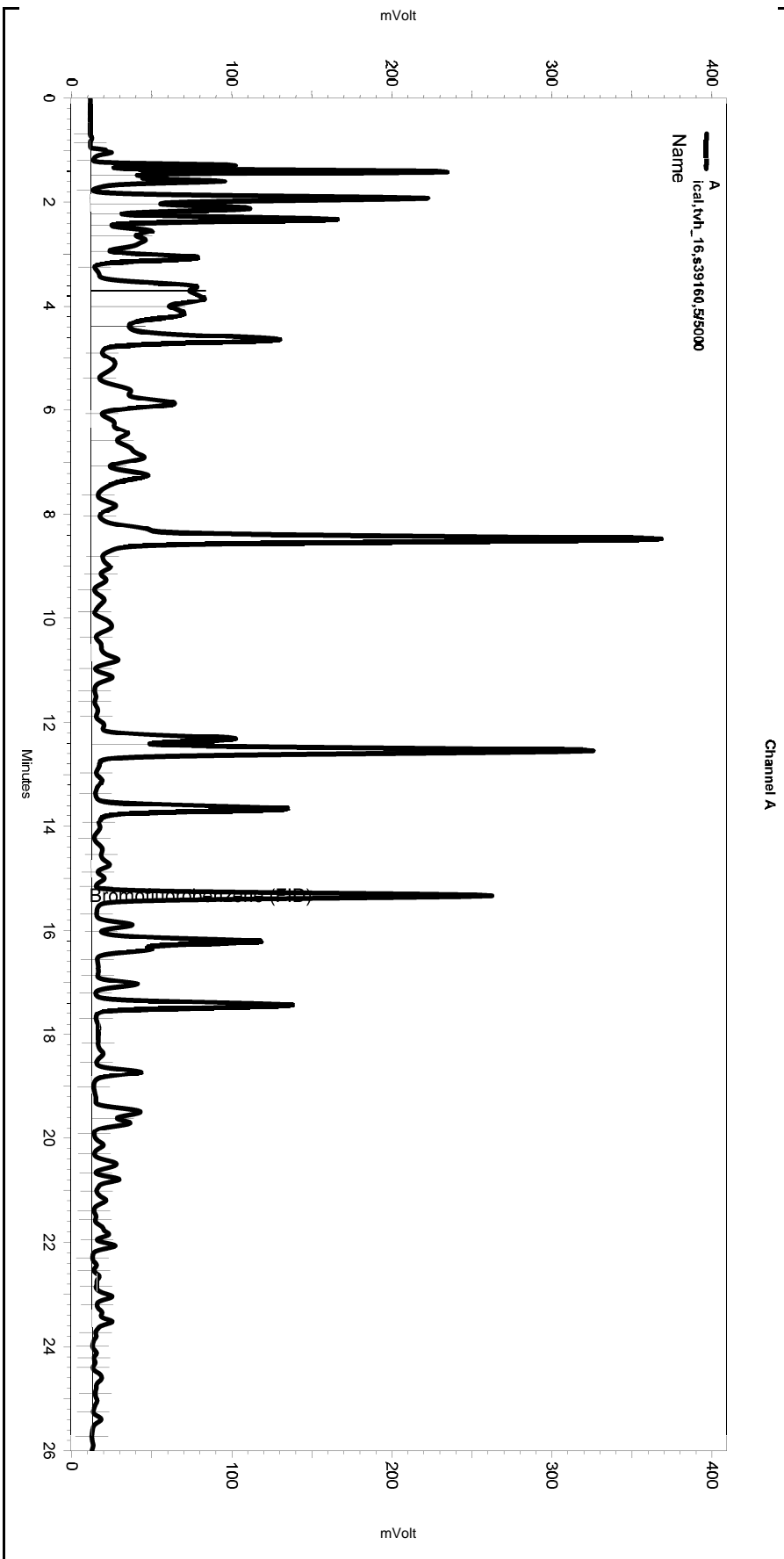
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	2.050	1137233	0.000 CAL
Benzene	3.516	3.466	3613918	0.000 CAL
Toluene	6.916	6.933	21389897	0.000 CAL
Ethylbenzene	10.549	10.566	4011717	0.000 CAL
m,p-Xylenes	10.883	10.933	18282846	0.000 CAL
o-Xylene	11.749	11.766	6149613	0.000 CAL
Bromofluorobenzene (PID)	12.649	12.683	24380509	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_16,s39160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-030
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 4:33:39 AM
 Analysis Date: 2/25/2019 10:24:06 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < A >

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

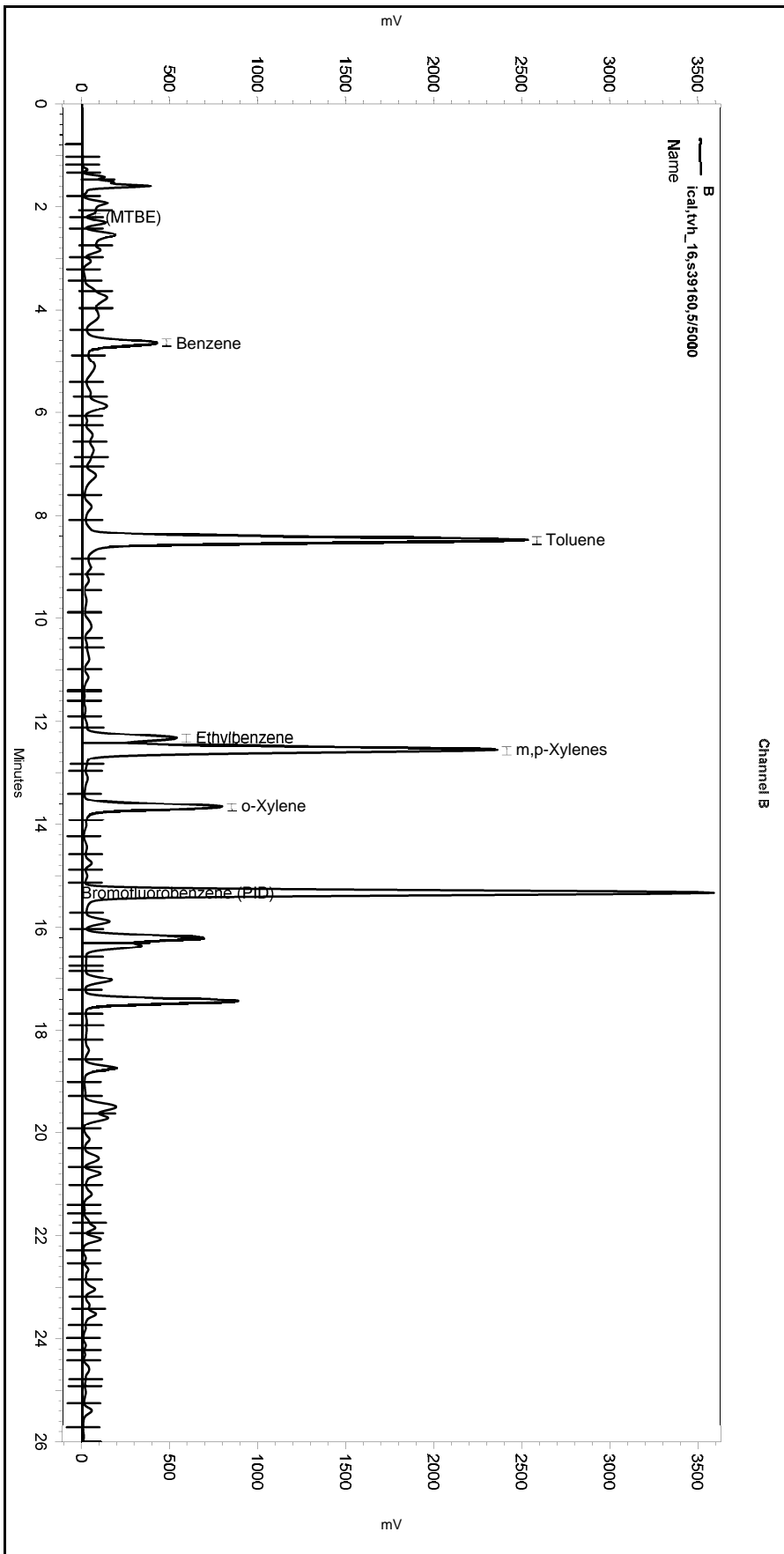
Manual Integration Fixes
 =====

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_16,s39160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-030
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX053.met

Software Version 3.1.7
 Run Date: 2/23/2019 4:33:39 AM
 Analysis Date: 2/25/2019 10:24:06 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

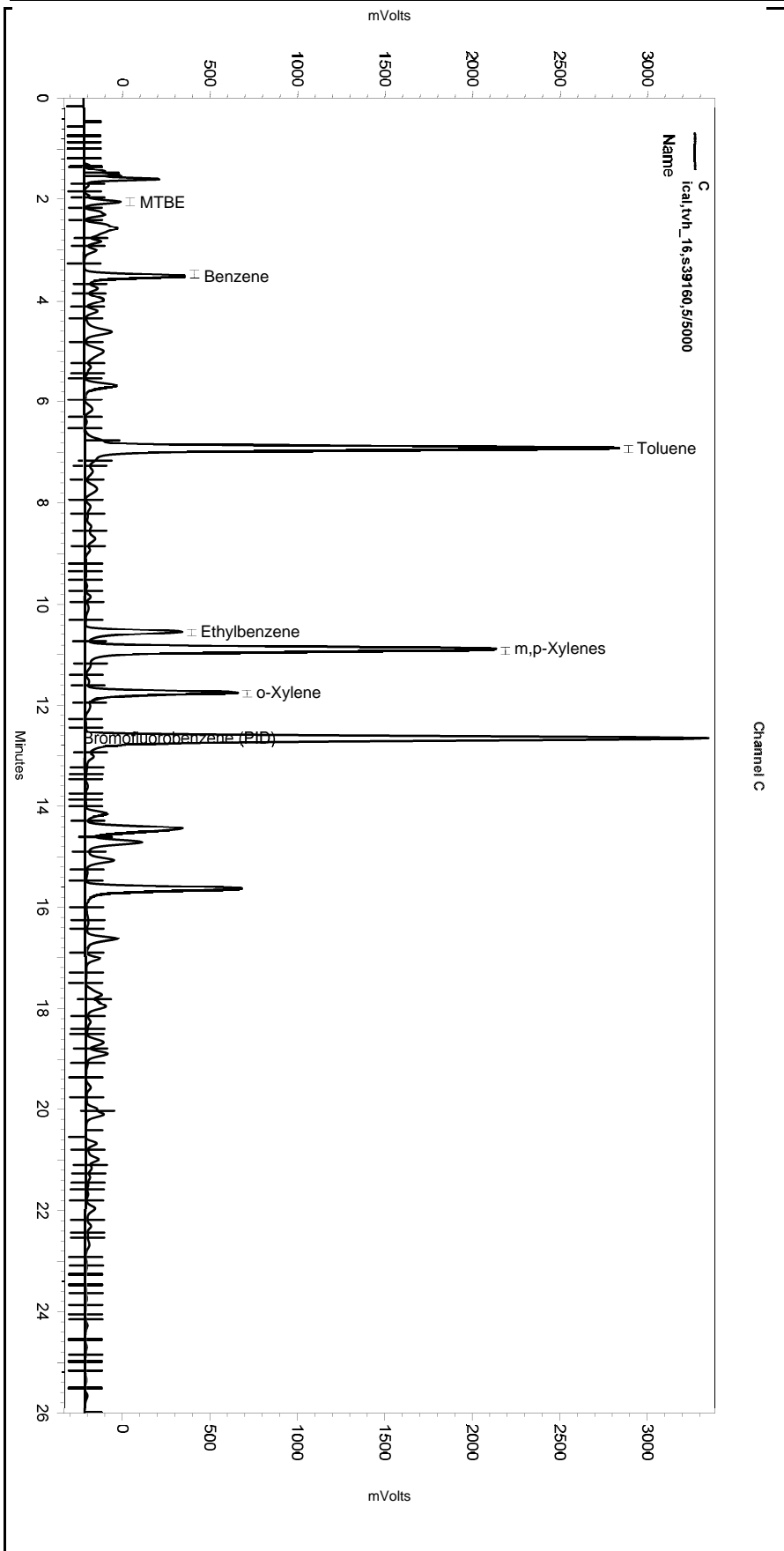
=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_16,s39160,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-030
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX053.met

Software Version 3.1.7
 Run Date: 2/23/2019 4:33:39 AM
 Analysis Date: 2/25/2019 10:24:06 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

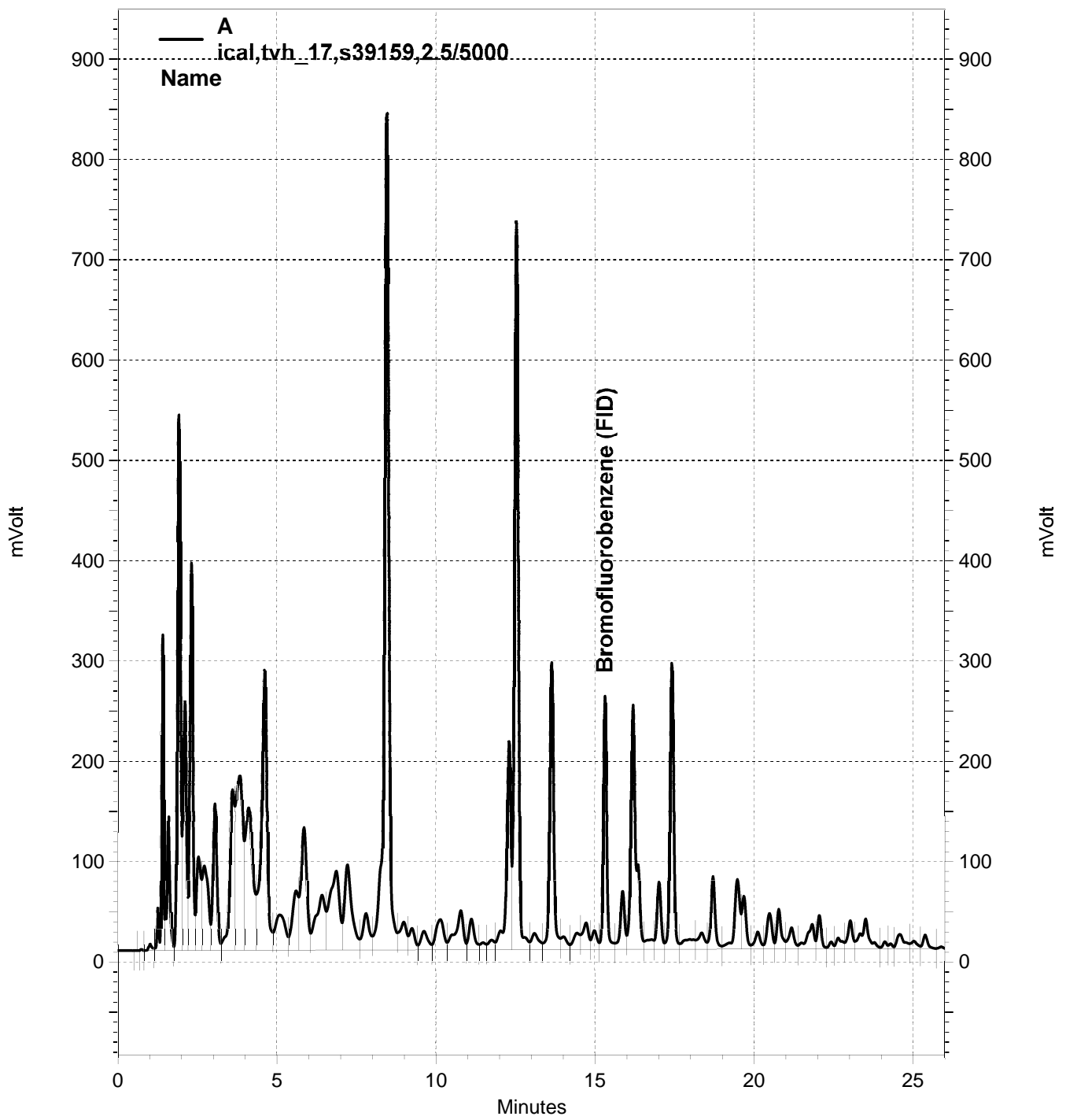
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-031, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_17,s39159,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-031
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 5:12:03 AM
 Analysis Date: 2/25/2019 10:24:10 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.317	15.333	1927625	900.000 CAL
GAS:6-10			50324136	25000.000 CAL
GAS:6-12			58358720	25000.000 CAL
GAS:7-12			45712984	25000.000 CAL
JP4:7-12			45712984	0.000 CAL
?			0	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.200		0.000 BDL
Benzene	4.633	4.633	10773454	0.000 CAL
Toluene	8.450	8.483	52781200	0.000 CAL
Ethylbenzene	12.317	12.333	10568133	0.000 CAL
m,p-Xylenes	12.533	12.567	44068659	0.000 CAL
o-Xylene	13.650	13.667	15921305	0.000 CAL
Bromofluorobenzene (PID)	15.317	15.350	26617708	0.000 CAL

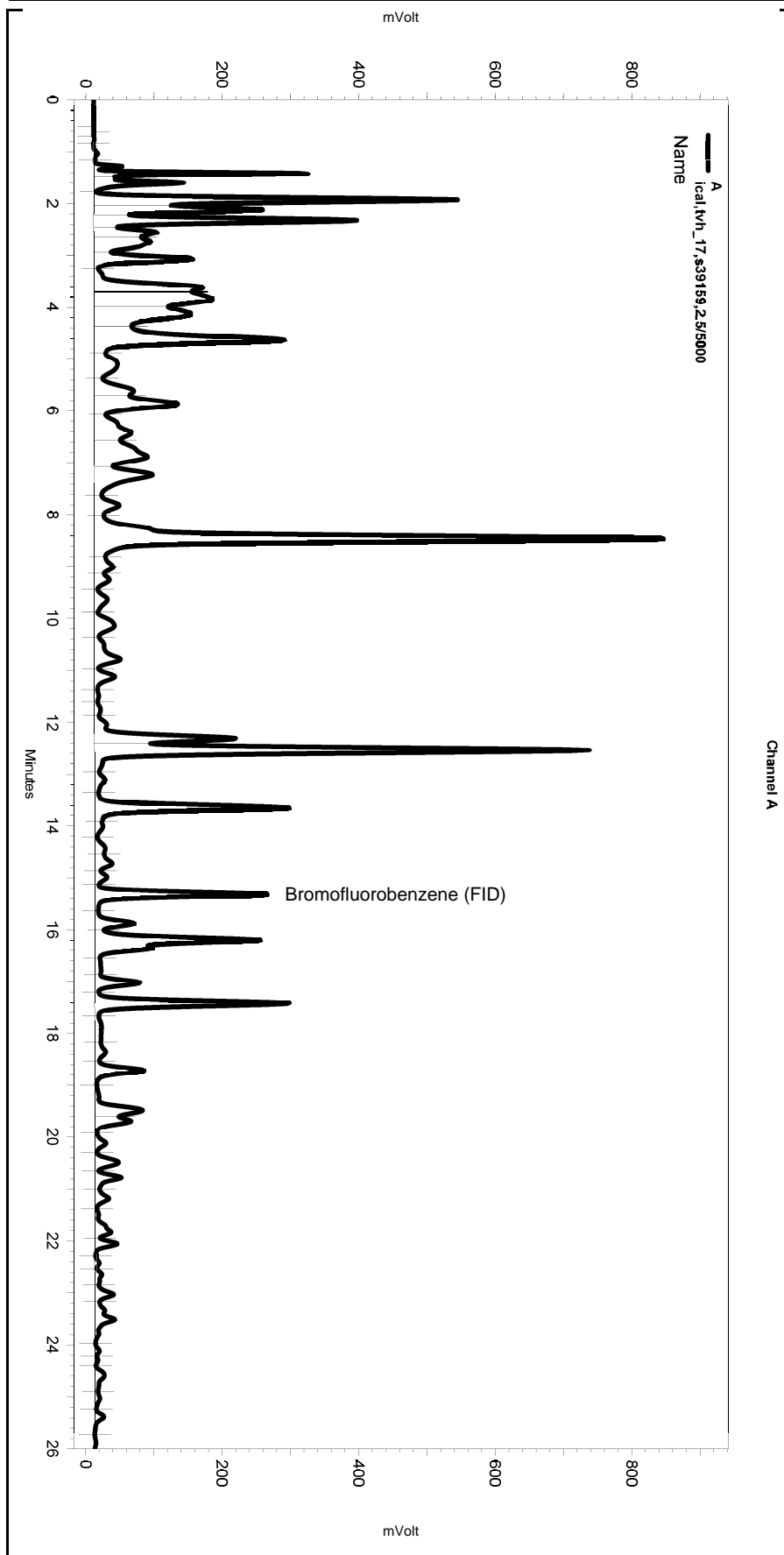
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.067	2.050	2985636	0.000 CAL
Benzene	3.516	3.466	8737996	0.000 CAL
Toluene	6.916	6.933	49315893	0.000 CAL
Ethylbenzene	10.549	10.566	9458285	0.000 CAL
m,p-Xylenes	10.883	10.933	41704865	0.000 CAL
o-Xylene	11.749	11.766	14484343	0.000 CAL
Bromofluorobenzene (PID)	12.649	12.683	24800923	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_17,s39159,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-031
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 5:12:03 AM
 Analysis Date: 2/25/2019 10:24:10 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

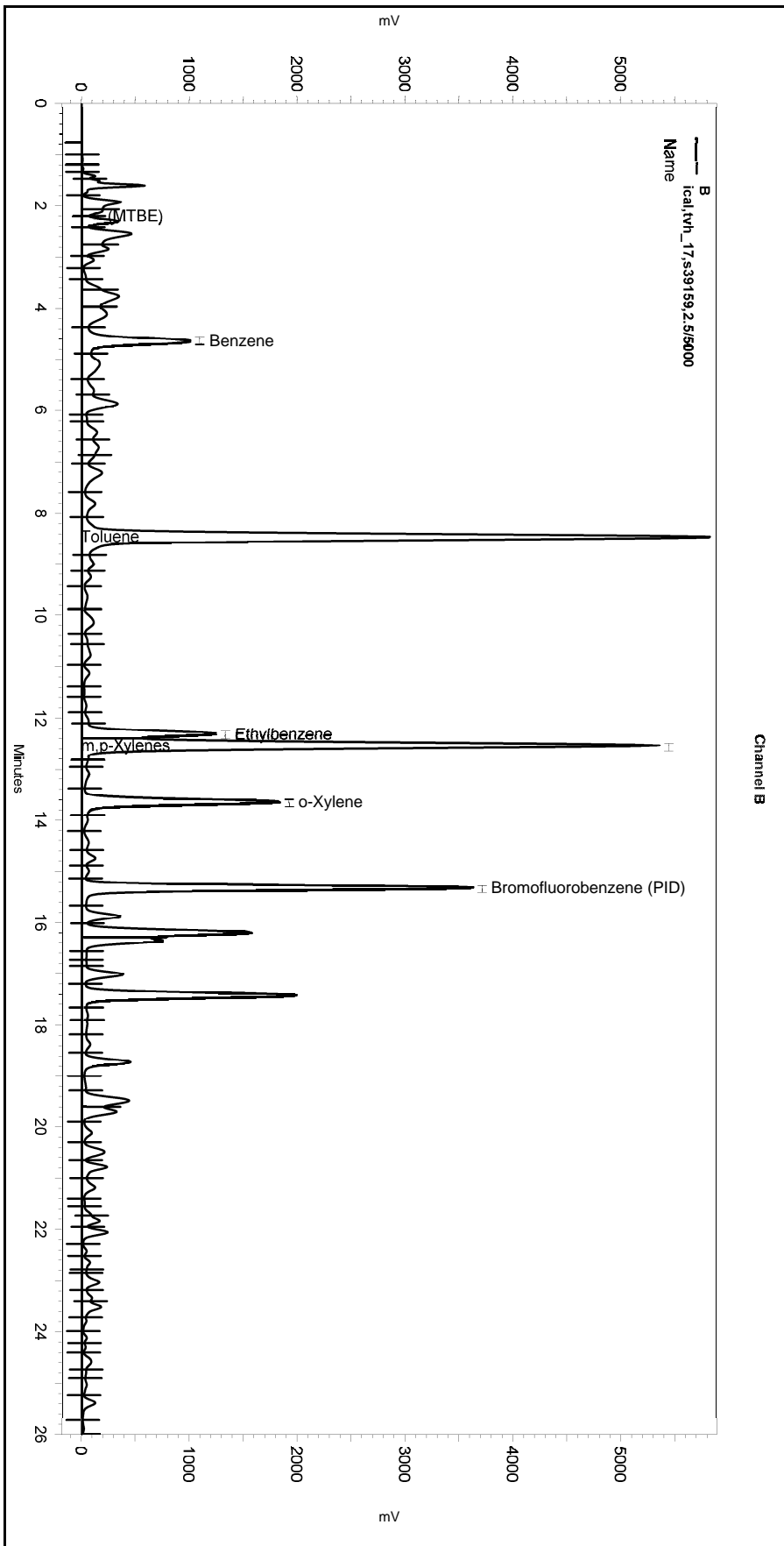
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_17,s39159,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-031
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX053.met

Software Version 3.1.7
 Run Date: 2/23/2019 5:12:03 AM
 Analysis Date: 2/25/2019 10:24:10 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

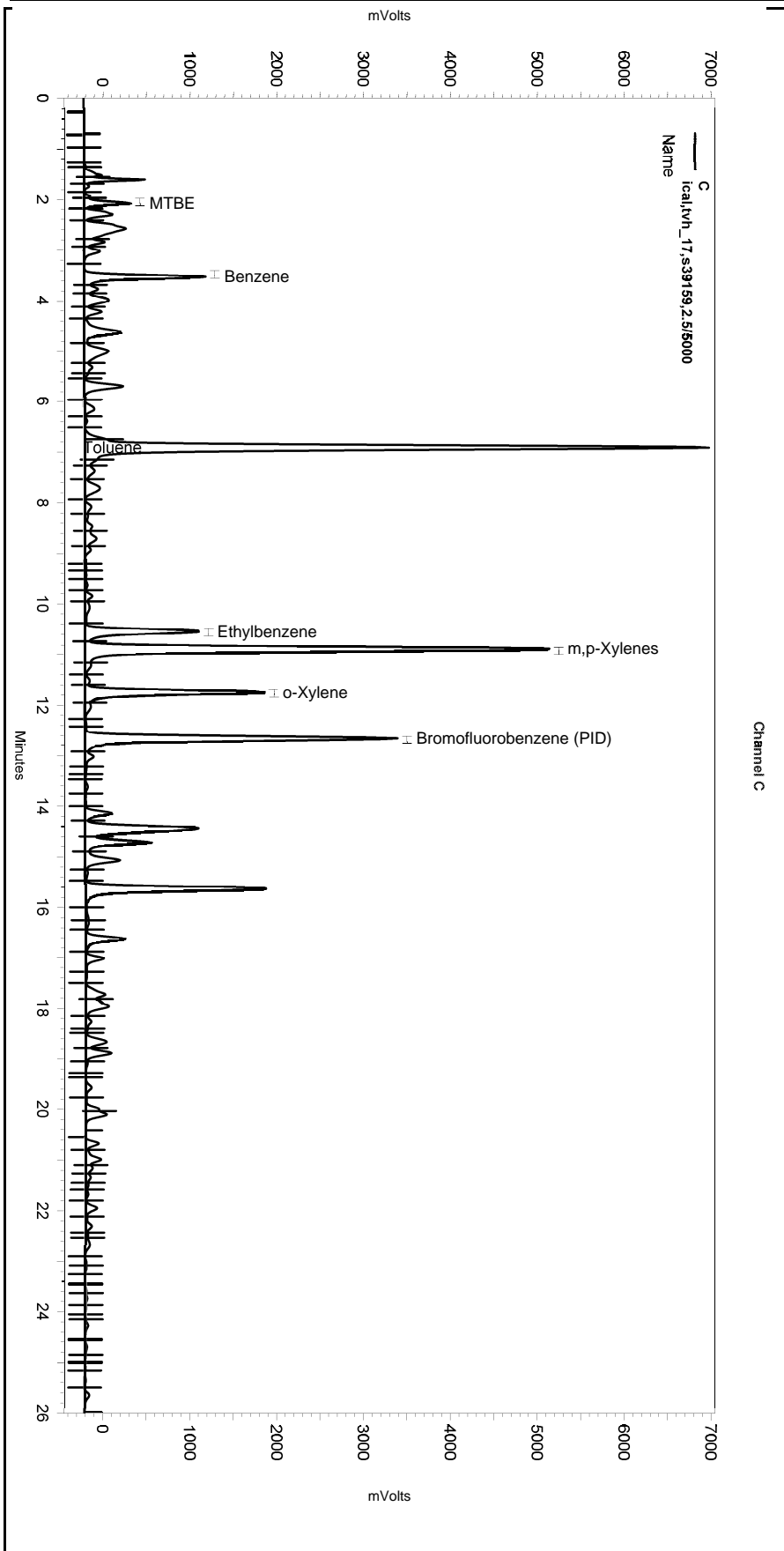
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_17,s39159,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-031
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX053.met

Software Version 3.1.7
 Run Date: 2/23/2019 5:12:03 AM
 Analysis Date: 2/25/2019 10:24:10 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

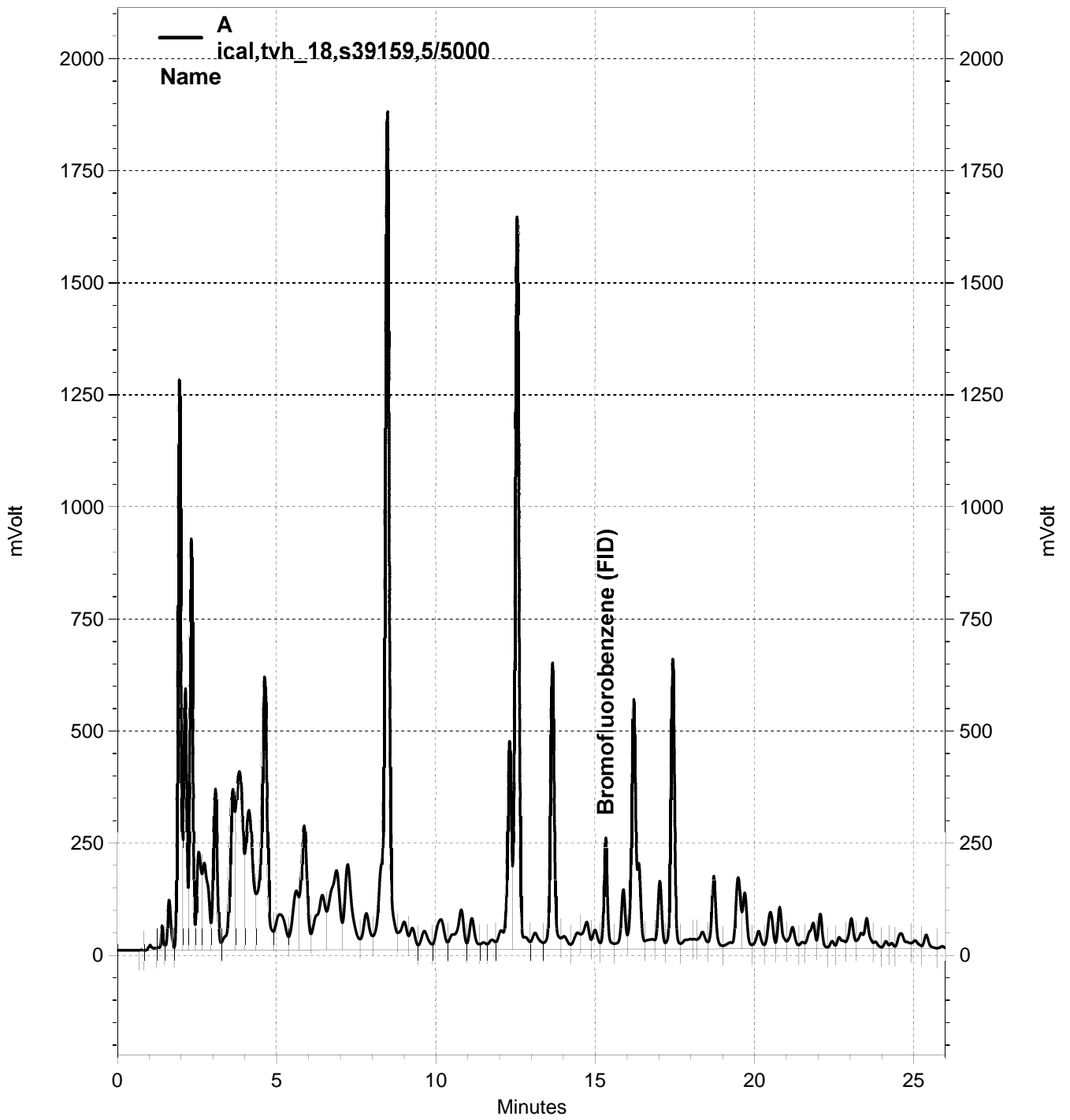
=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes
 =====

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-032, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_18,s39159,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-032
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 5:50:26 AM
 Analysis Date: 2/25/2019 10:24:14 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1996763	900.000 CAL
GAS:6-10			106436944	50000.000 CAL
GAS:6-12			131192288	50000.000 CAL
GAS:7-12			102987664	50000.000 CAL
JP4:7-12			102987664	0.000 CAL
?			0	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.200	2644871	0.000 CAL
Benzene	4.667	4.633	24172572	0.000 CAL
Toluene	8.483	8.483	113989115	0.000 CAL
Ethylbenzene	12.333	12.333	23228856	0.000 CAL
m,p-Xylenes	12.550	12.567	96285838	0.000 CAL
o-Xylene	13.667	13.667	34567128	0.000 CAL
Bromofluorobenzene (PID)	15.333	15.350	26346414	0.000 CAL

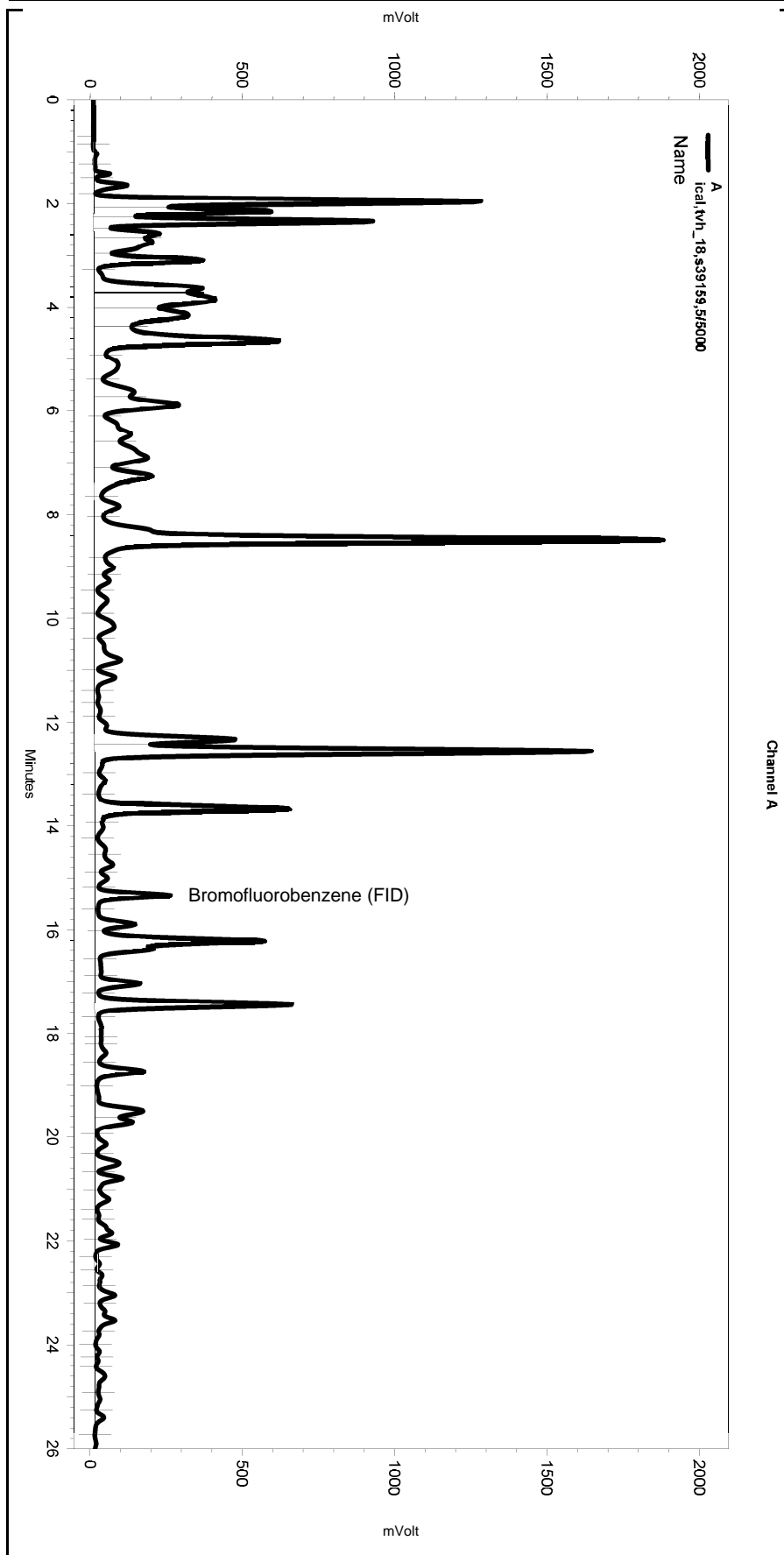
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.050	6569832	0.000 CAL
Benzene	3.533	3.466	19888926	0.000 CAL
Toluene	6.933	6.933	94296775	0.000 CAL
Ethylbenzene	10.549	10.566	21587096	0.000 CAL
m,p-Xylenes	10.899	10.933	90359035	0.000 CAL
o-Xylene	11.749	11.766	32076834	0.000 CAL
Bromofluorobenzene (PID)	12.649	12.683	25099188	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_18,s39159,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-032
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 5:50:26 AM
 Analysis Date: 2/25/2019 10:24:14 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

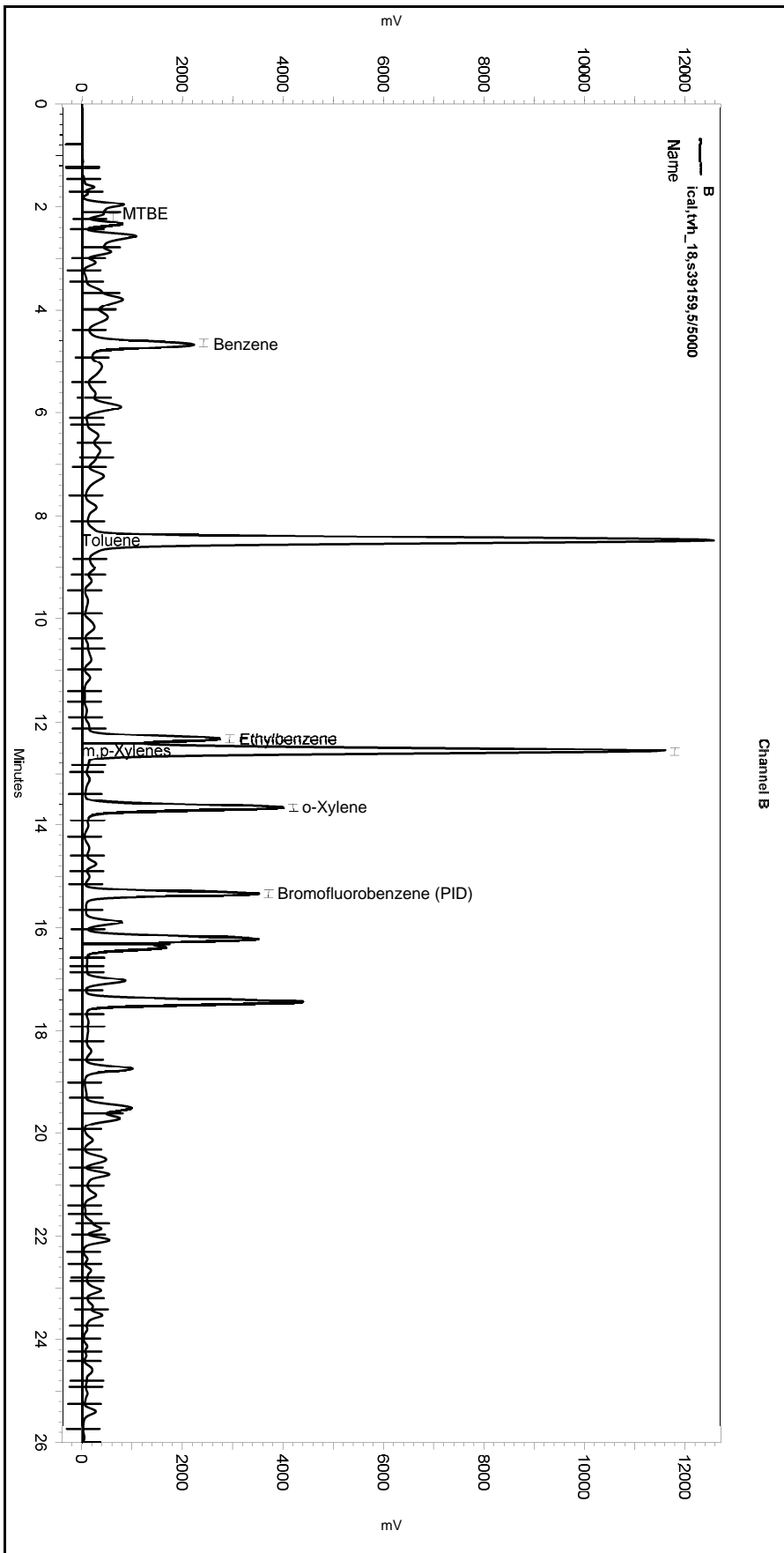
Manual Integration Fixes
 =====

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_18,s39159,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-032
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 5:50:26 AM
 Analysis Date: 2/25/2019 10:24:14 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

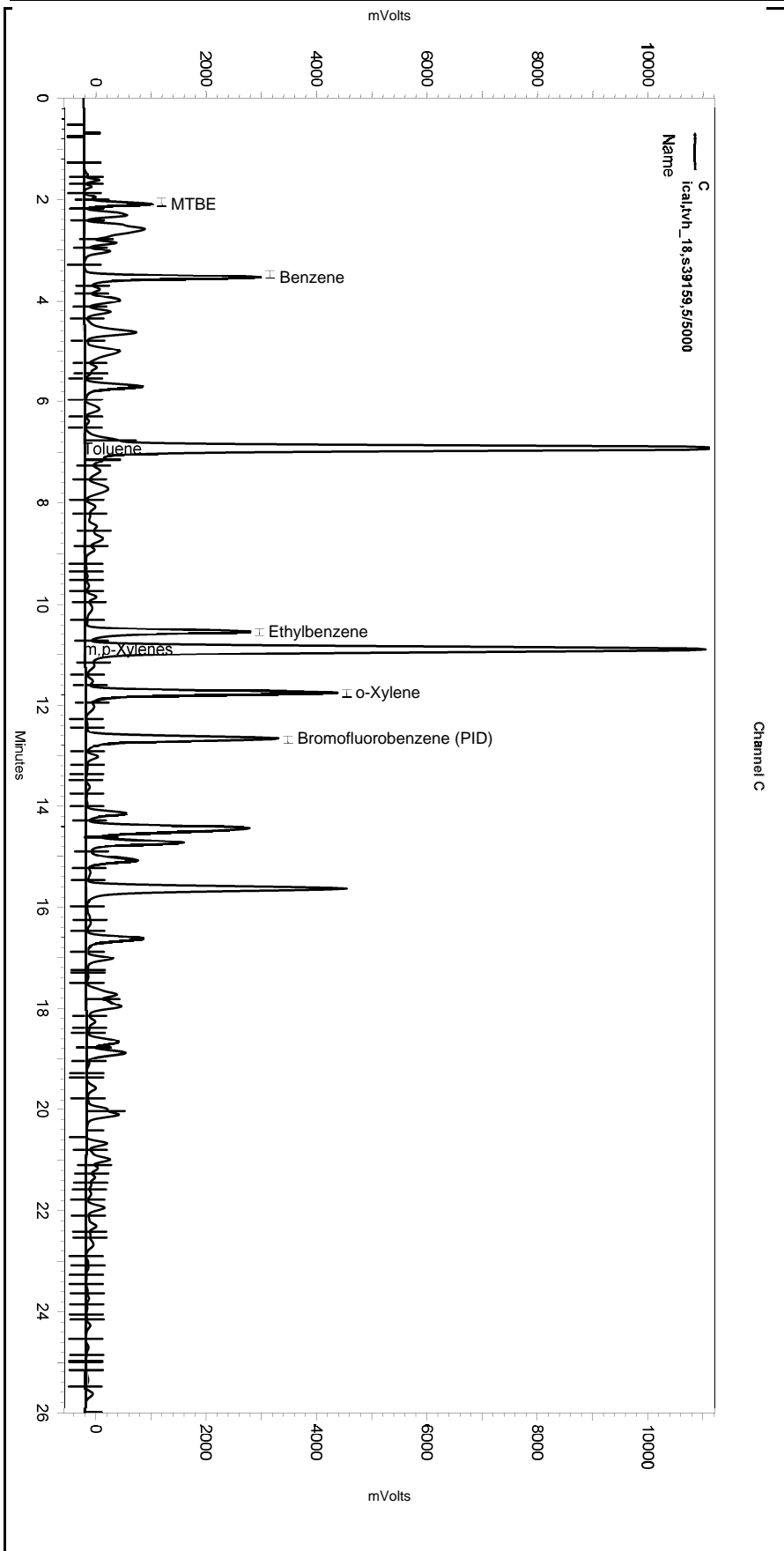
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: ical,tvh_18,s39159,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-032
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX053.met

Software Version 3.1.7
 Run Date: 2/23/2019 5:50:26 AM
 Analysis Date: 2/25/2019 10:24:14 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

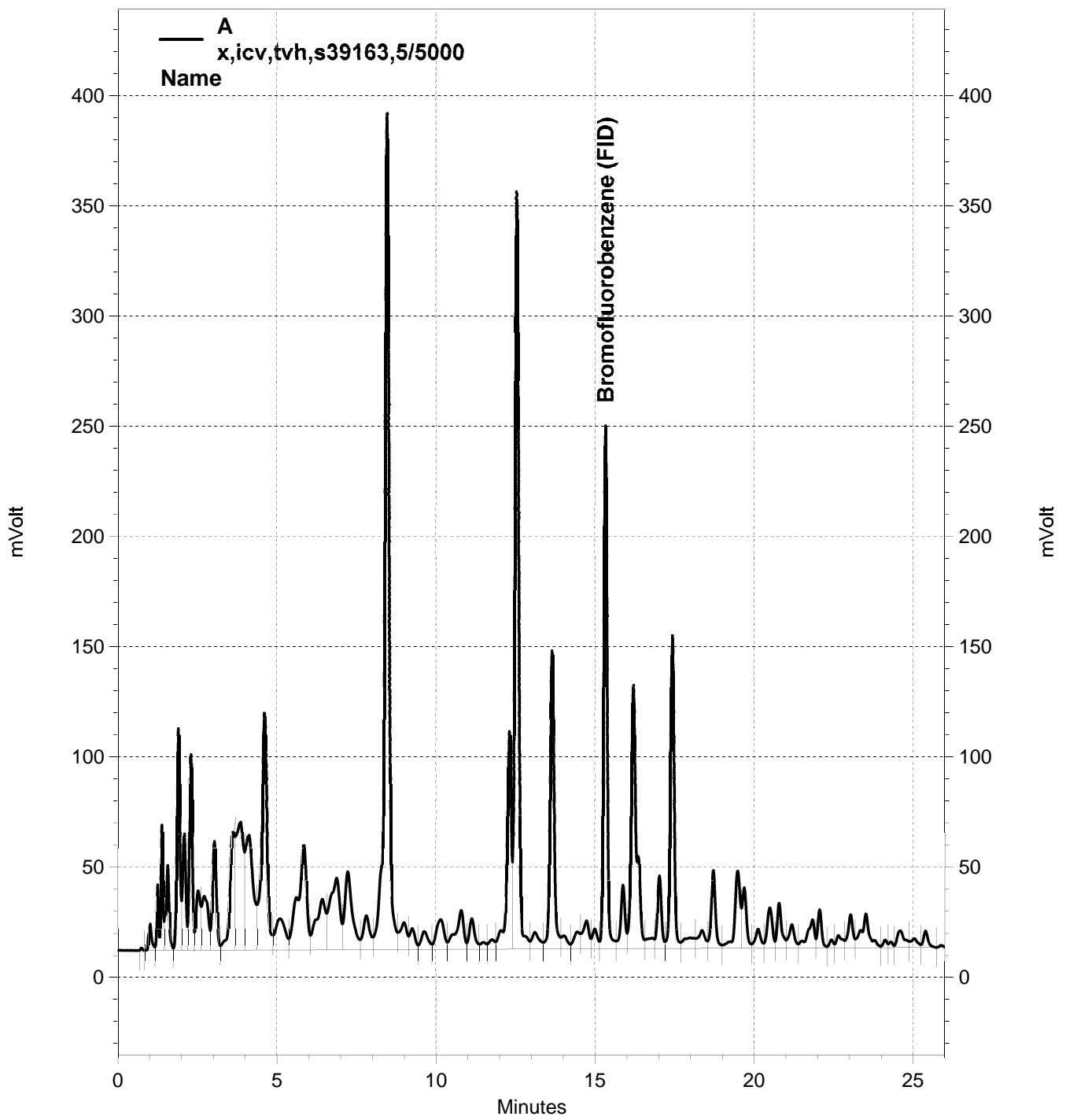
=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-035, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: icv,tvh,s39163,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-035
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE053.met

Software Version 3.1.7
 Run Date: 2/23/2019 7:45:58 AM
 Analysis Date: 2/25/2019 10:24:24 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.333	1765175	844.415
GAS:6-10			19473430	9017.321
GAS:6-12			24900772	9304.516
GAS:7-12			20847112	9833.043
JP4:7-12			20847112	5560.416
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.200		0.000 BDL
Benzene	4.633	4.633	4143516	87.640
Toluene	8.467	8.483	24050137	552.752
Ethylbenzene	12.317	12.333	4954118	128.084
m,p-Xylenes	12.550	12.567	21157459	483.257
o-Xylene	13.650	13.667	7593647	192.487
Bromofluorobenzene (PID)	15.333	15.350	25000371	652.677

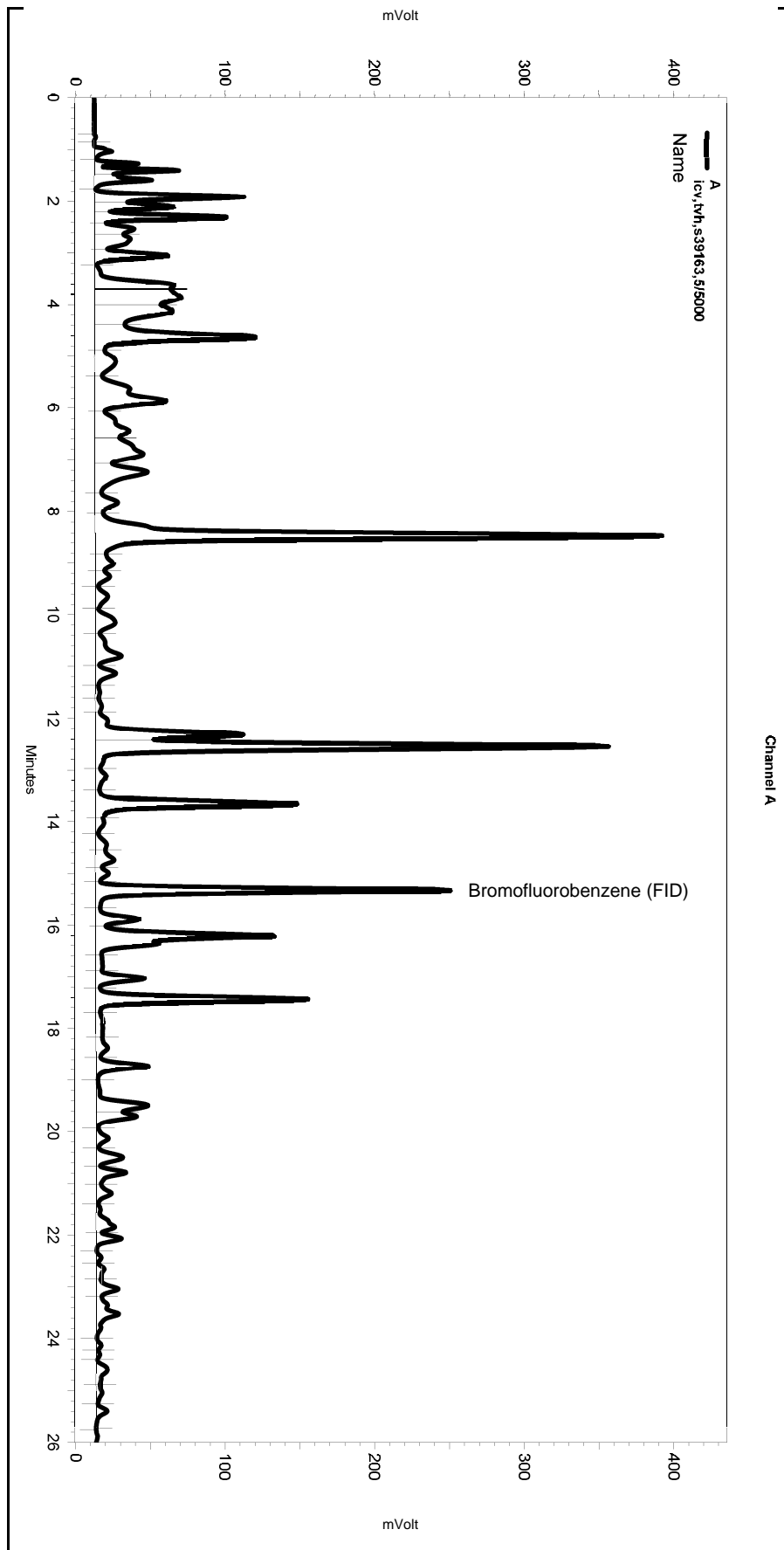
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.050	2.050	578832	40.312
Benzene	3.516	3.466	3445867	86.163
Toluene	6.916	6.933	22822827	610.243
Ethylbenzene	10.549	10.566	4402073	143.577
m,p-Xylenes	10.899	10.933	20220721	520.611
o-Xylene	11.749	11.766	6898444	180.324
Bromofluorobenzene (PID)	12.666	12.683	23423661	686.257

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: icv,tvh,s39163,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-035
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 7:45:58 AM
 Analysis Date: 2/25/2019 10:24:24 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 < General Method Parameters >

No items selected for this section

 < A >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

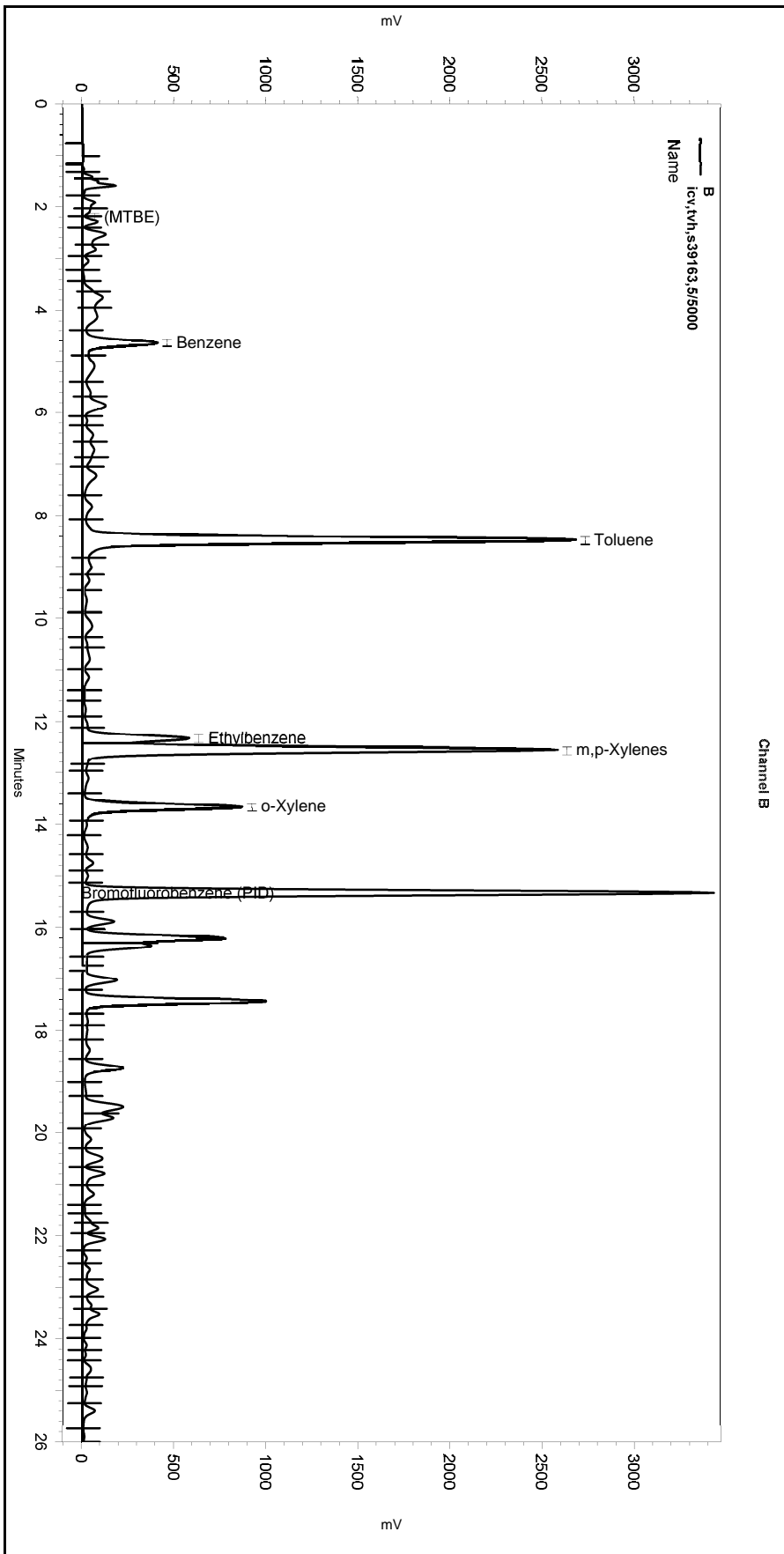
Manual Integration Fixes

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-035

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: icv,tvh,s39163,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-035
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 7:45:58 AM
 Analysis Date: 2/25/2019 10:24:24 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---> B <-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

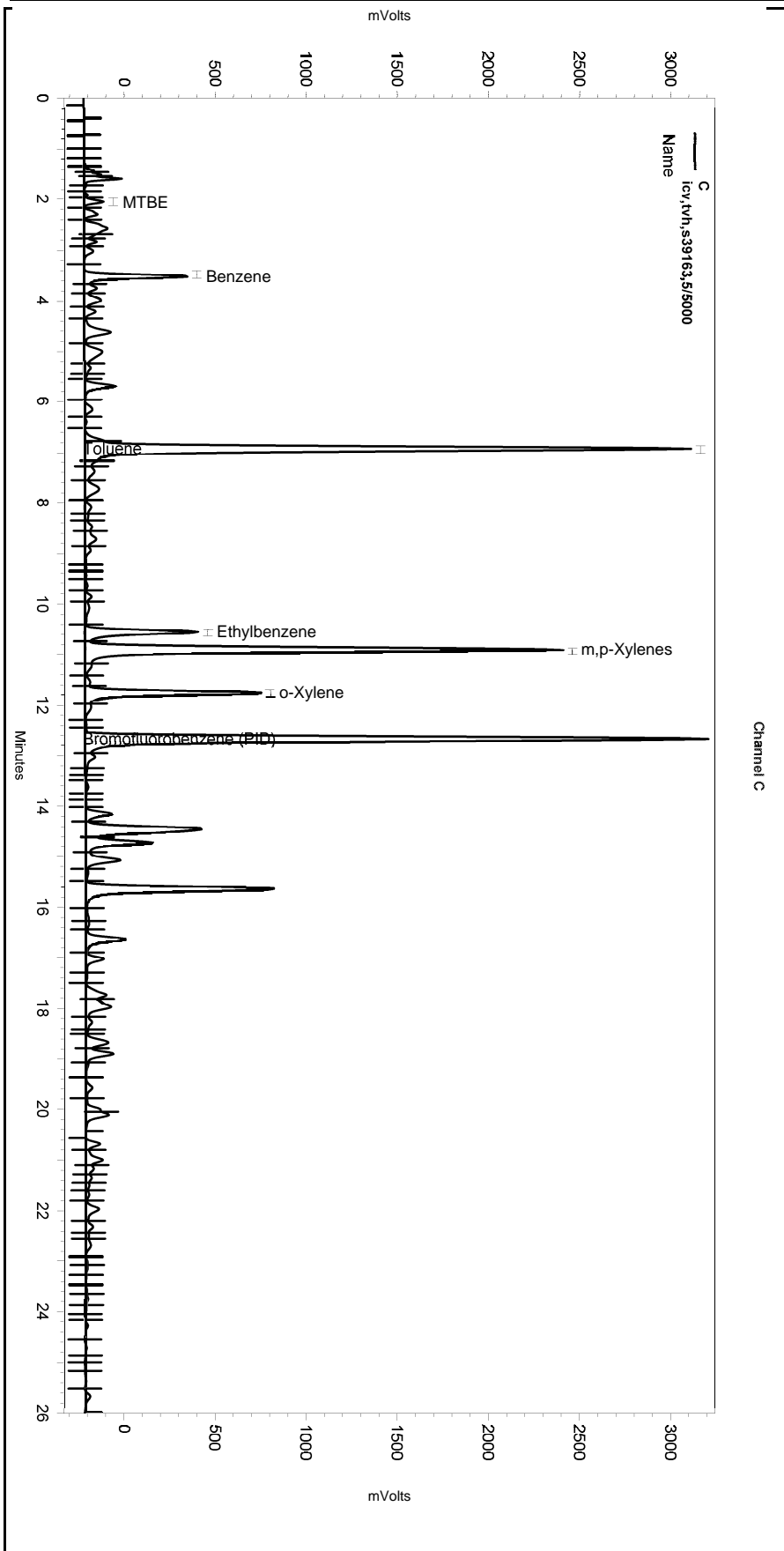
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-035

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: icv,tvh,s39163,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-035
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX053.met

Software Version 3.1.7
 Run Date: 2/23/2019 7:45:58 AM
 Analysis Date: 2/25/2019 10:24:24 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-035

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Carbon Marker Run

Inst : GC05
 Seqnum : 319117194040 File : 081_040
 Standards: S39468 (1000X), S39864 (5000X)

IDF : 1.0
 Time : 23-MAR-2019 09:49

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C6 - n-Hexane	A	1.583	+/- 6s (0.100m)	1.483 - 1.683
C7 - n-Heptane	A	3.183	+/- 6s (0.100m)	3.083 - 3.283
C8 - n-Octane	A	6.55	+/- 6s (0.100m)	6.450 - 6.650
C10 - n-Decane	A	14.317	+/- 6s (0.100m)	14.217 - 14.417
C12 - n-Dodecane	A	21.283	+/- 6s (0.100m)	21.183 - 21.383

Carbon Range	Channel	Range Start	Range Stop
Gasoline C6-C10	A	1.483	14.417
Gasoline C6-C12	A	1.483	21.383
Gasoline C7-C12	A	3.083	21.383
JP-4 C7-C12	A	3.083	21.383
Aviation Gasoline C6-C10	A	1.483	14.417
Aviation Gasoline C7-C12	A	3.083	21.383

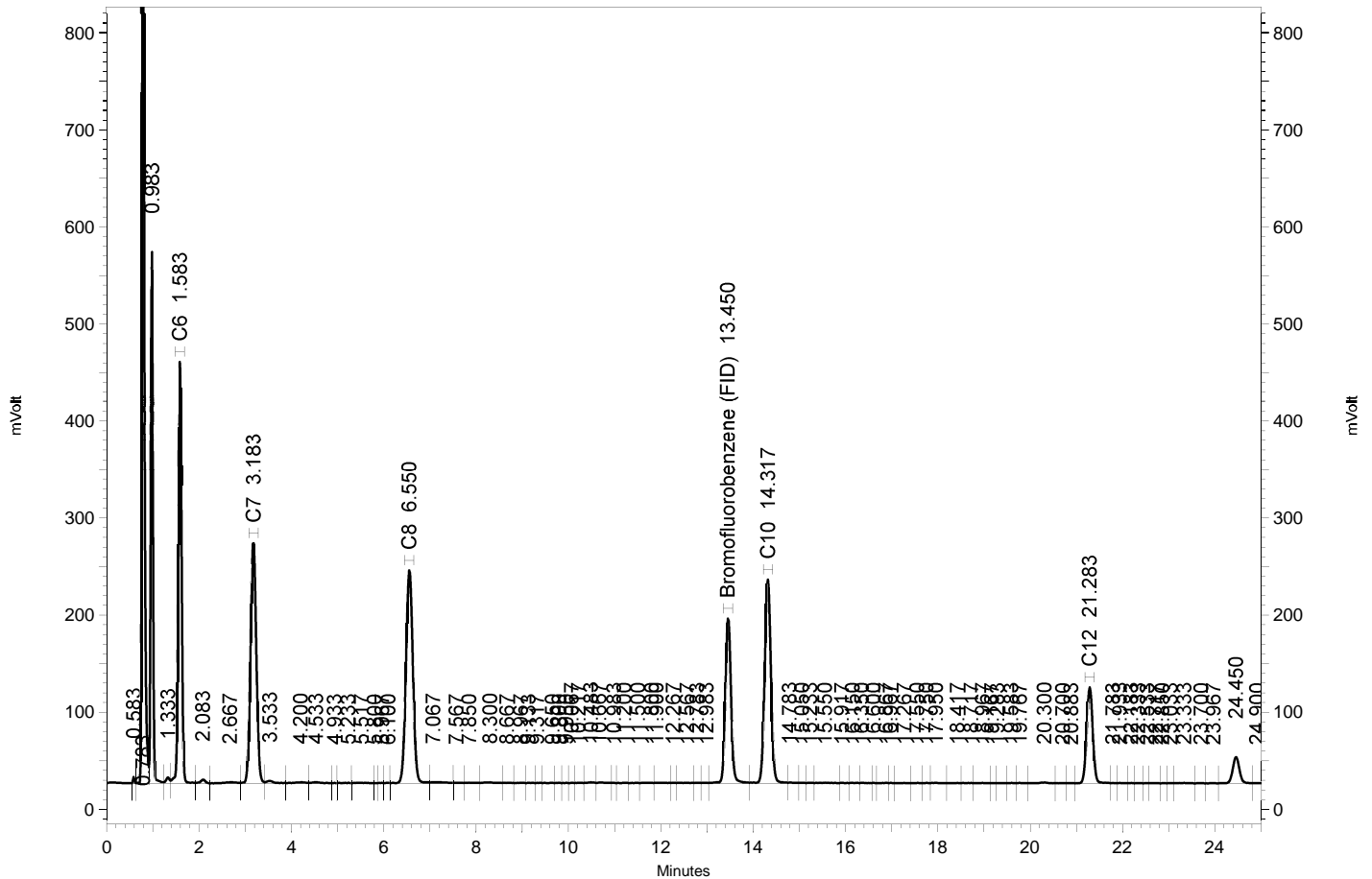
EZChrom method retention times successfully validated.

Analyst: ALE Date: 03/25/19 Reviewer: TKM Date: 03/25/19

GC05
TVH Instrument Results
 Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
C6	1.583	1.583	2194790	0.000
C7	3.183	3.183	2199085	0.000
C8	6.550	6.550	2300494	0.000
Bromofluorobenzene (FID)	13.450	13.450	1468926	0.000
C10	14.317	14.317	1991492	0.000
C12	21.283	21.283	919709	0.000
?			0	0.000
?			0	0.000
?			0	0.000



Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\081.seq	Software Version 3.1.7
Sample Name: cmarker,s39468,5/5000	Run Date: 3/23/2019 9:49:50 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\081-040	Analysis Date: 3/23/2019 10:18:33 AM
Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe081.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.450	13.433	1468926	816.117
GAS:6-10			9100632	3742.543
GAS:6-12			10179213	3473.747
GAS:7-12			7923650	3393.088
JP4:7-12			7923650	1781.441
AVGAS:6-10			9100632	2277.091
AVGAS:7-12			7923650	3231.720

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.583	1.517	440800	69.067
Benzene	3.183	3.217	939908	27.536
Toluene		6.683		0.000 BDL
Ethylbenzene	10.483	10.467	12921	0.441
m,p-Xylenes	10.700	10.683	14322	0.425
o-Xylene	11.833	11.767	5608	0.197
Bromofluorobenzene (PID)	13.450	13.467	15479806	725.939

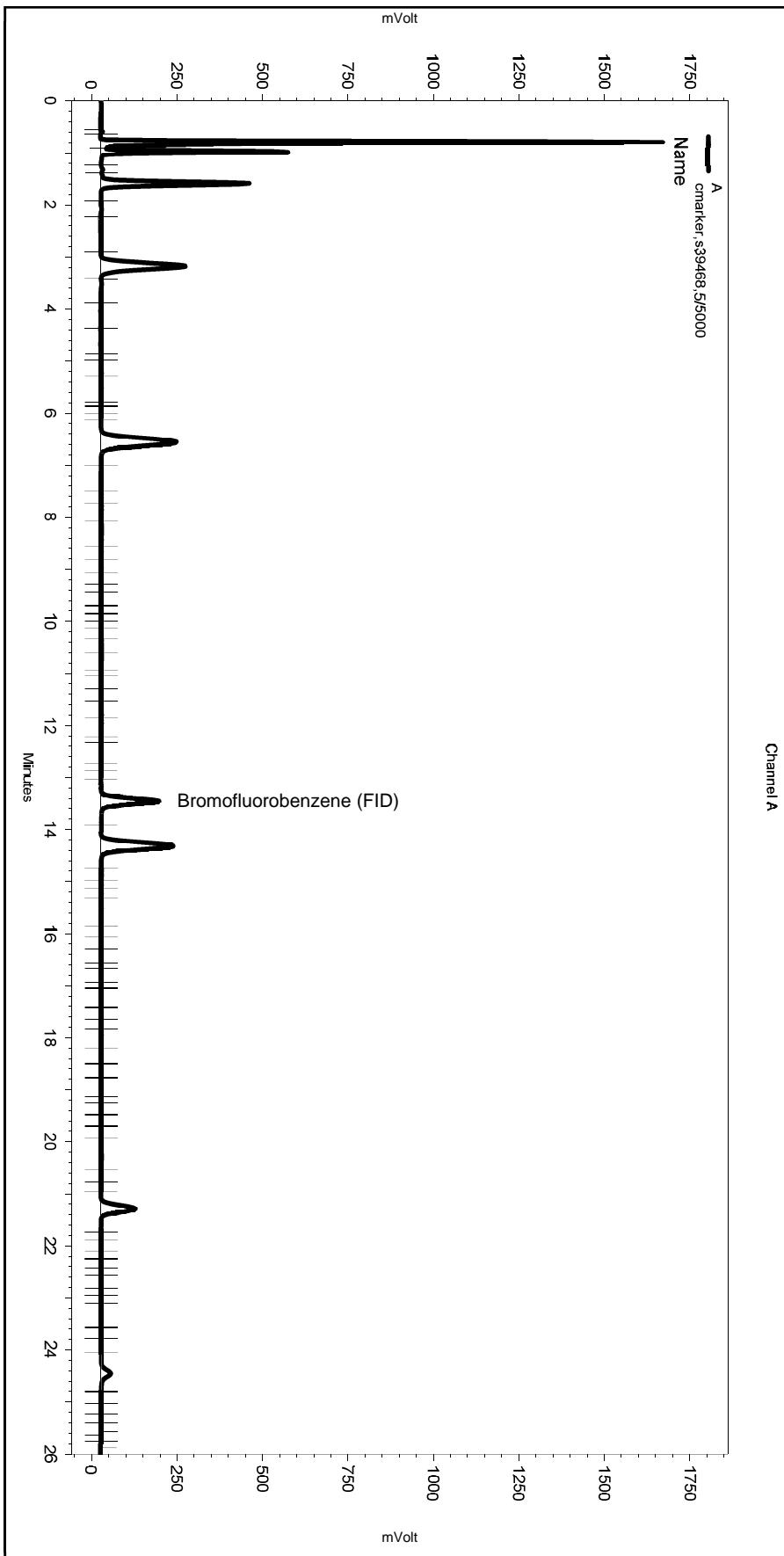
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.800	1.800	1155	1.966
Benzene	3.000	3.016	629	0.163
Toluene	6.183	6.183	2009	0.555
Ethylbenzene	9.766	9.783	516	0.170
m,p-Xylenes	10.116	10.133	1675	0.462
o-Xylene	10.966	10.966	1707	0.509
Bromofluorobenzene (PID)	11.866	11.866	1797363	756.931

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\081.seq
 Sample Name: cmarker,s39468,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\081-040
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe081.met

Software Version 3.1.7
 Run Date: 3/23/2019 9:49:50 AM
 Analysis Date: 3/23/2019 10:18:33 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

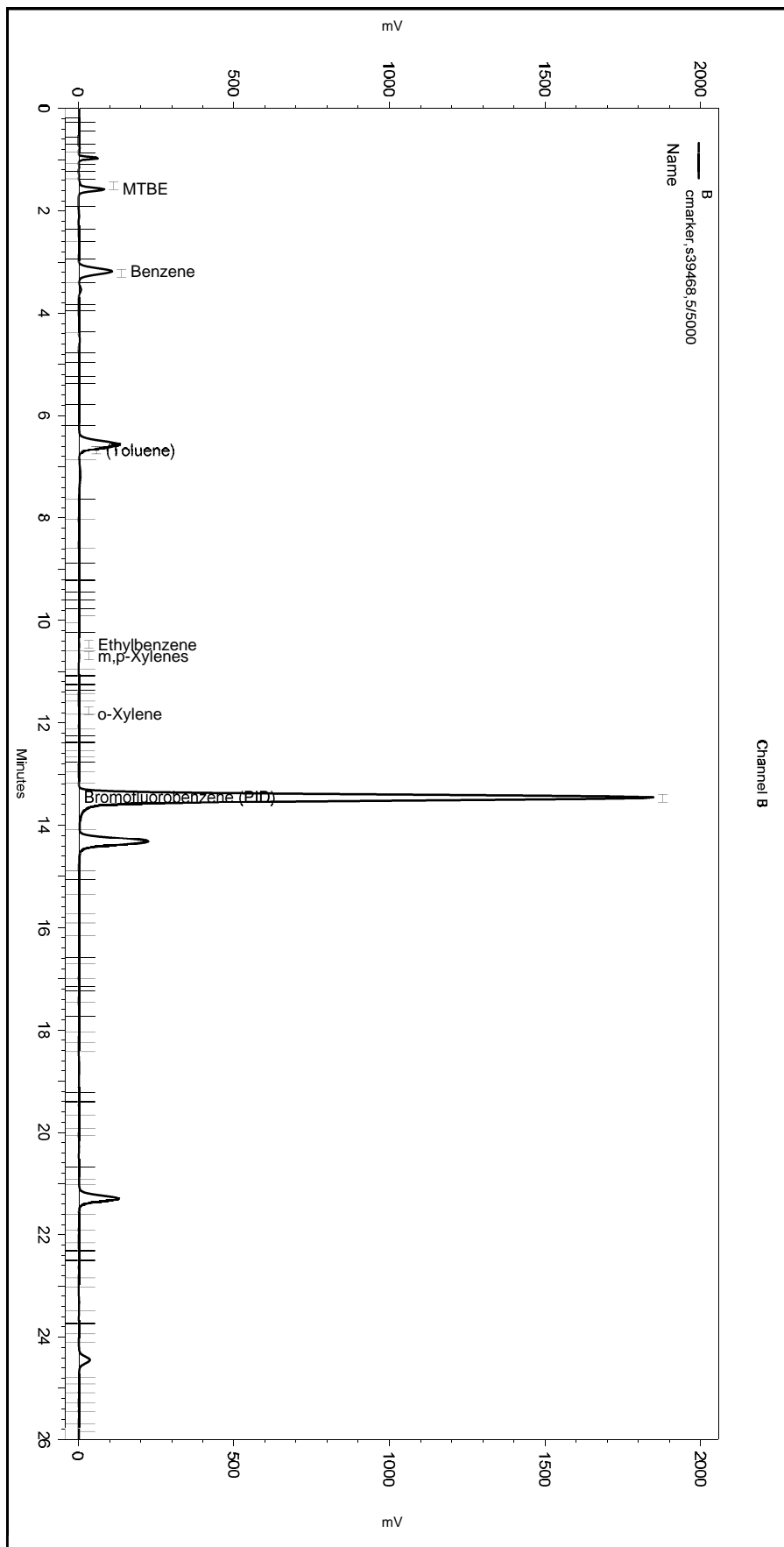
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\081-040_8EE3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\081.seq
 Sample Name: cmarker,s39468,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\081-040
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe081.met

Software Version 3.1.7
 Run Date: 3/23/2019 9:49:50 AM
 Analysis Date: 3/23/2019 10:18:33 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 --< General Method Parameters >-----

No items selected for this section

 --< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

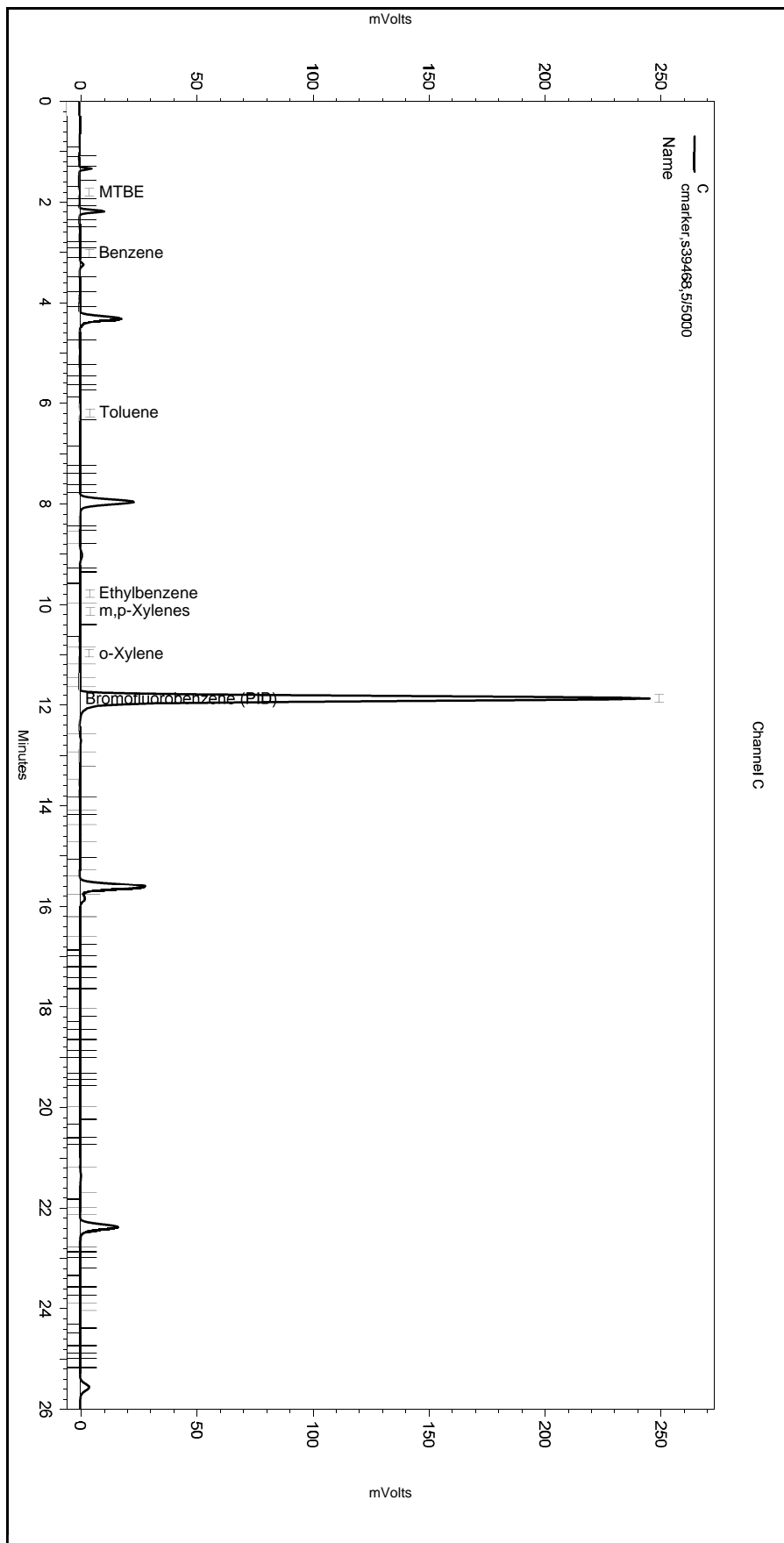
Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\081-040_8EE3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\081.seq
 Sample Name: cmarker,s39468,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\081-040
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe081.met

Software Version 3.1.7
 Run Date: 3/23/2019 9:49:50 AM
 Analysis Date: 3/23/2019 10:18:33 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\081-040_8EE3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Carbon Marker Run

Inst : GC07
 Seqnum : 329076864036
 Standards: S39468 (1000X), S39864 (5000X)

File : 053_036

IDF : 1.0
 Time : 23-FEB-2019 08:24

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C6 - n-Hexane	A	2.317	+/- 6s (0.100m)	2.217 - 2.417
C7 - n-Heptane	A	4.6	+/- 6s (0.100m)	4.500 - 4.700
C8 - n-Octane	A	8.3	+/- 6s (0.100m)	8.200 - 8.400
C10 - n-Decane	A	16.1	+/- 6s (0.100m)	16.000 - 16.200
C12 - n-Dodecane	A	23.033	+/- 6s (0.100m)	22.933 - 23.133

Carbon Range	Channel	Range Start	Range Stop
Gasoline C6-C10	A	2.217	16.200
Gasoline C6-C12	A	2.217	23.133
Gasoline C7-C12	A	4.500	23.133
JP-4 C7-C12	A	4.500	23.133

EZChrom method retention times successfully validated.

Analyst: JM2

Date: 02/25/19

Reviewer: EAH

Date: 02/25/19

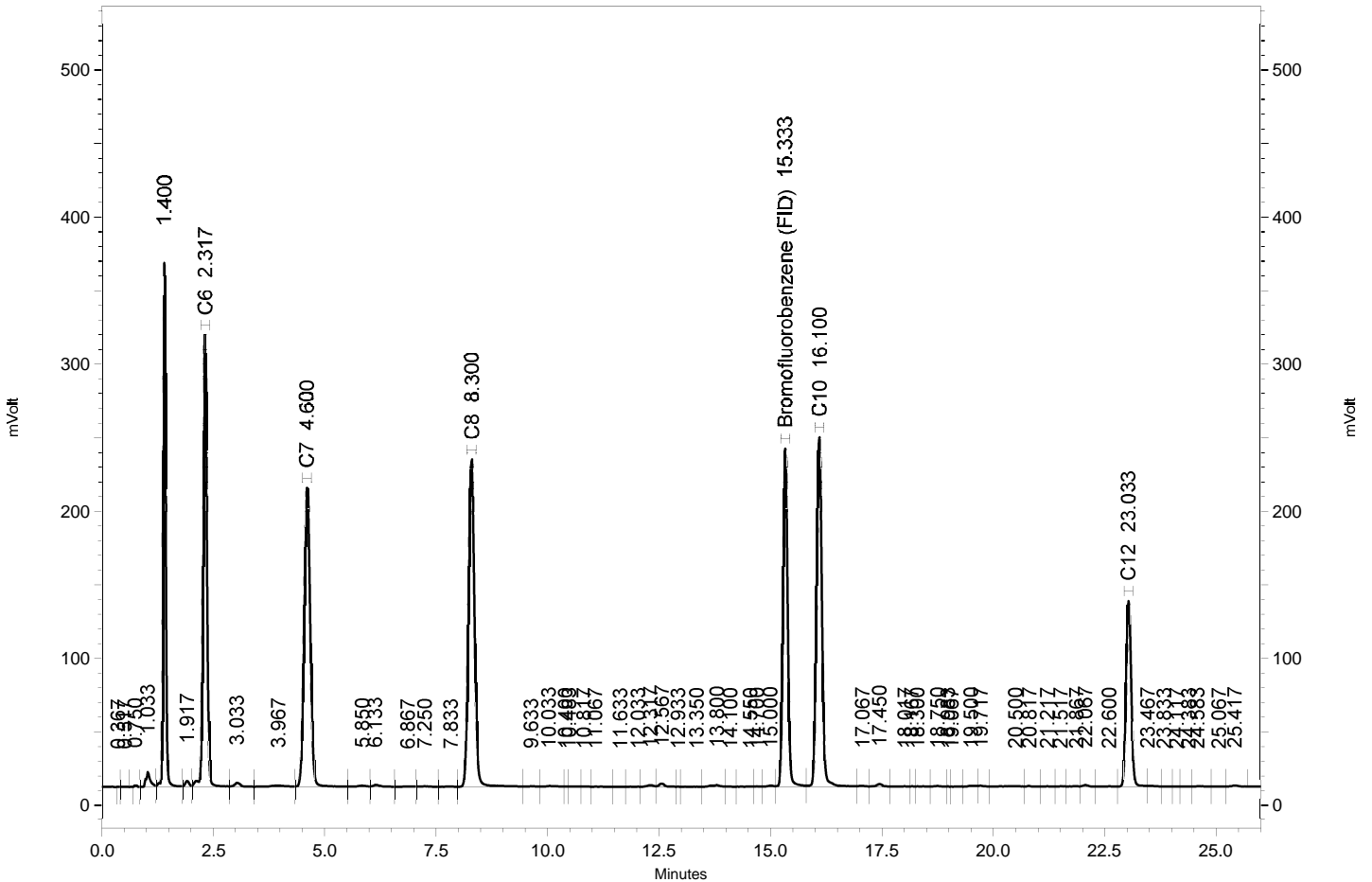
GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
C6	2.317	2.317	1883242	0.000
C7	4.600	4.600	1976086	0.000
C8	8.300	8.300	2113224	0.000
Bromofluorobenzene (FID)	15.333	15.333	1665996	0.000
C10	16.100	16.100	1981460	0.000
C12	23.033	23.033	1005073	0.000
?			0	0.000
?			0	0.000
?			0	0.000



Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
Sample Name: cmarker,s39468,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-036
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
Run Date: 2/23/2019 8:24:23 AM
Analysis Date: 2/23/2019 8:53:07 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.333	15.350	1665996	796.971
GAS:6-10			8182551	3750.902
GAS:6-12			9307372	3449.560
GAS:7-12			7365236	3447.920
JP4:7-12			7365236	1964.482
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.167	2.200	88316	5.203
Benzene	4.600	4.633	1241916	26.268
Toluene		8.483		0.000 BDL
Ethylbenzene	12.317	12.333	85132	2.201
m,p-Xylenes	12.567	12.567	156589	3.577
o-Xylene	13.683	13.667	47356	1.200
Bromofluorobenzene (PID)	15.333	15.350	23414166	611.266

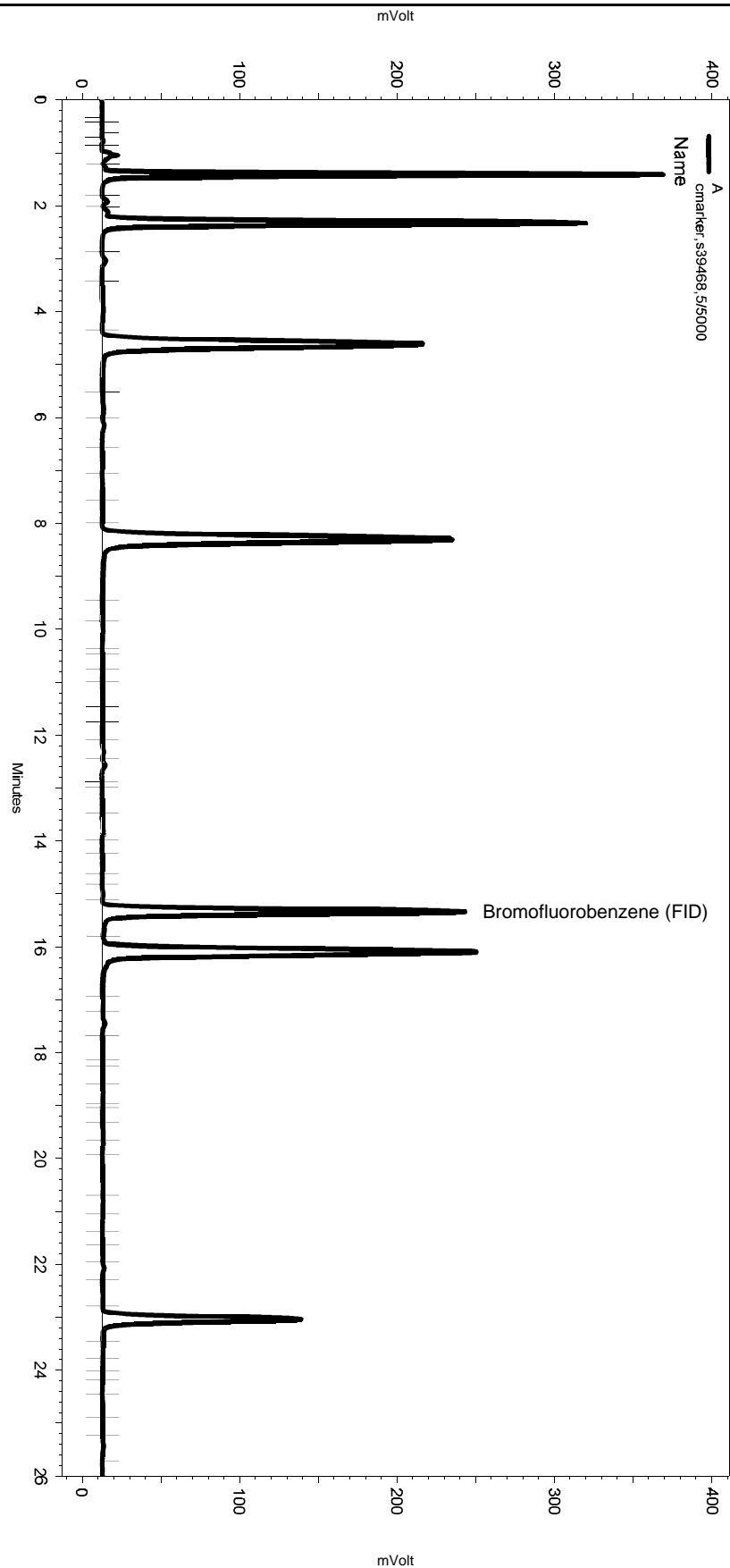
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.017	2.050	91190	6.351
Benzene	3.516	3.466	16500	0.413
Toluene	6.933	6.933	64869	1.734
Ethylbenzene	10.583	10.566	30337	0.989
m,p-Xylenes	10.916	10.933	114231	2.941
o-Xylene	11.766	11.766	78723	2.058
Bromofluorobenzene (PID)	12.666	12.683	22656296	663.775

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: cmarker,s39468,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-036
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 8:24:23 AM
 Analysis Date: 2/23/2019 8:53:07 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

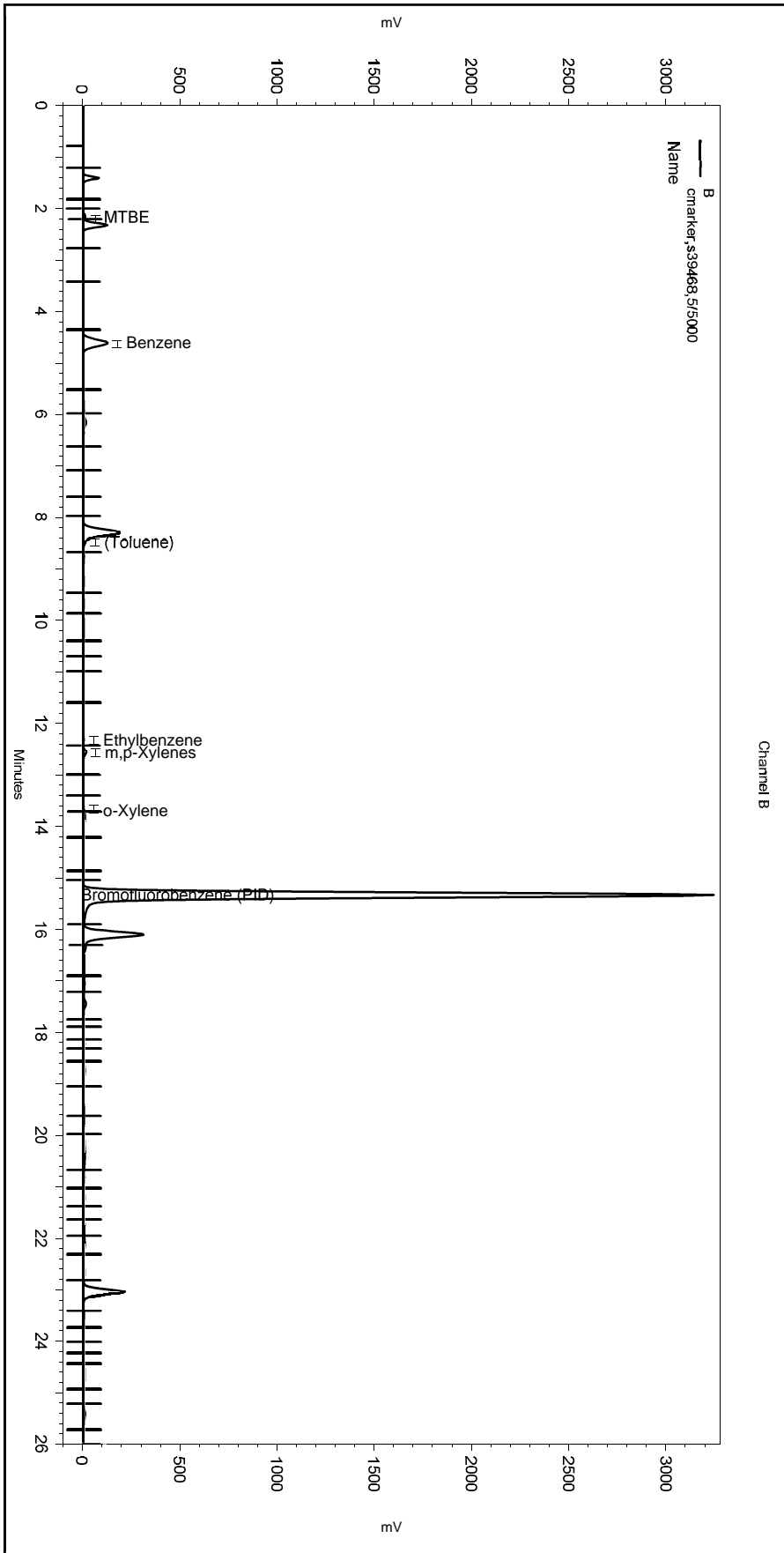
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\053-036_7197.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: cmarker,s39468,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-036
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 8:24:23 AM
 Analysis Date: 2/23/2019 8:53:07 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

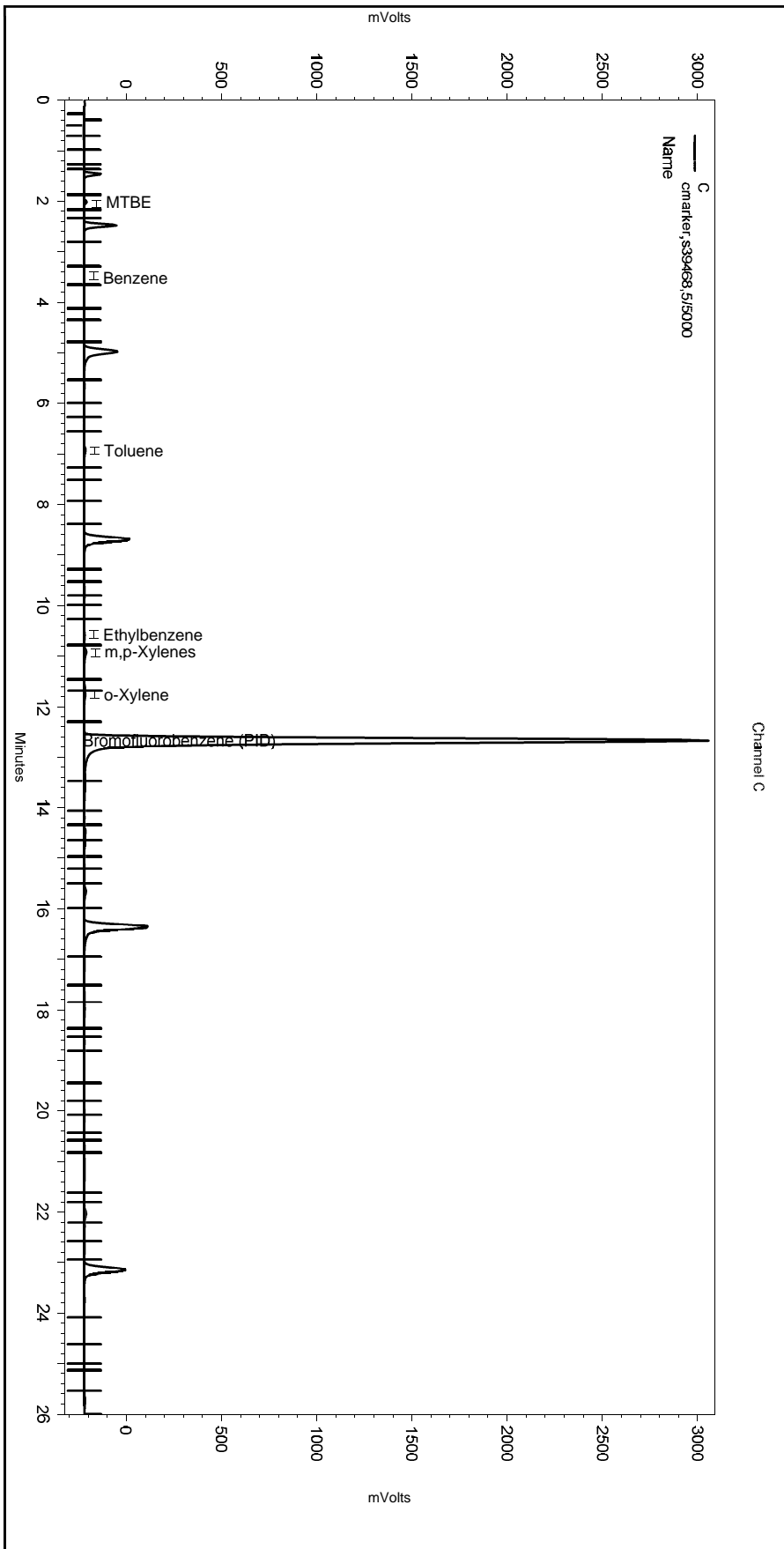
Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\053-036_7197.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\053.seq
 Sample Name: cmarker,s39468,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\053-036
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053.met

Software Version 3.1.7
 Run Date: 2/23/2019 8:24:23 AM
 Analysis Date: 2/23/2019 8:53:07 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\053-036_7197.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C

Continuing Calibration Verification Raw Data

ENTHALPY SPIKE USER REPORT FOR 309066 GCVOA Water
EPA 8021B

Inst : GC05 Run Name : QC972738 IDF : 1.0
 Seqnum : 319157509003.1 File : 109_003 Time : 19-APR-2019 10:24
 Cal : 319127265001 Caldate : 30-MAR-2019
 Standards: S39719 (2000X), S39864 (5000X)

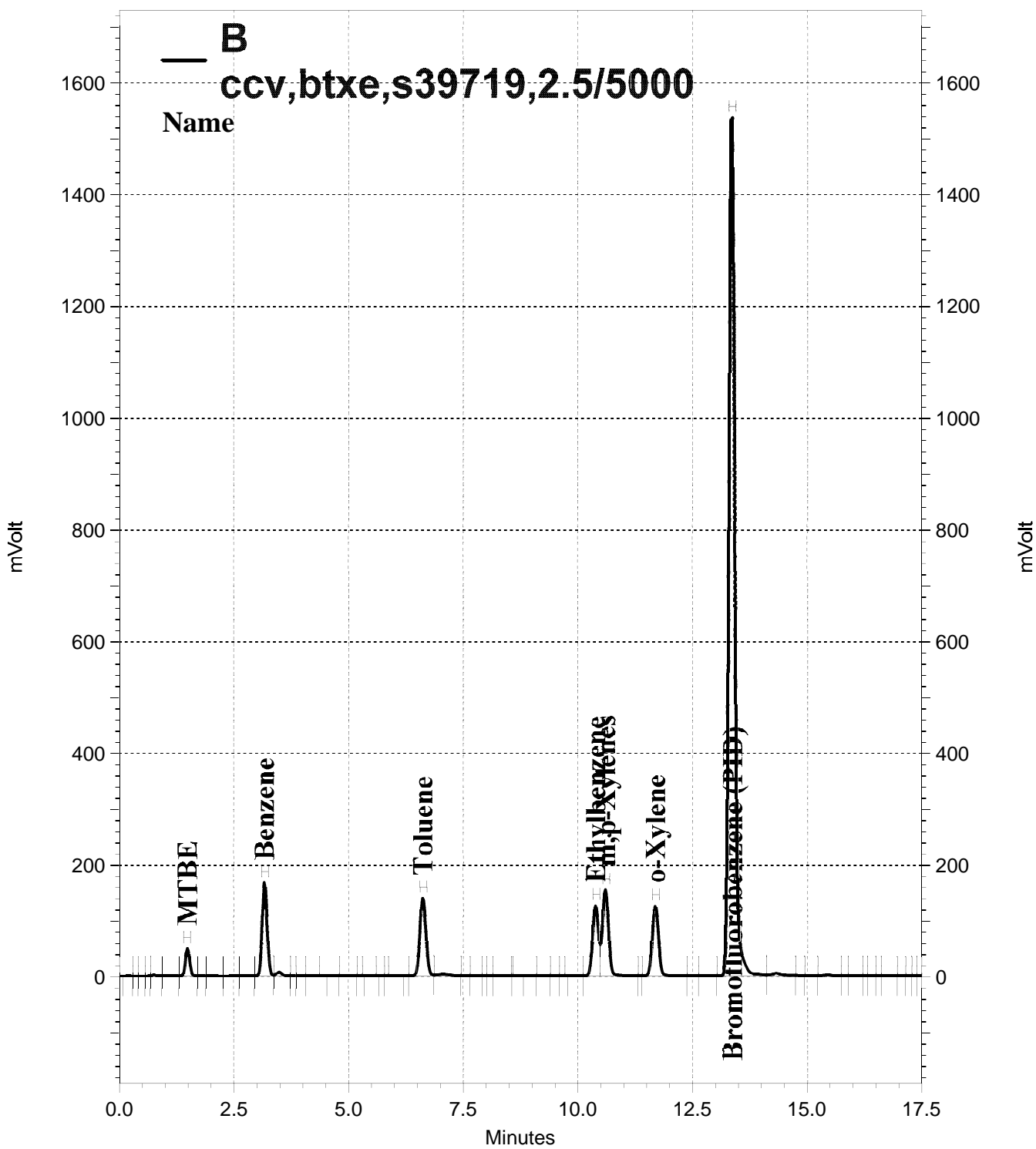
Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Benzene	C	3255.8	3004.0	50.00	46.13	ng	-8	15	u
Benzene	B	31287	25390	50.00	40.58	ng	-19	15	c- ***
Toluene	B	28632	26032	50.00	45.46	ng	-9	15	u
Toluene	C	2955.9	2986.4	50.00	50.52	ng	1	15	
Ethylbenzene	B	24647	22451	50.00	45.54	ng	-9	15	u
Ethylbenzene	C	2465.9	2518.0	50.00	51.06	ng	2	15	
m,p-Xylenes	B	29293	29520	50.00	50.39	ng	1	15	u
m,p-Xylenes	C	2919.7	3000.9	50.00	51.39	ng	3	15	
o-Xylene	B	24847	24063	50.00	48.42	ng	-3	15	u
o-Xylene	C	2520.8	2536.7	50.00	50.31	ng	1	15	
Bromofluorobenzene (PID)	B	18727	14961	900.0	719.0	ng	-20	15	c- u
Bromofluorobenzene (PID)	C	1865.3	1664.4	900.0	803.1	ng	-11	15	

JM2 04/19/19 : Reporting from Channel C for benzene, using Channel B as confirmation. [general version]

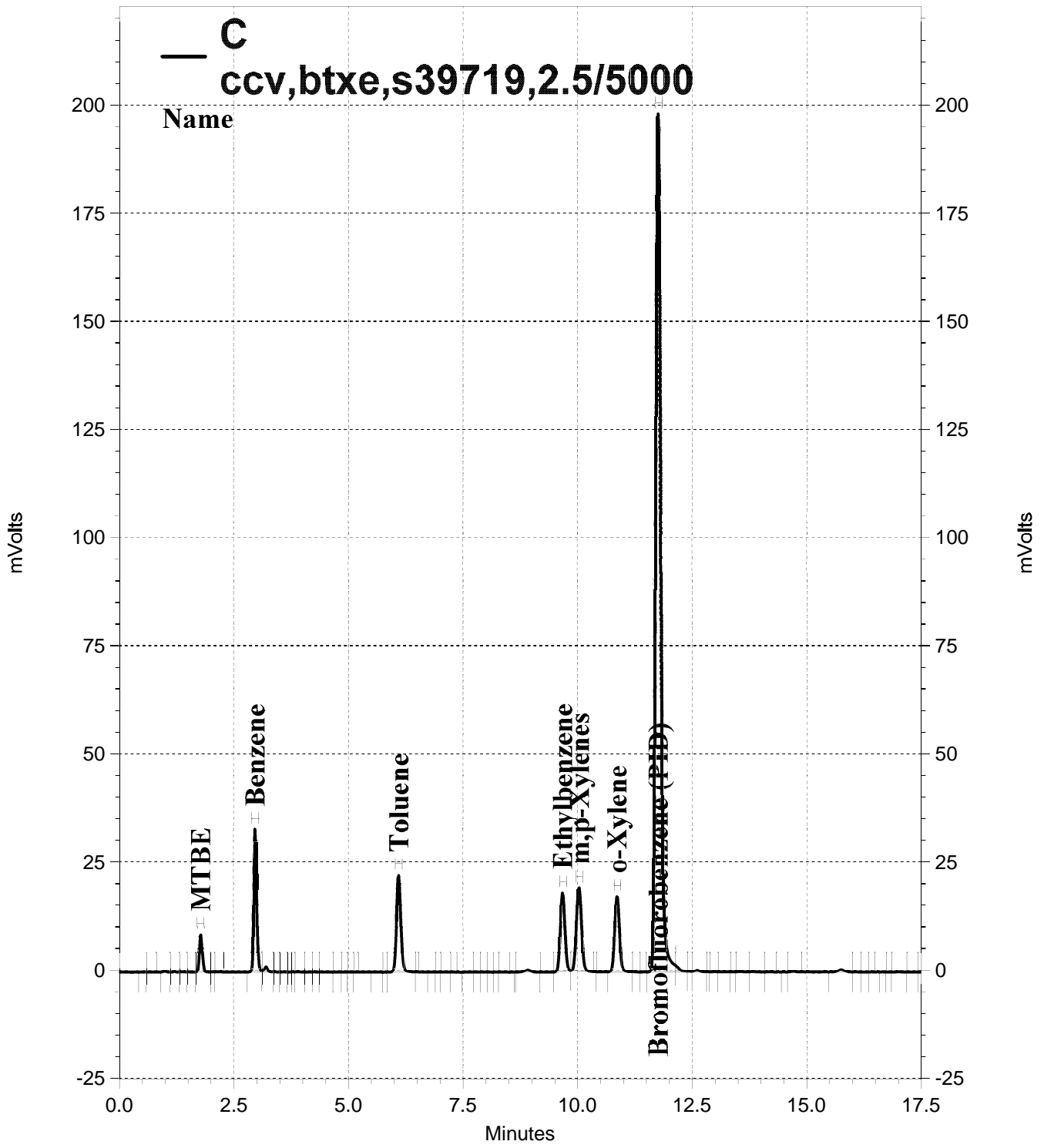
JM2 04/19/19 [Bromofluorobenzene (PID) B]: Passes control limits. [general version]

Analyst: JM2 Date: 04/22/19 Reviewer: EAH Date: 04/24/19

--low bias c=CCV u=use



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003, B



C
ccv,btxe,s39719,2.5/5000
Name

\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq	Software Version 3.1.7
Sample Name: ccv,btxe,s39719,2.5/5000	Run Date: 4/19/2019 10:24:31 AM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003	Analysis Date: 4/19/2019 10:53:13 AM
Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.350	13.367	1216725	678.663
GAS:6-10			1471175	650.017
GAS:6-12			1668823	638.832
GAS:7-12			1631684	808.275
JP4:7-12			1631684	366.845
AVGAS:6-10			1471175	368.106
AVGAS:7-12			1631684	665.494

BTXE Instrument Results
Channel B: RTX-502.2 PID

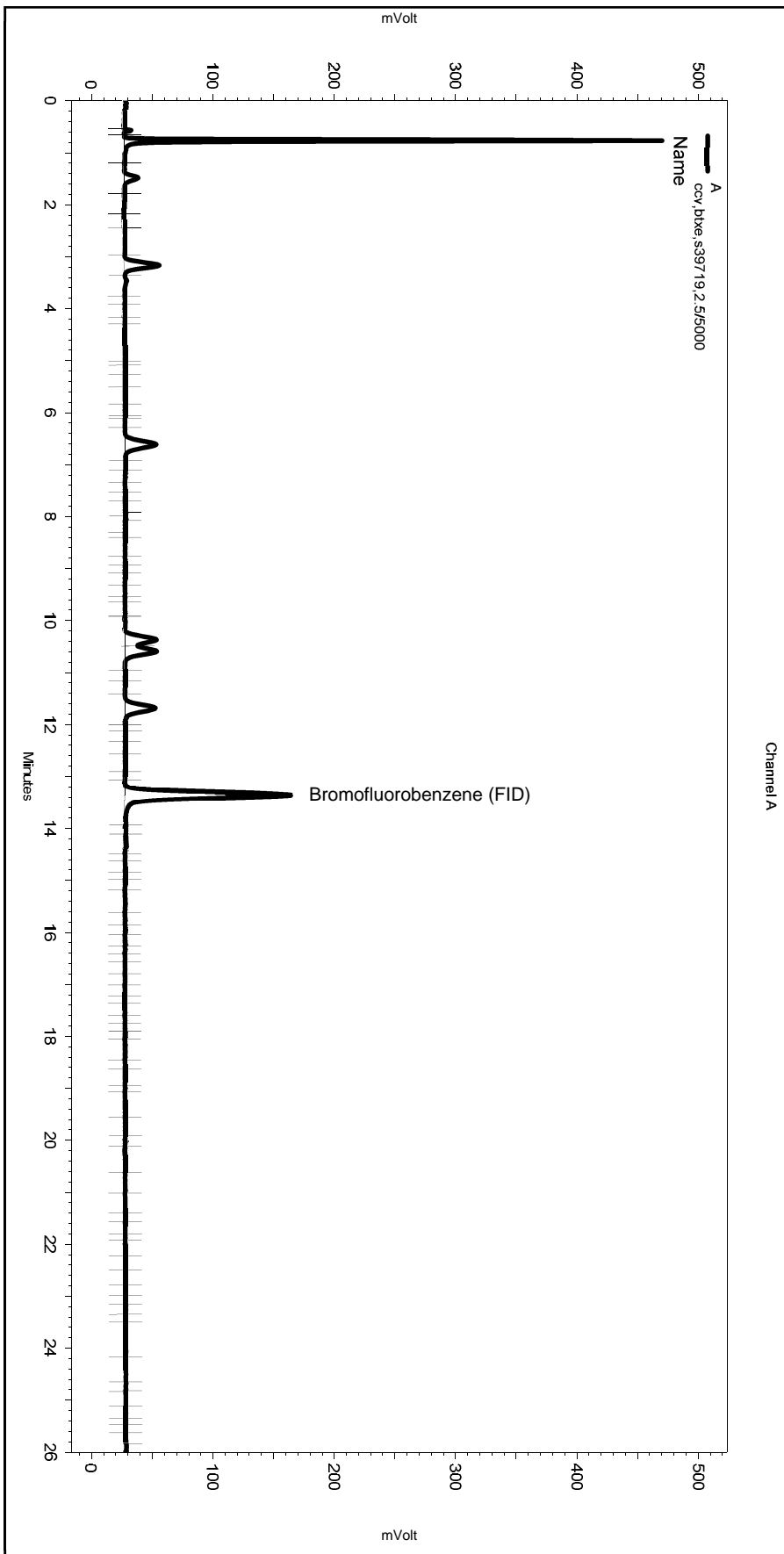
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.483	1.483	329330	35.457
Benzene	3.167	3.183	1269517	40.577
Toluene	6.617	6.633	1301602	45.460
Ethylbenzene	10.383	10.400	1122532	45.544
m,p-Xylenes	10.600	10.617	1476022	50.388
o-Xylene	11.683	11.700	1203167	48.424
Bromofluorobenzene (PID)	13.367	13.367	13465062	719.029

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.783	1.783	40295	40.988
Benzene	2.966	2.966	150198	46.132
Toluene	6.100	6.100	149320	50.516
Ethylbenzene	9.666	9.683	125901	51.057
m,p-Xylenes	10.033	10.033	150047	51.391
o-Xylene	10.849	10.866	126834	50.314
Bromofluorobenzene (PID)	11.749	11.766	1497979	803.092

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: ccv,btxe,s39719,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 10:24:31 AM
 Analysis Date: 4/19/2019 10:53:13 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

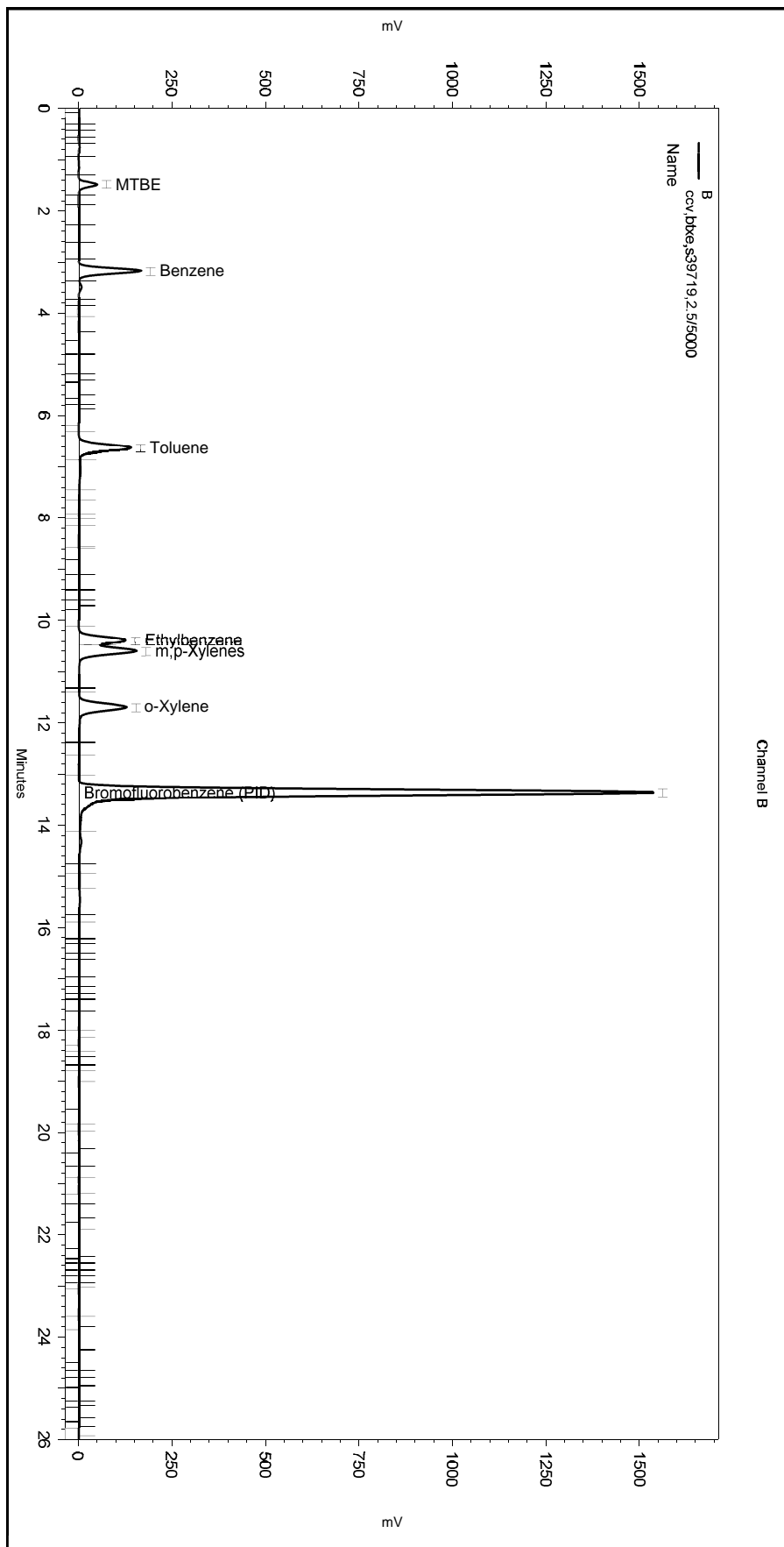
Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-003_C9AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: ccv,btxe,s39719,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 10:24:31 AM
 Analysis Date: 4/19/2019 10:53:13 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

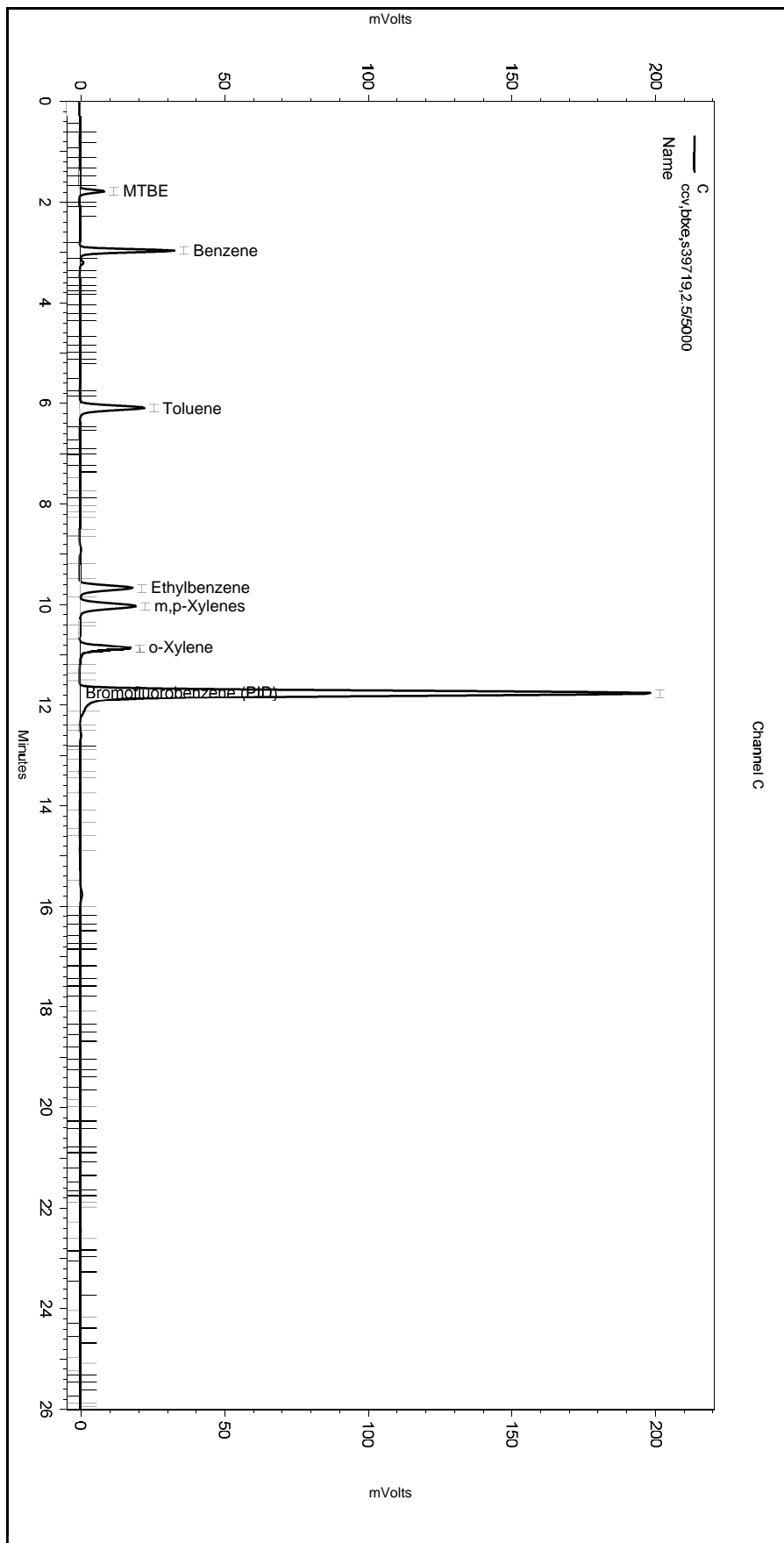
Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048109-003_C9AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq
 Sample Name: ccv,btxe,s39719,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-003
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 10:24:31 AM
 Analysis Date: 4/19/2019 10:53:13 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\109-003_C9AB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCVOA Water
EPA 8021B

Inst : GC05 Run Name : BTXE IDF : 1.0
 Seqnum : 319157509016 File : 109_016 Time : 19-APR-2019 19:01
 Cal : 319127265001 Caldate : 30-MAR-2019
 Standards: S39719 (1000X), S39864 (5000X)

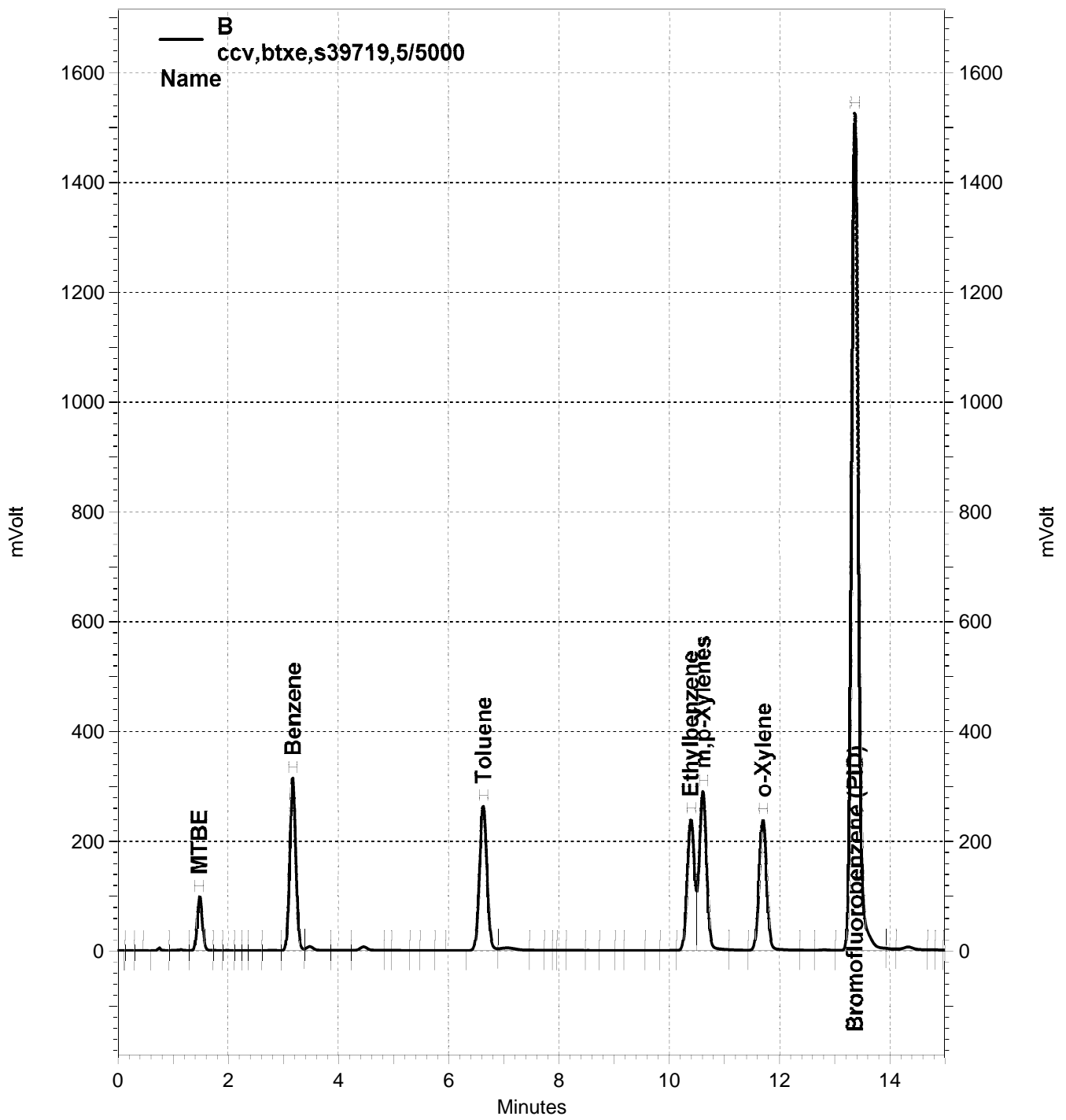
Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Benzene	B	31287	24107	100.0	77.05	ng	-23	15	c- ***
Toluene	B	28632	24738	100.0	86.40	ng	-14	15	
Ethylbenzene	B	24647	21920	100.0	88.93	ng	-11	15	
m,p-Xylenes	B	29293	27056	100.0	92.36	ng	-8	15	
o-Xylene	B	24847	22871	100.0	92.05	ng	-8	15	
Bromofluorobenzene (PID)	B	18727	14583	900.0	700.9	ng	-22	15	c-
Benzene	C	3255.8	2957.3	100.0	90.83	ng	-9	15	
Toluene	C	2955.9	2939.7	100.0	99.45	ng	-1	15	
Ethylbenzene	C	2465.9	2487.7	100.0	100.9	ng	1	15	
m,p-Xylenes	C	2919.7	2934.0	100.0	100.5	ng	0	15	
o-Xylene	C	2520.8	2512.1	100.0	99.66	ng	0	15	
Bromofluorobenzene (PID)	C	1865.3	1625.7	900.0	784.4	ng	-13	15	

ALE 04/22/19 [Bromofluorobenzene (PID) B]: Passes control limits.

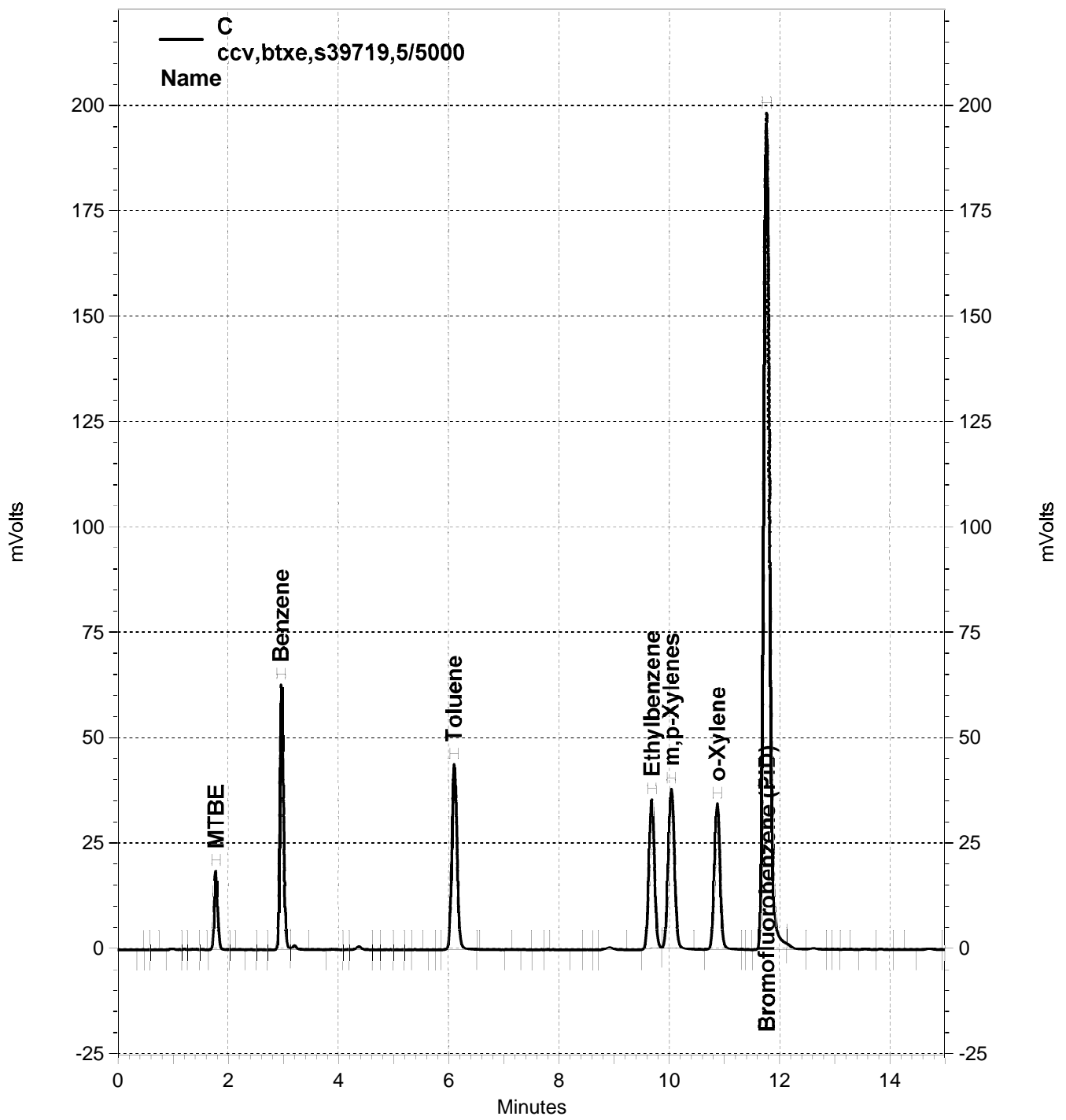
ALE 04/22/19 : Reporting benzene from channel C with B as confirmation.

Analyst: ALE Date: 04/22/19 Reviewer: EAH Date: 04/22/19

--low bias c=CCV



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-016, B



\\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-016, C

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\2019\109.seq	Software Version 3.1.7
Sample Name: ccv,btxe,s39719,5/5000	Run Date: 4/19/2019 7:01:26 PM
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-016	Analysis Date: 4/19/2019 7:30:10 PM
Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met	Vial & pH or Core ID: {Data Description}

GC05
TVH Instrument Results
Channel A: RTX-502.2 FID

A Results Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	13.367	13.367	1225810	683.730
GAS:6-10			2652266	1171.864
GAS:6-12			2811117	1076.106
GAS:7-12			2779164	1376.693
JP4:7-12			2779164	624.828
AVGAS:6-10			2652266	663.630
AVGAS:7-12			2779164	1133.503

BTXE Instrument Results
Channel B: RTX-502.2 PID

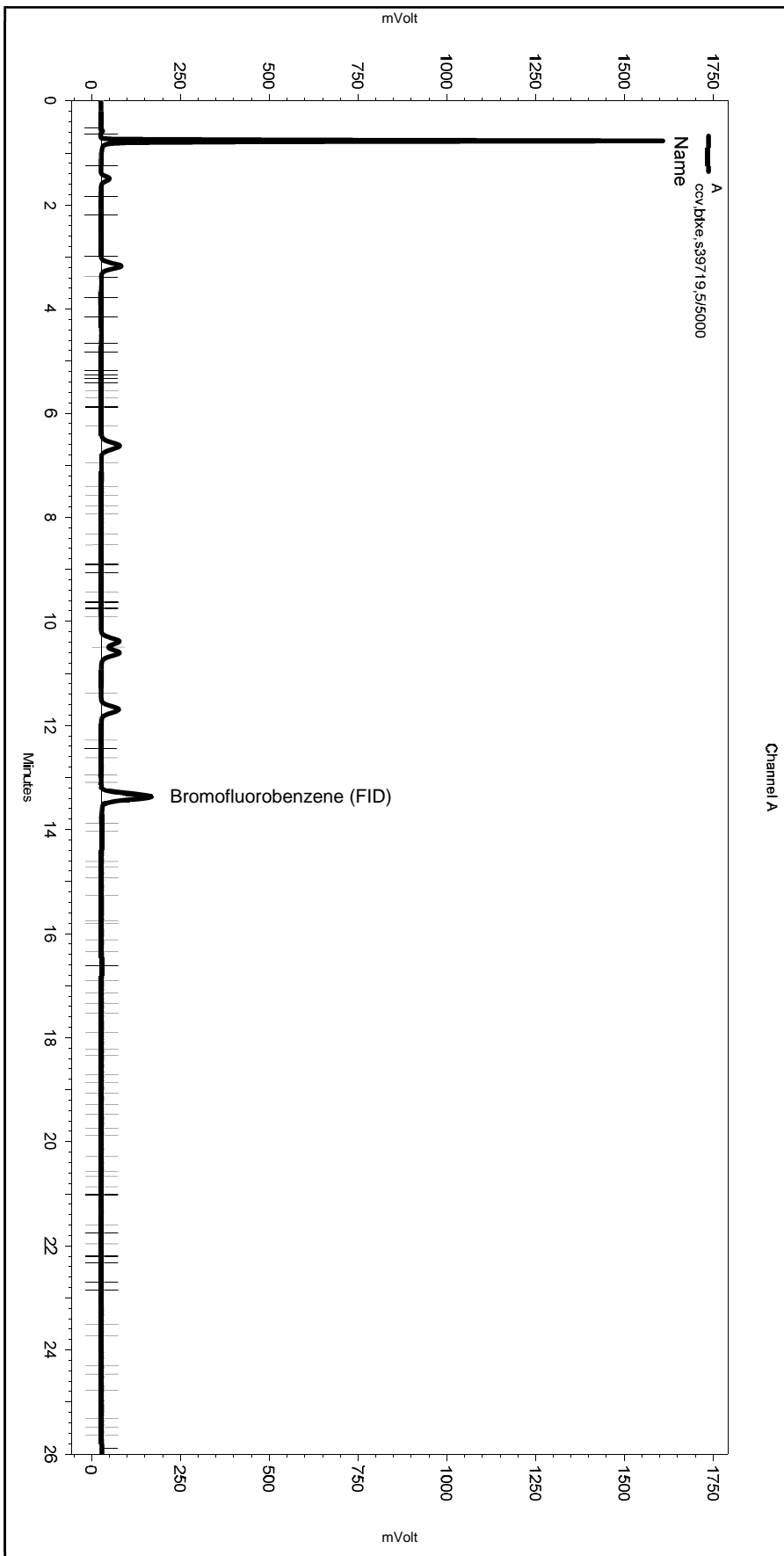
B Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.483	1.483	641878	69.107
Benzene	3.183	3.183	2410658	77.051
Toluene	6.633	6.633	2473845	86.403
Ethylbenzene	10.383	10.400	2191996	88.935
m,p-Xylenes	10.600	10.617	2705583	92.362
o-Xylene	11.700	11.700	2287130	92.049
Bromofluorobenzene (PID)	13.367	13.367	13124683	700.853

Channel C: RTX-1 PID

C Results Name	RT	Exp RT	Area	Concentration (ng)
MTBE	1.783	1.783	84027	85.472
Benzene	2.966	2.966	295731	90.831
Toluene	6.100	6.100	293965	99.450
Ethylbenzene	9.683	9.683	248766	100.883
m,p-Xylenes	10.033	10.033	293401	100.491
o-Xylene	10.866	10.866	251214	99.655
Bromofluorobenzene (PID)	11.766	11.766	1463091	784.388

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: ccv,btxe,s39719,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-016
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 7:01:26 PM
 Analysis Date: 4/19/2019 7:30:10 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< A >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

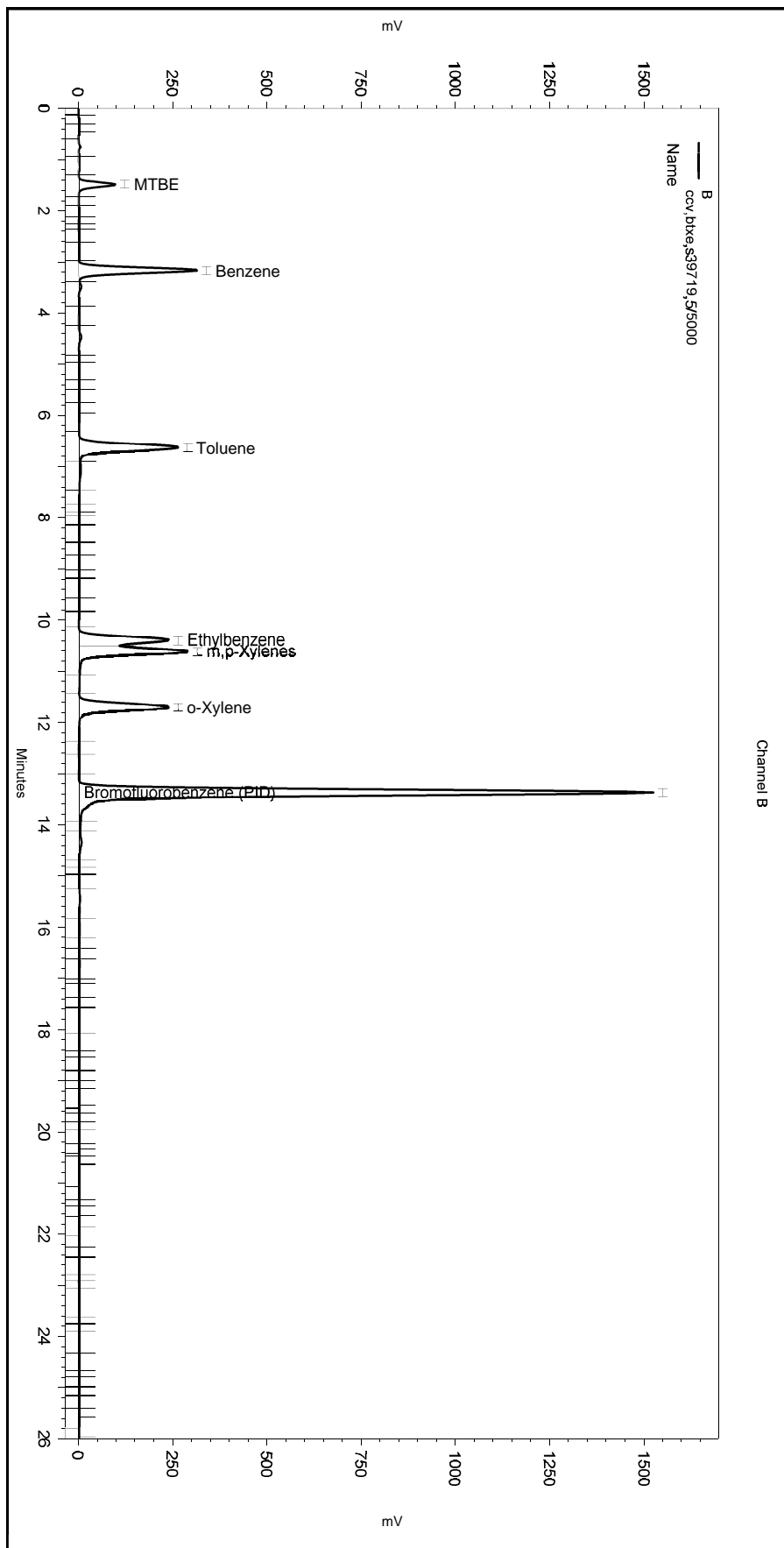
Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\109-016_C9B8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: ccv,btxe,s39719,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-016
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 7:01:26 PM
 Analysis Date: 4/19/2019 7:30:10 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1

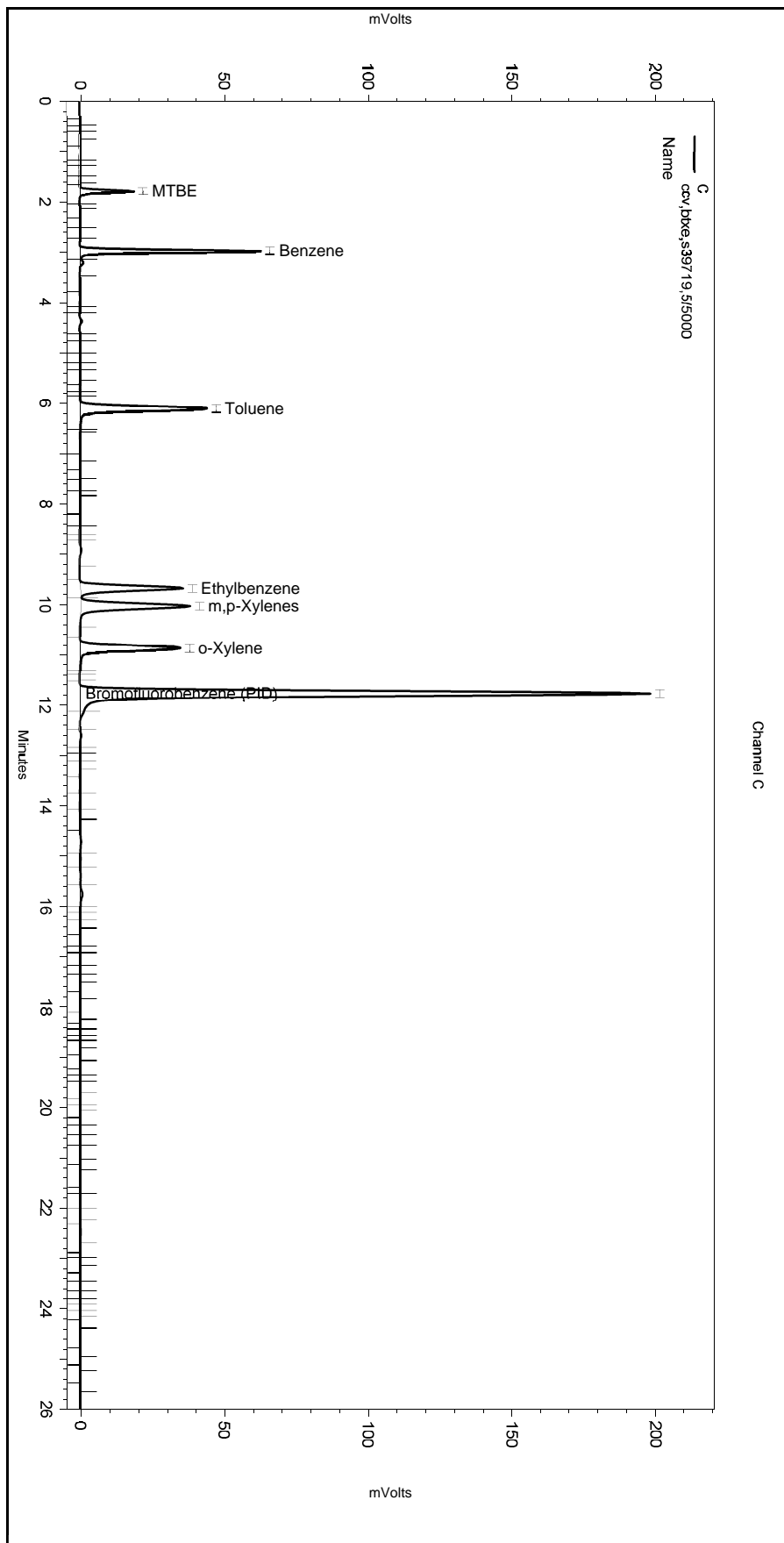
Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10048\109-016_C9B8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence2019\109.seq
 Sample Name: ccv,btxe,s39719,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\2019\109-016
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe088e.met

Software Version 3.1.7
 Run Date: 4/19/2019 7:01:26 PM
 Analysis Date: 4/19/2019 7:30:10 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< C >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	0	1
Yes	Reset Baseline at Valley	6.364	0	0
Yes	Valley to Valley	8.972	9.85	0

Manual Integration Fixes

 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\109-016_C9B8.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
---------	------------	-----------------	----------------	-------

None

ENTHALPY SPIKE USER REPORT FOR 309066 GCVOA Water
EPA 8015B

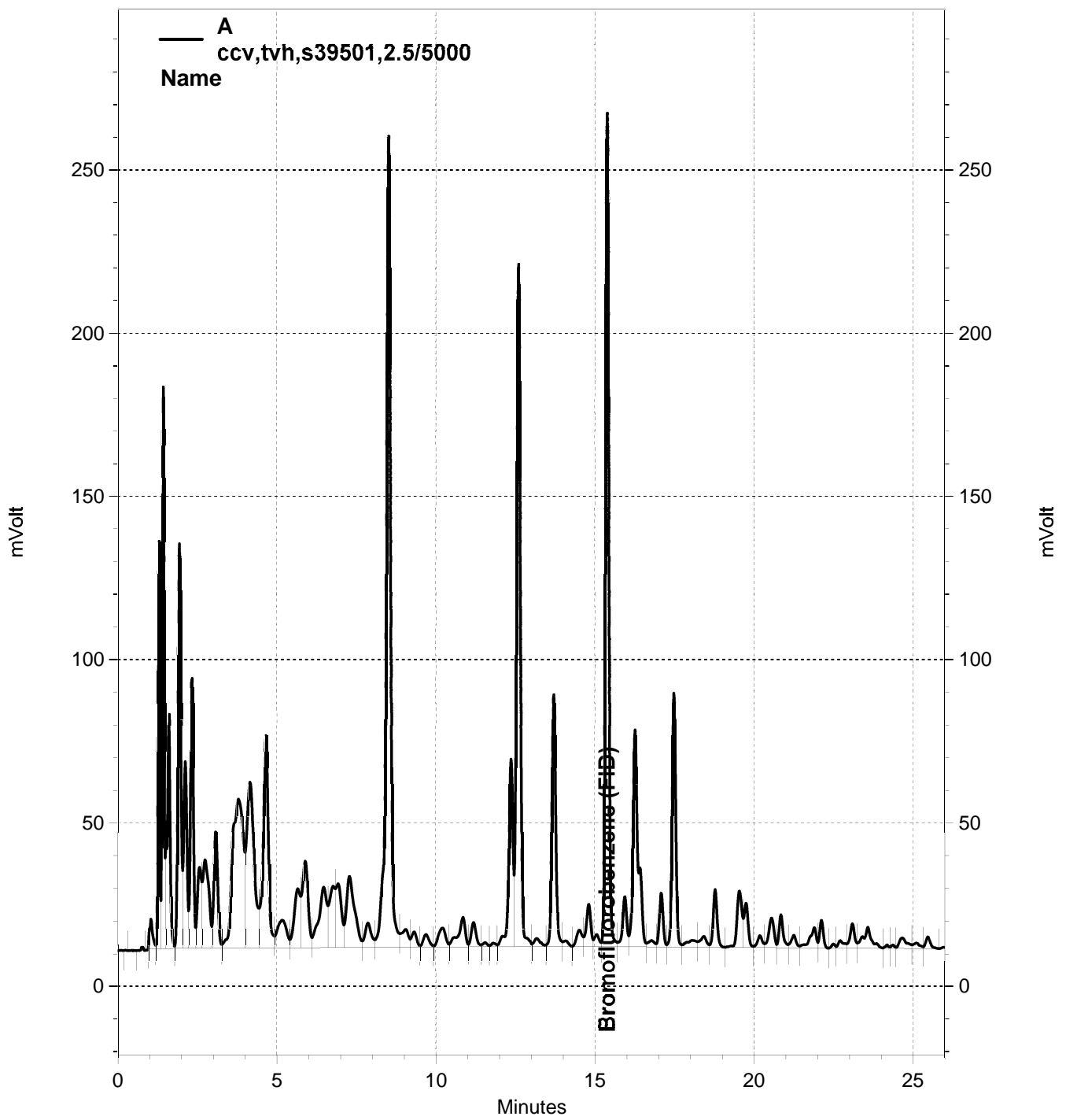
Inst : GC07 Run Name : QC972533 IDF : 1.0
 Seqnum : 329156075002.3 File : 108_002 Time : 18-APR-2019 09:54
 Cal : 329076864001 Caldate : 23-FEB-2019
 Standards: S39501 (2000X), S39864 (5000X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	2120.1	2338.3	5000	5515	ng	10	15	u
Bromofluorobenzene (FID)	A	2090.4	2041.0	900.0	878.7	ng	-2	15	u

ALE 04/18/19 : Corrected automatically drawn baseline for Ch. A. [general version]

Analyst: JM2 Date: 04/22/19 Reviewer: EAH Date: 04/24/19

u=use



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:32:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.433	1836856	878.706
GAS:6-10			13177795	6102.079
GAS:6-12			15056007	5625.884
GAS:7-12			11691383	5514.523
JP4:7-12			11691383	3118.367
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.200	315568	18.592
Benzene	4.683	4.717	2352787	49.764
Toluene	8.517	8.567	14619151	335.997
Ethylbenzene	12.367	12.417	2646349	68.419
m,p-Xylenes	12.600	12.650	12061280	275.491
o-Xylene	13.717	13.750	3991430	101.177
Bromofluorobenzene (PID)	15.383	15.433	25126845	655.978

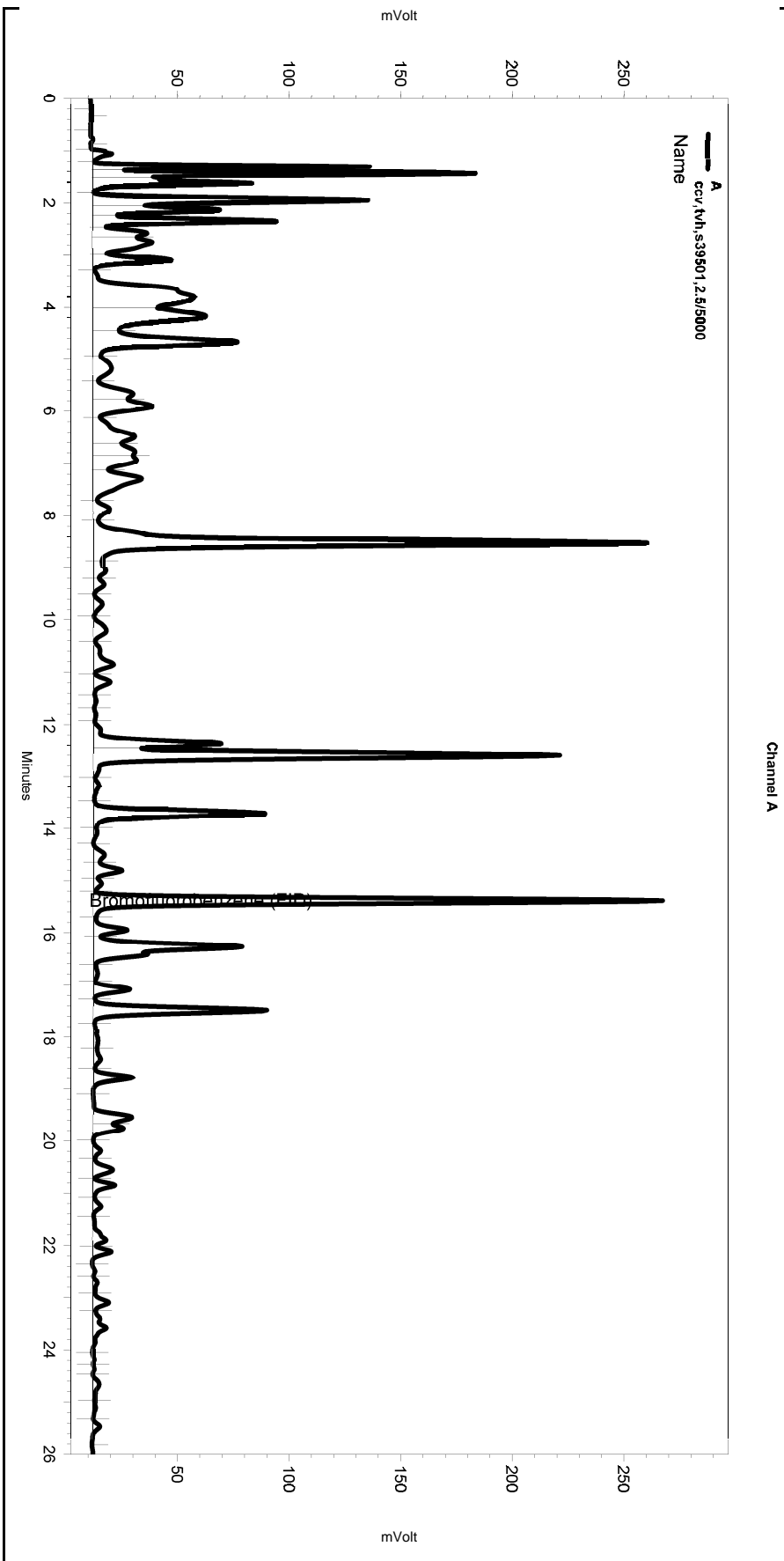
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.067	2.033	798001	55.576
Benzene	3.533	3.550	2113610	52.850
Toluene	6.950	6.983	14447058	386.289
Ethylbenzene	10.583	10.633	2419343	78.909
m,p-Xylenes	10.933	10.999	11833717	304.676
o-Xylene	11.799	11.849	3828120	100.066
Bromofluorobenzene (PID)	12.699	12.749	24073403	705.293

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:32:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 << General Method Parameters >> -----

No items selected for this section

 << A >> -----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

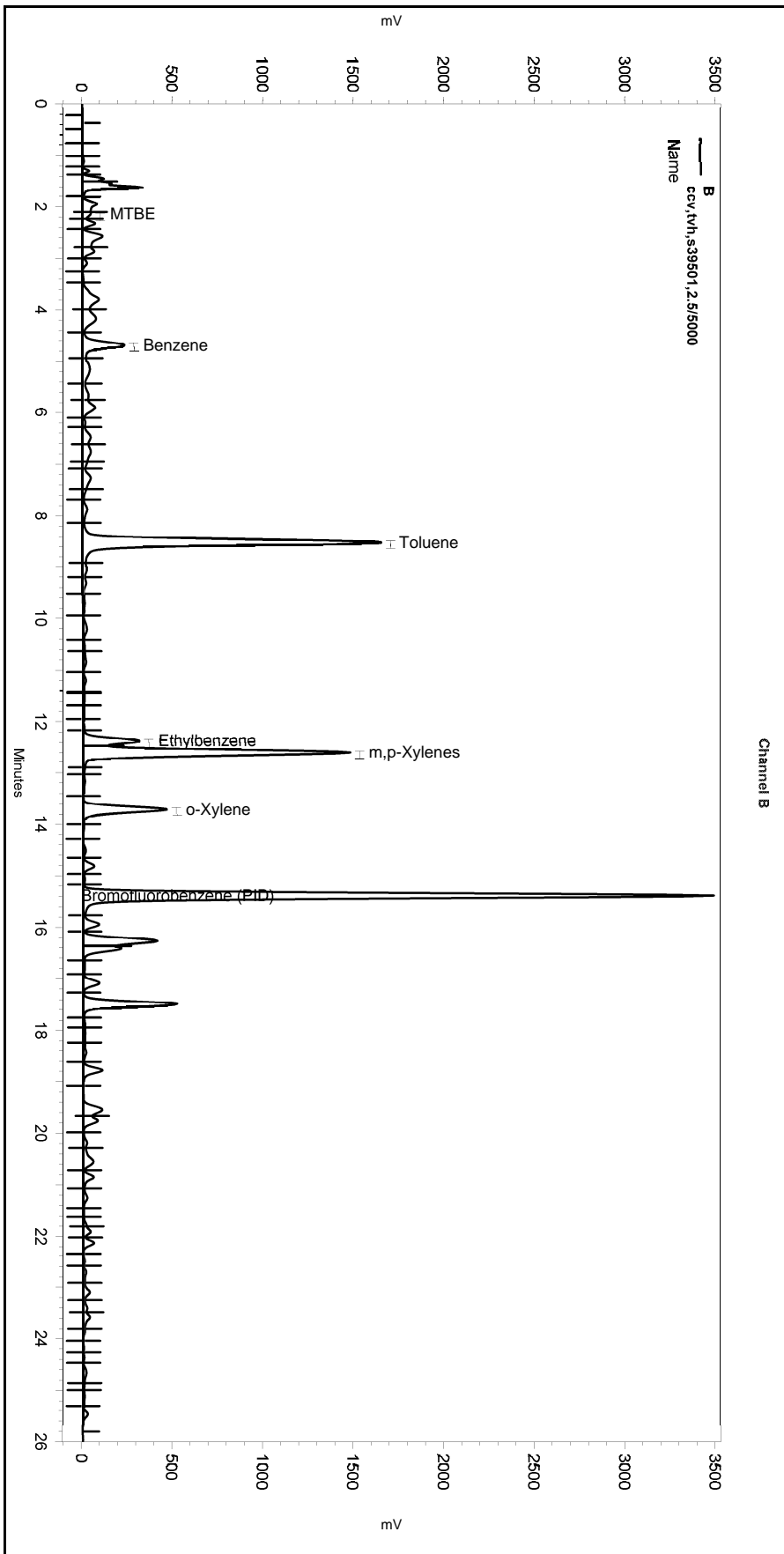
=====
 Manual Integration Fixes
 =====

Data File:
 \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	0.97	14.296	0
Yes	Manual Baseline	14.28	25.813	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE053B.MET

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:32:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

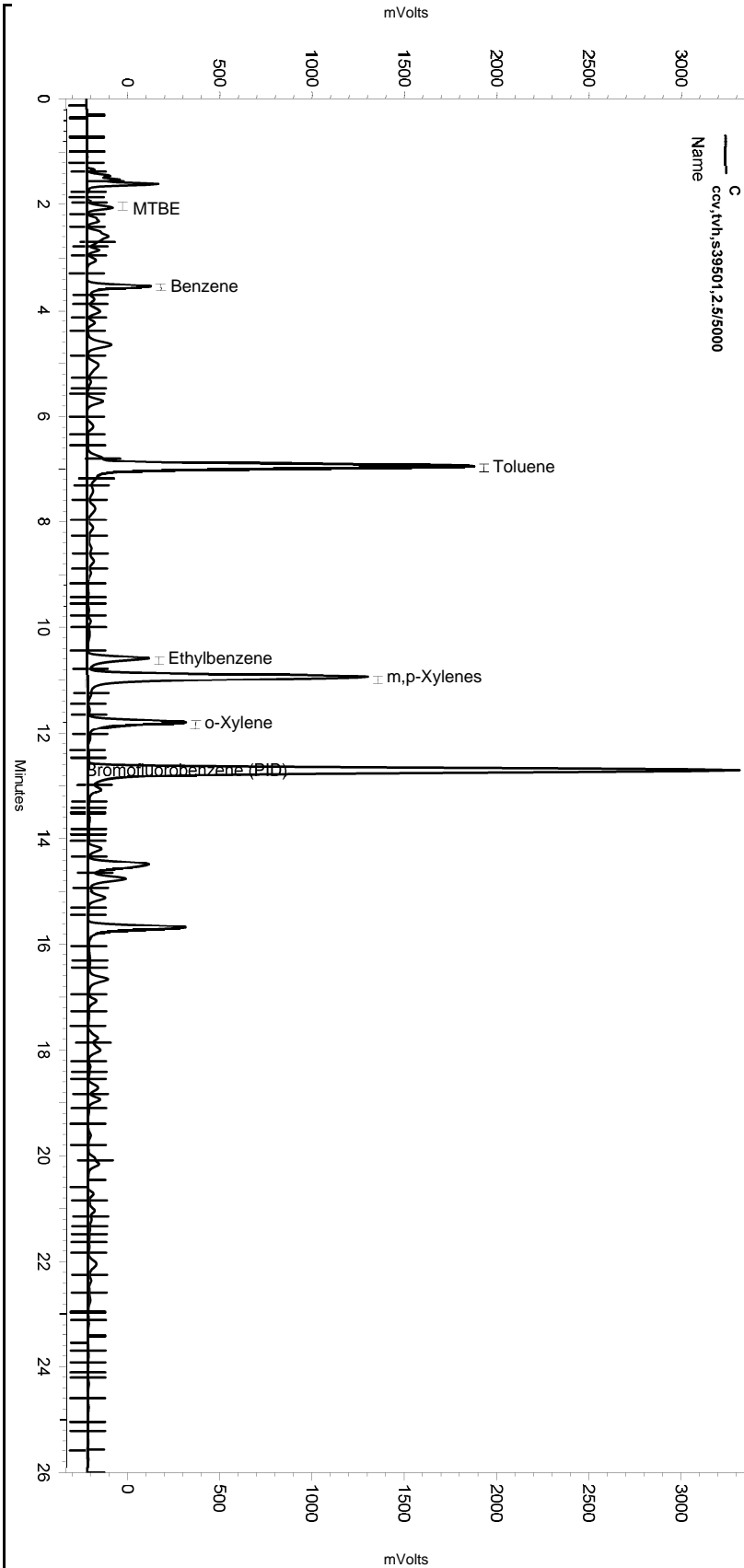
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002
 Instrument: GC07 (Offline) Vial: N/A Operator: tvh analyst (lims2k3\tvh)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTX053B.MET

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:32:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel C

 << General Method Parameters >> -----

No items selected for this section

 << C >> -----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
Sample Name: ccv,tvh,s39501,2.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-002
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
Run Date: 4/18/2019 9:54:03 AM
Analysis Date: 4/18/2019 10:22:47 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.383	15.433	1862662	891.051
GAS:6-10			13868796	6422.052
GAS:6-12			15942137	5956.999
GAS:7-12			12483847	5888.308
JP4:7-12			12483847	3329.736
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.200	315568	18.592
Benzene	4.683	4.717	2352787	49.764
Toluene	8.517	8.567	14619151	335.997
Ethylbenzene	12.367	12.417	2646349	68.419
m,p-Xylenes	12.600	12.650	12061280	275.491
o-Xylene	13.717	13.750	3991430	101.177
Bromofluorobenzene (PID)	15.383	15.433	25126845	655.978

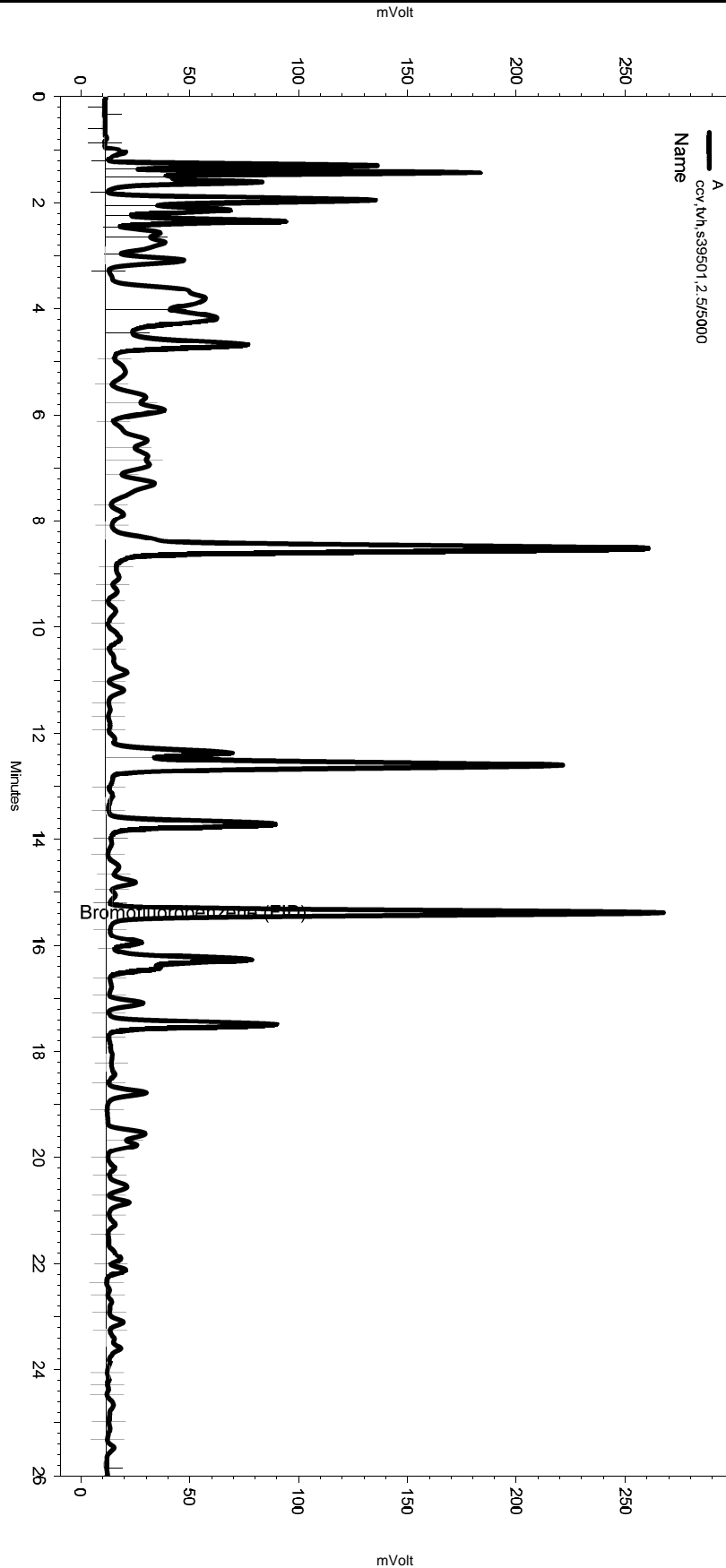
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.067	2.033	798001	55.576
Benzene	3.533	3.550	2113610	52.850
Toluene	6.950	6.983	14447058	386.289
Ethylbenzene	10.583	10.633	2419343	78.909
m,p-Xylenes	10.933	10.999	11833717	304.676
o-Xylene	11.799	11.849	3828120	100.066
Bromofluorobenzene (PID)	12.699	12.749	24073403	705.293

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-002
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:22:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

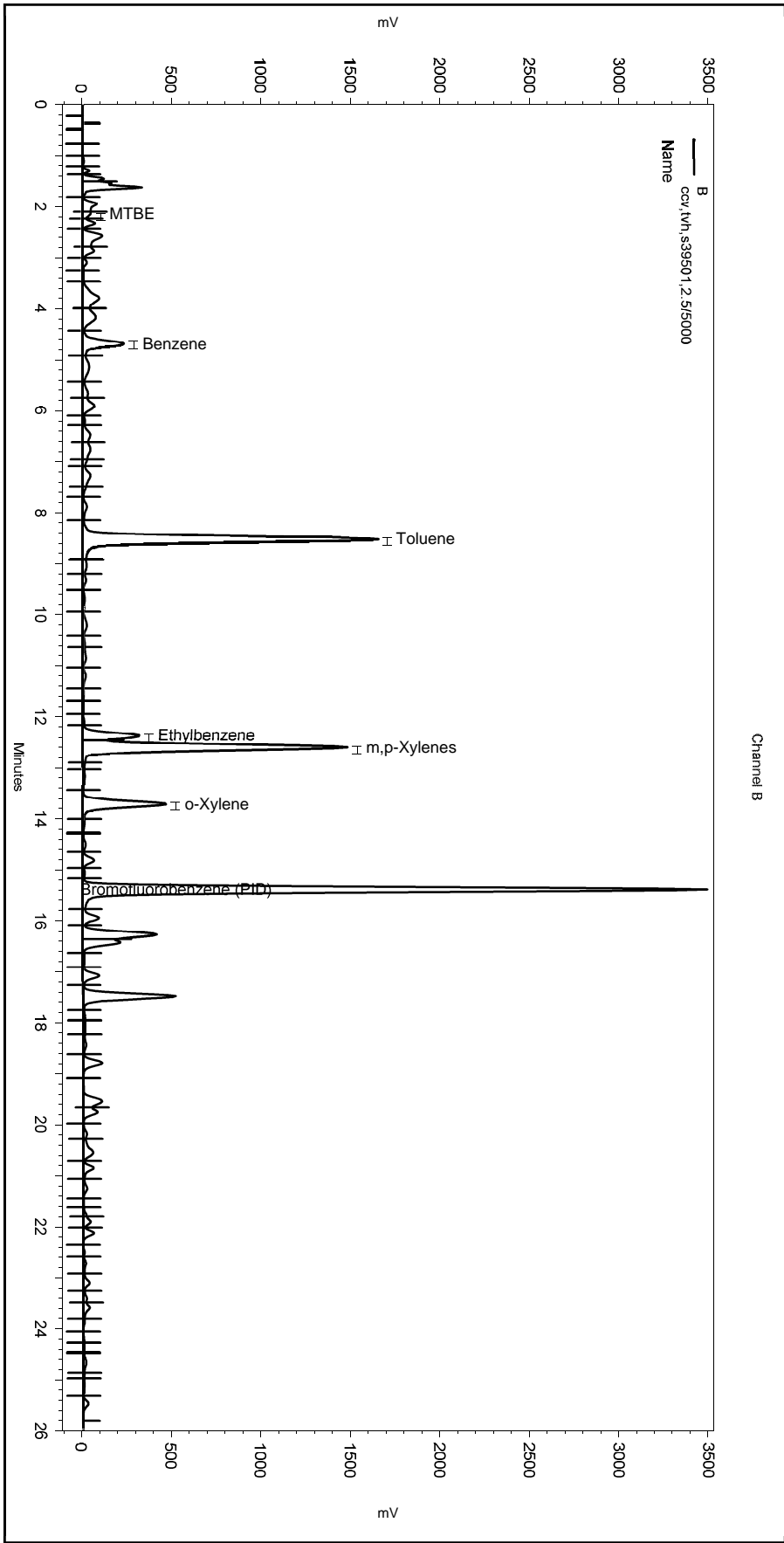
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-002_2D42.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-002
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:22:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

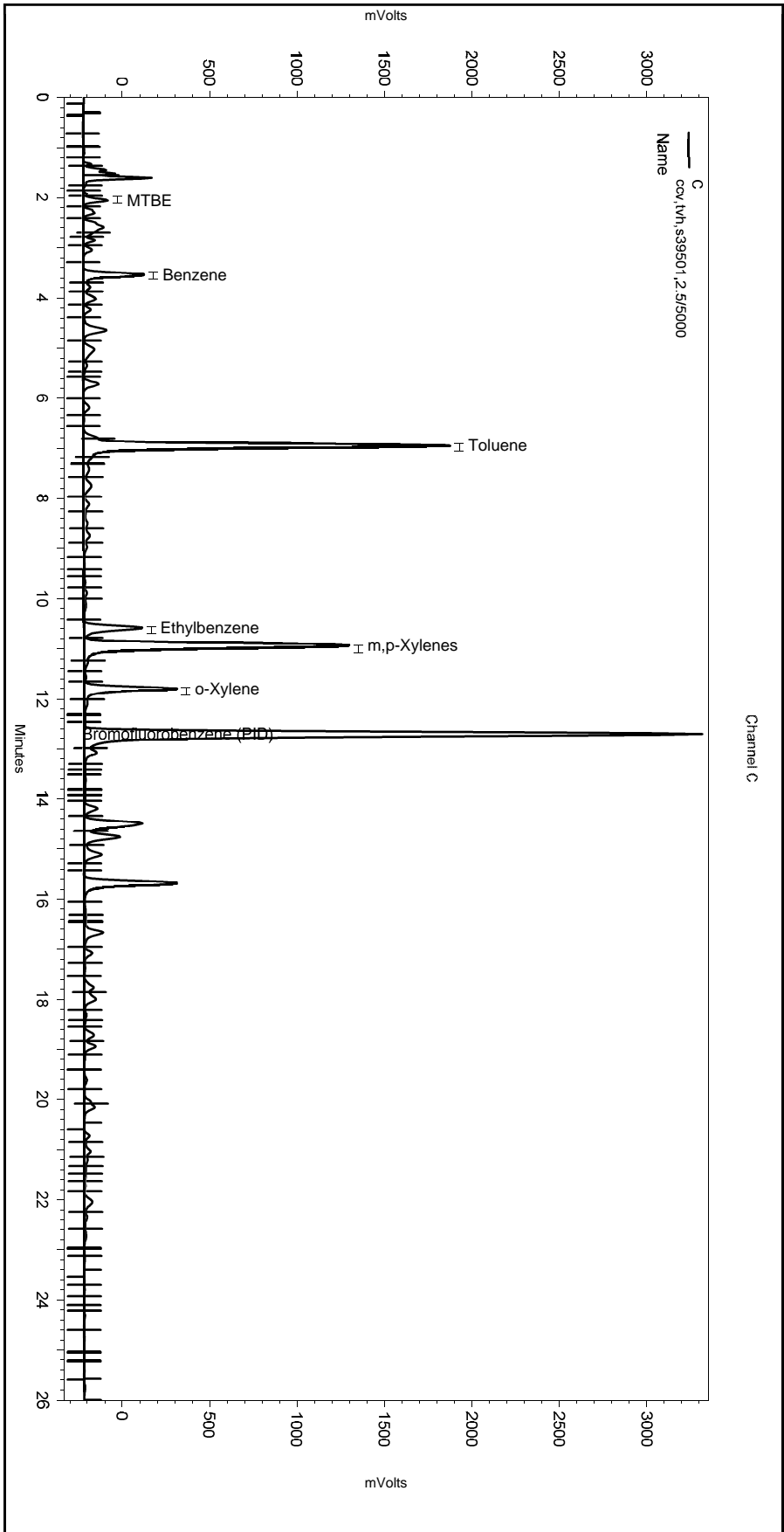
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-002_2D42.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-002
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 9:54:03 AM
 Analysis Date: 4/18/2019 10:22:47 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-002_2D42.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

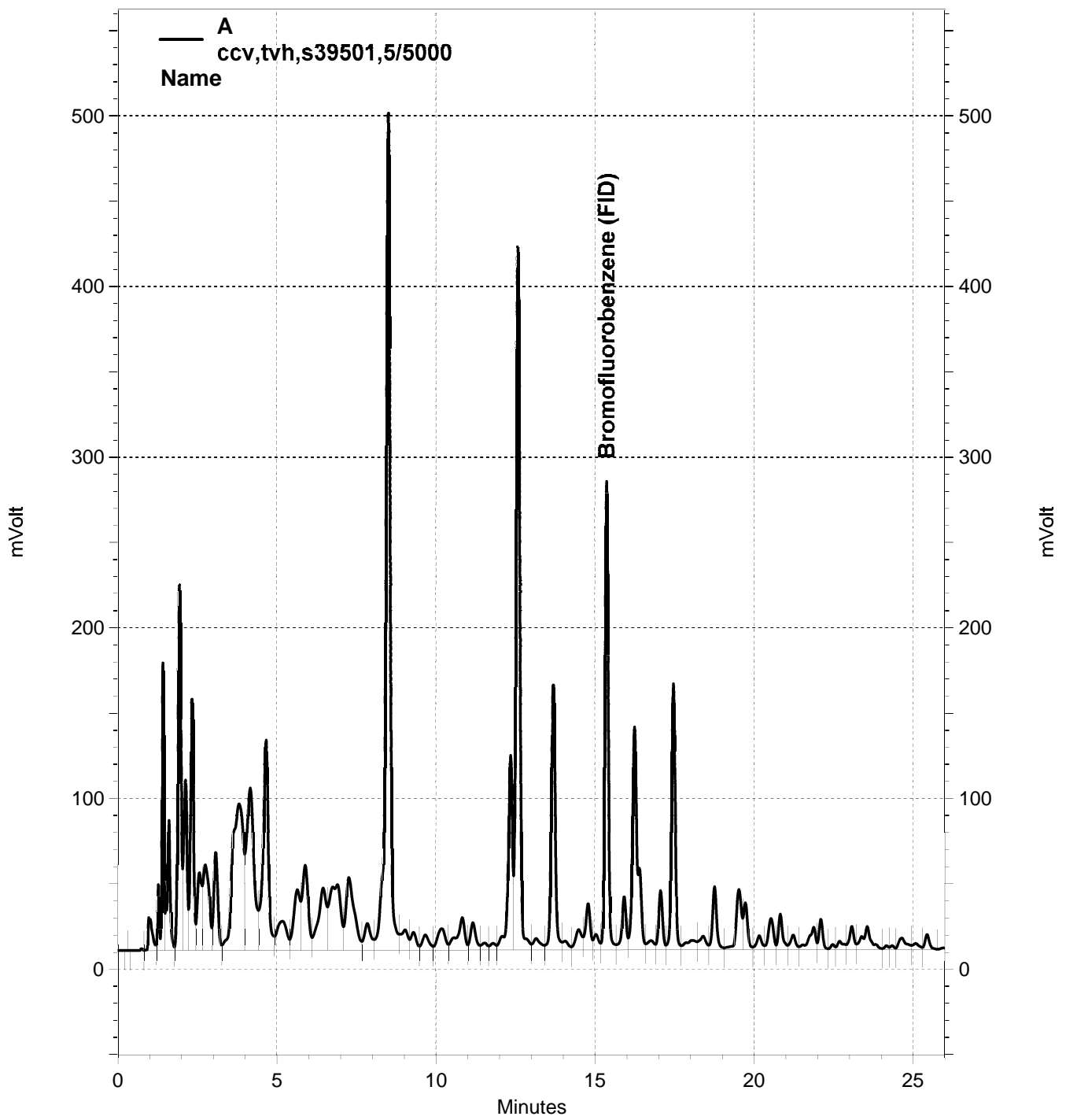
Channel C

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 329156075014 File : 108_014 Time : 18-APR-2019 18:02
 Cal : 329076864001 Caldate : 23-FEB-2019
 Standards: S39501 (1000X), S39864 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2120.1	2399.7	10000	11320	ng	13	15	
Bromofluorobenzene (FID)	A	2090.4	2218.3	900.0	955.1	ng	6	15	

Analyst: ALE Date: 04/19/19 Reviewer: TKM Date: 04/19/19



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-014, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
 Sample Name: ccv,tvh,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-014
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 6:02:28 PM
 Analysis Date: 4/18/2019 6:31:11 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.367	15.433	1996464	955.058
GAS:6-10			26217072	12140.018
GAS:6-12			30242952	11300.698
GAS:7-12			23996760	11318.653
JP4:7-12			23996760	6400.502
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE		2.200		0.000 BDL
Benzene	4.683	4.717	4658162	98.525
Toluene	8.500	8.567	29177335	670.593
Ethylbenzene	12.350	12.417	5397293	139.542
m,p-Xylenes	12.583	12.650	23886329	545.587
o-Xylene	13.683	13.750	8203402	207.944
Bromofluorobenzene (PID)	15.367	15.433	27025397	705.543

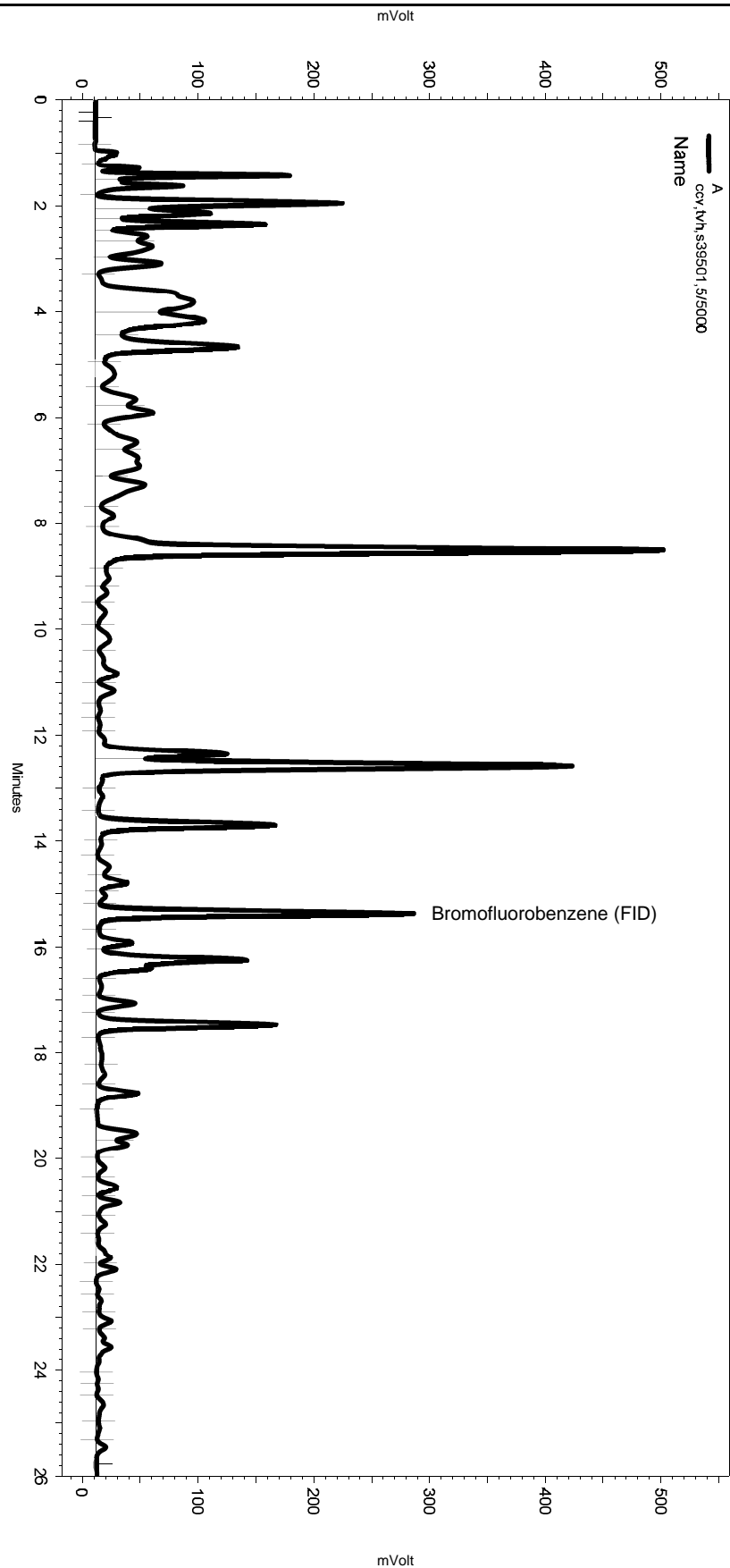
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.083	2.033	1346261	93.759
Benzene	3.550	3.550	4065910	101.667
Toluene	6.950	6.983	27922353	746.595
Ethylbenzene	10.599	10.633	4787192	156.138
m,p-Xylenes	10.933	10.999	22703593	584.536
o-Xylene	11.799	11.849	7563356	197.705
Bromofluorobenzene (PID)	12.699	12.749	25194653	738.143

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-014
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 6:02:28 PM
 Analysis Date: 4/18/2019 6:31:11 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

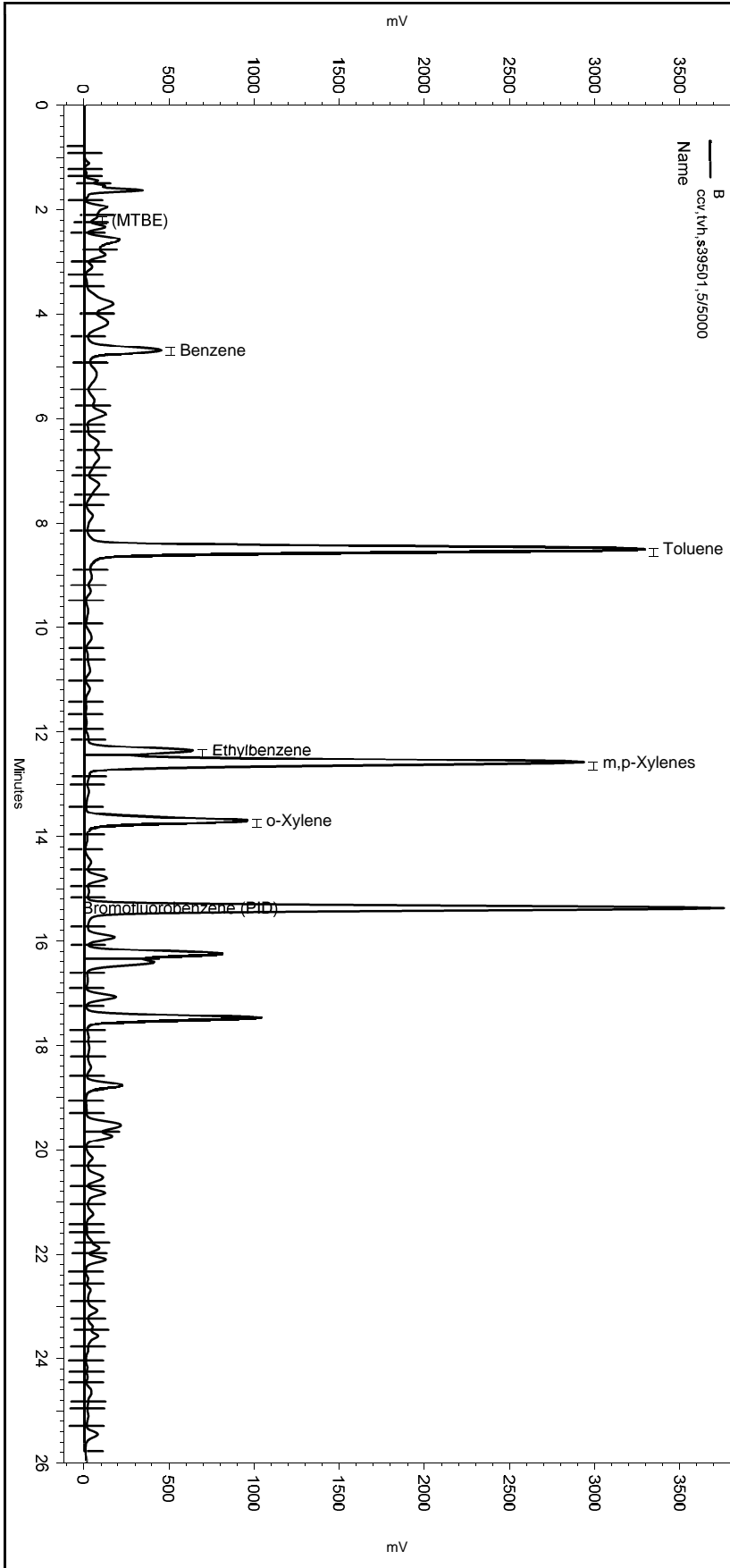
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-014_2D4F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-014
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 6:02:28 PM
 Analysis Date: 4/18/2019 6:31:11 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

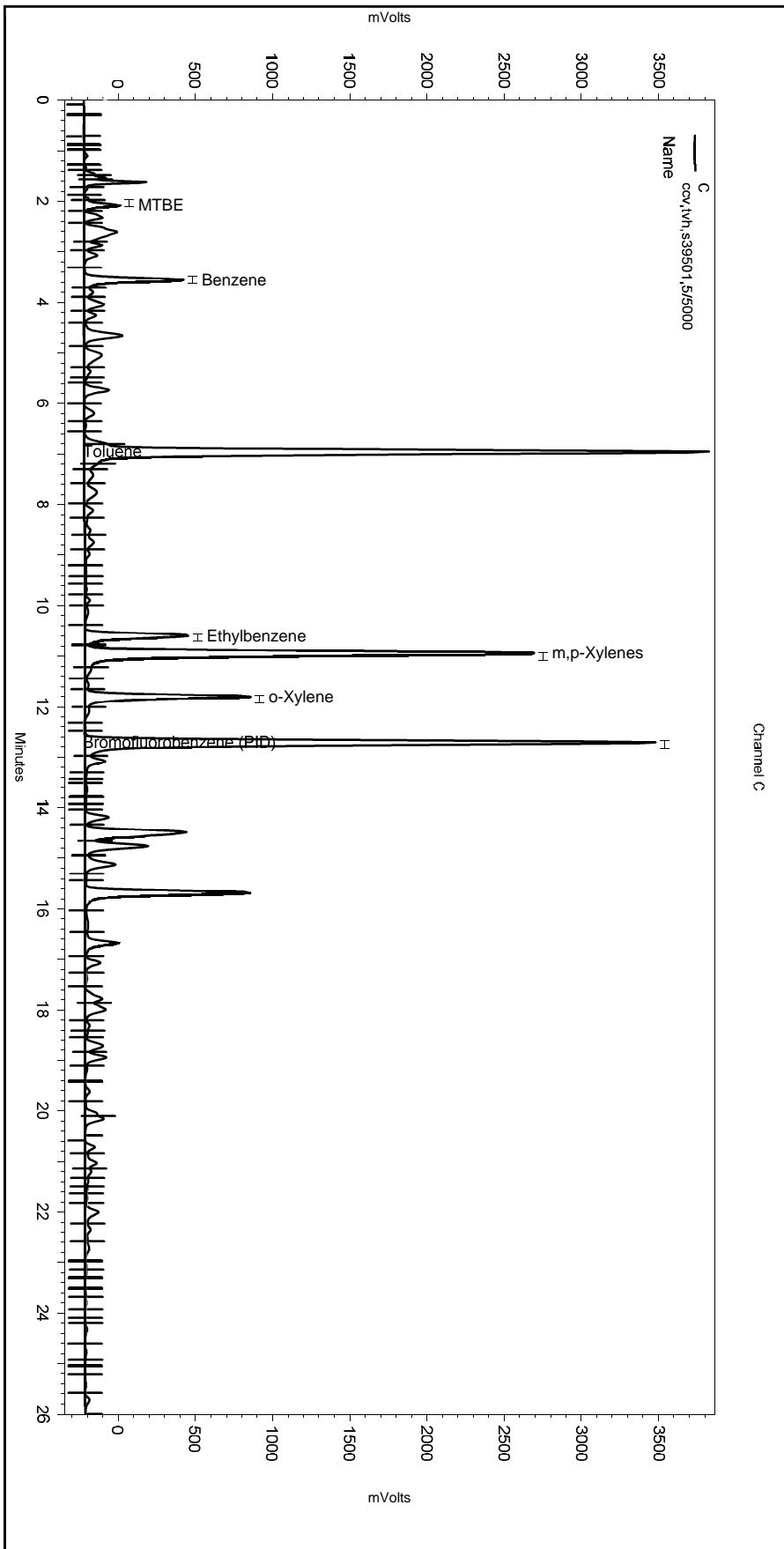
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-014_2D4F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-014
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 6:02:28 PM
 Analysis Date: 4/18/2019 6:31:11 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events
 =====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes
 =====

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-014_2D4F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

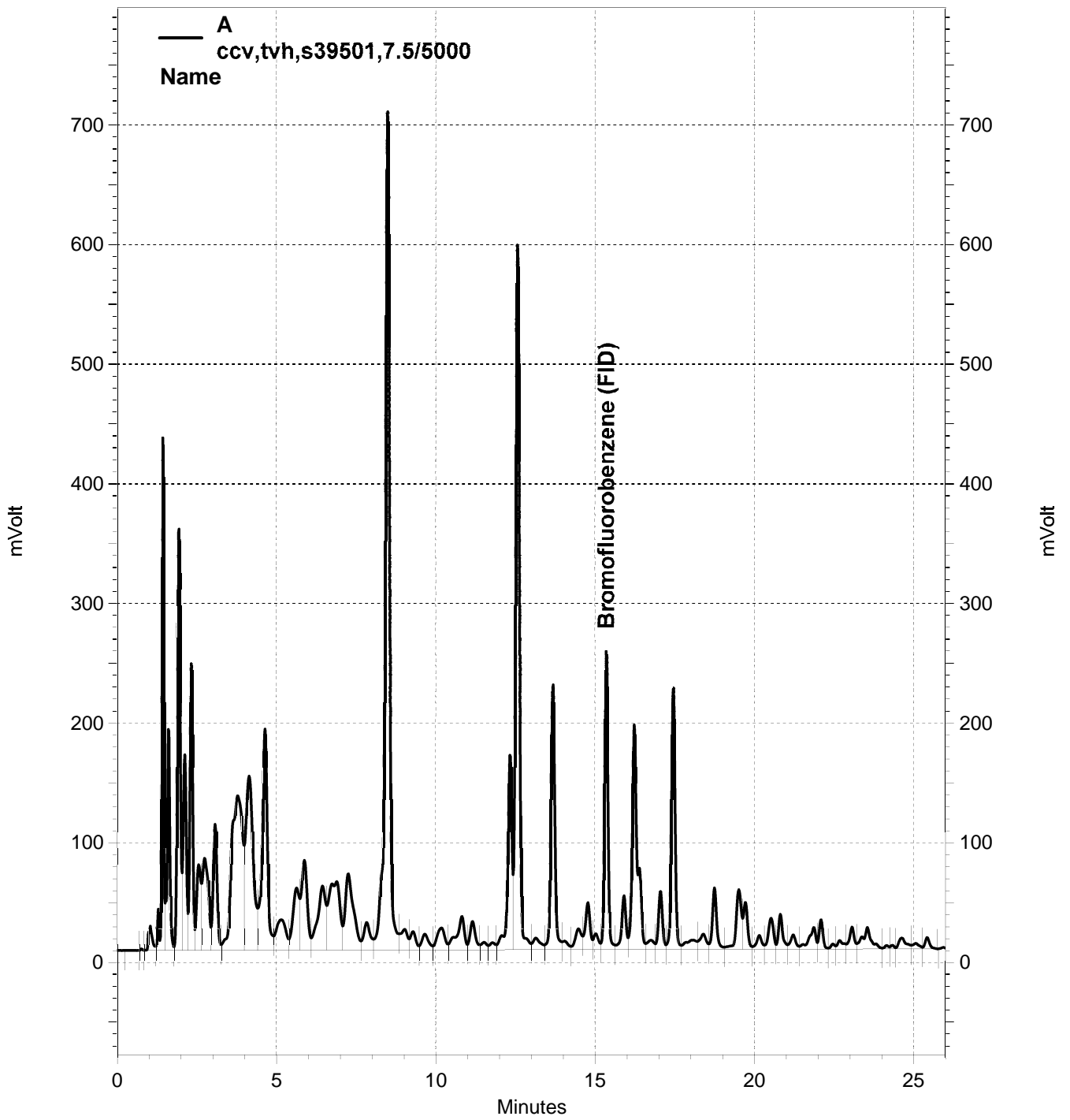
Channel C

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCVOA Water
EPA 8015B

Inst : GC07 Run Name : TVH IDF : 1.0
 Seqnum : 329156075022 File : 108_022 Time : 18-APR-2019 23:09
 Cal : 329076864001 Caldate : 23-FEB-2019
 Standards: S39501 (666.7X), S39864 (5000X)

Analyte	Ch	Avg		Spiked	Quant	Units	%D	Max %D	Flags
		RF/CF	RF/CF						
Gasoline C7-C12	A	2120.1	2321.7	15000	16430	ng	10	15	
Bromofluorobenzene (FID)	A	2090.4	2057.6	900.0	885.9	ng	-2	15	

Analyst: ALE Date: 04/19/19 Reviewer: TKM Date: 04/19/19



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-022, A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\2019\108.seq
Sample Name: ccv,tvh,s39501,7.5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\2019\108-022
Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
Run Date: 4/18/2019 11:09:30 PM
Analysis Date: 4/18/2019 11:38:14 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}

GC07

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ng)
Bromofluorobenzene (FID)	15.350	15.433	1851854	885.880
GAS:6-10			38640752	17892.897
GAS:6-12			44416816	16596.956
GAS:7-12			34825440	16426.262
JP4:7-12			34825440	9288.766
?			0	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.133	2.200	982634	57.892
Benzene	4.667	4.717	6720366	142.143
Toluene		8.567		0.000 BDL
Ethylbenzene	12.350	12.417	7500755	193.925
m,p-Xylenes		12.650		0.000 BDL
o-Xylene	13.683	13.750	11470874	290.769
Bromofluorobenzene (PID)		15.433		0.000 BDL

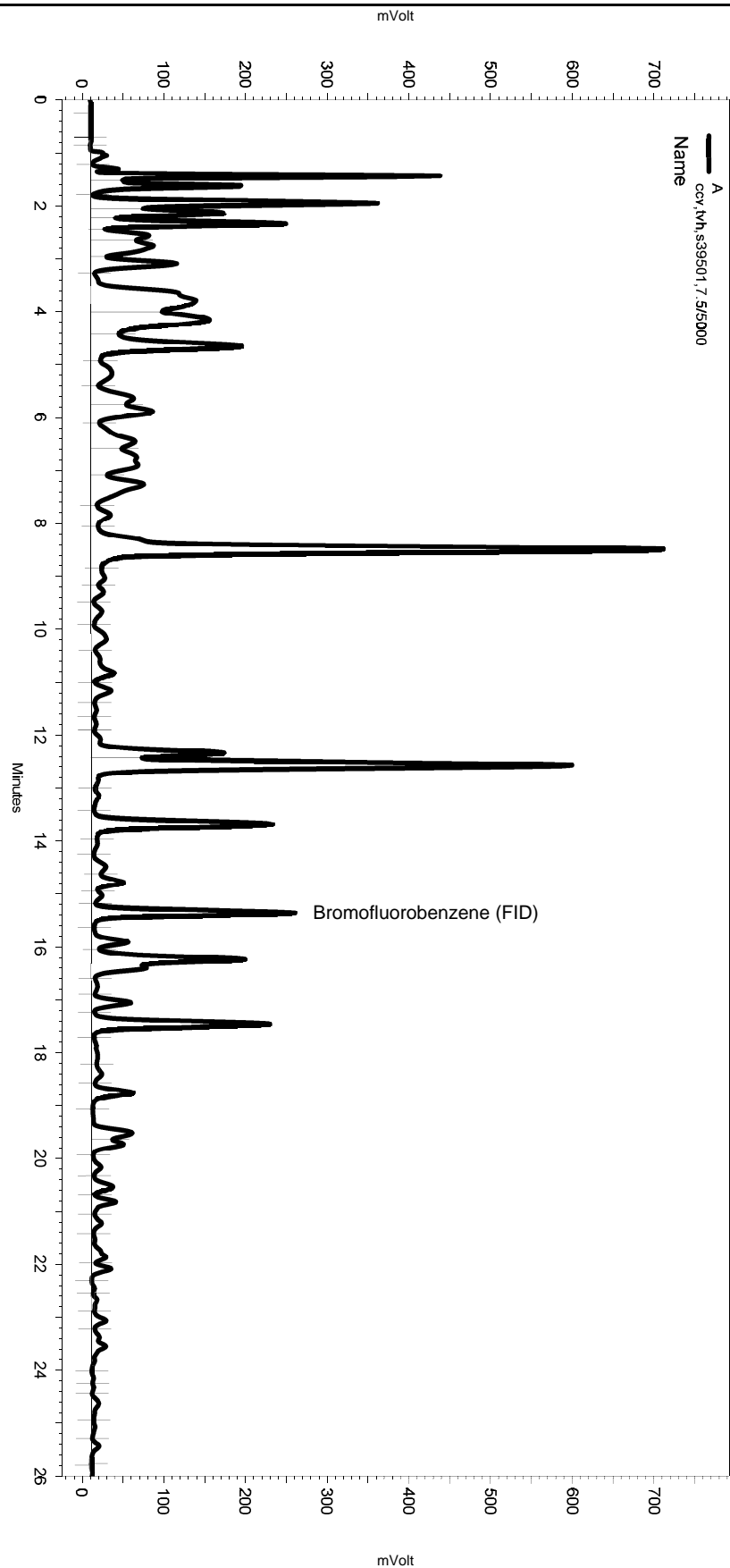
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ng)
MTBE	2.067	2.033	2265896	157.806
Benzene	3.516	3.550	6055435	151.415
Toluene	6.916	6.983	39575629	1058.184
Ethylbenzene	10.566	10.633	6922429	225.780
m,p-Xylenes		10.999		0.000 BDL
o-Xylene		11.849		0.000 BDL
Bromofluorobenzene (PID)		12.749		0.000 BDL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,7.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-022
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 11:09:30 PM
 Analysis Date: 4/18/2019 11:38:14 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
No	Integration Off	0.447	25.753	0

Manual Integration Fixes

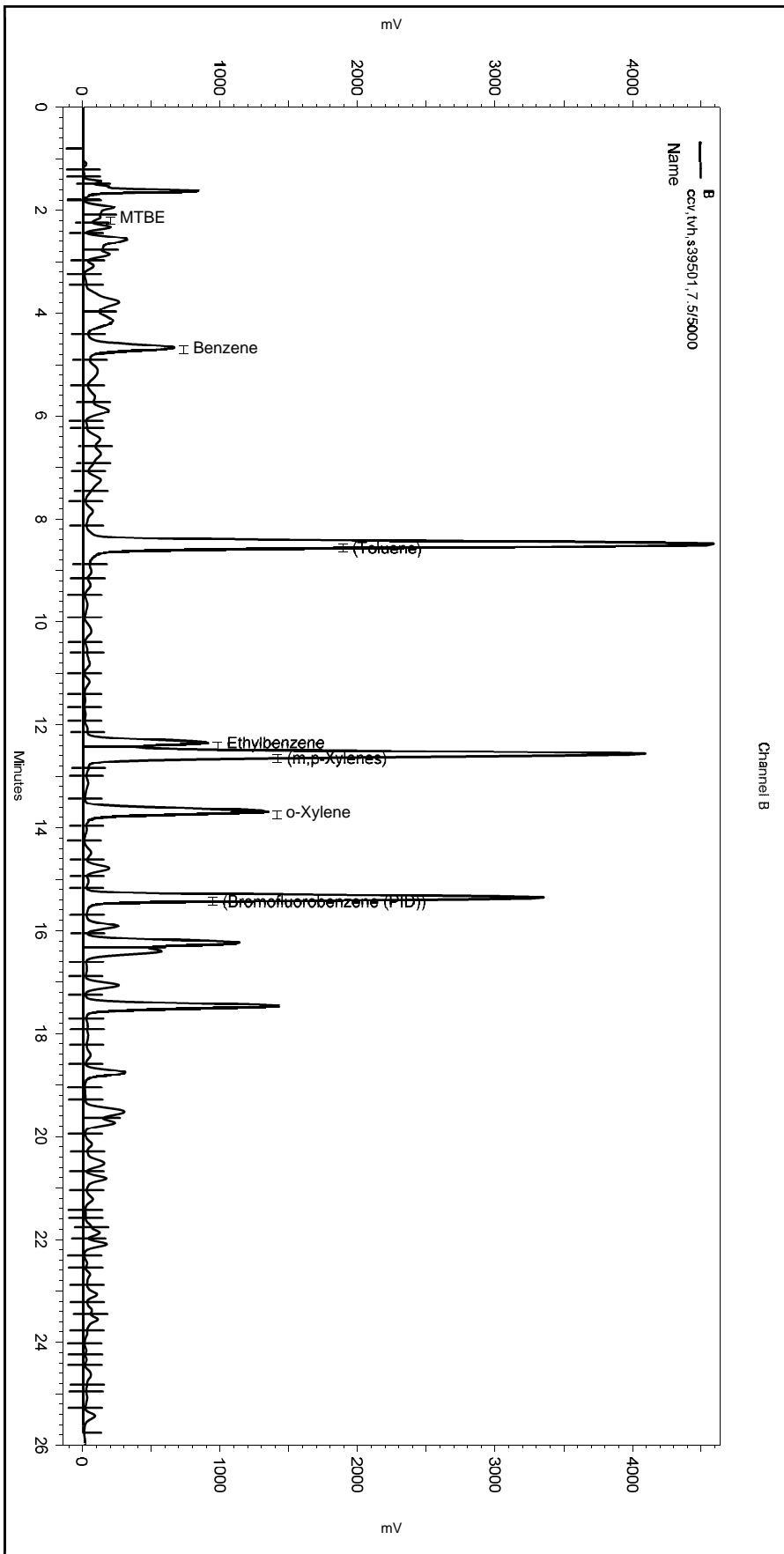
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-022_2D57.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,7.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-022
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 11:09:30 PM
 Analysis Date: 4/18/2019 11:38:14 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< B >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.017	0

=====
 Manual Integration Fixes

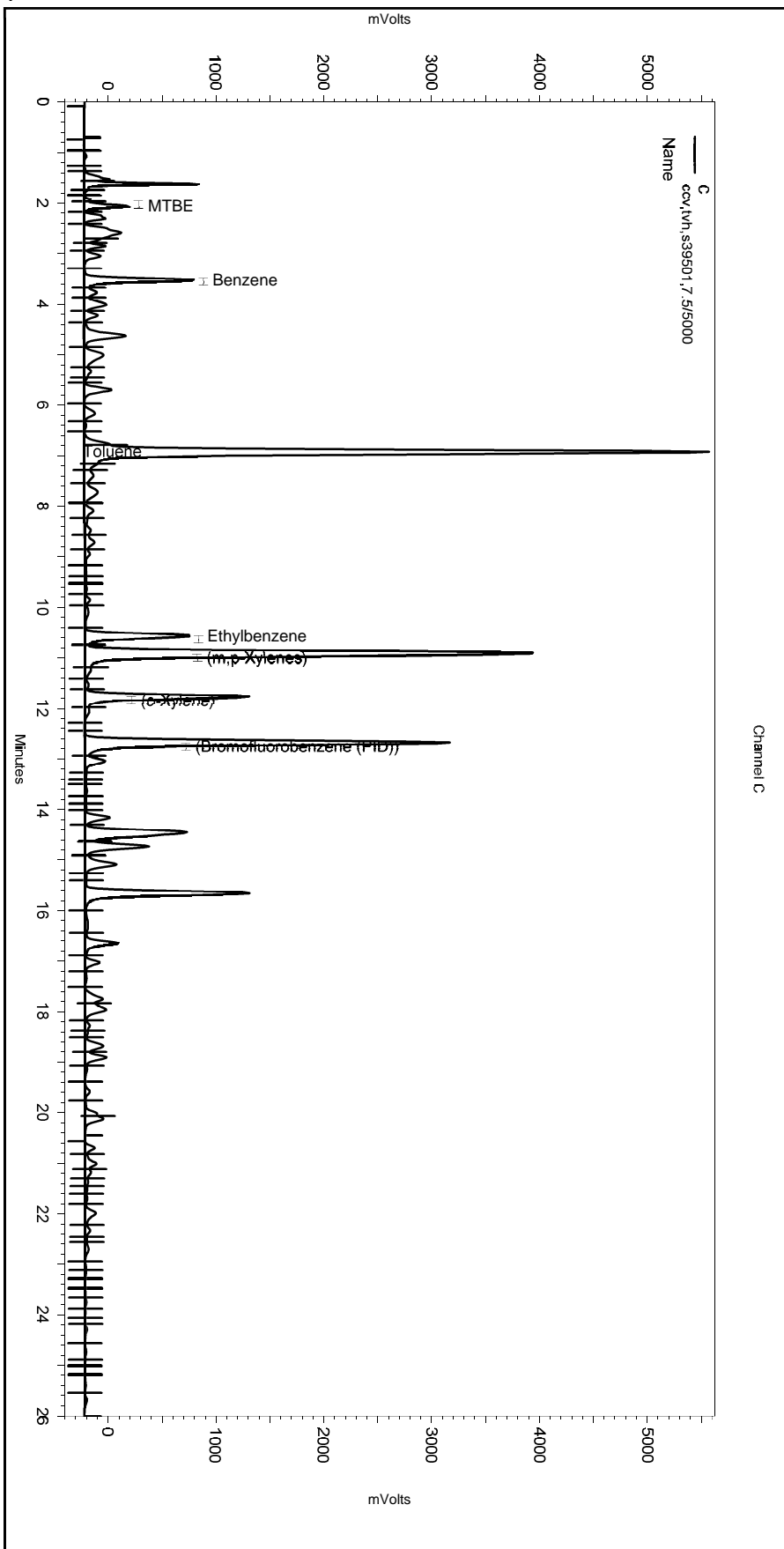
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10127\108-022_2D57.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel B

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence2019\108.seq
 Sample Name: ccv,tvh,s39501,7.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data2019\108-022
 Instrument: GC07 Vial: N/A Operator: lms2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\vhbtxe053b.met

Software Version 3.1.7
 Run Date: 4/18/2019 11:09:30 PM
 Analysis Date: 4/18/2019 11:38:14 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >-----

No items selected for this section

---< C >-----

No items selected for this section

=====
 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50
Yes	Shoulder Sensitivity	0	26	100
Yes	Horizontal Baseline	0	26.015	0

=====
 Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
 Data\ChromatographySystem\Recovery
 Data\Instrument.10127\108-022_2D57.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel C



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 309066

ANALYTICAL REPORT

TPH-Extractables by GC

TRC Solutions Inc.
505 Sansome St
San Francisco, CA 94111

Project : 285830.02A.01
Location : Riley Soil Investigation
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	309066-001
BR11-1GW02	309066-002
BR11-1GW03	309066-003
DUP04182019-01	309066-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 05/13/2019

Haley Campbell
Project Manager
haley.campbell@enthalpy.com
(510) 204-2223 Ext 13105

CA ELAP# 2896, NELAP# 4044-001

**CASE NARRATIVE
TPH-EXTRACTABLES BY GC (EPA 8015B)**

Laboratory number: **309066**
Client: **TRC Solutions Inc.**
Project: **285830.02A.01**
Location: **Riley Soil Investigation**
Request Date: **04/18/19**
Samples Received: **04/18/19**

This data package contains sample and QC results for four water samples, requested for the above referenced project on 04/18/19. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 309006 Client: TRC
 Date Received: 4/18/19 Project: _____

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun #. A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 4/18/19 By (print) RV (sign) RV
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important : Notify PM if temperature exceeds 6°C or arrive frozen.**
 Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used : Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 3.8, #2: 2.1, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	/		
Were Method 5035 sampling containers present?		/	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm absent in VOA samples?			/
Was the client contacted concerning this sample delivery?			/
If YES, who was called? _____ By _____ Date: _____			/

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			/
Did you check preservatives for all bottles for each sample?			/
Did you document your preservative check?			/
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			/
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:
 Explanations/Comments: 1/1 VOAS arrived w/ bubbles for Sample "005"

Date Logged in 4/18/19 By (print) RV (sign) RV
 Date Labeled 4-18-19 By (print) RV (sign) RV

Results & QC Summary

Total Extractable Hydrocarbons			
Lab #:	309066	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	04/18/19
Units:	ug/L	Received:	04/18/19
Diln Fac:	1.000	Prepared:	04/25/19
Batch#:	269931		

Field ID: BR11-1GW01 Analyzed: 04/29/19
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 309066-001

Analyte	Result	RL
Diesel C10-C24	460	48
Diesel C10-C24 (SGCU)	160 Y	48
Motor Oil C24-C36	ND	290
Motor Oil C24-C36 (SGCU)	ND	290
Bunker C C12-C40	930 Y	290
Bunker C C12-C40 (SGCU)	380 Y	290

Surrogate	%REC	Limits
o-Terphenyl	111	68-124
o-Terphenyl (SGCU)	87	68-124

Field ID: BR11-1GW02 Analyzed: 04/29/19
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 309066-002

Analyte	Result	RL
Diesel C10-C24	160 Y Z	46
Diesel C10-C24 (SGCU)	110 Y	46
Motor Oil C24-C36	300 Y Z	280
Motor Oil C24-C36 (SGCU)	ND	280
Bunker C C12-C40	720 Y Z	280
Bunker C C12-C40 (SGCU)	360 Y	280

Surrogate	%REC	Limits
o-Terphenyl	108	68-124
o-Terphenyl (SGCU)	105	68-124

Field ID: BR11-1GW03 Lab ID: 309066-003
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C10-C24	220 Y	46	05/01/19
Diesel C10-C24 (SGCU)	110 Y	46	04/29/19
Motor Oil C24-C36	ND	280	05/01/19
Motor Oil C24-C36 (SGCU)	ND	280	04/29/19
Bunker C C12-C40	310 Y	280	05/01/19
Bunker C C12-C40 (SGCU)	370 Y	280	04/29/19

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	118	68-124	05/01/19
o-Terphenyl (SGCU)	80	68-124	04/29/19

Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	309066	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	04/18/19
Units:	ug/L	Received:	04/18/19
Diln Fac:	1.000	Prepared:	04/25/19
Batch#:	269931		

Field ID: DUP04182019-01 Analyzed: 04/29/19
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 309066-004

Analyte	Result	RL
Diesel C10-C24	150 Y	48
Diesel C10-C24 (SGCU)	120 Y	48
Motor Oil C24-C36	ND	290
Motor Oil C24-C36 (SGCU)	ND	290
Bunker C C12-C40	570 Y	290
Bunker C C12-C40 (SGCU)	380 Y	290

Surrogate	%REC	Limits
o-Terphenyl	106	68-124
o-Terphenyl (SGCU)	80	68-124

Type: BLANK Cleanup Method: EPA 3630C
 Lab ID: QC973534

Analyte	Result	RL	Analyzed
Diesel C10-C24	ND	50	04/26/19
Diesel C10-C24 (SGCU)	ND	50	04/29/19
Motor Oil C24-C36	ND	300	04/26/19
Motor Oil C24-C36 (SGCU)	ND	300	04/29/19
Bunker C C12-C40	ND	300	04/26/19
Bunker C C12-C40 (SGCU)	ND	300	04/29/19

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	99	68-124	04/26/19
o-Terphenyl (SGCU)	124	68-124	04/29/19

Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	309066	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	EPA 3520C
Project#:	285830.02A.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	269931
Units:	ug/L	Prepared:	04/25/19
Diln Fac:	1.000		

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC973535

Analyte	Spiked	Result	%REC	Limits	Analyzed
Diesel C10-C24	2,500	2,583	103	64-120	04/26/19
Diesel C10-C24 (SGCU)	2,500	2,157	86	64-120	04/30/19

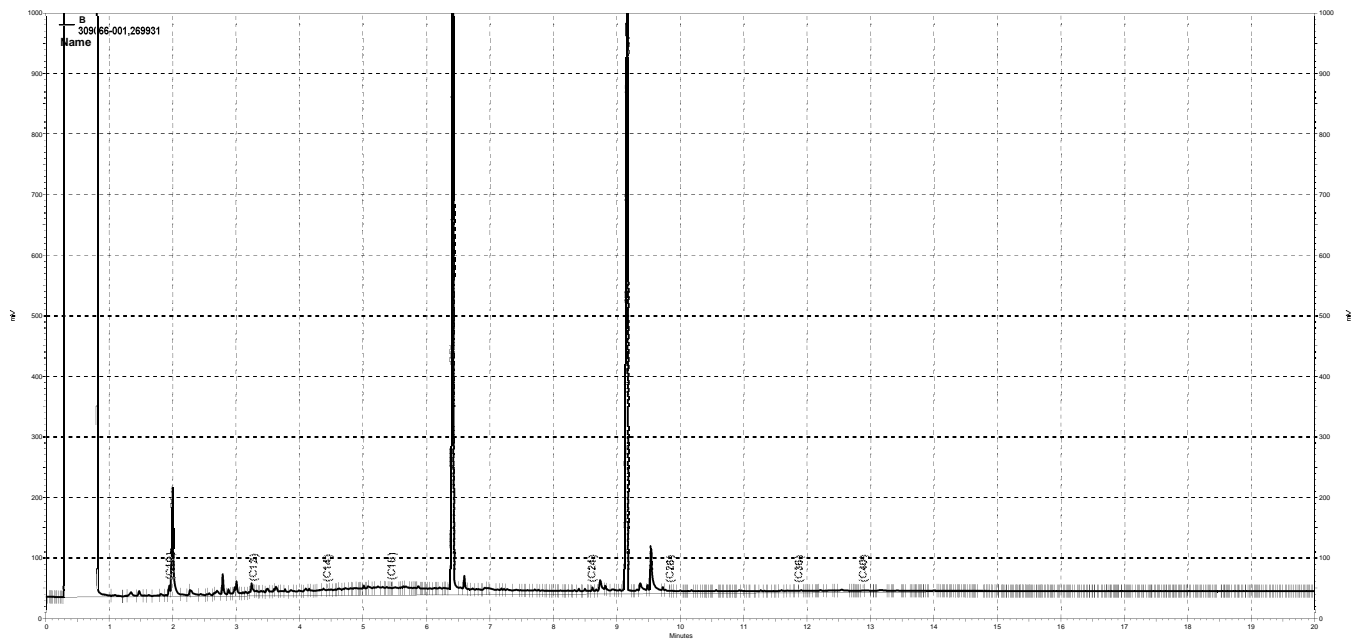
Surrogate	%REC	Limits	Analyzed
o-Terphenyl	99	68-124	04/26/19
o-Terphenyl (SGCU)	82	68-124	04/30/19

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC973536

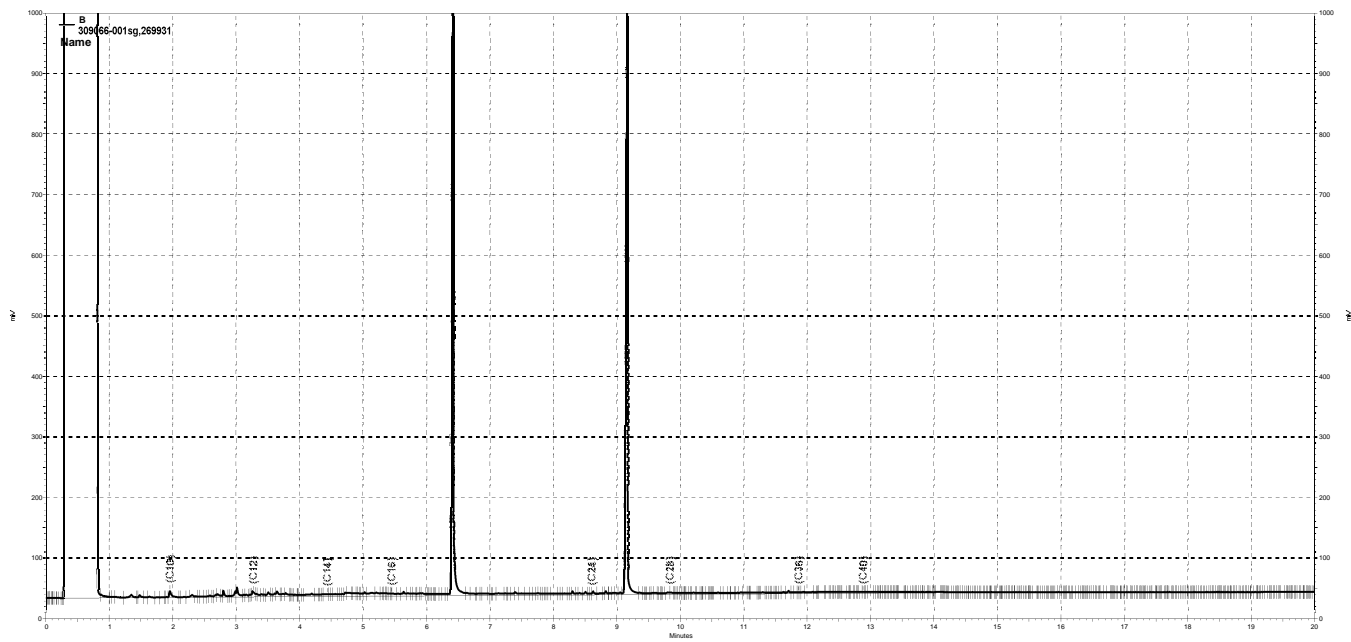
Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Diesel C10-C24	2,500	2,594	104	64-120	0	30	04/26/19
Diesel C10-C24 (SGCU)	2,500	1,825	73	64-120	17	30	04/30/19

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	103	68-124	04/26/19
o-Terphenyl (SGCU)	71	68-124	04/30/19

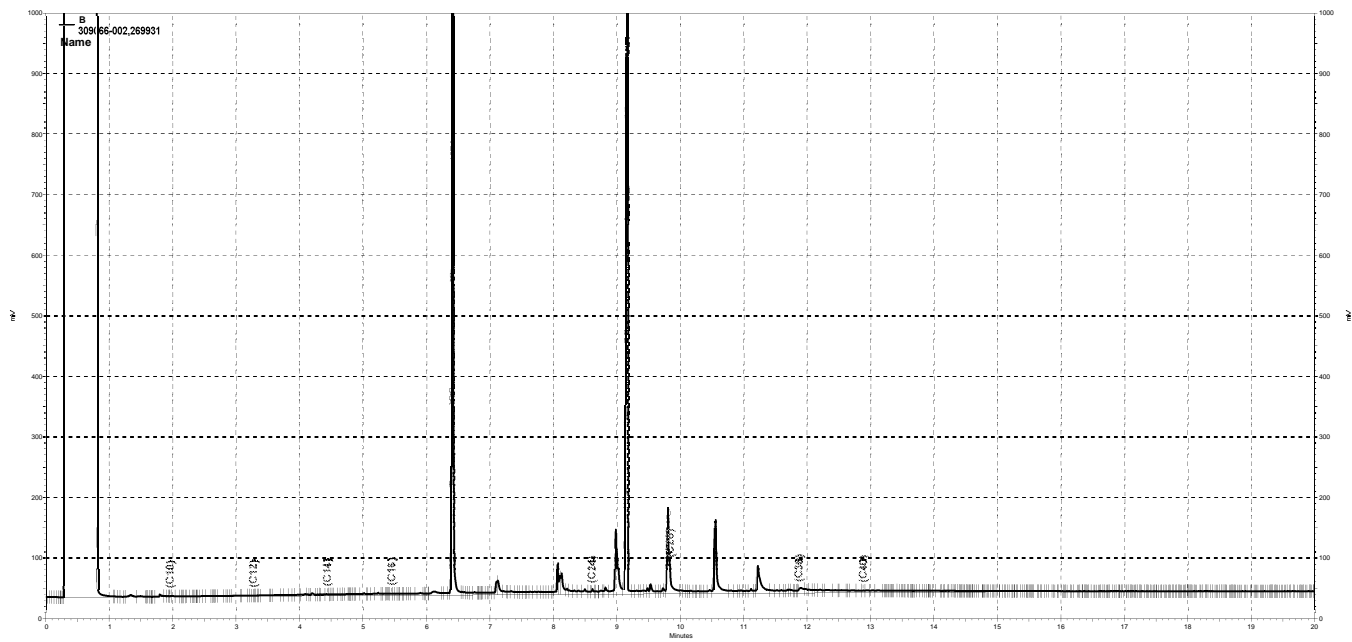
RPD= Relative Percent Difference
 SGCU= Silica gel cleanup



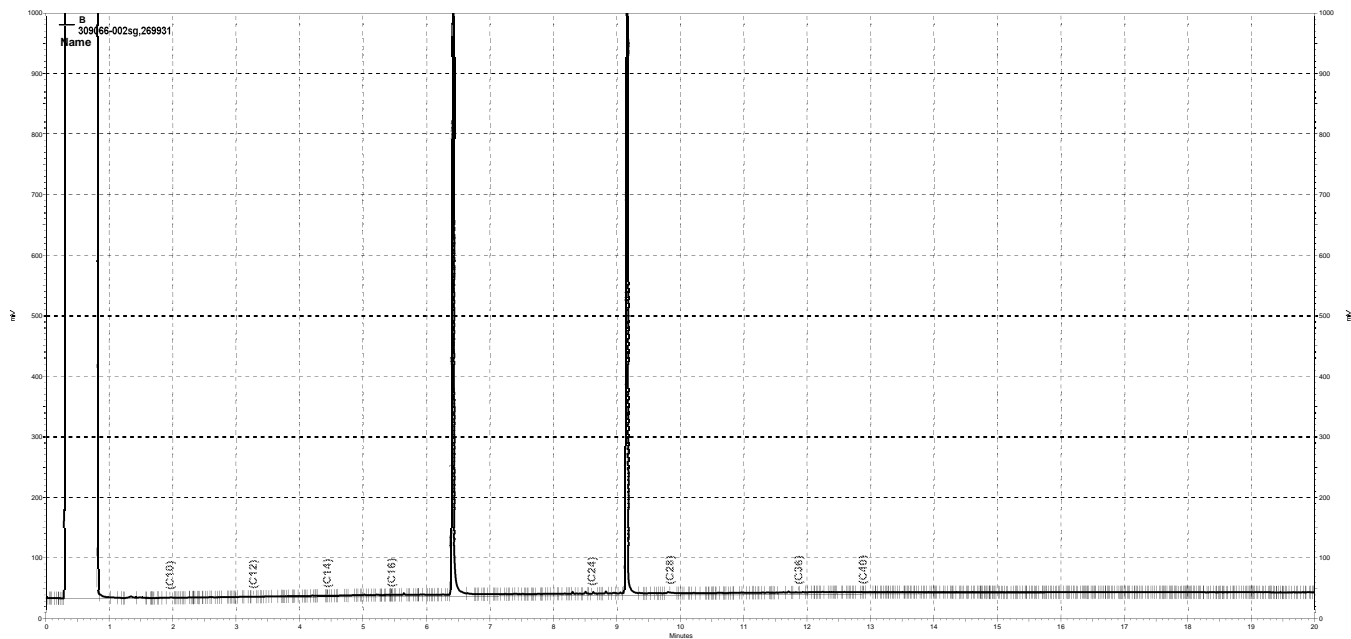
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b012, B



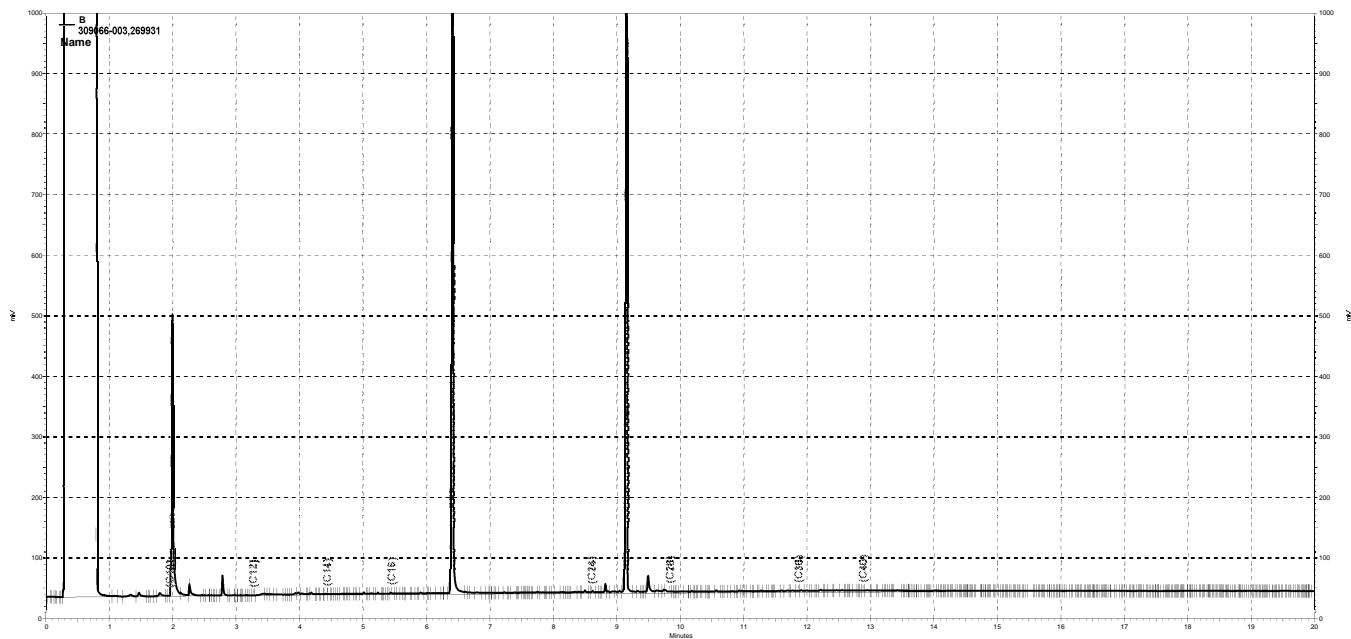
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030, B



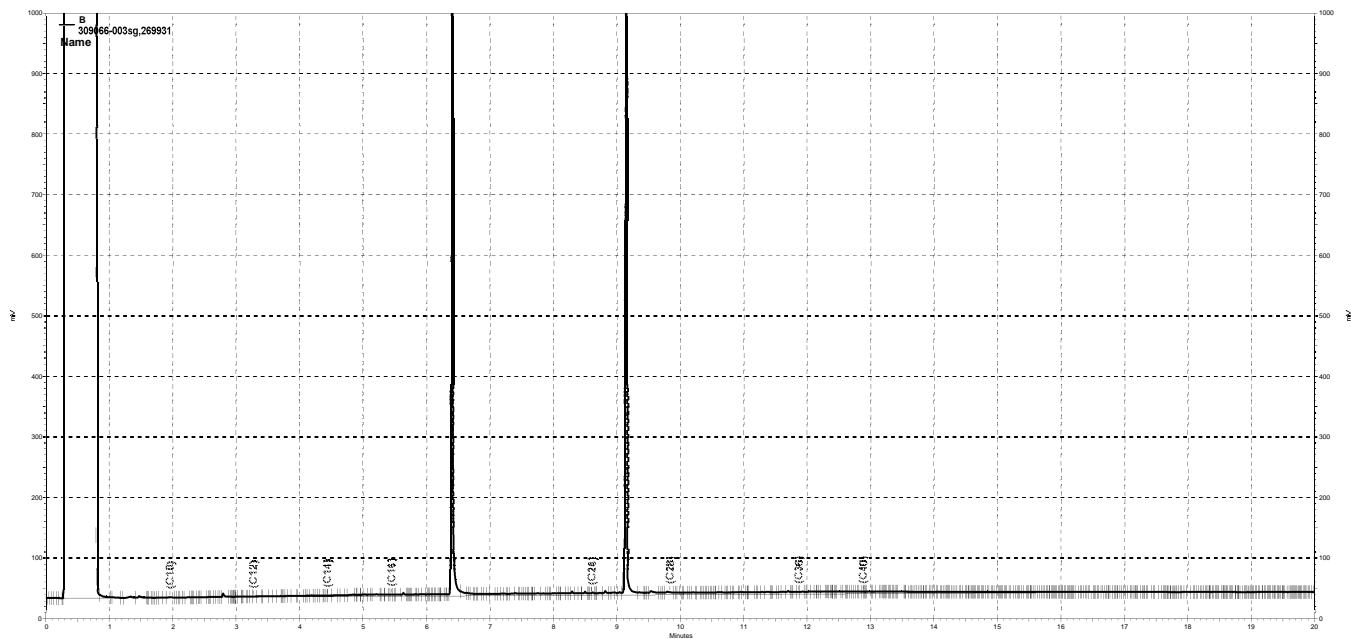
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013, B



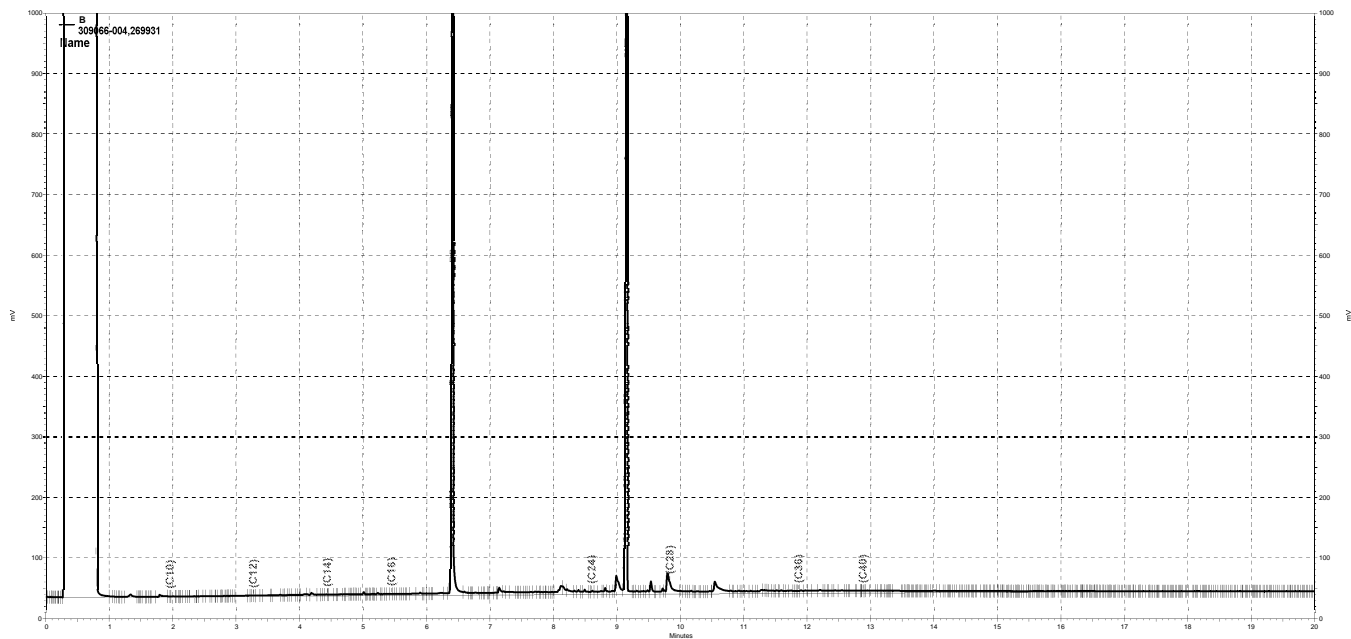
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031, B



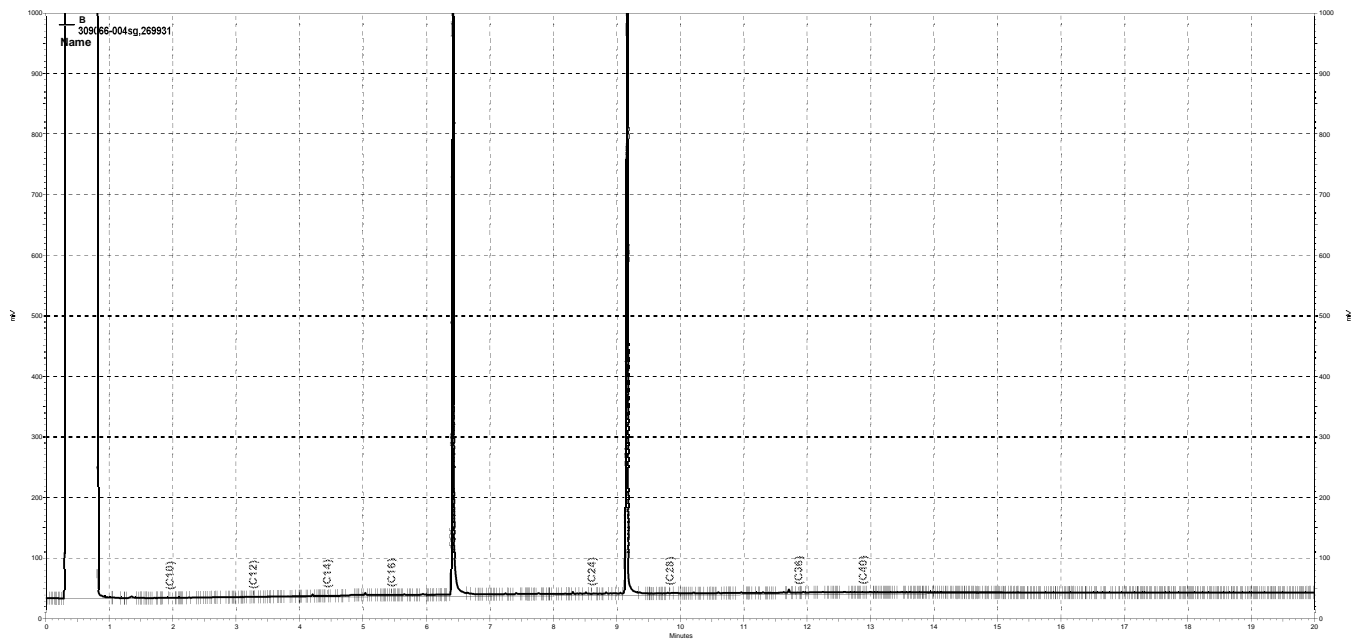
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b014, B



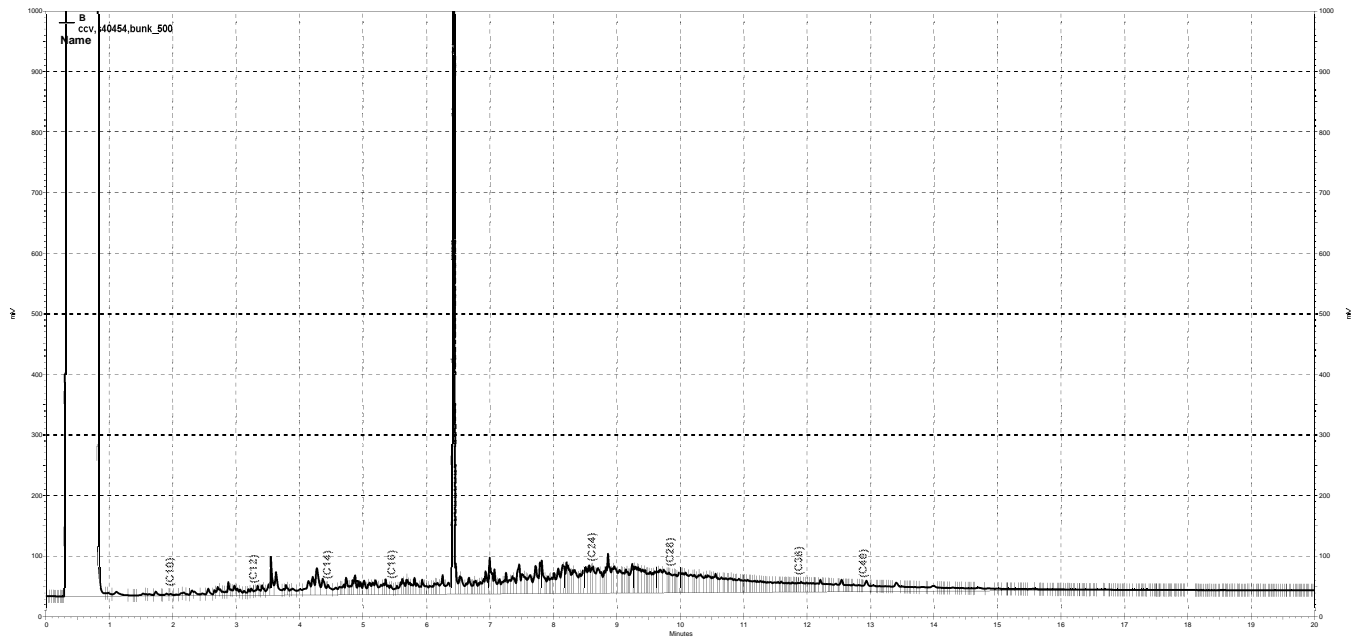
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032, B



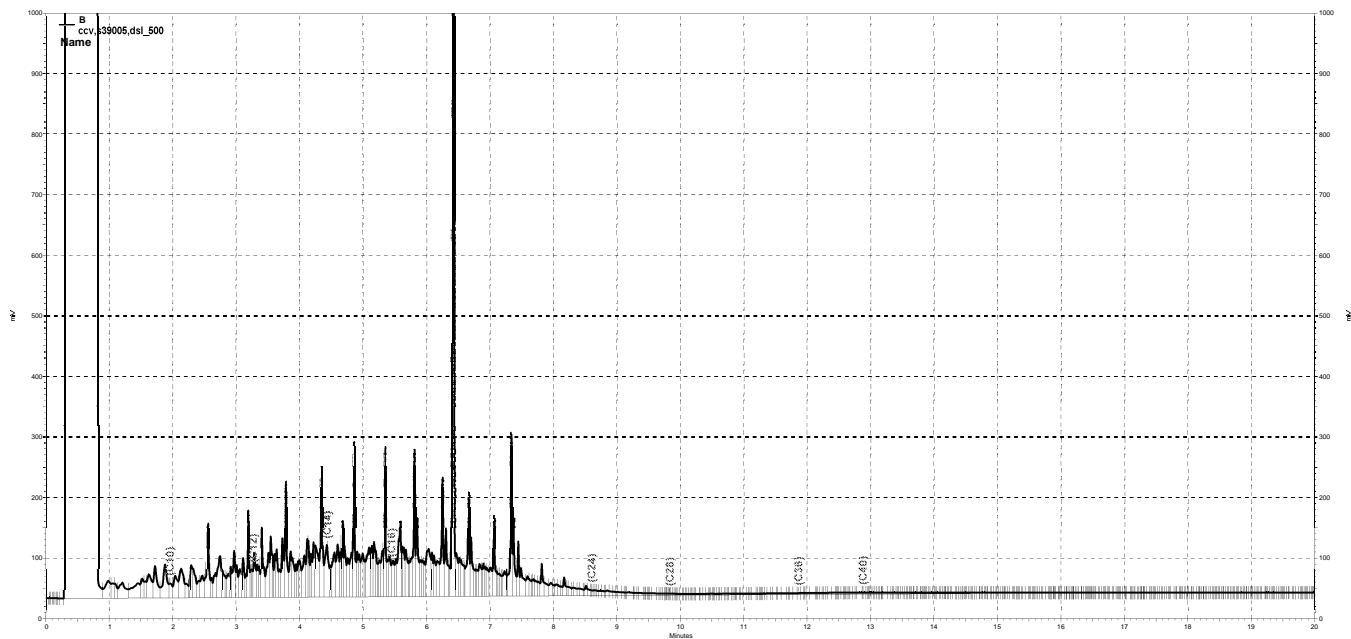
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b015, B



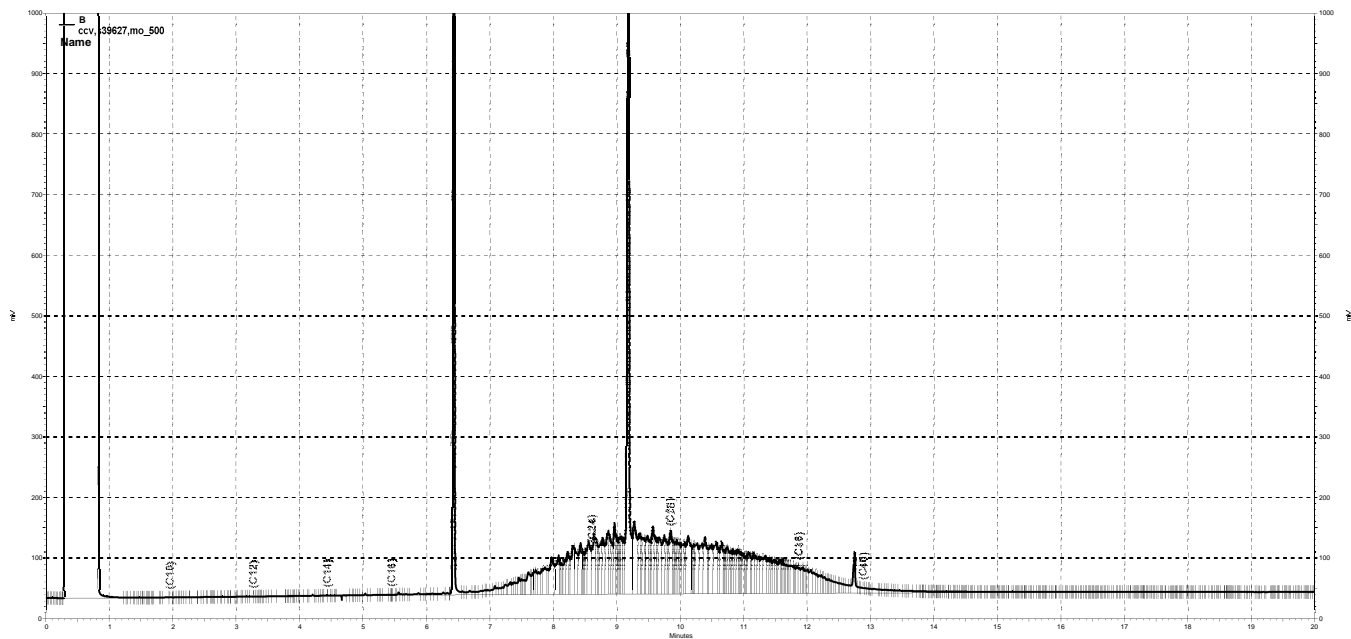
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033, B



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007, B



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b004, B



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005, B

ENTHALPY INITIAL CALIBRATION FOR 309066 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229121391002
 Units : mg/L

Name : BUNK_084 5PT
 Date : 25-MAR-2019 20:13
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	084_027	229121391027	BUNKC_250	25-MAR-2019 20:13	S40235
L2	084_028	229121391028	BUNKC_500	25-MAR-2019 20:40	S40224
L3	084_029	229121391029	BUNKC_1500	25-MAR-2019 21:08	S40223
L4	084_030	229121391030	BUNKC_2500	25-MAR-2019 21:35	S40222
L5	084_031	229121391031	BUNKC_5000	25-MAR-2019 22:03	S39008
L6	084_044	229121391044	BUNKC_50	26-MAR-2019 08:14	S40236

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Bunker C C12-C40	B	22866	22302	21890	21523	20712	23546	AVRG		4.52E-5		22140	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Bunker C C12-C40	B	250.00	3	500.00	1	1250.0	-1	2500.0	-3	5000.0	-6	50.000	6

TKY 03/26/19 : Corrected automatically drawn baseline in multiple levels.

Analyst: TKY

Date: 03/26/19

Reviewer: EAH

Date: 03/26/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY INITIAL CALIBRATION FOR 309066 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229137260002
 Units : mg/L

Name : DSL_095
 Date : 05-APR-2019 19:13
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	095_019	229137260019	DSL_10	05-APR-2019 19:13	S40131
L2	095_020	229137260020	DSL_100	05-APR-2019 19:40	S39770
L3	095_021	229137260021	DSL_500	05-APR-2019 20:08	S40082
L4	095_022	229137260022	DSL_1000	05-APR-2019 20:35	S40083
L5	095_023	229137260023	DSL_5000	05-APR-2019 21:03	S39749

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	39017	37879	38954	38130	38260	AVRG		2.60E-5		38448	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	1	100.00	-1	500.00	1	1000.0	-1	5000.0	0

TKY 04/08/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY

Date: 04/08/19

Reviewer: EAH

Date: 04/08/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 229137260002

Name : DSL_095
Cal Date : 05-APR-2019

ICV 229137260025 (095_025 05-APR-2019) stds: S39005

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	492.3	mg/L	-2	15	

Analyst: TKY

Date: 04/08/19

Reviewer: EAH

Date: 04/08/19

ENTHALPY INITIAL CALIBRATION FOR 309066 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229137260003
 Units : mg/L

Name : MO_095
 Date : 05-APR-2019 22:52
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	095_027	229137260027	MO_50	05-APR-2019 22:52	S39615
L2	095_028	229137260028	MO_250	05-APR-2019 23:19	S39616
L3	095_029	229137260029	MO_500	05-APR-2019 23:47	S39617
L4	095_030	229137260030	MO_1000	06-APR-2019 00:14	S39618
L5	095_031	229137260031	MO_2500	06-APR-2019 00:42	S39614 (2X)
L6	095_032	229137260032	MO_5000	06-APR-2019 01:09	S39614

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	31980	33167	30164	30623	28527	25984	AVRG		3.33E-5		30074	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	6	250.00	10	500.00	0	1000.0	2	2500.0	-5	5000.0	-14

TKY 04/08/19 : Corrected automatically drawn baseline in multiple levels.

Analyst: TKY

Date: 04/08/19

Reviewer: EAH

Date: 04/08/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 229137260003

Name : MO_095
Cal Date : 05-APR-2019

ICV 229137260034 (095_034 06-APR-2019) stds: S39627

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	B	500.0	467.3	mg/L	-7	15	

Analyst: TKY

Date: 04/08/19

Reviewer: EAH

Date: 04/08/19

ENTHALPY INITIAL CALIBRATION FOR 309066 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229163216001
 Units : mg/L

Name : HEX OPT_113
 Date : 25-APR-2019 03:05
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_087	229163216087	HEXOTP_2.5	25-APR-2019 03:05	S39678 (2X)
L2	113_088	229163216088	HEXOTP_5	25-APR-2019 03:33	S39678
L3	113_089	229163216089	HEXOTP_10	25-APR-2019 04:00	S39679
L4	113_090	229163216090	HEXOTP_25	25-APR-2019 04:27	S39680
L5	113_091	229163216091	HEXOTP_50	25-APR-2019 04:55	S39681
L6	113_092	229163216092	HEXOTP_100	25-APR-2019 05:22	S39682

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	48652	50557	49552	50011	48446	50045	AVRG		2.02E-5		49544	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	-2	5.0000	2	10.000	0	25.000	1	50.000	-2	100.00	1

TKY 04/25/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY

Date: 04/25/19

Reviewer: EAH

Date: 04/25/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

Carbon Marker Run

Inst : GC14B
 Seqnum : 229167587003
 Standards: S40185

Run Name : C10-C40
 File : 116_003

IDF : 1.0
 Time : 26-APR-2019 10:12

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	1.872	+/- 4.5s (0.075m)	1.797 - 1.947
C12 - n-Dodecane	B	3.185	+/- 4.5s (0.075m)	3.110 - 3.260
C14 - n-Tetradecane	B	4.345	+/- 4.5s (0.075m)	4.270 - 4.420
C16 - n-Hexadecane	B	5.353	+/- 4.5s (0.075m)	5.278 - 5.428
C18 - n-Octadecane	B	6.252	+/- 4.5s (0.075m)	6.177 - 6.327
C20 - n-Eicosane	B	7.07	+/- 4.5s (0.075m)	6.995 - 7.145
C22 - n-Docosane	B	7.818	+/- 4.5s (0.075m)	7.743 - 7.893
C24 - n-Tetracosane	B	8.507	+/- 4.5s (0.075m)	8.432 - 8.582
C28 - n-Octacosane	B	9.74	+/- 4.5s (0.075m)	9.665 - 9.815
C30 - n-Triacontane	B	10.293	+/- 4.5s (0.075m)	10.218 - 10.368
C32 - n-Dotriacontane	B	10.813	+/- 4.5s (0.075m)	10.738 - 10.888
C34 - n-Tetracontane	B	11.302	+/- 4.5s (0.075m)	11.227 - 11.377
C36 - n-Hexatriacontane	B	11.765	+/- 4.5s (0.075m)	11.690 - 11.840
C40 - n-Tetracontane	B	12.735	+/- 4.5s (0.075m)	12.660 - 12.810

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	1.797	5.428
Diesel C10-C22	B	1.797	7.893
Diesel C10-C24	B	1.797	8.582
Diesel C10-C28	B	1.797	9.815
Diesel C12-C24	B	3.110	8.582
Diesel C12-C28	B	3.110	9.815
Diesel C16-C24	B	5.278	8.582
Motor Oil C22-C32	B	7.743	10.888
Motor Oil C24-C36	B	8.432	11.840
Motor Oil C28-C40	B	9.665	12.810
Bunker C C10-C40	B	1.797	12.810
Bunker C C12-C40	B	3.110	12.810
Diesel C10-C14	B	1.797	4.420
Diesel C14-C24	B	4.270	8.582

EZChrom method retention times successfully validated.

Analyst: CRC

Date: 04/26/19

Reviewer: EAH

Date: 04/26/19

Carbon Marker Run

Inst : GC14B
 Seqnum : 229174702003
 Standards: S40185

Run Name : C10-C40
 File : 121_003

IDF : 1.0
 Time : 01-MAY-2019 08:38

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	1.792	+/- 4.5s (0.075m)	1.717 - 1.867
C12 - n-Dodecane	B	3.108	+/- 4.5s (0.075m)	3.033 - 3.183
C14 - n-Tetradecane	B	4.255	+/- 4.5s (0.075m)	4.180 - 4.330
C16 - n-Hexadecane	B	5.267	+/- 4.5s (0.075m)	5.192 - 5.342
C18 - n-Octadecane	B	6.165	+/- 4.5s (0.075m)	6.090 - 6.240
C20 - n-Eicosane	B	6.982	+/- 4.5s (0.075m)	6.907 - 7.057
C22 - n-Docosane	B	7.727	+/- 4.5s (0.075m)	7.652 - 7.802
C24 - n-Tetracosane	B	8.415	+/- 4.5s (0.075m)	8.340 - 8.490
C28 - n-Octacosane	B	9.645	+/- 4.5s (0.075m)	9.570 - 9.720
C30 - n-Triacontane	B	10.195	+/- 4.5s (0.075m)	10.120 - 10.270
C32 - n-Dotriacontane	B	10.715	+/- 4.5s (0.075m)	10.640 - 10.790
C34 - n-Tetratriacontane	B	11.203	+/- 4.5s (0.075m)	11.128 - 11.278
C36 - n-HexatriacontaneC36	B	11.662	+/- 4.5s (0.075m)	11.587 - 11.737
C40 - n-Tetracontane	B	12.602	+/- 4.5s (0.075m)	12.527 - 12.677

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	1.717	5.342
Diesel C10-C22	B	1.717	7.802
Diesel C10-C24	B	1.717	8.490
Diesel C10-C28	B	1.717	9.720
Diesel C12-C24	B	3.033	8.490
Diesel C12-C28	B	3.033	9.720
Diesel C16-C24	B	5.192	8.490
Motor Oil C22-C32	B	7.652	10.790
Motor Oil C24-C36	B	8.340	11.737
Motor Oil C28-C40	B	9.570	12.677
Bunker C C10-C40	B	1.717	12.677
Bunker C C12-C40	B	3.033	12.677
Diesel C10-C14	B	1.717	4.330
Diesel C14-C24	B	4.180	8.490

EZChrom method retention times successfully validated.

Analyst: TKY

Date: 05/01/19

Reviewer: EAH

Date: 05/01/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
Seqnum : 229167587005 File : 116_005 Time : 26-APR-2019 11:07
Standards: S39627

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229137260003	05-APR-2019	30074	30804	500.0	512.1	mg/L	2	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49332	50.00	49.79	mg/L	0	15	

CRC 04/26/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 04/26/19 Reviewer: EAH Date: 04/29/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
Seqnum : 229167587007 File : 116_007 Time : 26-APR-2019 12:03
Standards: S40454

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	229121391002	25-MAR-2019	22140	24864	500.0	561.5	mg/L	12	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	51885	50.00	52.36	mg/L	5	15	

CRC 04/26/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 04/26/19 Reviewer: EAH Date: 04/29/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229167587015 File : 116_015 Time : 26-APR-2019 17:19
 Standards: S39627

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229137260003	05-APR-2019	30074	30020	500.0	499.1	mg/L	0	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	47737	50.00	48.18	mg/L	-4	15	

CRC 04/26/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 04/26/19 Reviewer: EAH Date: 04/29/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
Seqnum : 229167587017 File : 116_017 Time : 26-APR-2019 18:14
Standards: S39005

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	40365	500.0	524.9	mg/L	5	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	47253	50.00	47.69	mg/L	-5	15	

CRC 04/26/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 04/29/19 Reviewer: EAH Date: 04/30/19
Page 1 of 1 229167587017

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 229167587020 File : 116_020 Time : 26-APR-2019 20:14
 Standards: S40454

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	229121391002	25-MAR-2019	22140	25347	500.0	572.4	mg/L	14	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49956	50.00	50.42	mg/L	1	15	

TKY 04/29/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 04/29/19 Reviewer: EAH Date: 04/29/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 229171804004 File : 119_004 Time : 29-APR-2019 08:48
 Standards: S39005

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	41834	500.0	544.0	mg/L	9	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49581	50.00	50.04	mg/L	0	15	

TKY 04/29/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 04/29/19 Reviewer: EAH Date: 04/29/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229171804005 File : 119_005 Time : 29-APR-2019 09:16
 Standards: S39627

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229137260003	05-APR-2019	30074	30312	500.0	504.0	mg/L	1	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49235	50.00	49.69	mg/L	-1	15	

TKY 04/29/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 04/29/19 Reviewer: EAH Date: 04/29/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 229171804007 File : 119_007 Time : 29-APR-2019 10:11
 Standards: S40454

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	229121391002	25-MAR-2019	22140	24609	500.0	555.8	mg/L	11	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49278	50.00	49.73	mg/L	-1	15	

TKY 04/29/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 04/29/19 Reviewer: EAH Date: 04/29/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
 Seqnum : 229171804018 File : 119_018 Time : 29-APR-2019 15:14
 Standards: S39192

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	44212	250.0	287.5	mg/L	15	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	46824	50.00	47.26	mg/L	-5	15	

CRC 04/29/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 04/29/19 Reviewer: EAH Date: 04/29/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 229171804021 File : 119_021 Time : 29-APR-2019 16:36
 Standards: S40454

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	229121391002	25-MAR-2019	22140	24941	500.0	563.3	mg/L	13	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	50986	50.00	51.46	mg/L	3	15	

CRC 04/29/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 04/29/19 Reviewer: EAH Date: 04/29/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 229171804036 File : 119_036 Time : 29-APR-2019 23:28
 Standards: S39005

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	41856	500.0	544.3	mg/L	9	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49645	50.00	50.10	mg/L	0	15	

TKY 04/30/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 04/30/19 Reviewer: EAH Date: 04/30/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
 Seqnum : 229171804051 File : 119_051 Time : 30-APR-2019 06:20
 Standards: S39192

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	43801	250.0	284.8	mg/L	14	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	46862	50.00	47.29	mg/L	-5	15	

TKY 04/30/19 : Corrected automatically drawn baseline.

TKY 04/30/19 : ccv,s39192,dsl_250

Analyst: TKY Date: 04/30/19 Reviewer: EAH Date: 04/30/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 229174702004 File : 121_004 Time : 01-MAY-2019 09:07
 Standards: S39005

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	41268	500.0	536.7	mg/L	7	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	48125	50.00	48.57	mg/L	-3	15	

TKY 05/01/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 05/01/19 Reviewer: TKM Date: 05/02/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229174702005 File : 121_005 Time : 01-MAY-2019 09:35
 Standards: S39627

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229137260003	05-APR-2019	30074	29705	500.0	493.9	mg/L	-1	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	46905	50.00	47.34	mg/L	-5	15	

TKY 05/01/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 05/01/19 Reviewer: TKM Date: 05/02/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 229174702007 File : 121_007 Time : 01-MAY-2019 10:30
 Standards: S40454

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	229121391002	25-MAR-2019	22140	22327	500.0	504.2	mg/L	1	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	46233	50.00	46.66	mg/L	-7	15	

TKY 05/01/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 05/01/19 Reviewer: TKM Date: 05/02/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
Seqnum : 229174702016 File : 121_016 Time : 01-MAY-2019 15:44
Standards: S40564

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	39811	1000	1035	mg/L	4	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49505	50.00	49.96	mg/L	0	15	

CRC 05/01/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 05/01/19 Reviewer: TKM Date: 05/02/19

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229174702017 File : 121_017 Time : 01-MAY-2019 16:11
 Standards: S39627

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229137260003	05-APR-2019	30074	27684	500.0	460.3	mg/L	-8	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	46665	50.00	47.09	mg/L	-6	15	

CRC 05/01/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 05/01/19 Reviewer: TKM Date: 05/02/19

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229121391

Instrument : GC14B
 Method : EPA 8015B

Begun : 03/25/19 07:11
 SOP Version : TEH_rv21

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	084_001	IB				03/25/19 07:11	1.0		
002	084_002	IB				03/25/19 07:39	1.0		
003	084_003	X	CMARKER			03/25/19 08:06	1.0	1	
004	084_004	CCV	DSL_500			03/25/19 08:34	1.0	2	
005	084_005	CCV	MO_500			03/25/19 09:02	1.0	3	
006	084_006	SAMPLE	308224-001	Soil	268782	03/25/19 09:31	3.0		3:DSL:16-24=7900
007	084_007	SAMPLE	308224-006	Soil	268782	03/25/19 09:58	1.0		
008	084_008	SAMPLE	308270-003	Soil	268824	03/25/19 10:56	10.0		2:DSL:16-24=6700
009	084_009	CCV	DSL_1000			03/25/19 11:43	1.0	4	
010	084_010	CCV	MO_500			03/25/19 12:10	1.0	3	
011	084_011	X	CMARKER			03/25/19 12:38	1.0	1	
012	084_012	SAMPLE	308320-001	Water	268820	03/25/19 13:25	1.0		
013	084_013	SAMPLE	308322-001	Water	268820	03/25/19 13:52	1.0		
014	084_014	SAMPLE	308314-001	Soil	268835	03/25/19 14:19	20.0		
015	084_015	SAMPLE	308323-002	Soil	268835	03/25/19 14:46	3.0		7:DSL:16-24=17000
016	084_016	SAMPLE	308323-004	Soil	268835	03/25/19 15:14	3.0		5:DSL:16-24=9400
017	084_017	SAMPLE	308323-003	Soil	268835	03/25/19 15:41	2.0		
018	084_018	SAMPLE	308323-001	Soil	268835	03/25/19 16:08	1.0		
019	084_019	SAMPLE	308285-001	Soil	268835	03/25/19 16:35	1.0		
020	084_020	SAMPLE	308285-002	Soil	268835	03/25/19 17:02	1.0		
021	084_021	SAMPLE	308285-003	Soil	268835	03/25/19 17:30	1.0		
022	084_022	CCV	DSL_250			03/25/19 17:57	1.0	5	
023	084_023	CCV	MO_500			03/25/19 18:24	1.0	3	
024	084_024	X	CMARKER			03/25/19 18:51	1.0	1	
025	084_025	IB	CALIB			03/25/19 19:19	1.0		
026	084_026	ICAL	BUNKC_50			03/25/19 19:46	1.0	6	
027	084_027	ICAL	BUNKC_250			03/25/19 20:13	1.0	7	
028	084_028	ICAL	BUNKC_500			03/25/19 20:40	1.0	8	
029	084_029	ICAL	BUNKC_1500			03/25/19 21:08	1.0	9	
030	084_030	ICAL	BUNKC_2500			03/25/19 21:35	1.0	10	
031	084_031	ICAL	BUNKC_5000			03/25/19 22:03	1.0	11	
032	084_032	IB	CALIB			03/25/19 22:30	1.0		
033	084_033	ICAL	MO_50			03/25/19 22:58	1.0	12	
034	084_034	ICAL	MO_250			03/25/19 23:25	1.0	13	
035	084_035	ICAL	MO_500			03/25/19 23:52	1.0	14	
036	084_036	ICAL	MO_1000			03/26/19 00:20	1.0	15	
037	084_037	ICAL	MO_2500			03/26/19 00:47	1.0	16	
038	084_038	ICAL	MO_5000			03/26/19 01:14	1.0	16	
039	084_039	IB	CALIB			03/26/19 01:41	1.0		
040	084_040	ICV	MO_500			03/26/19 02:09	1.0	3	
041	084_041	IB	CALIB			03/26/19 02:36	1.0		
042	084_042	CMARKER	C10-C40			03/26/19 03:04	1.0	1	
043	084_043	IB	CALIB			03/26/19 03:31	1.0		
044	084_044	ICAL	BUNKC_50			03/26/19 08:14	1.0	6	

TKY 03/25/19 : DCM:EM58320

TKY 03/26/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 44.

TKY 03/26/19 : Run 084_026 had electrical interference at RT=5.8. RR at run 044.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229121391

Instrument : GC14B Begun : 03/25/19 07:11
Method : EPA 8015B SOP Version : TEH_rv21

Standards used: 1=S39447 2=S39005 3=S39627 4=S39006 5=S39192 6=S40236 7=S40235 8=S40224 9=S40223 10=S40222 11=S39008
12=S39615 13=S39616 14=S39617 15=S39618 16=S39614

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229137260

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/05/19 07:40
 SOP Version : TEH_rv21

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	095_001	IB				04/05/19 07:40	1.0	
002	095_002	X	CMARKER			04/05/19 08:08	1.0	1
003	095_003	X	CMARKER			04/05/19 09:19	1.0	1
004	095_004	X	CMARKER			04/05/19 10:15	1.0	1
005	095_005	X	CMARKER			04/05/19 10:48	1.0	1
006	095_006	XCMARKER	C10-C40			04/05/19 11:47	1.0	1
007	095_007	CCV	DSL_500			04/05/19 12:30	1.0	2
008	095_008	CCV	MO_500			04/05/19 12:58	1.0	3
009	095_009	BLANK	QC970758	Water	269238	04/05/19 13:25	1.0	
010	095_010	CCV	BUNK_500			04/05/19 13:52	1.0	4
011	095_011	IB	CALIB			04/05/19 15:35	1.0	
012	095_012	ICAL	HEX OTP_2.5			04/05/19 16:02	1.0	5
013	095_013	ICAL	HEX OTP_5			04/05/19 16:29	1.0	5
014	095_014	ICAL	HEX OTP_10			04/05/19 16:56	1.0	6
015	095_015	ICAL	HEX OTP_25			04/05/19 17:24	1.0	7
016	095_016	ICAL	HEX OTP_50			04/05/19 17:51	1.0	8
017	095_017	ICAL	HEX OTP_100			04/05/19 18:19	1.0	9
018	095_018	IB	CALIB			04/05/19 18:46	1.0	
019	095_019	ICAL	DSL_10			04/05/19 19:13	1.0	10
020	095_020	ICAL	DSL_100			04/05/19 19:40	1.0	11
021	095_021	ICAL	DSL_500			04/05/19 20:08	1.0	12
022	095_022	ICAL	DSL_1000			04/05/19 20:35	1.0	13
023	095_023	ICAL	DSL_5000			04/05/19 21:03	1.0	14
024	095_024	IB	CALIB			04/05/19 21:30	1.0	
025	095_025	ICV	DSL_500			04/05/19 21:57	1.0	2
026	095_026	IB	CALIB			04/05/19 22:25	1.0	
027	095_027	ICAL	MO_50			04/05/19 22:52	1.0	15
028	095_028	ICAL	MO_250			04/05/19 23:19	1.0	16
029	095_029	ICAL	MO_500			04/05/19 23:47	1.0	17
030	095_030	ICAL	MO_1000			04/06/19 00:14	1.0	18
031	095_031	ICAL	MO_2500			04/06/19 00:42	1.0	19
032	095_032	ICAL	MO_5000			04/06/19 01:09	1.0	19
033	095_033	IB	CALIB			04/06/19 01:36	1.0	
034	095_034	ICV	MO_500			04/06/19 02:03	1.0	3
035	095_035	IB	CALIB			04/06/19 02:31	1.0	
036	095_036	CMARKER	C10-C40			04/06/19 02:58	1.0	1
037	095_037	IB	CALIB			04/06/19 03:26	1.0	

TKY 04/08/19 : DCM:EM58320

TKY 04/08/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 37.

Standards used: 1=S39447 2=S39005 3=S39627 4=S40261 5=S39678 6=S39679 7=S39680 8=S39681 9=S39682 10=S40131 11=S39770
 12=S40082 13=S40083 14=S39749 15=S39615 16=S39616 17=S39617 18=S39618 19=S39614

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229163216

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/19 08:16
 SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	113_001	IB					04/23/19 08:16	1.0		
002	113_002	X	XCMARKER				04/23/19 08:44	1.0	1	
003	113_003	XCMARKER	C10-C40				04/23/19 09:14	1.0	1	
004	113_004	CCV	DSL_500				04/23/19 09:41	1.0	2	
005	113_005	CCV	MO_500				04/23/19 10:09	1.0	3	
006	113_006	CCV	BUNK_500				04/23/19 10:36	1.0	4	
007	113_007	BLANK	QC972730		Water	269727	04/23/19 11:08	1.0		
008	113_008	BLANK	QC972730	S	Water	269727	04/23/19 11:35	1.0		
009	113_009	BS	QC972731		Water	269727	04/23/19 12:07	1.0		
010	113_010	BS	QC972731	S	Water	269727	04/23/19 12:35	1.0		
011	113_011	BSD	QC972732		Water	269727	04/23/19 13:02	1.0		
012	113_012	BSD	QC972732	S	Water	269727	04/23/19 13:30	1.0		
013	113_013	BS	QC972932		Water	269780	04/23/19 13:59	1.0		
014	113_014	IB					04/23/19 14:27	1.0		
015	113_015	BLANK	QC972730		Water	269727	04/23/19 14:55	1.0		
016	113_016	CCV	DSL_250				04/23/19 15:53	1.0	5	
017	113_017	CCV	MO_500				04/23/19 16:20	1.0	3	
018	113_018	CCV	BUNK_500				04/23/19 16:48	1.0	4	
019	113_019	X	XCMARKER				04/23/19 17:16	1.0	1	
020	113_020	SAMPLE	308987-021		Soil	269750	04/23/19 19:01	20.0		
021	113_021	SAMPLE	308987-019		Soil	269750	04/23/19 19:28	10.0		
022	113_022	IB					04/23/19 20:22	1.0		
023	113_023	BLANK	QC973167		Soil	269835	04/23/19 20:51	1.0		
024	113_024	LCS	QC973168		Soil	269835	04/23/19 21:19	1.0		
025	113_025	MSS	309128-007		Soil	269835	04/23/19 21:46	1.0		
026	113_026	MS	QC973169		Soil	269835	04/23/19 22:13	1.0		
027	113_027	MSD	QC973170		Soil	269835	04/23/19 22:41	1.0		
028	113_028	MS	QC972007		Soil	269551	04/23/19 23:08	3.0		
029	113_029	MSD	QC972008		Soil	269551	04/23/19 23:35	3.0		
030	113_030	SAMPLE	309128-004		Soil	269835	04/24/19 00:03	5.0		
031	113_031	SAMPLE	309128-005		Soil	269835	04/24/19 00:30	5.0		
032	113_032	SAMPLE	309113-001		Soil	269835	04/24/19 00:57	2.0		3:BUNKC:12-40=7600
033	113_033	CCV	DSL_1000				04/24/19 01:25	1.0	6	
034	113_034	CCV	MO_500				04/24/19 01:52	1.0	3	
035	113_035	X	XCMARKER				04/24/19 02:19	1.0	1	
036	113_036	SAMPLE	308993-005		Water	269638	04/24/19 02:47	10.0		
037	113_037	SAMPLE	309128-010		Soil	269835	04/24/19 03:14	1.0		
038	113_038	SAMPLE	309128-013		Soil	269835	04/24/19 03:41	1.0		
039	113_039	SAMPLE	309075-001		Water	269727	04/24/19 04:09	1.0		
040	113_040	SAMPLE	308993-001		Water	269638	04/24/19 04:36	1.0		
041	113_041	SAMPLE	308993-002		Water	269638	04/24/19 05:04	1.0		
042	113_042	SAMPLE	308993-003		Water	269638	04/24/19 05:31	1.0		
043	113_043	SAMPLE	308993-004		Water	269638	04/24/19 05:58	1.0		
044	113_044	SAMPLE	308993-006		Water	269638	04/24/19 06:26	1.0		
045	113_045	SAMPLE	308993-007		Water	269638	04/24/19 06:53	1.0		
046	113_046	CCV	DSL_250				04/24/19 07:21	1.0	5	
047	113_047	CCV	MO_500				04/24/19 07:48	1.0	3	
048	113_048	X	XCMARKER				04/24/19 08:16	1.0	1	
049	113_049	SAMPLE	308993-008		Water	269638	04/24/19 08:44	1.0		
050	113_050	SAMPLE	308988-001		Water	269638	04/24/19 09:11	1.0		
051	113_051	SAMPLE	308759-007		Soil	269750	04/24/19 09:39	3.0		2:BUNKC:10-40=6900
052	113_052	SAMPLE	308759-009		Soil	269750	04/24/19 10:06	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229163216

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/19 08:16
 SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	113_053	SAMPLE	308993-001		Water	269638	04/24/19 10:33	1.0	
054	113_054	SAMPLE	309120-001		Water	269780	04/24/19 11:08	1.0	
055	113_055	SAMPLE	309113-001		Soil	269835	04/24/19 11:35	2.0	2:BUNKC:12-40=7200
056	113_056	SAMPLE	309075-001		Water	269727	04/24/19 12:03	1.0	
057	113_057	CCV	DSL_500				04/24/19 12:52	1.0	2
058	113_058	CCV	MO_500				04/24/19 13:19	1.0	3
059	113_059	X	XCMARKER				04/24/19 13:47	1.0	7
060	113_060	SAMPLE	308938-001		Water	269495	04/24/19 14:44	10.0	2:BUNKC:12-40=7200
061	113_061	SAMPLE	308987-022		Soil	269776	04/24/19 15:12	5.0	
062	113_062	SAMPLE	308987-023		Soil	269776	04/24/19 15:40	5.0	
063	113_063	SAMPLE	308987-013		Soil	269750	04/24/19 16:07	5.0	
064	113_064	SAMPLE	308987-015		Soil	269750	04/24/19 16:35	5.0	
065	113_065	SAMPLE	309030-001		Soil	269776	04/24/19 17:02	1.0	
066	113_066	SAMPLE	309015-002		Soil	269776	04/24/19 17:30	1.0	13:BUNKC:10-40=310000
067	113_067	SAMPLE	308987-024		Soil	269776	04/24/19 17:58	1.0	
068	113_068	SAMPLE	308987-018		Soil	269750	04/24/19 18:25	1.0	
069	113_069	SAMPLE	309015-001		Soil	269776	04/24/19 18:53	1.0	
070	113_070	CCV	DSL_250				04/24/19 19:20	1.0	5
071	113_071	CCV	MO_500				04/24/19 19:48	1.0	3
072	113_072	X	XCMARKER				04/24/19 20:15	1.0	7
073	113_073	SAMPLE	309015-002		Soil	269776	04/24/19 20:42	50.0	2:BUNKC:10-40=6200
074	113_074	SAMPLE	308987-019		Soil	269750	04/24/19 21:10	5.0	
075	113_075	SAMPLE	308987-021		Soil	269750	04/24/19 21:37	5.0	
076	113_076	SAMPLE	308987-020		Soil	269750	04/24/19 22:04	5.0	
077	113_077	SAMPLE	308987-017		Soil	269750	04/24/19 22:32	5.0	
078	113_078	SAMPLE	308996-001		Water	269638	04/24/19 22:59	5.0	12:BUNKC:12-40=68000
079	113_079	SAMPLE	308996-002		Water	269638	04/24/19 23:26	5.0	15:BUNKC:12-40=37000
080	113_080	SAMPLE	308987-014		Soil	269750	04/24/19 23:54	3.0	
081	113_081	SAMPLE	308987-016		Soil	269750	04/25/19 00:21	1.0	
082	113_082	SAMPLE	309045-001		Water	269727	04/25/19 00:48	1.0	
083	113_083	CCV	DSL_500				04/25/19 01:16	1.0	2
084	113_084	CCV	MO_500				04/25/19 01:43	1.0	3
085	113_085	X	XCMARKER				04/25/19 02:10	1.0	7
086	113_086	IB	CALIB				04/25/19 02:38	1.0	
087	113_087	ICAL	HEXOTP_2.5				04/25/19 03:05	1.0	8
088	113_088	ICAL	HEXOTP_5				04/25/19 03:33	1.0	8
089	113_089	ICAL	HEXOTP_10				04/25/19 04:00	1.0	9
090	113_090	ICAL	HEXOTP_25				04/25/19 04:27	1.0	10
091	113_091	ICAL	HEXOTP_50				04/25/19 04:55	1.0	11
092	113_092	ICAL	HEXOTP_100				04/25/19 05:22	1.0	12
093	113_093	IB	CALIB				04/25/19 05:50	1.0	
094	113_094	CMARKER	C8-C40				04/25/19 06:17	1.0	1
095	113_095	IB	CALIB				04/25/19 06:45	1.0	
096	113_096	CCV	DSL_500				04/25/19 07:27	1.0	2
097	113_097	CCV	MO_500				04/25/19 07:54	1.0	3
098	113_098	SAMPLE	309058-003		Soil	269776	04/25/19 08:26	10.0	
099	113_099	SAMPLE	309065-002		Soil	269776	04/25/19 08:53	10.0	
100	113_100	SAMPLE	309058-002		Soil	269776	04/25/19 09:21	2.0	
101	113_101	SAMPLE	309058-001		Soil	269776	04/25/19 09:48	2.0	
102	113_102	SAMPLE	308996-001		Water	269638	04/25/19 10:16	50.0	3:BUNKC:12-40=9300
103	113_103	SAMPLE	308996-002		Water	269638	04/25/19 10:43	20.0	6:BUNKC:12-40=10000
104	113_104	SAMPLE	308905-004		Soil	269551	04/25/19 11:11	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229163216

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/23/19 08:16
 SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
105	113_105	SAMPLE	308905-014		Soil	269551	04/25/19 11:38	1.0	
106	113_106	IB					04/25/19 12:05	1.0	
107	113_107	IB					04/25/19 12:33	1.0	
108	113_108	SAMPLE	308936-002		Soil	269611	04/25/19 13:01	1.0	
109	113_109	CCV	DSL_250				04/25/19 13:28	1.0	5
110	113_110	CCV	MO_500				04/25/19 13:55	1.0	3
111	113_111	XCMARKER	C8-C40				04/25/19 14:22	1.0	7
112	113_112	BLANK	QC973292		Miscell.	269869	04/25/19 14:56	1.0	
113	113_113	BS	QC973293		Miscell.	269869	04/25/19 15:23	1.0	
114	113_114	BSD	QC973294		Miscell.	269869	04/25/19 15:50	1.0	
115	113_115	MS	QC973377		Soil	269888	04/25/19 16:17	1.0	
116	113_116	MSD	QC973378		Soil	269888	04/25/19 16:45	1.0	
117	113_117	SAMPLE	309140-002		Water	269780	04/25/19 17:12	2.0	
118	113_118	SAMPLE	309140-001		Soil	269888	04/25/19 17:39	1.0	
119	113_119	SAMPLE	309142-001		Soil	269888	04/25/19 18:06	1.0	
120	113_120	SAMPLE	309112-001		Water	269780	04/25/19 18:34	1.0	
121	113_121	SAMPLE	308938-002		Miscell.	269869	04/25/19 19:02	1.0	
122	113_122	SAMPLE	308938-003		Miscell.	269869	04/25/19 19:29	1.0	3:BUNKC:12-40=8600
123	113_123	CCV	DSL_500				04/25/19 19:56	1.0	2
124	113_124	CCV	MO_500				04/25/19 20:24	1.0	3
125	113_125	XCMARKER	C8-C40				04/25/19 20:51	1.0	7
126	113_126	SAMPLE	308936-002		Soil	269611	04/25/19 21:19	1.0	
127	113_127	SAMPLE	308962-008		Soil	269706	04/25/19 21:46	1.0	
128	113_128	SAMPLE	308962-011		Soil	269706	04/25/19 22:14	1.0	
129	113_129	SAMPLE	308962-018		Soil	269706	04/25/19 22:41	1.0	
130	113_130	SAMPLE	308962-013		Soil	269706	04/25/19 23:09	1.0	
131	113_131	SAMPLE	308962-015		Soil	269706	04/25/19 23:36	1.0	
132	113_132	SAMPLE	308962-009		Soil	269706	04/26/19 00:04	1.0	
133	113_133	SAMPLE	308938-004		Miscell.	269869	04/26/19 00:31	1.0	
134	113_134	SAMPLE	309083-001		Water	269780	04/26/19 00:59	1.0	
135	113_135	SAMPLE	309083-002		Water	269780	04/26/19 01:26	1.0	
136	113_136	CCV	DSL_250				04/26/19 01:54	1.0	5
137	113_137	CCV	MO_500				04/26/19 02:21	1.0	3
138	113_138	XCMARKER	C8-C40				04/26/19 02:48	1.0	7
139	113_139	SAMPLE	309083-003		Water	269780	04/26/19 03:16	1.0	
140	113_140	SAMPLE	309117-001		Soil	269835	04/26/19 03:43	10.0	4:DSL:16-24=7800
141	113_141	SAMPLE	309117-002		Soil	269835	04/26/19 04:10	10.0	
142	113_142	SAMPLE	309117-003		Soil	269835	04/26/19 04:38	10.0	
143	113_143	SAMPLE	309117-010		Soil	269835	04/26/19 05:06	10.0	4:DSL:16-24=7500
144	113_144	SAMPLE	309117-005		Soil	269835	04/26/19 05:33	10.0	
145	113_145	SAMPLE	309117-006		Soil	269835	04/26/19 06:01	10.0	
146	113_146	CCV	DSL_500				04/26/19 06:28	1.0	2
147	113_147	CCV	MO_500				04/26/19 06:57	1.0	3
148	113_148	XCMARKER	C8-C40				04/26/19 07:25	1.0	7

TKY 04/23/19 : DCM:EM58320

TKY 04/23/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 5.

CRC 04/23/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 6 through 17.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229163216

Instrument : GC14B Begun : 04/23/19 08:16
Method : EPA 8015B SOP Version : TEH_rv21

TKY 04/24/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 18 through 48.

CRC 04/24/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 49 through 61.

TKY 04/26/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 62 through 148.

Standards used: 1=S39447 2=S39005 3=S39627 4=S40454 5=S39192 6=S40064 7=S40185 8=S39678 9=S39679 10=S39680 11=S39681
12=S39682

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229167587

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/26/19 09:07
 SOP Version : TEH_rv21

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	116_001	IB				04/26/19 09:07	1.0	
002	116_002	X	XCMARKER			04/26/19 09:35	1.0	1
003	116_003	CMARKER	C10-C40			04/26/19 10:12	1.0	1
004	116_004	CCV	DSL_500			04/26/19 10:39	1.0	2
005	116_005	CCV	MO_500			04/26/19 11:07	1.0	3
006	116_006	CCV	JP5_250			04/26/19 11:34	1.0	4
007	116_007	CCV	BUNK_500			04/26/19 12:03	1.0	5
008	116_008	BLANK	QC973534	Water	269931	04/26/19 13:03	1.0	
009	116_009	BS	QC973535	Water	269931	04/26/19 13:30	1.0	
010	116_010	BSD	QC973536	Water	269931	04/26/19 13:58	1.0	
011	116_011	SAMPLE	309248-001	Water	269931	04/26/19 14:25	1.0	
012	116_012	IB				04/26/19 15:54	1.0	
013	116_013	BLANK	QC973534	Water	269931	04/26/19 16:22	1.0	
014	116_014	X	DSL_250			04/26/19 16:52	1.0	6
015	116_015	CCV	MO_500			04/26/19 17:19	1.0	3
016	116_016	X	XCMARKER			04/26/19 17:47	1.0	1
017	116_017	CCV	DSL_500			04/26/19 18:14	1.0	2
018	116_018	CCV	DSL_500			04/26/19 18:42	1.0	2
019	116_019	CCV	JP5_250			04/26/19 19:46	1.0	4
020	116_020	CCV	BUNK_500			04/26/19 20:14	1.0	5

TKY 04/29/19 : dcm:em58341

TKY 04/29/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 20.

TKY 04/29/19 : GC had tray malfunction at run 021. Didn't extend all the way to drop the vial to get injected. GC stopped running after error.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229171804

Instrument : GC14B
 Method : EPA 8015B

Begun : 04/29/19 07:24
 SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	119_001	IB					04/29/19 07:24	1.0	
002	119_002	IB					04/29/19 07:52	1.0	
003	119_003	X	XCMARKER				04/29/19 08:20	1.0	1
004	119_004	CCV	DSL_500				04/29/19 08:48	1.0	2
005	119_005	CCV	MO_500				04/29/19 09:16	1.0	3
006	119_006	CCV	JP5_250				04/29/19 09:43	1.0	4
007	119_007	CCV	BUNK_500				04/29/19 10:11	1.0	5
008	119_008	SAMPLE	309065-001		Water	269727	04/29/19 10:39	2.0	
009	119_009	IB					04/29/19 11:06	1.0	
010	119_010	BLANK	QC973643		Water	269958	04/29/19 11:34	1.0	
011	119_011	BLANK	QC973643		Water	269958	04/29/19 12:02	1.0	
012	119_012	SAMPLE	309066-001		Water	269931	04/29/19 12:30	1.0	
013	119_013	SAMPLE	309066-002		Water	269931	04/29/19 12:57	1.0	
014	119_014	SAMPLE	309066-003		Water	269931	04/29/19 13:24	1.0	
015	119_015	SAMPLE	309066-004		Water	269931	04/29/19 13:52	1.0	
016	119_016	SAMPLE	309202-001		Water	269931	04/29/19 14:19	1.0	
017	119_017	SAMPLE	309202-002		Water	269931	04/29/19 14:47	1.0	
018	119_018	CCV	DSL_250				04/29/19 15:14	1.0	6
019	119_019	CCV	MO_500				04/29/19 15:41	1.0	3
020	119_020	CCV	JP5_250				04/29/19 16:09	1.0	4
021	119_021	CCV	BUNK_500				04/29/19 16:36	1.0	5
022	119_022	X	XCMARKER				04/29/19 17:03	1.0	1
023	119_023	BSD	QC973645	S	Water	269958	04/29/19 17:31	1.0	
024	119_024	BS	QC973644		Water	269958	04/29/19 17:58	1.0	
025	119_025	BS	QC973644	S	Water	269958	04/29/19 18:26	1.0	
026	119_026	BSD	QC973645		Water	269958	04/29/19 18:53	1.0	
027	119_027	IB					04/29/19 19:20	1.0	
028	119_028	BLANK	QC973643	S	Water	269958	04/29/19 19:48	1.0	
029	119_029	BLANK	QC973534	S	Water	269931	04/29/19 20:15	1.0	
030	119_030	SAMPLE	309066-001	S	Water	269931	04/29/19 20:43	1.0	
031	119_031	SAMPLE	309066-002	S	Water	269931	04/29/19 21:10	1.0	
032	119_032	SAMPLE	309066-003	S	Water	269931	04/29/19 21:37	1.0	
033	119_033	SAMPLE	309066-004	S	Water	269931	04/29/19 22:05	1.0	
034	119_034	SAMPLE	309244-001		Water	269958	04/29/19 22:33	1.0	
035	119_035	SAMPLE	309244-002		Water	269958	04/29/19 23:00	1.0	
036	119_036	CCV	DSL_500				04/29/19 23:28	1.0	2
037	119_037	CCV	MO_500				04/29/19 23:55	1.0	3
038	119_038	CCV	JP5_250				04/30/19 00:23	1.0	4
039	119_039	CCV	BUNK_500				04/30/19 00:50	1.0	5
040	119_040	X	XCMARKER				04/30/19 01:18	1.0	1
041	119_041	BS	QC973535	S	Water	269931	04/30/19 01:45	1.0	
042	119_042	BSD	QC973536	S	Water	269931	04/30/19 02:13	1.0	
043	119_043	SAMPLE	309228-001		Soil	269956	04/30/19 02:40	5.0	
044	119_044	SAMPLE	309244-006		Water	269958	04/30/19 03:08	3.0	
045	119_045	SAMPLE	309244-007		Water	269958	04/30/19 03:35	2.0	
046	119_046	SAMPLE	309244-003		Water	269958	04/30/19 04:03	1.0	
047	119_047	SAMPLE	309244-004		Water	269958	04/30/19 04:30	1.0	
048	119_048	SAMPLE	309244-005		Water	269958	04/30/19 04:58	1.0	
049	119_049	SAMPLE	309242-010	S	Water	269958	04/30/19 05:25	1.0	
050	119_050	SAMPLE	309259-001		Water	269958	04/30/19 05:53	1.0	
051	119_051	CCV	DSL_250				04/30/19 06:20	1.0	6
052	119_052	CCV	MO_500				04/30/19 06:48	1.0	3

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229171804

Instrument : GC14B Begun : 04/29/19 07:24
 Method : EPA 8015B SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	119_053	CCV	JP5_250				04/30/19 07:26	1.0	4	
054	119_054	CCV	BUNK_500				04/30/19 07:55	1.0	5	
055	119_055	X	XCMARKER				04/30/19 08:23	1.0	1	
056	119_056	SAMPLE	309265-001		Soil	269997	04/30/19 09:20	5.0		11:BUNKC:12-40=69000
057	119_057	IB					04/30/19 09:49	1.0		
058	119_058	BLANK	QC973786		Water	269996	04/30/19 10:37	1.0		
059	119_059	XBLANK	QC973786		Water	269996	04/30/19 11:15	1.0		1:HXCS=100
060	119_060	SAMPLE	309203-002		Water	269996	04/30/19 11:43	10.0		
061	119_061	SAMPLE	309203-001		Water	269996	04/30/19 12:12	5.0		
062	119_062	SAMPLE	309203-003		Water	269996	04/30/19 12:40	5.0		
063	119_063	SAMPLE	309203-004		Water	269996	04/30/19 13:07	5.0		10:BUNKC:10-40=12000
064	119_064	SAMPLE	309203-005		Water	269996	04/30/19 13:34	5.0		
065	119_065	SAMPLE	309203-006		Water	269996	04/30/19 14:01	1.0		
066	119_066	SAMPLE	309203-004		Water	269996	04/30/19 14:29	20.0		
067	119_067	CCV	DSL_500				04/30/19 15:06	1.0	2	
068	119_068	CCV	MO_500				04/30/19 15:33	1.0	3	
069	119_069	CCV	JP5_250				04/30/19 16:01	1.0	4	
070	119_070	CCV	BUNK_500				04/30/19 16:28	1.0	5	
071	119_071	X	XCMARKER				04/30/19 16:55	1.0	1	
072	119_072	SAMPLE	309247-008		Soil	269997	04/30/19 17:49	1.0		sh
073	119_073	IB					04/30/19 18:48	1.0		
074	119_074	BLANK	QC973643	S	Water	269958	04/30/19 19:15	1.0		
075	119_075	BLANK	QC974058		Soil	270069	04/30/19 19:43	1.0		
076	119_076	LCS	QC974059		Soil	270069	04/30/19 20:10	1.0		
077	119_077	SAMPLE	309066-003	S	Water	269931	04/30/19 20:38	1.0		
078	119_078	SAMPLE	309247-002		Soil	269997	04/30/19 21:05	1.0		sh
079	119_079	SAMPLE	309247-011		Soil	269997	04/30/19 21:32	1.0		sh
080	119_080	SAMPLE	309247-004		Soil	269997	04/30/19 22:00	1.0		sh
081	119_081	SAMPLE	309247-006		Soil	269997	04/30/19 22:28	1.0		sh
082	119_082	SAMPLE	309247-003		Soil	269997	04/30/19 22:55	1.0		sh
083	119_083	SAMPLE	309247-009		Soil	269997	04/30/19 23:23	1.0		sh
084	119_084	SAMPLE	309247-010		Soil	269997	04/30/19 23:50	1.0		sh
085	119_085	SAMPLE	309247-001		Soil	269997	05/01/19 00:18	1.0		sh
086	119_086	CCV	DSL_250				05/01/19 00:46	1.0	6	
087	119_087	CCV	MO_500				05/01/19 01:13	1.0	3	
088	119_088	CCV	JP5_250				05/01/19 01:41	1.0	4	
089	119_089	CCV	BUNK_500				05/01/19 02:08	1.0	5	
090	119_090	X	XCMARKER				05/01/19 02:36	1.0	1	
091	119_091	CHECK	DSL_1000				05/01/19 03:03	1.0	7	

TKY 04/29/19 : DCM:EM58341

TKY 04/29/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 7.

CRC 04/29/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 8 through 21.

TKY 05/01/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 22 through 91.

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229171804

Instrument : GC14B Begun : 04/29/19 07:24
Method : EPA 8015B SOP Version : TEH_rv21

Standards used: 1=S40185 2=S39005 3=S39627 4=S40434 5=S40454 6=S39192 7=S40564

Flags used: sh= out of sample hold

Page 3 of 3

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 229174702

Instrument : GC14B Begun : 05/01/19 07:42
 Method : EPA 8015B SOP Version : TEH_rv21

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	121_001	IB					05/01/19 07:42	1.0	
002	121_002	X	XCMARKER				05/01/19 08:10	1.0	1
003	121_003	CMARKER	C10-C40				05/01/19 08:38	1.0	1
004	121_004	CCV	DSL_500				05/01/19 09:07	1.0	2
005	121_005	CCV	MO_500				05/01/19 09:35	1.0	3
006	121_006	CCV	JP5_250				05/01/19 10:02	1.0	4
007	121_007	CCV	BUNK_500				05/01/19 10:30	1.0	5
008	121_008	BLANK	QC974058		Soil	270069	05/01/19 10:57	1.0	
009	121_009	BLANK	QC973786		Water	269996	05/01/19 11:25	1.0	1:HXCS=100
010	121_010	XBLANK	QC974024		Soil	270060	05/01/19 11:55	1.0	
011	121_011	LCS	QC974025		Soil	270060	05/01/19 12:23	1.0	
012	121_012	MSS	309288-006		Soil	270060	05/01/19 12:50	1.0	2:BUNKC:10-40=6800
013	121_013	MS	QC974026		Soil	270060	05/01/19 13:18	1.0	2:BUNKC:10-40=5900
014	121_014	MSD	QC974027		Soil	270060	05/01/19 13:46	1.0	
015	121_015	SAMPLE	309066-003		Water	269931	05/01/19 14:13	1.0	
016	121_016	CCV	DSL_1000				05/01/19 15:44	1.0	6
017	121_017	CCV	MO_500				05/01/19 16:11	1.0	3
018	121_018	CCV	JP5_250				05/01/19 16:39	1.0	4
019	121_019	CCV	BUNK_500				05/01/19 17:06	1.0	5
020	121_020	X	XCMARKER				05/01/19 17:34	1.0	1
021	121_021	BLANK	QC974052		Water	270066	05/01/19 18:06	1.0	
022	121_022	BLANK	QC974052	S	Water	270066	05/01/19 18:33	1.0	
023	121_023	BS	QC974053		Water	270066	05/01/19 19:01	1.0	
024	121_024	BS	QC974053	S	Water	270066	05/01/19 19:29	1.0	
025	121_025	BSD	QC974054		Water	270066	05/01/19 19:56	1.0	
026	121_026	BSD	QC974054	S	Water	270066	05/01/19 20:24	1.0	
027	121_027	SAMPLE	203815-038		Water	270066	05/01/19 20:51	1.0	

TKY 05/01/19 : DCM:EM58341

TKY 05/01/19 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 5.

SAMPLE PREPARATION SUMMARY

Batch # : 269931
 Started By : EJ1
 Method : 3520C
 Spike #1 ID : S40299

Prep Date : 25-APR-2019 16:44
 Spike #2 ID : S40149

Analysis : TEHM
 Finished By : TRI
 Units : mL
 Spike #3 ID : S39614

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
203815-038		Water	500	2.5	1	0.005		.5				(rebatched)	See comment 1 below
212266-047		Water	500	2.5	1	0.005		.5		.04		(rebatched)	See comment 2 below
213035-048		Water	500	2.5	1	0.005		.5	.016			(rebatched)	See comment 3 below
309066-001		Water	520	2.5	1	0.004808	7	.5			3630	TEHM	
309066-002		Water	540	2.5	1	0.00463	7	.5			3630	TEHM	
309066-003		Water	540	2.5	1	0.00463	7	.5			3630	TEHM	
309066-004		Water	520	2.5	1	0.004808	7	.5			3630	TEHM	
309202-001		Water	500	2.5	1	0.005	7	.5				TEHM	
309202-002		Water	500	2.5	1	0.005	7	.5				TEHM	
309226-001		Water	500	2.5	1	0.005	7	.5				TEH	
309226-002		Water	500	2.5	1	0.005	7	.5				TEH	
309242-001		Water	550	2.5	1	0.004545	7	.5			3630	TEHM	
309242-002		Water	540	2.5	1	0.00463	7	.5			3630	TEHM	
309242-003		Water	520	2.5	1	0.004808	7	.5			3630	TEHM	
309242-004		Water	500	2.5	1	0.005	7	.5			3630	TEHM	
309242-005		Water	500	2.5	1	0.005	7	.5			3630	TEHM	
309242-006		Water	540	2.5	1	0.00463	7	.5			3630	TEHM	
309242-008		Water	500	2.5	1	0.005	7	.5			3630	TEHM	
309242-009		Water	500	2.5	1	0.005	7	.5			3630	TEHM	
309248-001		Water	500	2.5	1	0.005	7	.5				TEHM	
QC973534	BLANK	Water	500	2.5	1	0.005		.5			3630	TEH	
QC973535	BS	Water	500	2.5	1	0.005		.5	.5		3630	TEH	
QC973536	BSD	Water	500	2.5	1	0.005		.5	.5		3630	TEH	

Comment 1: Prepped 25-APR-2019 16:57; +.12 mL S40434B; A/O EJ1, 0.12mL JP525OCCV: S40434b
 Comment 2: Prepped 25-APR-2019 16:57; A/O EJ1, 0.04mL MO5000: S39614B
 Comment 3: Prepped 25-APR-2019 16:57; A/O EJ1, 0.016mL DSL#2_SP: S40149b

CRC 04/26/19 : Matrix spikes were not performed for this analysis in batch 269931 due to insufficient sample amount.

EAH 04/29/19 : efor NSG jobs.

Analyst: CRC Date: 04/29/19 Reviewer: EAH Date: 04/30/19

Prep Chemist: ES1
 Cleanup Date: 4/26/19

Benchbook # **BK 4340**
 Page 83

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
309066-001	209931	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
2		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
3		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
4		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
5 309242-001		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
2		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
3		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
4		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
5		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
10 6		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
8		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
9		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
MB QC 973534		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
BS 5		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
15 BSO 6		<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	<input type="checkbox"/> 1.0 <input checked="" type="checkbox"/> 0.5	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
20		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
25		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	
30		<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	<input type="checkbox"/> 1.0 <input type="checkbox"/> _____	

Handwritten signature and date: 4/26/19

- Extracts were cleaned up using C&T assembled 1.0 g columns
- Extracts were cleaned up using g cartridges
- Extracts were eluted with 4.0 mL CH₂Cl₂
- Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
3040040	ES1 4/26/19
-	
EM58341	
<input checked="" type="checkbox"/>	

Handwritten signature and date: 4/26/19
Extraction Chemist / Date

Continued from page _____
 Continued on page _____

Handwritten signature and date: 4/26/19
Reviewed by / Date

TEH (8015) Water Prep Log

version 201901

Enthlapy Analytical LLC - Berkeley

LIMS Batch No: 269971
 LIMS Analysis: TEH
 Date Extracted: 4/25/19

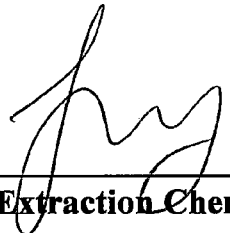
Extraction Method:
 EPA 3520c cont. L/L

Page 24 BK 4398
 Cleanup Method (if needed):
 EPA 3630c Silica Gel


Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments (receiver# if DoD)	DoD?
202815 202815-028	NA	500	7	NA	X	0.12 mL JPS250CCV	
21226-047	I	500	7	I		0.04 mL M05000 (S39614B)	
213035-048	I	500	7	I		0.016 mL DSC (S39614B)	
309066-001	H	500	7	520	X		
5	2	F	7	540	I		
	3	I	7	540	I		
	4	G	7	520	I		
309248-001	J	500	7	2.5			
309202-001	E	500	7	2.5			
10	2	L	7	2.5			
309226-001	A	500	7	2.5			
	2	I	7	2.5			
309242-001	E	500	7	550	X		
15	2	I	7	540	I		
	3	I	7	520	I		
	4	I	7	500	I		
	5	F	7	500	I		
	6	I	7	540	I		
20	8	I	7	2.5			
	9	E	7	2.5			
MS	QC 973534	MA	7	NA			
BS	I	S	7	I			
BSD	I	b	7	I			
			7	2.5			

BS/MSD only (MS/MSD not included) due to: insufficient volume, or other (reason)

Checked pH with pH strips - lot # HCS47770 EJL 4/25/19
0.5 mL of TEH_SURR was added to all samples S401866 S40299C
0.5 mL of TEH_SP was added to all spikes S401840 S401498
 3520c: Samples were continually extracted about 450 mL of CH₂Cl₂
 Extraction Start Time: 16:44 / 16:57
 Extraction End Time: 16:45 / 10:47 EJL 4/26/19
 3510c: Samples were extracted 3 times with 60 mL of CH₂Cl₂
 Extracts filtered through baked, CH₂Cl₂-rinsed granular Na₂SO₄ EM58341 TR1 4/26/19
 Concentrated to final volume in boiling water bath 19K2956872 4/22/19
 Relinquished to TEH Department


 Extraction Chemist _____ Date 4/25/19

Continued from Page _____
 Continued on Page _____


 Reviewed by _____ Date 4/26/19
 for NSG

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 309066-001 Client ID : BR11-1GW01
 Seqnum : 229171804012.1 Matrix : Water Acct : TRC-SF (HEC)
 File : 119_012 Batch : 269931 Time : 29-APR-2019 12:30
 IDF : 1.0 Raw Units : mg/L Units : ug/L

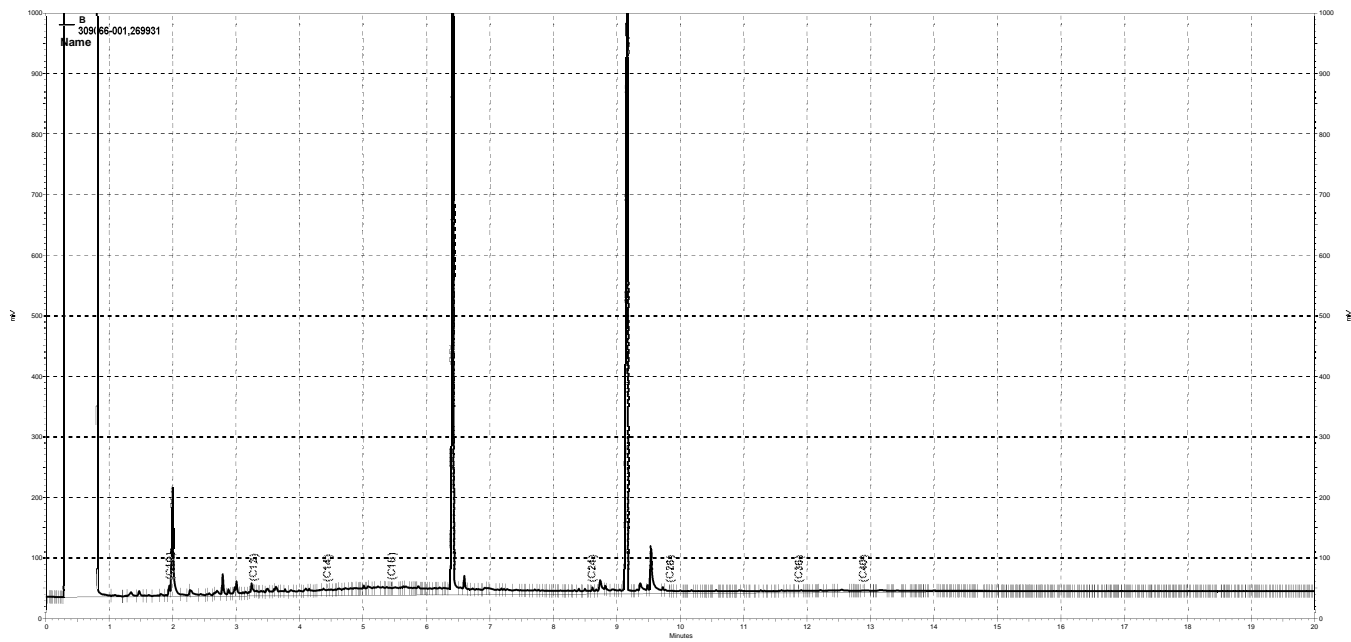
520.00 mL --> 2.5 ml = 0.004808 ml/ml PDF

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229137260002	95.92	460	48		u
Motor Oil C24-C36	B	229137260003	38.11	ND	290		u
Bunker C C12-C40	B	229121391002	192.8	930	290	28	Y u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229163216001	55.68	240.4	267.7	111	68-124	u

TKY: 04/29/19 * CRC: 04/30/19 EAH: 04/30/19 * TKM: 05/02/19

Y=does not resemble standard u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b012, B

Sample Name: 309066-001,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 12:30:05 PM
 Analysis Date: 4/29/2019 12:58:01 PM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2047108	54.990
DSL:10-14	1363573	97.004
DSL:10-22	6215124	166.211
DSL:10-24	6446786	167.676
DSL:10-28	9526444	243.111
DSL:12-24	5733259	170.455
DSL:12-28	8812917	256.392
DSL:14-24	5177982	200.206
DSL:16-24	4514988	253.955
MO:22-32	3604837	126.660
MO:24-36	3548933	118.006
MO:28-40	662645	32.963
BUNKC:10-40	10144531	442.606
BUNKC:12-40	9431004	425.970

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

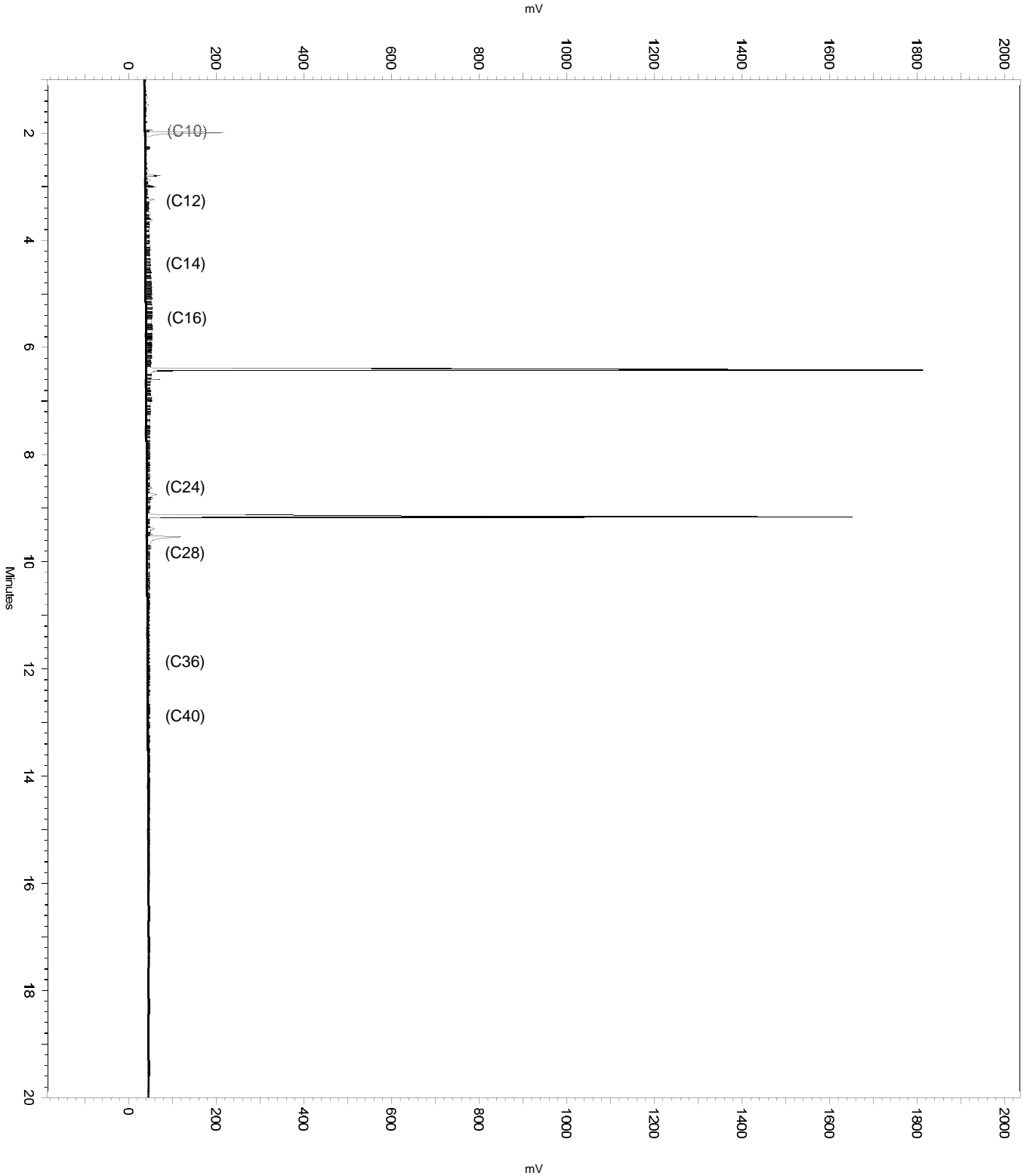
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.341	6.698	0
No	Split Peak	6.363	0	0
No	Split Peak	6.513	0	0
No	Split Peak	9.2	0	0
No	Reassign Peak	9.204	9.14	0
Yes	Move BL Stop	12.667	16.717	0

Sample Name: 309066-001,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b012
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 12:30:05 PM
Analysis Date: 4/29/2019 12:58:01 PM
Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-001,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 12:30:05 PM
 Analysis Date: 4/29/2019 12:57:46 PM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1869562	50.220
DSL:10-14	1254641	89.254
DSL:10-22	5806507	155.284
DSL:10-24	5957104	154.940
DSL:10-28	8873717	226.454
DSL:12-24	5284434	157.111
DSL:12-28	8201047	238.591
DSL:14-24	4786704	185.077
DSL:16-24	4191302	235.749
MO:22-32	3186598	111.964
MO:24-36	3061742	101.806
MO:28-40	165829	8.249
BUNKC:10-40	9012174	393.202
BUNKC:12-40	8339504	376.670

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

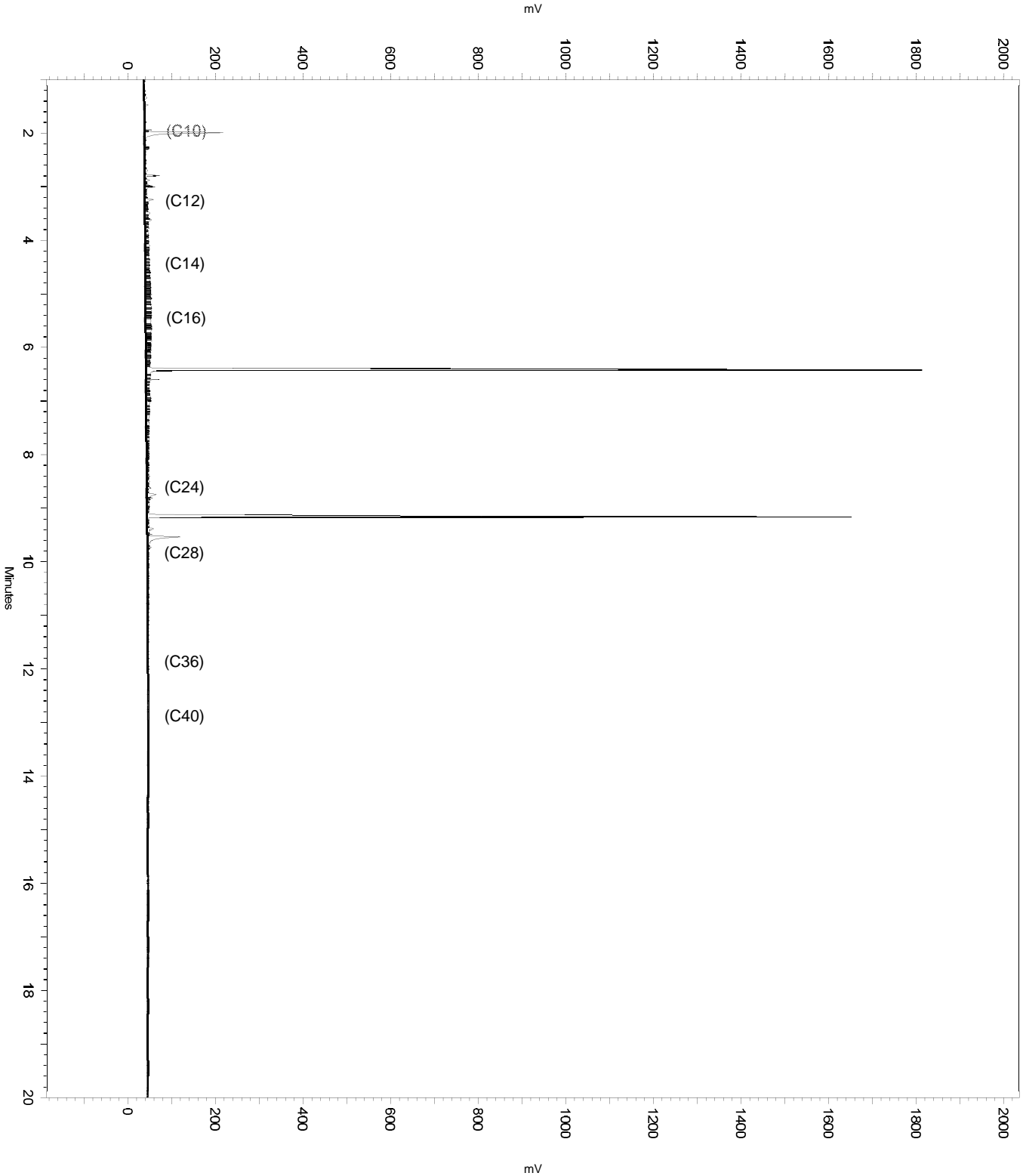
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.341	6.698	0
No	Split Peak	6.363	0	0
No	Split Peak	6.513	0	0
No	Split Peak	9.2	0	0
No	Reassign Peak	9.204	9.14	0

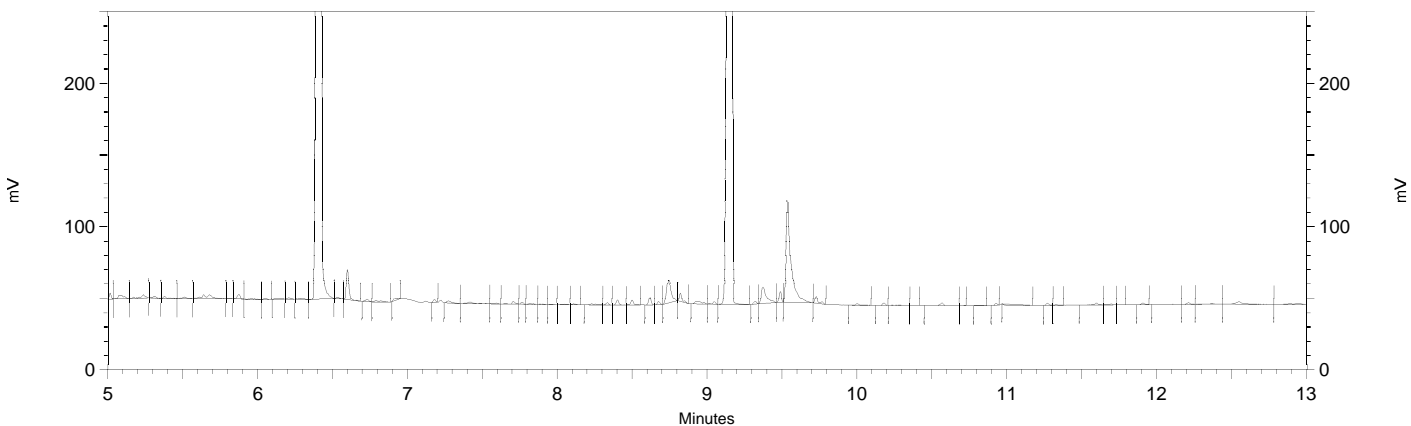
Sample Name: 309066-001,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b012
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 12:30:05 PM
Analysis Date: 4/29/2019 12:57:46 PM
Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-001,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b012
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 12:30:05 PM
 Analysis Date: 4/29/2019 12:56:46 PM
 Instrument: GC14B Vial: 12 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.422	2758686	55.682
Hexacosane	9.163	2402880	58.631



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.341	6.698	0
No	Split Peak	6.363	0	0
No	Split Peak	6.513	0	0
No	Split Peak	9.2	0	0
No	Reassign Peak	9.204	9.14	0

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 309066-001 (S) Client ID : BR11-1GW01
 Seqnum : 229171804030.3 Matrix : Water Acct : TRC-SF (HEC)
 File : 119_030 Batch : 269931 Time : 29-APR-2019 20:43
 IDF : 1.0 Raw Units : mg/L Units : ug/L

520.00 mL --> 2.5 ml = 0.004808 ml/ml PDF

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229137260002	33.96	160	48	21	Y u
Motor Oil C24-C36	B	229137260003	15.91	ND	290		u
Bunker C C12-C40	B	229121391002	78.72	380	290	70	Y u

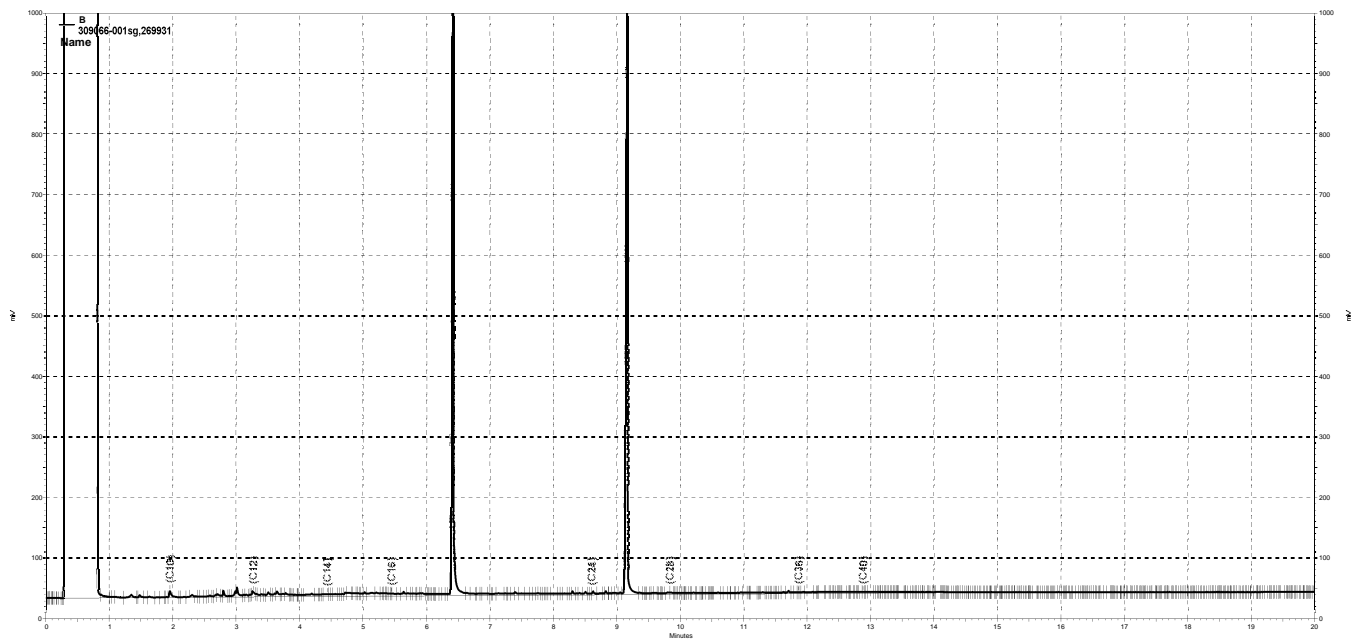
Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229163216001	43.67	240.4	210.0	87	68-124	u

TKY 04/30/19 : Corrected automatically drawn baseline.

TKY 04/30/19 : Corrected automatically drawn baseline.

CRC: 04/30/19 EAH: 04/30/19 * TKM: 05/02/19

Y=does not resemble standard u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030, B

Sample Name: 309066-001sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 8:43:05 PM
 Analysis Date: 4/30/2019 8:16:42 AM
 Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	722830	19.417
DSL:10-14	444090	31.592
DSL:10-22	3363999	89.964
DSL:10-24	3469589	90.241
DSL:10-28	5618880	143.392
DSL:12-24	3311043	98.440
DSL:12-28	5460334	158.856
DSL:14-24	3052404	118.021
DSL:16-24	2790027	156.931
MO:22-32	2411700	84.738
MO:24-36	2424602	80.620
MO:28-40	416467	20.717
BUNKC:10-40	6011345	262.275
BUNKC:12-40	5852799	264.353

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

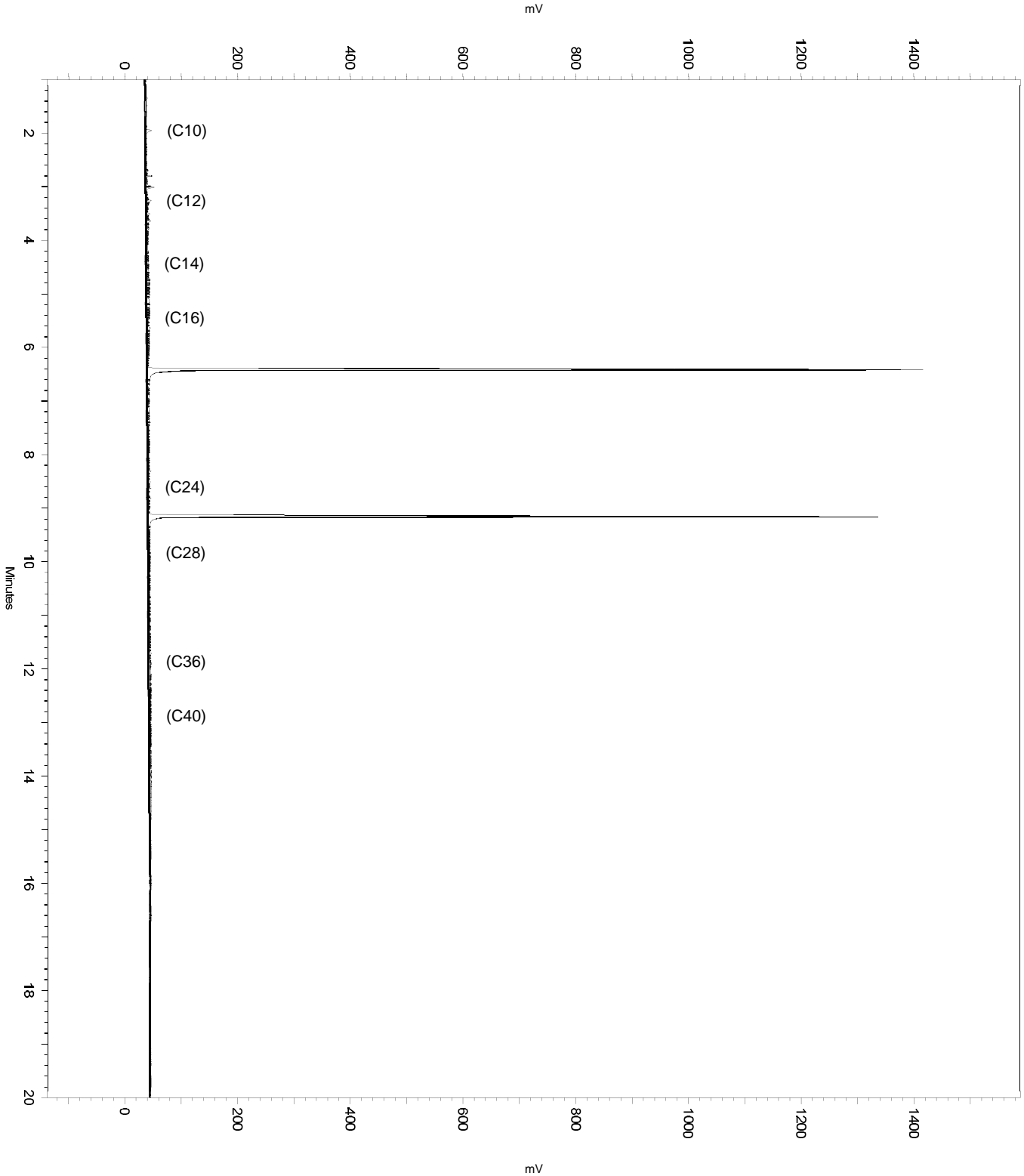
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Force Peak Stop     2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Peak          6.368     6.621     0
No Split Peak           6.543     0          0
No Manual Peak          9.099     9.337     0
No Split Peak           9.261     0          0
Yes Move BL Stop        9.752     16.086    0
  
```

Sample Name: 309066-001sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 8:43:05 PM
Analysis Date: 4/30/2019 8:16:42 AM
Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-001sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 8:43:05 PM
 Analysis Date: 4/30/2019 8:16:22 AM
 Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	614121	16.497
DSL:10-14	389082	27.679
DSL:10-22	3063758	81.934
DSL:10-24	3099500	80.616
DSL:10-28	5099648	130.141
DSL:12-24	2955352	87.865
DSL:12-28	4955500	144.169
DSL:14-24	2731666	105.619
DSL:16-24	2519059	141.690
MO:22-32	2054333	72.181
MO:24-36	2027204	67.407
MO:28-40	42242	2.101
BUNKC:10-40	5138700	224.202
BUNKC:12-40	4994552	225.589

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

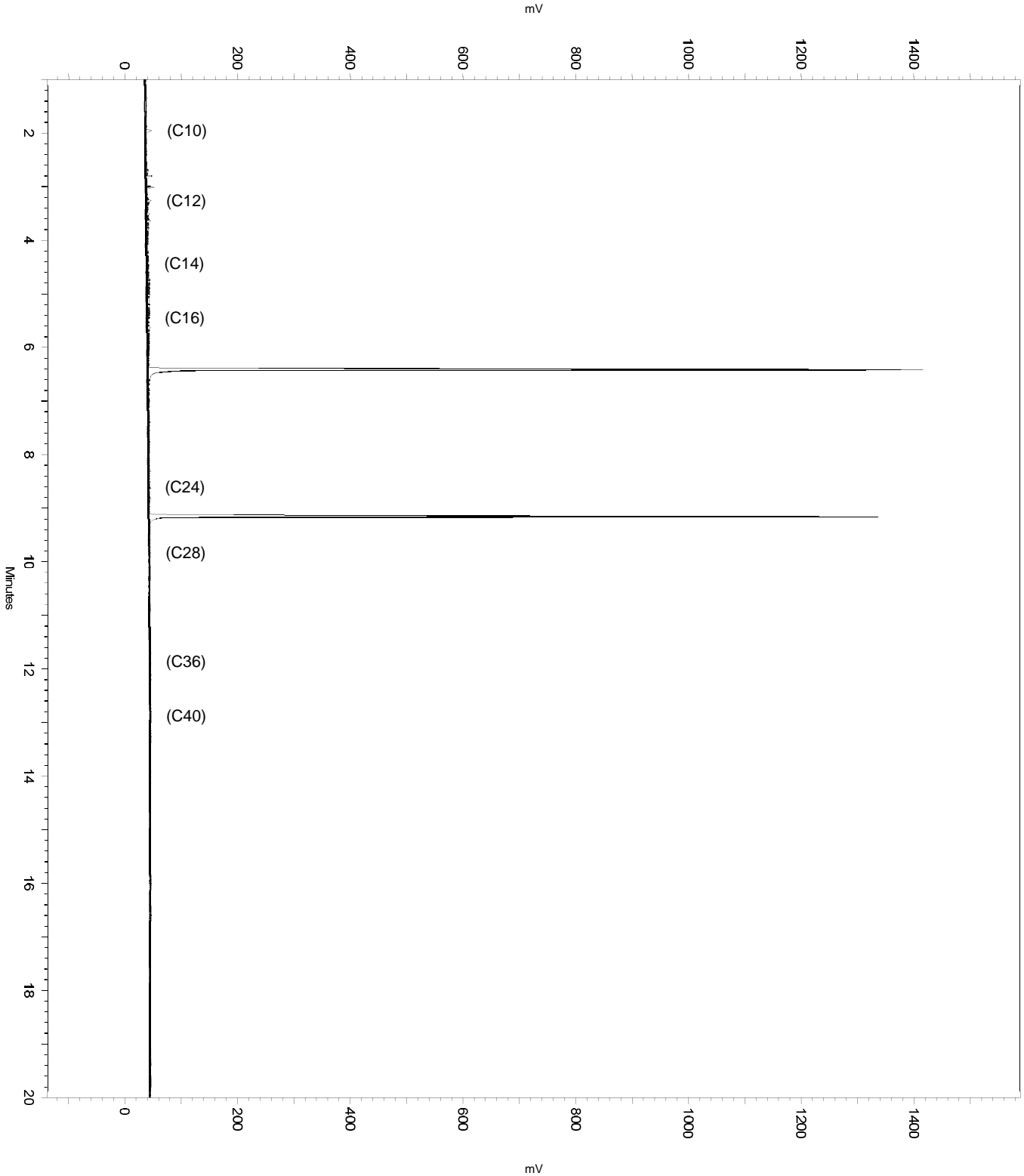
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.368	6.621	0
No	Split Peak	6.543	0	0
No	Manual Peak	9.099	9.337	0
No	Split Peak	9.261	0	0

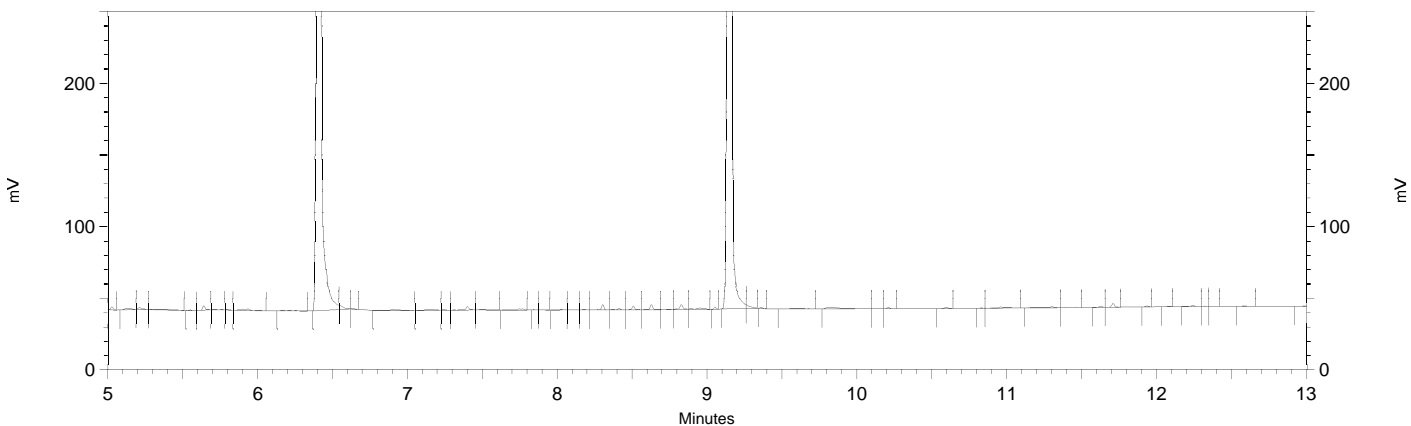
Sample Name: 309066-001sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 8:43:05 PM
Analysis Date: 4/30/2019 8:16:22 AM
Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-001sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 8:43:05 PM
 Analysis Date: 4/30/2019 8:09:10 AM
 Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.418	2163732	43.673
Hexacosane	9.162	1946241	47.489



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

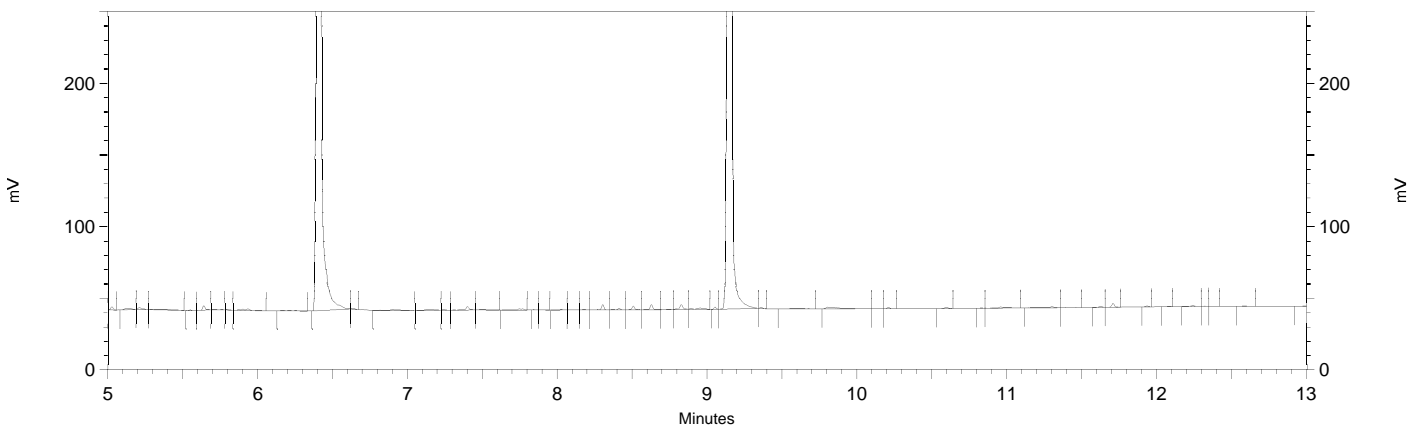
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.368	6.621	0
Yes	Split Peak	6.543	0	0
Yes	Manual Peak	9.099	9.337	0
Yes	Split Peak	9.261	0	0

Sample Name: 309066-001sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 8:43:05 PM
 Analysis Date: 4/30/2019 8:08:44 AM
 Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.418	2169842	43.797
Hexacosane	9.162	1953011	47.654



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off     0       2     0
Yes Valley to Valley    0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b030
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 309066-002 Client ID : BR11-1GW02
 Seqnum : 229171804013.2 Matrix : Water Acct : TRC-SF (HEC)
 File : 119_013 Batch : 269931 Time : 29-APR-2019 12:57
 IDF : 1.0 Raw Units : mg/L Units : ug/L

540.00 mL --> 2.5 ml = 0.00463 ml/ml PDF

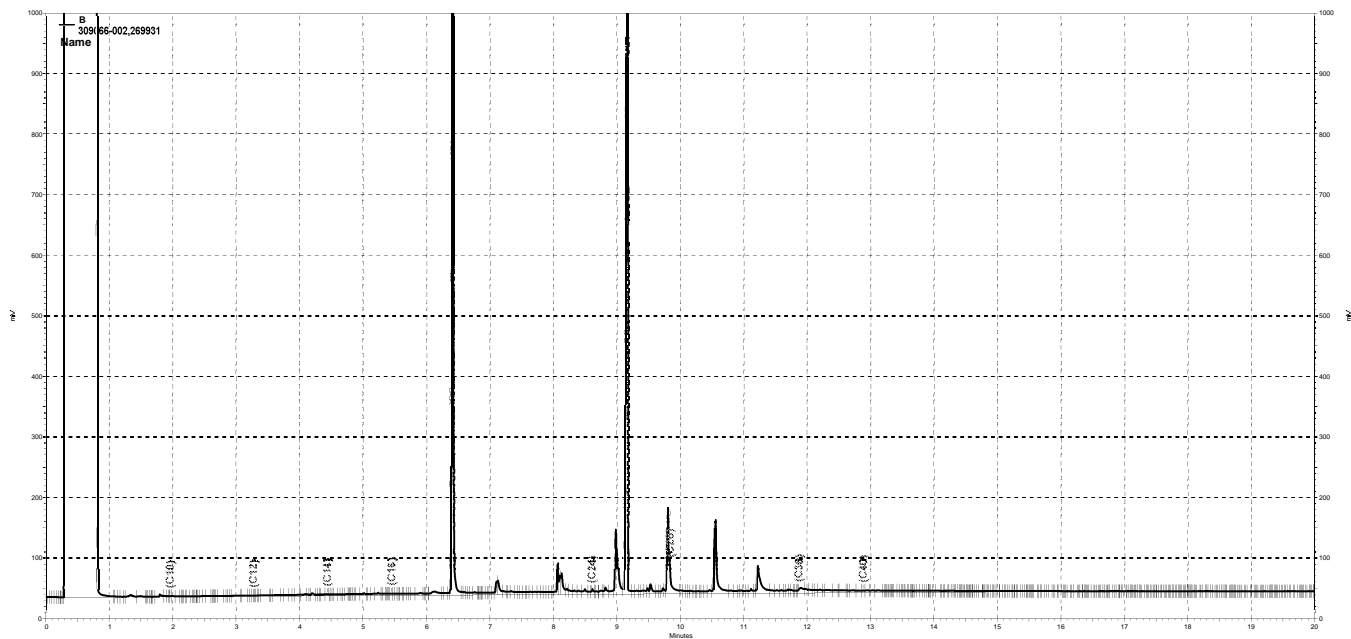
Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229137260002	34.44	160	46		Y Z u
Motor Oil C24-C36	B	229137260003	64.25	300	280		Y Z u
Bunker C C12-C40	B	229121391002	154.5	720	280	28	Y Z u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229163216001	53.75	231.5	248.9	108	68-124	u

CRC 04/29/19 : Corrected automatically drawn baseline.

TKY: 04/29/19 * CRC: 04/30/19 EAH: 04/30/19 * TKM: 05/02/19

Y=does not resemble standard Z=single peak u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013, B

Sample Name: 309066-002,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 12:57:21 PM
 Analysis Date: 4/29/2019 1:53:52 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	344917	9.265
DSL:10-14	191403	13.616
DSL:10-22	3620102	96.813
DSL:10-24	3987372	103.709
DSL:10-28	7328053	187.009
DSL:12-24	3934135	116.965
DSL:12-28	7274816	211.644
DSL:14-24	3814892	147.502
DSL:16-24	3664677	206.128
MO:22-32	4237725	148.897
MO:24-36	4256567	141.535
MO:28-40	1538492	76.532
BUNKC:10-40	8461525	369.177
BUNKC:12-40	8408288	379.777

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

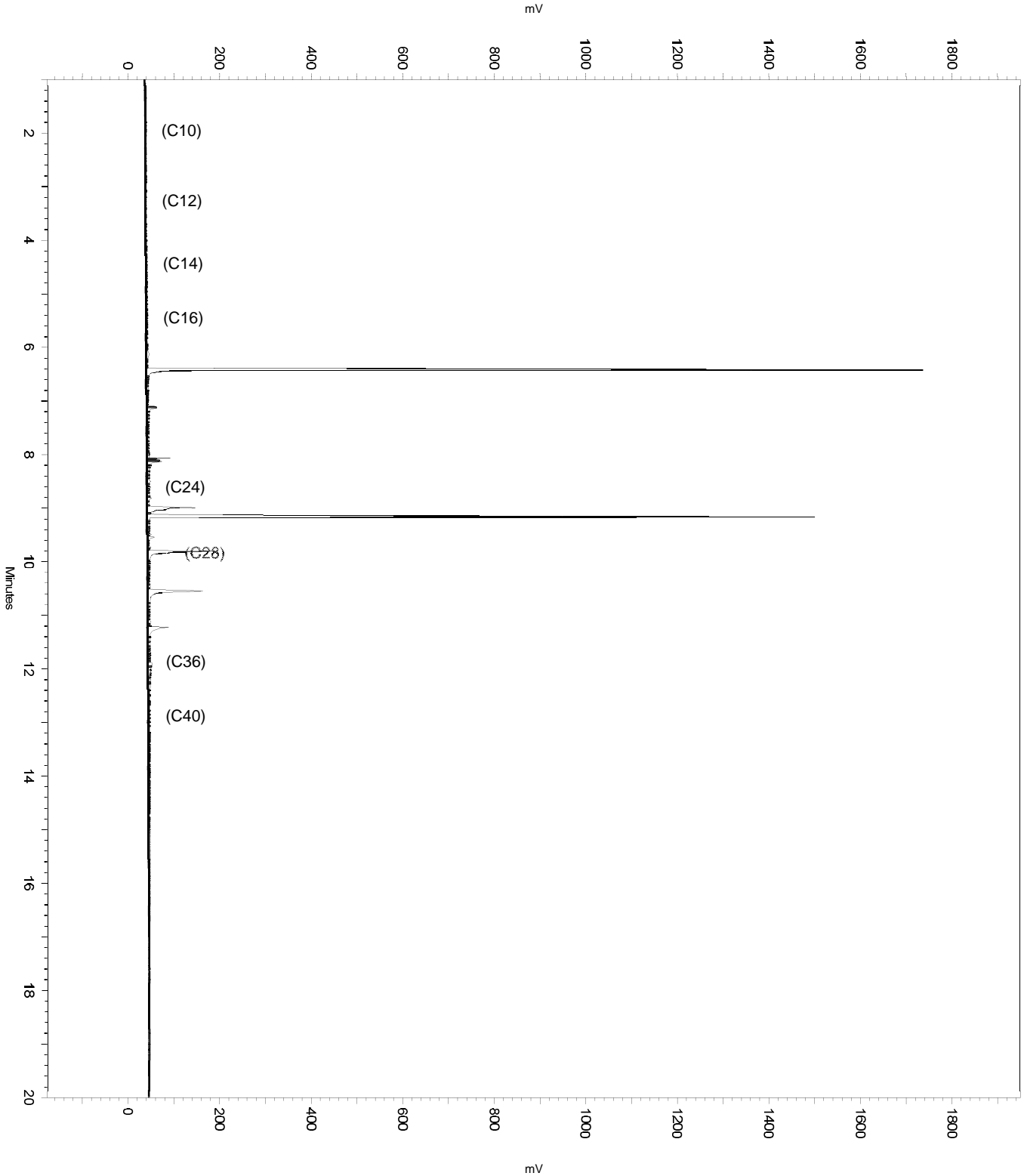
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	2.222	17.115	0
No	Manual Peak	6.365	6.716	0
No	Split Peak	6.545	0	0
No	Manual Peak	8.888	9.279	0
No	Split Peak	9.099	0	0
No	Split Peak	9.2	0	0
No	Reassign Peak	9.205	9.148	0

Sample Name: 309066-002,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 12:57:21 PM
Analysis Date: 4/29/2019 1:53:52 PM
Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-002,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 12:57:21 PM
 Analysis Date: 4/29/2019 1:53:33 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	51861	1.393
DSL:10-14	38618	2.747
DSL:10-22	2907276	77.749
DSL:10-24	3131010	81.435
DSL:10-28	6153734	157.041
DSL:12-24	3111558	92.509
DSL:12-28	6134282	178.463
DSL:14-24	3093203	119.598
DSL:16-24	3081332	173.316
MO:22-32	3556644	124.966
MO:24-36	3547228	117.949
MO:28-40	964361	47.972
BUNKC:10-40	6784973	296.029
BUNKC:12-40	6765521	305.578

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

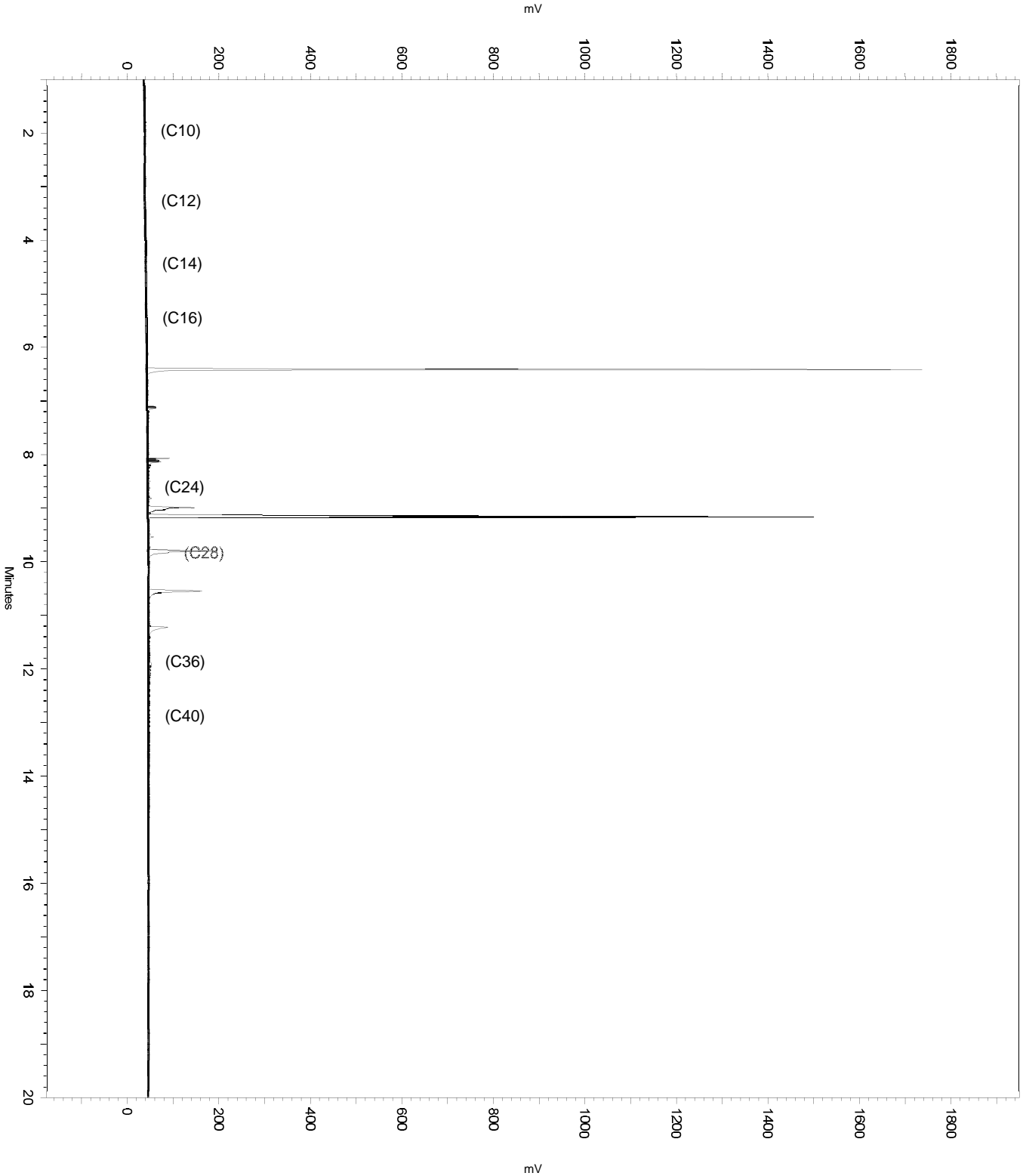
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.365	6.716	0
No	Split Peak	6.545	0	0
No	Manual Peak	8.888	9.279	0
No	Split Peak	9.099	0	0
No	Split Peak	9.2	0	0
No	Reassign Peak	9.205	9.148	0

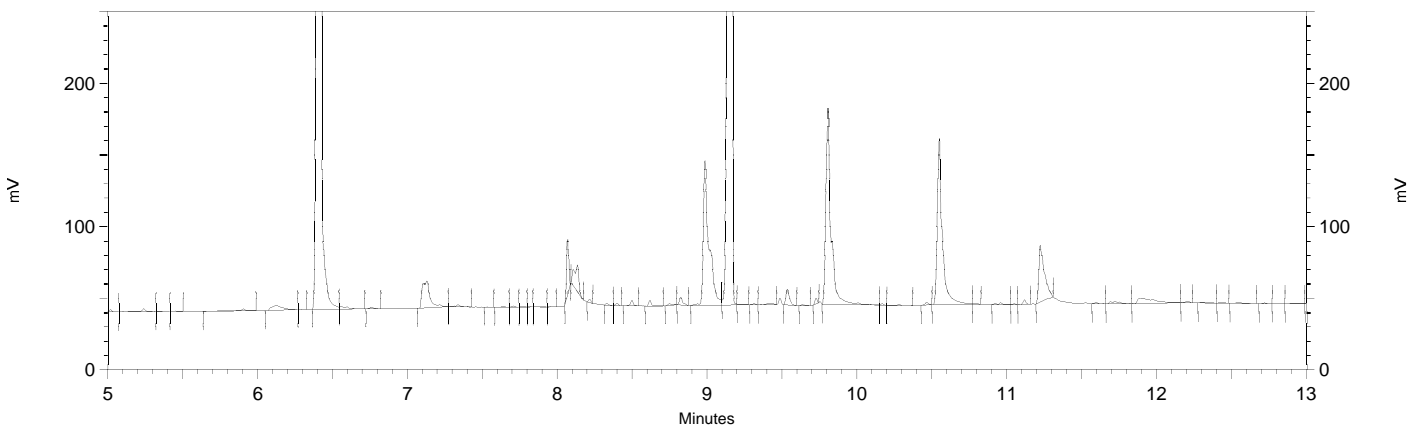
Sample Name: 309066-002,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 12:57:21 PM
Analysis Date: 4/29/2019 1:53:33 PM
Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-002,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 12:57:21 PM
 Analysis Date: 4/29/2019 1:52:29 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.422	2663155	53.754
Hexacosane	9.165	2324170	56.710



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

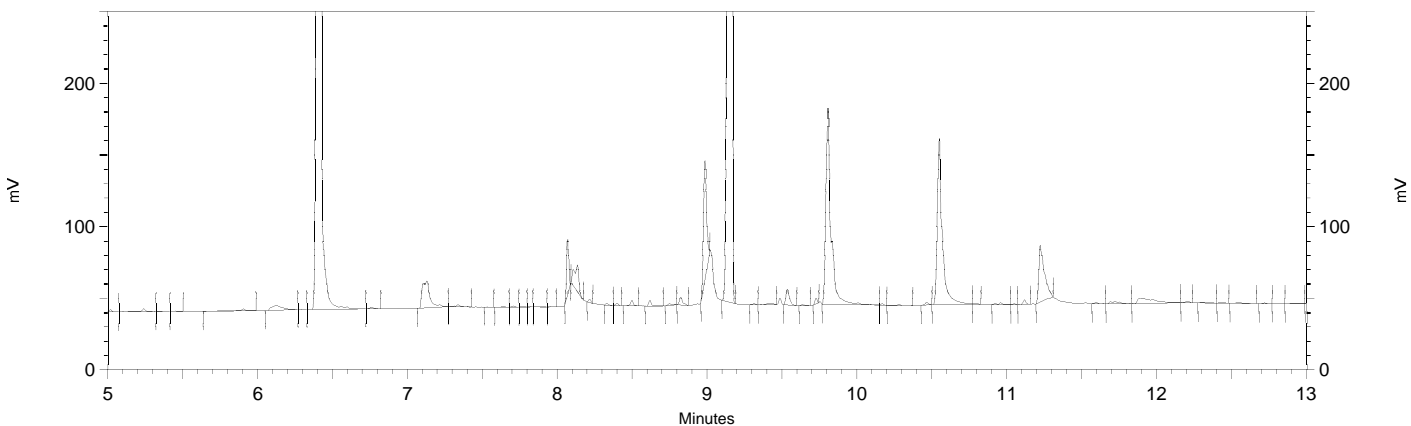
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.365	6.716	0
Yes	Split Peak	6.545	0	0
Yes	Manual Peak	8.888	9.279	0
Yes	Split Peak	9.099	0	0
Yes	Split Peak	9.2	0	0
Yes	Reassign Peak	9.205	9.148	0

Sample Name: 309066-002,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 12:57:21 PM
 Analysis Date: 4/29/2019 1:51:07 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.422	2670431	53.901
Hexacosane	9.165	2312488	56.425



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b013
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 309066-002 (S) Client ID : BR11-1GW02
 Seqnum : 229171804031.3 Matrix : Water Acct : TRC-SF (HEC)
 File : 119_031 Batch : 269931 Time : 29-APR-2019 21:10
 IDF : 1.0 Raw Units : mg/L Units : ug/L

540.00 mL --> 2.5 ml = 0.00463 ml/ml PDF

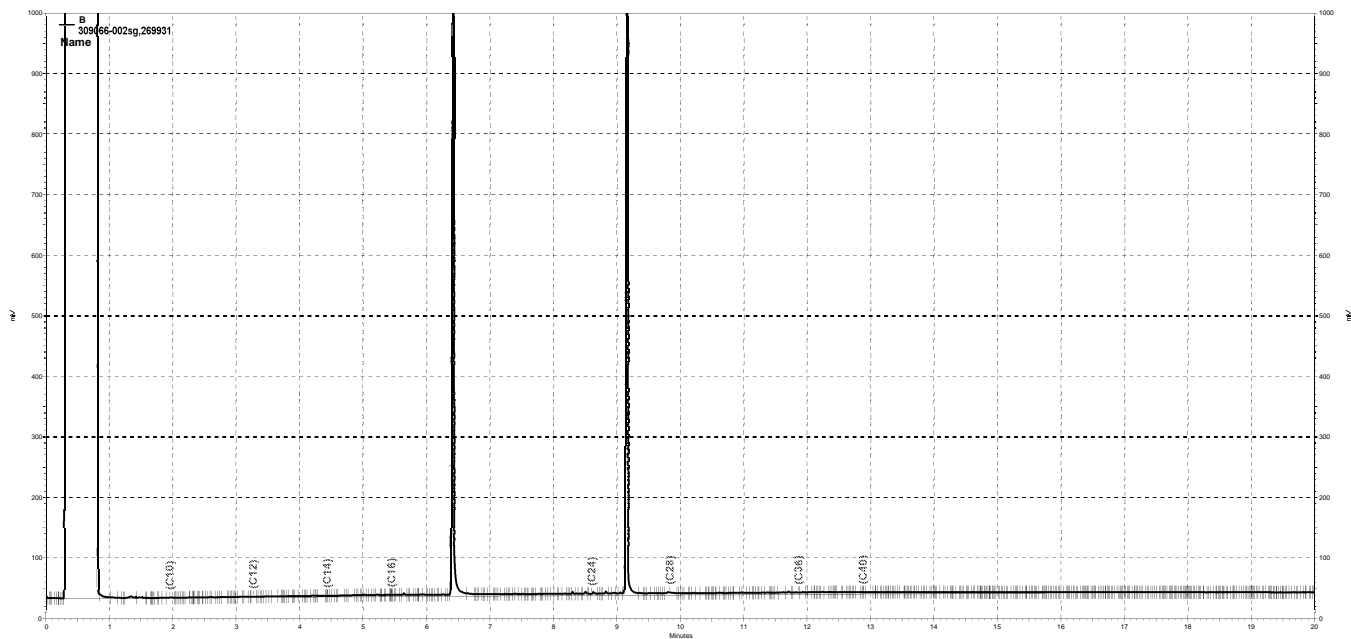
Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229137260002	23.93	110	46	21	Y u
Motor Oil C24-C36	B	229137260003	22.69	ND	280		u
Bunker C C12-C40	B	229121391002	77.62	360	280	70	Y u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229163216001	52.57	231.5	243.4	105	68-124	u

TKY 04/30/19 : Corrected automatically drawn baseline.

CRC: 04/30/19 EAH: 04/30/19 * TKM: 05/02/19

Y=does not resemble standard u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031, B

Sample Name: 309066-002sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 9:10:28 PM
 Analysis Date: 4/30/2019 8:24:58 AM
 Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	318839	8.565
DSL:10-14	161089	11.460
DSL:10-22	3389025	90.633
DSL:10-24	3524801	91.678
DSL:10-28	6145876	156.841
DSL:12-24	3485979	103.641
DSL:12-28	6107054	177.671
DSL:14-24	3381421	130.742
DSL:16-24	3231479	181.762
MO:22-32	2971611	104.411
MO:24-36	3013278	100.195
MO:28-40	608847	30.287
BUNKC:10-40	6692726	292.004
BUNKC:12-40	6653904	300.537

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

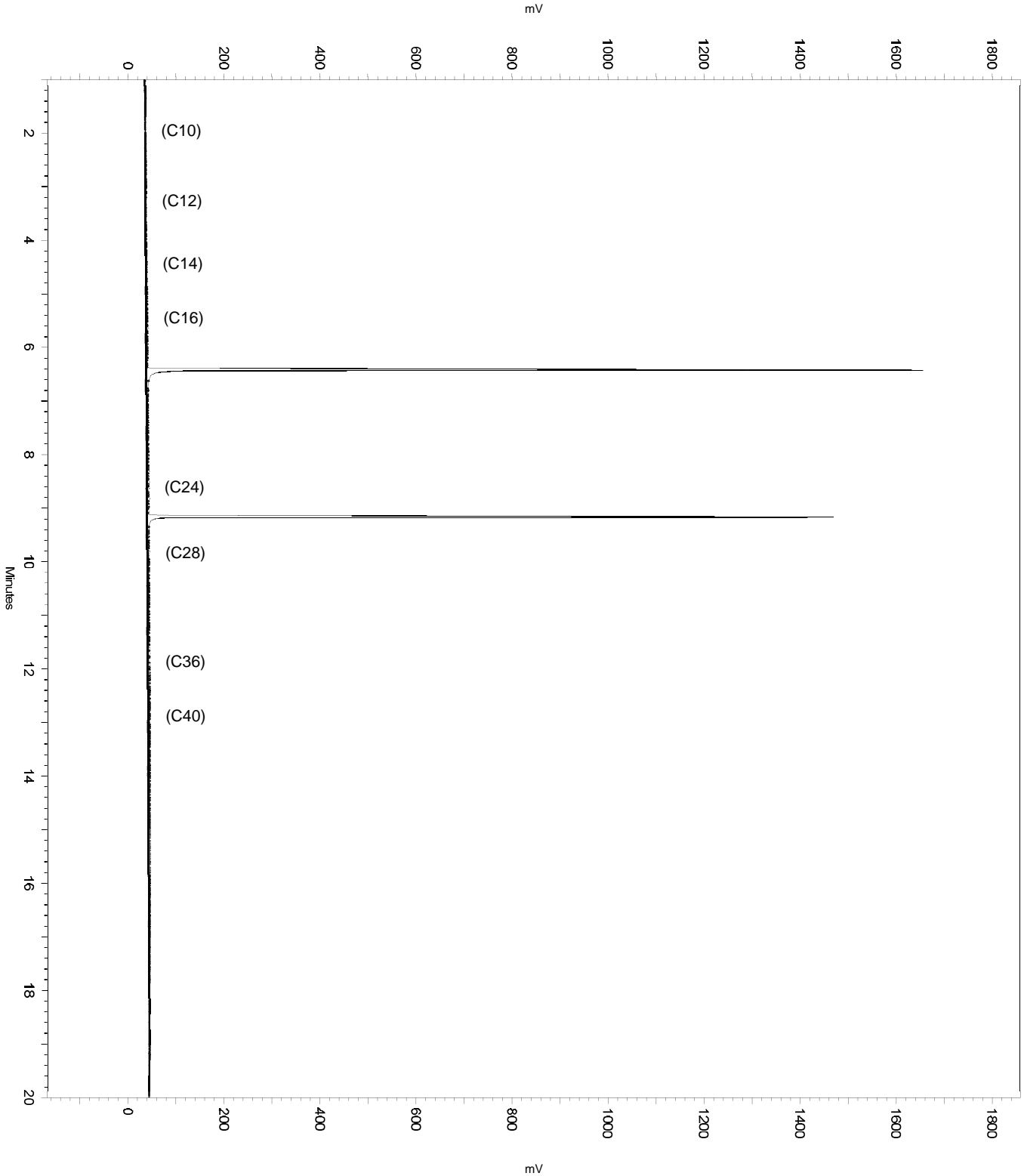
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.37	6.733	0
No	Split Peak	6.557	0	0
Yes	Move BL Stop	8.467	18.189	0
No	Manual Peak	9.104	9.315	0
No	Split Peak	9.276	0	0

Sample Name: 309066-002sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 9:10:28 PM
Analysis Date: 4/30/2019 8:24:58 AM
Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-002sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 9:10:28 PM
 Analysis Date: 4/30/2019 8:24:42 AM
 Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	140168	3.765
DSL:10-14	68610	4.881
DSL:10-22	2884238	77.133
DSL:10-24	2900695	75.445
DSL:10-28	5273431	134.576
DSL:12-24	2883952	85.742
DSL:12-28	5256688	152.932
DSL:14-24	2839709	109.797
DSL:16-24	2771603	155.895
MO:22-32	2403081	84.435
MO:24-36	2398751	79.761
MO:28-40	41032	2.041
BUNKC:10-40	5305042	231.459
BUNKC:12-40	5288299	238.856

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

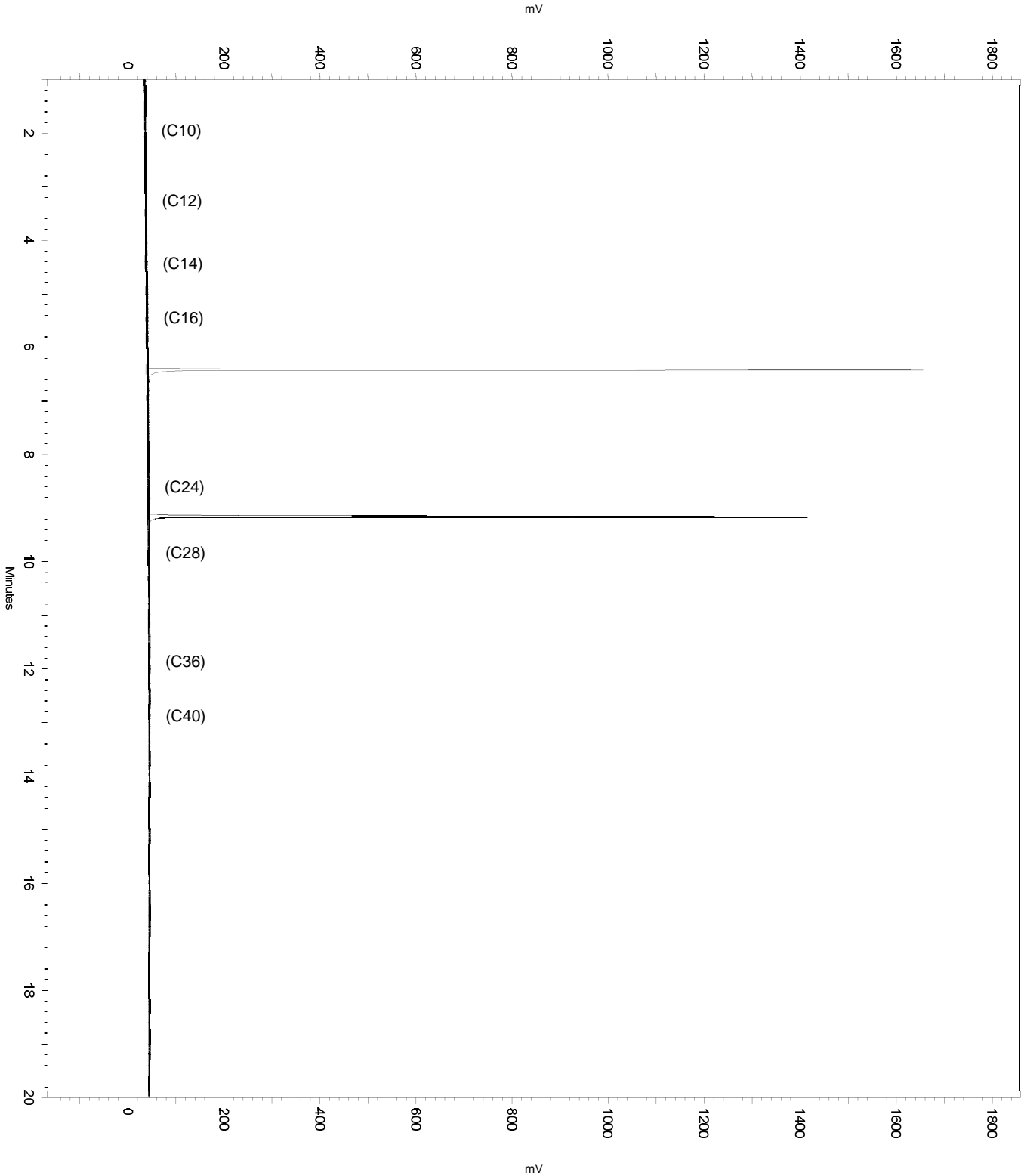
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.37	6.733	0
No	Split Peak	6.557	0	0
No	Manual Peak	9.104	9.315	0
No	Split Peak	9.276	0	0

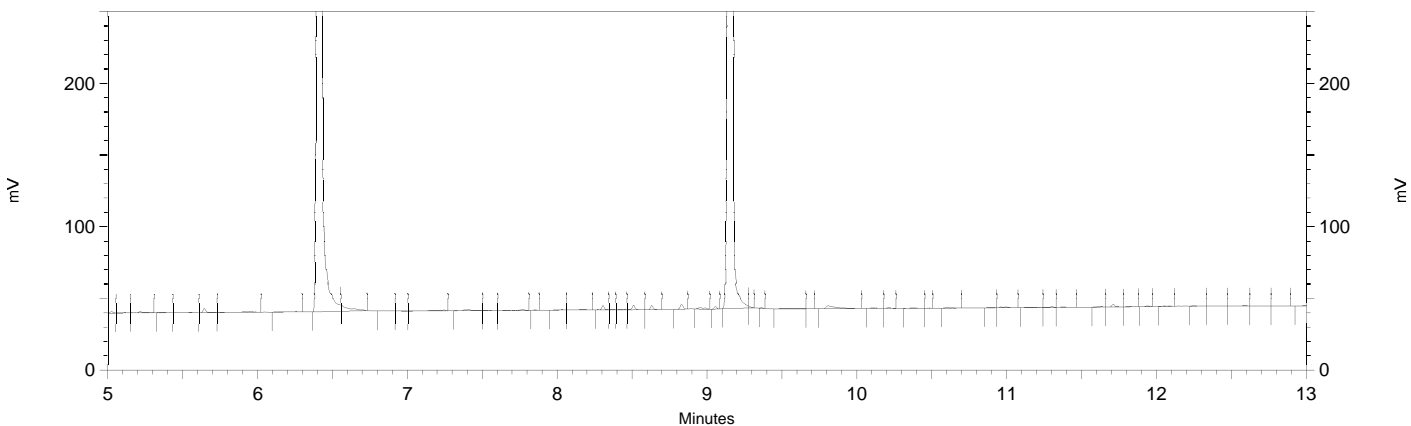
Sample Name: 309066-002sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 9:10:28 PM
Analysis Date: 4/30/2019 8:24:42 AM
Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-002sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 9:10:28 PM
 Analysis Date: 4/30/2019 8:09:43 AM
 Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.425	2604590	52.572
Hexacosane	9.167	2330862	56.874



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

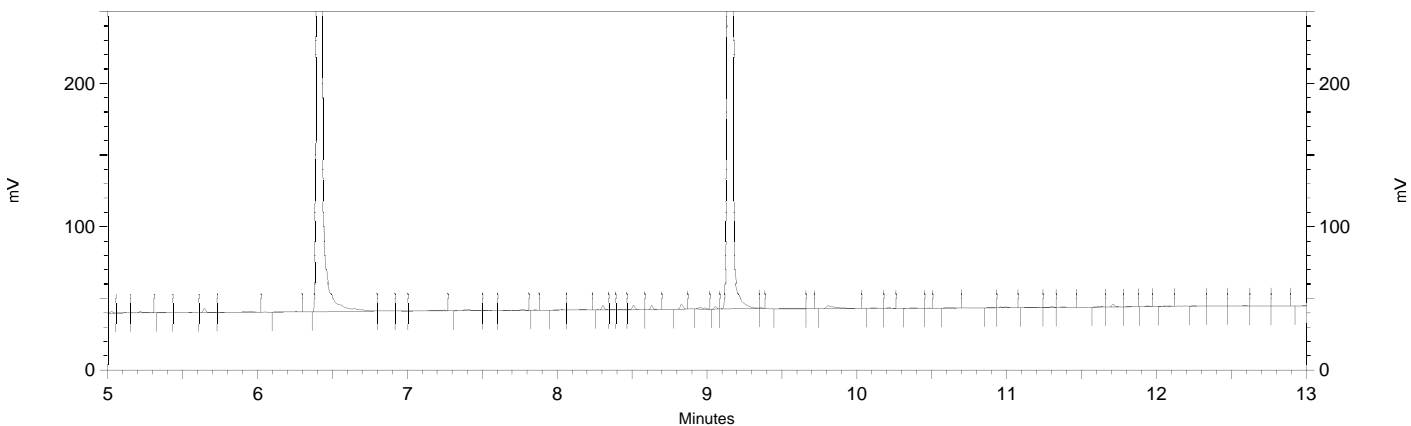
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.37	6.733	0
Yes	Split Peak	6.557	0	0
Yes	Manual Peak	9.104	9.315	0
Yes	Split Peak	9.276	0	0

Sample Name: 309066-002sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 9:10:28 PM
 Analysis Date: 4/30/2019 8:09:18 AM
 Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.425	2625116	52.986
Hexacosane	9.167	2336429	57.010



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b031
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 309066-003 (S) Client ID : BR11-1GW03
 Seqnum : 229171804032.3 Matrix : Water Acct : TRC-SF (HEC)
 File : 119_032 Batch : 269931 Time : 29-APR-2019 21:37
 IDF : 1.0 Raw Units : mg/L Units : ug/L

540.00 mL --> 2.5 ml = 0.00463 ml/ml PDF

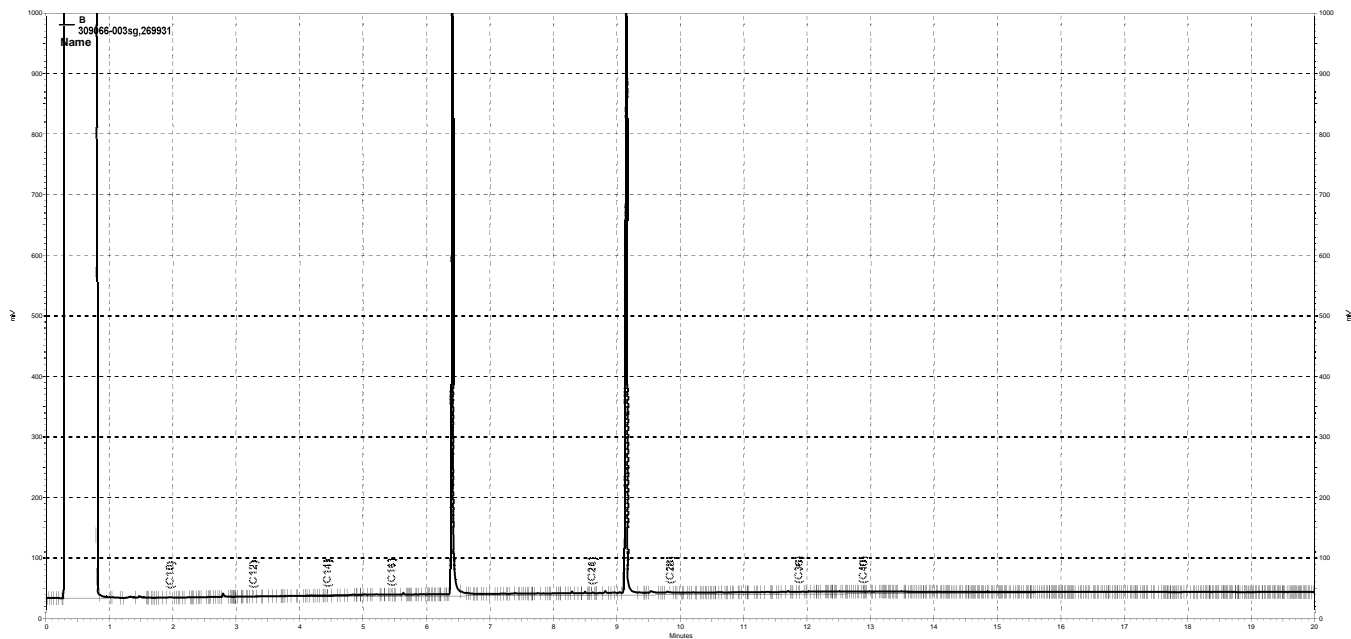
Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229137260002	22.81	110	46	21	Y u
Motor Oil C24-C36	B	229137260003	24.34	ND	280		u
Bunker C C12-C40	B	229121391002	79.59	370	280	70	Y u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229163216001	40.09	231.5	185.6	80	68-124	u

TKY 04/30/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 04/30/19 Reviewer: TKM Date: 05/02/19

Y=does not resemble standard u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032, B

Sample Name: 309066-003sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 9:37:46 PM
 Analysis Date: 4/30/2019 8:25:21 AM
 Instrument: GC14B Vial: 32 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	283077	7.604
DSL:10-14	132802	9.447
DSL:10-22	2729443	72.994
DSL:10-24	2862923	74.463
DSL:10-28	4966042	126.732
DSL:12-24	2829419	84.121
DSL:12-28	4932538	143.501
DSL:14-24	2747743	106.241
DSL:16-24	2606436	146.605
MO:22-32	2460705	86.459
MO:24-36	2528382	84.071
MO:28-40	664340	33.047
BUNKC:10-40	5578071	243.372
BUNKC:12-40	5544567	250.431

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

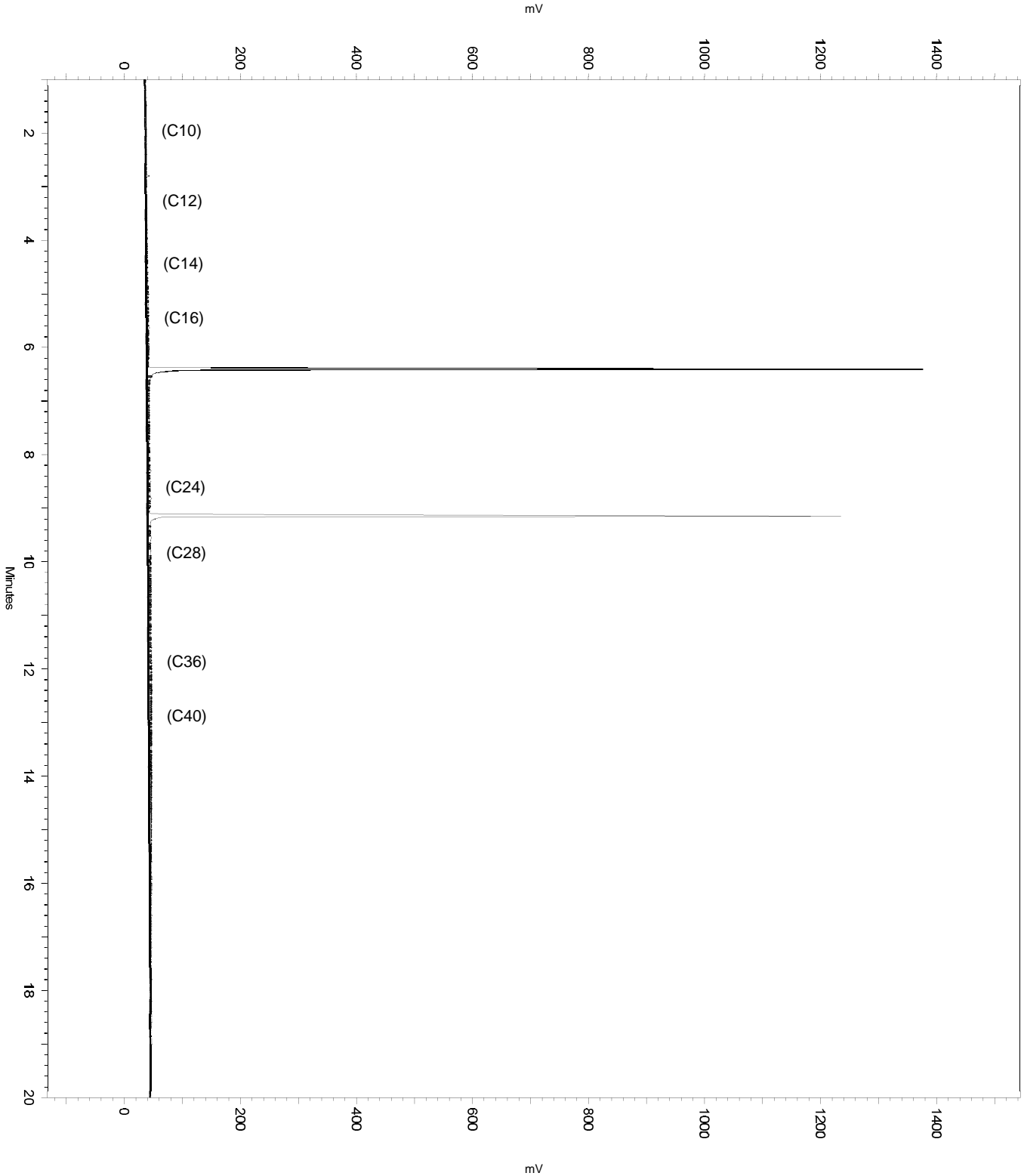
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	2.765	18.166	0
No	Manual Peak	6.361	6.741	0
No	Split Peak	6.543	0	0
No	Manual Peak	9.09	9.312	0
No	Split Peak	9.241	0	0

Sample Name: 309066-003sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 9:37:46 PM
Analysis Date: 4/30/2019 8:25:21 AM
Instrument: GC14B Vial: 32 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-003sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 9:37:46 PM
 Analysis Date: 4/30/2019 8:25:06 AM
 Instrument: GC14B Vial: 32 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	43136	1.159
DSL:10-14	31774	2.260
DSL:10-22	2086331	55.795
DSL:10-24	2100411	54.630
DSL:10-28	3947758	100.745
DSL:12-24	2078609	61.799
DSL:12-28	3925956	114.217
DSL:14-24	2069476	80.016
DSL:16-24	2059150	115.821
MO:22-32	1875123	65.884
MO:24-36	1905284	63.353
MO:28-40	132286	6.581
BUNKC:10-40	4073398	177.723
BUNKC:12-40	4051596	182.998

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

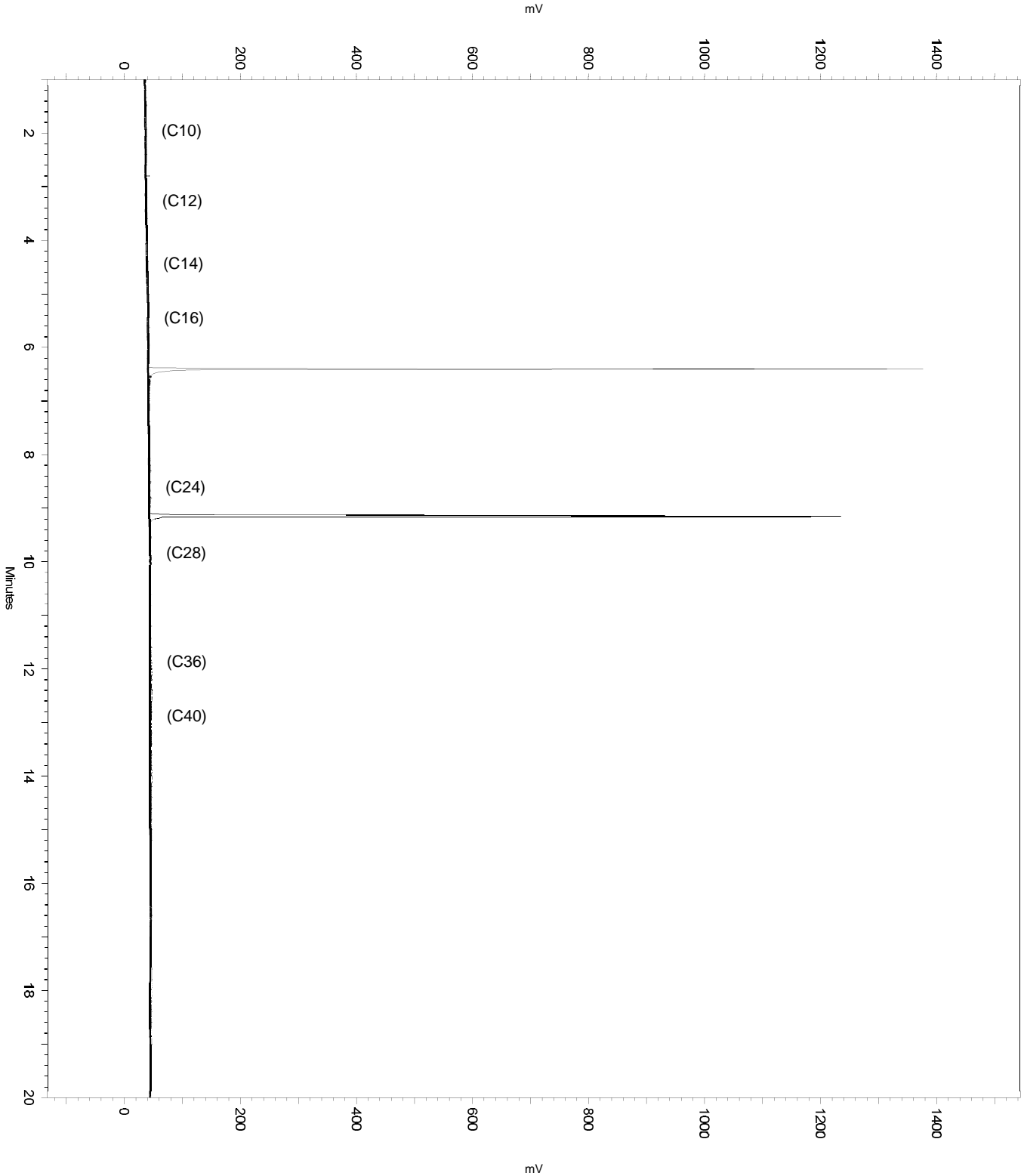
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.361	6.741	0
No	Split Peak	6.543	0	0
No	Manual Peak	9.09	9.312	0
No	Split Peak	9.241	0	0

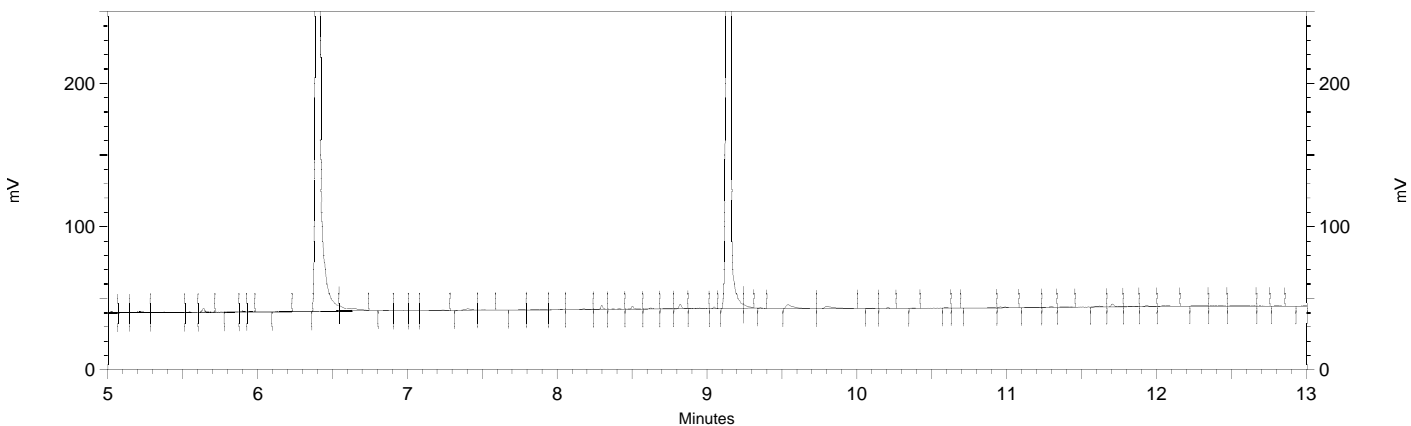
Sample Name: 309066-003sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 9:37:46 PM
Analysis Date: 4/30/2019 8:25:06 AM
Instrument: GC14B Vial: 32 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-003sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 9:37:46 PM
 Analysis Date: 4/30/2019 8:10:14 AM
 Instrument: GC14B Vial: 32 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.410	1986077	40.087
Hexacosane	9.153	1796347	43.831



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

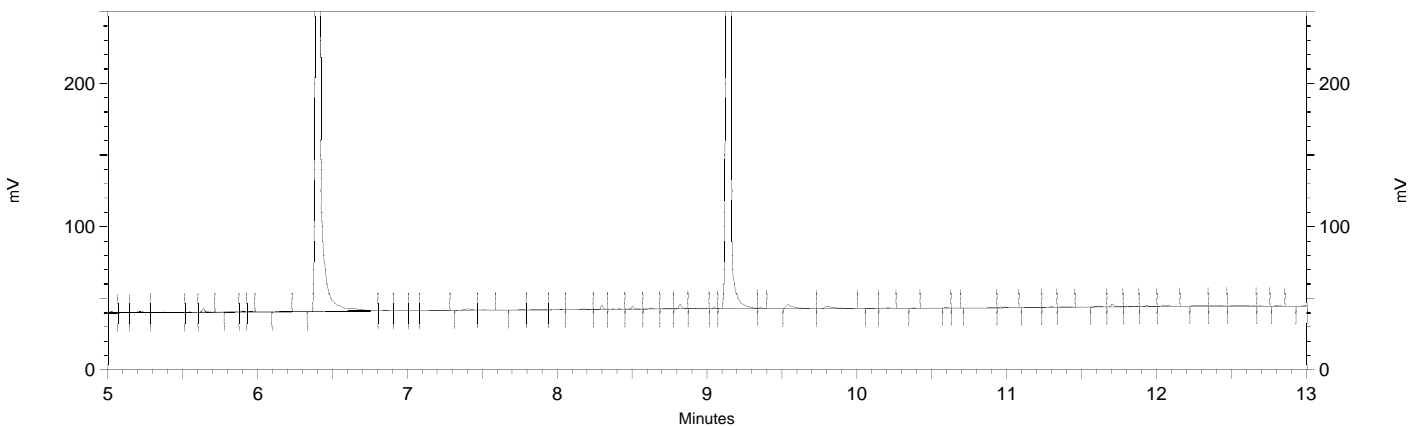
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.361	6.741	0
Yes	Split Peak	6.543	0	0
Yes	Manual Peak	9.09	9.312	0
Yes	Split Peak	9.241	0	0

Sample Name: 309066-003sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 9:37:46 PM
 Analysis Date: 4/30/2019 8:09:51 AM
 Instrument: GC14B Vial: 32 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.410	2008022	40.530
Hexacosane	9.153	1802974	43.993



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b032
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 309066-003 Client ID : BR11-1GW03
 Seqnum : 229174702015 Matrix : Water Acct : TRC-SF (HEC)
 File : 121_015 Batch : 269931 Time : 01-MAY-2019 14:13
 IDF : 1.0 Raw Units : mg/L Units : ug/L

540.00 mL --> 2.5 ml = 0.00463 ml/ml PDF

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229137260002	47.11	220	46		Y u
Motor Oil C24-C36	B	229137260003	18.04	ND	280		u
Bunker C C12-C40	B	229121391002	67.93	310	280	28	Y u

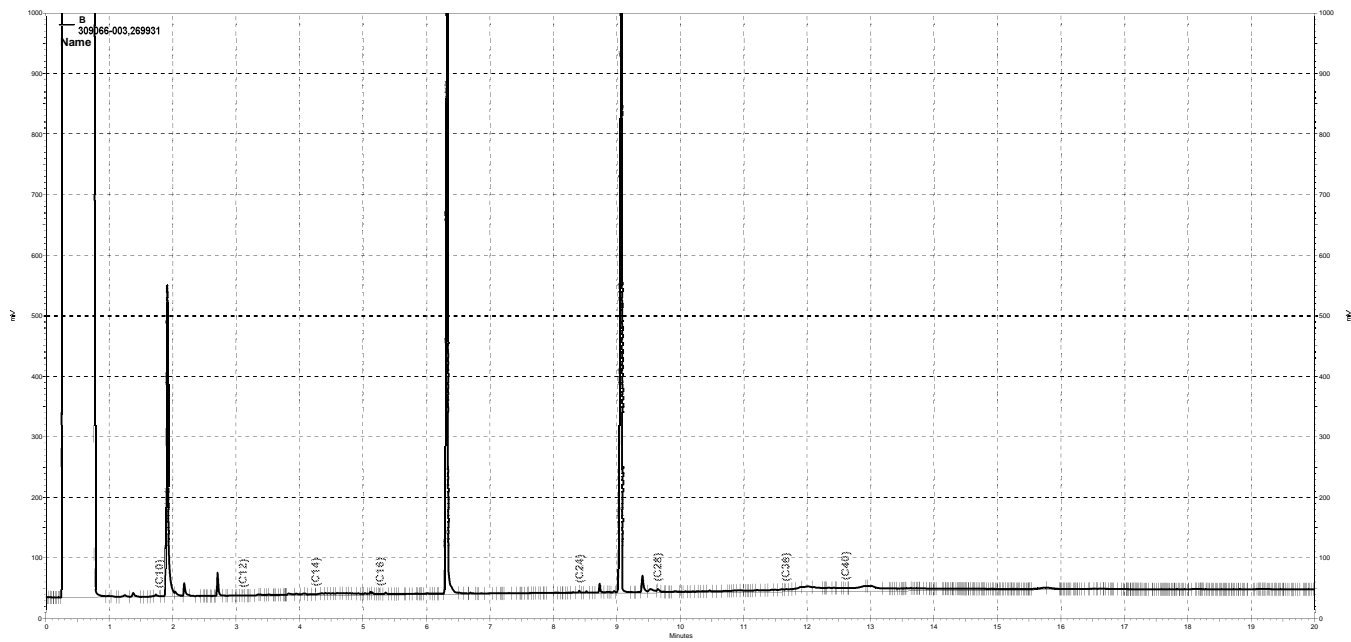
Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229163216001	58.96	231.5	273.0	118	68-124	u

CRC 05/01/19 : Corrected automatically drawn baseline.

CRC 05/02/19 : Bunker C in NSG is lower than SG run, RR for both NSG and SG confirms.

Analyst: CRC Date: 05/02/19 Reviewer: TKM Date: 05/02/19

Y=does not resemble standard u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b015, B

Sample Name: 309066-003,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 2:13:47 PM
 Analysis Date: 5/1/2019 3:05:02 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1514387	40.680
DSL:10-14	1339646	95.301
DSL:10-22	4670511	124.904
DSL:10-24	4732369	123.085
DSL:10-28	7445538	190.007
DSL:12-24	3542487	105.321
DSL:12-28	6255656	181.994
DSL:14-24	3412447	131.942
DSL:16-24	3233079	181.852
MO:22-32	2907535	102.159
MO:24-36	3019887	100.414
MO:28-40	671323	33.395
BUNKC:10-40	8092167	353.062
BUNKC:12-40	6902285	311.755

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

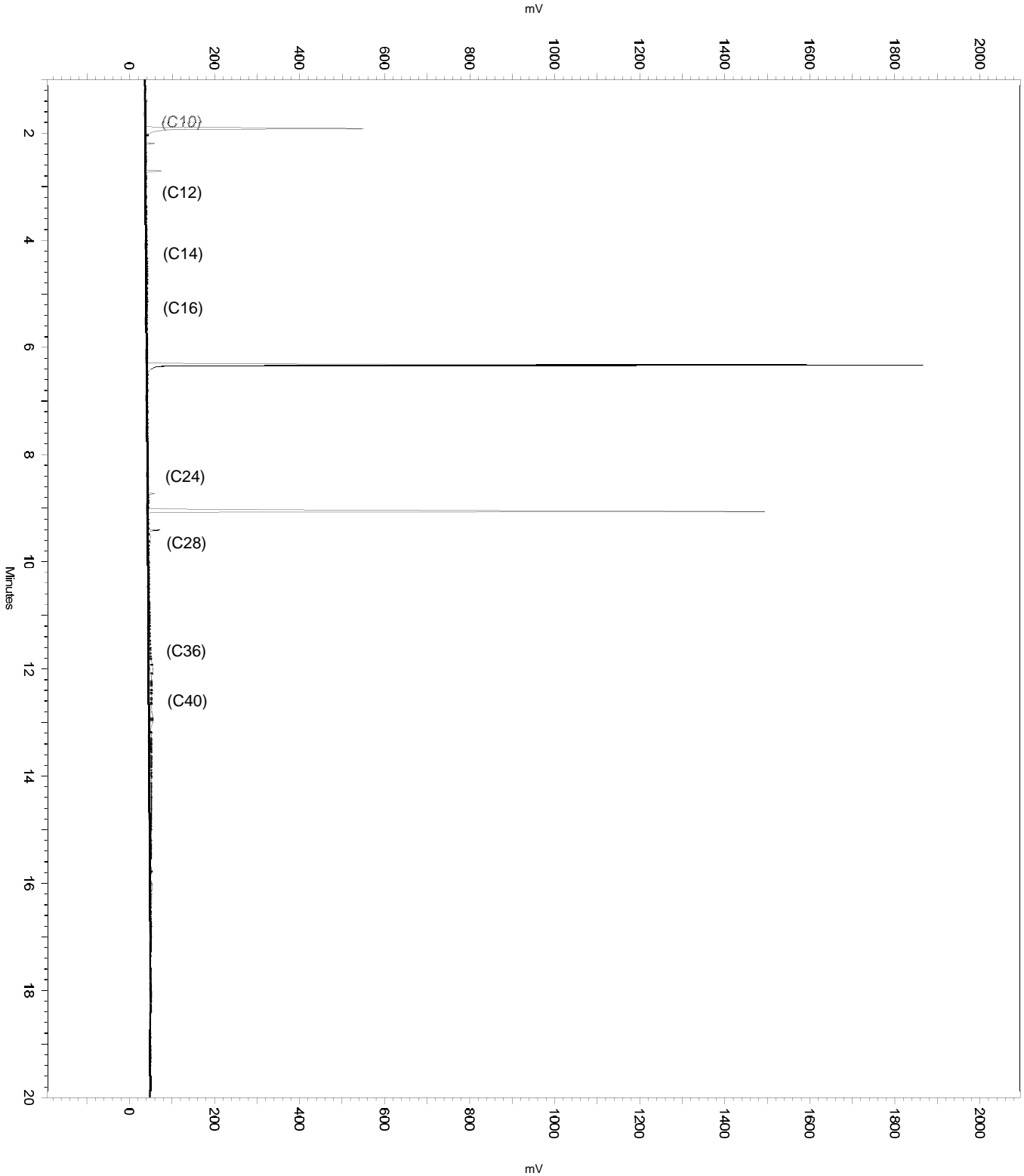
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.272	6.649	0
No	Split Peak	6.504	0	0
Yes	Move BL Stop	8.19	17.104	0
No	Manual Peak	8.988	9.213	0
No	Split Peak	9.146	0	0

Sample Name: 309066-003,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b015
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 2:13:47 PM
Analysis Date: 5/1/2019 3:05:02 PM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-003,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 2:13:47 PM
 Analysis Date: 5/1/2019 3:04:45 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1446174	38.847
DSL:10-14	1302721	92.675
DSL:10-22	4481192	119.841
DSL:10-24	4499186	117.021
DSL:10-28	7117874	181.646
DSL:12-24	3318983	98.676
DSL:12-28	5937671	172.743
DSL:14-24	3212619	124.215
DSL:16-24	3063428	172.309
MO:22-32	2661303	93.508
MO:24-36	2692491	89.528
MO:28-40	261060	12.986
BUNKC:10-40	7364407	321.309
BUNKC:12-40	6184204	279.322

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

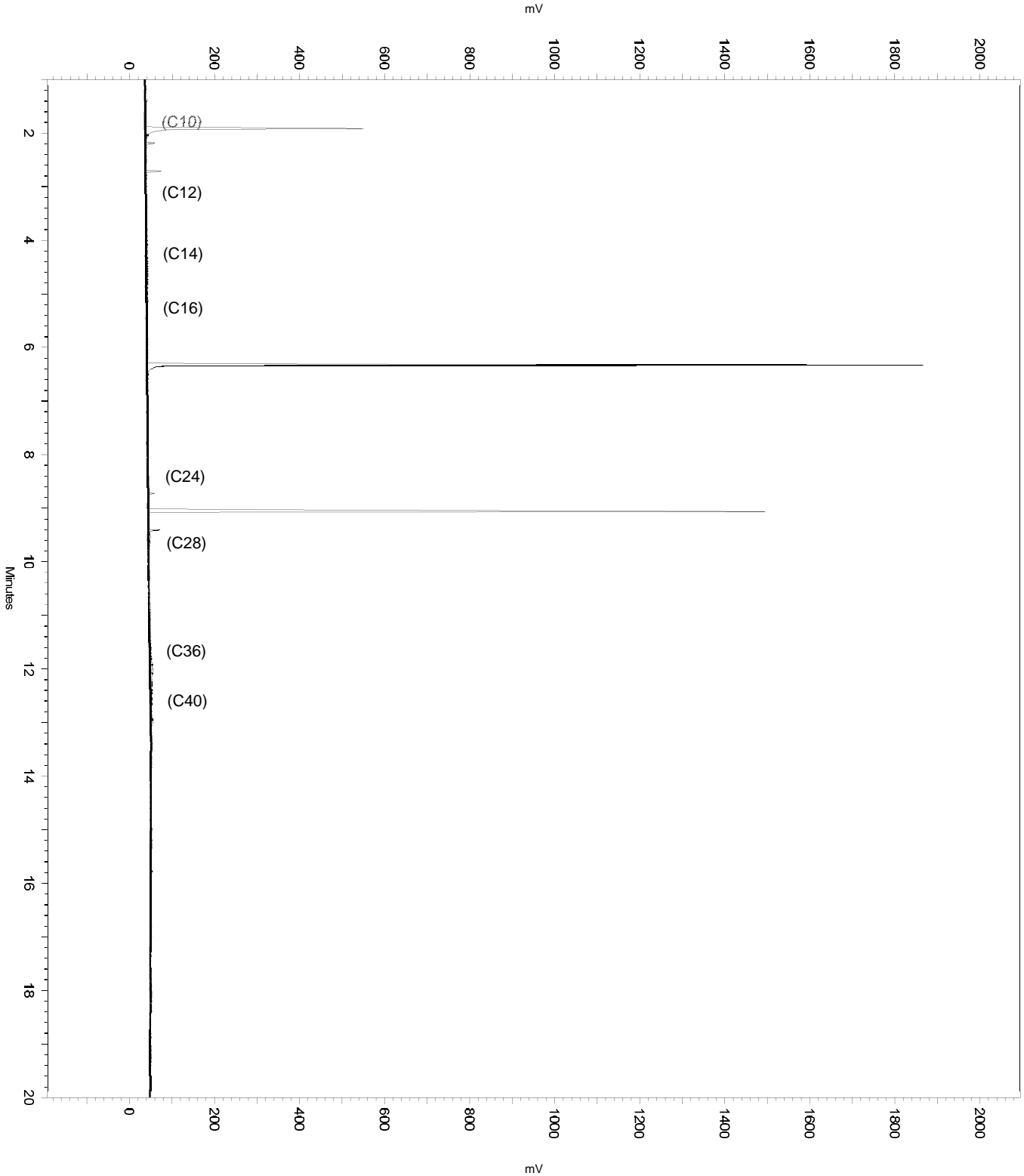
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.272	6.649	0
No	Split Peak	6.504	0	0
No	Manual Peak	8.988	9.213	0
No	Split Peak	9.146	0	0

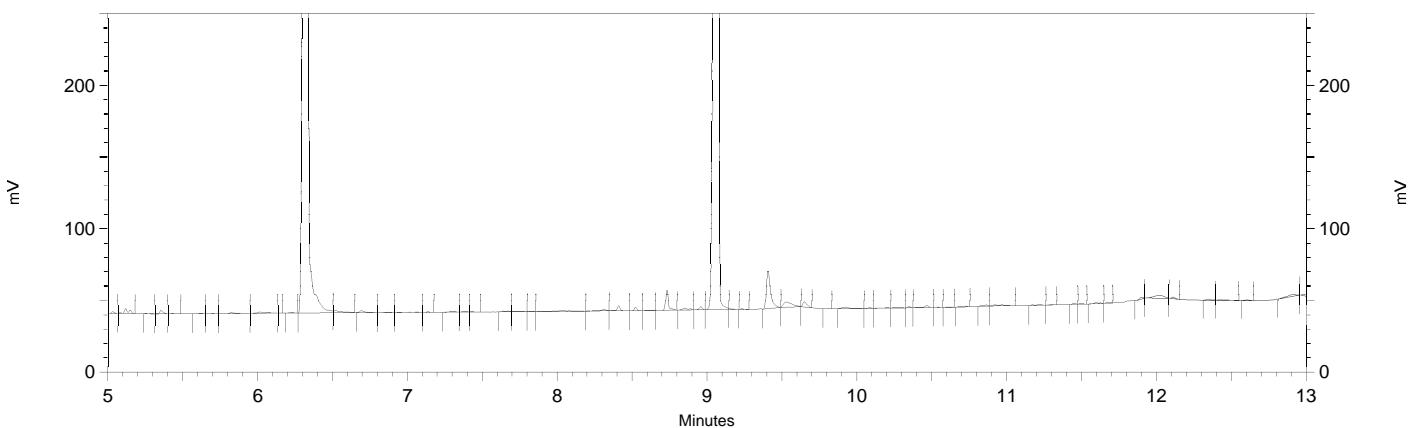
Sample Name: 309066-003,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b015
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 2:13:47 PM
Analysis Date: 5/1/2019 3:04:45 PM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-003,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 2:13:47 PM
 Analysis Date: 5/1/2019 3:01:16 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.332	2921064	58.959
Hexacosane	9.072	2477288	60.447



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

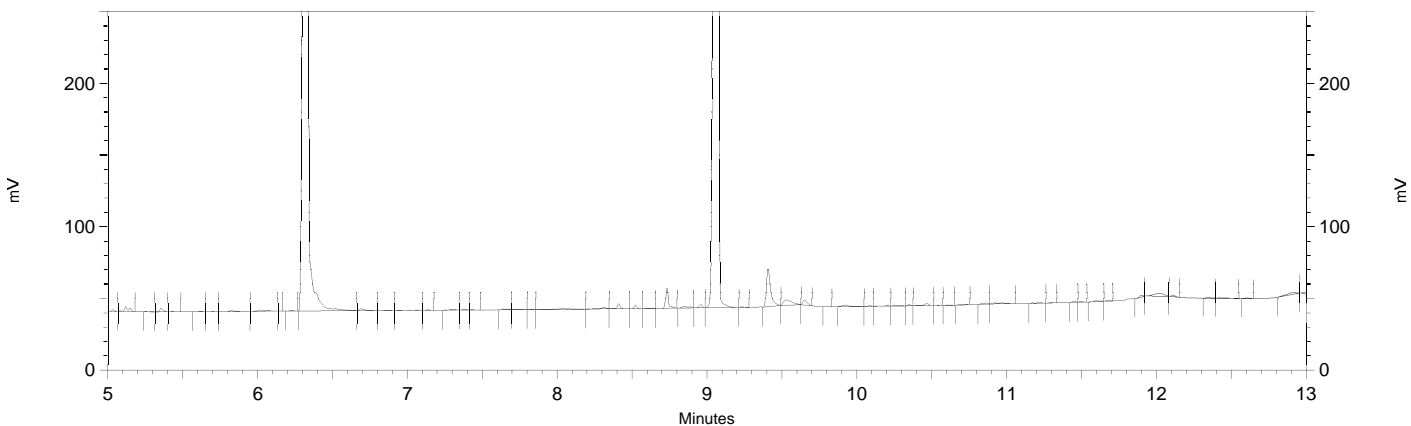
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.272	6.649	0
Yes	Split Peak	6.504	0	0
Yes	Manual Peak	8.988	9.213	0
Yes	Split Peak	9.146	0	0

Sample Name: 309066-003,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b015
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 2:13:47 PM
 Analysis Date: 5/1/2019 2:59:55 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.332	2926745	59.074
Hexacosane	9.072	2478407	60.474



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off     0          2          0
Yes Valley to Valley    0          20         0
Yes Shoulder Sensitivity 0          20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b015
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 309066-004 Client ID : DUP04182019-01
 Seqnum : 229171804015.1 Matrix : Water Acct : TRC-SF (HEC)
 File : 119_015 Batch : 269931 Time : 29-APR-2019 13:52
 IDF : 1.0 Raw Units : mg/L Units : ug/L

520.00 mL --> 2.5 ml = 0.004808 ml/ml PDF

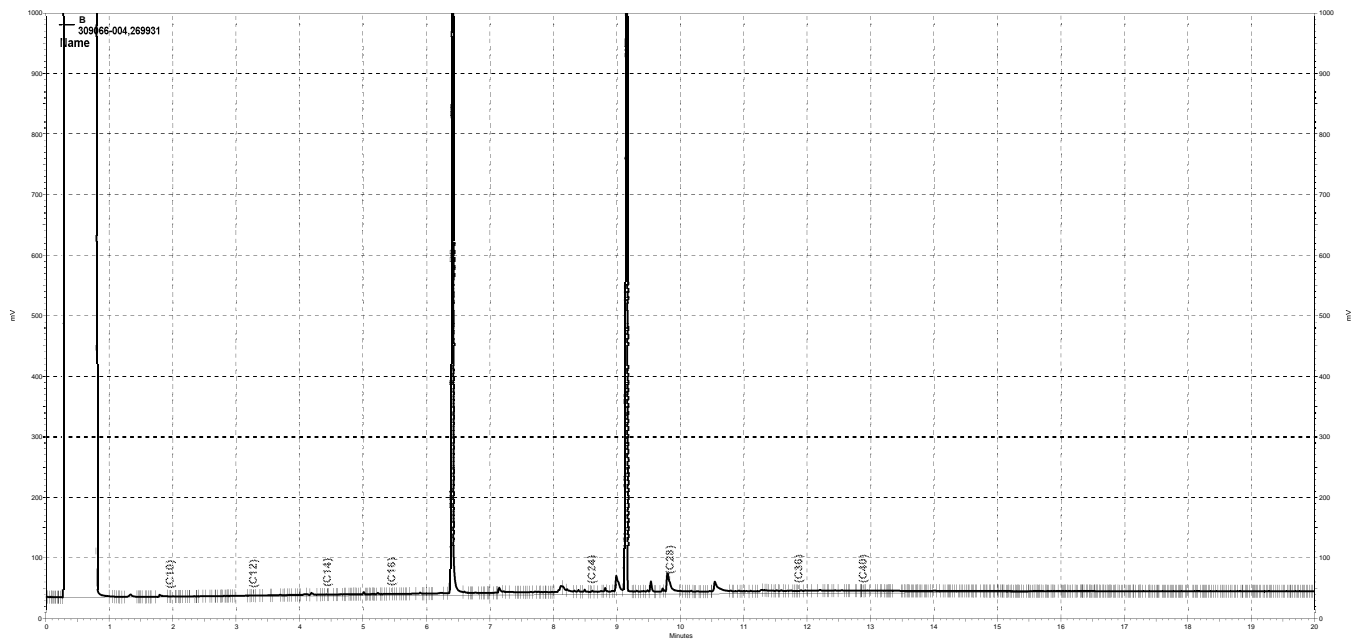
Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229137260002	30.99	150	48		Y u
Motor Oil C24-C36	B	229137260003	41.20	ND	290		u
Bunker C C12-C40	B	229121391002	117.8	570	290	28	Y u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229163216001	53.16	240.4	255.6	106	68-124	u

TKY 04/29/19 : Corrected automatically drawn baseline.

TKY: 04/29/19 * CRC: 04/30/19 EAH: 04/30/19 * TKM: 05/02/19

Y=does not resemble standard u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b015, B

Sample Name: 309066-004,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 1:52:05 PM
 Analysis Date: 4/29/2019 2:38:56 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	349380	9.385
DSL:10-14	184193	13.103
DSL:10-22	3563958	95.311
DSL:10-24	3825408	99.496
DSL:10-28	6749526	172.245
DSL:12-24	3789994	112.680
DSL:12-28	6714112	195.332
DSL:14-24	3656858	141.392
DSL:16-24	3497608	196.731
MO:22-32	3530440	124.046
MO:24-36	3533639	117.497
MO:28-40	1014000	50.441
BUNKC:10-40	7570747	330.312
BUNKC:12-40	7535333	340.348

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

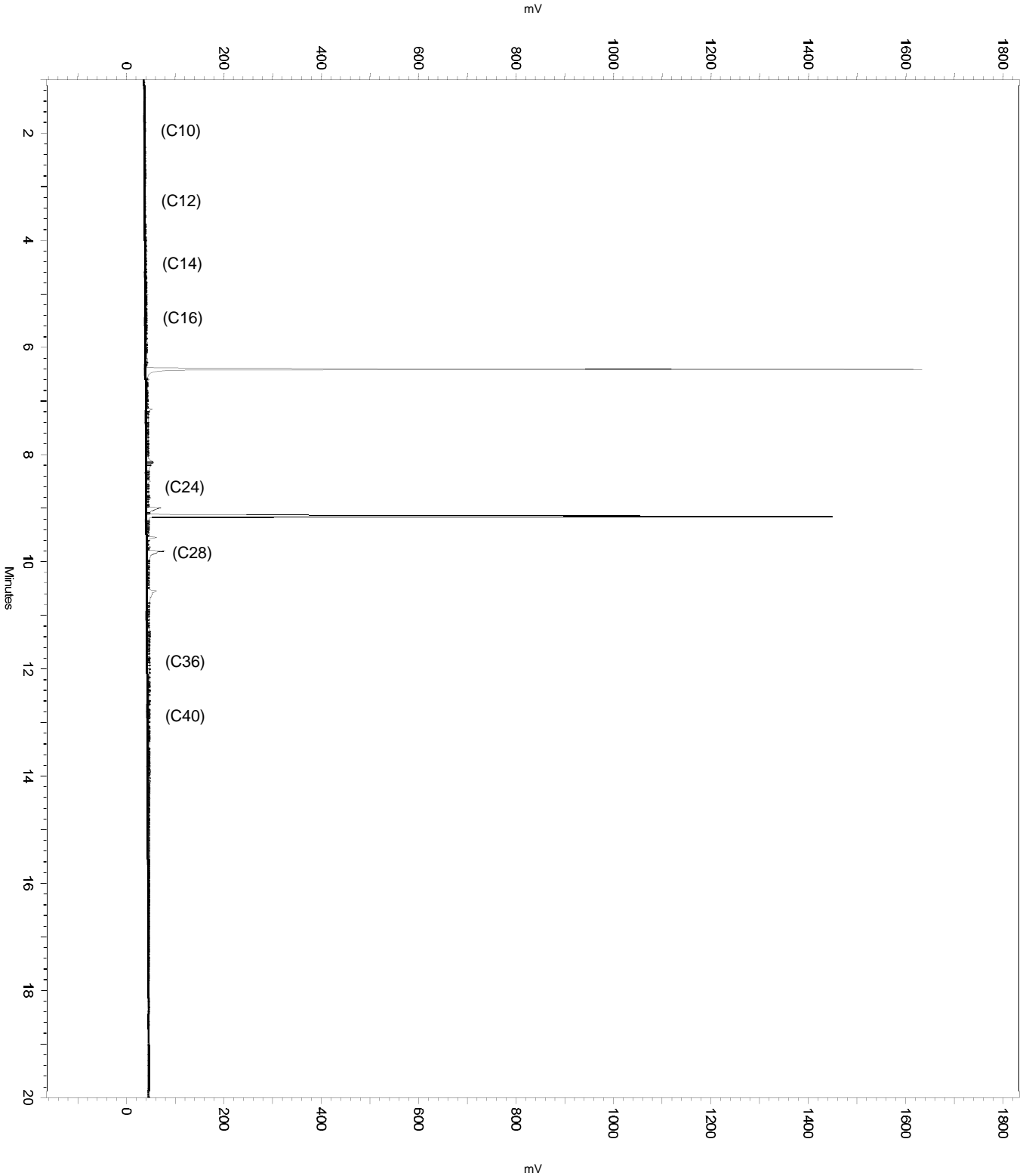
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	2.232	18.344	0
No	Manual Peak	6.357	6.631	0
No	Split Peak	6.507	0	0
No	Manual Peak	8.964	9.191	0
No	Split Peak	9.094	0	0

Sample Name: 309066-004,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 1:52:05 PM
Analysis Date: 4/29/2019 2:38:56 PM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-004,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 1:52:05 PM
 Analysis Date: 4/29/2019 2:38:40 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	68370	1.837
DSL:10-14	37615	2.676
DSL:10-22	2810433	75.160
DSL:10-24	2927590	76.144
DSL:10-28	5569451	142.130
DSL:12-24	2918638	86.774
DSL:12-28	5560499	161.770
DSL:14-24	2892346	111.832
DSL:16-24	2861288	160.939
MO:22-32	2894341	101.696
MO:24-36	2859547	95.083
MO:28-40	410122	20.401
BUNKC:10-40	5847044	255.107
BUNKC:12-40	5838092	263.689

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

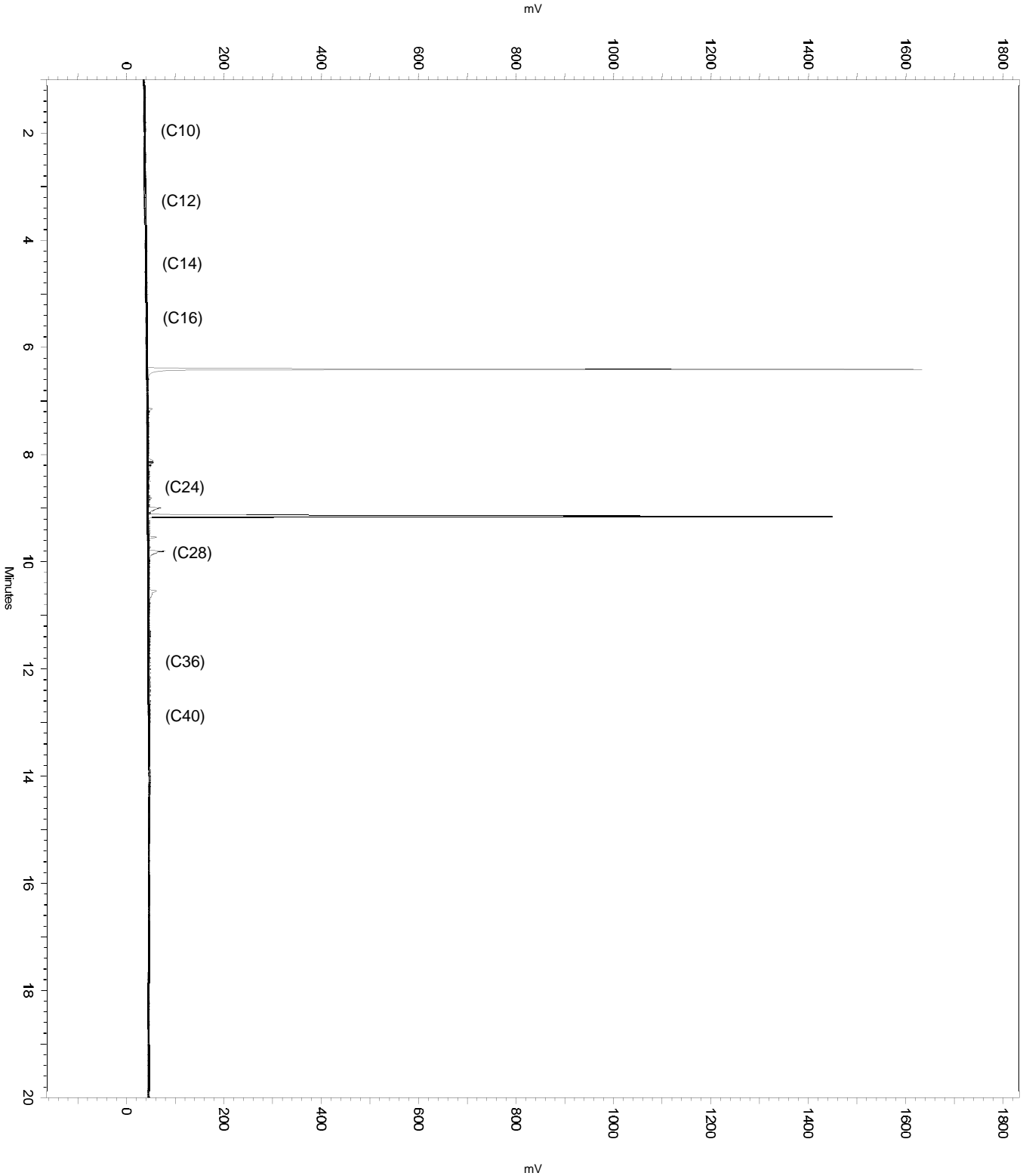
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.357	6.631	0
No	Split Peak	6.507	0	0
No	Manual Peak	8.964	9.191	0
No	Split Peak	9.094	0	0

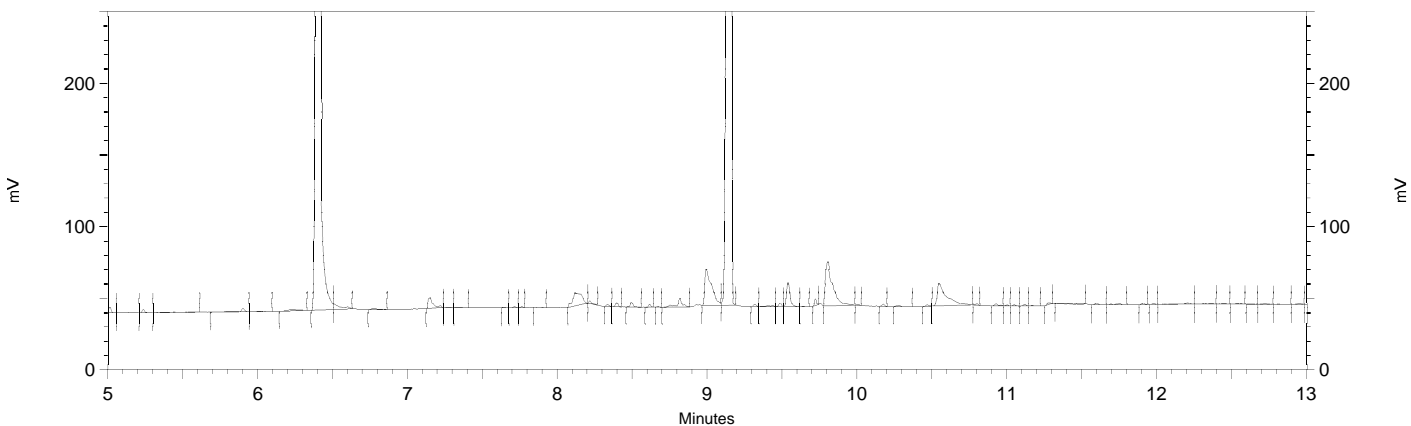
Sample Name: 309066-004,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 1:52:05 PM
Analysis Date: 4/29/2019 2:38:40 PM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-004,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 1:52:05 PM
 Analysis Date: 4/29/2019 2:38:22 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.417	2633815	53.161
Hexacosane	9.158	2294482	55.986



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

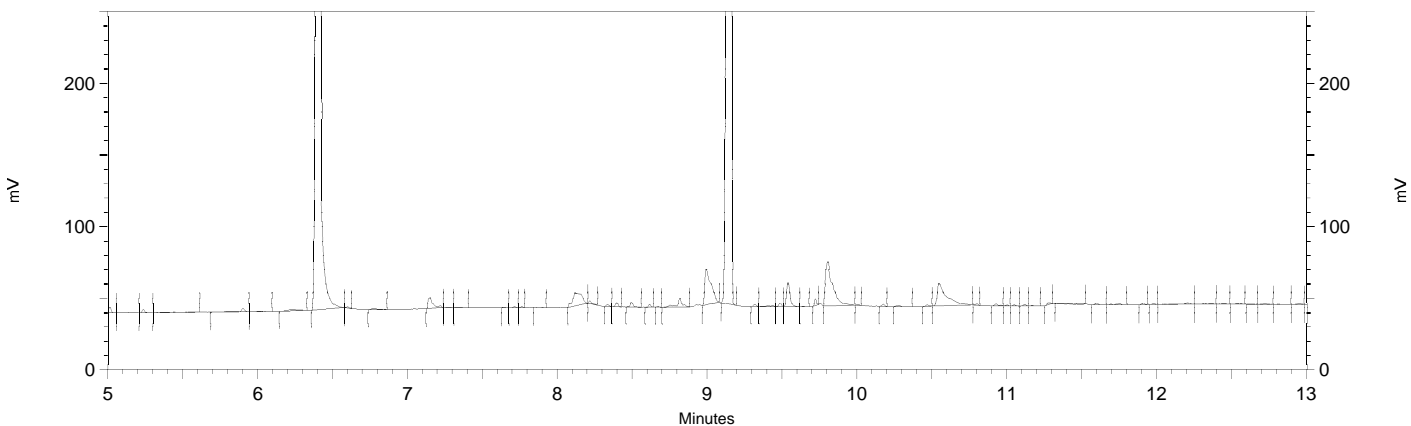
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.357	6.631	0
Yes	Split Peak	6.507	0	0
Yes	Manual Peak	8.964	9.191	0
Yes	Split Peak	9.094	0	0

Sample Name: 309066-004,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 1:52:05 PM
 Analysis Date: 4/29/2019 2:37:55 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.417	2637271	53.231
Hexacosane	9.158	2288797	55.847



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SAMPLE USER REPORT FOR EPA 8015B

Inst : GC14B Lab ID : 309066-004 (S) Client ID : DUP04182019-01
 Seqnum : 229171804033.3 Matrix : Water Acct : TRC-SF (HEC)
 File : 119_033 Batch : 269931 Time : 29-APR-2019 22:05
 IDF : 1.0 Raw Units : mg/L Units : ug/L

520.00 mL --> 2.5 ml = 0.004808 ml/ml PDF

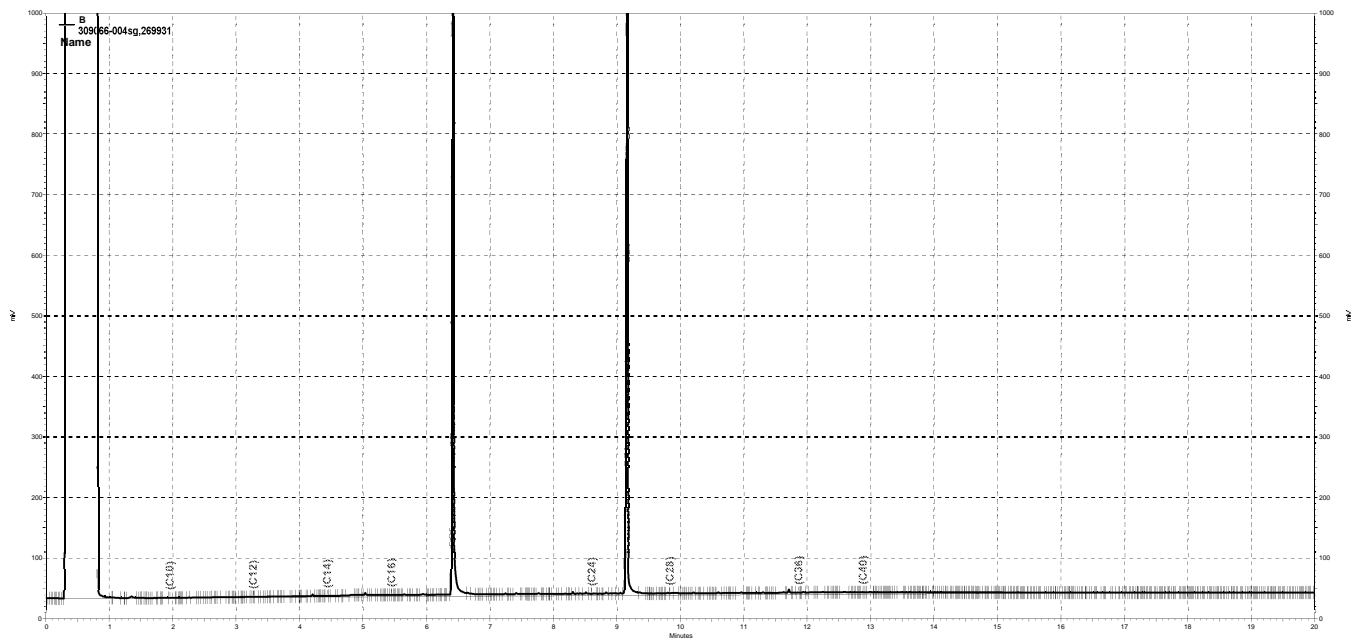
Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	229137260002	24.30	120	48	21	Y u
Motor Oil C24-C36	B	229137260003	22.02	ND	290		u
Bunker C C12-C40	B	229121391002	78.70	380	290	70	Y u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229163216001	40.02	240.4	192.4	80	68-124	u

TKY 04/30/19 : Corrected automatically drawn baseline.

CRC: 04/30/19 EAH: 04/30/19 * TKM: 05/02/19

Y=does not resemble standard u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033, B

Sample Name: 309066-004sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 10:05:06 PM
 Analysis Date: 4/30/2019 8:27:30 AM
 Instrument: GC14B Vial: 33 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	301056	8.087
DSL:10-14	138771	9.872
DSL:10-22	2775615	74.228
DSL:10-24	2917366	75.879
DSL:10-28	4972943	126.908
DSL:12-24	2887526	85.849
DSL:12-28	4943103	143.809
DSL:14-24	2792490	107.971
DSL:16-24	2641379	148.570
MO:22-32	2431291	85.426
MO:24-36	2465702	81.987
MO:28-40	617576	30.721
BUNKC:10-40	5558564	242.520
BUNKC:12-40	5528724	249.716

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

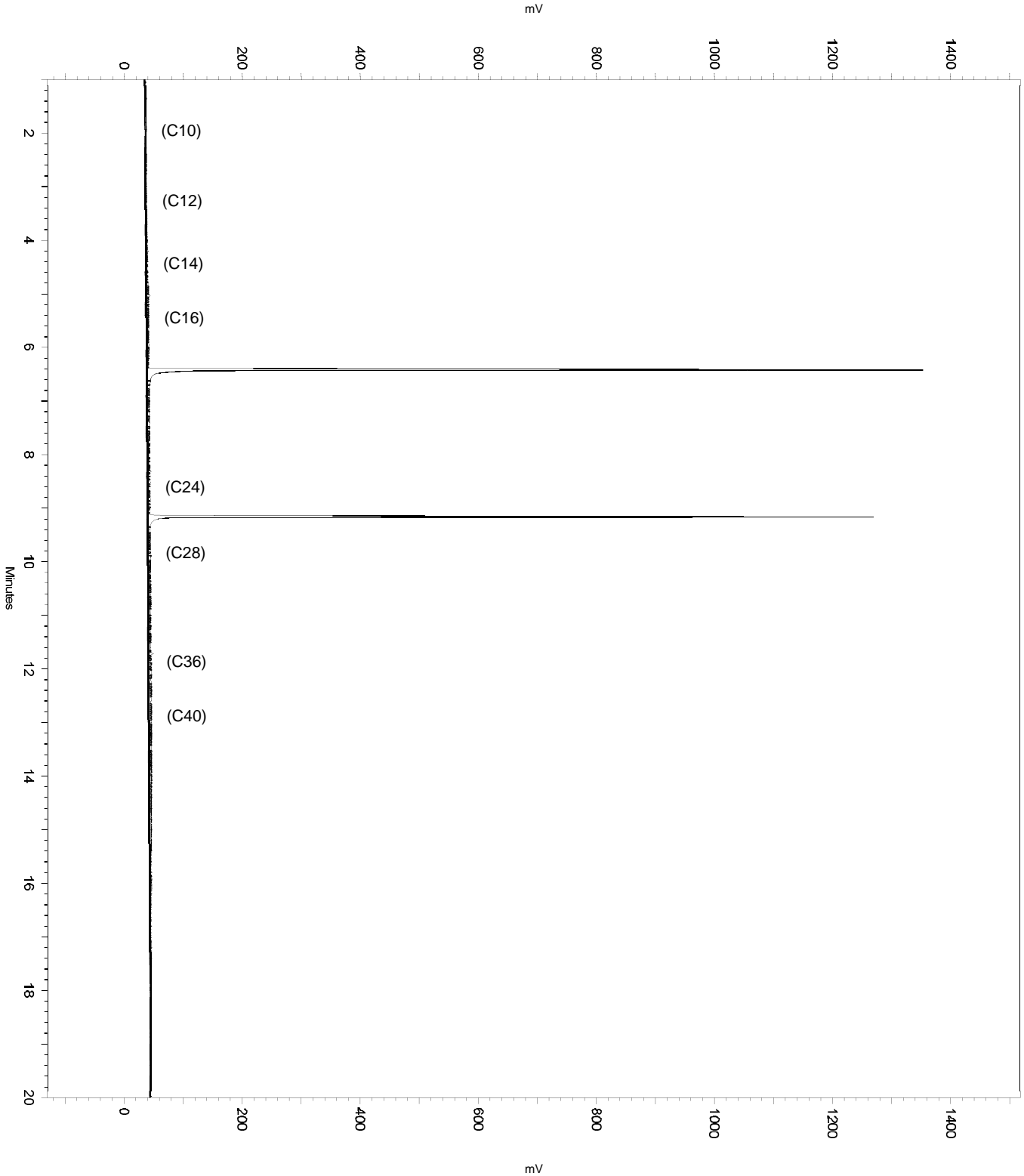
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	2.215	17.912	0
No	Manual Peak	6.374	6.698	0
No	Split Peak	6.554	0	0
No	Manual Peak	9.102	9.41	0
No	Split Peak	9.337	0	0

Sample Name: 309066-004sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 10:05:06 PM
Analysis Date: 4/30/2019 8:27:30 AM
Instrument: GC14B Vial: 33 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: 309066-004sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 10:05:06 PM
 Analysis Date: 4/30/2019 8:25:30 AM
 Instrument: GC14B Vial: 33 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	33009	0.887
DSL:10-14	19840	1.411
DSL:10-22	2100840	56.183
DSL:10-24	2124077	55.246
DSL:10-28	3967916	101.260
DSL:12-24	2115004	62.881
DSL:12-28	3958843	115.174
DSL:14-24	2104991	81.389
DSL:16-24	2091919	117.665
MO:22-32	1892657	66.500
MO:24-36	1883766	62.637
MO:28-40	54403	2.706
BUNKC:10-40	4019054	175.352
BUNKC:12-40	4009981	181.119

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

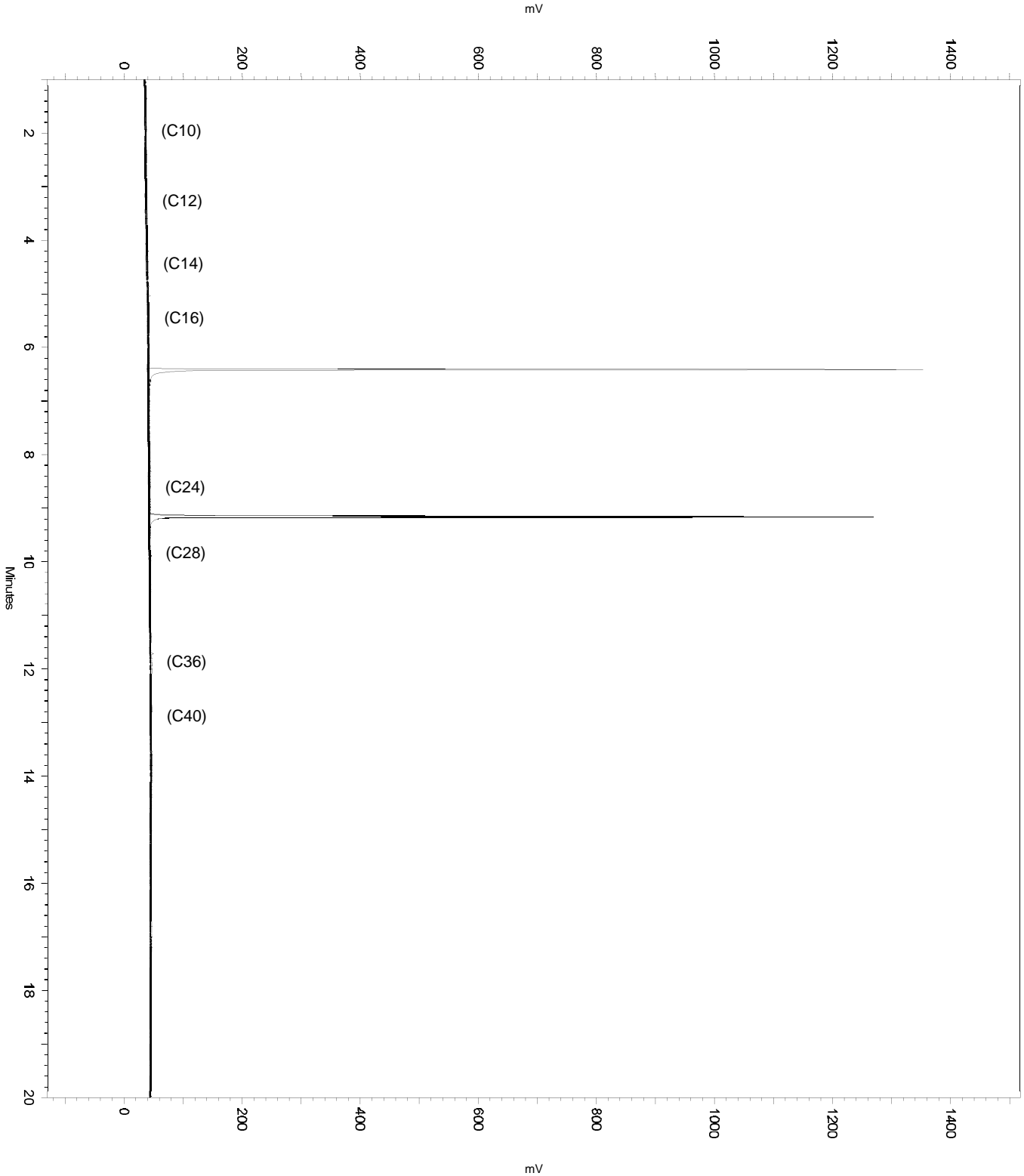
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.374	6.698	0
No	Split Peak	6.554	0	0
No	Manual Peak	9.102	9.41	0
No	Split Peak	9.337	0	0

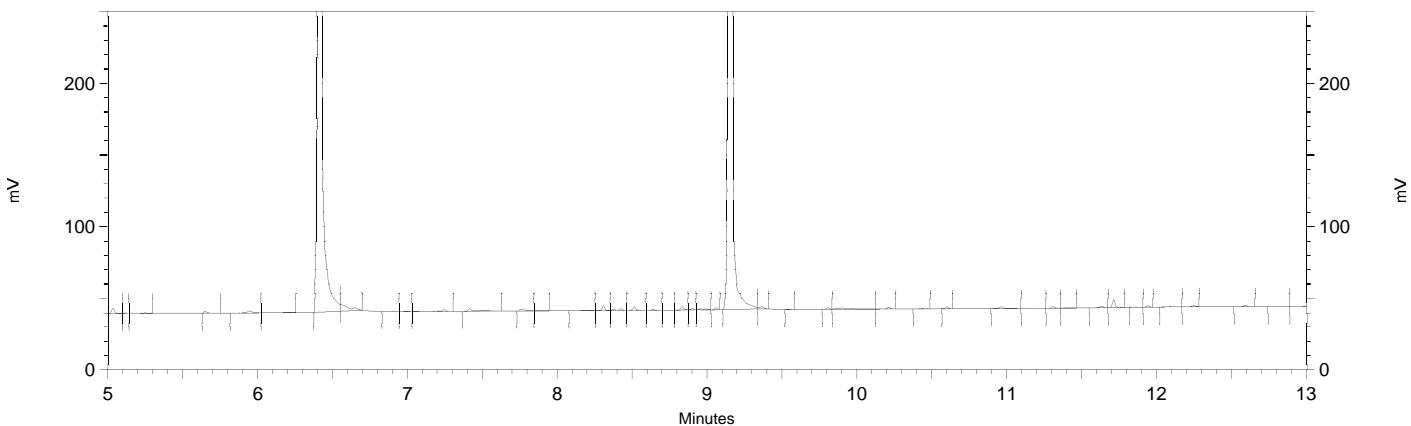
Sample Name: 309066-004sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 10:05:06 PM
Analysis Date: 4/30/2019 8:25:30 AM
Instrument: GC14B Vial: 33 Operator: teh analyst (iims2k3\teh)
Sample Amount: 1



Sample Name: 309066-004sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 10:05:06 PM
 Analysis Date: 4/30/2019 8:10:45 AM
 Instrument: GC14B Vial: 33 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.422	1982915	40.024
Hexacosane	9.165	1803440	44.004



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

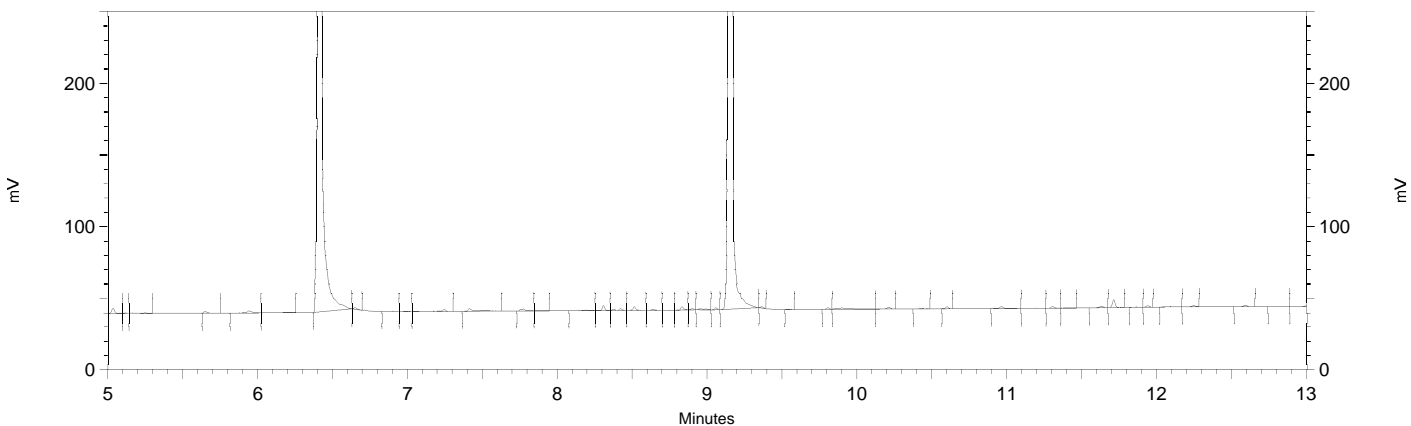
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.374	6.698	0
Yes	Split Peak	6.554	0	0
Yes	Manual Peak	9.102	9.41	0
Yes	Split Peak	9.337	0	0

Sample Name: 309066-004sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 10:05:06 PM
 Analysis Date: 4/30/2019 8:10:22 AM
 Instrument: GC14B Vial: 33 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.422	1986055	40.087
Hexacosane	9.165	1798777	43.891



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b033
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

QC Raw Data

ENTHALPY BLANK USER REPORT FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Lab ID : QC973534
 Seqnum : 229167587013.9 Matrix : Water
 File : 116_013 Batch : 269931 Time : 26-APR-2019 16:22
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

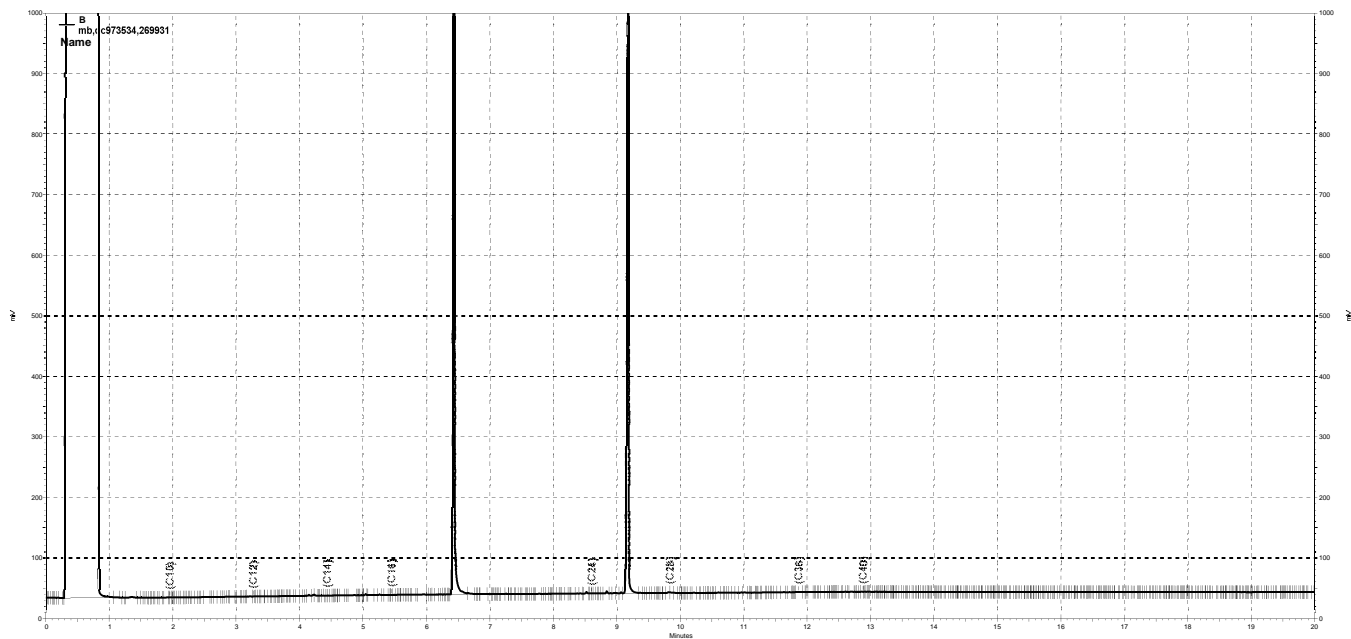
Analyte	Ch	Cal	Raw	Result	RL	Flags
Diesel C10-C24	B	229137260002	2.138	ND	50	u
Motor Oil C24-C36	B	229137260003	1.678	ND	300	u
Bunker C C12-C40	B	229121391002	5.638	ND	300	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229163216001	49.37	250.0	246.8	99	68-124	u

TKY 04/29/19 : DSL CCV was out high. Ran 2 DSL CCVS at runs 116_017 and 018.
 Passed within range. [general version]

TKY: 04/29/19 * CRC: 04/30/19 EAH: 04/30/19 * TKM: 05/02/19

u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b013, B

Sample Name: mb,qc973534,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b013
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 4:22:23 PM
 Analysis Date: 4/26/2019 4:48:45 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	41178	1.106
DSL:10-14	25873	1.841
DSL:10-22	2519320	67.374
DSL:10-24	2528133	65.755
DSL:10-28	4652878	118.740
DSL:12-24	2514377	74.755
DSL:12-28	4639122	134.965
DSL:14-24	2502561	96.761
DSL:16-24	2489404	140.022
MO:22-32	2142598	75.282
MO:24-36	2146626	71.377
MO:28-40	31006	1.542
BUNKC:10-40	4680663	204.218
BUNKC:12-40	4666907	210.790

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

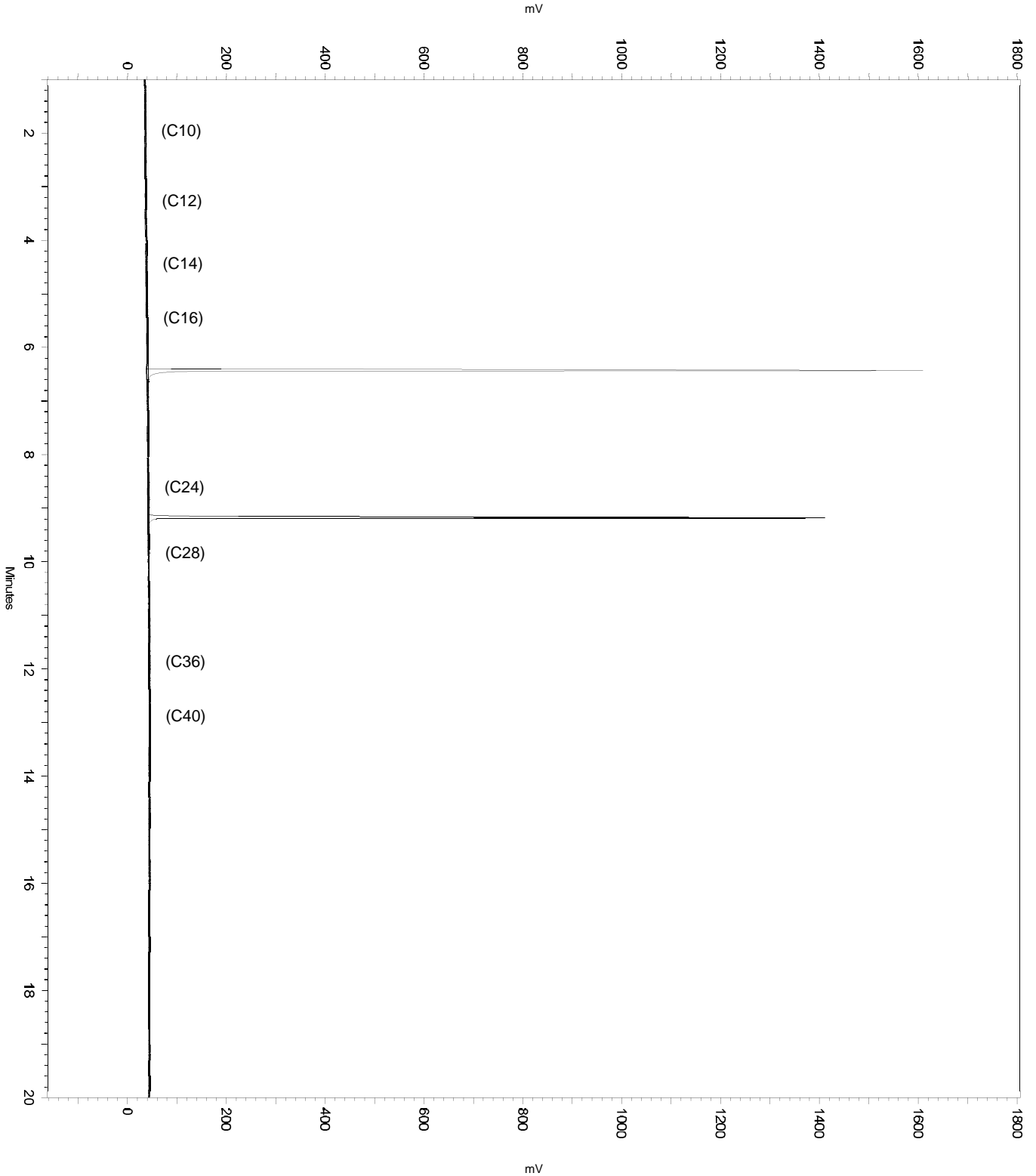
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.381	6.791	0
No	Split Peak	6.63	0	0
No	Manual Peak	9.096	9.415	0
No	Split Peak	9.275	0	0

Sample Name: mb,qc973534,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b013
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 4:22:23 PM
Analysis Date: 4/26/2019 4:48:45 PM
Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

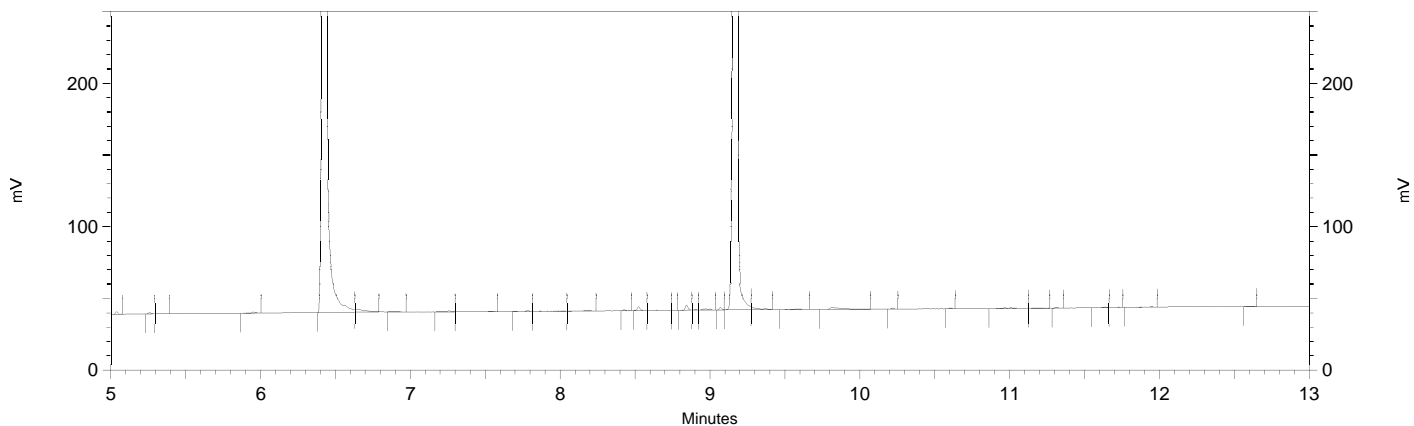


Sample Name: **mb,qc973534,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b013
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 4:22:23 PM
 Analysis Date: 4/26/2019 4:48:19 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.437	2445917	49.369
Hexacosane	9.180	2096168	51.147



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

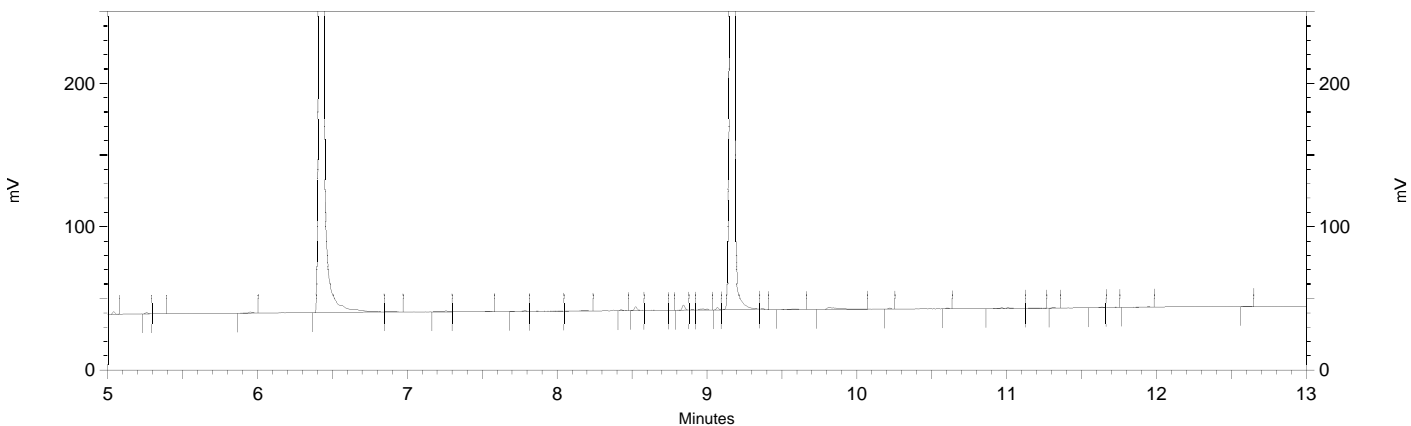
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.381	6.791	0
Yes	Split Peak	6.63	0	0
Yes	Manual Peak	9.096	9.415	0
Yes	Split Peak	9.275	0	0

Sample Name: **mb,qc973534,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b013
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 4:22:23 PM
 Analysis Date: 4/26/2019 4:47:35 PM
 Instrument: GC14B Vial: 13 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.437	2456873	49.590
Hexacosane	9.180	2097614	51.182



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b013
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY BLANK USER REPORT FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Lab ID : QC973534 (S)
 Seqnum : 229171804029.7 Matrix : Water
 File : 119_029 Batch : 269931 Time : 29-APR-2019 20:15
 IDF : 1.0 Raw Units : mg/L Units : ug/L

500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

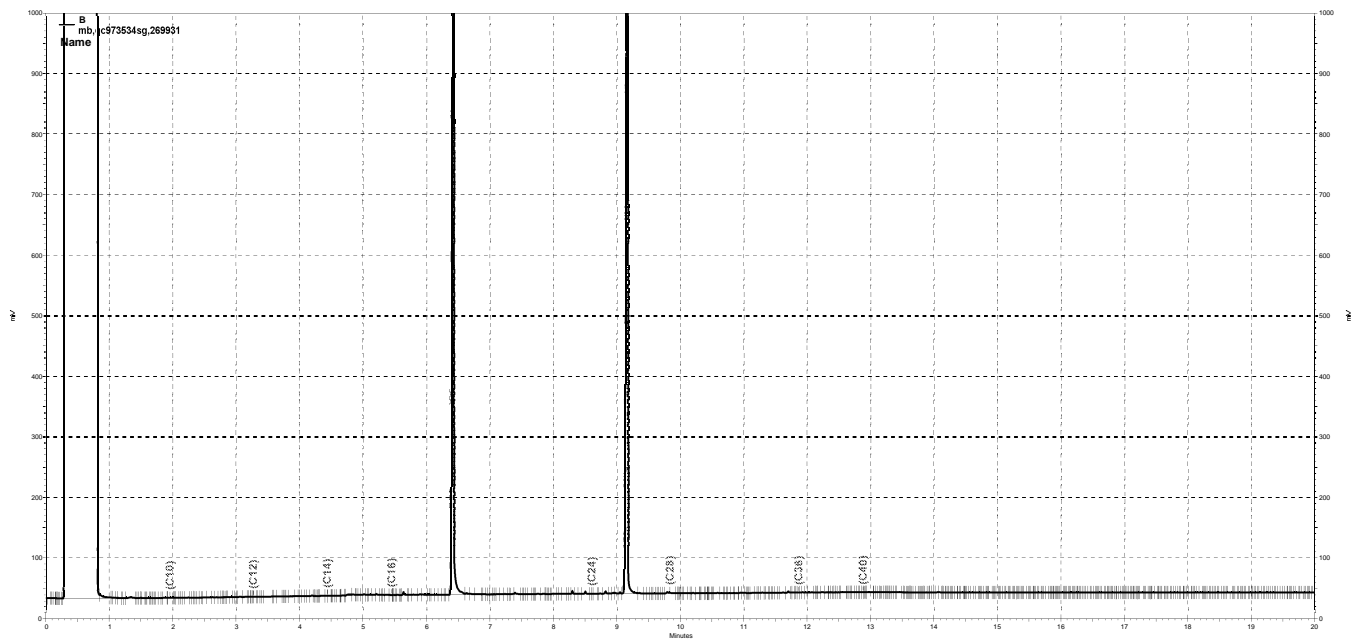
Analyte	Ch	Cal	Raw	Result	RL	Flags
Diesel C10-C24	B	229137260002	4.187	ND	50	u
Motor Oil C24-C36	B	229137260003	3.479	ND	300	u
Bunker C C12-C40	B	229121391002	13.95	ND	300	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
o-Terphenyl	B	229163216001	61.99	250.0	310.0	124	68-124	u

TKY 04/30/19 : Corrected automatically drawn baseline. [general version]

CRC: 04/30/19 EAH: 04/30/19 * TKM: 05/02/19

u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b029, B

Sample Name: mb,qc973534sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b029
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 8:15:39 PM
 Analysis Date: 4/30/2019 8:16:07 AM
 Instrument: GC14B Vial: 29 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	52074	1.399
DSL:10-14	25647	1.825
DSL:10-22	3207657	85.783
DSL:10-24	3232214	84.068
DSL:10-28	6067707	154.846
DSL:12-24	3220761	95.756
DSL:12-28	6056254	176.193
DSL:14-24	3207724	124.026
DSL:16-24	3181153	178.931
MO:22-32	2875862	101.046
MO:24-36	2878375	95.709
MO:28-40	108163	5.381
BUNKC:10-40	6165266	268.991
BUNKC:12-40	6153813	277.949

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

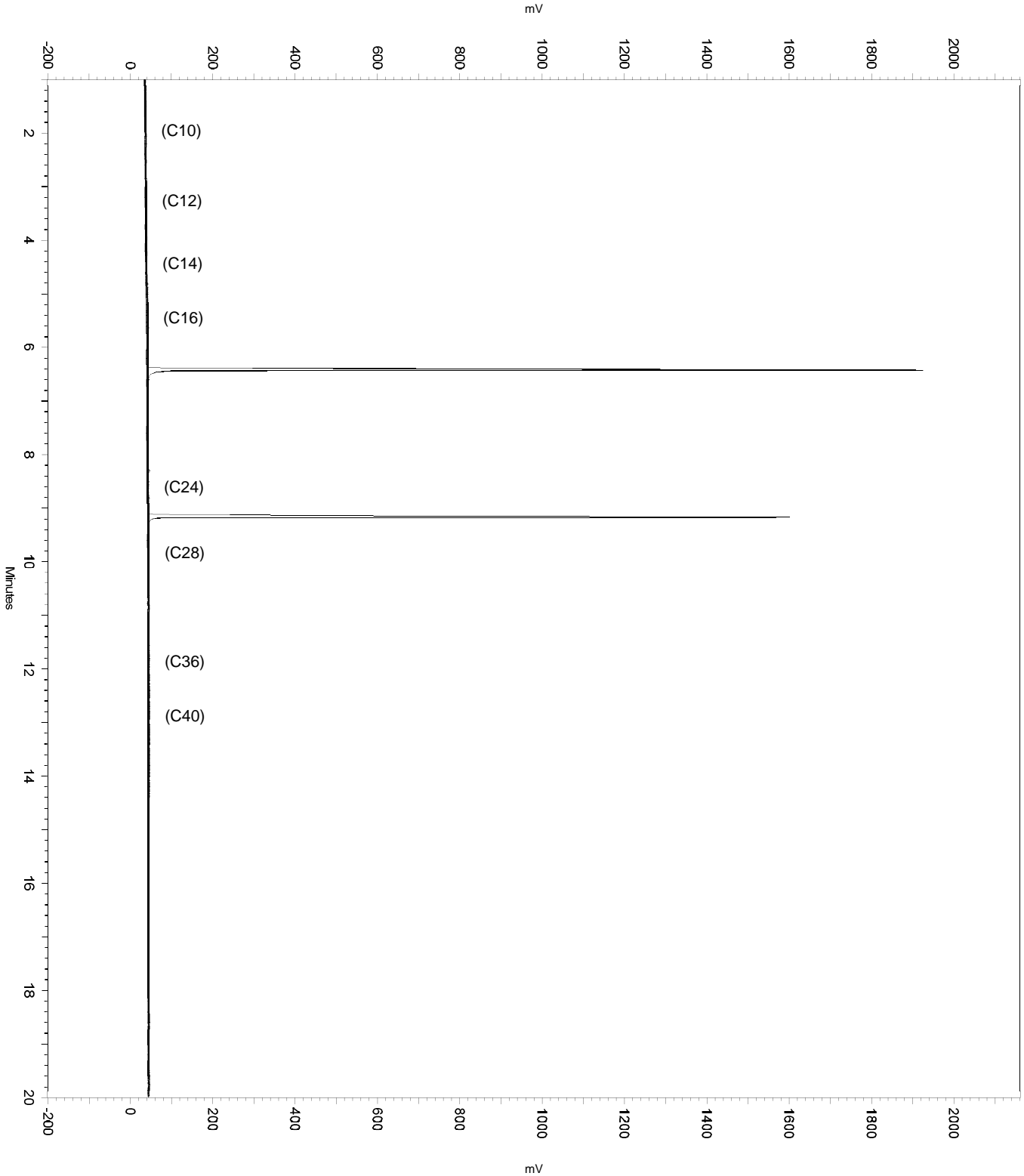
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.363	6.737	0
No	Split Peak	6.53	0	0
No	Manual Peak	9.097	9.298	0
No	Split Peak	9.244	0	0

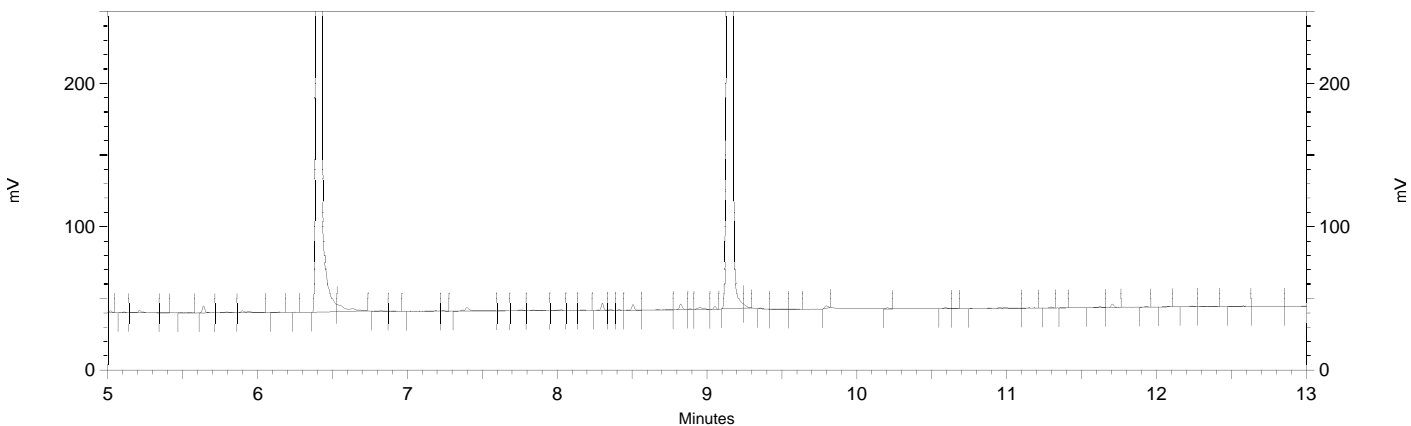
Sample Name: mb,qc973534sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b029
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 8:15:39 PM
Analysis Date: 4/30/2019 8:16:07 AM
Instrument: GC14B Vial: 29 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: mb,qc973534sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b029
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 8:15:39 PM
 Analysis Date: 4/30/2019 8:08:37 AM
 Instrument: GC14B Vial: 29 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.425	3071220	61.990
Hexacosane	9.167	2773732	67.680



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

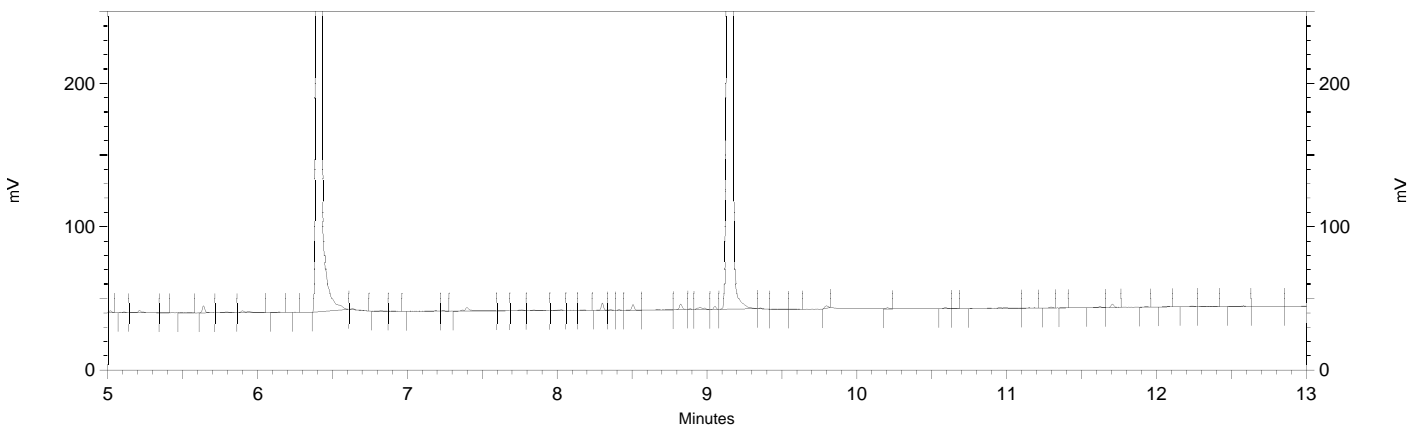
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.363	6.737	0
Yes	Split Peak	6.53	0	0
Yes	Manual Peak	9.097	9.298	0
Yes	Split Peak	9.244	0	0

Sample Name: mb,qc973534sg,269931
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b029
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 8:15:39 PM
 Analysis Date: 4/30/2019 8:08:10 AM
 Instrument: GC14B Vial: 29 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.425	3076007	62.087
Hexacosane	9.167	2783573	67.920



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY SPIKE USER REPORT FOR 309066 GCSV Water
EPA 8015B

Type : BS
 Inst : GC14B
 Seqnum : 229167587009.9
 File : 116_009
 IDF : 1.0
 Lab ID : QC973535
 Matrix : Water
 Batch : 269931
 Time : 26-APR-2019 13:30
 Cal : 229137260002
 Cal : 229163216001
 Units : ug/L

Type : BSD
 Inst : GC14B
 Seqnum : 229167587010.9
 File : 116_010
 IDF : 1.0
 Lab ID : QC973536
 Matrix : Water
 Batch : 269931
 Time : 26-APR-2019 13:58
 Cal : 229137260002
 Cal : 229163216001

BS: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF
 BSD: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

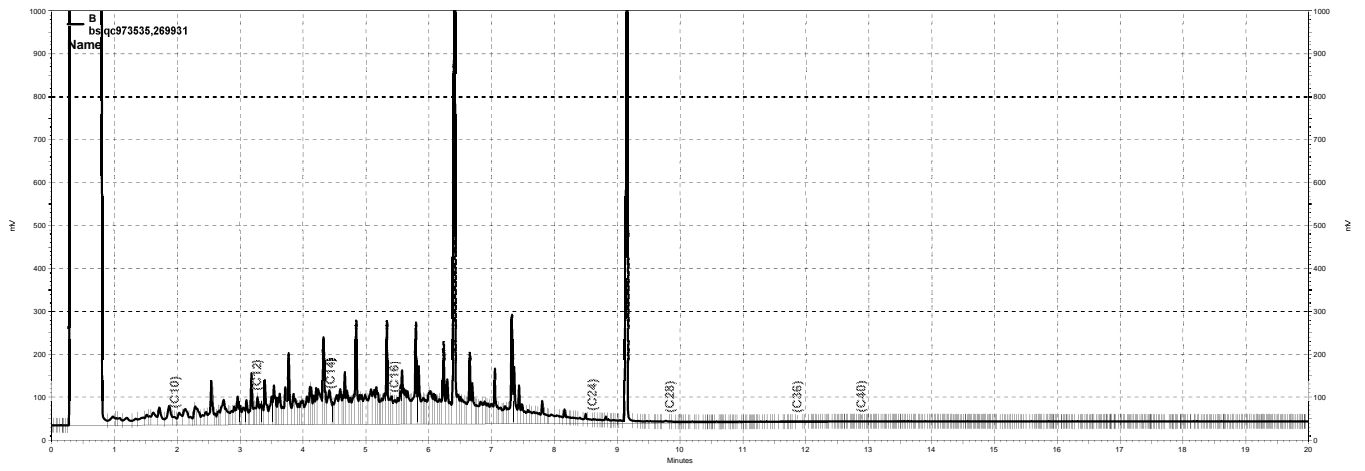
Analyte	Spiked	BS		Ch	%Rec	BSD		Ch	%Rec	Limits	RPD	Lim	Flags
		Raw	Result			Raw	Result						
Diesel C10-C24	2500	516.7	2583	B	103	518.8	2594	B	104	64-120	0	30	u
o-Terphenyl	250.0	49.71	248.6	B	99	51.54	257.7	B	103	68-124			u

CRC 04/26/19 : Corrected automatically drawn baseline for spike & dup. [general version]

TKY 04/29/19 : DSL CCV was out high. Ran 2 DSL CCVS at runs 116_017 and 018. Passed within range. [general version]

TKY: 04/29/19 * CRC: 04/30/19 TKM: 05/02/19

u=use



\\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b009, B

Sample Name: **bs,qc973535,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 1:30:41 PM
 Analysis Date: 4/26/2019 3:33:49 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	11117110	298.629
DSL:10-14	7085801	504.079
DSL:10-22	21695166	580.195
DSL:10-24	22328054	580.737
DSL:10-28	24832674	633.721
DSL:12-24	19938238	592.780
DSL:12-28	22442858	652.925
DSL:14-24	15994405	618.420
DSL:16-24	11990458	674.430
MO:22-32	3557927	125.011
MO:24-36	2943178	97.864
MO:28-40	550313	27.375
BUNKC:10-40	25336636	1105.439
BUNKC:12-40	22946820	1036.438

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

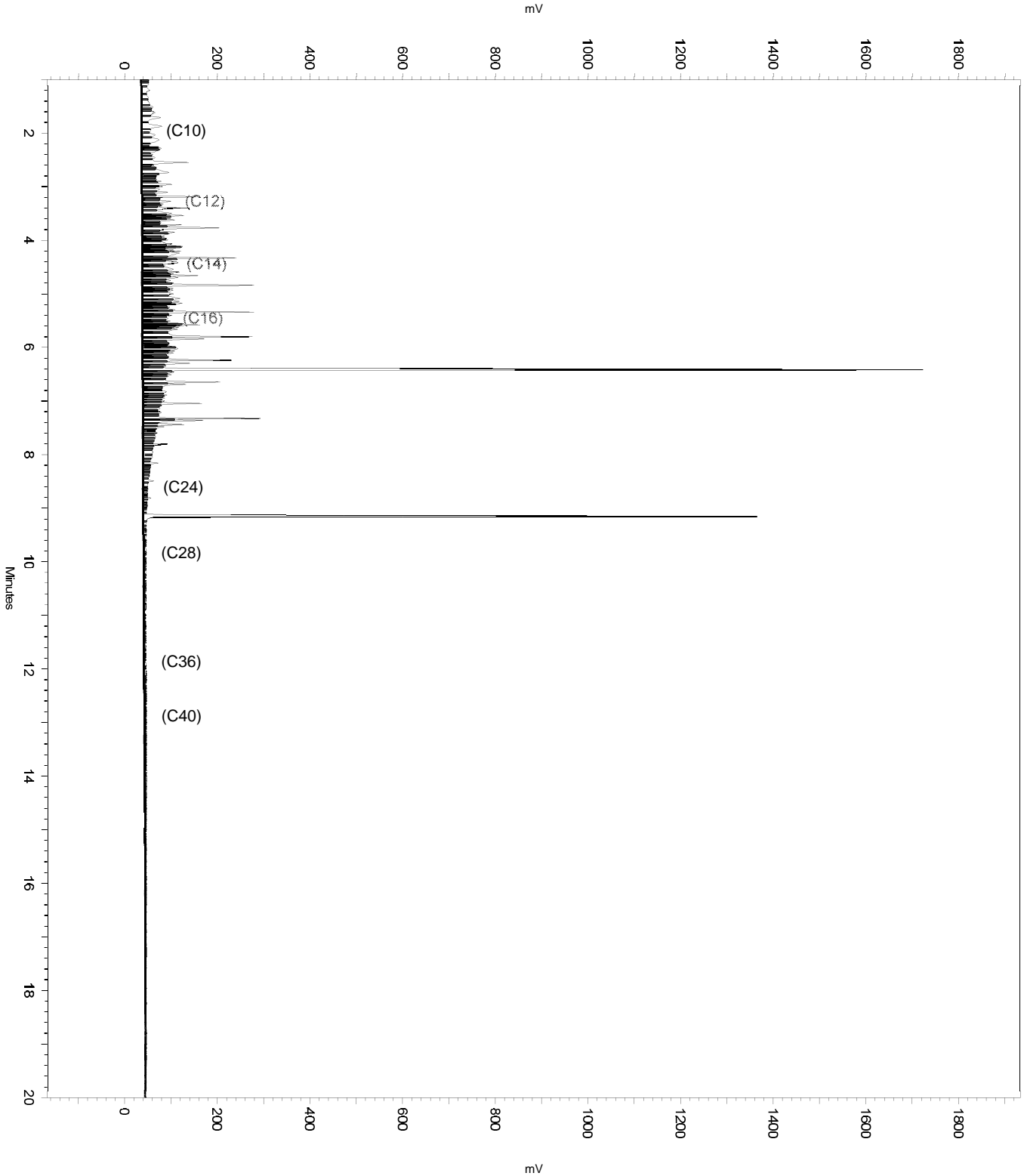
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.36	6.602	0
No	Split Peak	6.445	0	0
No	Reassign Peak	6.461	6.413	0
No	Split Peak	9.242	0	0
Yes	Move BL Stop	11.002	17.381	0

Sample Name: **bs,qc973535,269931**
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b009
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 1:30:41 PM
Analysis Date: 4/26/2019 3:33:49 PM
Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **bs,qc973535,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 1:30:41 PM
 Analysis Date: 4/26/2019 3:33:42 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	10944473	293.992
DSL:10-14	6977905	496.403
DSL:10-22	21298852	569.596
DSL:10-24	21850660	568.320
DSL:10-28	24198008	617.524
DSL:12-24	19501592	579.798
DSL:12-28	21848940	635.646
DSL:14-24	15615607	603.774
DSL:16-24	11673741	656.615
MO:22-32	3149663	110.667
MO:24-36	2482318	82.540
MO:28-40	123173	6.127
BUNKC:10-40	24300260	1060.221
BUNKC:12-40	21951192	991.468

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

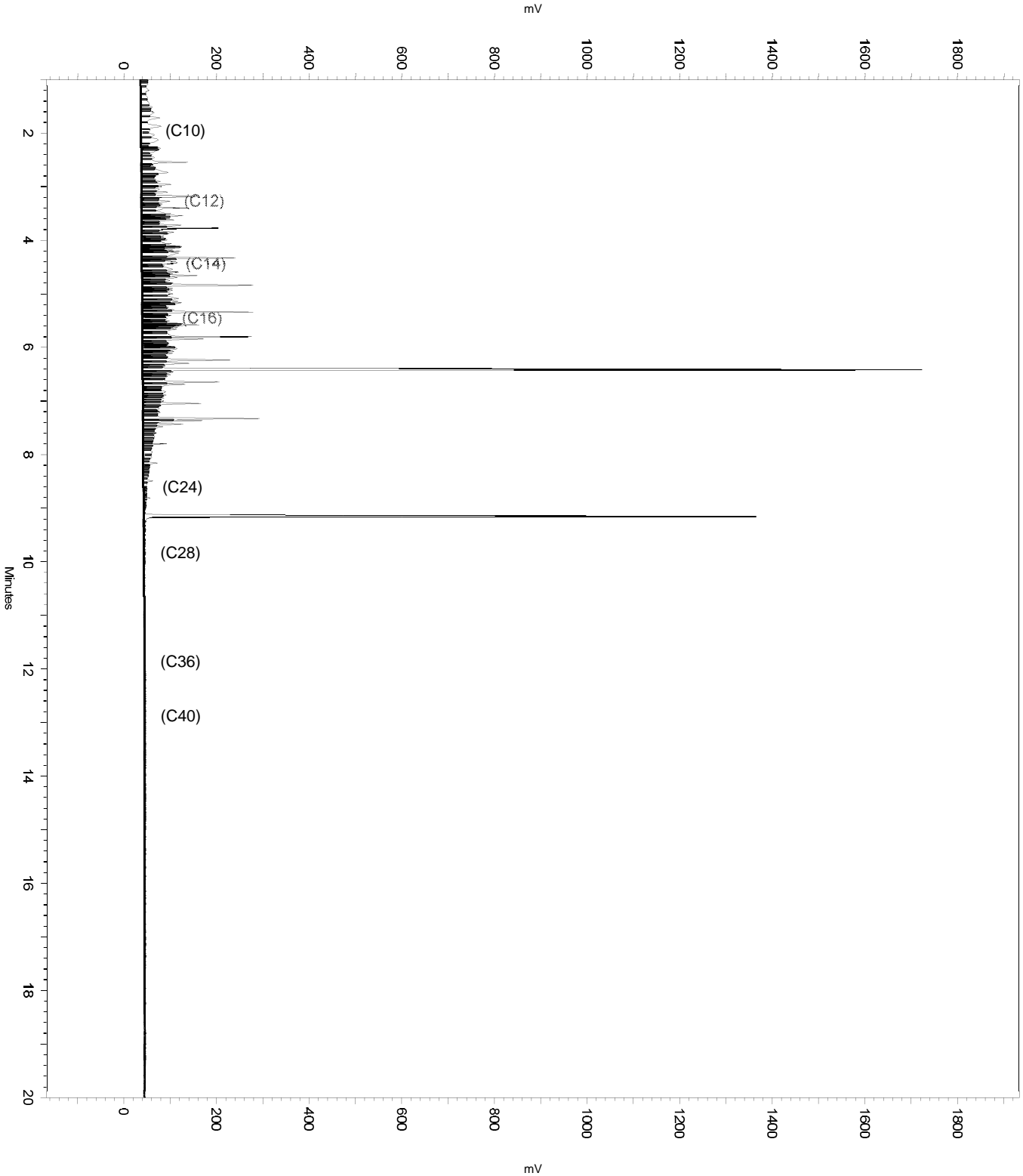
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.36	6.602	0
No	Split Peak	6.445	0	0
No	Reassign Peak	6.461	6.413	0
No	Split Peak	9.242	0	0
No	Move BL Stop	11.002	17.381	0

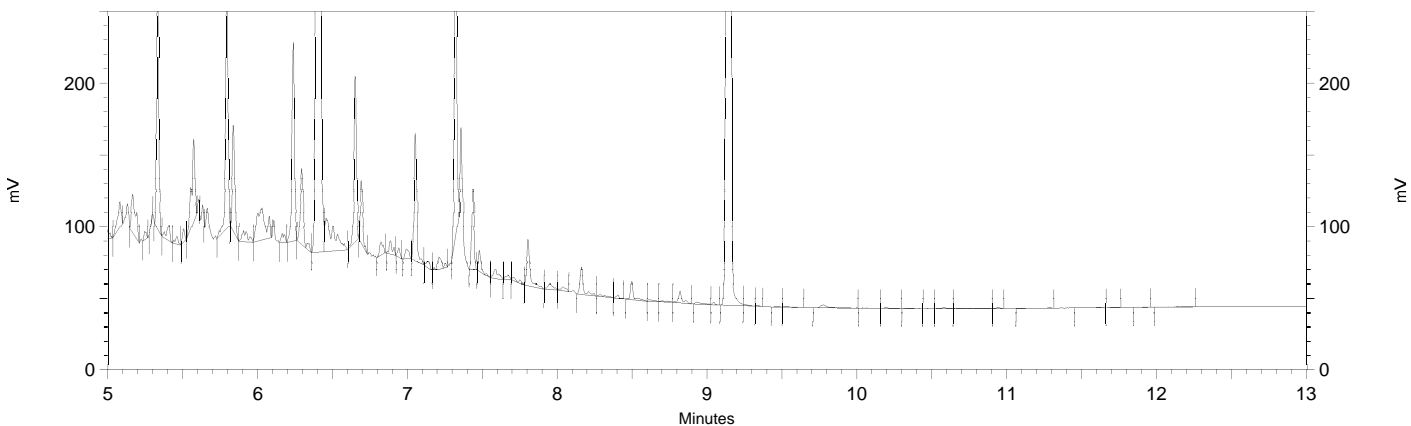
Sample Name: **bs,qc973535,269931**
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b009
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 1:30:41 PM
Analysis Date: 4/26/2019 3:33:42 PM
Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **bs,qc973535,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 1:30:41 PM
 Analysis Date: 4/26/2019 3:33:01 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.418	2462910	49.712
Hexacosane	9.157	2067262	50.442



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

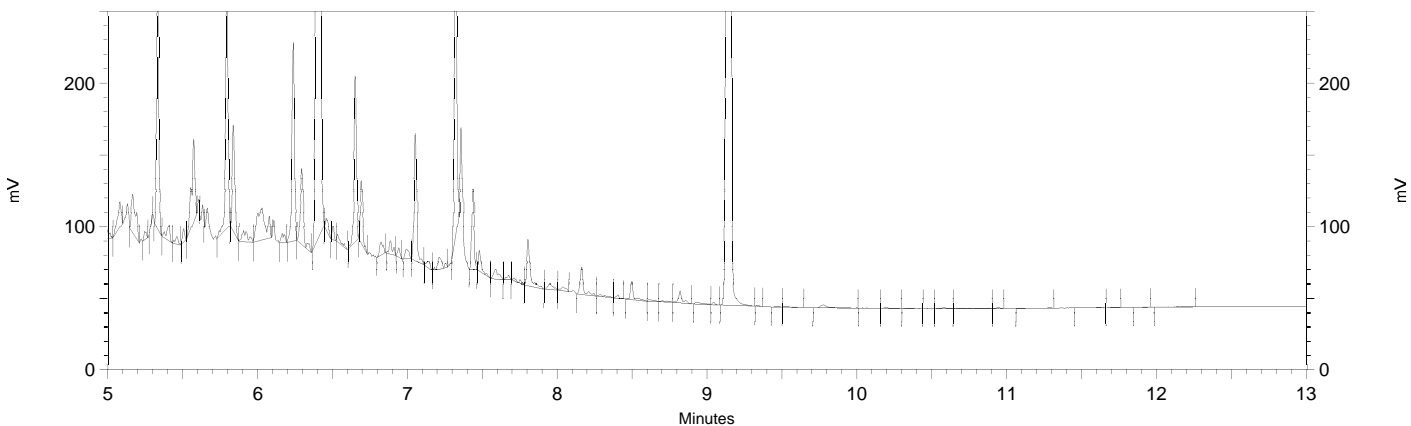
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.36	6.602	0
Yes	Split Peak	6.445	0	0
Yes	Reassign Peak	6.461	6.413	0
Yes	Split Peak	9.242	0	0
No	Move BL Stop	11.002	17.381	0

Sample Name: **bs,qc973535,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b009
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 1:30:41 PM
 Analysis Date: 4/26/2019 3:32:52 PM
 Instrument: GC14B Vial: 9 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.457	12468	0.252
Hexacosane	9.157	2068969	50.483



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

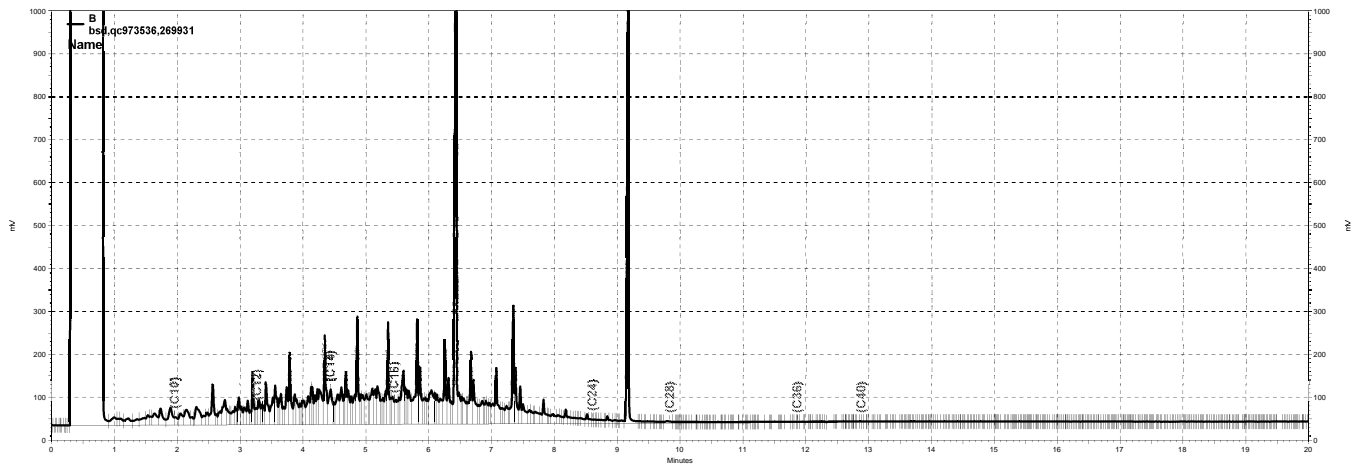
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.36	6.602	0
No	Split Peak	6.445	0	0
No	Reassign Peak	6.461	6.413	0
No	Split Peak	9.242	0	0
No	Move BL Stop	11.002	17.381	0



\\kraken\gdrive\lezchrom\Projects\GC14B\Data\2019\116b010, B

Sample Name: **bsd,qc973536,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b010
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 1:58:05 PM
 Analysis Date: 4/26/2019 3:34:17 PM
 Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	11002859	295.560
DSL:10-14	6534471	464.858
DSL:10-22	21870702	584.890
DSL:10-24	22500116	585.212
DSL:10-28	25070904	639.800
DSL:12-24	20452616	608.073
DSL:12-28	23023404	669.814
DSL:14-24	16408379	634.426
DSL:16-24	12308357	692.311
MO:22-32	3572456	125.522
MO:24-36	2939483	97.741
MO:28-40	486598	24.206
BUNKC:10-40	25509148	1112.966
BUNKC:12-40	23461648	1059.691

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

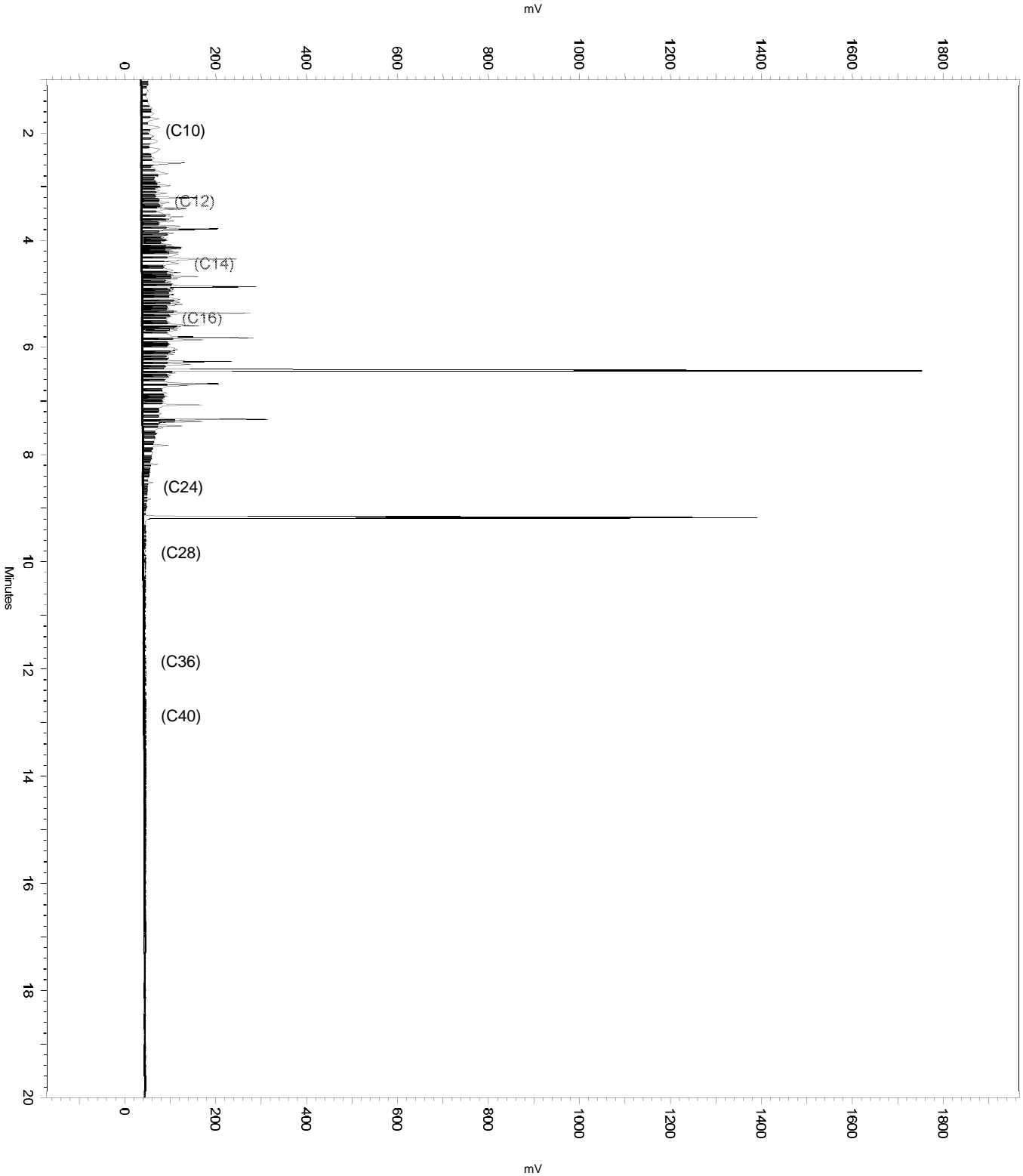
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.385	6.594	0
No	Split Peak	6.465	0	0
No	Split Peak	9.254	0	0
Yes	Move BL Stop	10.268	16.839	0

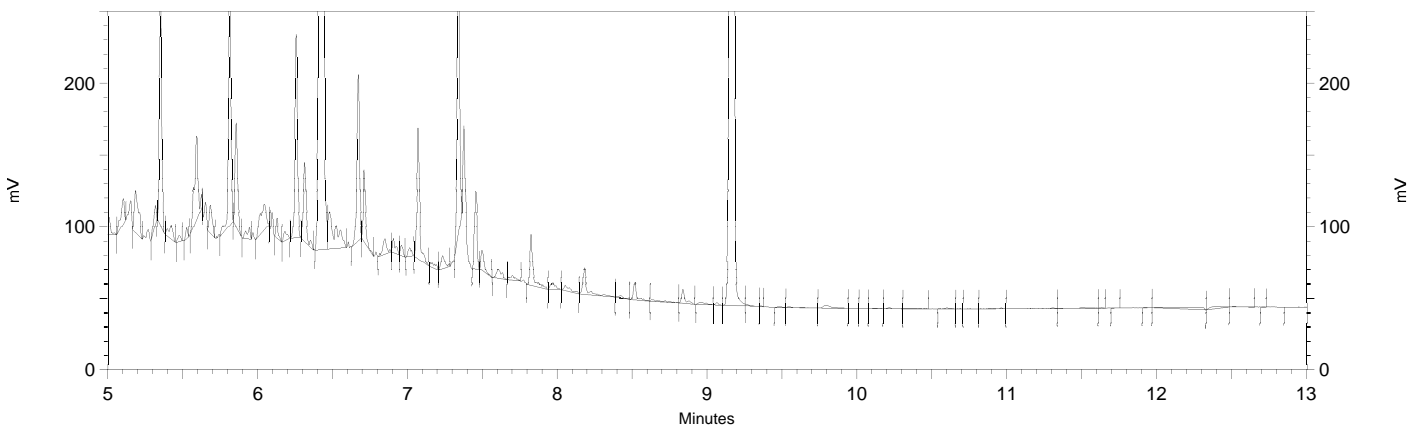
Sample Name: **bsd,qc973536,269931**
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b010
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 1:58:05 PM
Analysis Date: 4/26/2019 3:34:17 PM
Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **bsd,qc973536,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b010
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 1:58:05 PM
 Analysis Date: 4/26/2019 3:33:20 PM
 Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.438	2553432	51.539
Hexacosane	9.177	2129047	51.949



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

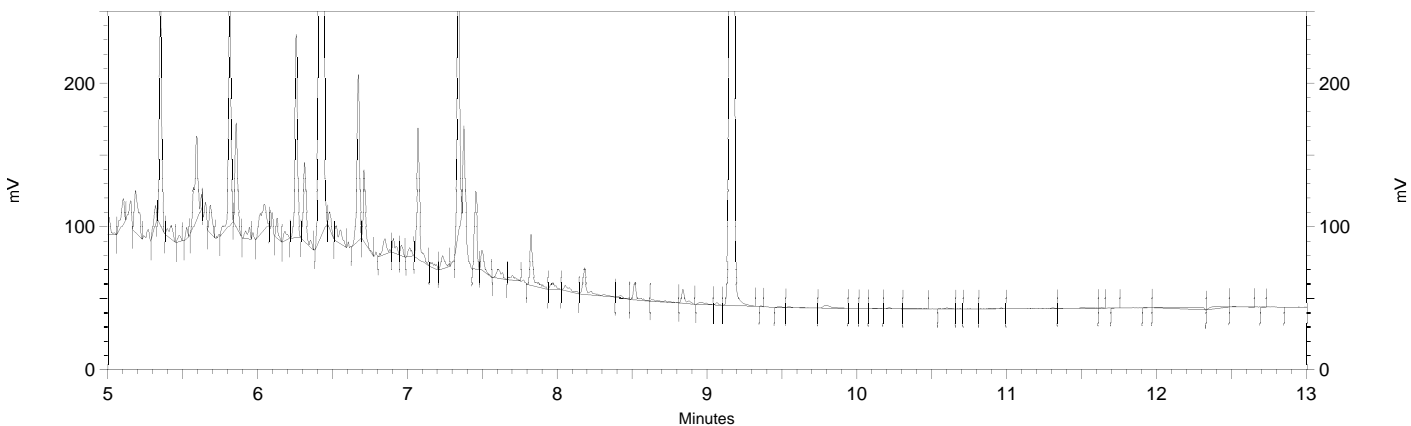
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.385	6.594	0
Yes	Split Peak	6.465	0	0
Yes	Split Peak	9.254	0	0
No	Move BL Stop	10.268	16.839	0

Sample Name: **bsd,qc973536,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b010
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 1:58:05 PM
 Analysis Date: 4/26/2019 3:33:13 PM
 Instrument: GC14B Vial: 10 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.438	2510304	50.668
Hexacosane	9.177	2131317	52.005



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.385	6.594	0
No	Split Peak	6.465	0	0
No	Split Peak	9.254	0	0
No	Move BL Stop	10.268	16.839	0

ENTHALPY SPIKE USER REPORT FOR 309066 GCSV Water
EPA 8015B

Type : BS
 Inst : GC14B
 Seqnum : 229171804041.7
 File : 119_041
 IDF : 1.0
 Lab ID : QC973535 (S)
 Matrix : Water
 Batch : 269931
 Time : 30-APR-2019 01:45
 Cal : 229137260002
 Cal : 229163216001
 Units : ug/L

Type : BSD
 Inst : GC14B
 Seqnum : 229171804042.7
 File : 119_042
 IDF : 1.0
 Lab ID : QC973536 (S)
 Matrix : Water
 Batch : 269931
 Time : 30-APR-2019 02:13
 Cal : 229137260002
 Cal : 229163216001

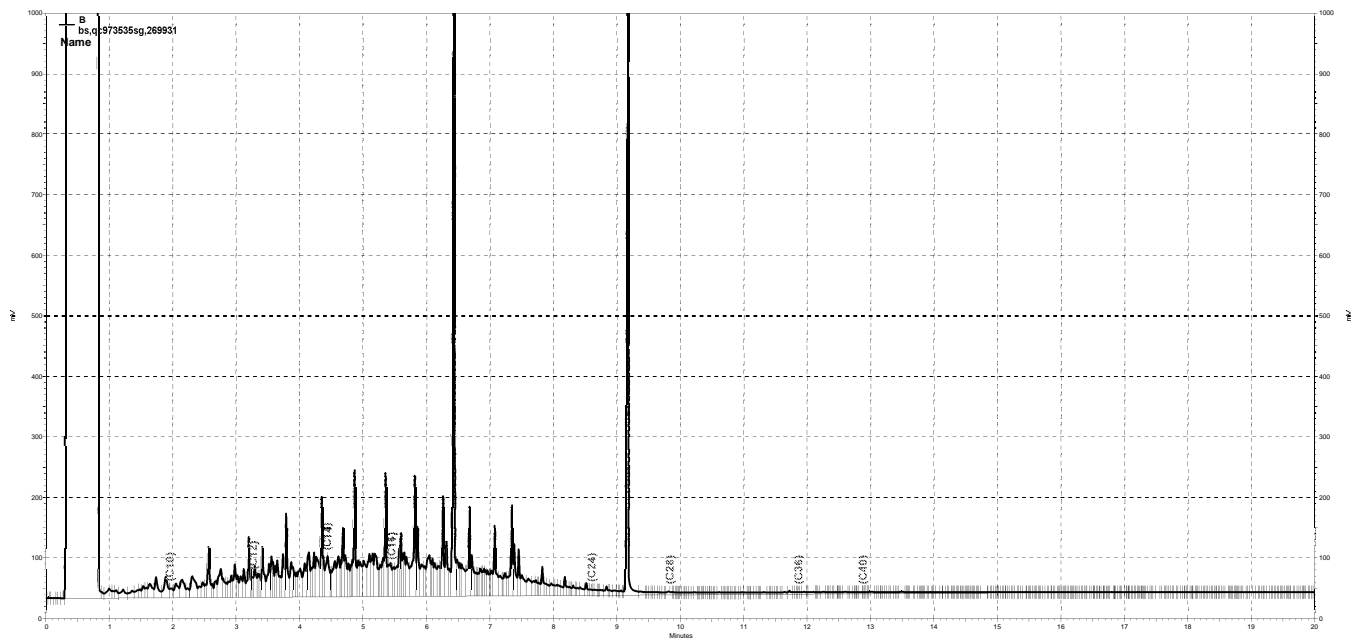
BS: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF
 BSD: 500.00 mL --> 2.5 ml = 0.005 ml/ml PDF

Analyte	Spiked	BS		Ch	%Rec	BSD		Ch	%Rec	Limits	RPD	Lim	Flags
		Raw	Result			Raw	Result						
Diesel C10-C24	2500	431.4	2157	B	86	365.1	1825	B	73	64-120	17	30	u
o-Terphenyl	250.0	41.17	205.8	B	82	35.33	176.6	B	71	68-124			u

TKY 04/30/19 : Corrected automatically drawn baseline for spike & dup. [general version]

CRC: 04/30/19 EAH: 04/30/19 * TKM: 05/02/19

u=use



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b041, B

Sample Name: **bs,qc973535sg,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b041
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/30/2019 1:45:33 AM
 Analysis Date: 4/30/2019 10:02:55 AM
 Instrument: GC14B Vial: 41 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	8974755	241.081
DSL:10-14	5384788	383.070
DSL:10-22	18036018	482.338
DSL:10-24	18625688	484.441
DSL:10-28	20859140	532.317
DSL:12-24	16927088	503.256
DSL:12-28	19160540	557.433
DSL:14-24	13607381	526.126
DSL:16-24	10165834	571.800
MO:22-32	3265295	114.730
MO:24-36	2727987	90.708
MO:28-40	642990	31.985
BUNKC:10-40	21477932	937.083
BUNKC:12-40	19779332	893.372

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

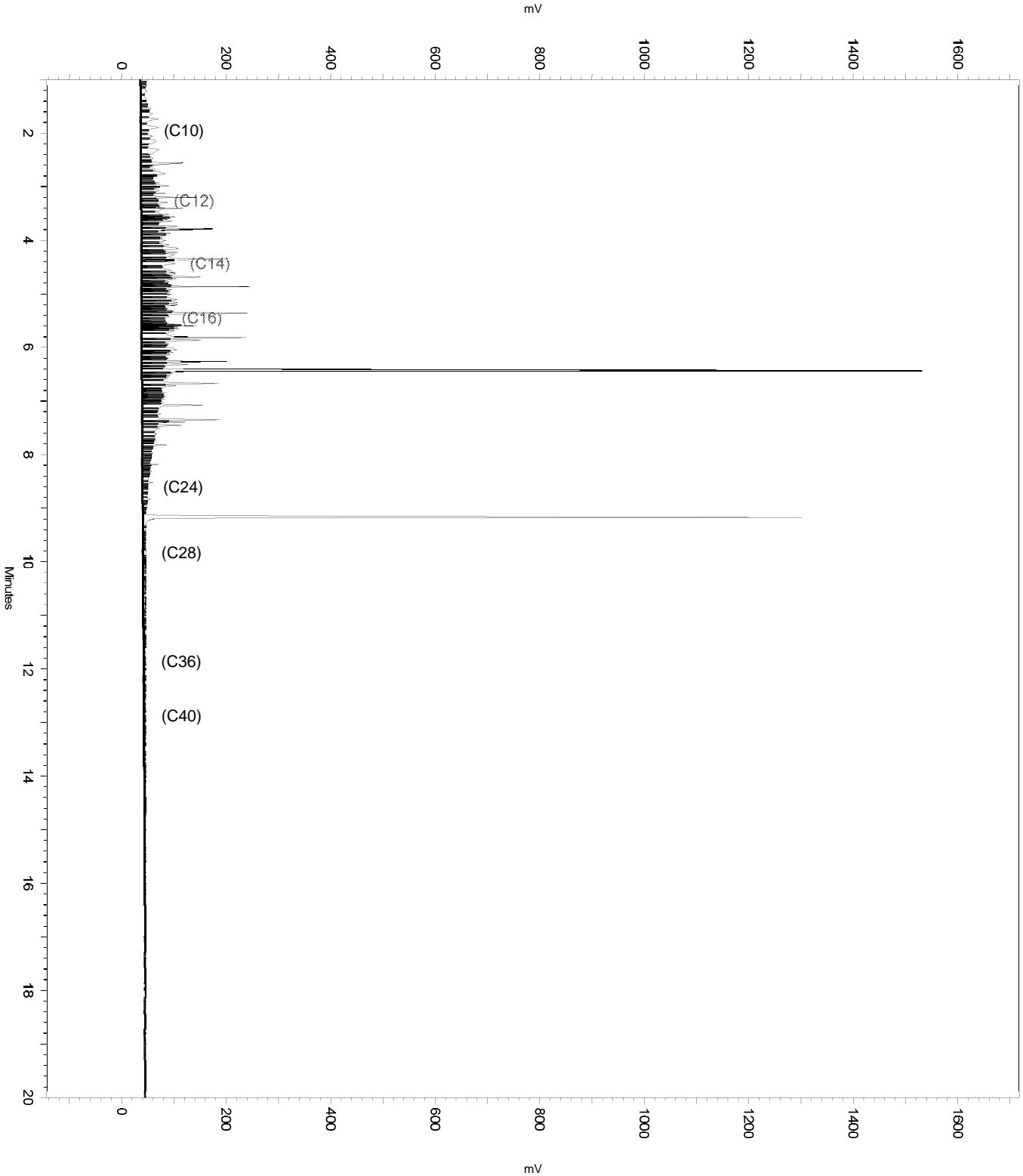
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b041

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.387	6.614	0
No	Split Peak	6.469	0	0
No	Manual Peak	9.116	9.329	0
No	Split Peak	9.261	0	0
Yes	Move BL Stop	11.685	17.359	0

Sample Name: bs,qc973535sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b041
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/30/2019 1:45:33 AM
Analysis Date: 4/30/2019 10:02:55 AM
Instrument: GC14B Vial: 41 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **bs,qc973535sg,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b041
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/30/2019 1:45:33 AM
 Analysis Date: 4/30/2019 10:02:40 AM
 Instrument: GC14B Vial: 41 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	8787274	236.045
DSL:10-14	5272034	375.049
DSL:10-22	17594156	470.522
DSL:10-24	18095756	470.658
DSL:10-28	20158700	514.443
DSL:12-24	16437801	488.709
DSL:12-28	18500748	538.238
DSL:14-24	13185297	509.807
DSL:16-24	9814163	552.019
MO:22-32	2810149	98.737
MO:24-36	2195801	73.013
MO:28-40	100626	5.006
BUNKC:10-40	20249818	883.501
BUNKC:12-40	18591866	839.738

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

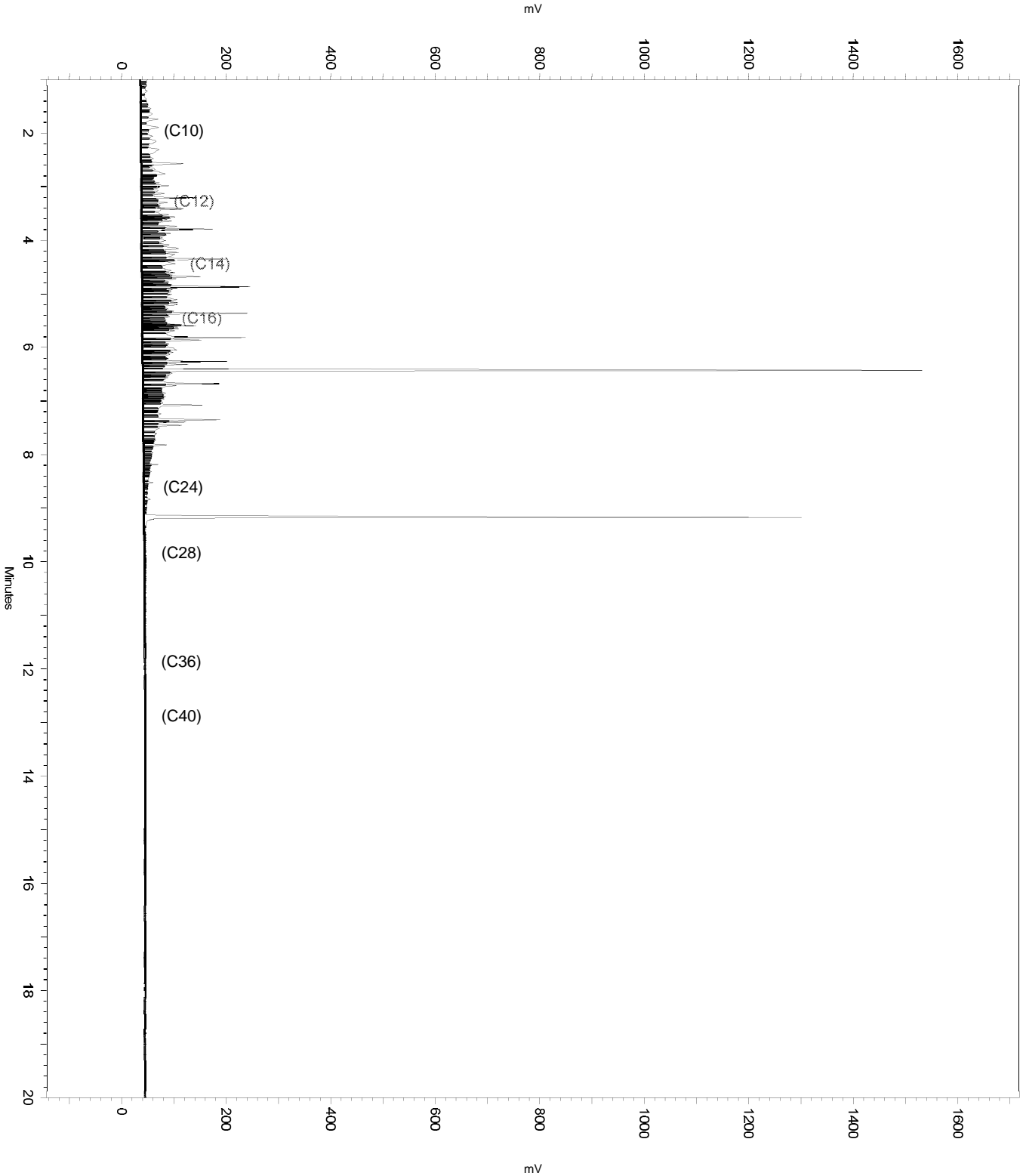
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b041

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.387	6.614	0
No	Split Peak	6.469	0	0
No	Manual Peak	9.116	9.329	0
No	Split Peak	9.261	0	0

Sample Name: **bs,qc973535sg,269931**
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b041
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/30/2019 1:45:33 AM
Analysis Date: 4/30/2019 10:02:40 AM
Instrument: GC14B Vial: 41 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

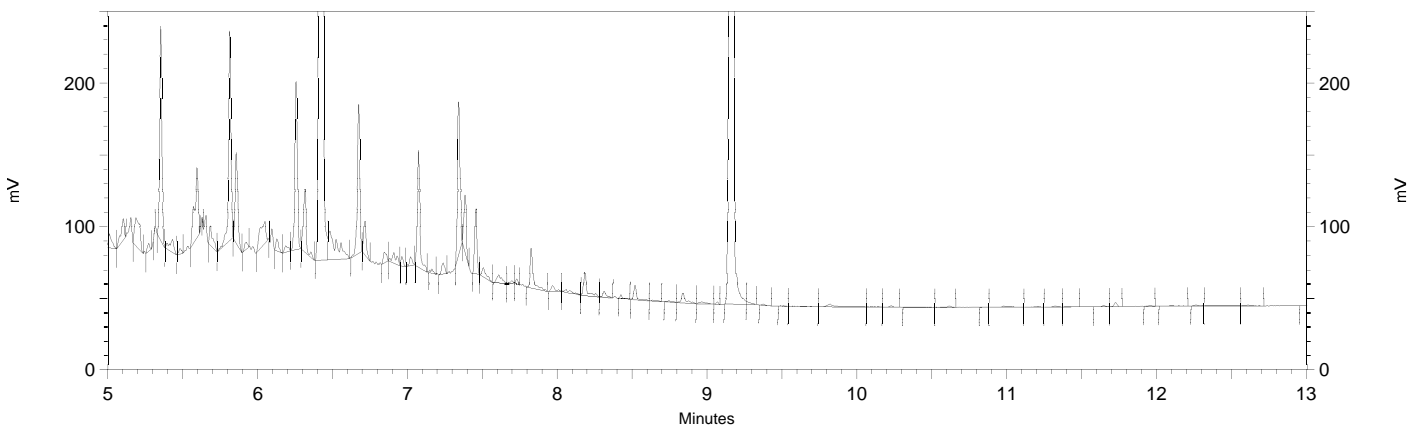


Sample Name: **bs,qc973535sg,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b041
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/30/2019 1:45:33 AM
 Analysis Date: 4/30/2019 9:56:58 AM
 Instrument: GC14B Vial: 41 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.433	2039607	41.168
Hexacosane	9.175	1774153	43.290



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

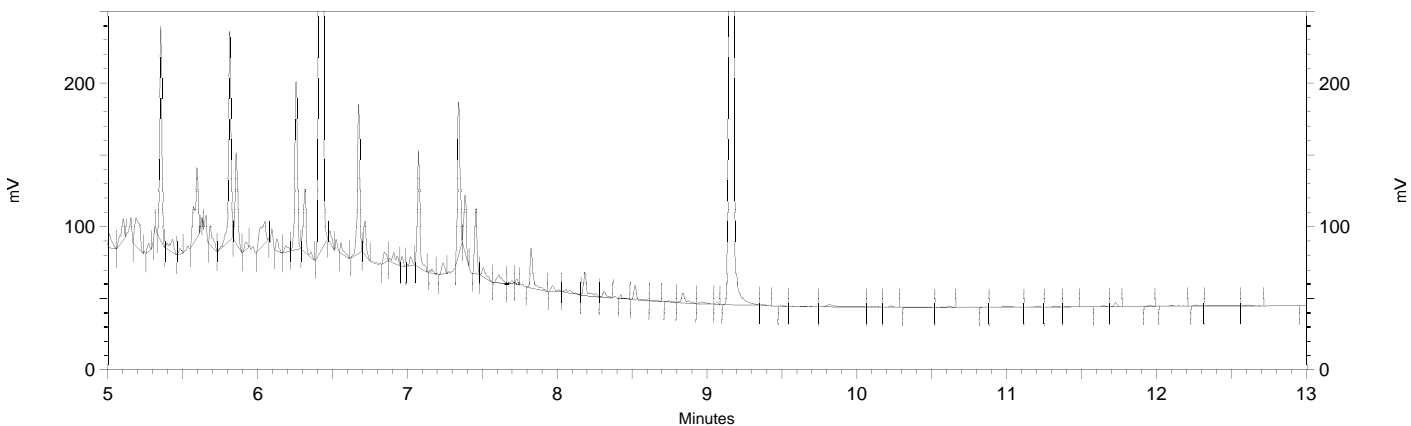
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b041

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.387	6.614	0
Yes	Split Peak	6.469	0	0
Yes	Manual Peak	9.116	9.329	0
Yes	Split Peak	9.261	0	0

Sample Name: **bs,qc973535sg,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b041
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/30/2019 1:45:33 AM
 Analysis Date: 4/30/2019 9:53:40 AM
 Instrument: GC14B Vial: 41 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.433	2005528	40.480
Hexacosane	9.175	1783483	43.518



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

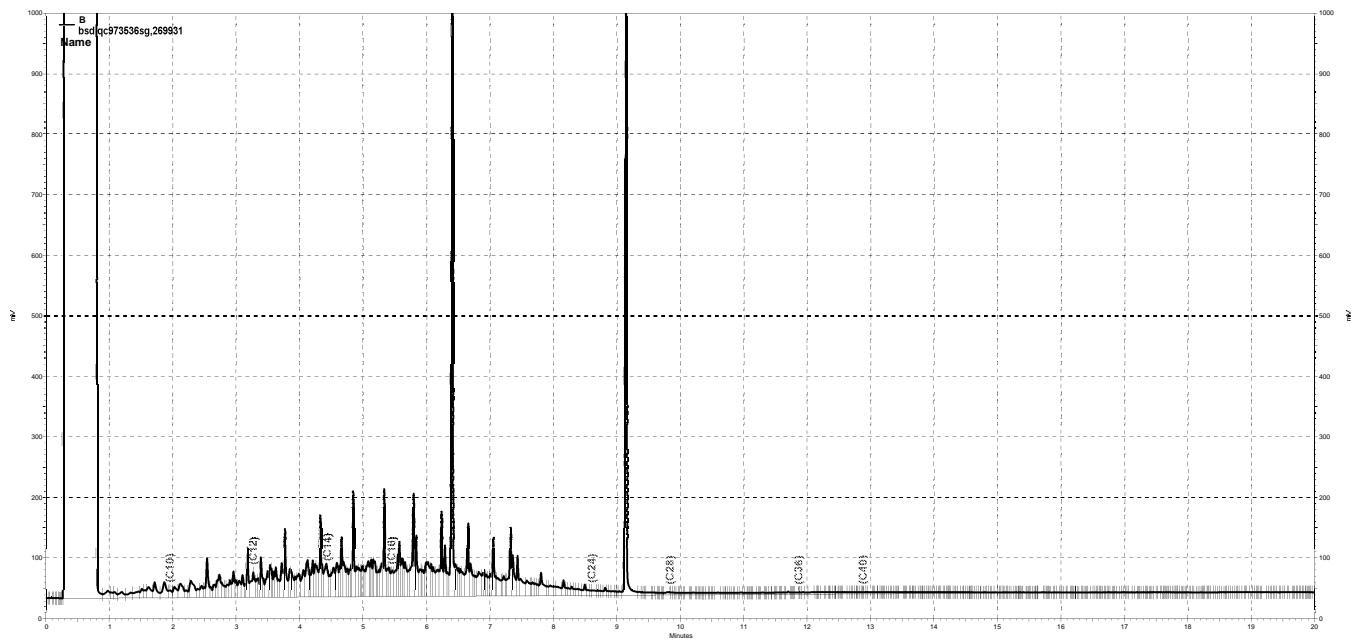
```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b041
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b042, B

Sample Name: **bsd,qc973536sg,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b042
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/30/2019 2:13:13 AM
 Analysis Date: 4/30/2019 10:03:18 AM
 Instrument: GC14B Vial: 42 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	7569277	203.327
DSL:10-14	4365104	310.530
DSL:10-22	15281376	408.671
DSL:10-24	15787339	410.617
DSL:10-28	17765968	453.381
DSL:12-24	14356849	426.841
DSL:12-28	16335477	475.244
DSL:14-24	11845513	458.004
DSL:16-24	8809907	495.533
MO:22-32	2869531	100.824
MO:24-36	2422534	80.552
MO:28-40	588835	29.291
BUNKC:10-40	18315692	799.115
BUNKC:12-40	16885200	762.653

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

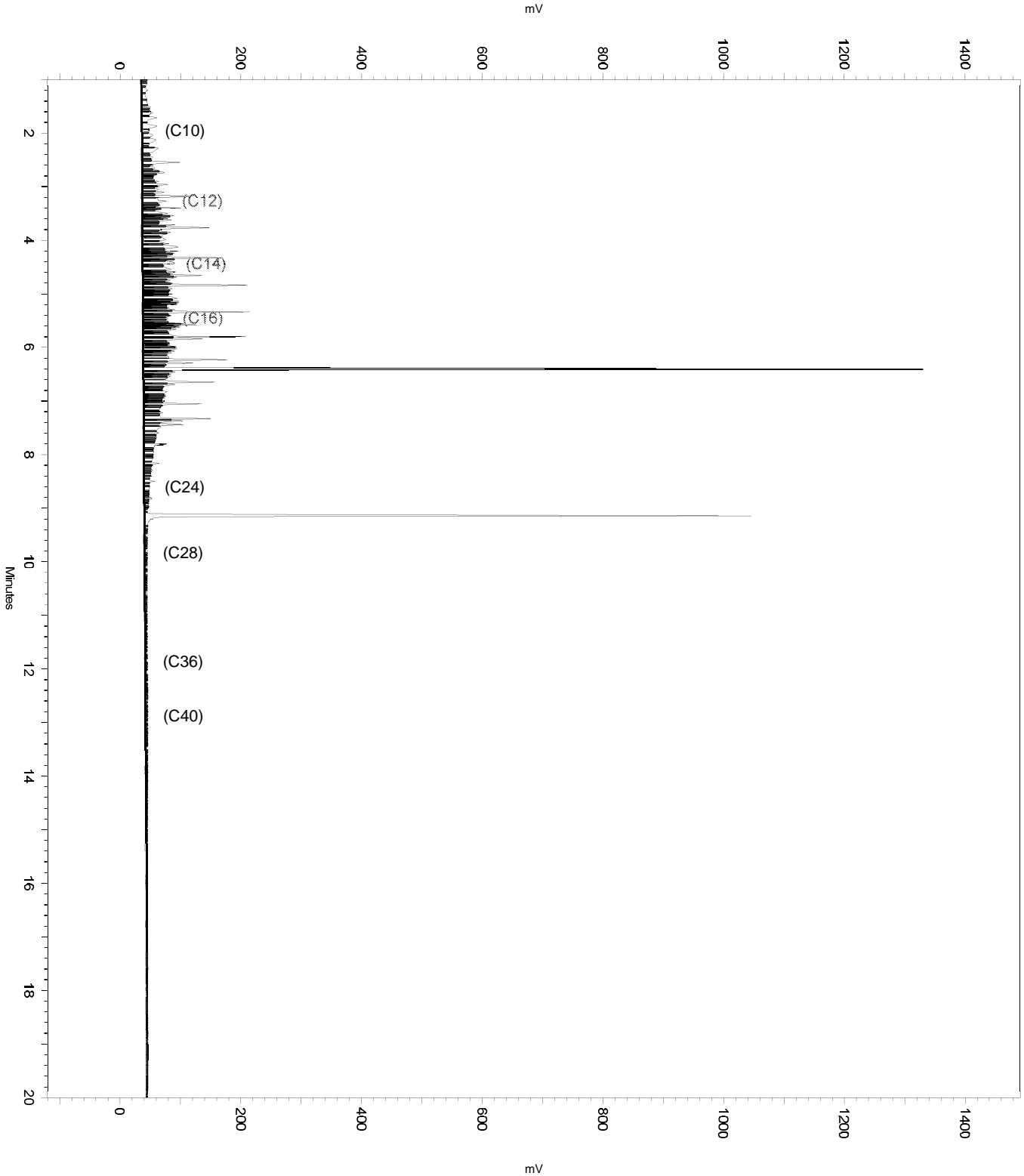
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b042

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.363	6.521	0
No	Split Peak	6.444	0	0
No	Manual Peak	9.092	9.333	0
No	Split Peak	9.245	0	0
Yes	Move BL Stop	9.598	17.591	0

Sample Name: bsd,qc973536sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b042
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/30/2019 2:13:13 AM
Analysis Date: 4/30/2019 10:03:18 AM
Instrument: GC14B Vial: 42 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **bsd,qc973536sg,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b042
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/30/2019 2:13:13 AM
 Analysis Date: 4/30/2019 10:03:05 AM
 Instrument: GC14B Vial: 42 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	7263632	195.117
DSL:10-14	4185157	297.729
DSL:10-22	14574814	389.775
DSL:10-24	14942152	388.635
DSL:10-28	16639443	424.633
DSL:12-24	13580877	403.771
DSL:12-28	15278168	444.484
DSL:14-24	11168046	431.810
DSL:16-24	8248090	463.932
MO:22-32	2229363	78.331
MO:24-36	1765137	58.693
MO:28-40	32278	1.606
BUNKC:10-40	16667885	727.221
BUNKC:12-40	15306610	691.353

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

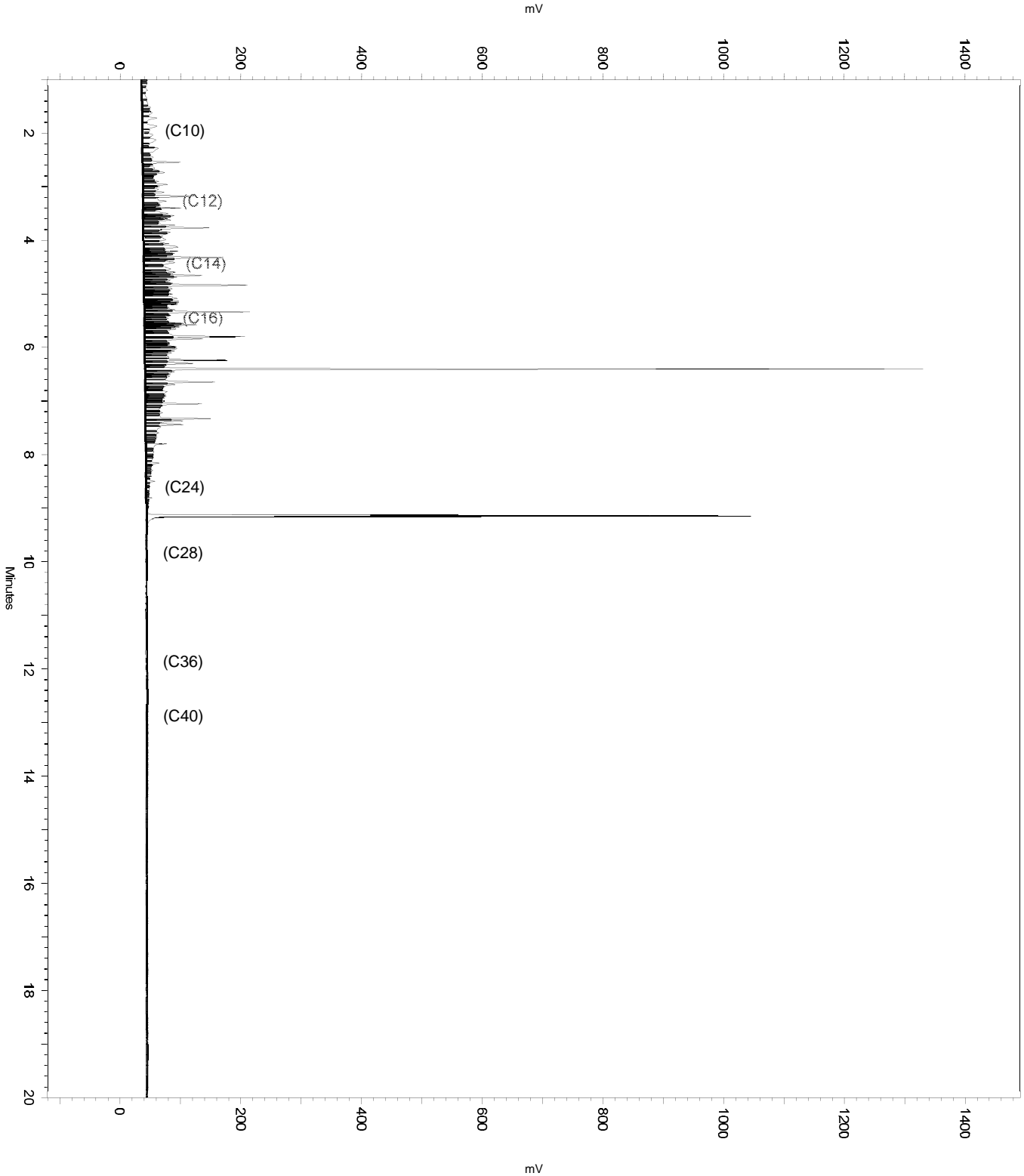
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b042

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.363	6.521	0
No	Split Peak	6.444	0	0
No	Manual Peak	9.092	9.333	0
No	Split Peak	9.245	0	0

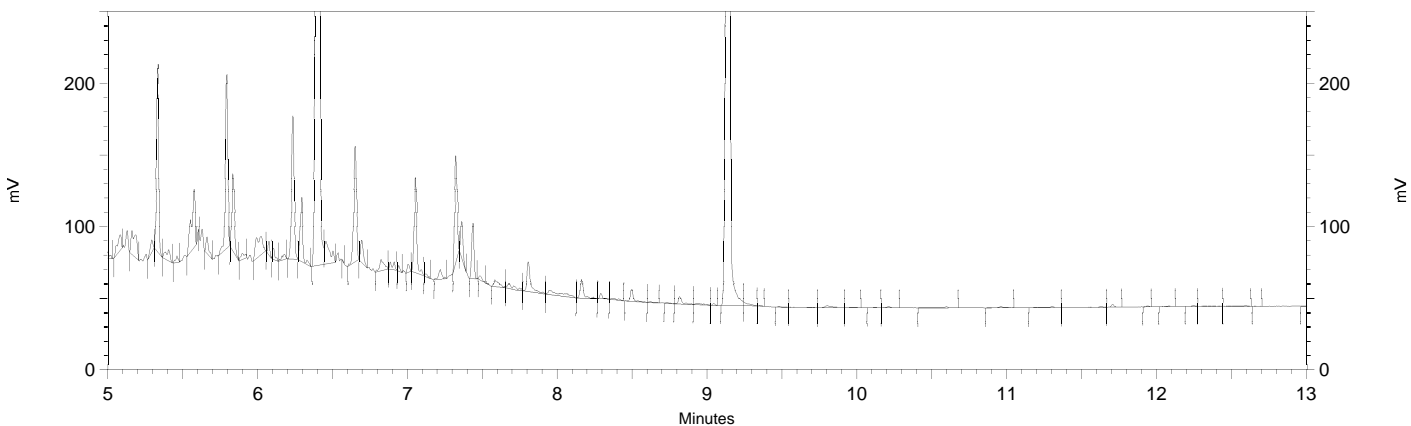
Sample Name: bsd,qc973536sg,269931
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b042
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/30/2019 2:13:13 AM
Analysis Date: 4/30/2019 10:03:05 AM
Instrument: GC14B Vial: 42 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **bsd,qc973536sg,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b042
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/30/2019 2:13:13 AM
 Analysis Date: 4/30/2019 9:57:33 AM
 Instrument: GC14B Vial: 42 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.410	1750278	35.328
Hexacosane	9.148	1554405	37.928



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

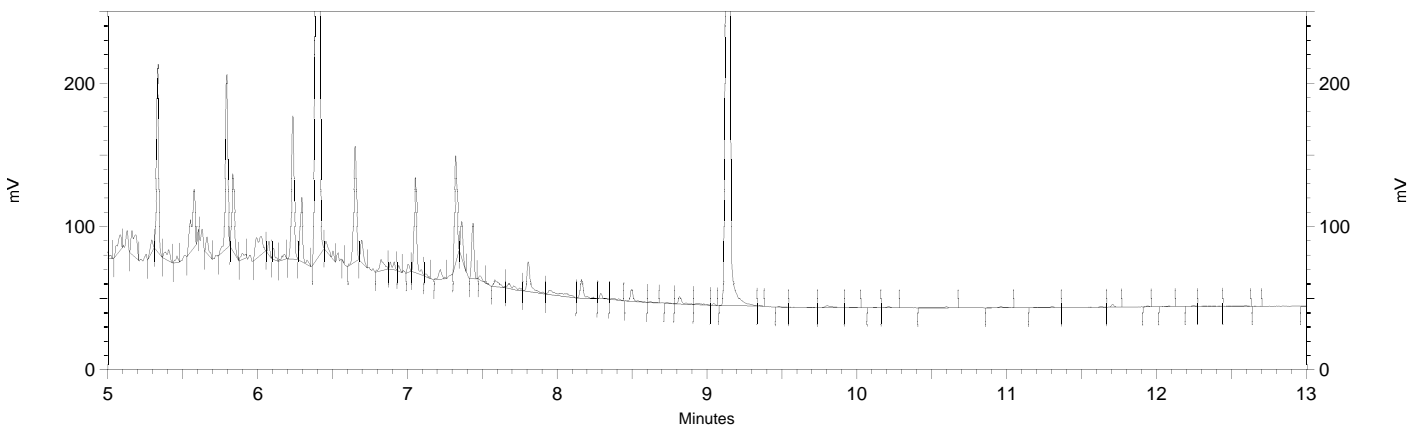
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b042

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.363	6.521	0
Yes	Split Peak	6.444	0	0
Yes	Manual Peak	9.092	9.333	0
Yes	Split Peak	9.245	0	0

Sample Name: **bsd,qc973536sg,269931**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b042
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/30/2019 2:13:13 AM
 Analysis Date: 4/30/2019 9:57:08 AM
 Instrument: GC14B Vial: 42 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.410	1725297	34.824
Hexacosane	9.148	1561144	38.092



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0          20         0
Yes Shoulder Sensitivity 0          20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b042
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 309066 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229121391002
 Units : mg/L

Name : BUNK_084 5PT
 Date : 25-MAR-2019 20:13
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	084_027	229121391027	BUNKC_250	25-MAR-2019 20:13	S40235
L2	084_028	229121391028	BUNKC_500	25-MAR-2019 20:40	S40224
L3	084_029	229121391029	BUNKC_1500	25-MAR-2019 21:08	S40223
L4	084_030	229121391030	BUNKC_2500	25-MAR-2019 21:35	S40222
L5	084_031	229121391031	BUNKC_5000	25-MAR-2019 22:03	S39008
L6	084_044	229121391044	BUNKC_50	26-MAR-2019 08:14	S40236

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Bunker C C12-C40	B	22866	22302	21890	21523	20712	23546	AVRG		4.52E-5		22140	5	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Bunker C C12-C40	B	250.00	3	500.00	1	1250.0	-1	2500.0	-3	5000.0	-6	50.000	6

TKY 03/26/19 : Corrected automatically drawn baseline in multiple levels.

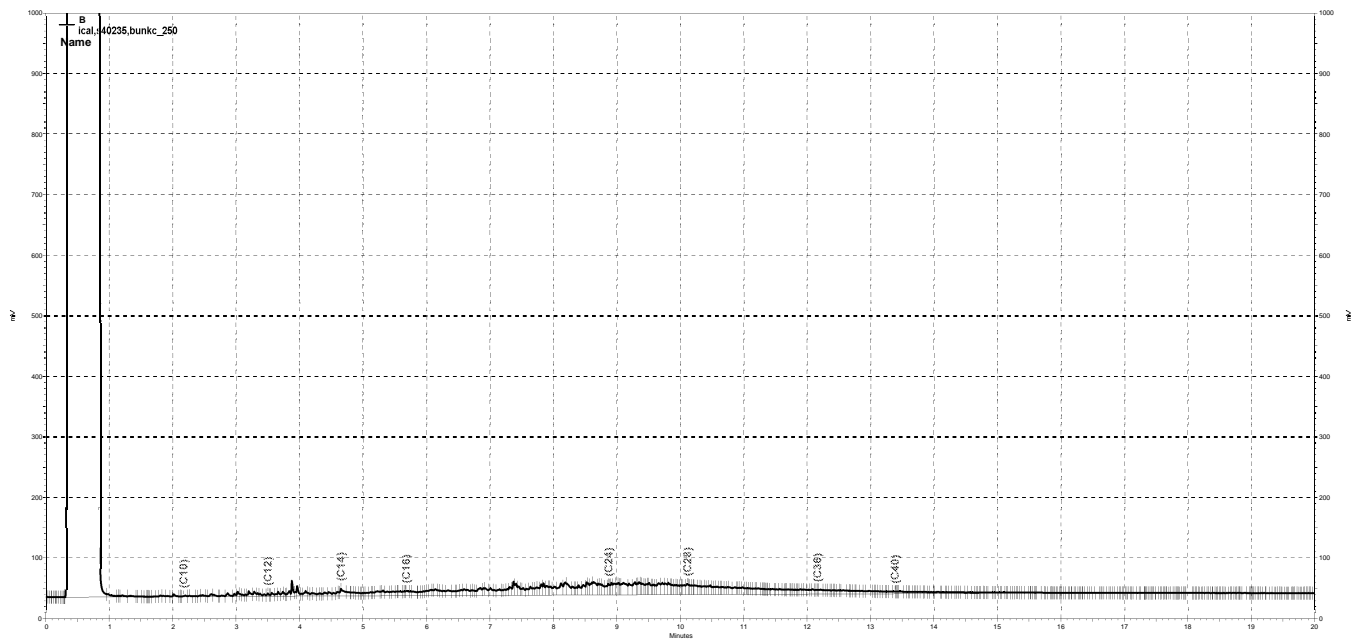
Analyst: TKY

Date: 03/26/19

Reviewer: EAH

Date: 03/26/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b027, B

Sample Name: ical,s40235,bunkc_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b027
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
 Run Date: 3/25/2019 8:13:49 PM
 Analysis Date: 3/26/2019 8:48:24 AM
 Instrument: GC14B Vial: 27 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	937466	0.000 CAL
DSL:10-14	562361	0.000 CAL
DSL:10-22	2480683	0.000 CAL
DSL:10-24	3092923	0.000 CAL
DSL:10-28	4362546	0.000 CAL
DSL:12-24	2932198	0.000 CAL
DSL:12-28	4201821	0.000 CAL
DSL:14-24	2602778	0.000 CAL
DSL:16-24	2219775	0.000 CAL
MO:22-32	2818169	0.000 CAL
MO:24-36	2554702	0.000 CAL
MO:28-40	1674382	0.000 CAL
BUNKC:10-40	5877313	250.000 CAL
BUNKC:12-40	5716588	250.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

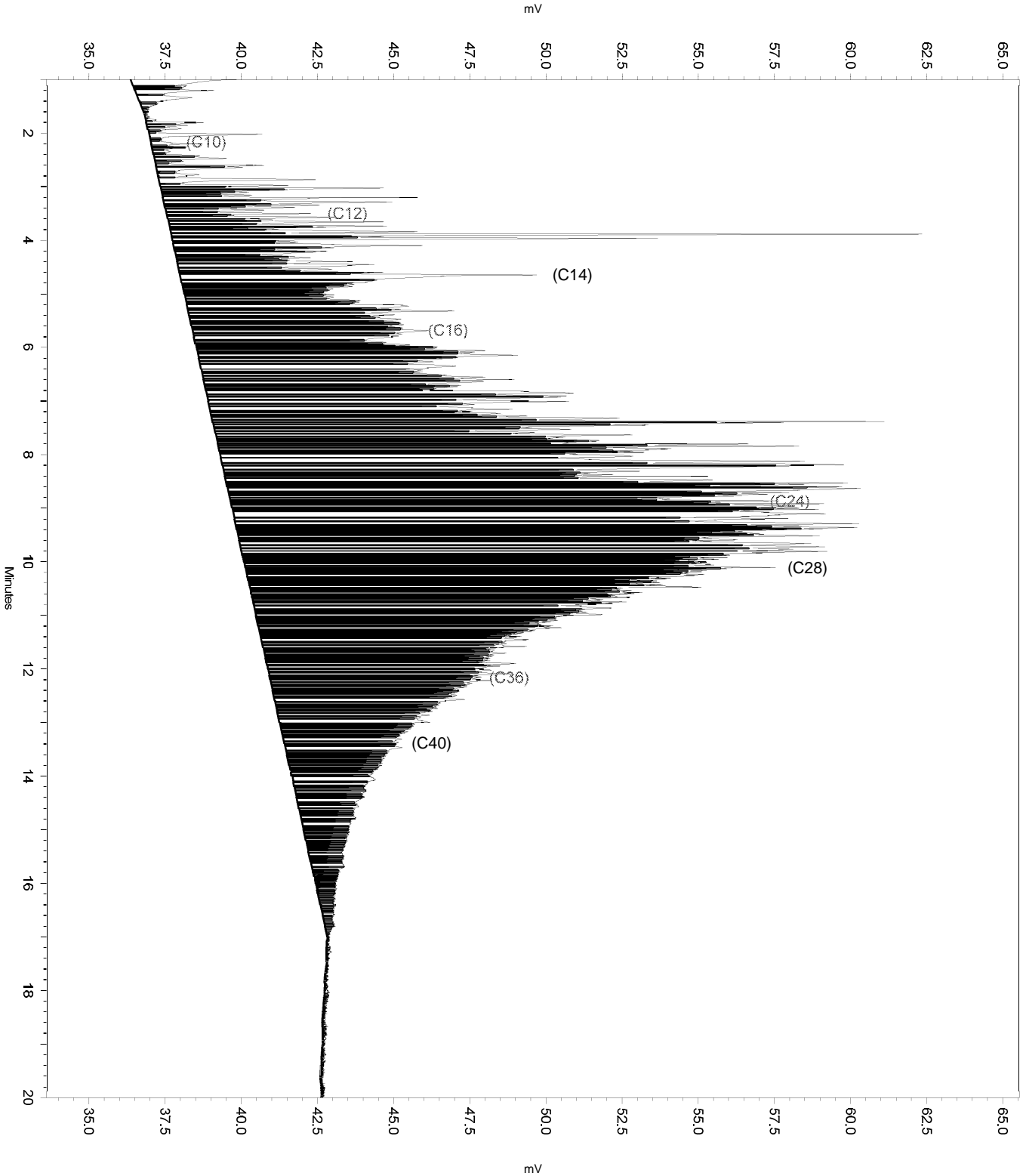
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	2.388	17.071	0

Sample Name: ical,s40235,bunkc_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b027
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
Run Date: 3/25/2019 8:13:49 PM
Analysis Date: 3/26/2019 8:48:24 AM
Instrument: GC14B Vial: 27 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40235,bunkc_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b027
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
 Run Date: 3/25/2019 8:13:49 PM
 Analysis Date: 3/26/2019 8:04:57 AM
 Instrument: GC14B Vial: 27 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	539296	0.000 CAL
DSL:10-14	366048	0.000 CAL
DSL:10-22	1292291	0.000 CAL
DSL:10-24	1628996	0.000 CAL
DSL:10-28	2279586	0.000 CAL
DSL:12-24	1512320	0.000 CAL
DSL:12-28	2162910	0.000 CAL
DSL:14-24	1308932	0.000 CAL
DSL:16-24	1119178	0.000 CAL
MO:22-32	1255279	0.000 CAL
MO:24-36	889512	0.000 CAL
MO:28-40	263031	0.000 CAL
BUNKC:10-40	2474676	250.000 CAL
BUNKC:12-40	2358000	250.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

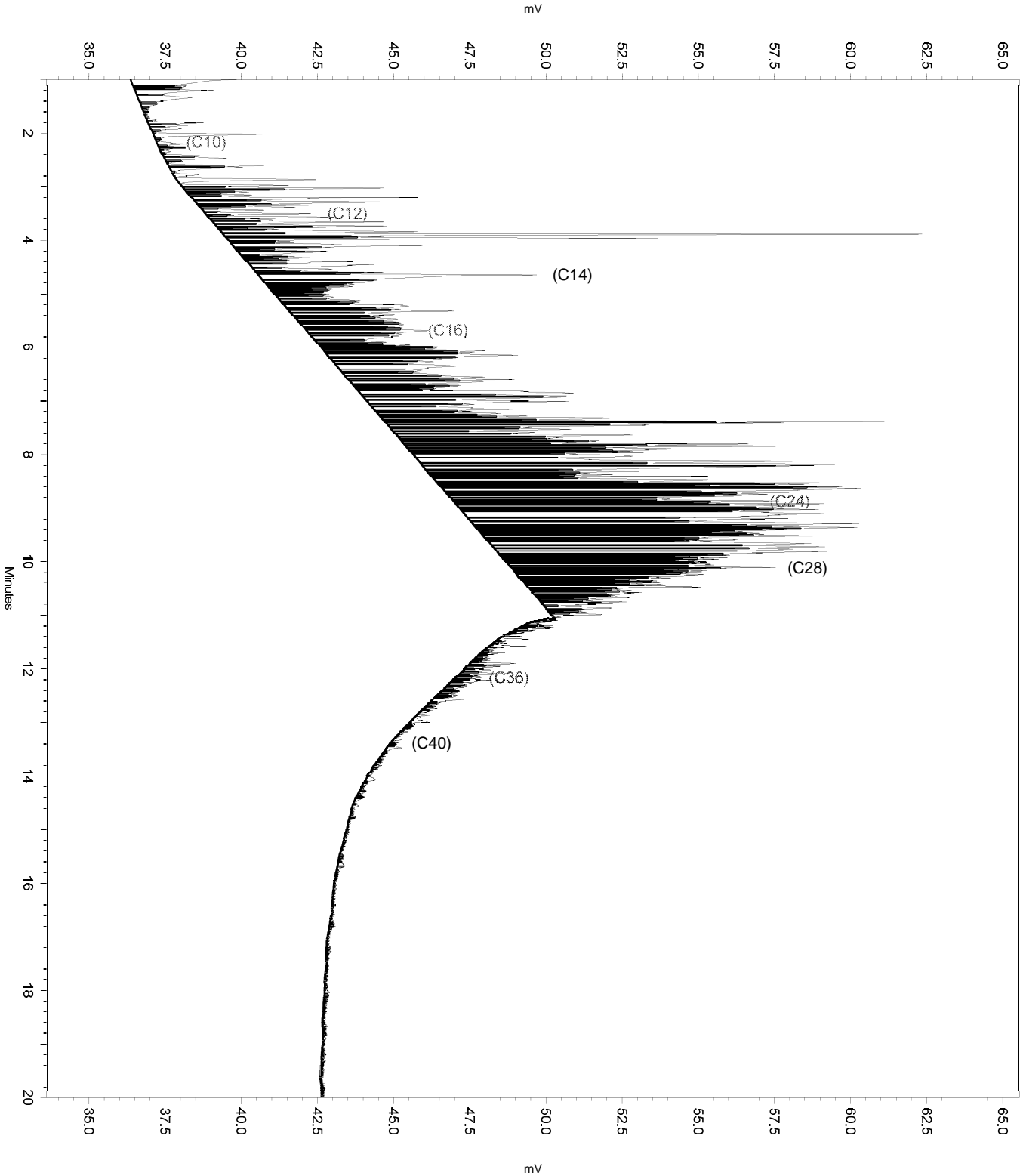
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

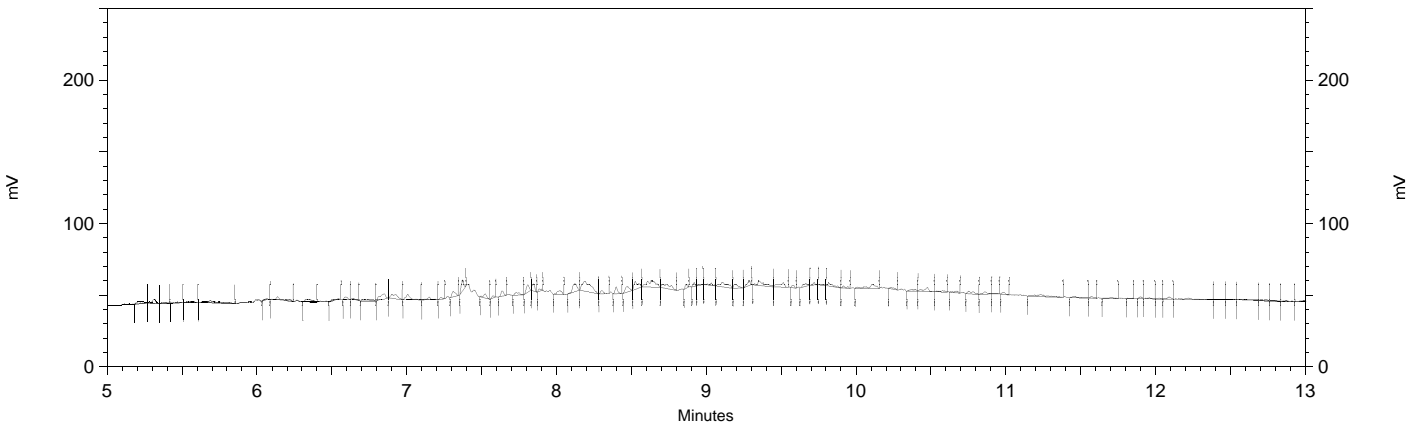
Sample Name: ical,s40235,bunkc_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b027
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
Run Date: 3/25/2019 8:13:49 PM
Analysis Date: 3/26/2019 8:04:57 AM
Instrument: GC14B Vial: 27 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40235,bunkc_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b027
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_080.met
 Run Date: 3/25/2019 8:13:49 PM
 Analysis Date: 3/25/2019 8:33:58 PM
 Instrument: GC14B Vial: 27 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.853	9968	0.220
Hexacosane	9.577	2013	0.053



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

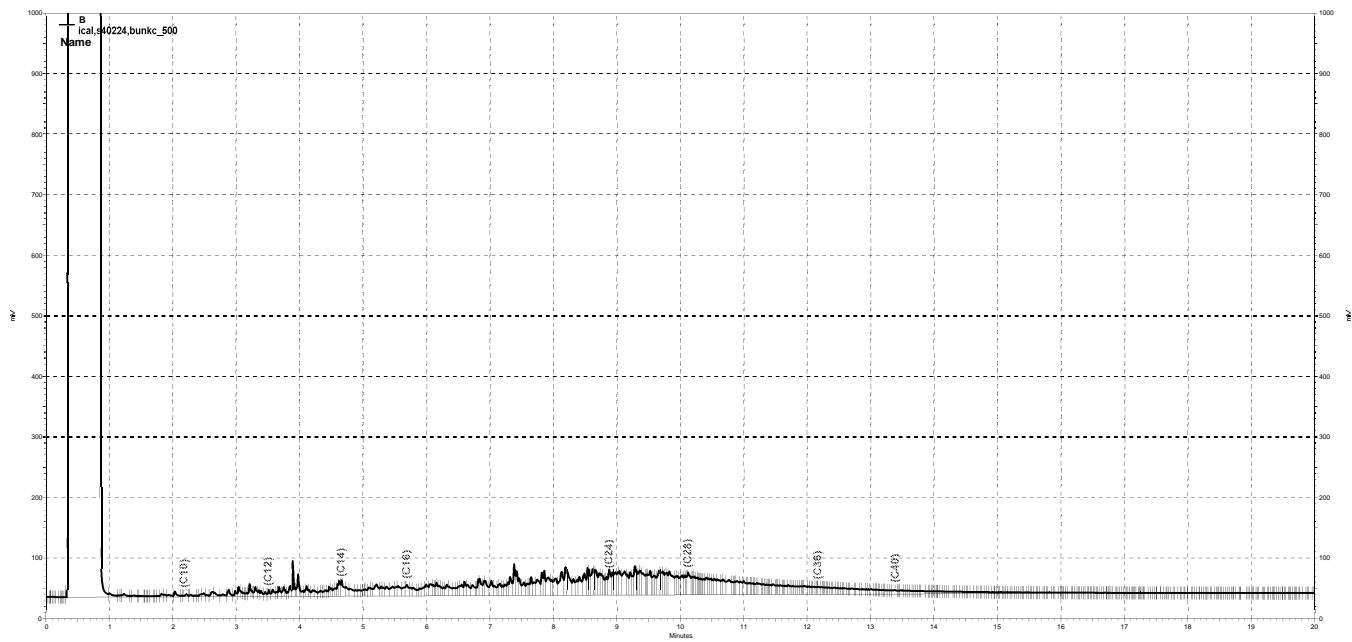
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\084b027_C63C.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b028, B

Sample Name: ical,s40224,bunkc_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b028
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
 Run Date: 3/25/2019 8:40:54 PM
 Analysis Date: 3/26/2019 8:48:30 AM
 Instrument: GC14B Vial: 28 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2047899	0.000 CAL
DSL:10-14	1250955	0.000 CAL
DSL:10-22	5022373	0.000 CAL
DSL:10-24	6223684	0.000 CAL
DSL:10-28	8695074	0.000 CAL
DSL:12-24	5836838	0.000 CAL
DSL:12-28	8308228	0.000 CAL
DSL:14-24	5122581	0.000 CAL
DSL:16-24	4308263	0.000 CAL
MO:22-32	5546632	0.000 CAL
MO:24-36	4982536	0.000 CAL
MO:28-40	3091715	0.000 CAL
BUNKC:10-40	11537651	500.000 CAL
BUNKC:12-40	11150805	500.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

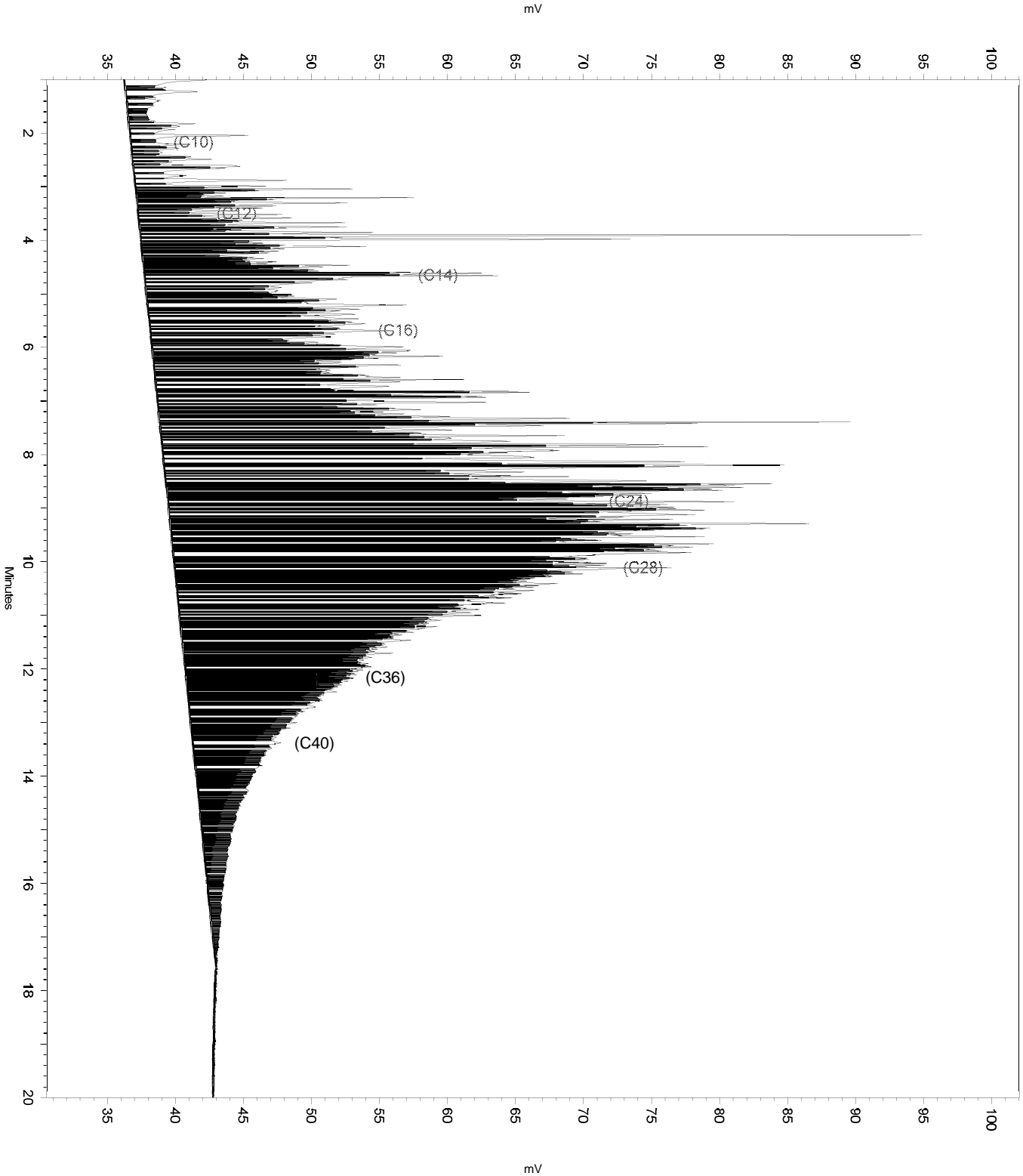
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

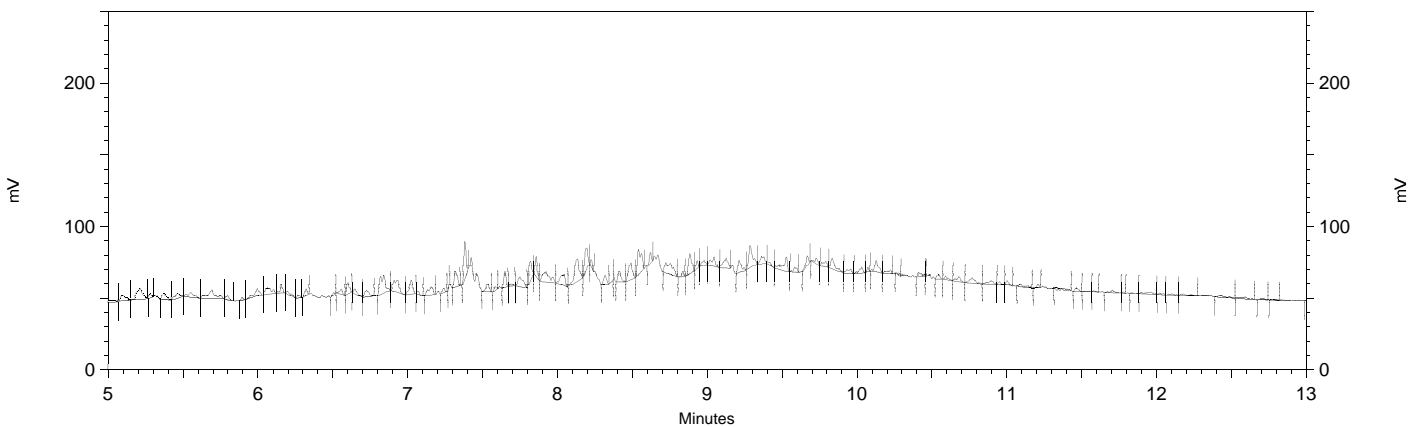
Sample Name: ical,s40224,bunc_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b028
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
Run Date: 3/25/2019 8:40:54 PM
Analysis Date: 3/26/2019 8:48:30 AM
Instrument: GC14B Vial: 28 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40224,bunkc_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b028
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_080.met
 Run Date: 3/25/2019 8:40:54 PM
 Analysis Date: 3/25/2019 9:01:03 PM
 Instrument: GC14B Vial: 28 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.840	31580	0.698
Hexacosane	9.527	19604	0.515



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

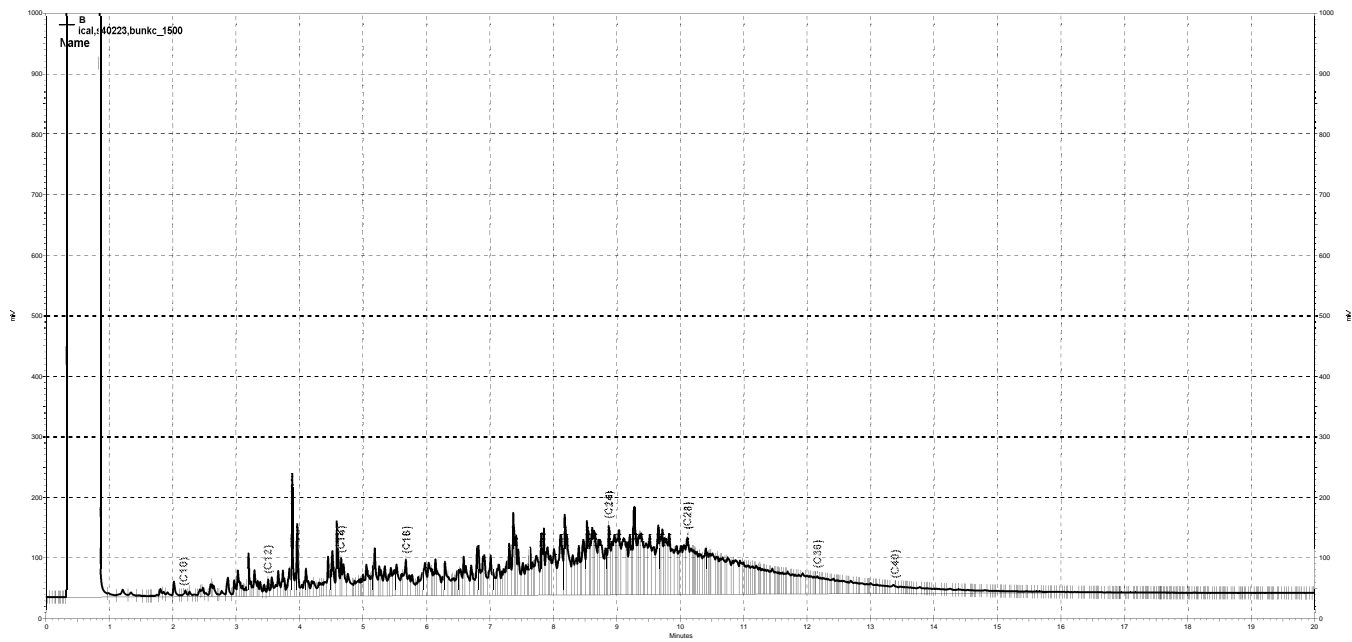
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\084b028_C63D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b029, B

Sample Name: ical,s40223,bunkc_1500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b029
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
 Run Date: 3/25/2019 9:08:27 PM
 Analysis Date: 3/26/2019 8:48:36 AM
 Instrument: GC14B Vial: 29 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	5295733	0.000 CAL
DSL:10-14	3342602	0.000 CAL
DSL:10-22	12419294	0.000 CAL
DSL:10-24	15390784	0.000 CAL
DSL:10-28	21657932	0.000 CAL
DSL:12-24	14474128	0.000 CAL
DSL:12-28	20741280	0.000 CAL
DSL:14-24	12575549	0.000 CAL
DSL:16-24	10426605	0.000 CAL
MO:22-32	13792029	0.000 CAL
MO:24-36	12230391	0.000 CAL
MO:28-40	7369416	0.000 CAL
BUNKC:10-40	28279724	1250.000 CAL
BUNKC:12-40	27363072	1250.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

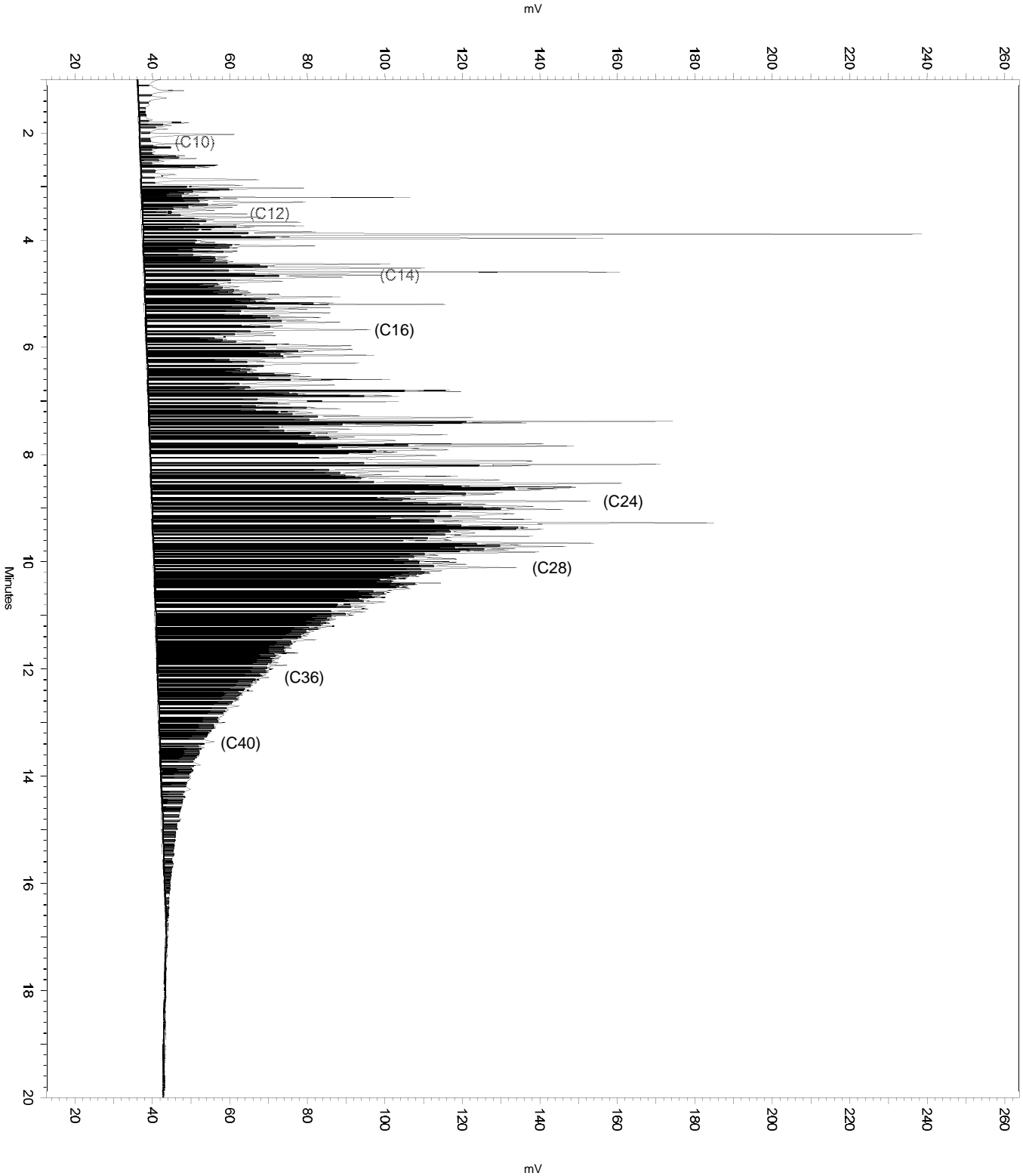
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	15.397	17.005	0

Sample Name: ical,s40223,bunkc_1500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b029
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
Run Date: 3/25/2019 9:08:27 PM
Analysis Date: 3/26/2019 8:48:36 AM
Instrument: GC14B Vial: 29 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40223,bunkc_1500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b029
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
 Run Date: 3/25/2019 9:08:27 PM
 Analysis Date: 3/26/2019 8:05:37 AM
 Instrument: GC14B Vial: 29 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	5175474	0.000 CAL
DSL:10-14	3268071	0.000 CAL
DSL:10-22	12143322	0.000 CAL
DSL:10-24	15065222	0.000 CAL
DSL:10-28	21225312	0.000 CAL
DSL:12-24	14177285	0.000 CAL
DSL:12-28	20337376	0.000 CAL
DSL:14-24	12317415	0.000 CAL
DSL:16-24	10213274	0.000 CAL
MO:22-32	13515846	0.000 CAL
MO:24-36	11911035	0.000 CAL
MO:28-40	7011946	0.000 CAL
BUNKC:10-40	27504308	1250.000 CAL
BUNKC:12-40	26616372	1250.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

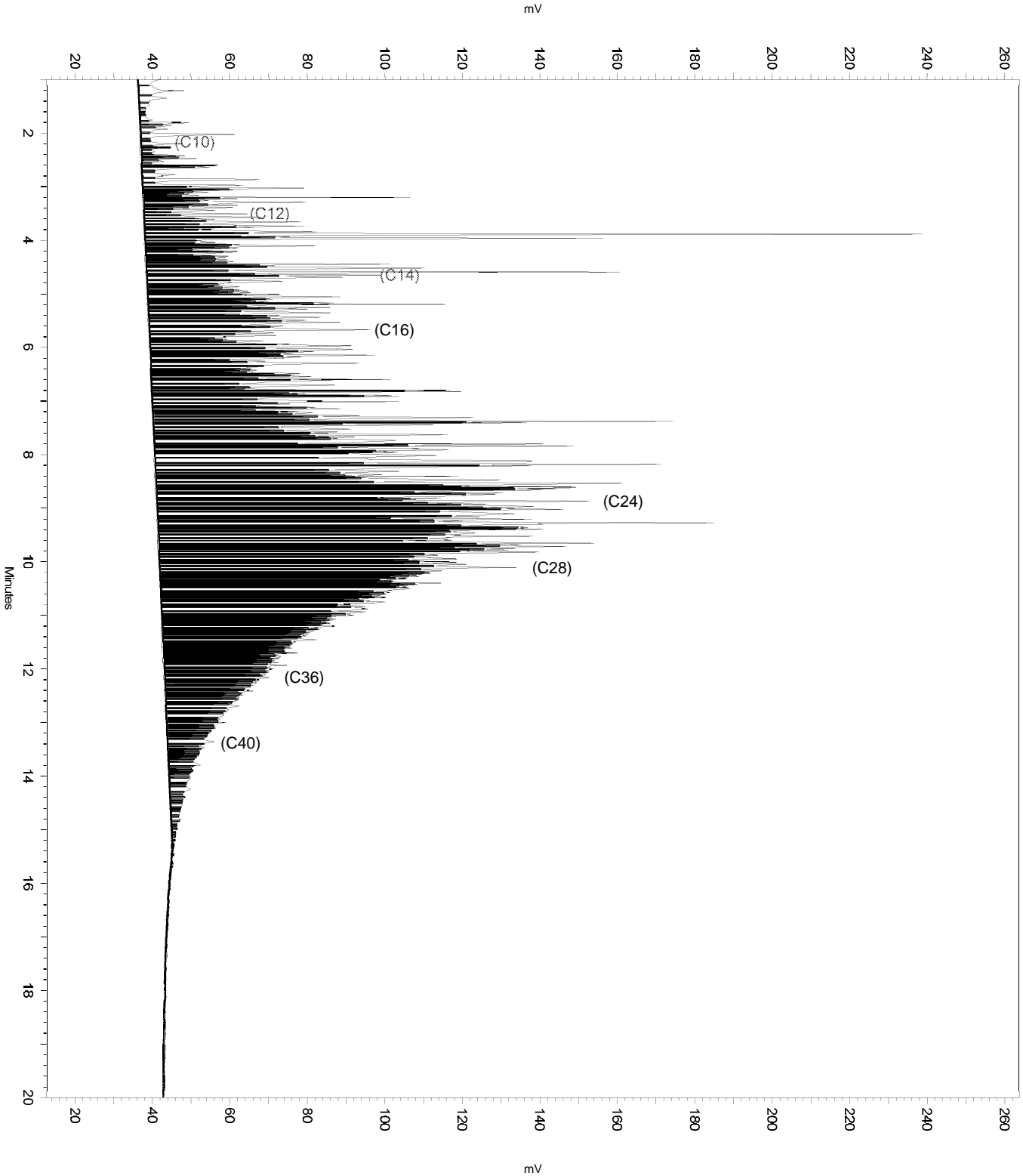
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

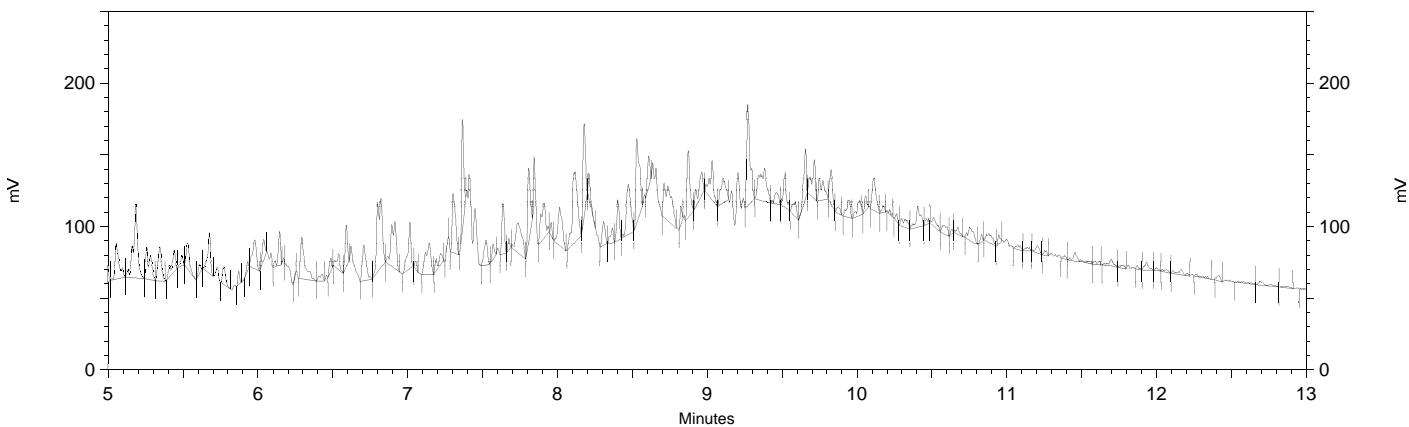
Sample Name: ical,s40223,bunc_1500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b029
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
Run Date: 3/25/2019 9:08:27 PM
Analysis Date: 3/26/2019 8:05:37 AM
Instrument: GC14B Vial: 29 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40223,bunkc_1500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b029
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_080.met
 Run Date: 3/25/2019 9:08:27 PM
 Analysis Date: 3/25/2019 9:28:36 PM
 Instrument: GC14B Vial: 29 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.822	117243	2.591
Hexacosane	9.518	32177	0.845



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

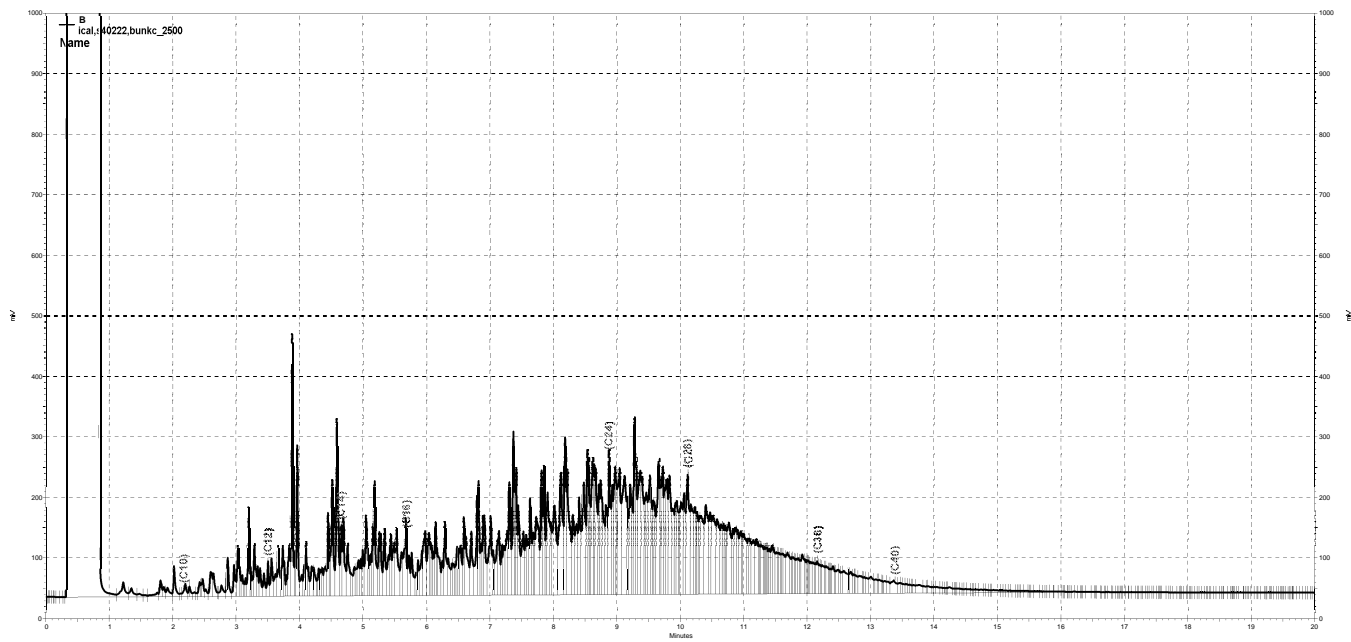
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\084b029_C63E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b030, B

Sample Name: ical,s40222,bunkc_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
 Run Date: 3/25/2019 9:35:38 PM
 Analysis Date: 3/26/2019 8:48:42 AM
 Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	10591271	0.000 CAL
DSL:10-14	6690664	0.000 CAL
DSL:10-22	24610738	0.000 CAL
DSL:10-24	30647880	0.000 CAL
DSL:10-28	43223400	0.000 CAL
DSL:12-24	28856176	0.000 CAL
DSL:12-28	41431696	0.000 CAL
DSL:14-24	25062212	0.000 CAL
DSL:16-24	20694096	0.000 CAL
MO:22-32	27444644	0.000 CAL
MO:24-36	24148792	0.000 CAL
MO:28-40	13867010	0.000 CAL
BUNKC:10-40	55600284	2500.000 CAL
BUNKC:12-40	53808580	2500.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

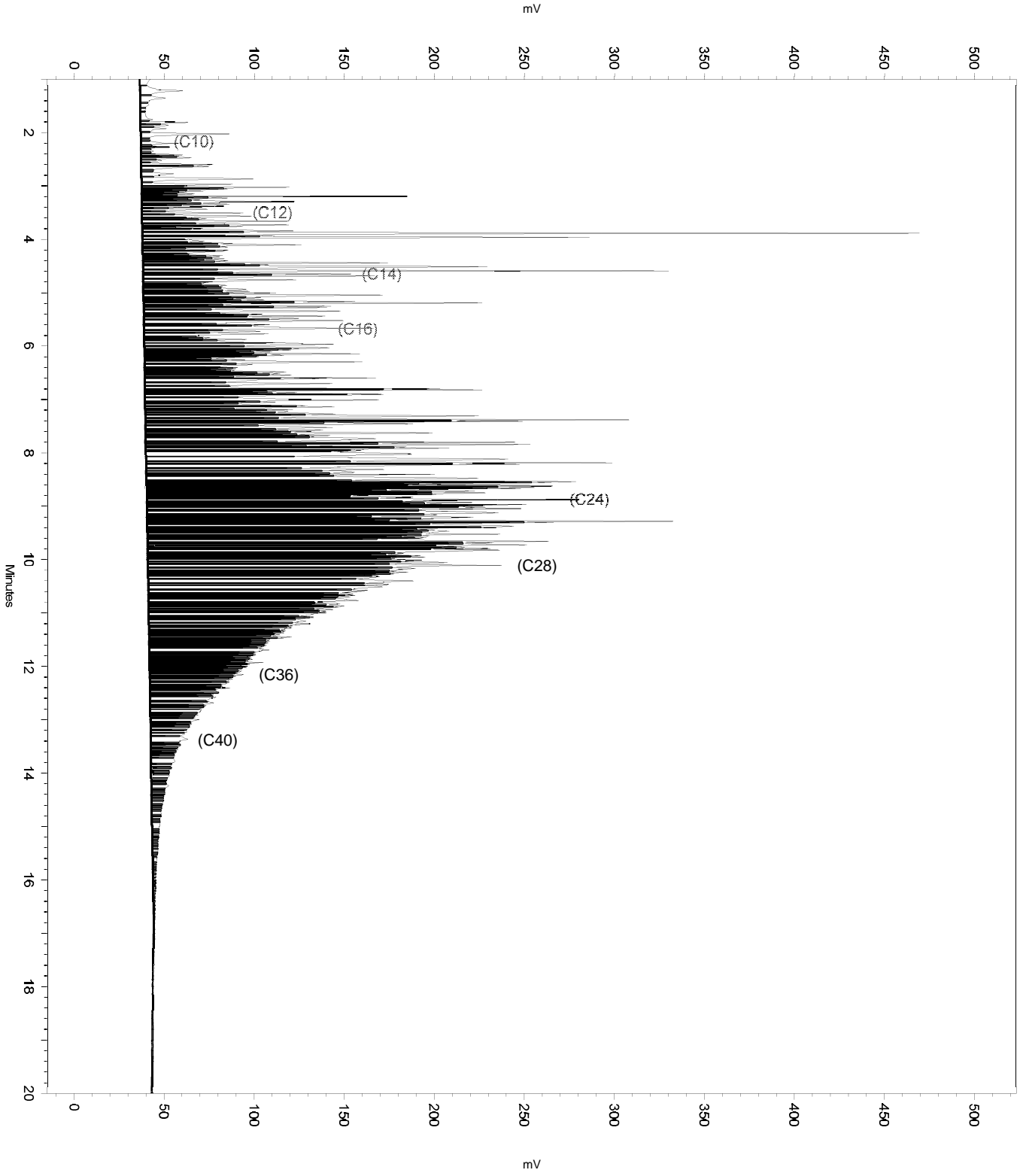
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	13.048	16.938	0

Sample Name: ical,s40222,bunkc_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b030
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
Run Date: 3/25/2019 9:35:38 PM
Analysis Date: 3/26/2019 8:48:42 AM
Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40222,bunkc_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
 Run Date: 3/25/2019 9:35:38 PM
 Analysis Date: 3/26/2019 8:06:03 AM
 Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	9238148	0.000 CAL
DSL:10-14	5853006	0.000 CAL
DSL:10-22	21502380	0.000 CAL
DSL:10-24	26973808	0.000 CAL
DSL:10-28	38341184	0.000 CAL
DSL:12-24	25504820	0.000 CAL
DSL:12-28	36872192	0.000 CAL
DSL:14-24	22146612	0.000 CAL
DSL:16-24	18280968	0.000 CAL
MO:22-32	24351520	0.000 CAL
MO:24-36	20544914	0.000 CAL
MO:28-40	9970488	0.000 CAL
BUNKC:10-40	46986984	2500.000 CAL
BUNKC:12-40	45517992	2500.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

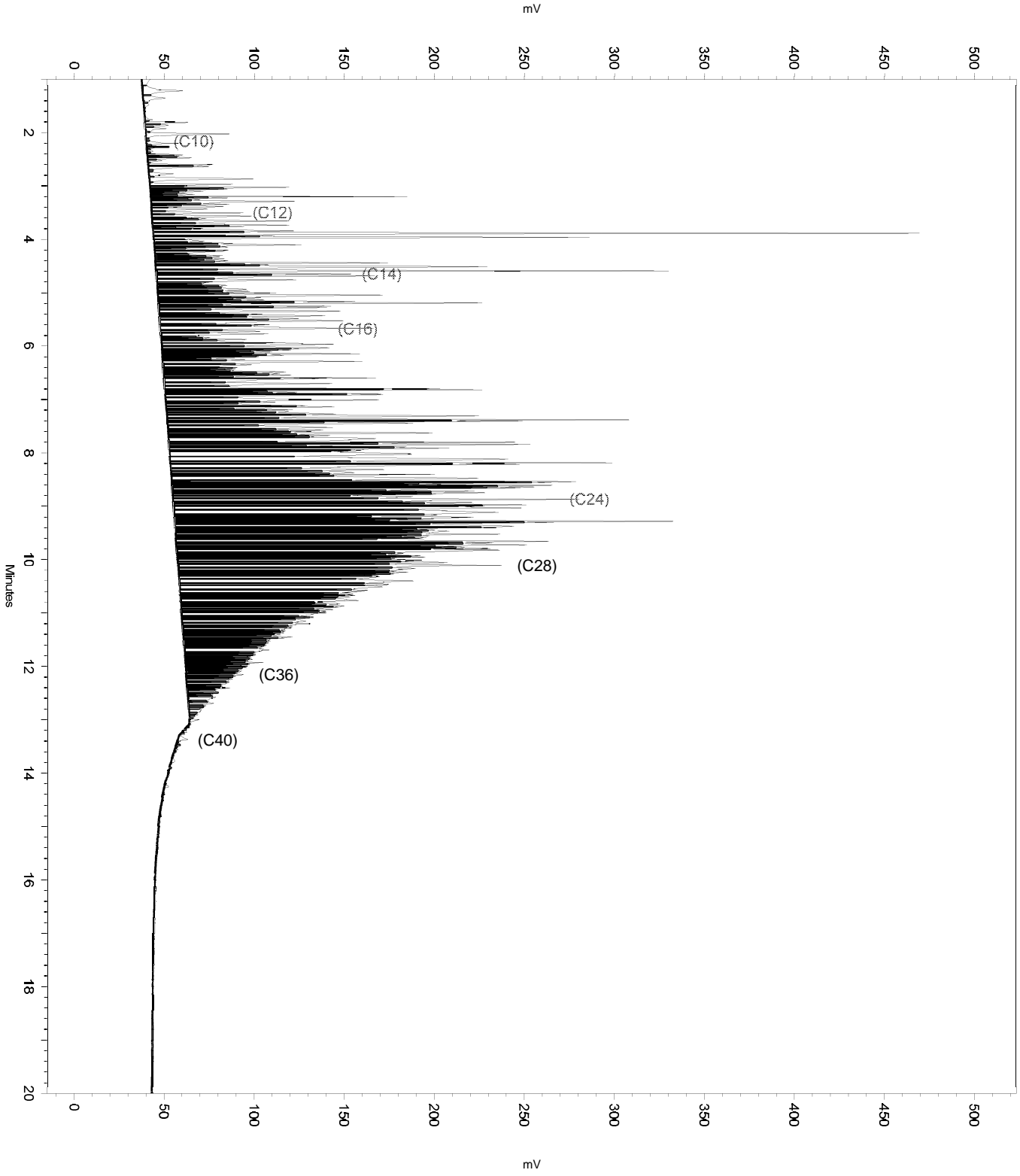
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

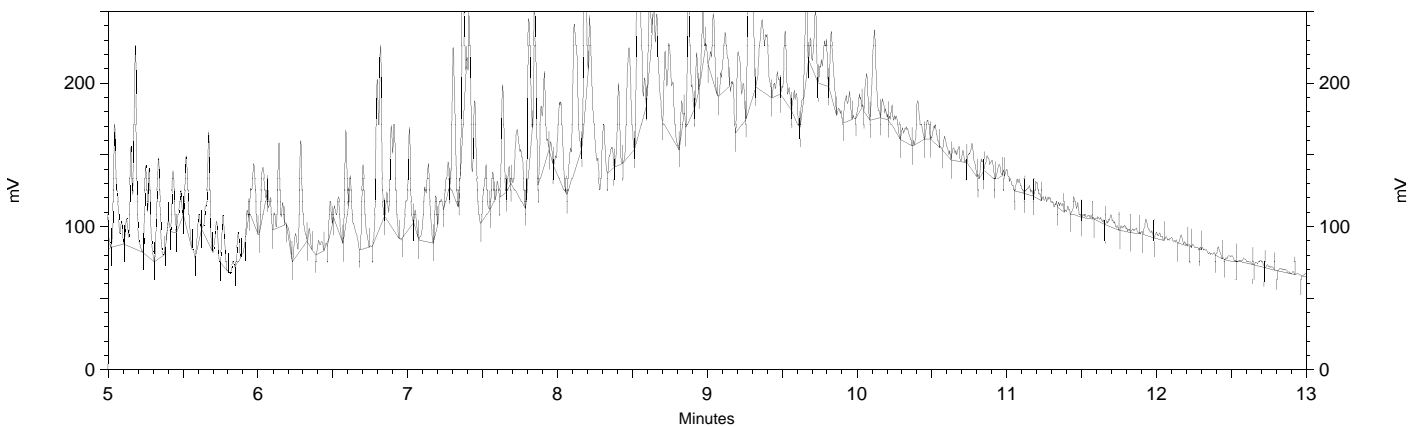
Sample Name: ical,s40222,bunc_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b030
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
Run Date: 3/25/2019 9:35:38 PM
Analysis Date: 3/26/2019 8:06:03 AM
Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40222,bunkc_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_080.met
 Run Date: 3/25/2019 9:35:38 PM
 Analysis Date: 3/25/2019 9:55:47 PM
 Instrument: GC14B Vial: 30 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.818	263839	5.830
Hexacosane	9.518	70620	1.854



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

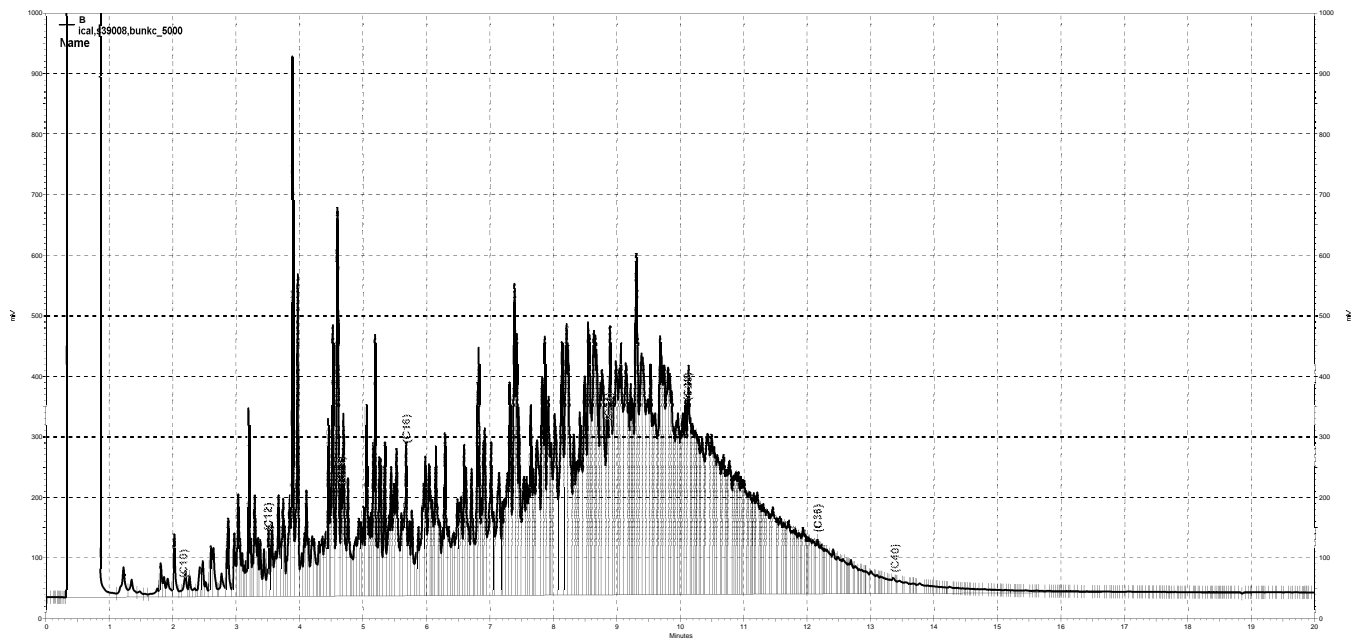
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\084b030_C63F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b031, B

Sample Name: ical,s39008,bunkc_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
 Run Date: 3/25/2019 10:03:26 PM
 Analysis Date: 3/26/2019 8:48:48 AM
 Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	21592078	0.000 CAL
DSL:10-14	13823377	0.000 CAL
DSL:10-22	49169432	0.000 CAL
DSL:10-24	60497772	0.000 CAL
DSL:10-28	84689872	0.000 CAL
DSL:12-24	56850956	0.000 CAL
DSL:12-28	81043056	0.000 CAL
DSL:14-24	49009708	0.000 CAL
DSL:16-24	40141204	0.000 CAL
MO:22-32	52853188	0.000 CAL
MO:24-36	45605544	0.000 CAL
MO:28-40	25323344	0.000 CAL
BUNKC:10-40	107208776	5000.000 CAL
BUNKC:12-40	103561960	5000.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

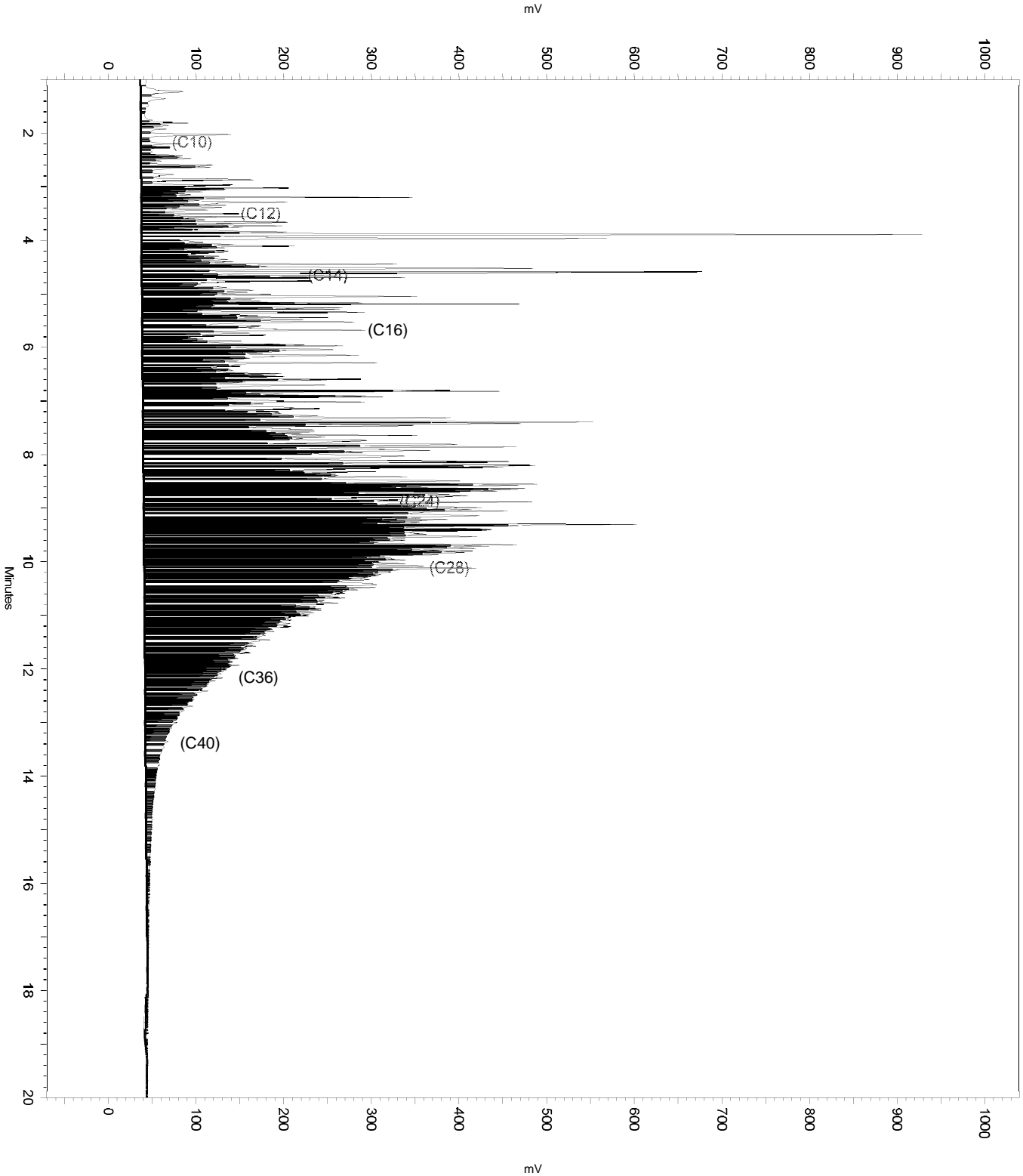
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	1.607	18.089	0

Sample Name: ical,s39008,bunc_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b031
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
Run Date: 3/25/2019 10:03:26 PM
Analysis Date: 3/26/2019 8:48:48 AM
Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39008,bunkc_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
 Run Date: 3/25/2019 10:03:26 PM
 Analysis Date: 3/26/2019 8:47:31 AM
 Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	15878603	0.000 CAL
DSL:10-14	10741478	0.000 CAL
DSL:10-22	29463700	0.000 CAL
DSL:10-24	34809636	0.000 CAL
DSL:10-28	44106492	0.000 CAL
DSL:12-24	32049504	0.000 CAL
DSL:12-28	41346356	0.000 CAL
DSL:14-24	26021332	0.000 CAL
DSL:16-24	19678924	0.000 CAL
MO:22-32	18198056	0.000 CAL
MO:24-36	12022055	0.000 CAL
MO:28-40	2740373	0.000 CAL
BUNKC:10-40	46165652	5000.000 CAL
BUNKC:12-40	43405516	5000.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

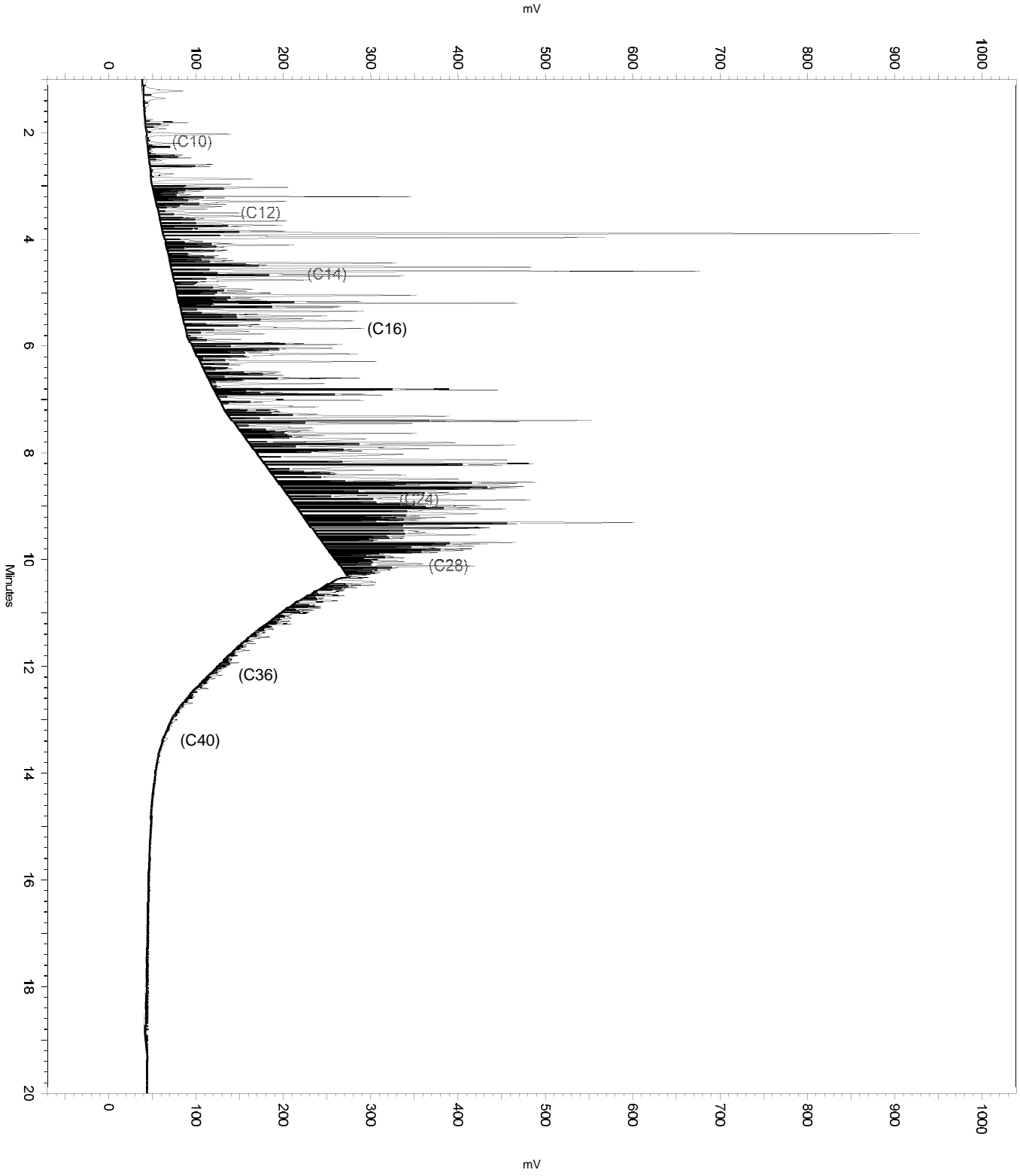
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Stop	1.607	16.994	0

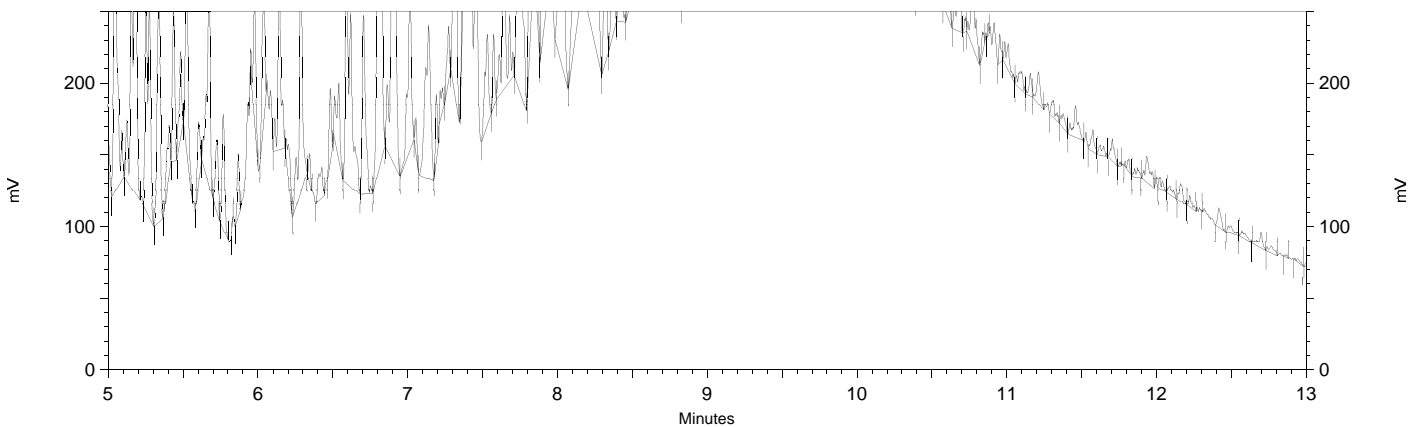
Sample Name: ical,s39008,bunc_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b031
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
Run Date: 3/25/2019 10:03:26 PM
Analysis Date: 3/26/2019 8:47:31 AM
Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39008,bunkc_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_080.met
 Run Date: 3/25/2019 10:03:26 PM
 Analysis Date: 3/25/2019 10:23:35 PM
 Instrument: GC14B Vial: 31 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.823	610800	13.496
Hexacosane	9.532	107538	2.823



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

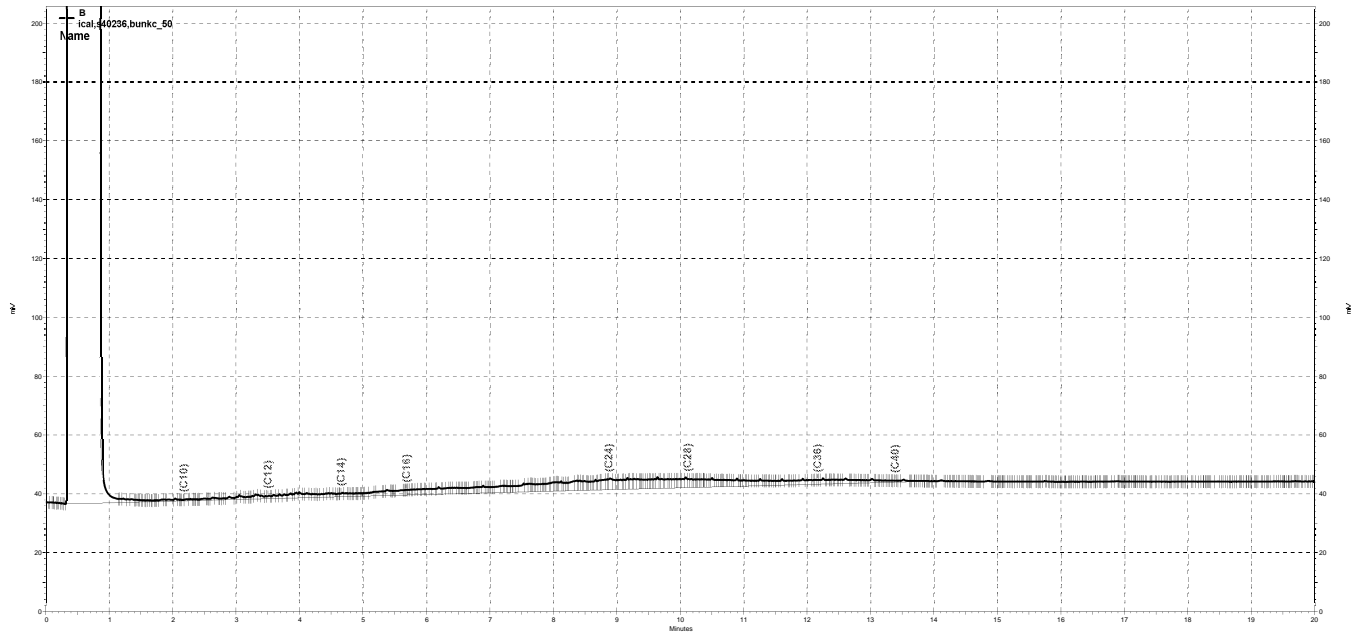
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\084b031_C640.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b044, B

Sample Name: ical,s40236,bunkc_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b044
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
 Run Date: 3/26/2019 8:14:21 AM
 Analysis Date: 3/26/2019 8:48:54 AM
 Instrument: GC14B Vial: 44 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	221800	0.000 CAL
DSL:10-14	144165	0.000 CAL
DSL:10-22	550946	0.000 CAL
DSL:10-24	692713	0.000 CAL
DSL:10-28	923087	0.000 CAL
DSL:12-24	638542	0.000 CAL
DSL:12-28	868916	0.000 CAL
DSL:14-24	560493	0.000 CAL
DSL:16-24	492674	0.000 CAL
MO:22-32	544622	0.000 CAL
MO:24-36	507016	0.000 CAL
MO:28-40	342623	0.000 CAL
BUNKC:10-40	1231485	50.000 CAL
BUNKC:12-40	1177314	50.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

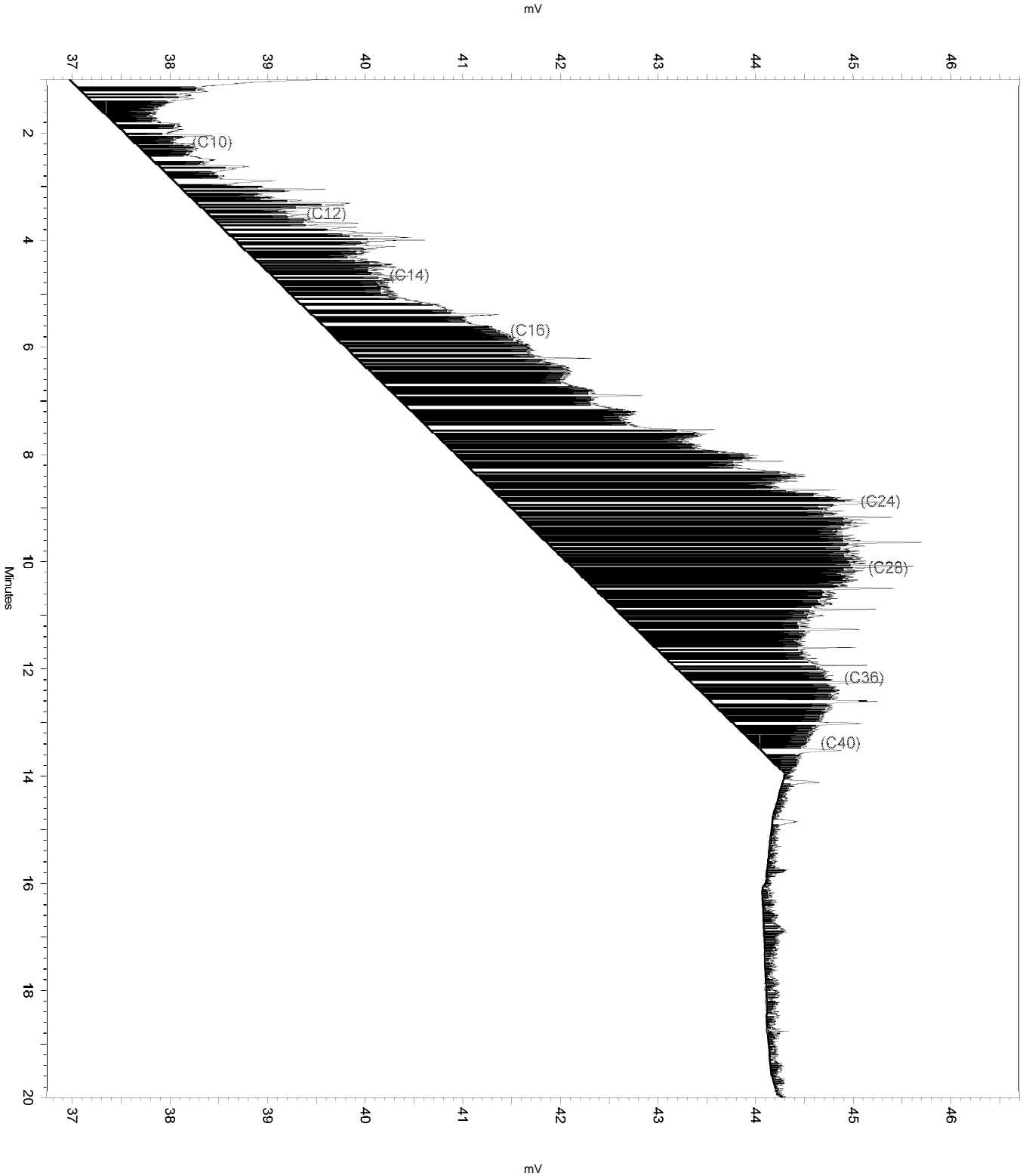
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b044

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	2.43	13.977	0

Sample Name: ical,s40236,bunkc_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b044
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
Run Date: 3/26/2019 8:14:21 AM
Analysis Date: 3/26/2019 8:48:54 AM
Instrument: GC14B Vial: 44 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40236,bunkc_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b044
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
 Run Date: 3/26/2019 8:14:21 AM
 Analysis Date: 3/26/2019 8:45:13 AM
 Instrument: GC14B Vial: 44 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	50850	0.000 CAL
DSL:10-14	41886	0.000 CAL
DSL:10-22	194537	0.000 CAL
DSL:10-24	292764	0.000 CAL
DSL:10-28	462220	0.000 CAL
DSL:12-24	273765	0.000 CAL
DSL:12-28	443221	0.000 CAL
DSL:14-24	252777	0.000 CAL
DSL:16-24	244562	0.000 CAL
MO:22-32	388374	0.000 CAL
MO:24-36	364511	0.000 CAL
MO:28-40	241066	0.000 CAL
BUNKC:10-40	677709	50.000 CAL
BUNKC:12-40	658710	50.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

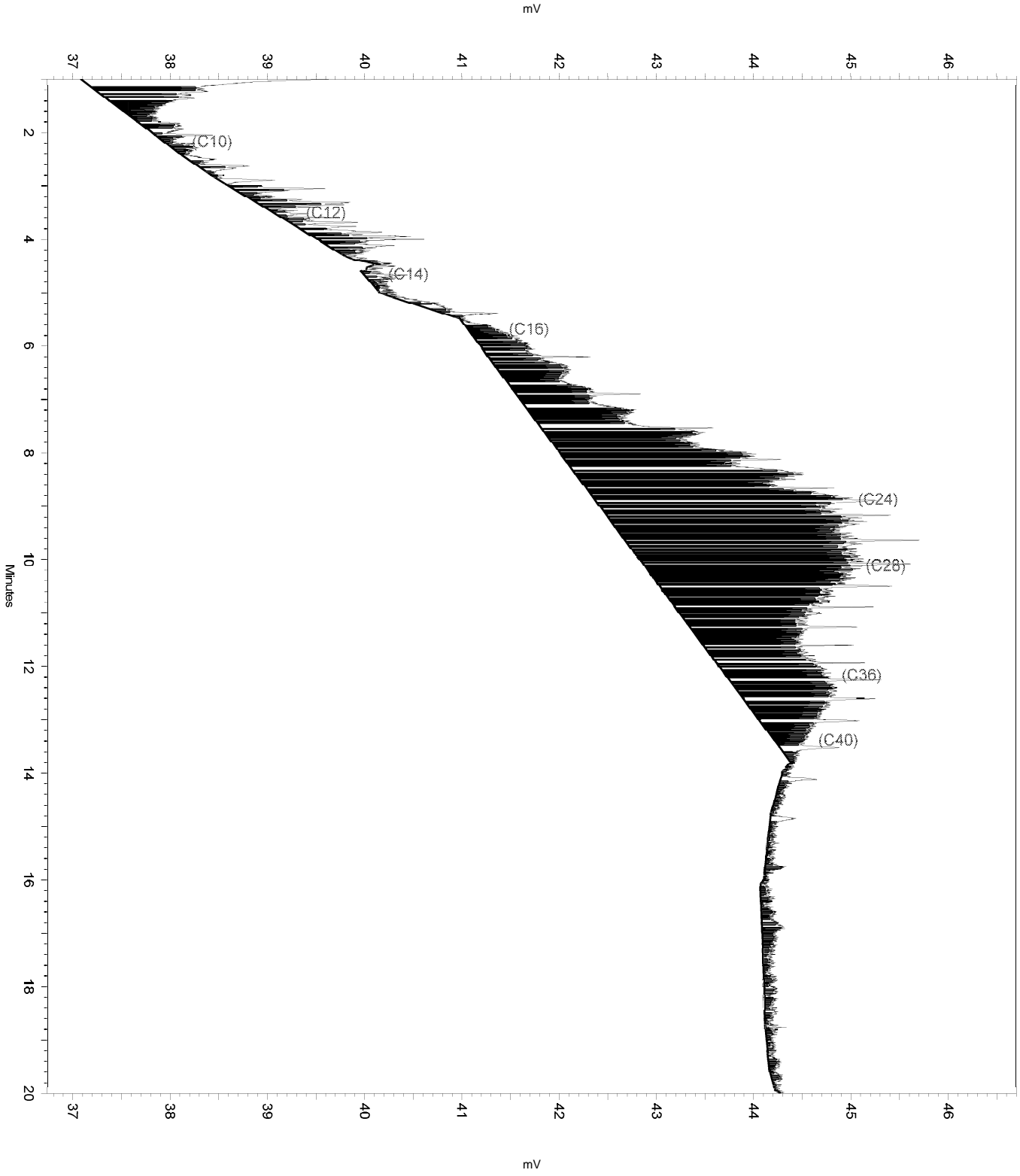
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b044

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Move BL Stop	2.43	17.027	0

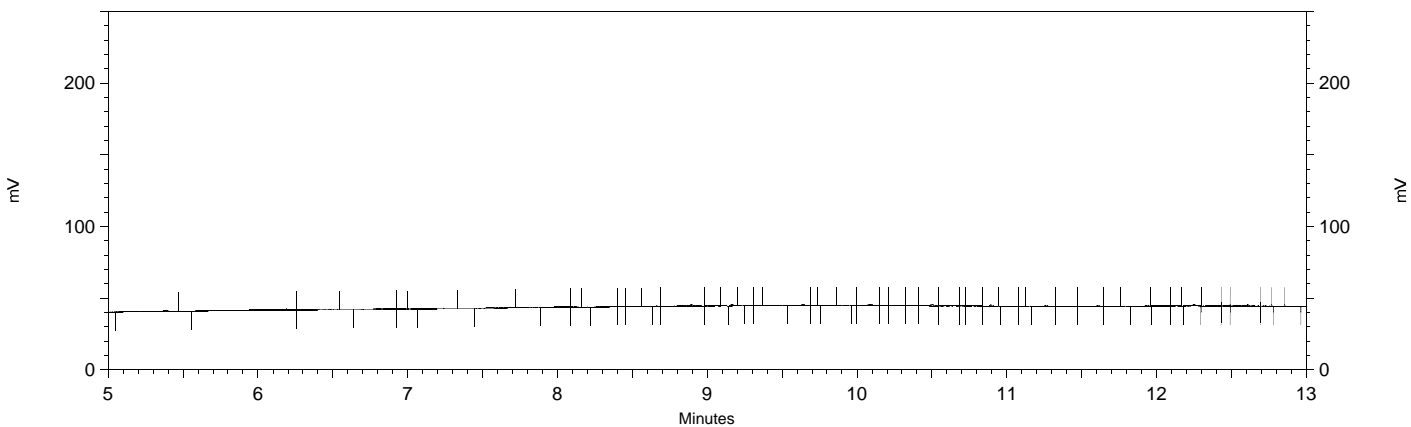
Sample Name: ical,s40236,bunkc_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b044
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_084.met
Run Date: 3/26/2019 8:14:21 AM
Analysis Date: 3/26/2019 8:45:13 AM
Instrument: GC14B Vial: 44 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40236,bunkc_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\084b044
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\084.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_080.met
 Run Date: 3/26/2019 8:14:21 AM
 Analysis Date: 3/26/2019 8:34:30 AM
 Instrument: GC14B Vial: 44 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane			0.000 BDL



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\084b044_C651.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY INITIAL CALIBRATION FOR 309066 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229137260002
 Units : mg/L

Name : DSL_095
 Date : 05-APR-2019 19:13
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	095_019	229137260019	DSL_10	05-APR-2019 19:13	S40131
L2	095_020	229137260020	DSL_100	05-APR-2019 19:40	S39770
L3	095_021	229137260021	DSL_500	05-APR-2019 20:08	S40082
L4	095_022	229137260022	DSL_1000	05-APR-2019 20:35	S40083
L5	095_023	229137260023	DSL_5000	05-APR-2019 21:03	S39749

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	39017	37879	38954	38130	38260	AVRG		2.60E-5		38448	1	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	B	10.000	1	100.00	-1	500.00	1	1000.0	-1	5000.0	0

TKY 04/08/19 : Corrected automatically drawn baseline in all levels.

Analyst: TKY

Date: 04/08/19

Reviewer: EAH

Date: 04/08/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 229137260002

Name : DSL_095
Cal Date : 05-APR-2019

ICV 229137260025 (095_025 05-APR-2019) stds: S39005

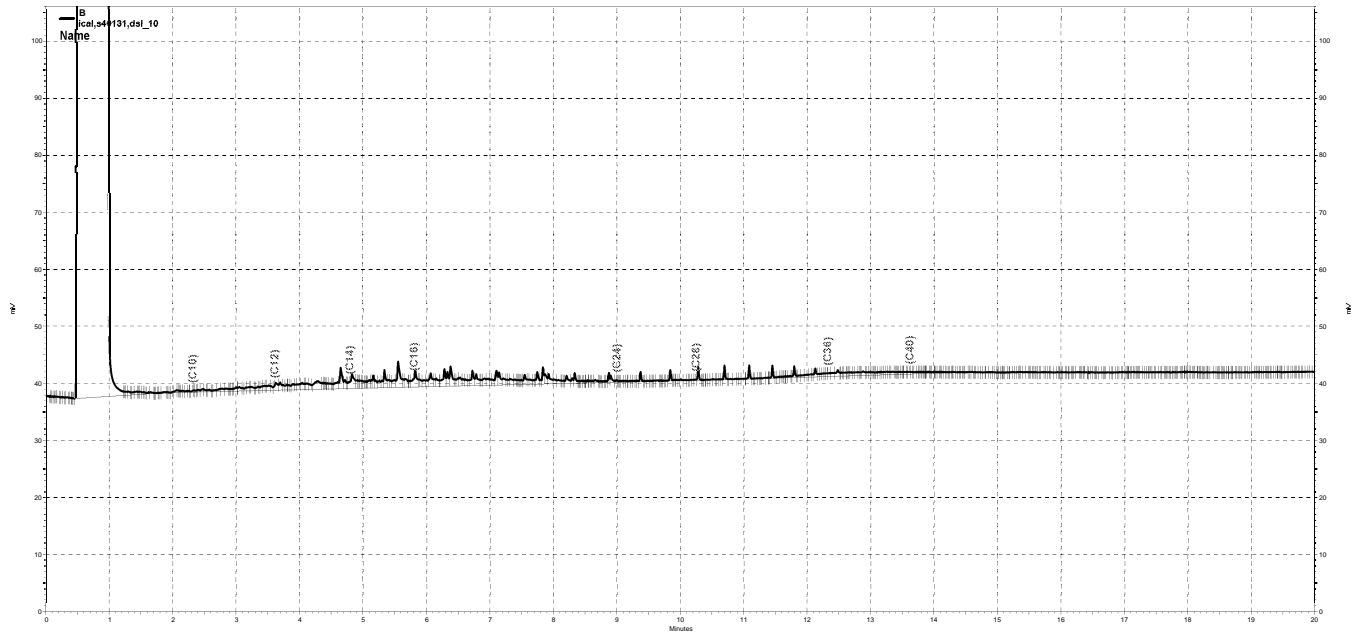
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	B	500.0	492.3	mg/L	-2	15	

Analyst: TKY

Date: 04/08/19

Reviewer: EAH

Date: 04/08/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b019, B

Sample Name: ical,s40131,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 7:13:34 PM
 Analysis Date: 4/8/2019 8:21:06 AM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	209357	0.000 CAL
DSL:10-14	122727	10.000 CAL
DSL:10-22	375586	10.000 CAL
DSL:10-24	390174	10.000 CAL
DSL:10-28	407682	10.000 CAL
DSL:12-24	353619	10.000 CAL
DSL:12-28	371127	10.000 CAL
DSL:14-24	283664	10.000 CAL
DSL:16-24	195287	10.000 CAL
MO:22-32	47561	0.000 CAL
MO:24-36	54529	0.000 CAL
MO:28-40	79996	0.000 CAL
BUNKC:10-40	483781	0.000 CAL
BUNKC:12-40	447226	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

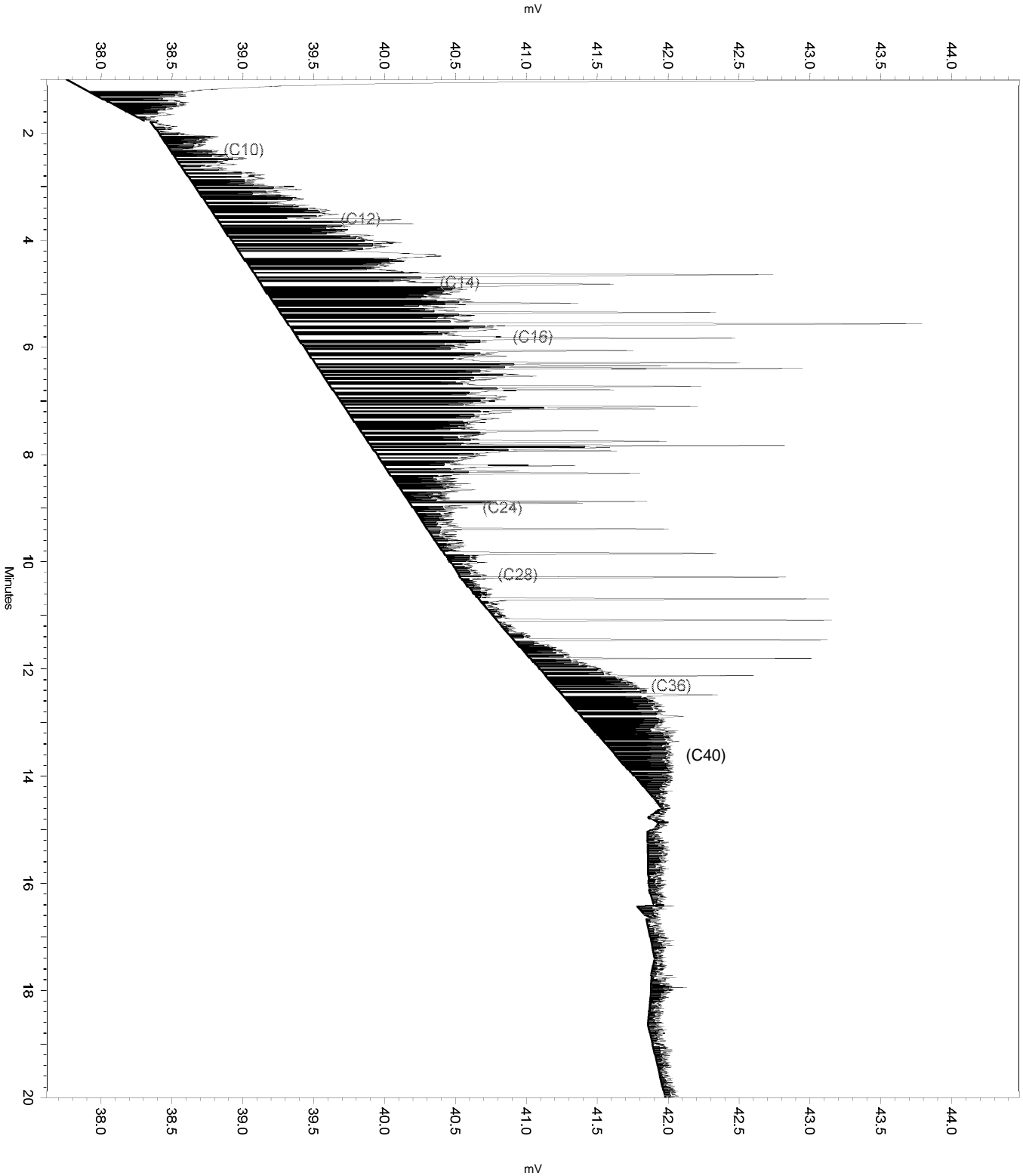
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline	1.768	0	0
Yes	Move BL Stop	2.627	10.367	0

Sample Name: ical,s40131,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b019
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 7:13:34 PM
Analysis Date: 4/8/2019 8:21:06 AM
Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40131,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 7:13:34 PM
 Analysis Date: 4/8/2019 8:03:00 AM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	93395	0.000 CAL
DSL:10-14	48589	10.000 CAL
DSL:10-22	191711	10.000 CAL
DSL:10-24	198502	10.000 CAL
DSL:10-28	212980	10.000 CAL
DSL:12-24	180278	10.000 CAL
DSL:12-28	194756	10.000 CAL
DSL:14-24	157383	10.000 CAL
DSL:16-24	113291	10.000 CAL
MO:22-32	34700	0.000 CAL
MO:24-36	50847	0.000 CAL
MO:28-40	79955	0.000 CAL
BUNKC:10-40	289078	0.000 CAL
BUNKC:12-40	270854	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

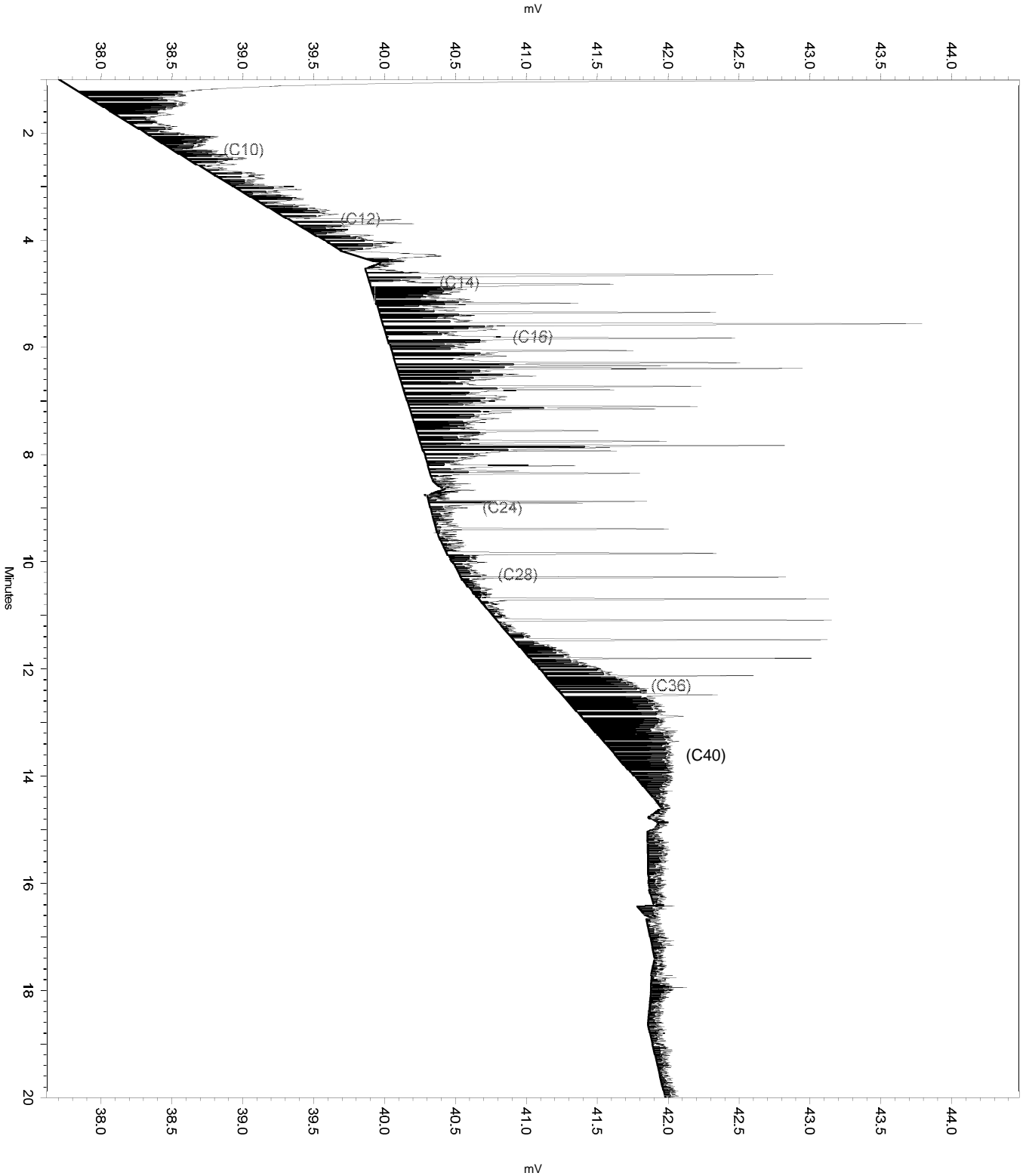
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

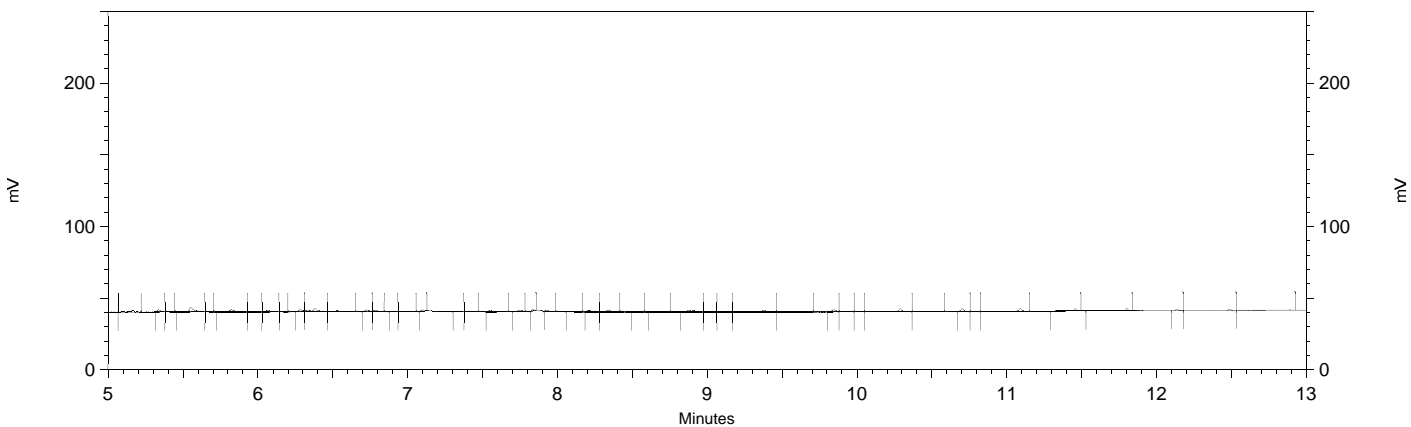
Sample Name: ical,s40131,dsl_10
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b019
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 7:13:34 PM
Analysis Date: 4/8/2019 8:03:00 AM
Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40131,dsl_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/5/2019 7:13:34 PM
 Analysis Date: 4/5/2019 7:33:43 PM
 Instrument: GC14B Vial: 19 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.920	463	0.009
Hexacosane	9.642	1123	0.026



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

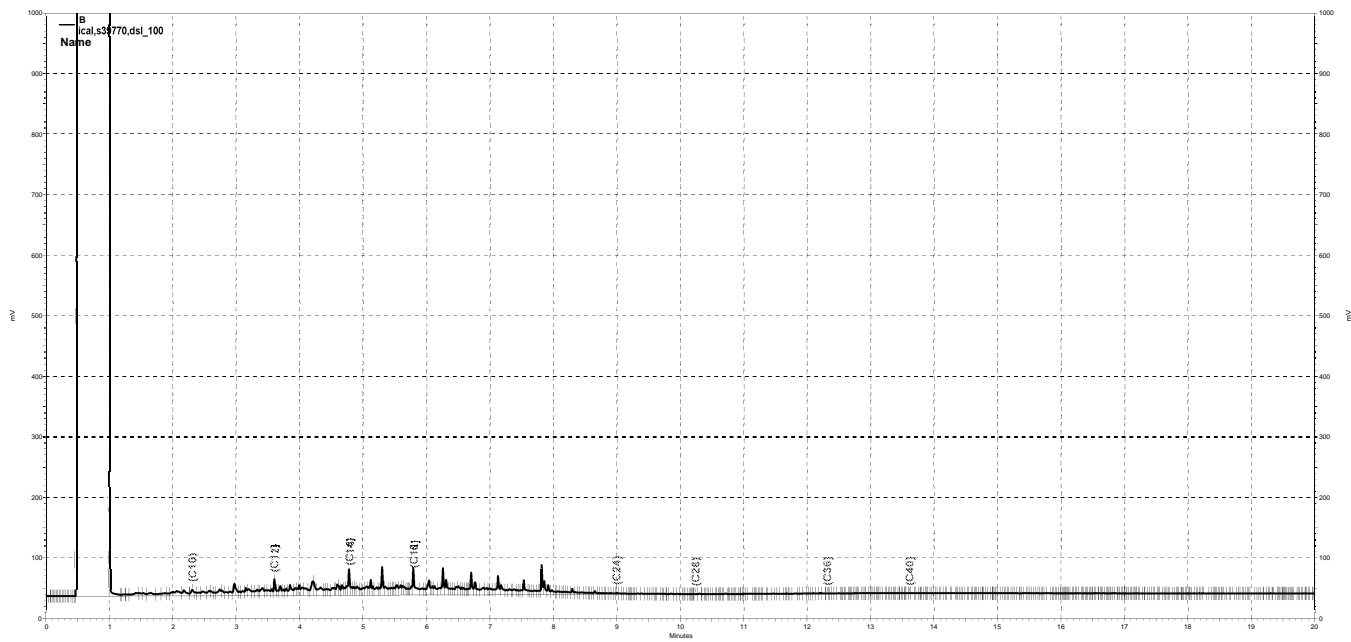
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b019_C81E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b020, B

Sample Name: ical,s39770,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 7:40:37 PM
 Analysis Date: 4/8/2019 8:21:13 AM
 Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2247473	0.000 CAL
DSL:10-14	1448208	100.000 CAL
DSL:10-22	3695963	100.000 CAL
DSL:10-24	3787878	100.000 CAL
DSL:10-28	3823708	100.000 CAL
DSL:12-24	3263006	100.000 CAL
DSL:12-28	3298836	100.000 CAL
DSL:14-24	2499486	100.000 CAL
DSL:16-24	1684015	100.000 CAL
MO:22-32	171723	0.000 CAL
MO:24-36	61995	0.000 CAL
MO:28-40	52083	0.000 CAL
BUNKC:10-40	3874587	0.000 CAL
BUNKC:12-40	3349715	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

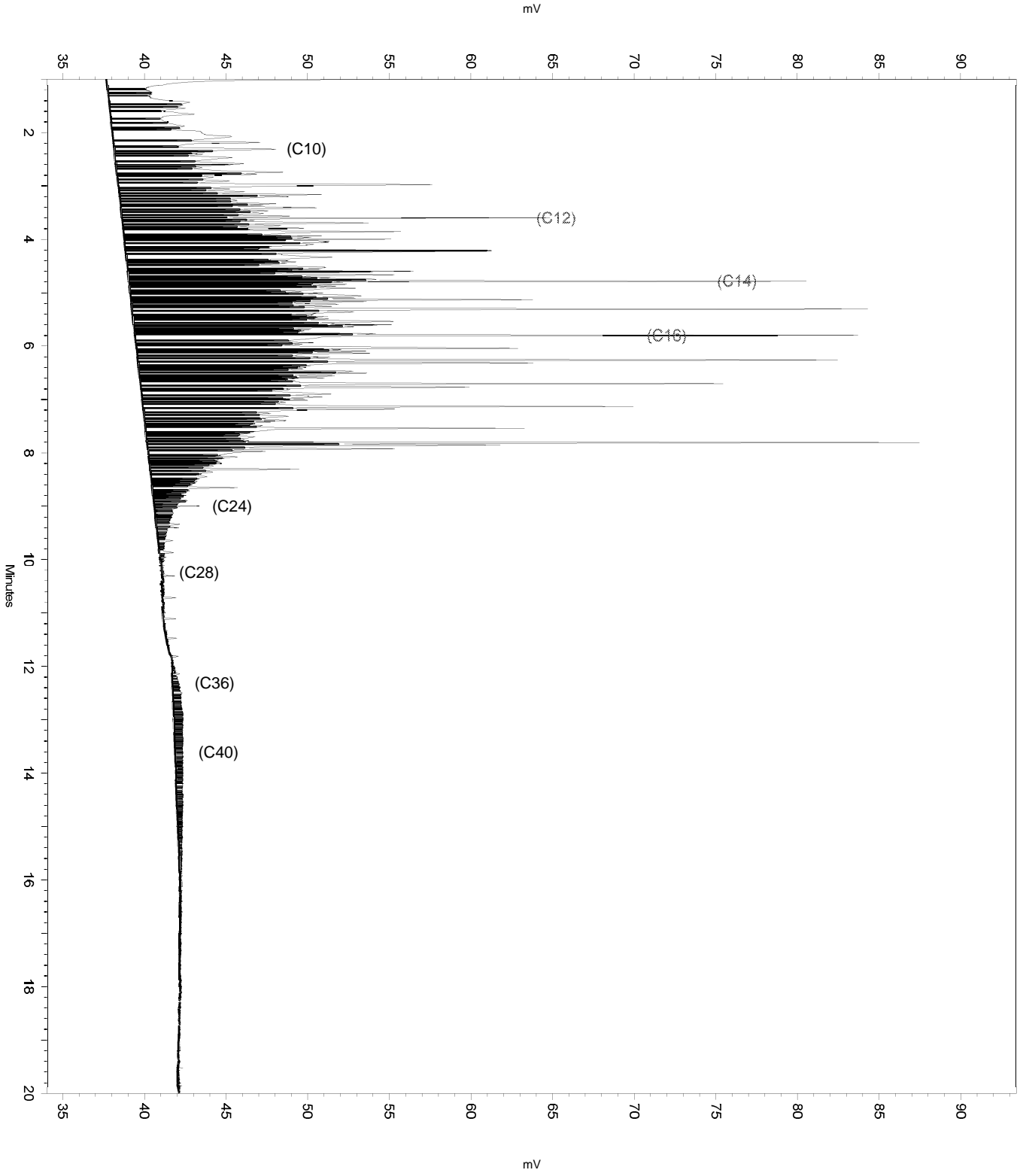
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	2.937	10.426	0

Sample Name: ical,s39770,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b020
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 7:40:37 PM
Analysis Date: 4/8/2019 8:21:13 AM
Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39770,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 7:40:37 PM
 Analysis Date: 4/8/2019 8:03:57 AM
 Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	914729	0.000 CAL
DSL:10-14	506688	100.000 CAL
DSL:10-22	1789893	100.000 CAL
DSL:10-24	1818311	100.000 CAL
DSL:10-28	1830505	100.000 CAL
DSL:12-24	1649655	100.000 CAL
DSL:12-28	1661849	100.000 CAL
DSL:14-24	1399124	100.000 CAL
DSL:16-24	990838	100.000 CAL
MO:22-32	64987	0.000 CAL
MO:24-36	30631	0.000 CAL
MO:28-40	53571	0.000 CAL
BUNKC:10-40	1881902	0.000 CAL
BUNKC:12-40	1713246	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

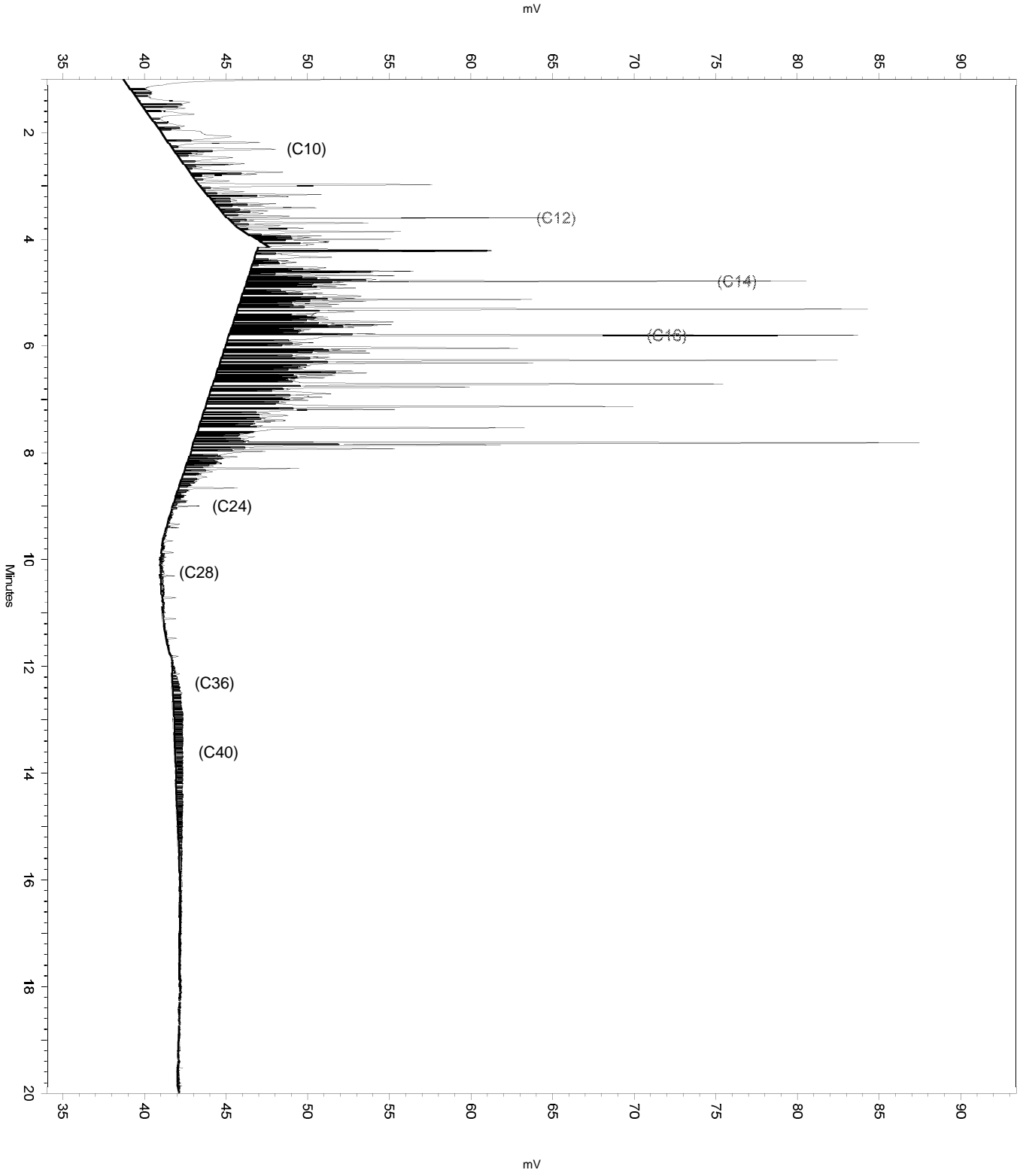
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0      0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b020
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

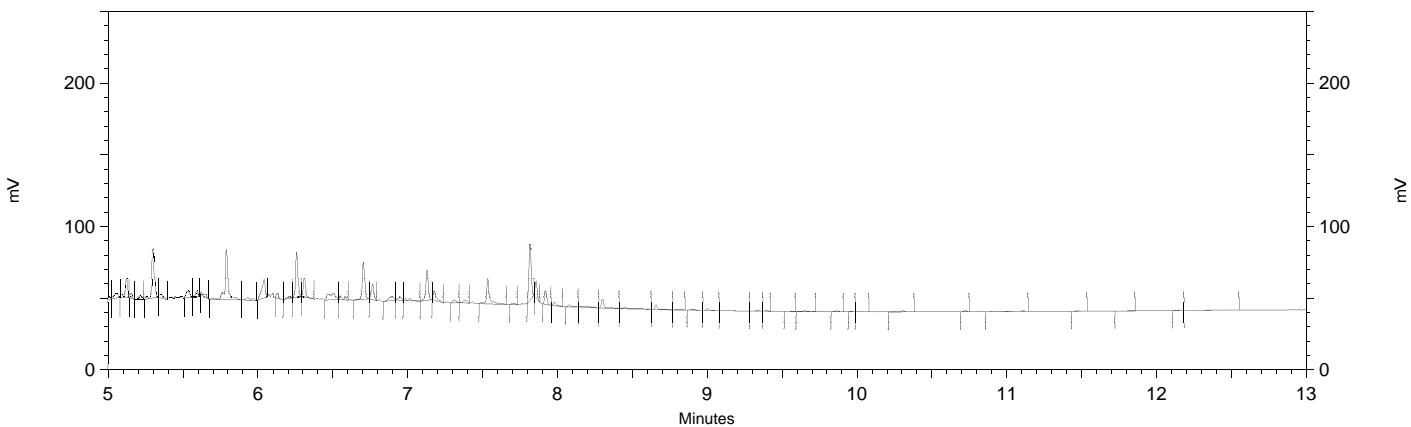
Sample Name: ical,s39770,dsl_100
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b020
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 7:40:37 PM
Analysis Date: 4/8/2019 8:03:57 AM
Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39770,dsl_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/5/2019 7:40:37 PM
 Analysis Date: 4/5/2019 8:00:46 PM
 Instrument: GC14B Vial: 20 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.897	6136	0.115
Hexacosane	9.648	1046	0.024



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

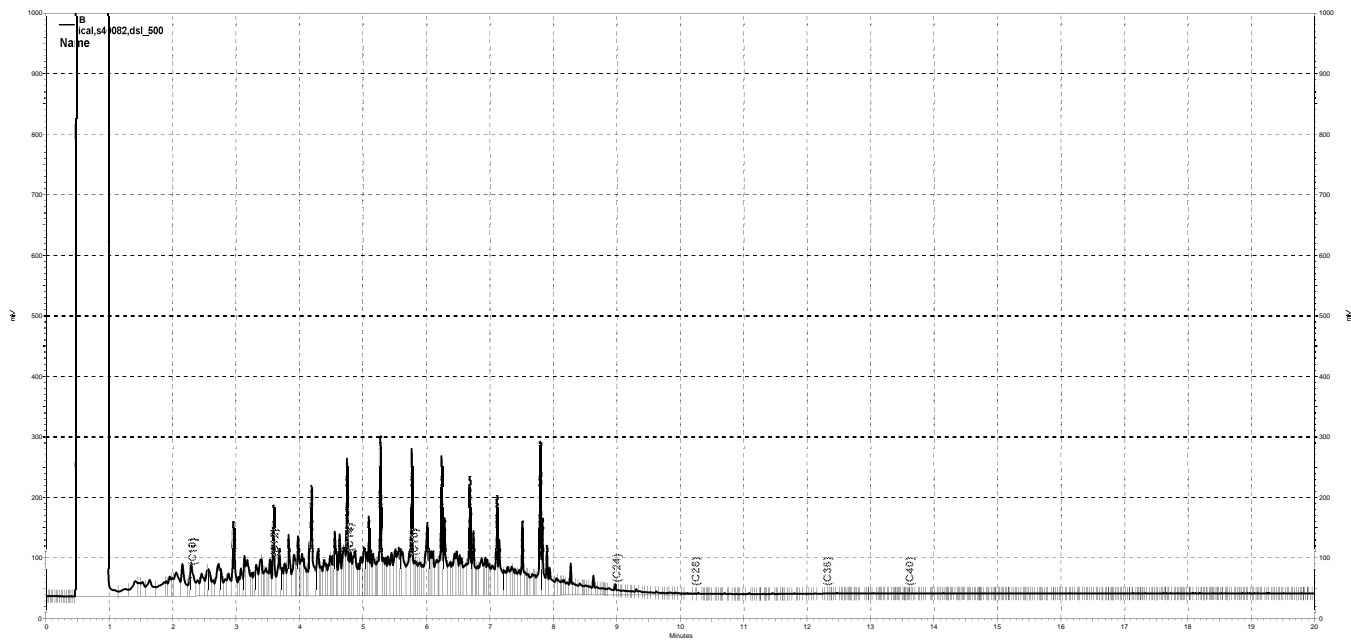
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b020_C81F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b021, B

Sample Name: ical,s40082,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b021
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 8:08:06 PM
 Analysis Date: 4/8/2019 8:21:19 AM
 Instrument: GC14B Vial: 21 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	11442770	0.000 CAL
DSL:10-14	7442921	500.000 CAL
DSL:10-22	18986298	500.000 CAL
DSL:10-24	19476760	500.000 CAL
DSL:10-28	19762180	500.000 CAL
DSL:12-24	16874424	500.000 CAL
DSL:12-28	17159844	500.000 CAL
DSL:14-24	12652516	500.000 CAL
DSL:16-24	8831515	500.000 CAL
MO:22-32	1032818	0.000 CAL
MO:24-36	491521	0.000 CAL
MO:28-40	241639	0.000 CAL
BUNKC:10-40	19986756	0.000 CAL
BUNKC:12-40	17384420	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

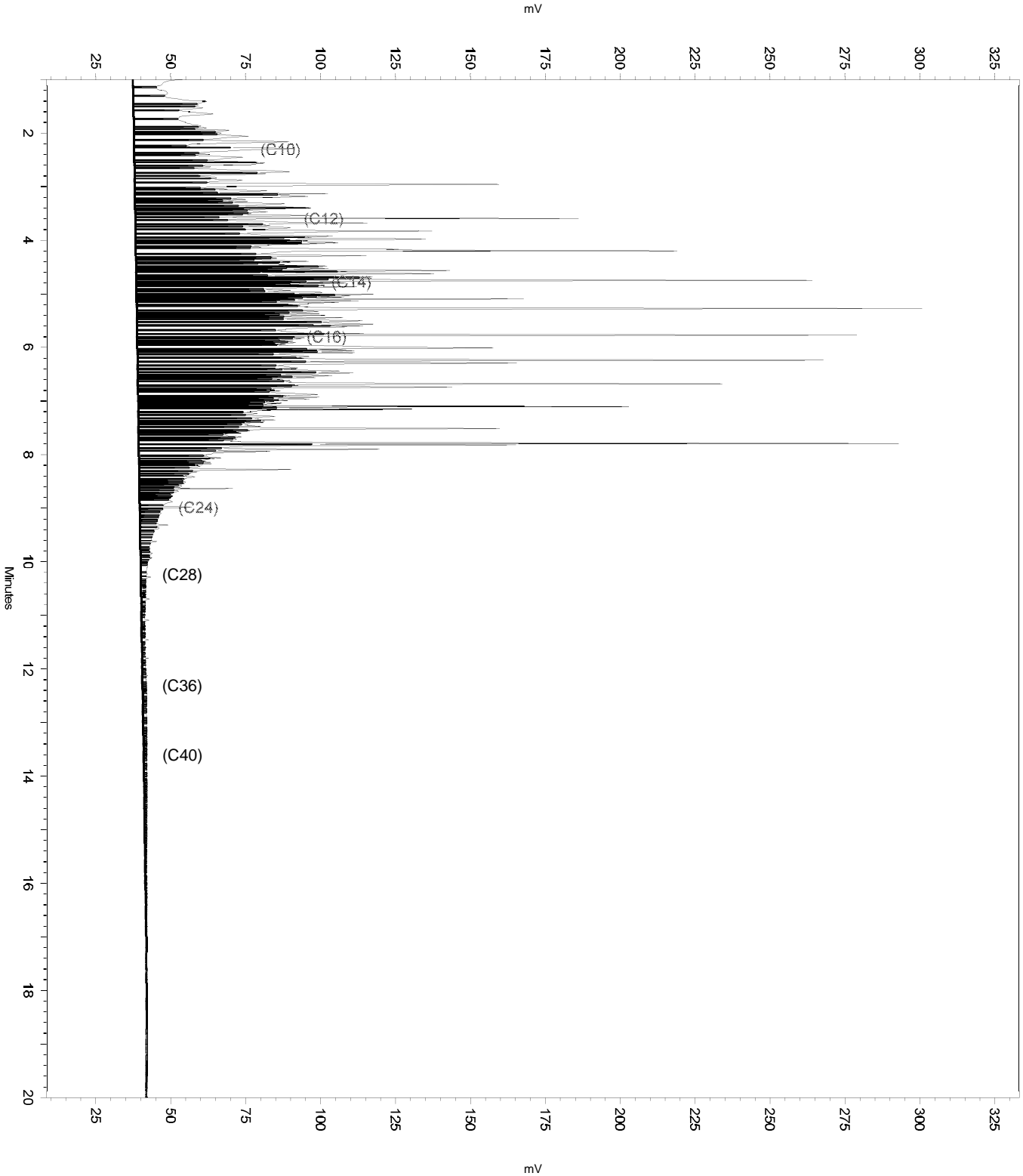
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	13.465	17.259	0

Sample Name: ical,s40082,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b021
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 8:08:06 PM
Analysis Date: 4/8/2019 8:21:19 AM
Instrument: GC14B Vial: 21 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40082,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b021
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 8:08:06 PM
 Analysis Date: 4/8/2019 8:04:23 AM
 Instrument: GC14B Vial: 21 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	11386599	0.000 CAL
DSL:10-14	7408449	500.000 CAL
DSL:10-22	18856556	500.000 CAL
DSL:10-24	19322440	500.000 CAL
DSL:10-28	19556344	500.000 CAL
DSL:12-24	16732862	500.000 CAL
DSL:12-28	16966768	500.000 CAL
DSL:14-24	12530334	500.000 CAL
DSL:16-24	8729068	500.000 CAL
MO:22-32	903173	0.000 CAL
MO:24-36	337796	0.000 CAL
MO:28-40	68797	0.000 CAL
BUNKC:10-40	19614438	0.000 CAL
BUNKC:12-40	17024862	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

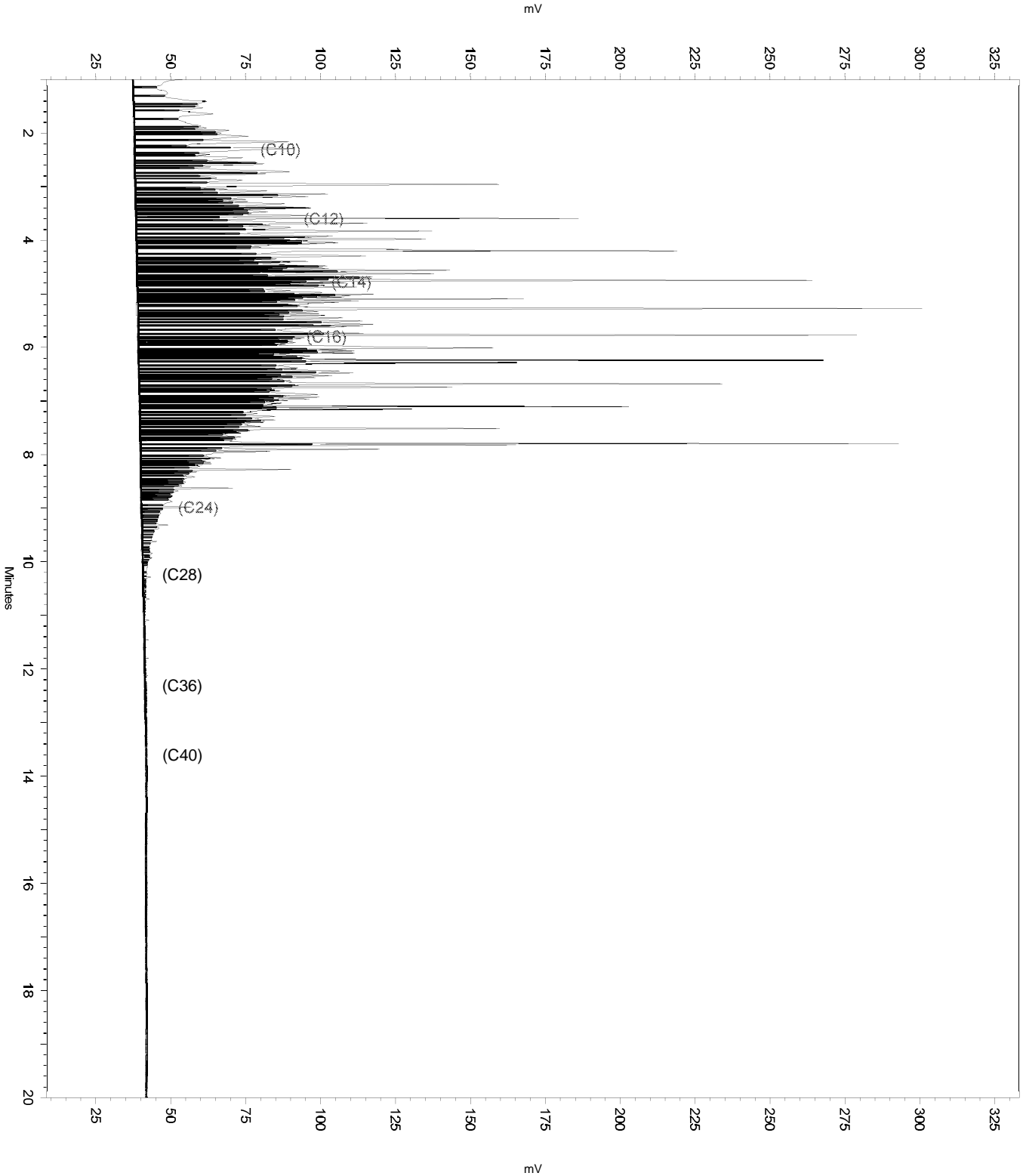
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

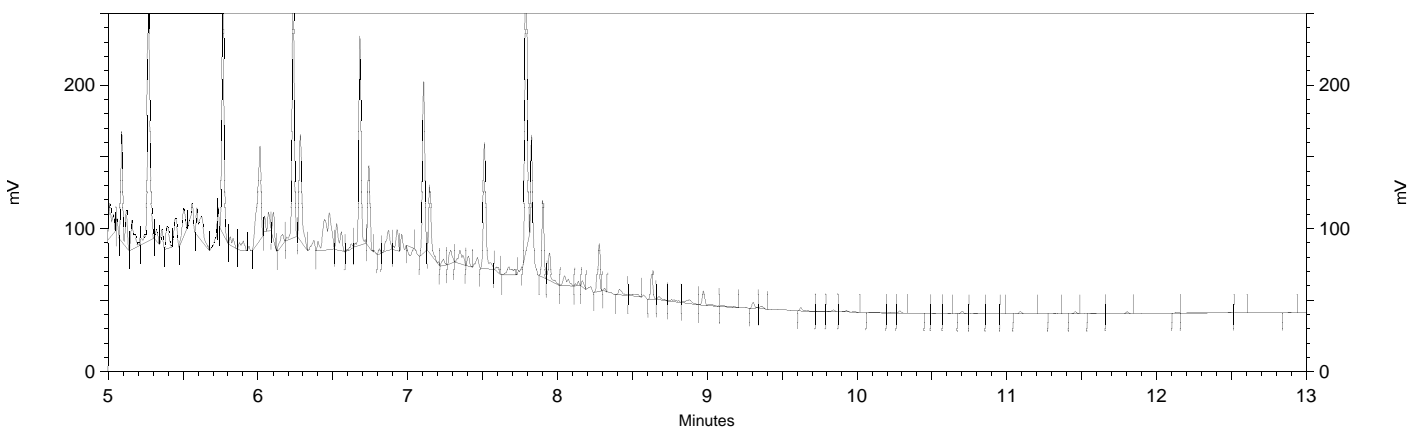
Sample Name: ical,s40082,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b021
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 8:08:06 PM
Analysis Date: 4/8/2019 8:04:23 AM
Instrument: GC14B Vial: 21 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40082,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b021
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/5/2019 8:08:06 PM
 Analysis Date: 4/5/2019 8:28:15 PM
 Instrument: GC14B Vial: 21 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.872	24420	0.457
Hexacosane	9.625	3643	0.084



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

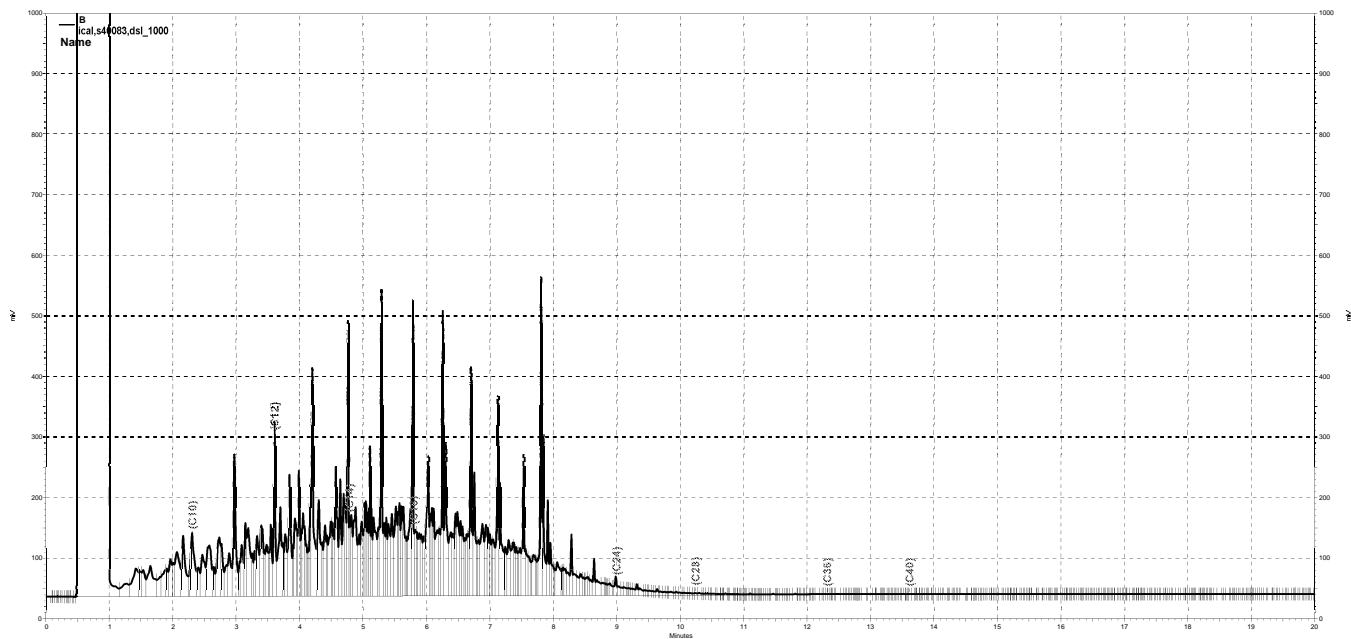
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b021_C820.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b022, B

Sample Name: ical,s40083,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b022
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 8:35:35 PM
 Analysis Date: 4/8/2019 8:21:25 AM
 Instrument: GC14B Vial: 22 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	22318206	0.000 CAL
DSL:10-14	14382654	1000.000 CAL
DSL:10-22	37149056	1000.000 CAL
DSL:10-24	38129576	1000.000 CAL
DSL:10-28	38648184	1000.000 CAL
DSL:12-24	33096784	1000.000 CAL
DSL:12-28	33615400	1000.000 CAL
DSL:14-24	25062780	1000.000 CAL
DSL:16-24	17235268	1000.000 CAL
MO:22-32	2008243	0.000 CAL
MO:24-36	827425	0.000 CAL
MO:28-40	283390	0.000 CAL
BUNKC:10-40	38902720	0.000 CAL
BUNKC:12-40	33869936	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

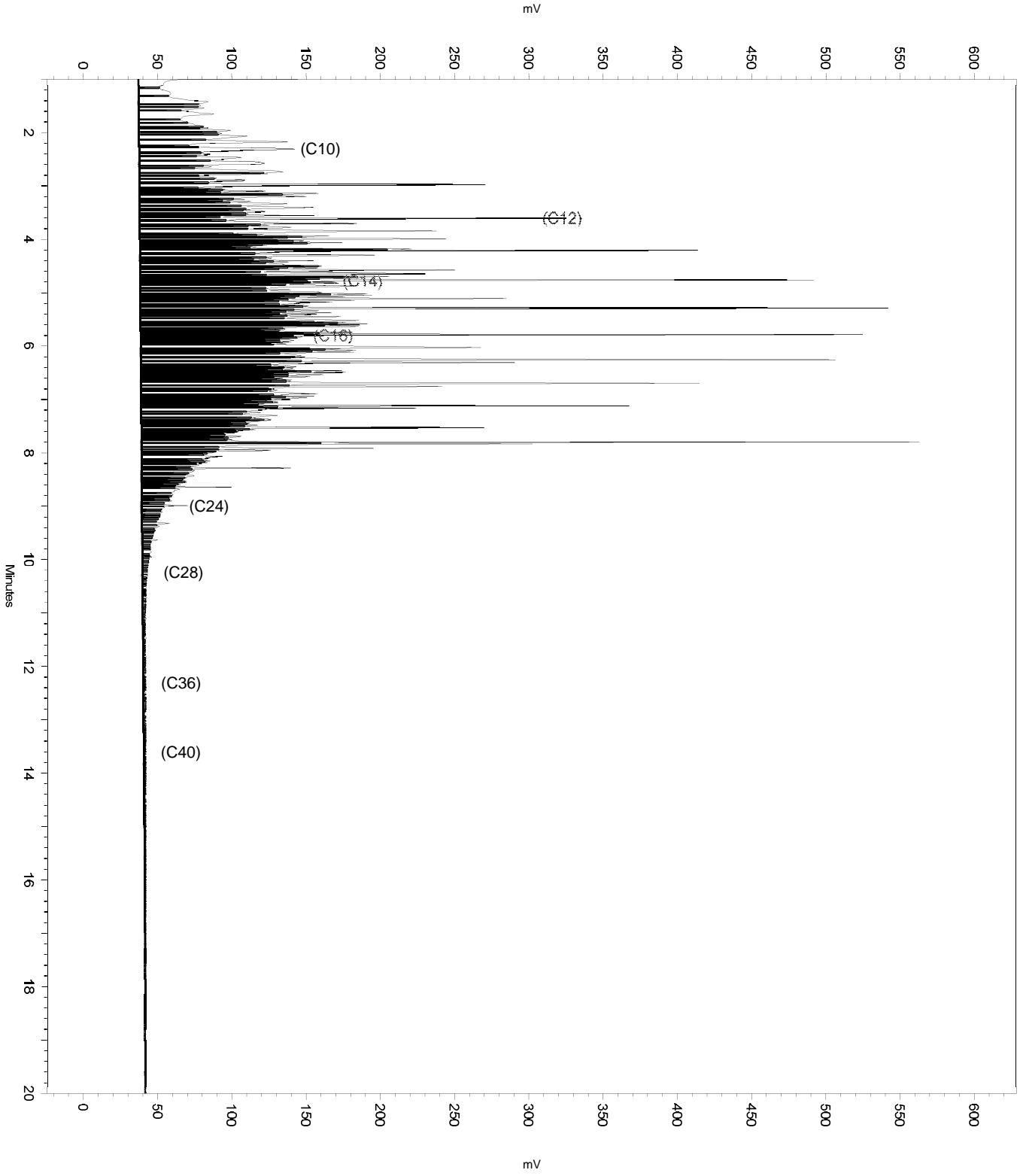
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	12.96	17.281	0

Sample Name: ical,s40083,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b022
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 8:35:35 PM
Analysis Date: 4/8/2019 8:21:25 AM
Instrument: GC14B Vial: 22 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40083,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b022
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 8:35:35 PM
 Analysis Date: 4/8/2019 8:04:47 AM
 Instrument: GC14B Vial: 22 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	22257488	0.000 CAL
DSL:10-14	14345750	1000.000 CAL
DSL:10-22	37009248	1000.000 CAL
DSL:10-24	37962560	1000.000 CAL
DSL:10-28	38425124	1000.000 CAL
DSL:12-24	32943522	1000.000 CAL
DSL:12-28	33406100	1000.000 CAL
DSL:14-24	24929978	1000.000 CAL
DSL:16-24	17124934	1000.000 CAL
MO:22-32	1865896	0.000 CAL
MO:24-36	660443	0.000 CAL
MO:28-40	101773	0.000 CAL
BUNKC:10-40	38505248	0.000 CAL
BUNKC:12-40	33486212	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

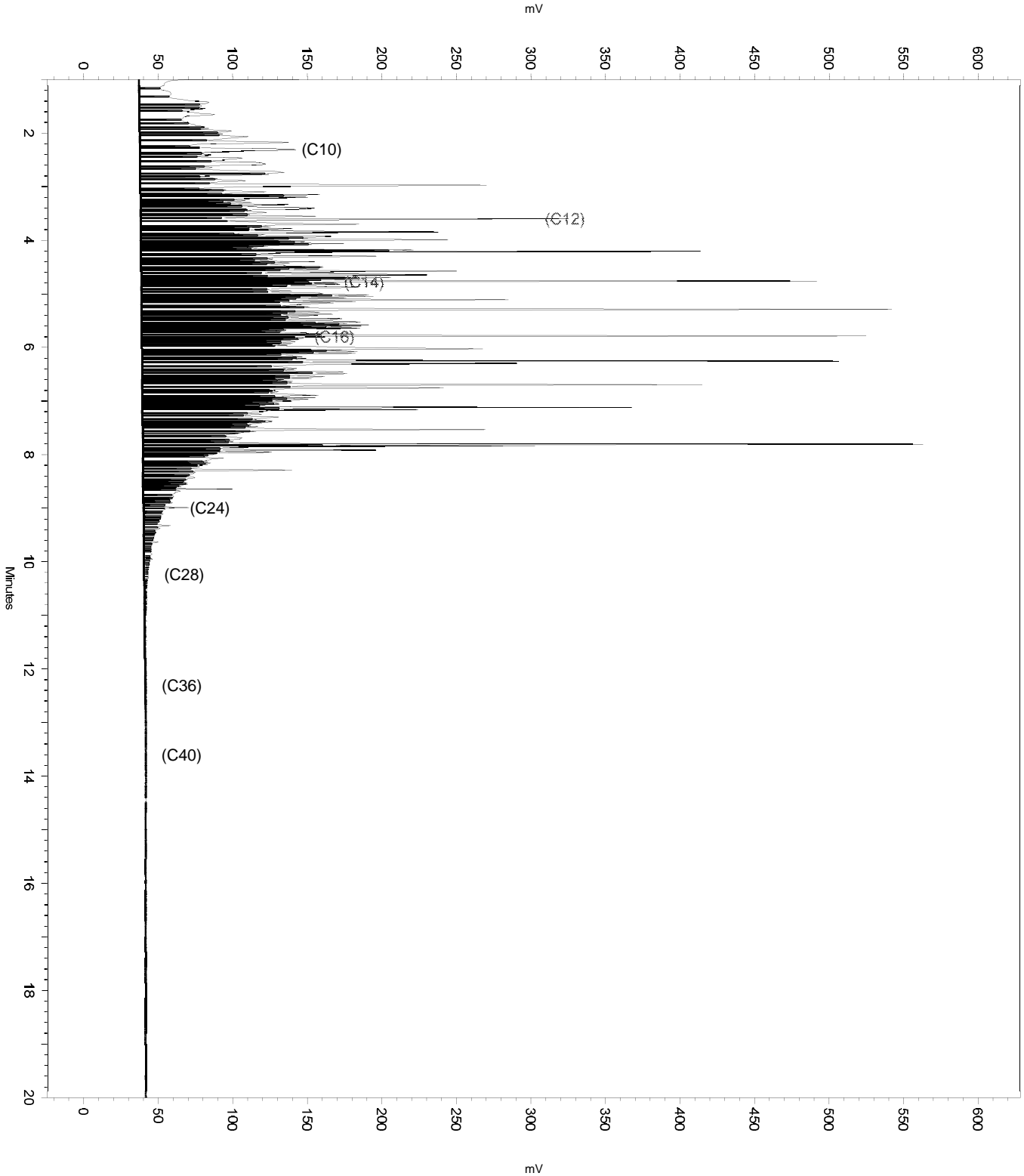
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

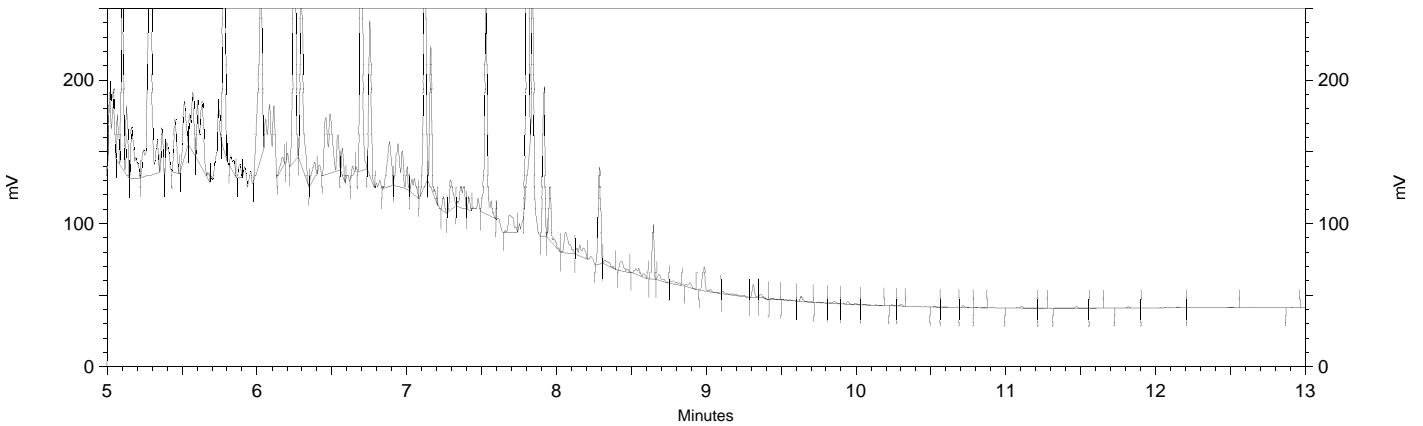
Sample Name: ical,s40083,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b022
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 8:35:35 PM
Analysis Date: 4/8/2019 8:04:47 AM
Instrument: GC14B Vial: 22 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s40083,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b022
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/5/2019 8:35:35 PM
 Analysis Date: 4/5/2019 8:55:45 PM
 Instrument: GC14B Vial: 22 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.883	60473	1.131
Hexacosane	9.637	6559	0.151



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

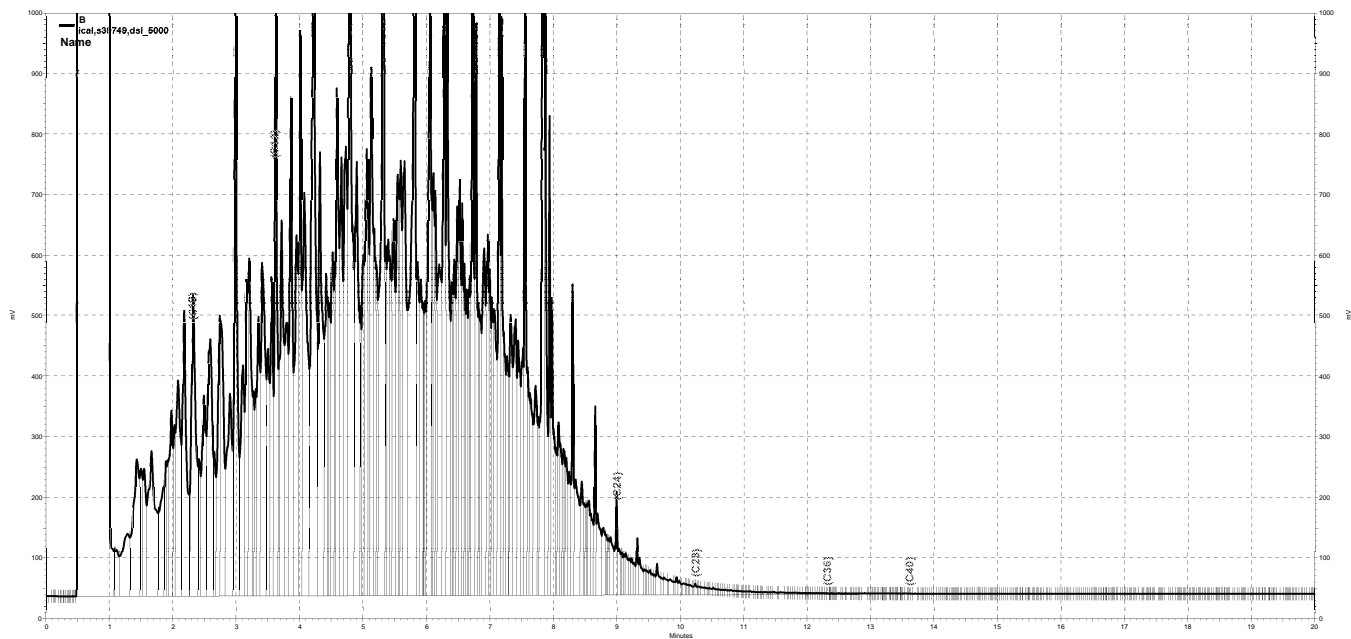
```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0          20         0
Yes Shoulder Sensitivity 0          20         500
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b022_C821.tmp
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b023, B

Sample Name: ical,s39749,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b023
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 9:03:02 PM
 Analysis Date: 4/8/2019 8:21:32 AM
 Instrument: GC14B Vial: 23 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	111094368	0.000 CAL
DSL:10-14	71306816	5000.000 CAL
DSL:10-22	186622416	5000.000 CAL
DSL:10-24	191299200	5000.000 CAL
DSL:10-28	193748656	5000.000 CAL
DSL:12-24	166690144	5000.000 CAL
DSL:12-28	169139600	5000.000 CAL
DSL:14-24	127937968	5000.000 CAL
DSL:16-24	88130704	5000.000 CAL
MO:22-32	9982017	0.000 CAL
MO:24-36	3675451	0.000 CAL
MO:28-40	816350	0.000 CAL
BUNKC:10-40	194460480	0.000 CAL
BUNKC:12-40	169851424	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

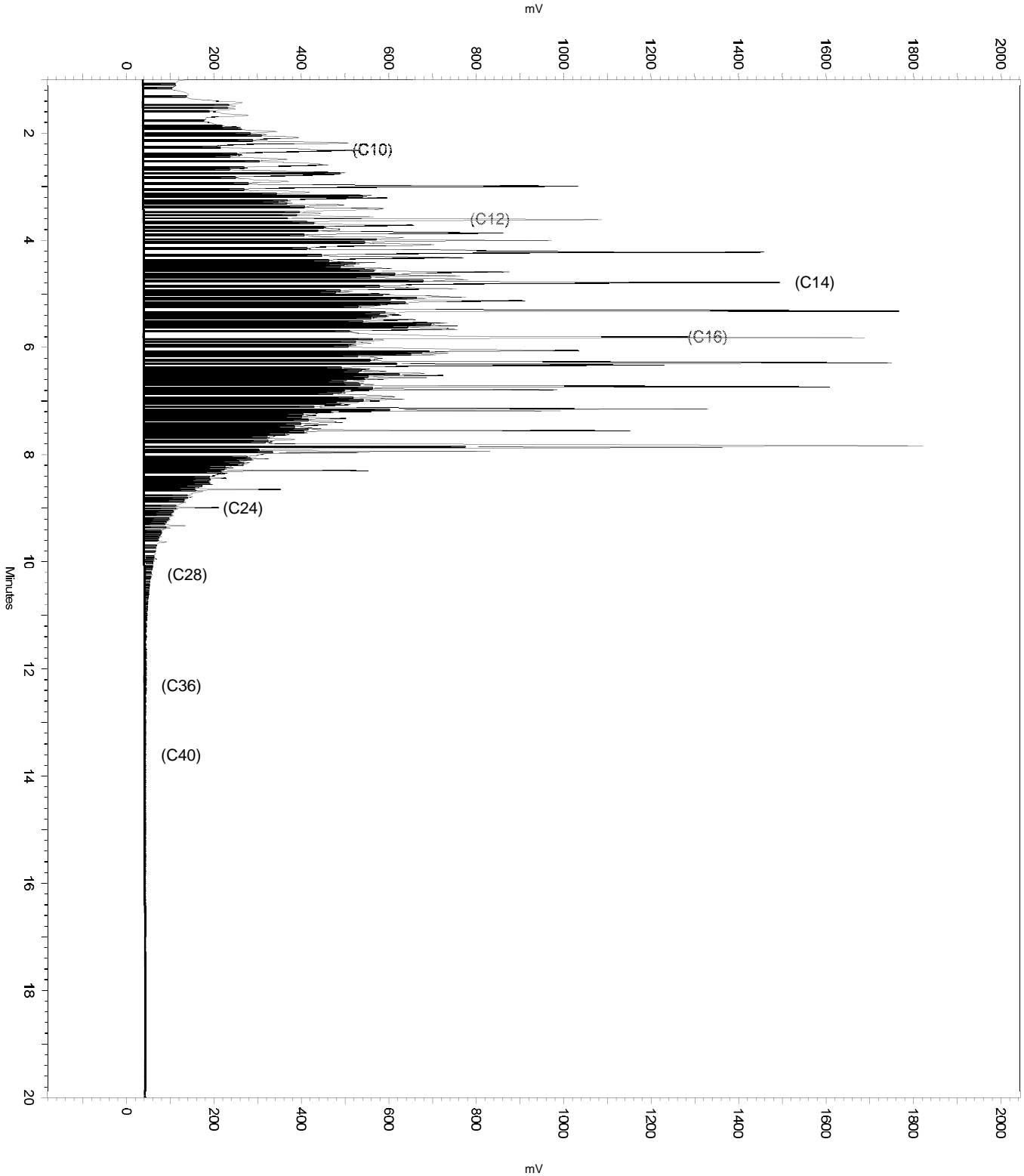
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	9.797	17.226	0

Sample Name: ical,s39749,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b023
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 9:03:02 PM
Analysis Date: 4/8/2019 8:21:32 AM
Instrument: GC14B Vial: 23 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39749,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b023
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 9:03:02 PM
 Analysis Date: 4/8/2019 8:05:11 AM
 Instrument: GC14B Vial: 23 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	109133464	0.000 CAL
DSL:10-14	70117432	5000.000 CAL
DSL:10-22	182083056	5000.000 CAL
DSL:10-24	185931152	5000.000 CAL
DSL:10-28	186904432	5000.000 CAL
DSL:12-24	161756944	5000.000 CAL
DSL:12-28	162730224	5000.000 CAL
DSL:14-24	123649832	5000.000 CAL
DSL:16-24	84569224	5000.000 CAL
MO:22-32	7021900	0.000 CAL
MO:24-36	1472539	0.000 CAL
MO:28-40	47746	0.000 CAL
BUNKC:10-40	186941952	0.000 CAL
BUNKC:12-40	162767744	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

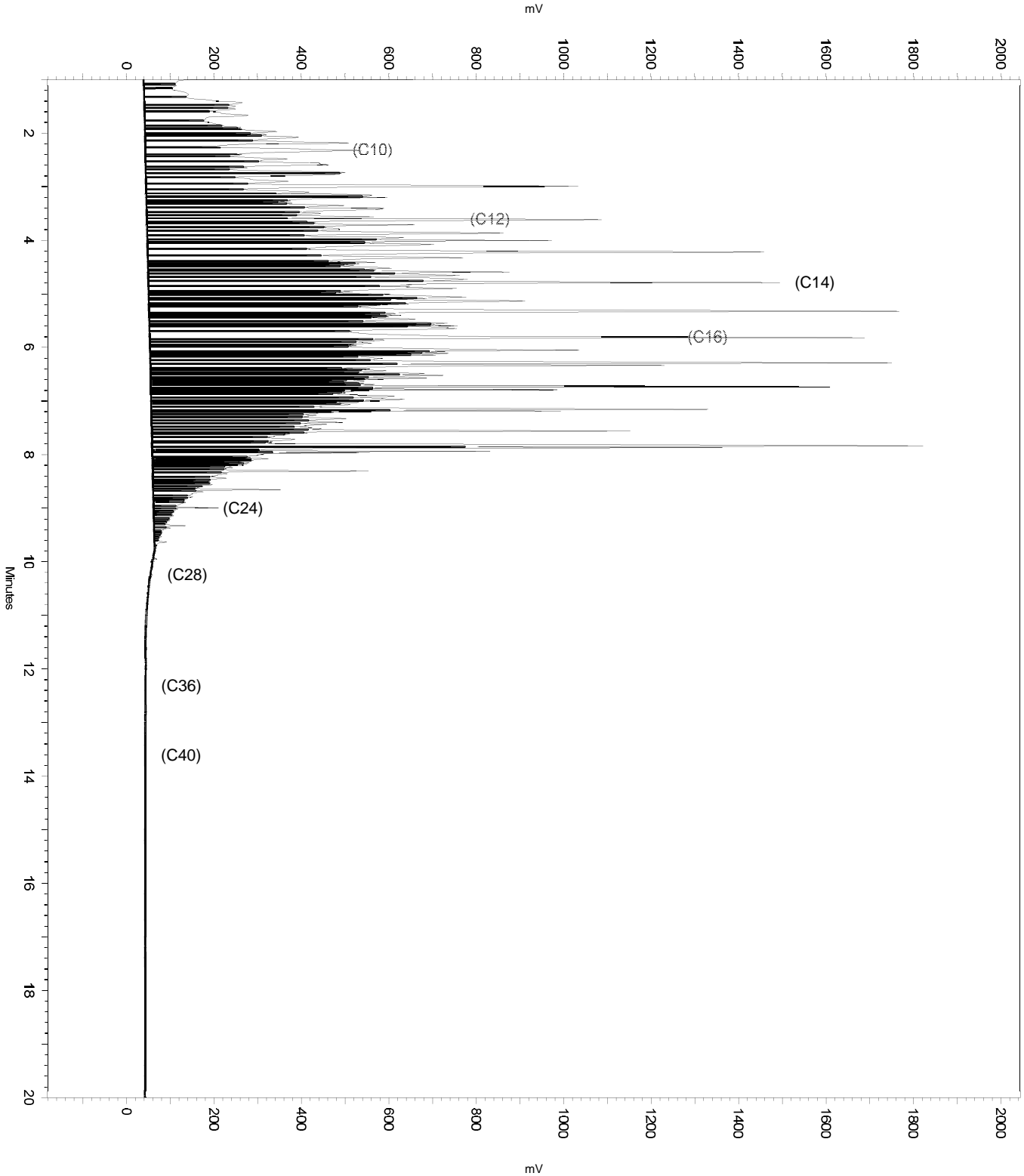
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

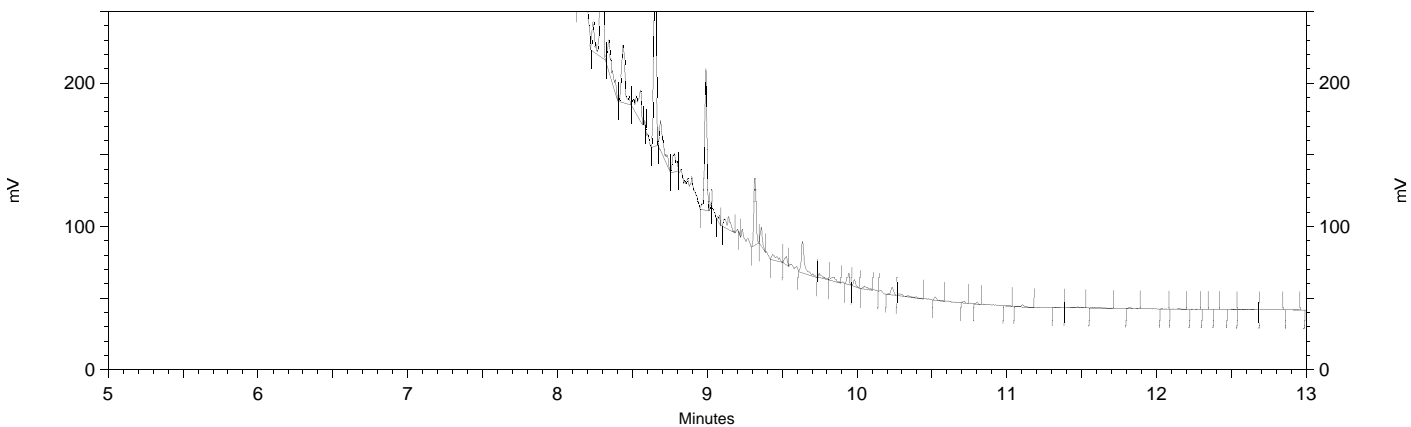
Sample Name: ical,s39749,dsl_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b023
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 9:03:02 PM
Analysis Date: 4/8/2019 8:05:11 AM
Instrument: GC14B Vial: 23 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39749,dsl_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b023
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/5/2019 9:03:02 PM
 Analysis Date: 4/5/2019 9:23:12 PM
 Instrument: GC14B Vial: 23 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.913	234916	4.393
Hexacosane	9.635	32779	0.755



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

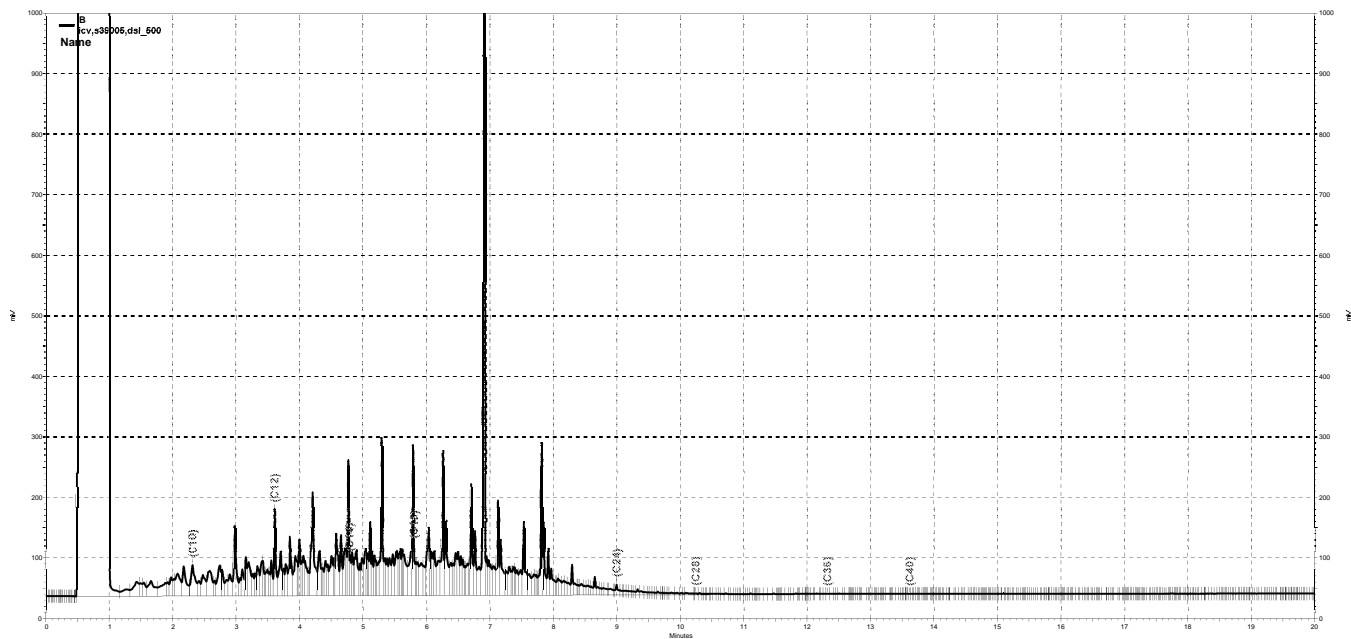
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b023_C822.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b025, B

Sample Name: icv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b025
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 9:57:35 PM
 Analysis Date: 4/8/2019 8:30:38 AM
 Instrument: GC14B Vial: 25 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	11033363	296.380
DSL:10-14	7058126	502.110
DSL:10-22	20685568	553.195
DSL:10-24	21201692	551.441
DSL:10-28	21486076	548.317
DSL:12-24	18747736	557.385
DSL:12-28	19032120	553.697
DSL:14-24	14794508	572.026
DSL:16-24	10947269	615.753
MO:22-32	1077062	37.844
MO:24-36	495719	16.483
MO:28-40	237524	11.816
BUNKC:10-40	21707678	947.107
BUNKC:12-40	19253722	869.632

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

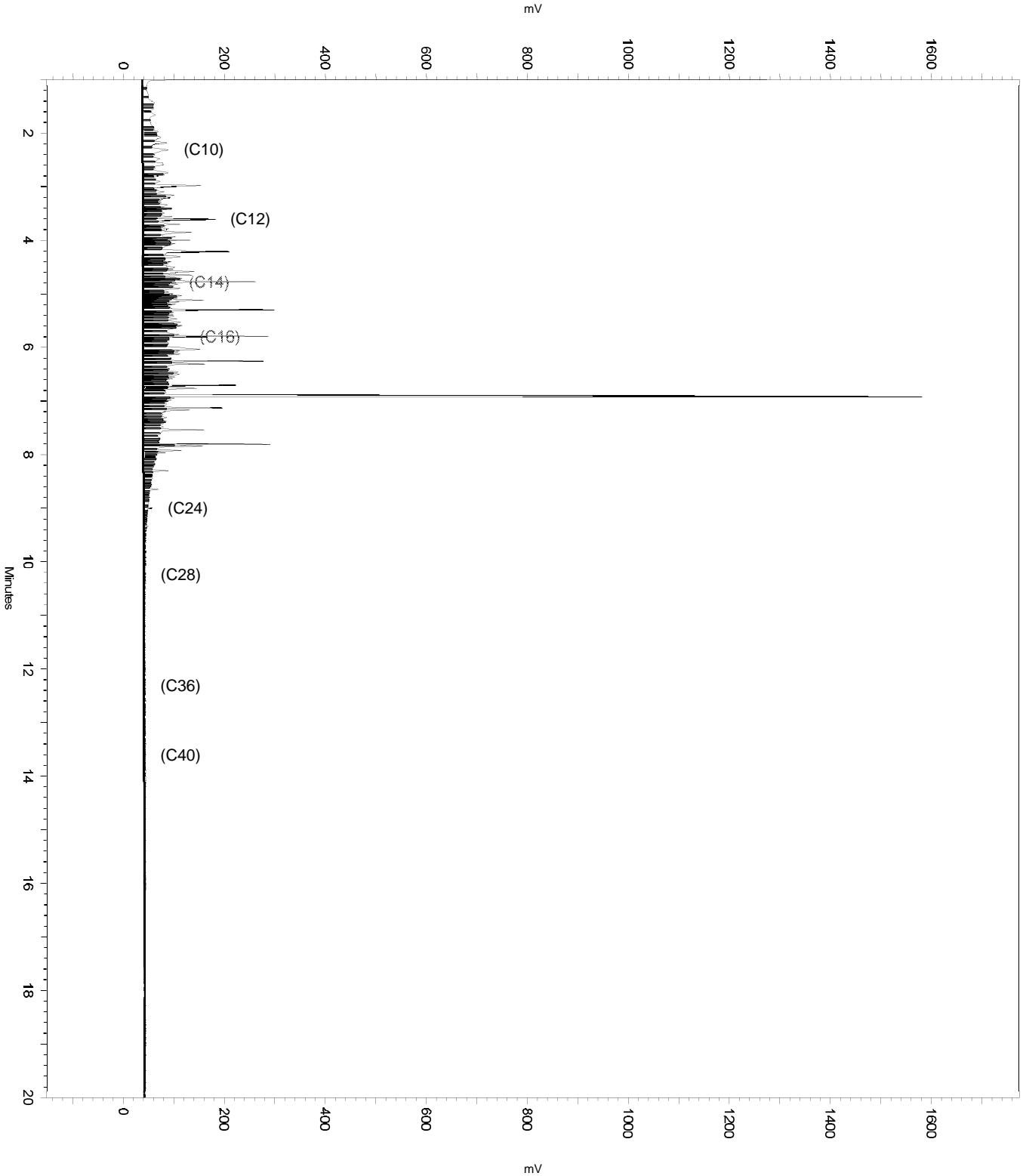
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.859	7.034	0
No	Split Peak	6.938	0	0
Yes	Move BL Stop	13.587	17.868	0

Sample Name: icv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b025
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 9:57:35 PM
Analysis Date: 4/8/2019 8:30:38 AM
Instrument: GC14B Vial: 25 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: icv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b025
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 9:57:35 PM
 Analysis Date: 4/8/2019 8:30:24 AM
 Instrument: GC14B Vial: 25 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	10979791	294.941
DSL:10-14	7025683	499.802
DSL:10-22	20562504	549.904
DSL:10-24	21053948	547.598
DSL:10-28	21289672	543.305
DSL:12-24	18612012	553.351
DSL:12-28	18847736	548.333
DSL:14-24	14676869	567.478
DSL:16-24	10849023	610.227
MO:22-32	953920	33.517
MO:24-36	350136	11.642
MO:28-40	71707	3.567
BUNKC:10-40	21350798	931.537
BUNKC:12-40	18908862	854.056

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

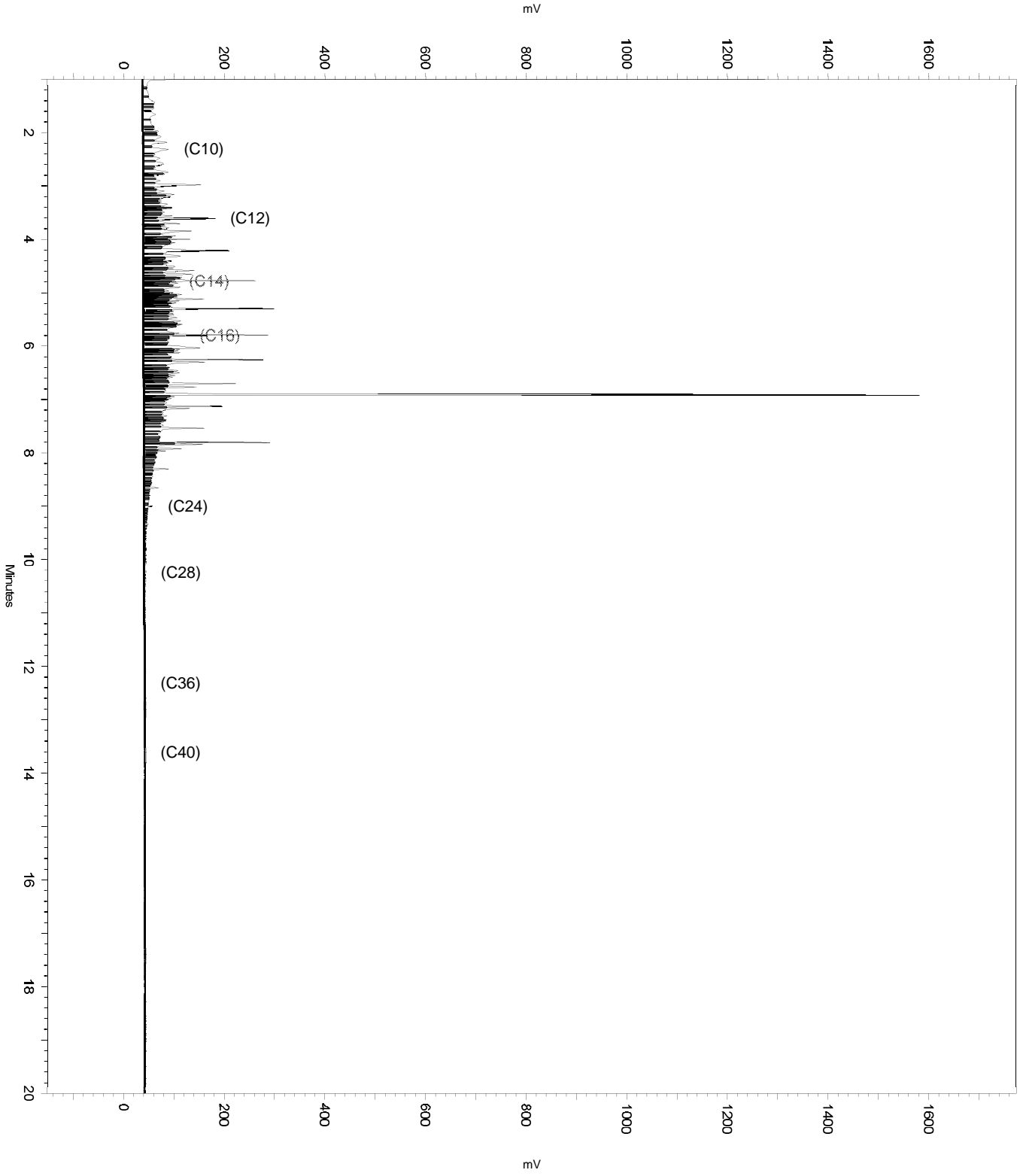
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.859	7.034	0
No	Split Peak	6.938	0	0

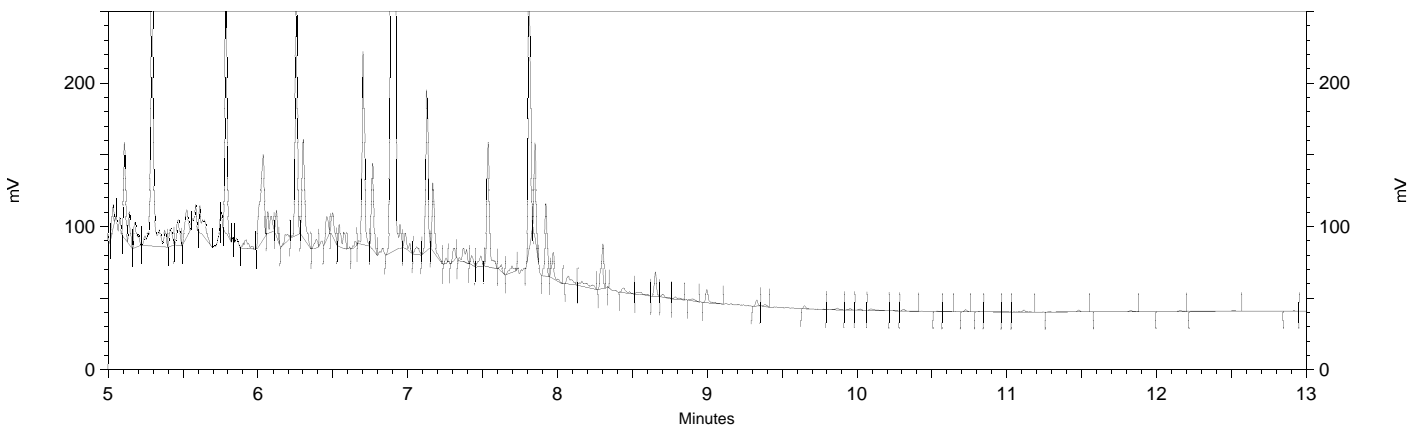
Sample Name: icv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b025
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 9:57:35 PM
Analysis Date: 4/8/2019 8:30:24 AM
Instrument: GC14B Vial: 25 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: icv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b025
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/5/2019 9:57:35 PM
 Analysis Date: 4/5/2019 10:17:45 PM
 Instrument: GC14B Vial: 25 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.915	2282910	42.693
Hexacosane	9.648	3451	0.080



 << General Method Parameters >>-----

No items selected for this section

 << B >>-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

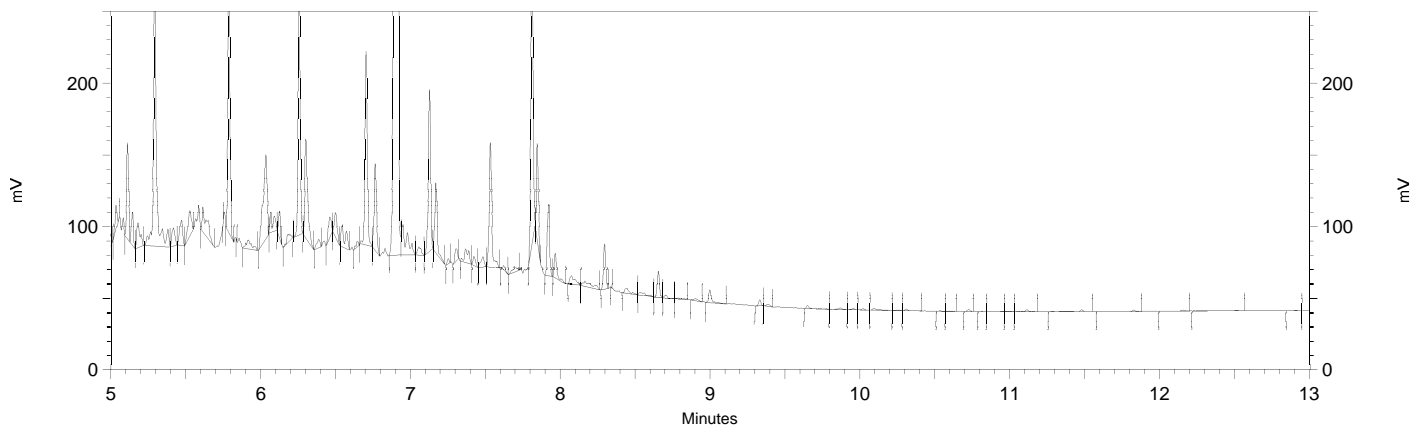
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b025_C824.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: icv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b025
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095B.met
 Run Date: 4/5/2019 9:57:35 PM
 Analysis Date: 4/8/2019 8:29:25 AM
 Instrument: GC14B Vial: 25 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.915	2273937	53.093
Hexacosane	9.648	3451	0.094



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

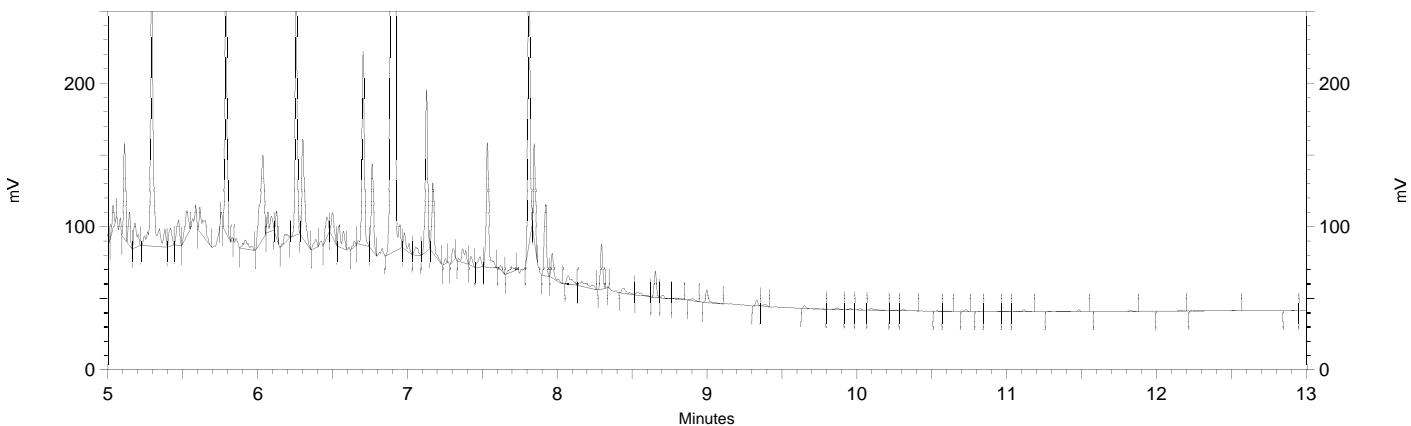
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.859	7.034	0
Yes	Split Peak	6.938	0	0

Sample Name: icv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b025
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095B.met
 Run Date: 4/5/2019 9:57:35 PM
 Analysis Date: 4/8/2019 8:28:57 AM
 Instrument: GC14B Vial: 25 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.915	2282910	53.303
Hexacosane	9.648	3451	0.094



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

ENTHALPY INITIAL CALIBRATION FOR 309066 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229137260003
 Units : mg/L

Name : MO_095
 Date : 05-APR-2019 22:52
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	095_027	229137260027	MO_50	05-APR-2019 22:52	S39615
L2	095_028	229137260028	MO_250	05-APR-2019 23:19	S39616
L3	095_029	229137260029	MO_500	05-APR-2019 23:47	S39617
L4	095_030	229137260030	MO_1000	06-APR-2019 00:14	S39618
L5	095_031	229137260031	MO_2500	06-APR-2019 00:42	S39614 (2X)
L6	095_032	229137260032	MO_5000	06-APR-2019 01:09	S39614

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	31980	33167	30164	30623	28527	25984	AVRG		3.33E-5		30074	8	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	B	50.000	6	250.00	10	500.00	0	1000.0	2	2500.0	-5	5000.0	-14

TKY 04/08/19 : Corrected automatically drawn baseline in multiple levels.

Analyst: TKY

Date: 04/08/19

Reviewer: EAH

Date: 04/08/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B
Calnum : 229137260003

Name : MO_095
Cal Date : 05-APR-2019

ICV 229137260034 (095_034 06-APR-2019) stds: S39627

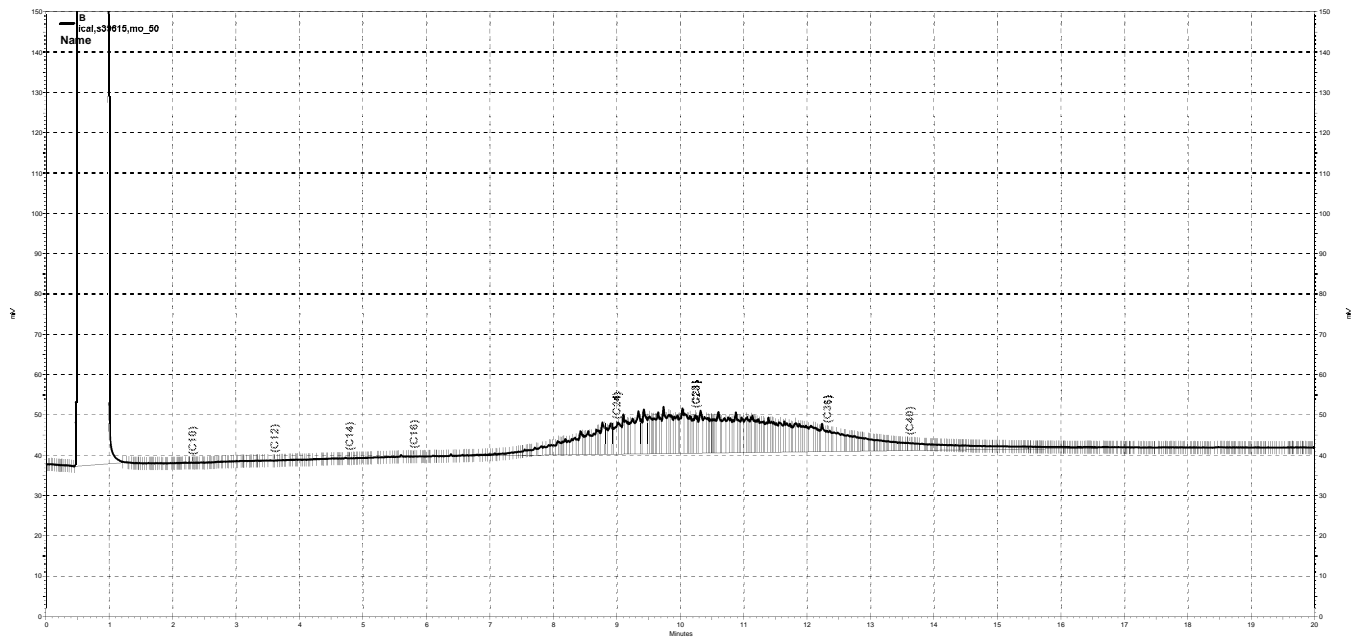
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Motor Oil C24-C36	B	500.0	467.3	mg/L	-7	15	

Analyst: TKY

Date: 04/08/19

Reviewer: EAH

Date: 04/08/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b027, B

Sample Name: ical,s39615,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b027
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 10:52:22 PM
 Analysis Date: 4/8/2019 8:10:04 AM
 Instrument: GC14B Vial: 27 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	25247	0.000 CAL
DSL:10-14	19412	0.000 CAL
DSL:10-22	169518	0.000 CAL
DSL:10-24	415559	0.000 CAL
DSL:10-28	1043636	0.000 CAL
DSL:12-24	404579	0.000 CAL
DSL:12-28	1032656	0.000 CAL
DSL:14-24	397426	0.000 CAL
DSL:16-24	390653	0.000 CAL
MO:22-32	1455212	50.000 CAL
MO:24-36	1598988	50.000 CAL
MO:28-40	1182058	50.000 CAL
BUNKC:10-40	2175788	0.000 CAL
BUNKC:12-40	2164808	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

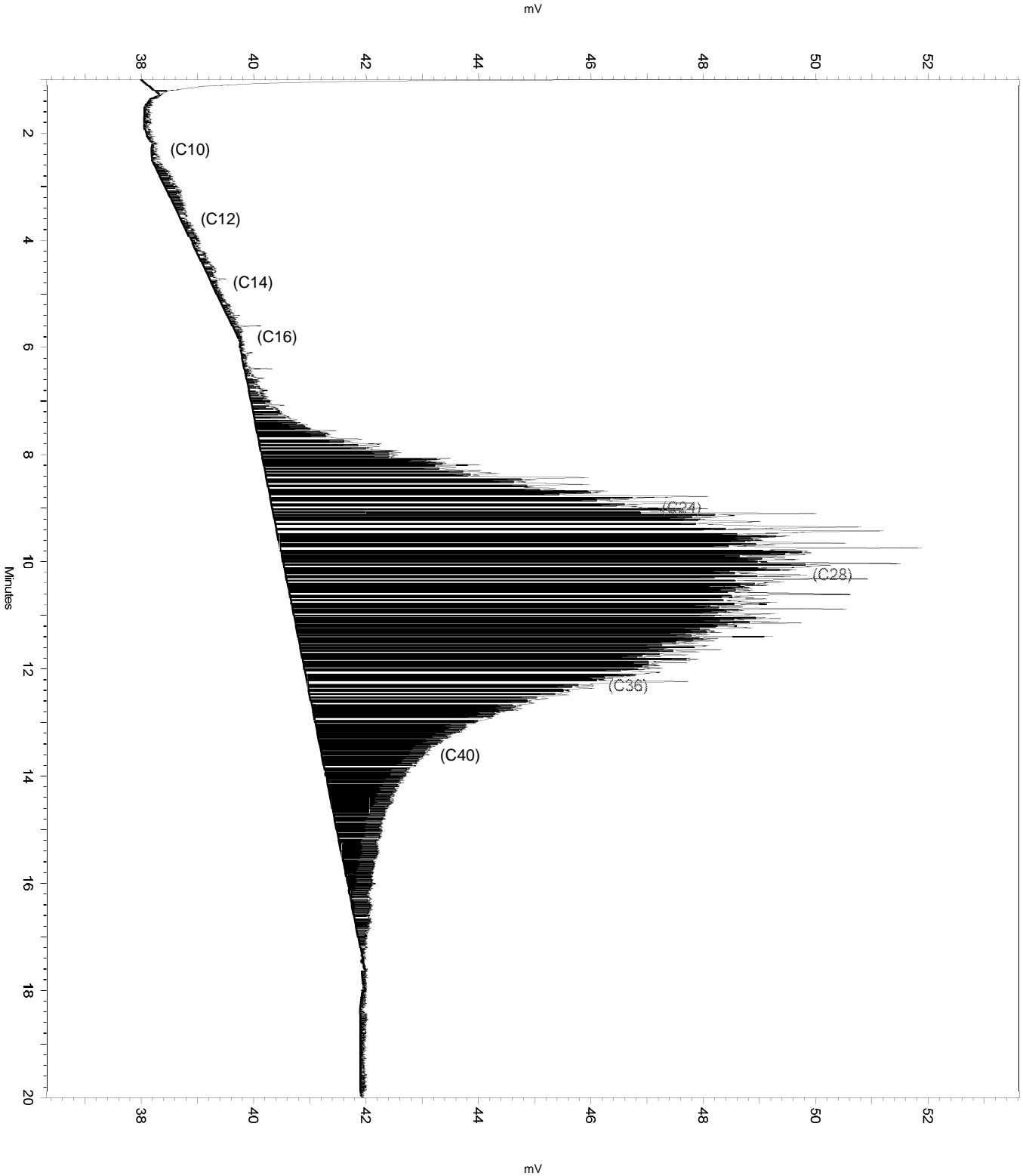
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	6.238	17.647	0

Sample Name: ical,s39615,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b027
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 10:52:22 PM
Analysis Date: 4/8/2019 8:10:04 AM
Instrument: GC14B Vial: 27 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39615,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b027
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 10:52:22 PM
 Analysis Date: 4/8/2019 8:06:05 AM
 Instrument: GC14B Vial: 27 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	25247	0.000 CAL
DSL:10-14	19412	0.000 CAL
DSL:10-22	117083	0.000 CAL
DSL:10-24	307571	0.000 CAL
DSL:10-28	797081	0.000 CAL
DSL:12-24	296591	0.000 CAL
DSL:12-28	786101	0.000 CAL
DSL:14-24	289438	0.000 CAL
DSL:16-24	282665	0.000 CAL
MO:22-32	1068756	50.000 CAL
MO:24-36	1067493	50.000 CAL
MO:28-40	578531	50.000 CAL
BUNKC:10-40	1339176	0.000 CAL
BUNKC:12-40	1328196	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

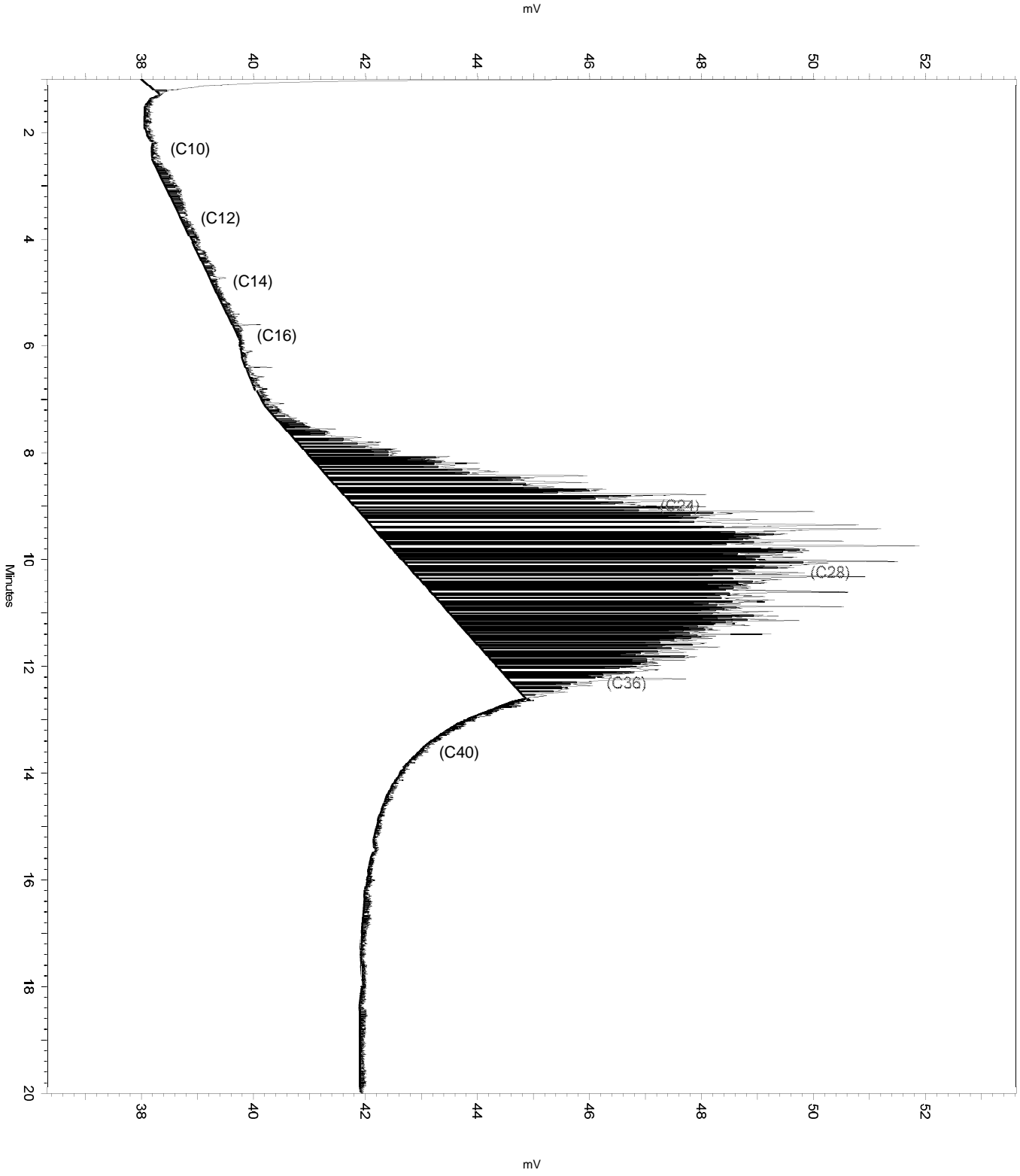
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

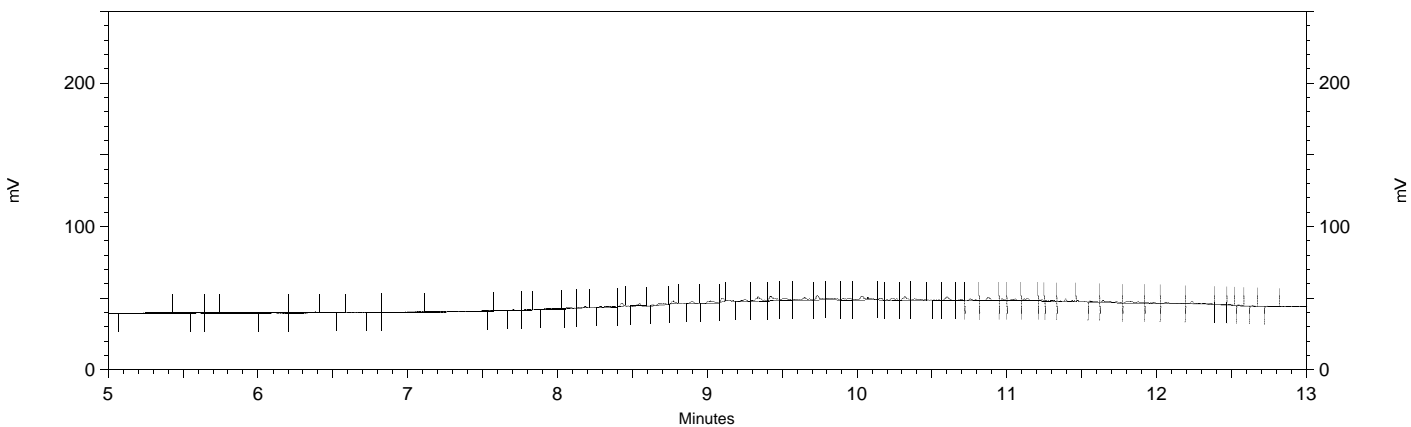
Sample Name: ical,s39615,mo_50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b027
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 10:52:22 PM
Analysis Date: 4/8/2019 8:06:05 AM
Instrument: GC14B Vial: 27 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39615,mo_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b027
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/5/2019 10:52:22 PM
 Analysis Date: 4/5/2019 11:12:32 PM
 Instrument: GC14B Vial: 27 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	9.655	5025	0.116



 < General Method Parameters >-----

No items selected for this section

 < B >-----

No items selected for this section

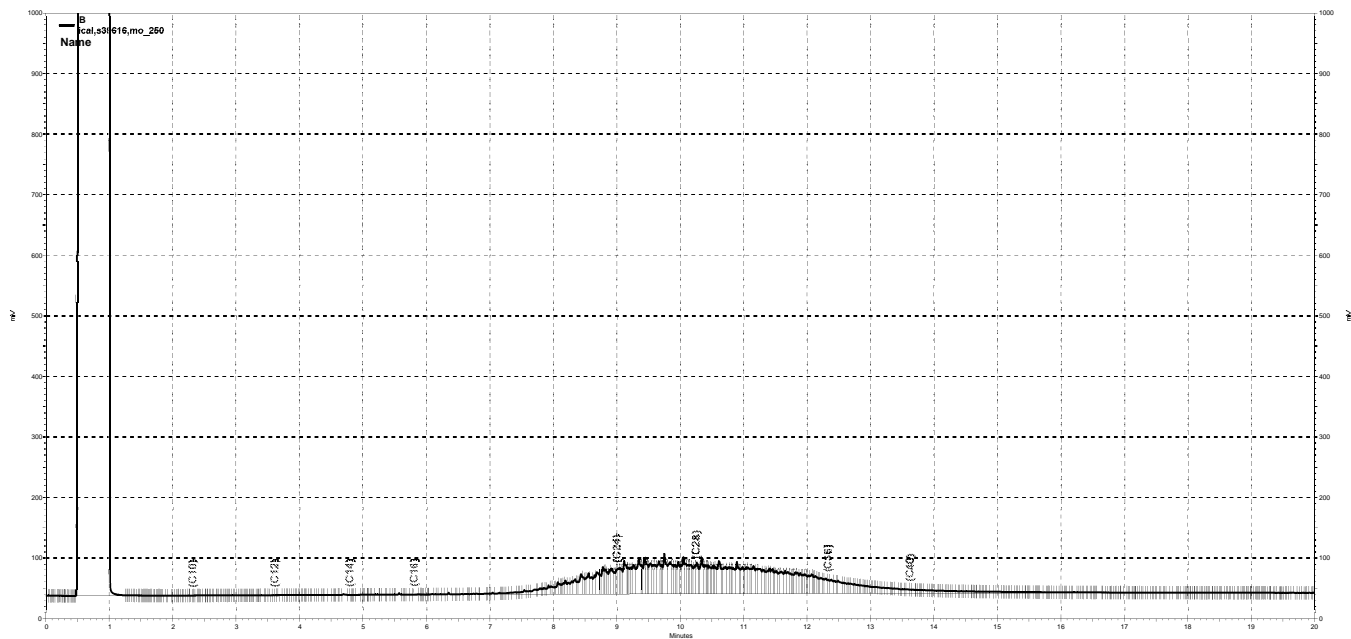
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b027_C826.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b028, B

Sample Name: ical,s39616,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b028
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 11:19:55 PM
 Analysis Date: 4/8/2019 8:10:10 AM
 Instrument: GC14B Vial: 28 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	19299	0.000 CAL
DSL:10-14	11654	0.000 CAL
DSL:10-22	698156	0.000 CAL
DSL:10-24	2030543	0.000 CAL
DSL:10-28	5528218	0.000 CAL
DSL:12-24	2024722	0.000 CAL
DSL:12-28	5522397	0.000 CAL
DSL:14-24	2019070	0.000 CAL
DSL:16-24	2012221	0.000 CAL
MO:22-32	7805861	250.000 CAL
MO:24-36	8291749	250.000 CAL
MO:28-40	5752641	250.000 CAL
BUNKC:10-40	10930976	0.000 CAL
BUNKC:12-40	10925155	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

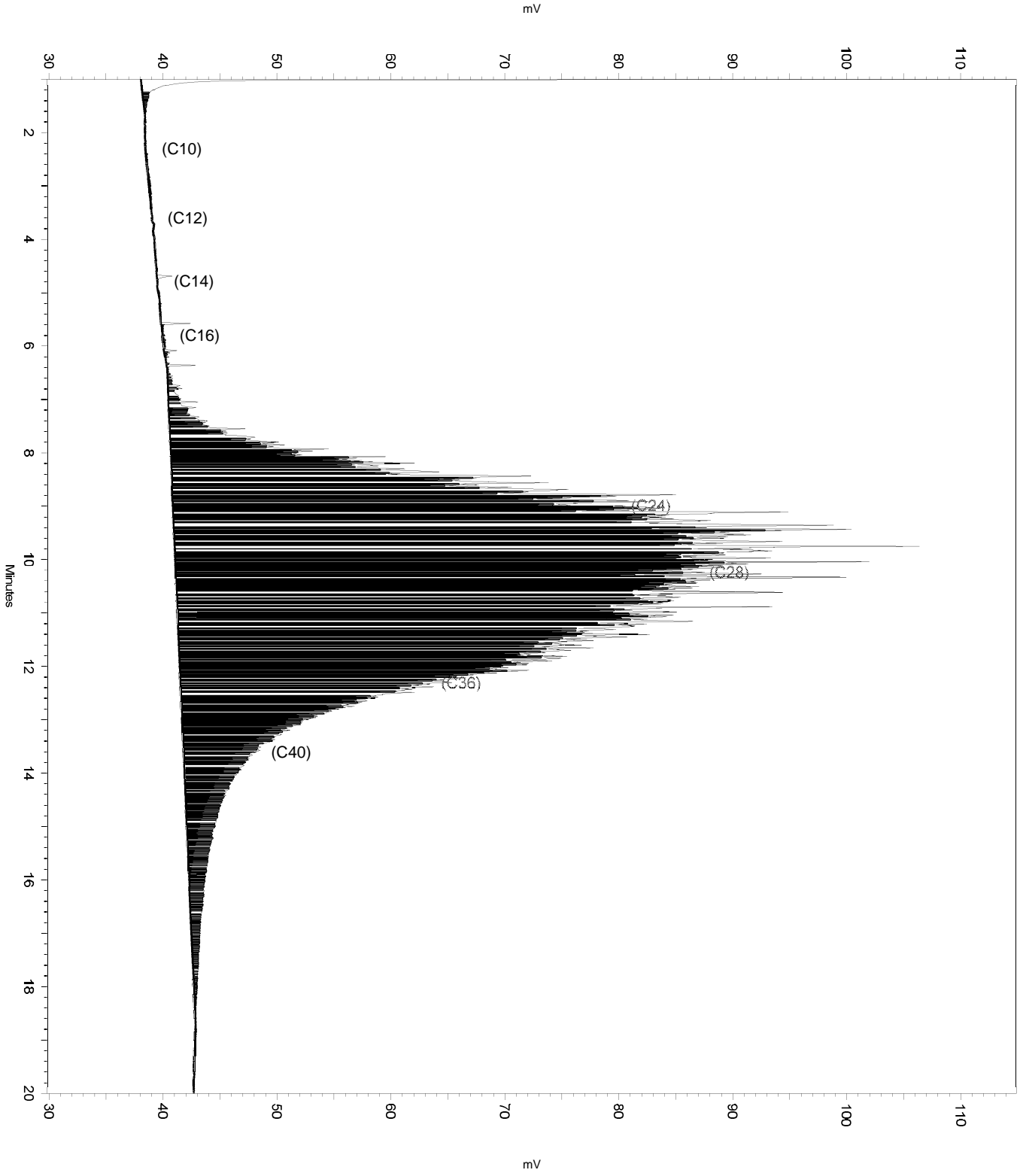
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	16.868	18.864	0

Sample Name: ical,s39616,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b028
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 11:19:55 PM
Analysis Date: 4/8/2019 8:10:10 AM
Instrument: GC14B Vial: 28 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39616,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b028
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 11:19:55 PM
 Analysis Date: 4/8/2019 8:06:35 AM
 Instrument: GC14B Vial: 28 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	19299	0.000 CAL
DSL:10-14	11654	0.000 CAL
DSL:10-22	690320	0.000 CAL
DSL:10-24	2016051	0.000 CAL
DSL:10-28	5497003	0.000 CAL
DSL:12-24	2010230	0.000 CAL
DSL:12-28	5491182	0.000 CAL
DSL:14-24	2004578	0.000 CAL
DSL:16-24	1997729	0.000 CAL
MO:22-32	7760862	250.000 CAL
MO:24-36	8230968	250.000 CAL
MO:28-40	5672366	250.000 CAL
BUNKC:10-40	10821536	0.000 CAL
BUNKC:12-40	10815715	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

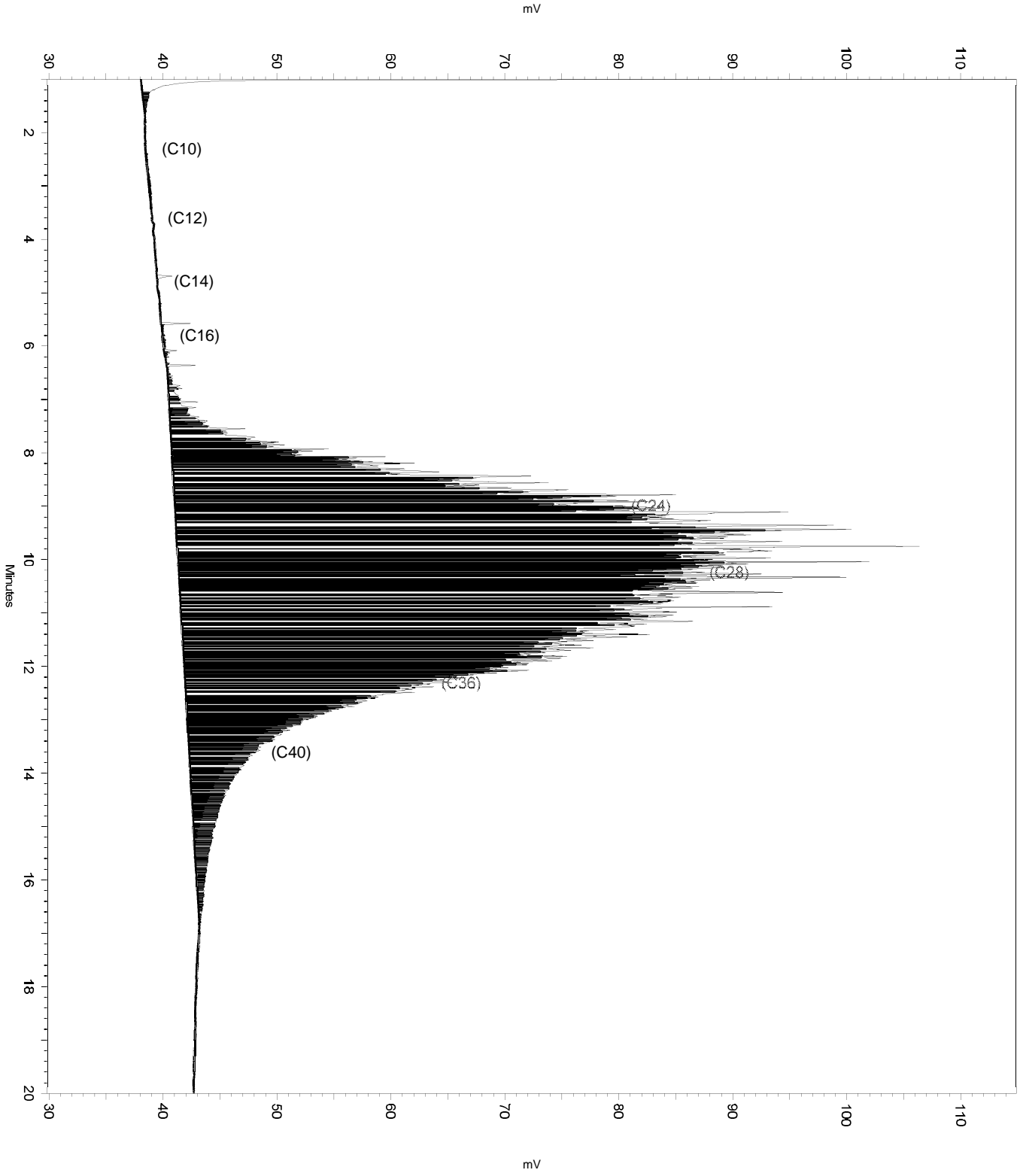
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0      0
Yes Threshold            0          0     10
Yes Force Peak Stop     2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b028
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

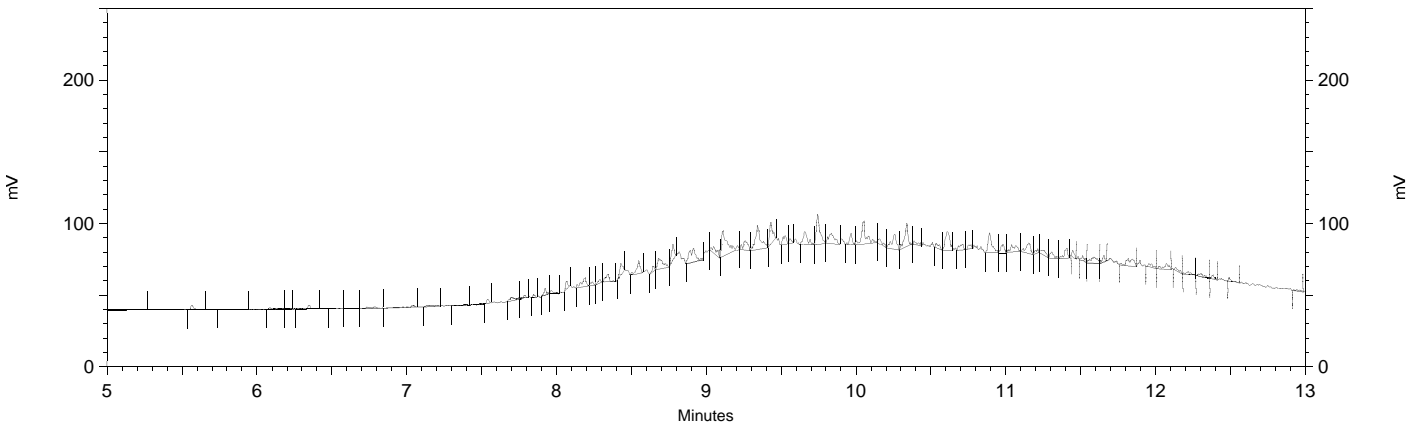
Sample Name: ical,s39616,mo_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b028
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 11:19:55 PM
Analysis Date: 4/8/2019 8:06:35 AM
Instrument: GC14B Vial: 28 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39616,mo_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b028
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/5/2019 11:19:55 PM
 Analysis Date: 4/5/2019 11:40:04 PM
 Instrument: GC14B Vial: 28 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	9.662	20825	0.480



 < General Method Parameters >

No items selected for this section

 < B >

No items selected for this section

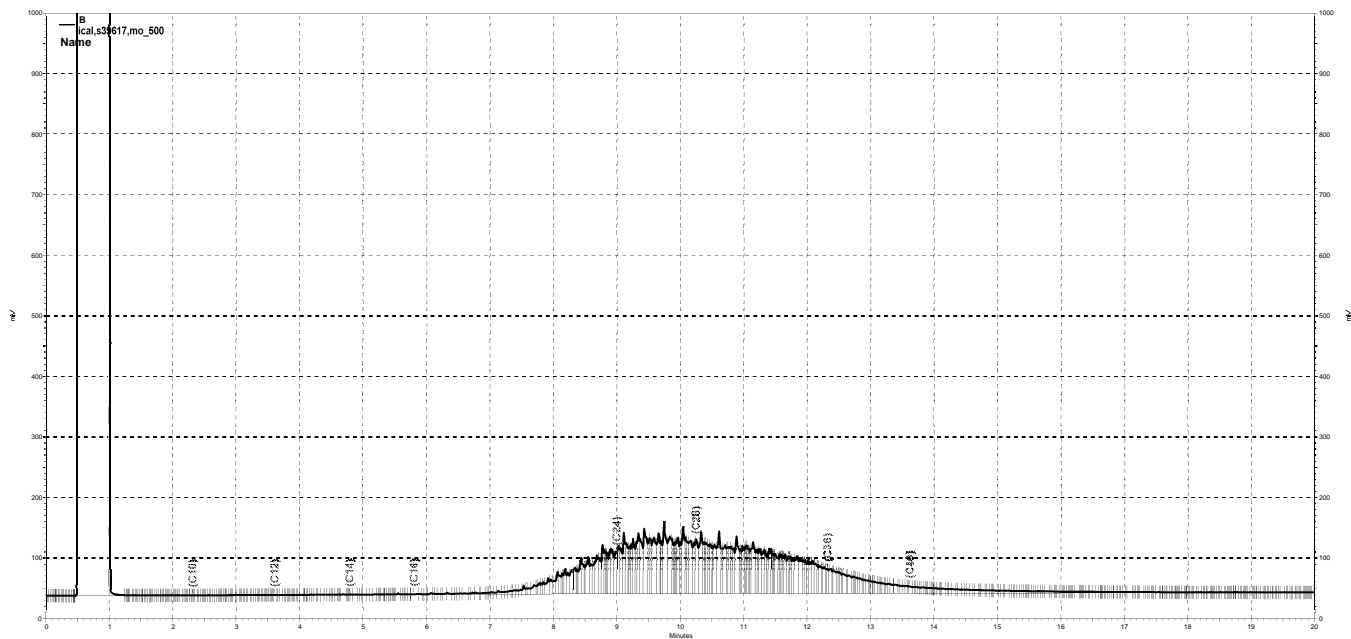
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b028_C827.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b029, B

Sample Name: ical,s39617,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b029
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/5/2019 11:47:16 PM
 Analysis Date: 4/8/2019 8:10:16 AM
 Instrument: GC14B Vial: 29 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	24220	0.000 CAL
DSL:10-14	15023	0.000 CAL
DSL:10-22	1345078	0.000 CAL
DSL:10-24	3868574	0.000 CAL
DSL:10-28	10115491	0.000 CAL
DSL:12-24	3859901	0.000 CAL
DSL:12-28	10106818	0.000 CAL
DSL:14-24	3853942	0.000 CAL
DSL:16-24	3845828	0.000 CAL
MO:22-32	14313827	500.000 CAL
MO:24-36	15081833	500.000 CAL
MO:28-40	10290943	500.000 CAL
BUNKC:10-40	19929344	0.000 CAL
BUNKC:12-40	19920672	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

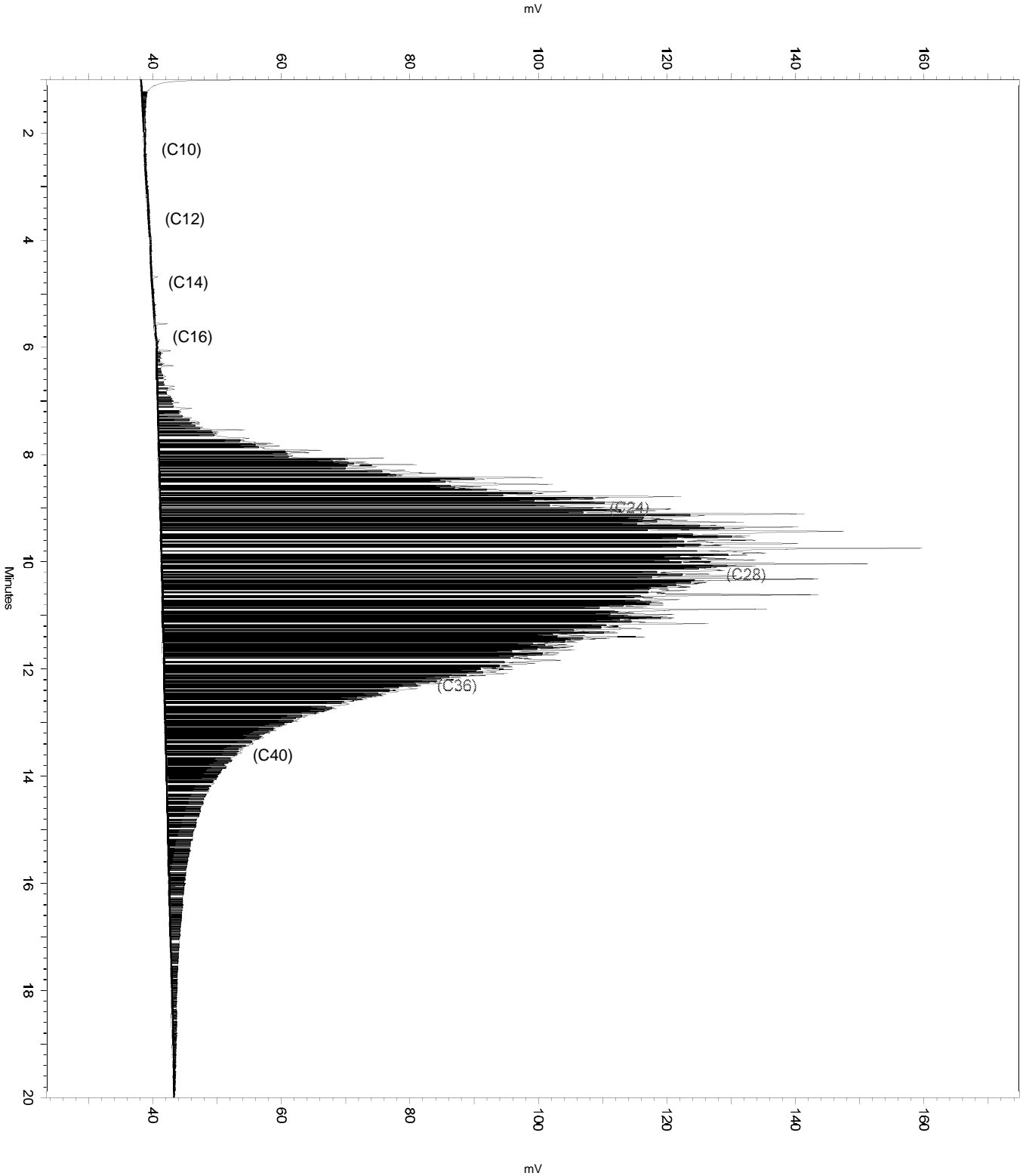
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

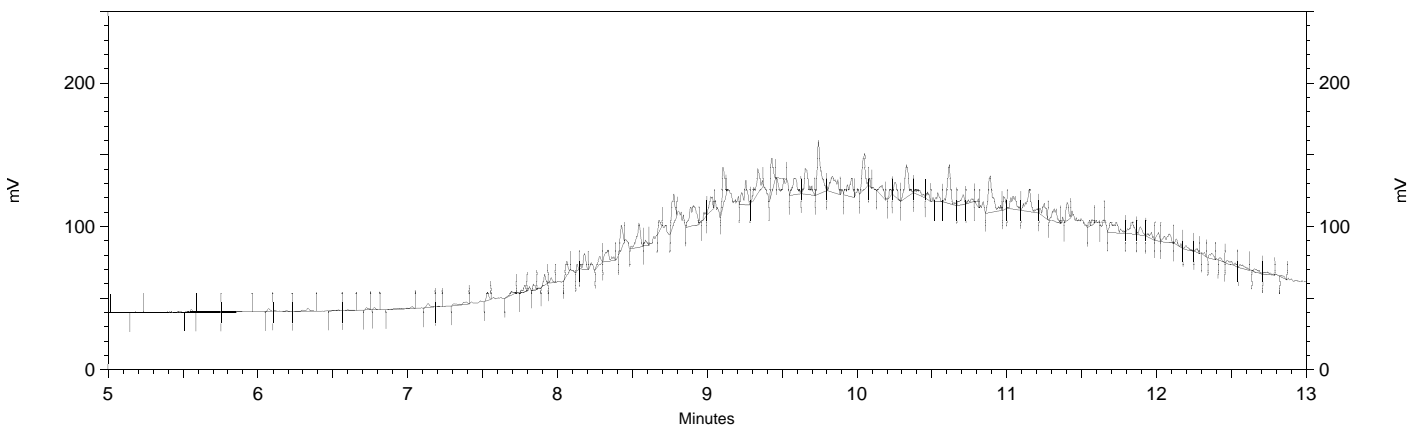
Sample Name: ical,s39617,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b029
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/5/2019 11:47:16 PM
Analysis Date: 4/8/2019 8:10:16 AM
Instrument: GC14B Vial: 29 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39617,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b029
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/5/2019 11:47:16 PM
 Analysis Date: 4/6/2019 12:07:25 AM
 Instrument: GC14B Vial: 29 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	9.658	37862	0.872



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

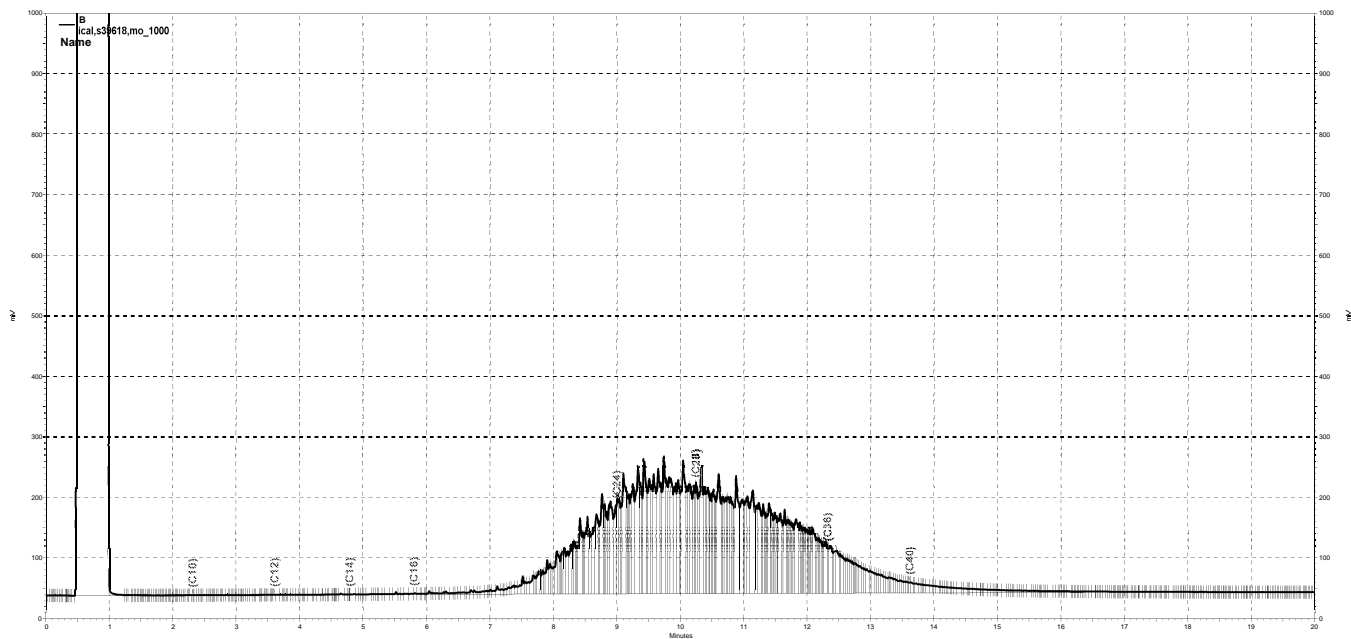
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b029_C828.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b030, B

Sample Name: ical,s39618,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/6/2019 12:14:28 AM
 Analysis Date: 4/8/2019 8:10:23 AM
 Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	60819	0.000 CAL
DSL:10-14	17758	0.000 CAL
DSL:10-22	2939950	0.000 CAL
DSL:10-24	8080918	0.000 CAL
DSL:10-28	21084714	0.000 CAL
DSL:12-24	8074676	0.000 CAL
DSL:12-28	21078470	0.000 CAL
DSL:14-24	8066773	0.000 CAL
DSL:16-24	8032196	0.000 CAL
MO:22-32	29041698	1000.000 CAL
MO:24-36	30623268	1000.000 CAL
MO:28-40	20350490	1000.000 CAL
BUNKC:10-40	40321696	0.000 CAL
BUNKC:12-40	40315448	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

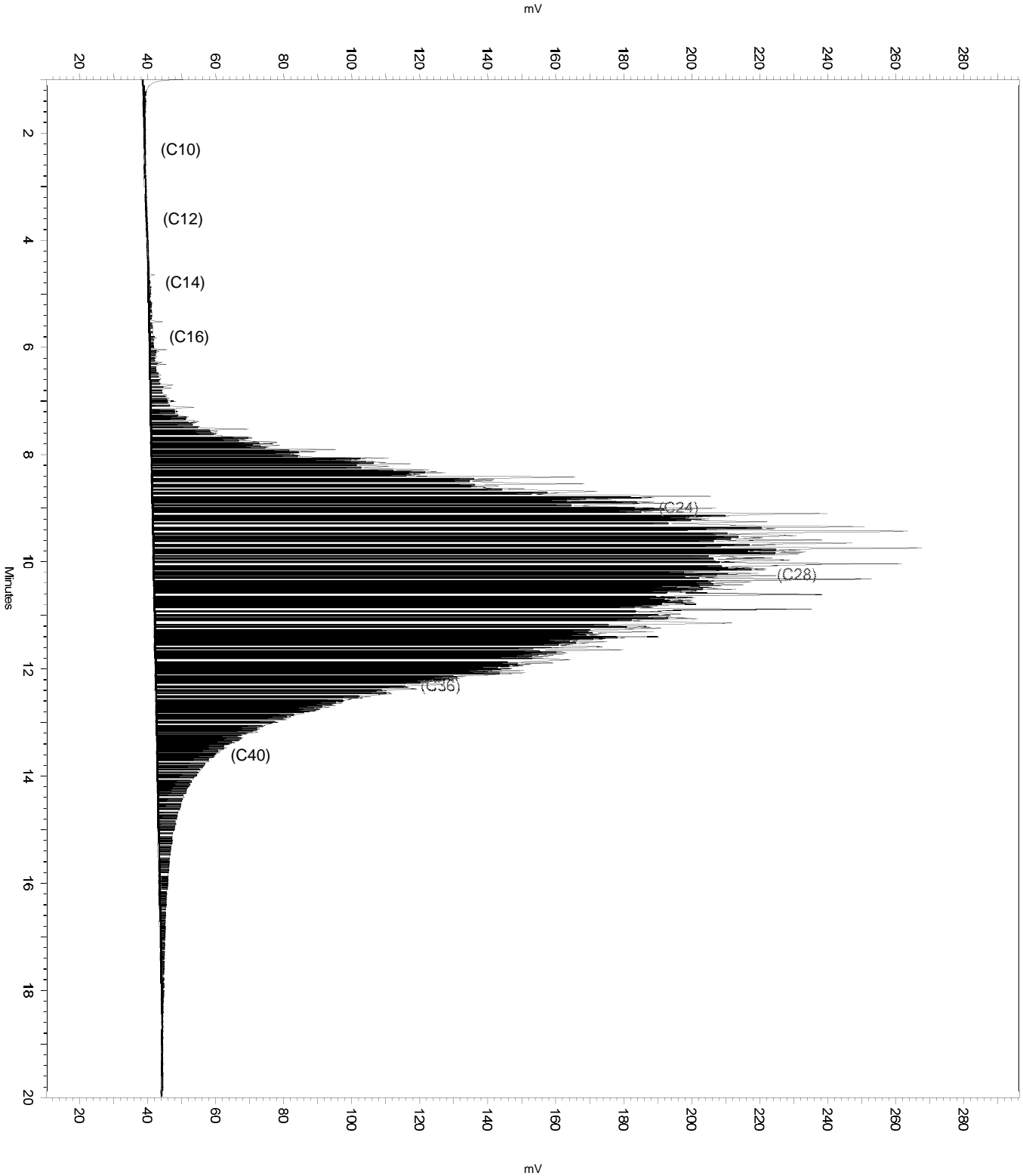
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	17.107	18.709	0

Sample Name: ical,s39618,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b030
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/6/2019 12:14:28 AM
Analysis Date: 4/8/2019 8:10:23 AM
Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39618,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/6/2019 12:14:28 AM
 Analysis Date: 4/8/2019 8:07:15 AM
 Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	57380	0.000 CAL
DSL:10-14	17563	0.000 CAL
DSL:10-22	2911707	0.000 CAL
DSL:10-24	8041380	0.000 CAL
DSL:10-28	21020772	0.000 CAL
DSL:12-24	8035138	0.000 CAL
DSL:12-28	21014528	0.000 CAL
DSL:14-24	8027269	0.000 CAL
DSL:16-24	7995222	0.000 CAL
MO:22-32	28976804	1000.000 CAL
MO:24-36	30541352	1000.000 CAL
MO:28-40	20250132	1000.000 CAL
BUNKC:10-40	40159816	0.000 CAL
BUNKC:12-40	40153568	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

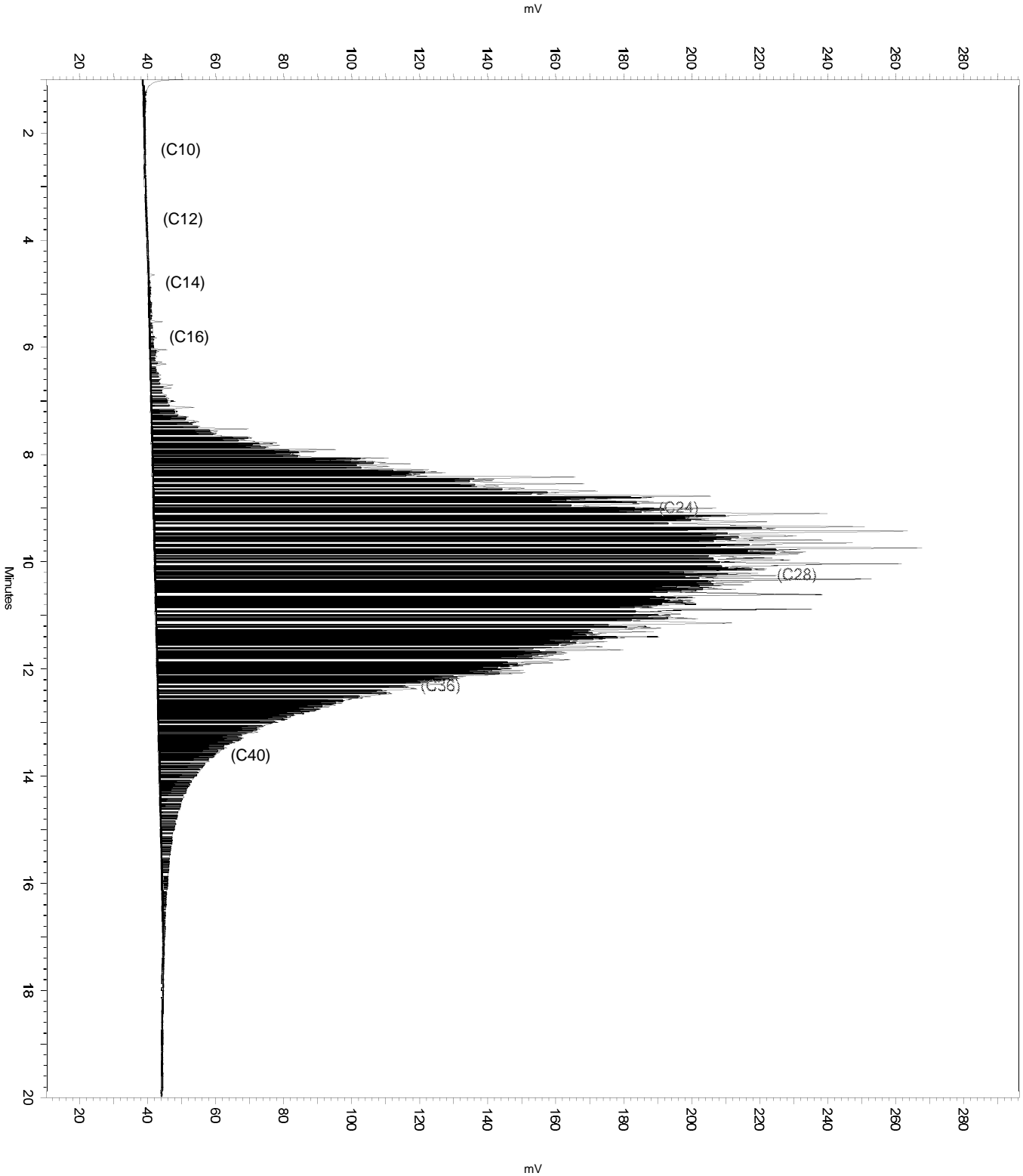
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

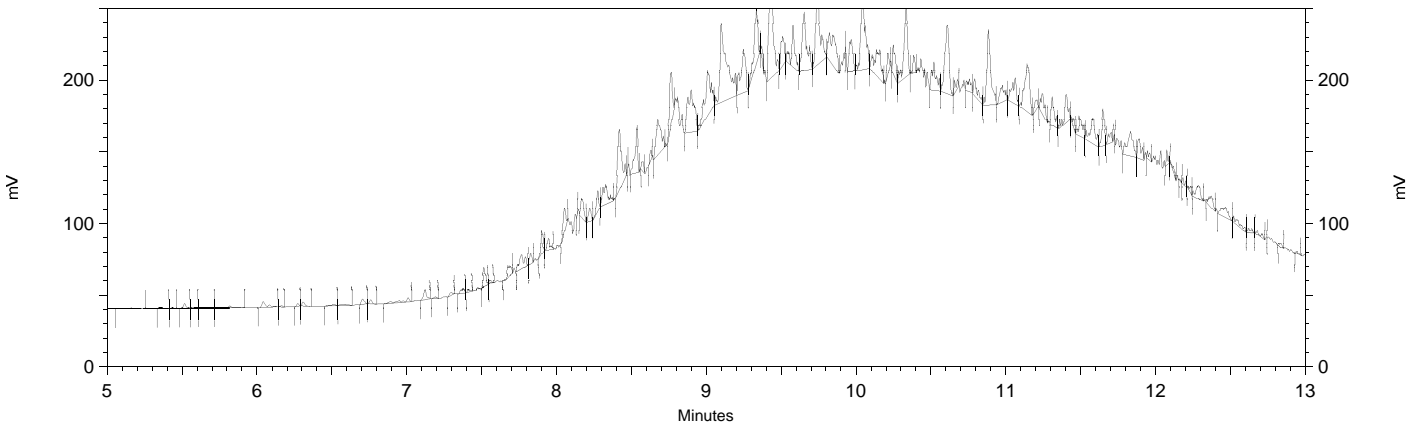
Sample Name: ical,s39618,mo_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b030
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/6/2019 12:14:28 AM
Analysis Date: 4/8/2019 8:07:15 AM
Instrument: GC14B Vial: 30 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39618,mo_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b030
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/6/2019 12:14:28 AM
 Analysis Date: 4/6/2019 12:34:37 AM
 Instrument: GC14B Vial: 30 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl			0.000 BDL
Hexacosane	9.653	84181	1.940



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

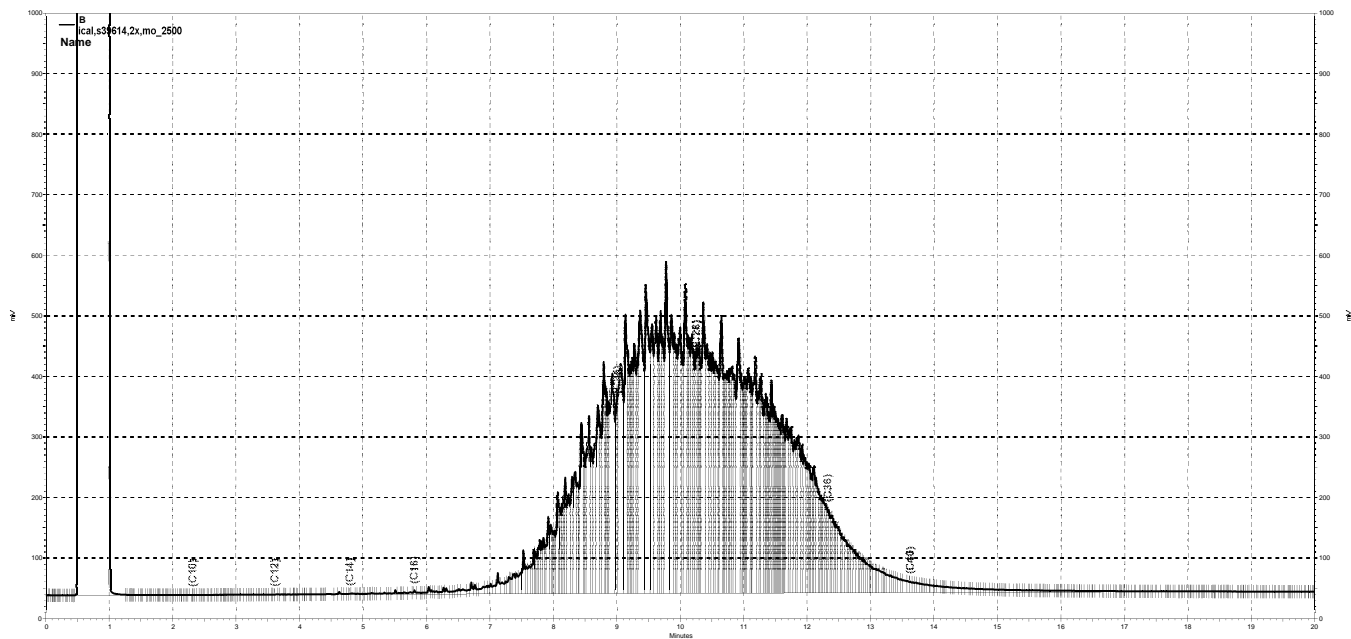
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b030_C829.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b031, B

Sample Name: ical,s39614,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/6/2019 12:42:01 AM
 Analysis Date: 4/8/2019 8:10:29 AM
 Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	140616	0.000 CAL
DSL:10-14	38904	0.000 CAL
DSL:10-22	6628917	0.000 CAL
DSL:10-24	19174022	0.000 CAL
DSL:10-28	49277700	0.000 CAL
DSL:12-24	19168384	0.000 CAL
DSL:12-28	49272060	0.000 CAL
DSL:14-24	19144900	0.000 CAL
DSL:16-24	19067348	0.000 CAL
MO:22-32	67658832	2500.000 CAL
MO:24-36	71318720	2500.000 CAL
MO:28-40	44461056	2500.000 CAL
BUNKC:10-40	89711872	0.000 CAL
BUNKC:12-40	89706240	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

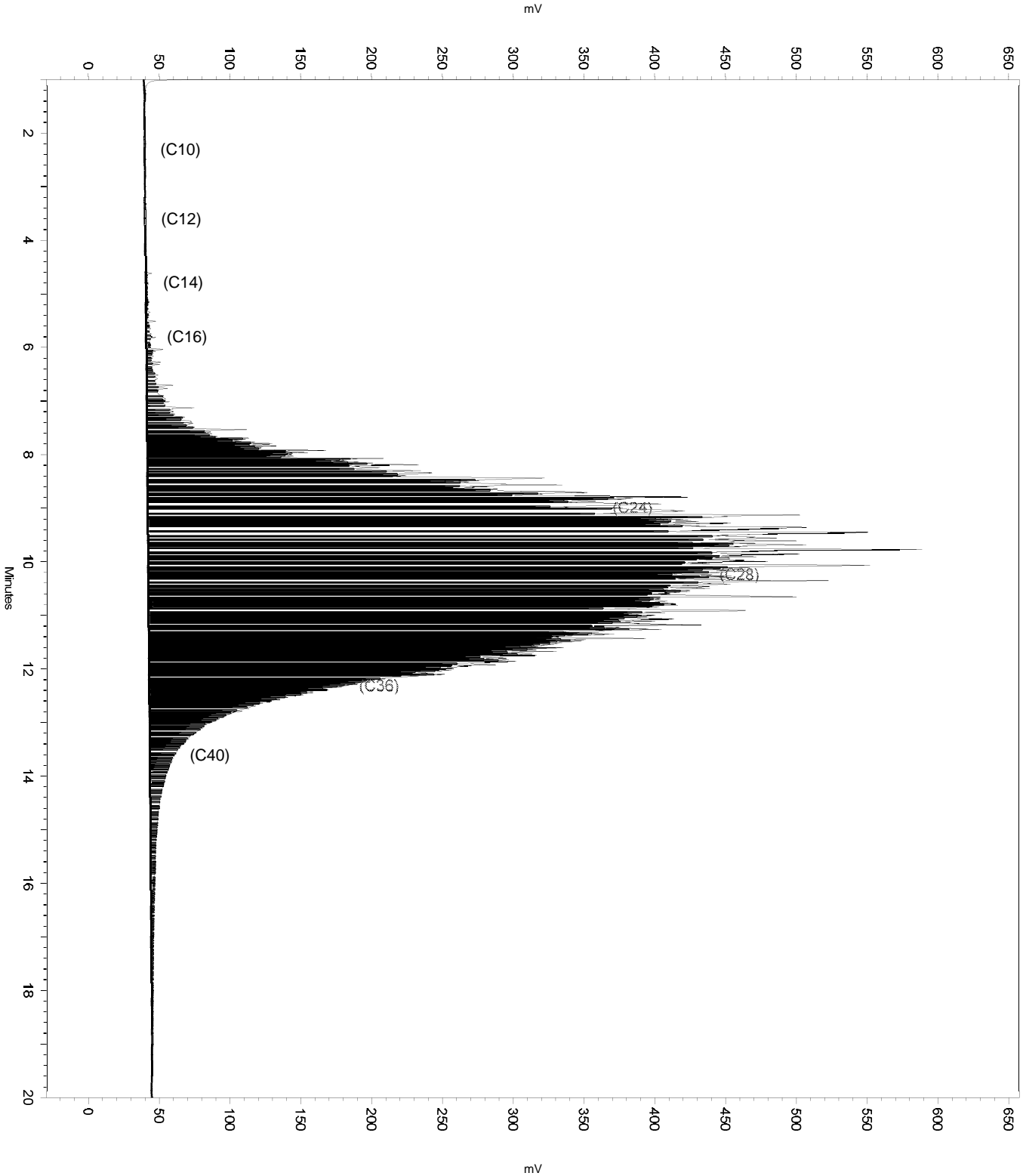
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	17.513	19.041	0

Sample Name: ical,s39614,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b031
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/6/2019 12:42:01 AM
Analysis Date: 4/8/2019 8:10:29 AM
Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39614,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/6/2019 12:42:01 AM
 Analysis Date: 4/8/2019 8:07:42 AM
 Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	131300	0.000 CAL
DSL:10-14	36073	0.000 CAL
DSL:10-22	6589042	0.000 CAL
DSL:10-24	19120746	0.000 CAL
DSL:10-28	49198240	0.000 CAL
DSL:12-24	19115110	0.000 CAL
DSL:12-28	49192608	0.000 CAL
DSL:14-24	19093722	0.000 CAL
DSL:16-24	19021778	0.000 CAL
MO:22-32	67588912	2500.000 CAL
MO:24-36	71231800	2500.000 CAL
MO:28-40	44357472	2500.000 CAL
BUNKC:10-40	89532856	0.000 CAL
BUNKC:12-40	89527224	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

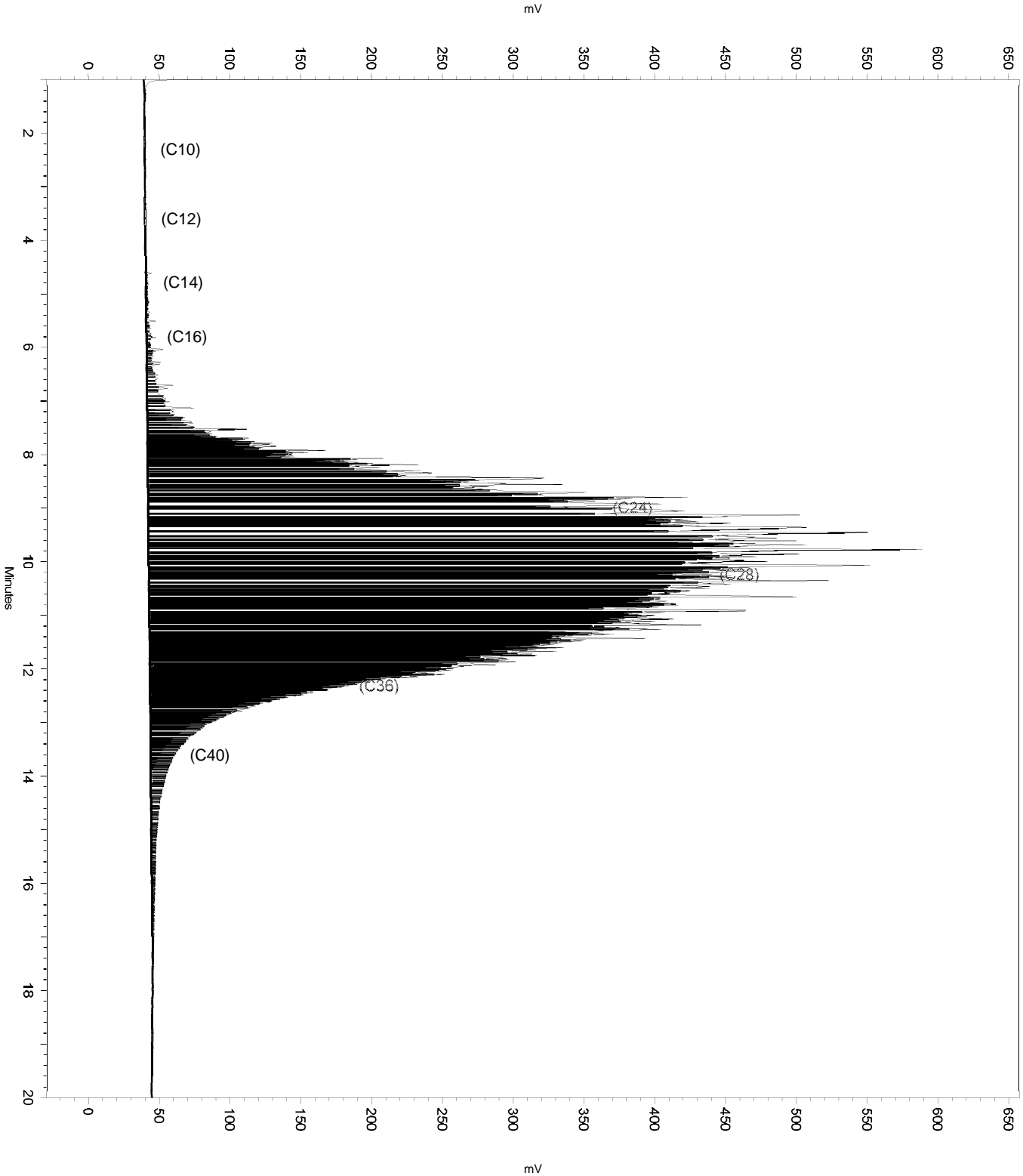
=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes   Width              0          0      0
Yes   Threshold           0          0     10
Yes   Force Peak Stop    2.27       0        0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b031
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

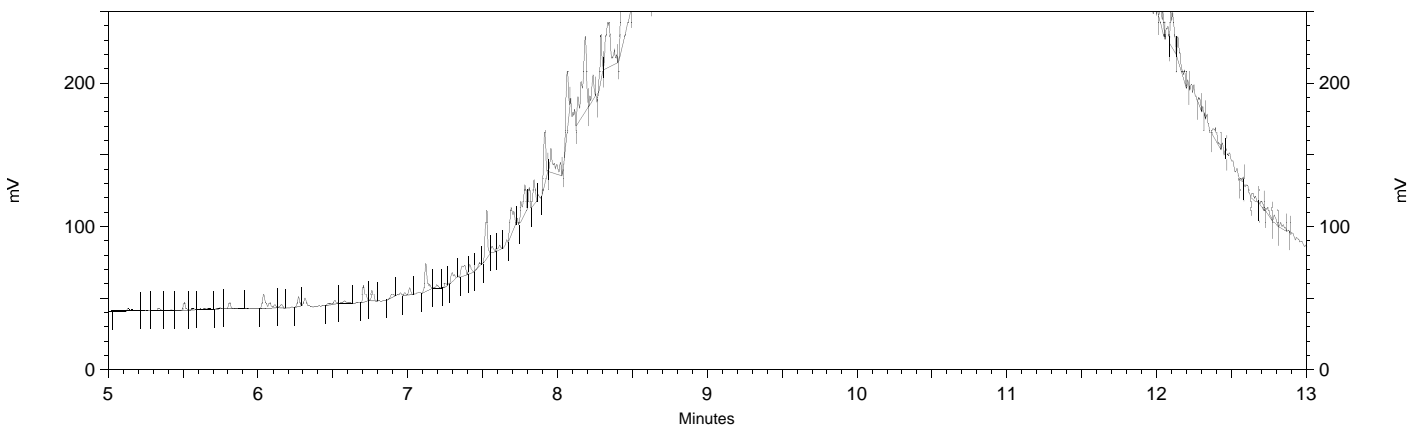
Sample Name: ical,s39614,2x,mo_2500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b031
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/6/2019 12:42:01 AM
Analysis Date: 4/8/2019 8:07:42 AM
Instrument: GC14B Vial: 31 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39614,2x,mo_2500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b031
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/6/2019 12:42:01 AM
 Analysis Date: 4/6/2019 1:02:11 AM
 Instrument: GC14B Vial: 31 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.895	3383	0.063
Hexacosane	9.687	105890	2.440



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

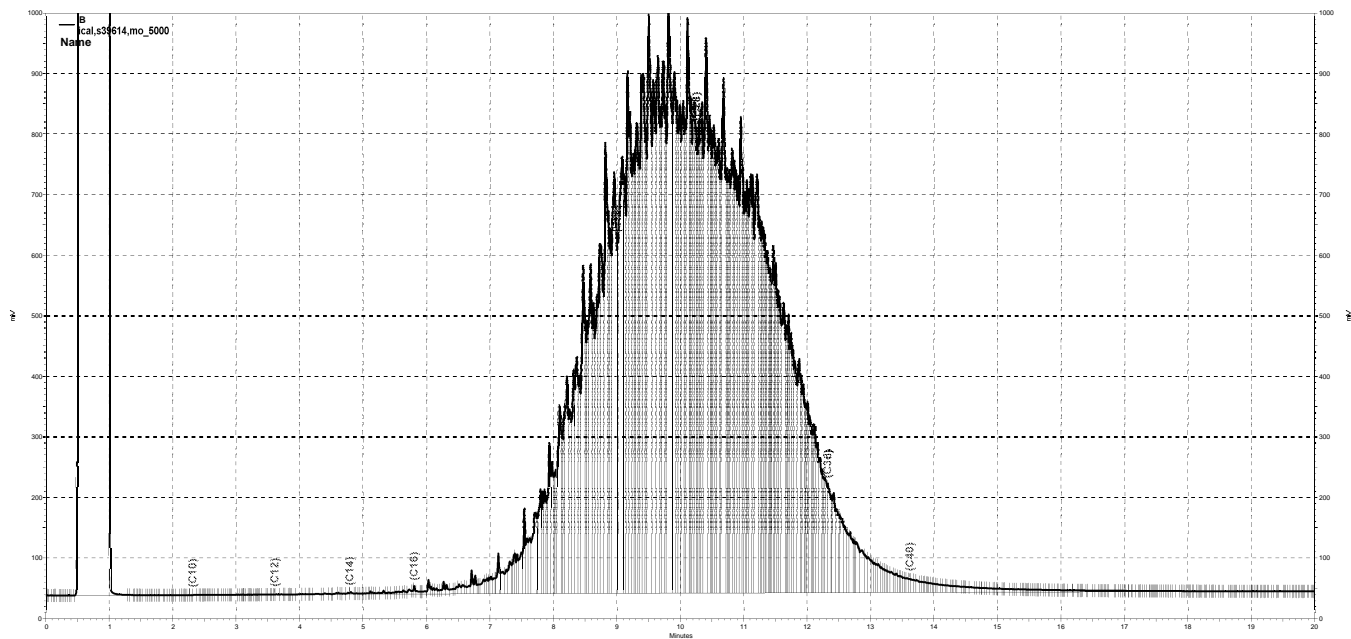
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b031_C82A.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b032, B

Sample Name: ical,s39614,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b032
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/6/2019 1:09:21 AM
 Analysis Date: 4/8/2019 8:10:36 AM
 Instrument: GC14B Vial: 32 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	236383	0.000 CAL
DSL:10-14	53720	0.000 CAL
DSL:10-22	13171496	0.000 CAL
DSL:10-24	32747348	0.000 CAL
DSL:10-28	92750864	0.000 CAL
DSL:12-24	32736636	0.000 CAL
DSL:12-28	92740144	0.000 CAL
DSL:14-24	32707492	0.000 CAL
DSL:16-24	32579648	0.000 CAL
MO:22-32	128521416	5000.000 CAL
MO:24-36	129922096	5000.000 CAL
MO:28-40	76237696	5000.000 CAL
BUNKC:10-40	163679920	0.000 CAL
BUNKC:12-40	163669200	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

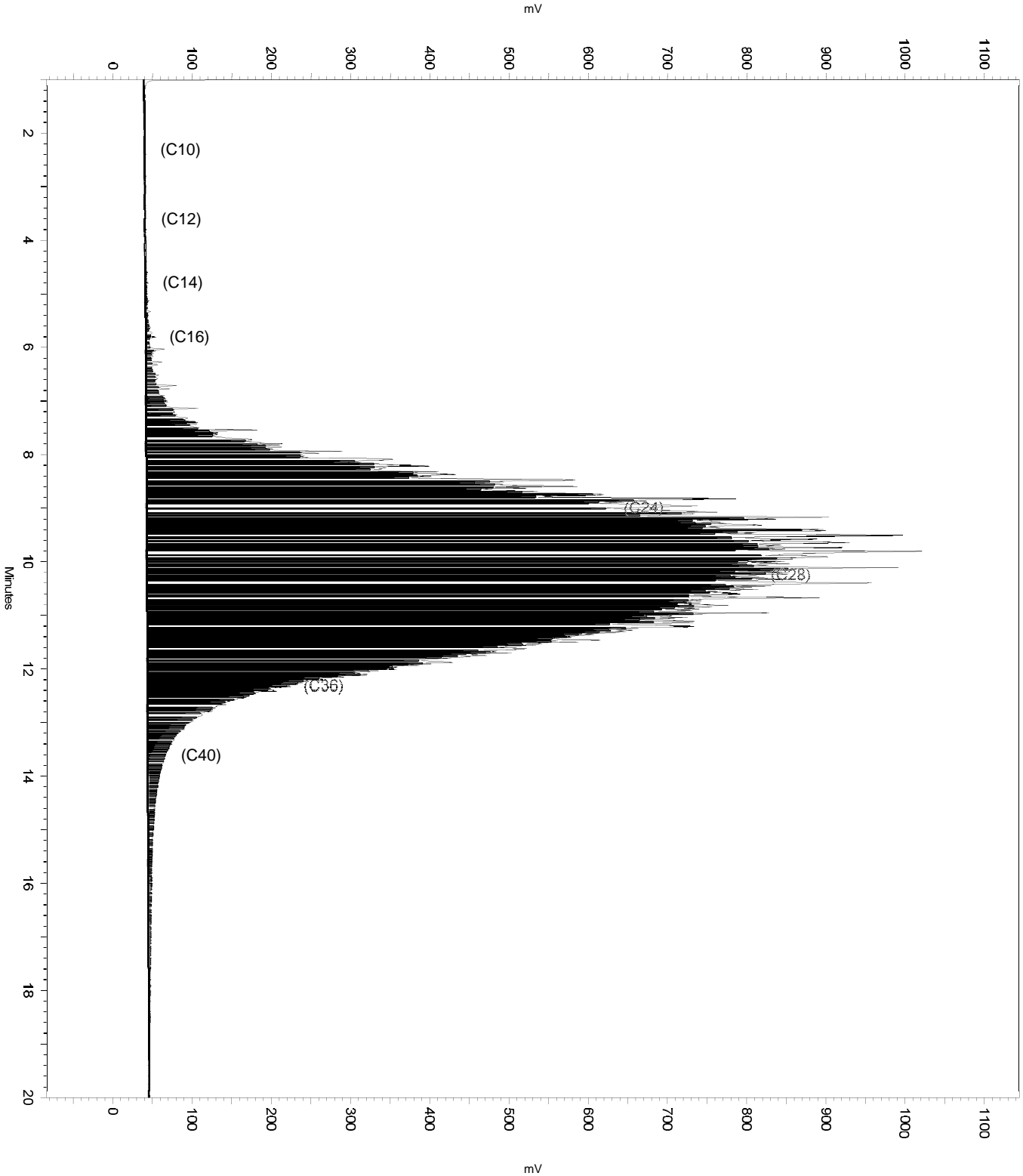
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	16.188	19.395	0

Sample Name: ical,s39614,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b032
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/6/2019 1:09:21 AM
Analysis Date: 4/8/2019 8:10:36 AM
Instrument: GC14B Vial: 32 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39614,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b032
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/6/2019 1:09:21 AM
 Analysis Date: 4/8/2019 8:08:07 AM
 Instrument: GC14B Vial: 32 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	217586	0.000 CAL
DSL:10-14	50938	0.000 CAL
DSL:10-22	13056432	0.000 CAL
DSL:10-24	32595214	0.000 CAL
DSL:10-28	92507080	0.000 CAL
DSL:12-24	32584498	0.000 CAL
DSL:12-28	92496376	0.000 CAL
DSL:14-24	32557126	0.000 CAL
DSL:16-24	32441994	0.000 CAL
MO:22-32	128287272	5000.000 CAL
MO:24-36	129627848	5000.000 CAL
MO:28-40	75878096	5000.000 CAL
BUNKC:10-40	163085648	0.000 CAL
BUNKC:12-40	163074960	0.000 CAL

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

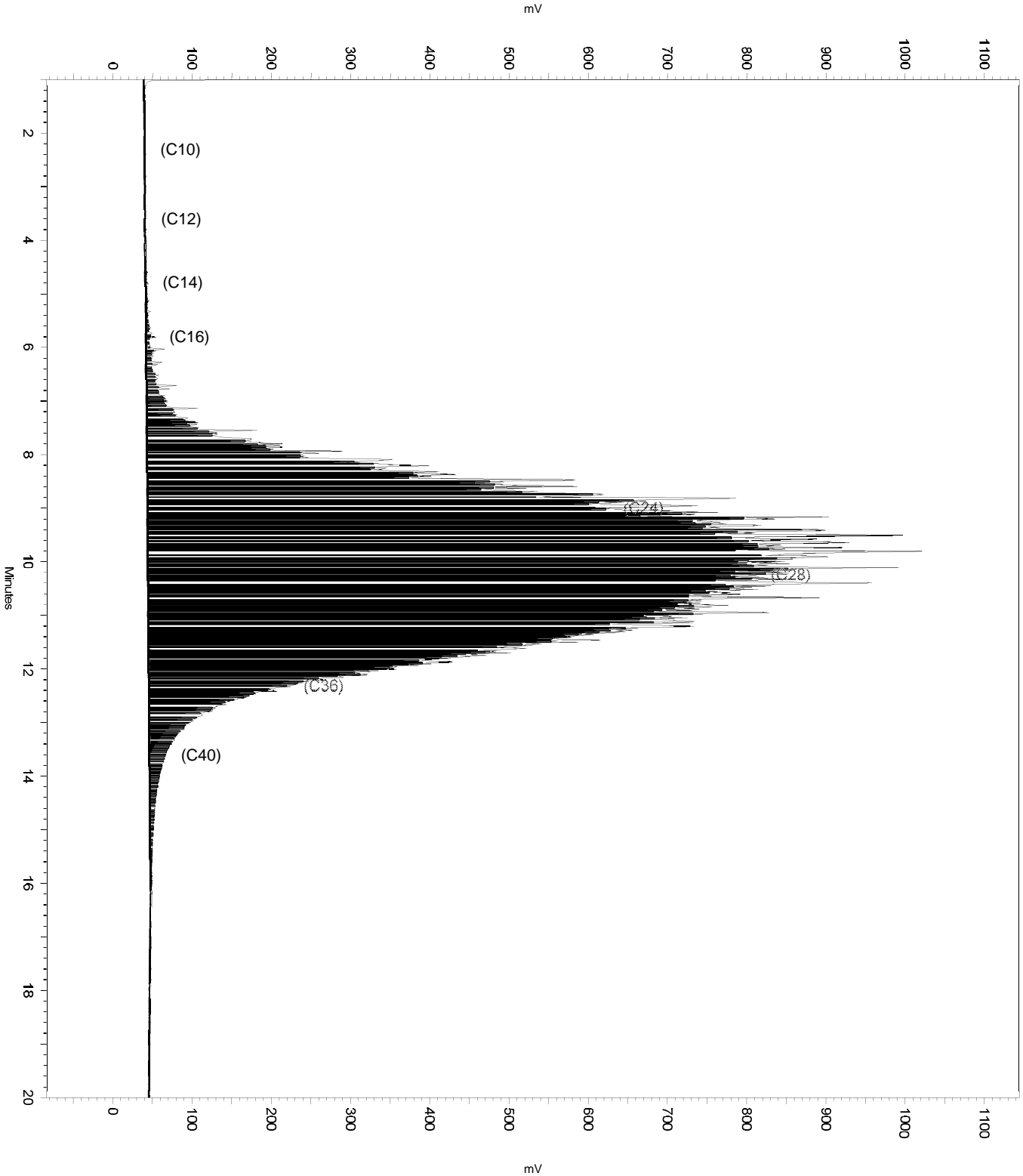
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

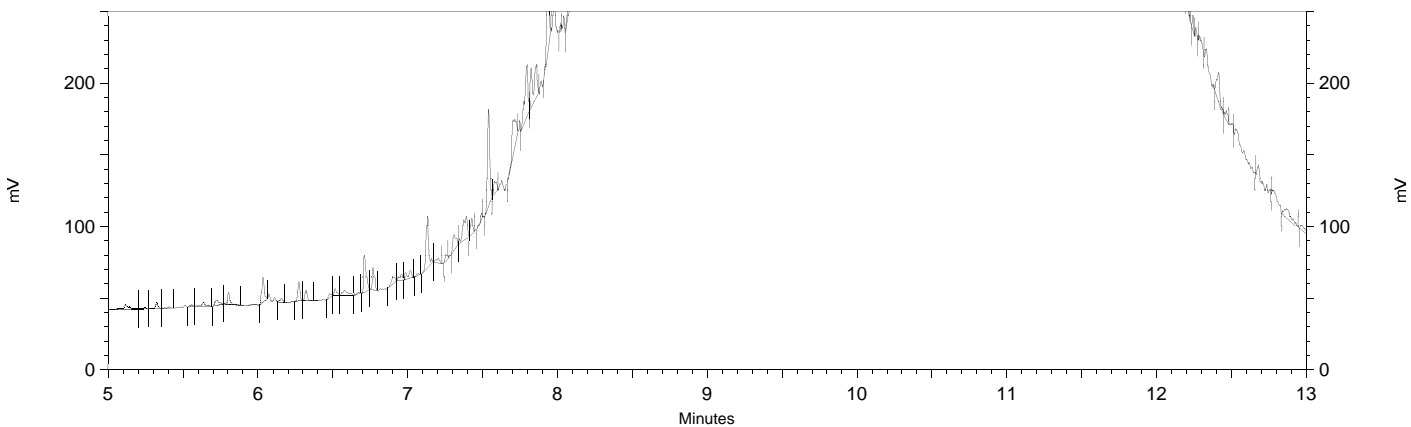
Sample Name: ical,s39614,mo_5000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b032
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/6/2019 1:09:21 AM
Analysis Date: 4/8/2019 8:08:07 AM
Instrument: GC14B Vial: 32 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ical,s39614,mo_5000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b032
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095.met
 Run Date: 4/6/2019 1:09:21 AM
 Analysis Date: 4/6/2019 1:29:31 AM
 Instrument: GC14B Vial: 32 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.902	6953	0.130
Hexacosane	9.645	240152	5.533



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

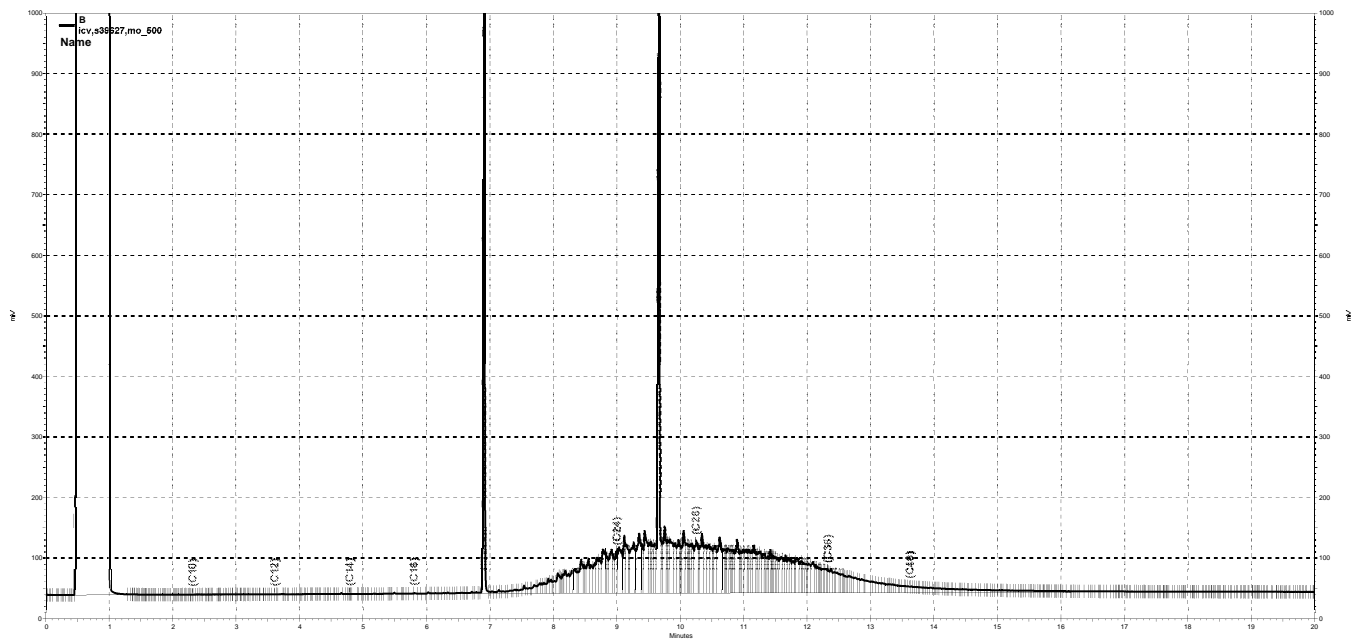
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\095b032_C82B.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b034, B

Sample Name: icv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b034
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
 Run Date: 4/6/2019 2:03:52 AM
 Analysis Date: 4/8/2019 8:30:47 AM
 Instrument: GC14B Vial: 34 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	25817	0.694
DSL:10-14	17078	1.215
DSL:10-22	3494737	93.460
DSL:10-24	5851326	152.189
DSL:10-28	13619782	347.572
DSL:12-24	5842268	173.695
DSL:12-28	13610724	395.974
DSL:14-24	5834491	225.589
DSL:16-24	5827475	327.779
MO:22-32	15236187	535.339
MO:24-36	16044025	533.480
MO:28-40	9625246	478.804
BUNKC:10-40	22672508	989.203
BUNKC:12-40	22663452	1023.639

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

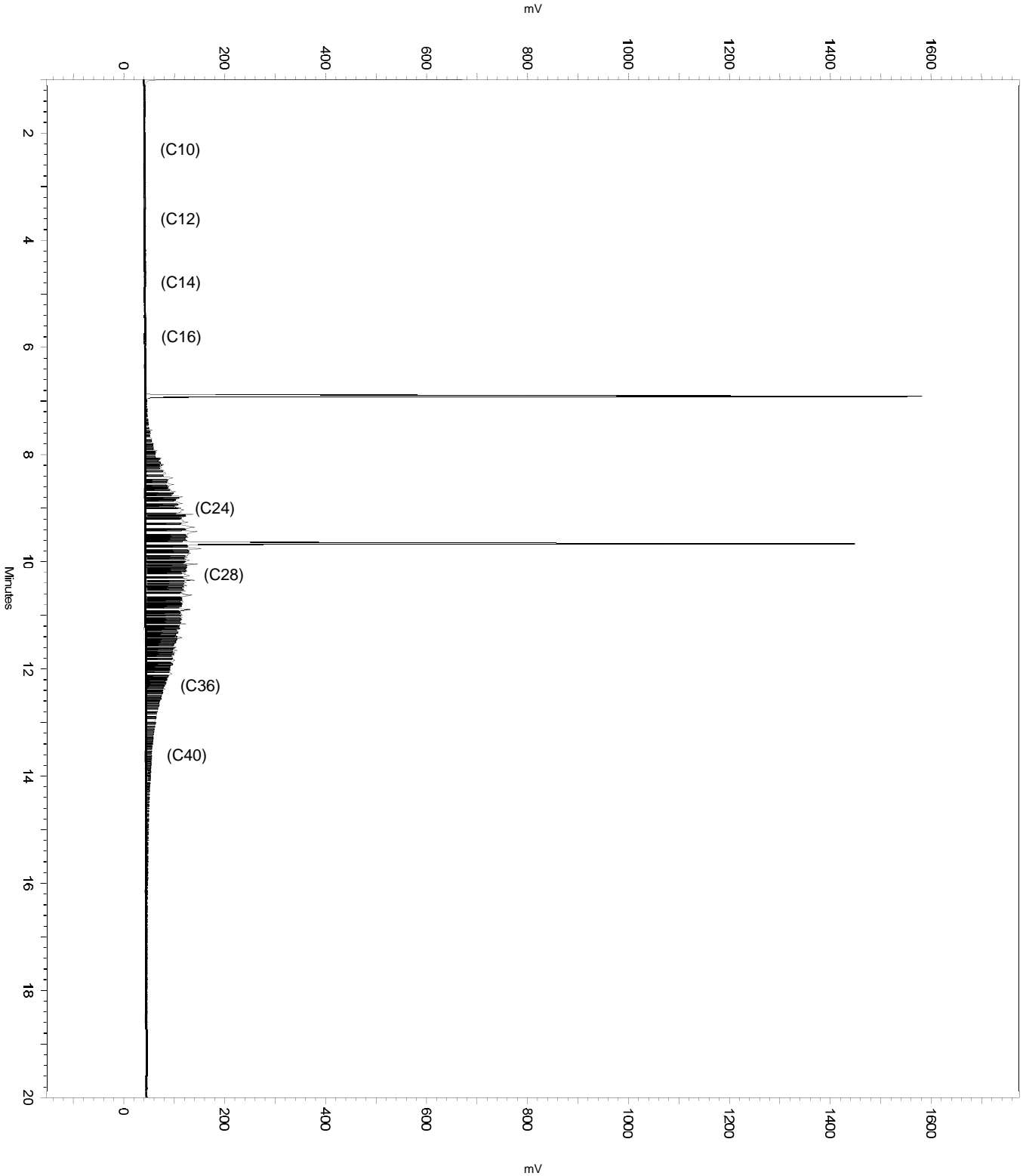
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b034

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.862	7.011	0
No	Split Peak	6.971	0	0
No	Manual Peak	9.616	9.94	0
No	Split Peak	9.701	0	0

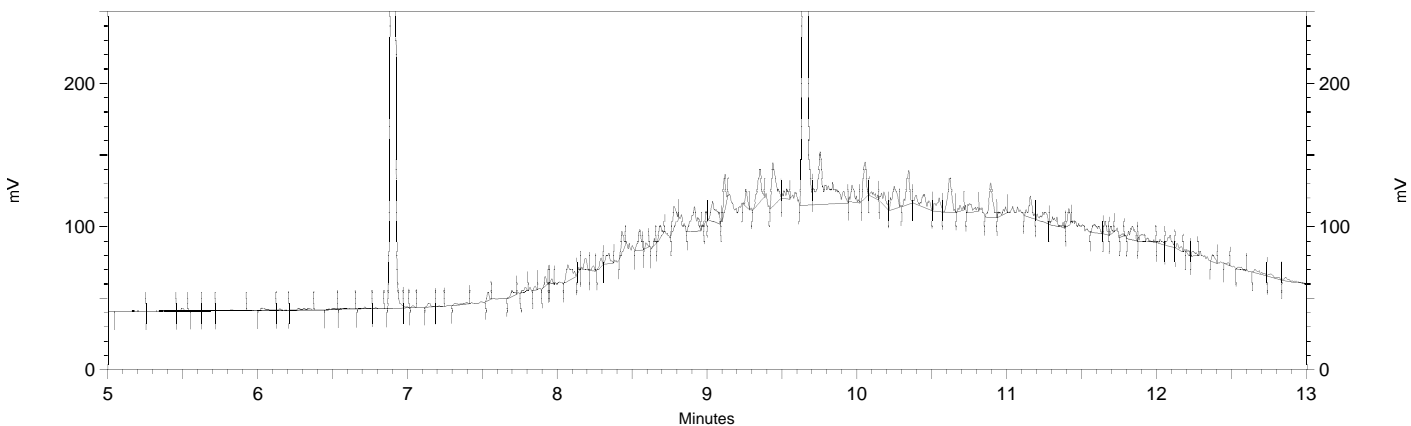
Sample Name: icv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b034
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_095B.met
Run Date: 4/6/2019 2:03:52 AM
Analysis Date: 4/8/2019 8:30:47 AM
Instrument: GC14B Vial: 34 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: icv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b034
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095B.met
 Run Date: 4/6/2019 2:03:52 AM
 Analysis Date: 4/8/2019 8:30:01 AM
 Instrument: GC14B Vial: 34 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.912	2255889	52.672
Hexacosane	9.665	1988913	54.011



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

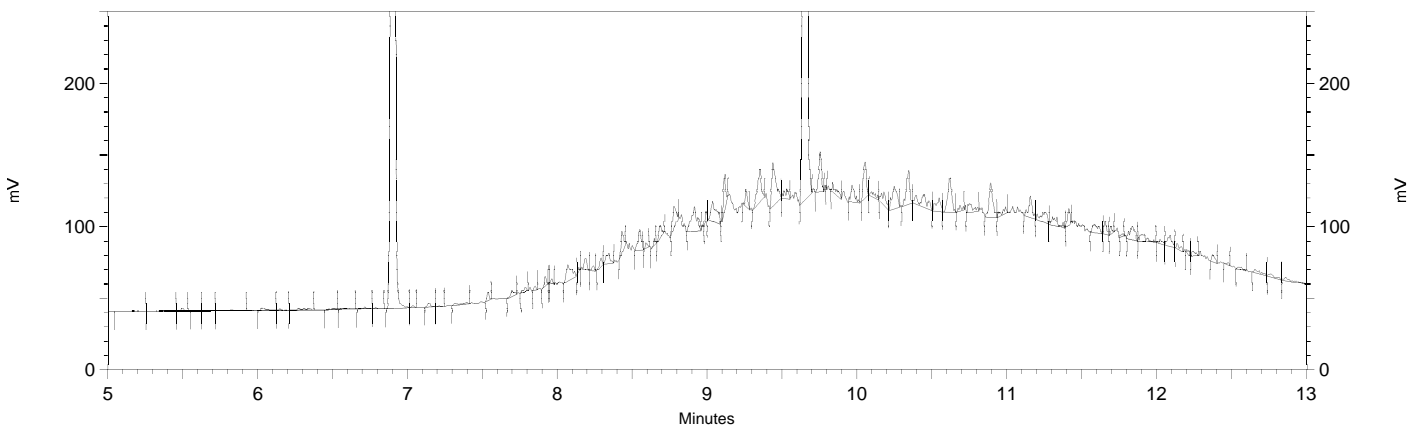
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b034

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.862	7.011	0
Yes	Split Peak	6.971	0	0
Yes	Manual Peak	9.616	9.94	0
Yes	Split Peak	9.701	0	0

Sample Name: icv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b034
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\095.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_095B.met
 Run Date: 4/6/2019 2:03:52 AM
 Analysis Date: 4/8/2019 8:29:33 AM
 Instrument: GC14B Vial: 34 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.912	2257562	52.711
Hexacosane	9.665	1967796	53.438



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0   0.2
Yes Threshold            0       0  100
Yes Integration Off      0       2    0
Yes Valley to Valley     0      20    0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\095b034
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

ENTHALPY INITIAL CALIBRATION FOR 309066 GCSV Water: EPA 8015B

Inst : GC14B
 Calnum : 229163216001
 Units : mg/L

Name : HEX OPT_113
 Date : 25-APR-2019 03:05
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	113_087	229163216087	HEXOTP_2.5	25-APR-2019 03:05	S39678 (2X)
L2	113_088	229163216088	HEXOTP_5	25-APR-2019 03:33	S39678
L3	113_089	229163216089	HEXOTP_10	25-APR-2019 04:00	S39679
L4	113_090	229163216090	HEXOTP_25	25-APR-2019 04:27	S39680
L5	113_091	229163216091	HEXOTP_50	25-APR-2019 04:55	S39681
L6	113_092	229163216092	HEXOTP_100	25-APR-2019 05:22	S39682

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	B	48652	50557	49552	50011	48446	50045	AVRG		2.02E-5		49544	2	0.995	20	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	B	2.5000	-2	5.0000	2	10.000	0	25.000	1	50.000	-2	100.00	1

TKY 04/25/19 : Corrected automatically drawn baseline in all levels.

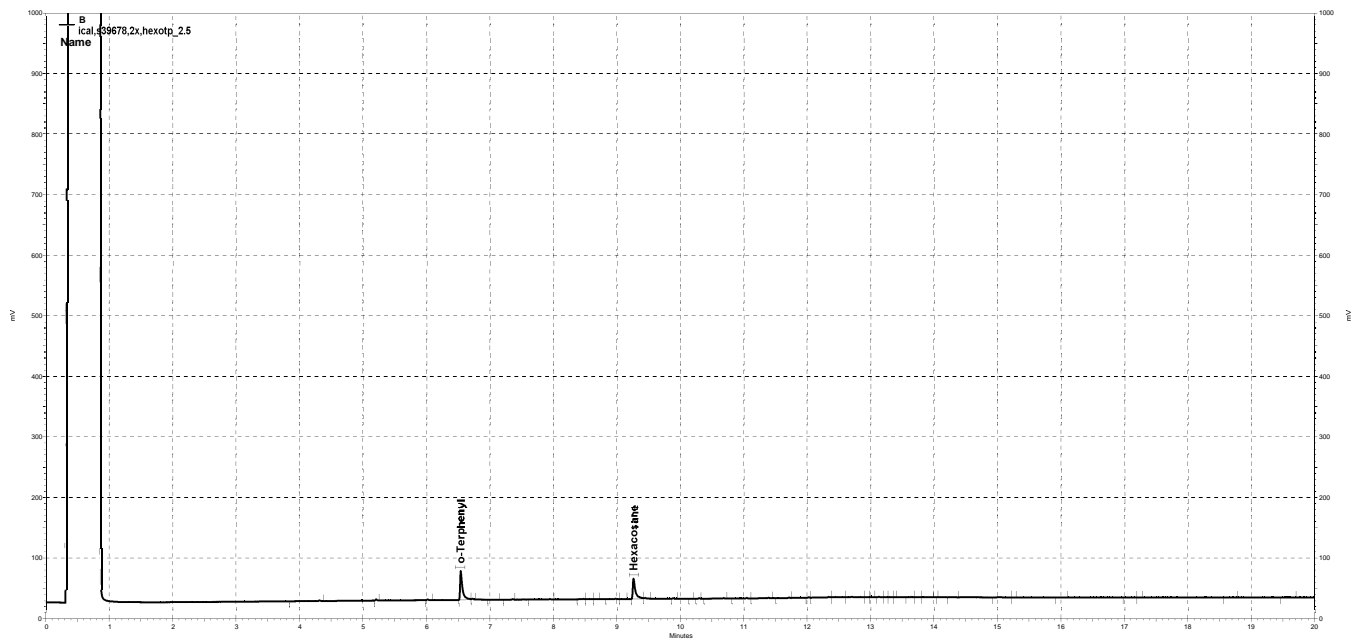
Analyst: TKY

Date: 04/25/19

Reviewer: EAH

Date: 04/25/19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

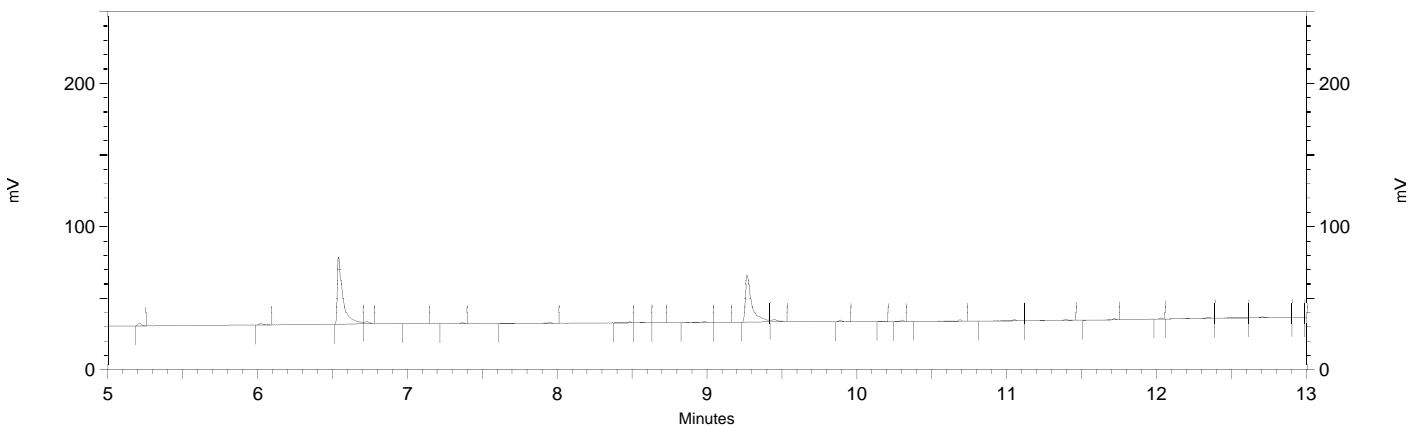


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b087, B

Sample Name: ical,s39678,2x,hexotp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b087
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 3:05:29 AM
 Analysis Date: 4/25/2019 7:45:11 AM
 Instrument: GC14B Vial: 87 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.542	121630	2.500 CAL
Hexacosane	9.265	96572	2.500 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

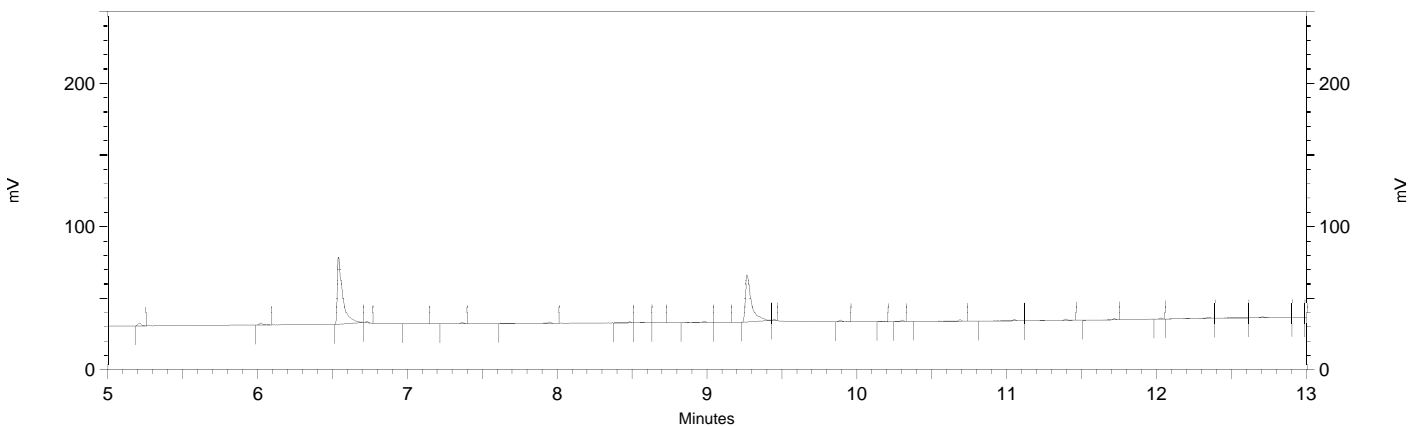
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b087

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.511	6.779	0
Yes	Split Peak	6.705	0	0
Yes	Manual Peak	9.23	9.533	0
Yes	Split Peak	9.42	0	0

Sample Name: ical,s39678,2x,hexotp_2.5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b087
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 3:05:29 AM
 Analysis Date: 4/25/2019 7:40:33 AM
 Instrument: GC14B Vial: 87 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.542	117171	2.500 CAL
Hexacosane	9.265	91675	2.500 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

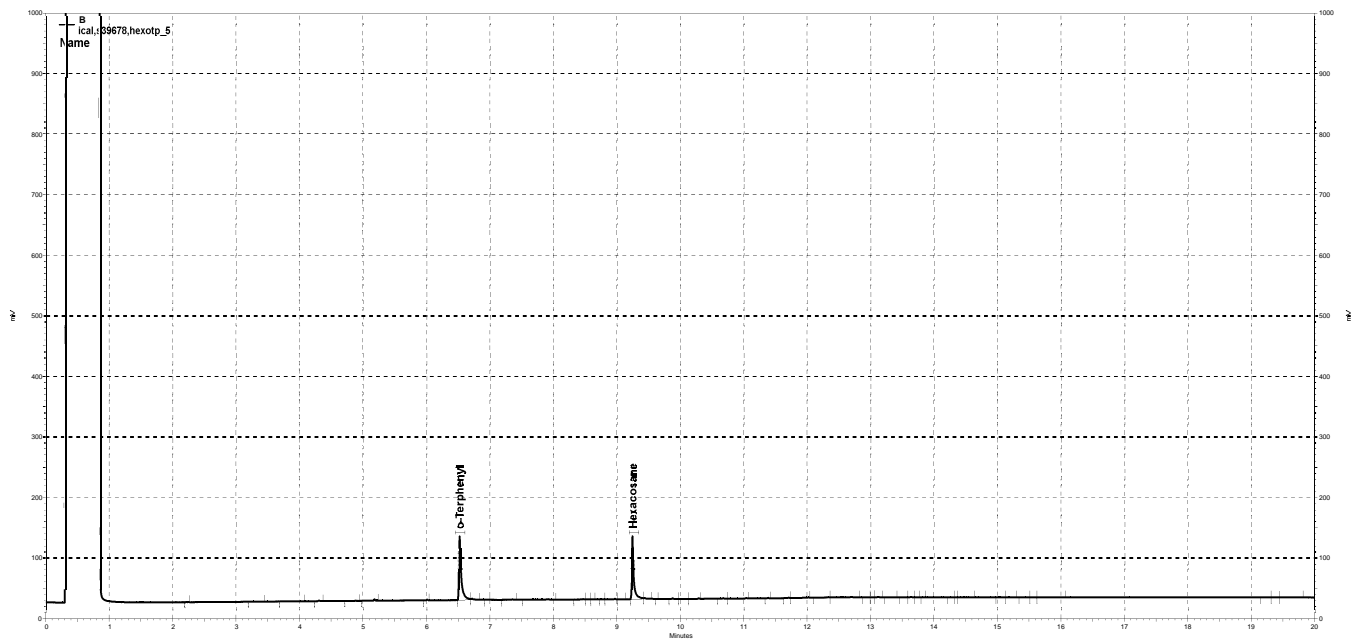
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b087

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

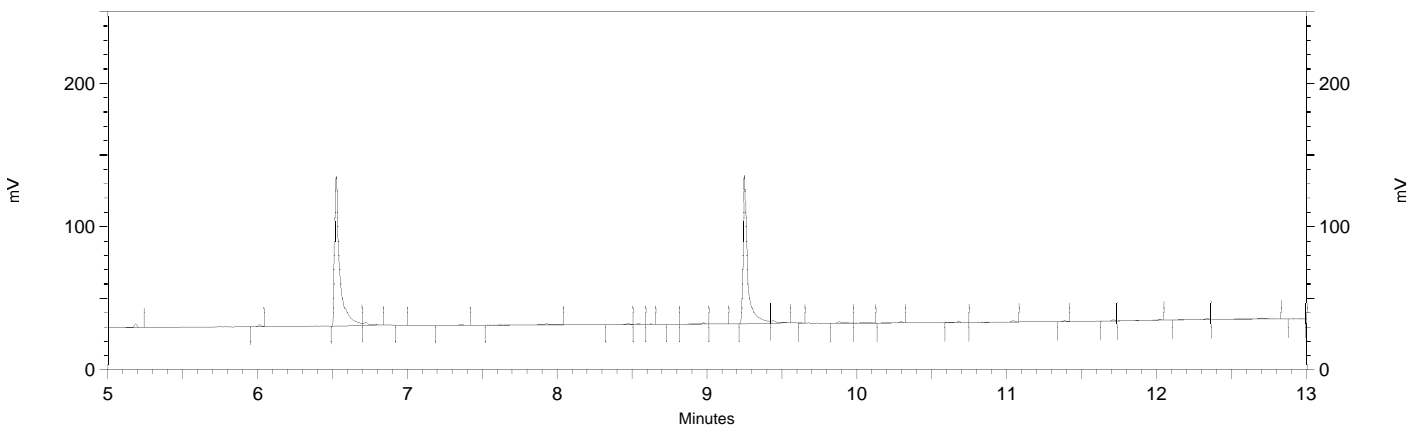


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b088, B

Sample Name: ical,s39678,hexotp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b088
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 3:33:10 AM
 Analysis Date: 4/25/2019 7:45:16 AM
 Instrument: GC14B Vial: 88 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.525	252784	5.000 CAL
Hexacosane	9.248	207679	5.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off     0          2     0
Yes Valley to Valley    0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

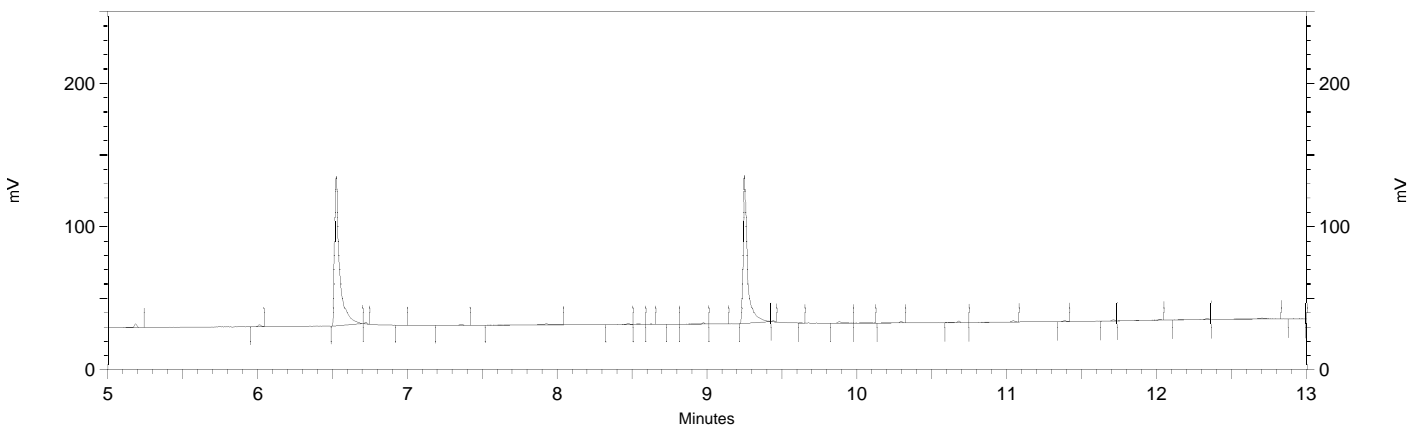
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b088
Enabled Event Type      Start      Stop
                        (Minutes) (Minutes) Value
-----
Yes Manual Peak         6.49      6.839   0
Yes Split Peak          6.7       0       0
Yes Manual Peak         9.212     9.553   0
Yes Split Peak          9.424     0       0
  
```

Sample Name: ical,s39678,hexotp_5
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b088
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 3:33:10 AM
 Analysis Date: 4/25/2019 7:41:07 AM
 Instrument: GC14B Vial: 88 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.525	245122	5.000 CAL
Hexacosane	9.248	201146	5.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

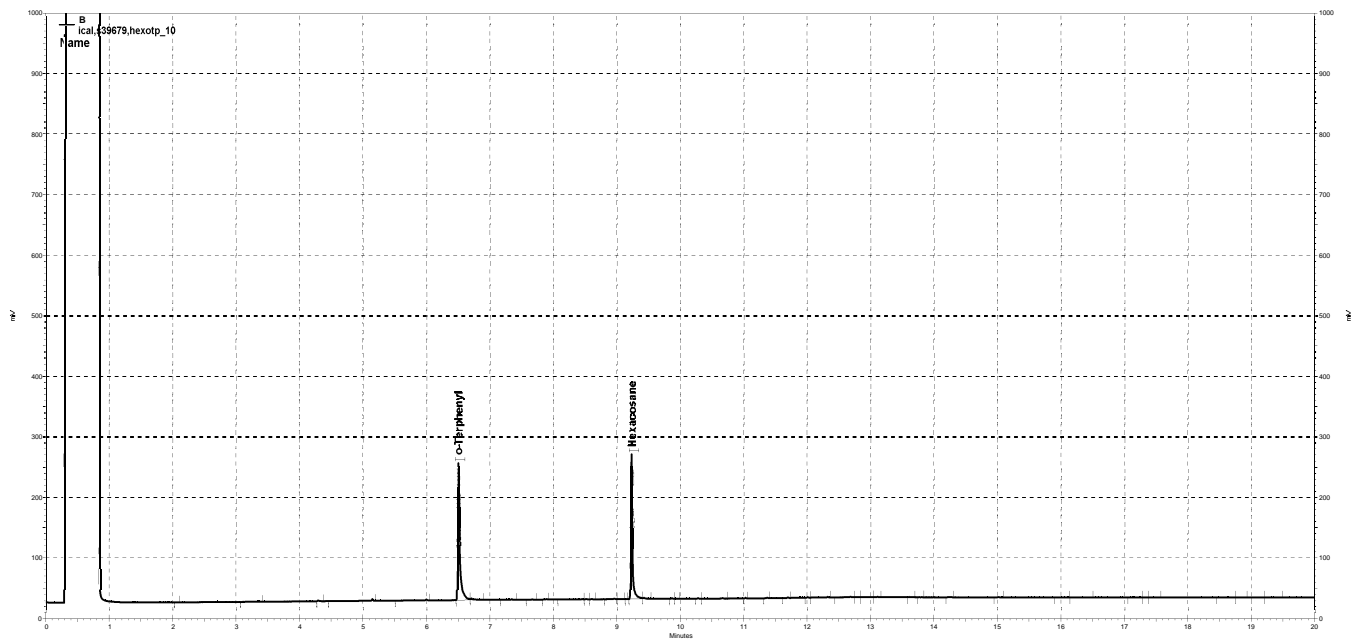
```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0          20         0
Yes Shoulder Sensitivity 0          20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b088
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

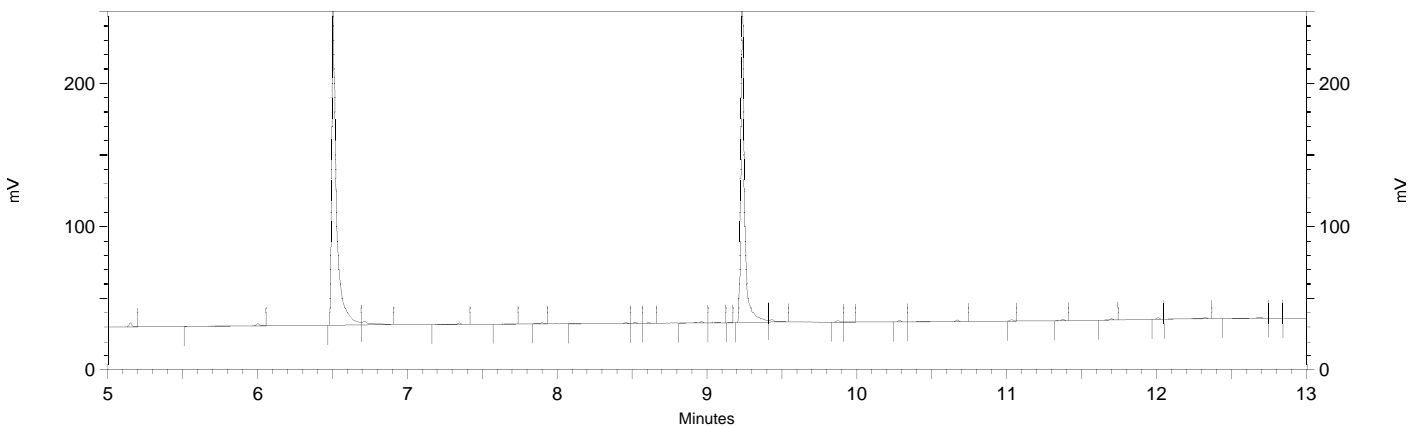


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b089, B

Sample Name: ical,s39679,hexotp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b089
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 4:00:27 AM
 Analysis Date: 4/25/2019 7:45:21 AM
 Instrument: GC14B Vial: 89 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.503	495520	10.000 CAL
Hexacosane	9.235	408125	10.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

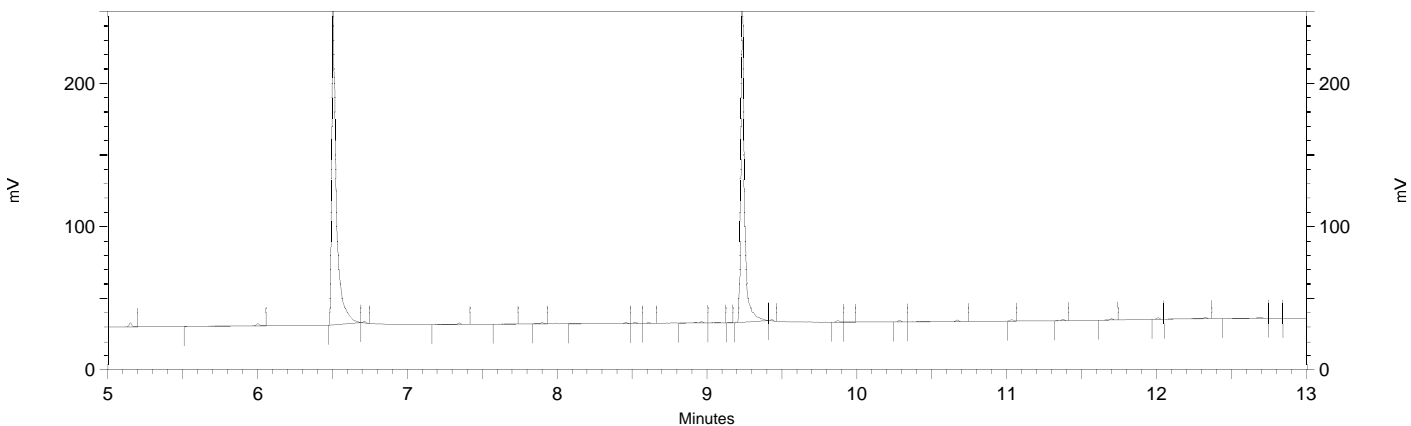
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b089

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.467	6.907	0
Yes	Split Peak	6.69	0	0
Yes	Manual Peak	9.191	9.542	0
Yes	Split Peak	9.411	0	0

Sample Name: ical,s39679,hexotp_10
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b089
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 4:00:27 AM
 Analysis Date: 4/25/2019 7:41:42 AM
 Instrument: GC14B Vial: 89 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.503	485243	10.000 CAL
Hexacosane	9.235	401454	10.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

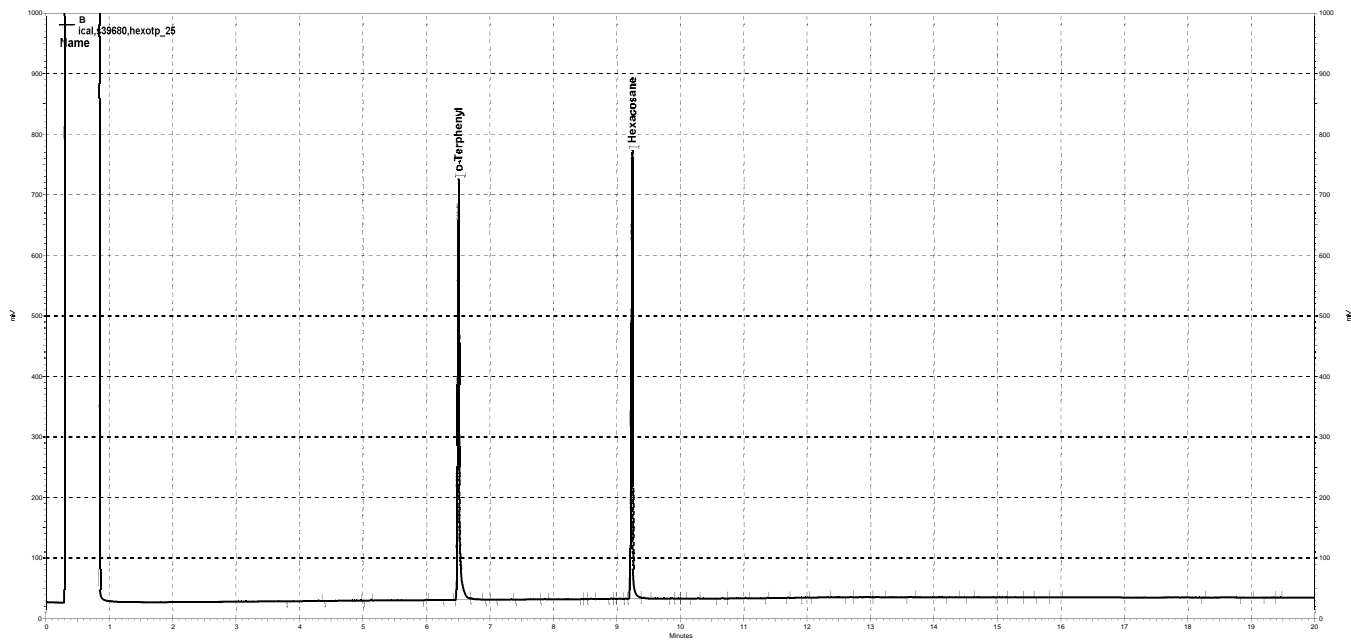
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b089
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

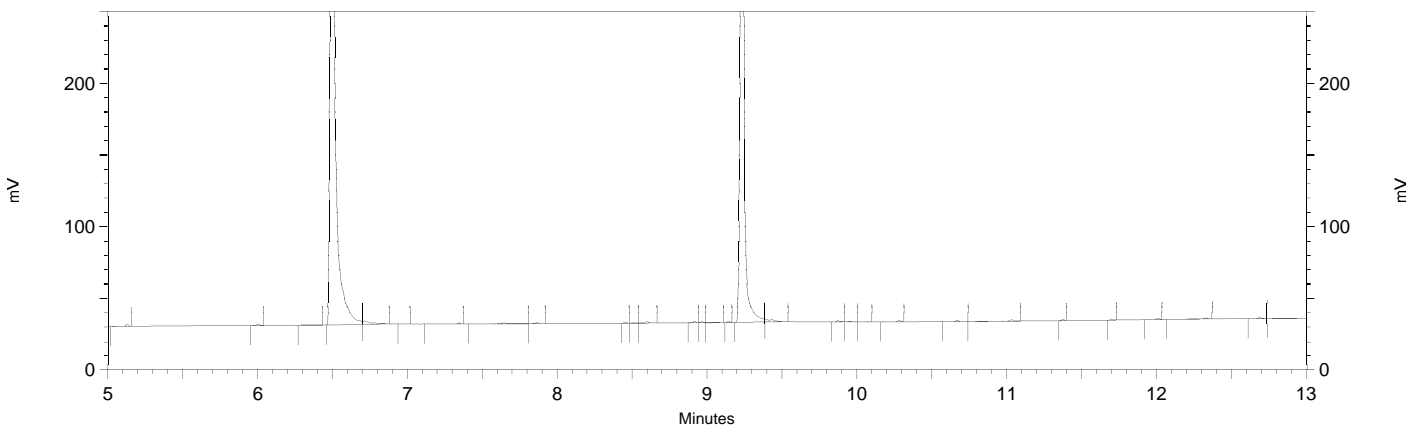


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b090, B

Sample Name: ical,s39680,hexotp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b090
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 4:27:41 AM
 Analysis Date: 4/25/2019 7:45:26 AM
 Instrument: GC14B Vial: 90 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.498	1250272	25.000 CAL
Hexacosane	9.238	1042687	25.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

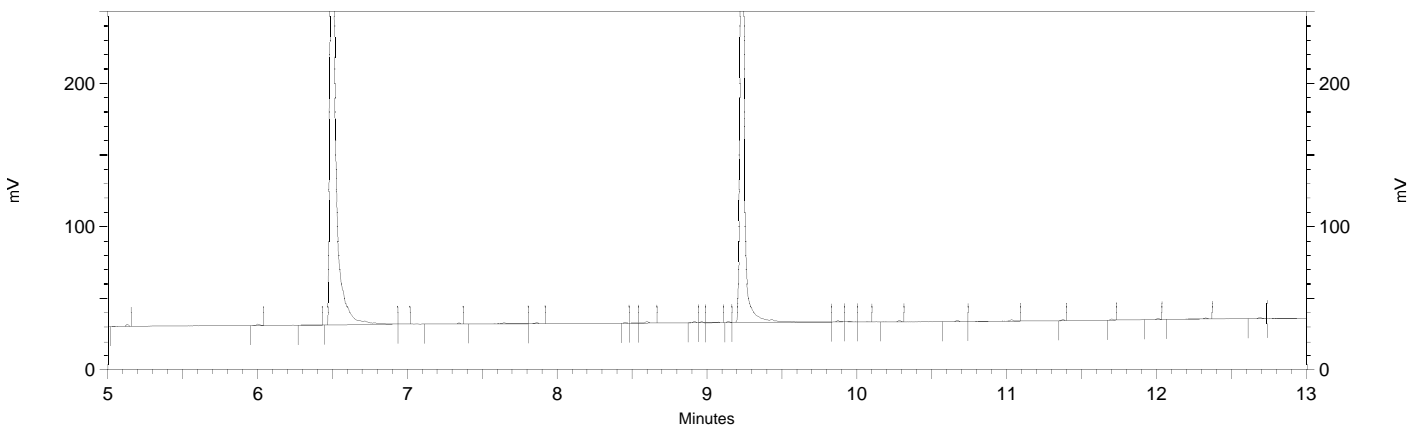
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b090

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.458	6.879	0
Yes	Split Peak	6.7	0	0
Yes	Manual Peak	9.179	9.539	0
Yes	Split Peak	9.385	0	0

Sample Name: ical,s39680,hexotp_25
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b090
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 4:27:41 AM
 Analysis Date: 4/25/2019 7:42:20 AM
 Instrument: GC14B Vial: 90 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.498	1261749	25.000 CAL
Hexacosane	9.238	1057988	25.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

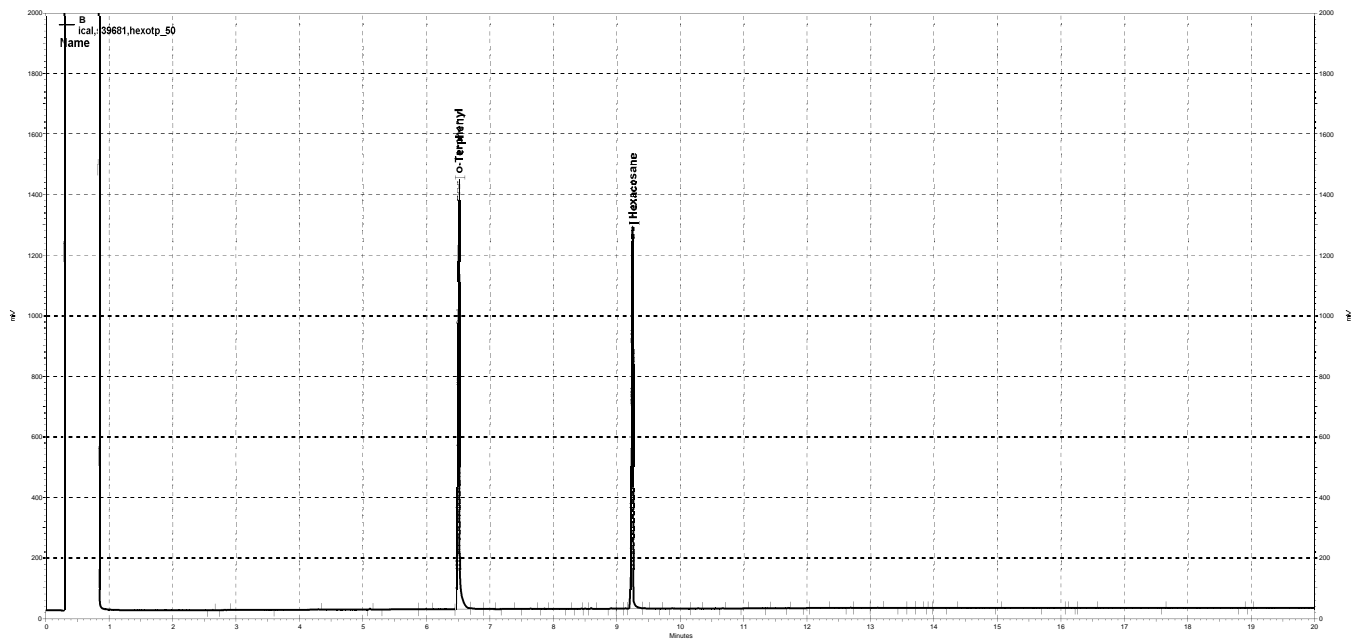
```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0          20         0
Yes Shoulder Sensitivity 0          20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b090
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

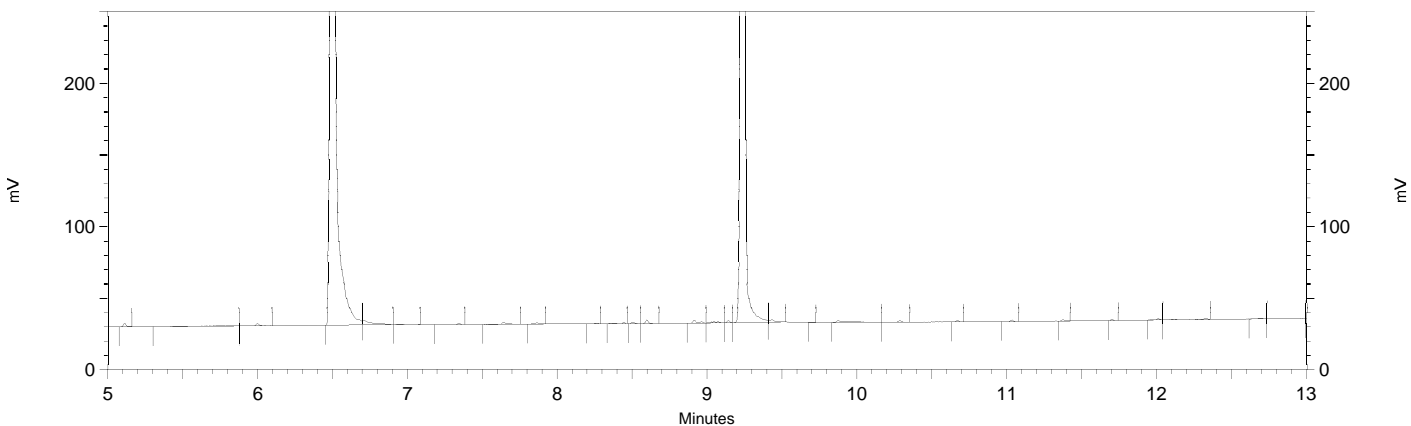



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b091, B

Sample Name: ical,s39681,hexotp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b091
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 4:55:17 AM
 Analysis Date: 4/25/2019 7:45:31 AM
 Instrument: GC14B Vial: 91 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.508	2422297	50.000 CAL
Hexacosane	9.250	2034180	50.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

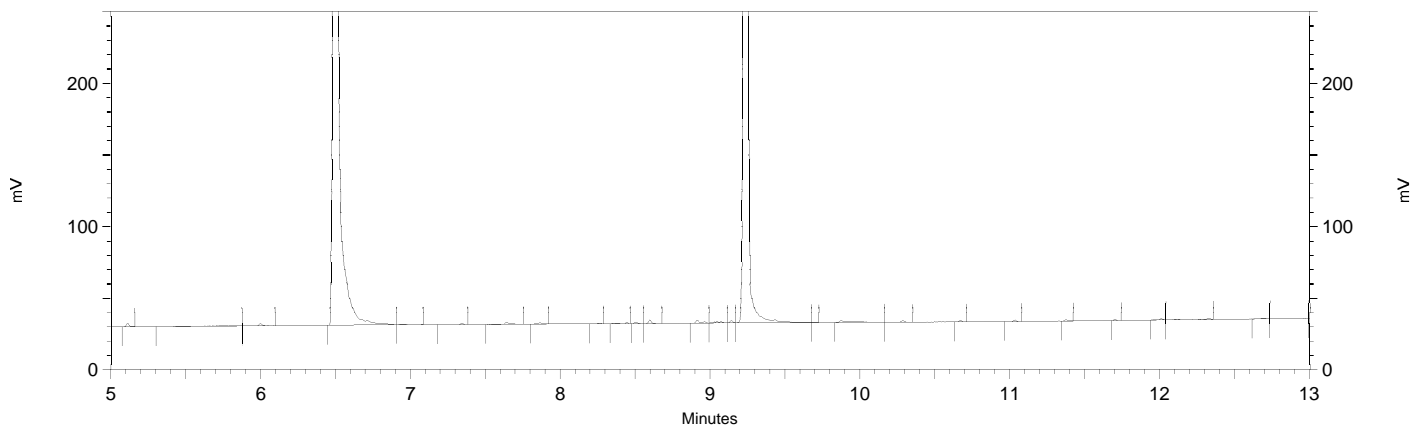
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b091

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.45	6.903	0
Yes	Split Peak	6.698	0	0
Yes	Manual Peak	9.169	9.522	0
Yes	Split Peak	9.407	0	0

Sample Name: ical,s39681,hexotp_50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b091
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 4:55:17 AM
 Analysis Date: 4/25/2019 7:42:54 AM
 Instrument: GC14B Vial: 91 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
 TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.508	2434985	50.000 CAL
Hexacosane	9.250	2042909	50.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

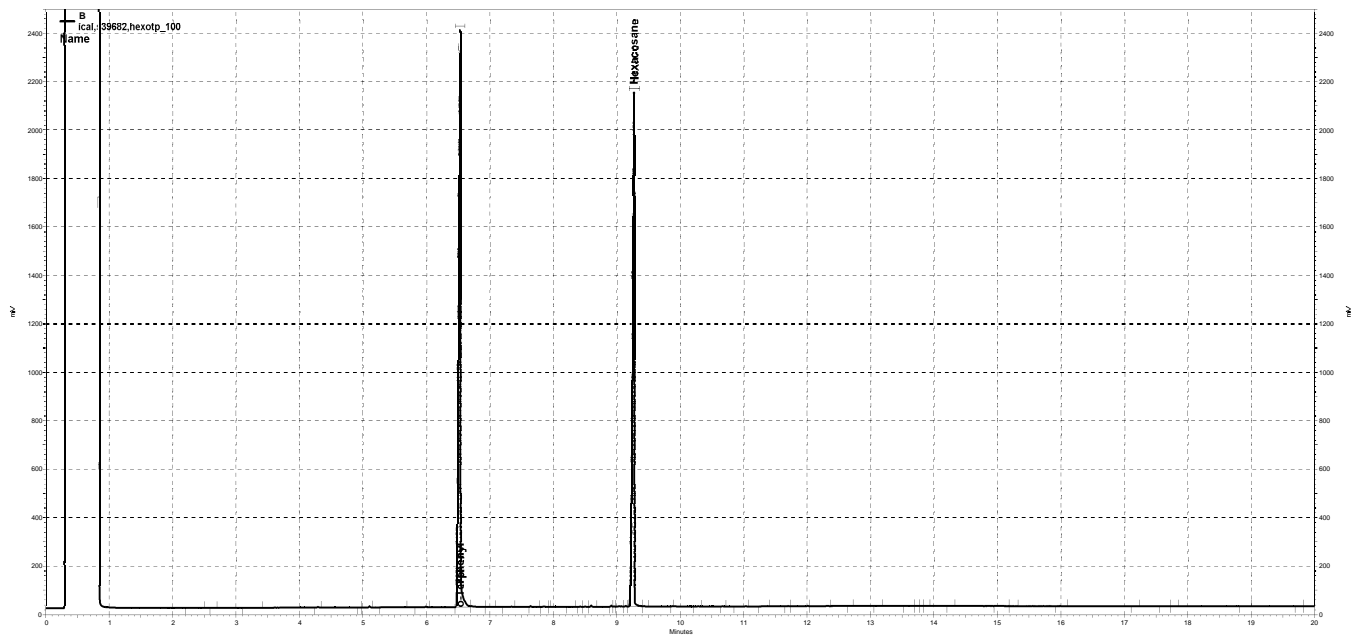
```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity 0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b091
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

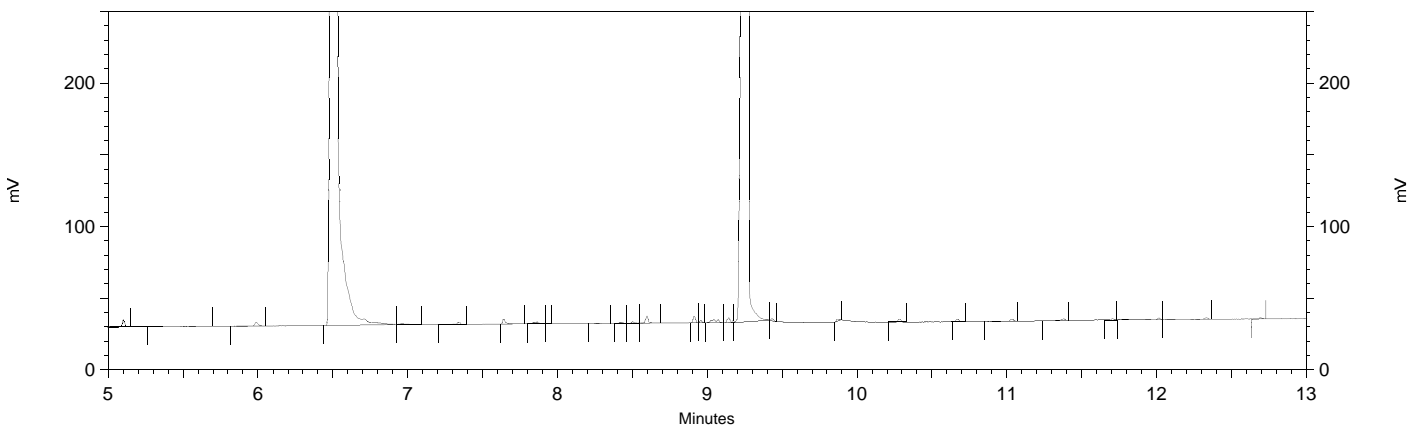


— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b092, B

Sample Name: ical,s39682,hexotp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b092
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113.met
 Run Date: 4/25/2019 5:22:44 AM
 Analysis Date: 4/25/2019 5:42:54 AM
 Instrument: GC14B Vial: 92 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.528	5023194	117.285
Hexacosane	9.272	4246320	115.313



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

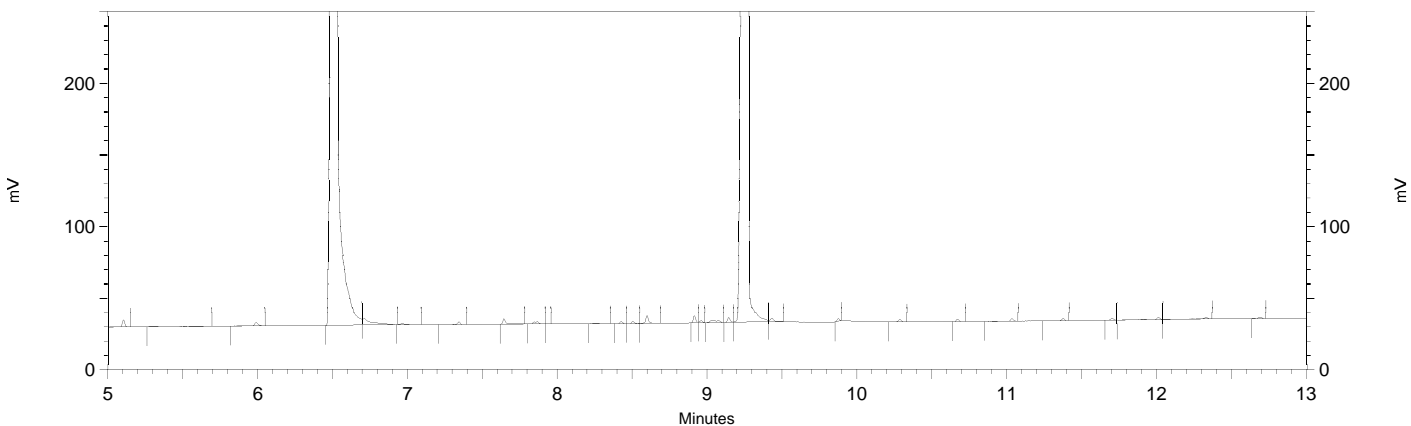
=====
 Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\113b092_C7CB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: ical,s39682,hexotp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b092
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 5:22:44 AM
 Analysis Date: 4/25/2019 7:45:36 AM
 Instrument: GC14B Vial: 92 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.528	5004461	100.000 CAL
Hexacosane	9.272	4253034	100.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

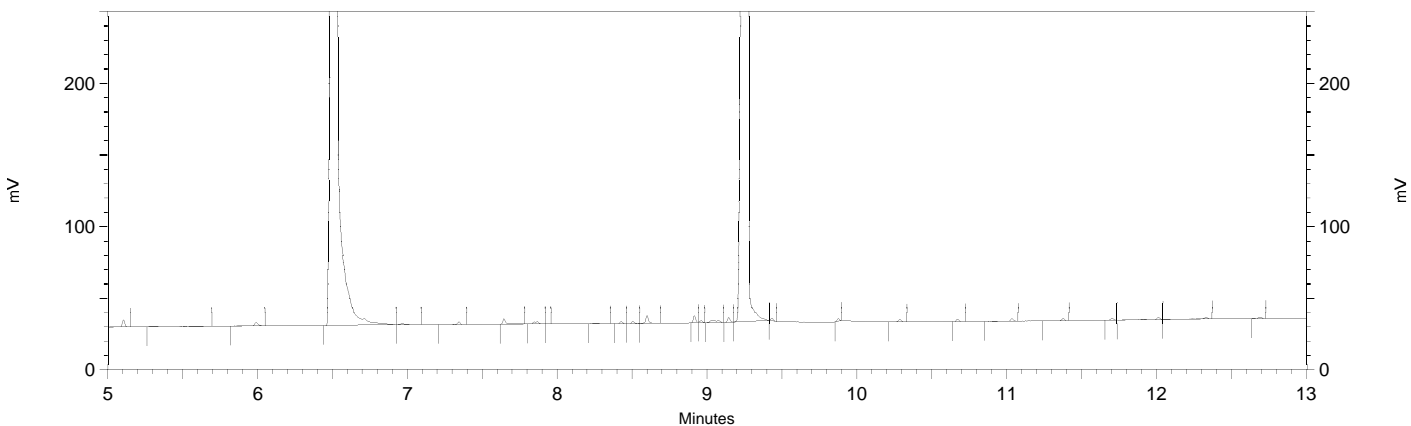
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b092

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.45	6.933	0
Yes	Split Peak	6.697	0	0
Yes	Manual Peak	9.174	9.506	0
Yes	Split Peak	9.412	0	0

Sample Name: ical,s39682,hexotp_100
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b092
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\113.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/25/2019 5:22:44 AM
 Analysis Date: 4/25/2019 7:43:40 AM
 Instrument: GC14B Vial: 92 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.528	5023194	100.000 CAL
Hexacosane	9.272	4246320	100.000 CAL



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\113b092
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

Carbon Marker Run

Inst : GC14B
 Seqnum : 229167587003
 Standards: S40185

Run Name : C10-C40
 File : 116_003

IDF : 1.0
 Time : 26-APR-2019 10:12

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	1.872	+/- 4.5s (0.075m)	1.797 - 1.947
C12 - n-Dodecane	B	3.185	+/- 4.5s (0.075m)	3.110 - 3.260
C14 - n-Tetradecane	B	4.345	+/- 4.5s (0.075m)	4.270 - 4.420
C16 - n-Hexadecane	B	5.353	+/- 4.5s (0.075m)	5.278 - 5.428
C18 - n-Octadecane	B	6.252	+/- 4.5s (0.075m)	6.177 - 6.327
C20 - n-Eicosane	B	7.07	+/- 4.5s (0.075m)	6.995 - 7.145
C22 - n-Docosane	B	7.818	+/- 4.5s (0.075m)	7.743 - 7.893
C24 - n-Tetracosane	B	8.507	+/- 4.5s (0.075m)	8.432 - 8.582
C28 - n-Octacosane	B	9.74	+/- 4.5s (0.075m)	9.665 - 9.815
C30 - n-Triacontane	B	10.293	+/- 4.5s (0.075m)	10.218 - 10.368
C32 - n-Dotriacontane	B	10.813	+/- 4.5s (0.075m)	10.738 - 10.888
C34 - n-Tetratriacontane	B	11.302	+/- 4.5s (0.075m)	11.227 - 11.377
C36 - n-HexatriacontaneC36	B	11.765	+/- 4.5s (0.075m)	11.690 - 11.840
C40 - n-Tetracontane	B	12.735	+/- 4.5s (0.075m)	12.660 - 12.810

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	1.797	5.428
Diesel C10-C22	B	1.797	7.893
Diesel C10-C24	B	1.797	8.582
Diesel C10-C28	B	1.797	9.815
Diesel C12-C24	B	3.110	8.582
Diesel C12-C28	B	3.110	9.815
Diesel C16-C24	B	5.278	8.582
Motor Oil C22-C32	B	7.743	10.888
Motor Oil C24-C36	B	8.432	11.840
Motor Oil C28-C40	B	9.665	12.810
Bunker C C10-C40	B	1.797	12.810
Bunker C C12-C40	B	3.110	12.810
Diesel C10-C14	B	1.797	4.420
Diesel C14-C24	B	4.270	8.582

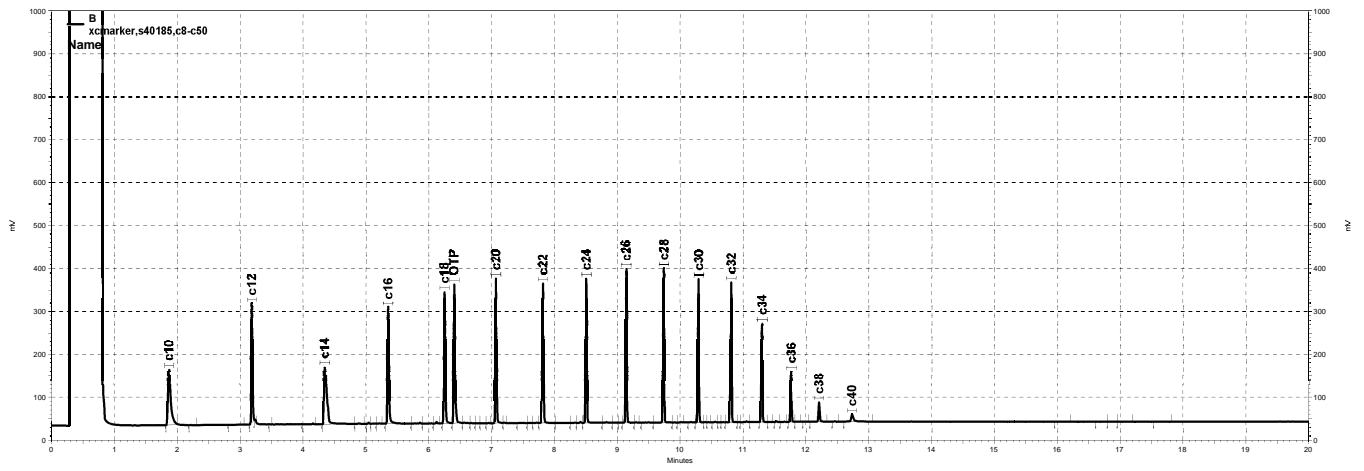
EZChrom method retention times successfully validated.

Analyst: CRC

Date: 04/26/19

Reviewer: EAH

Date: 04/26/19



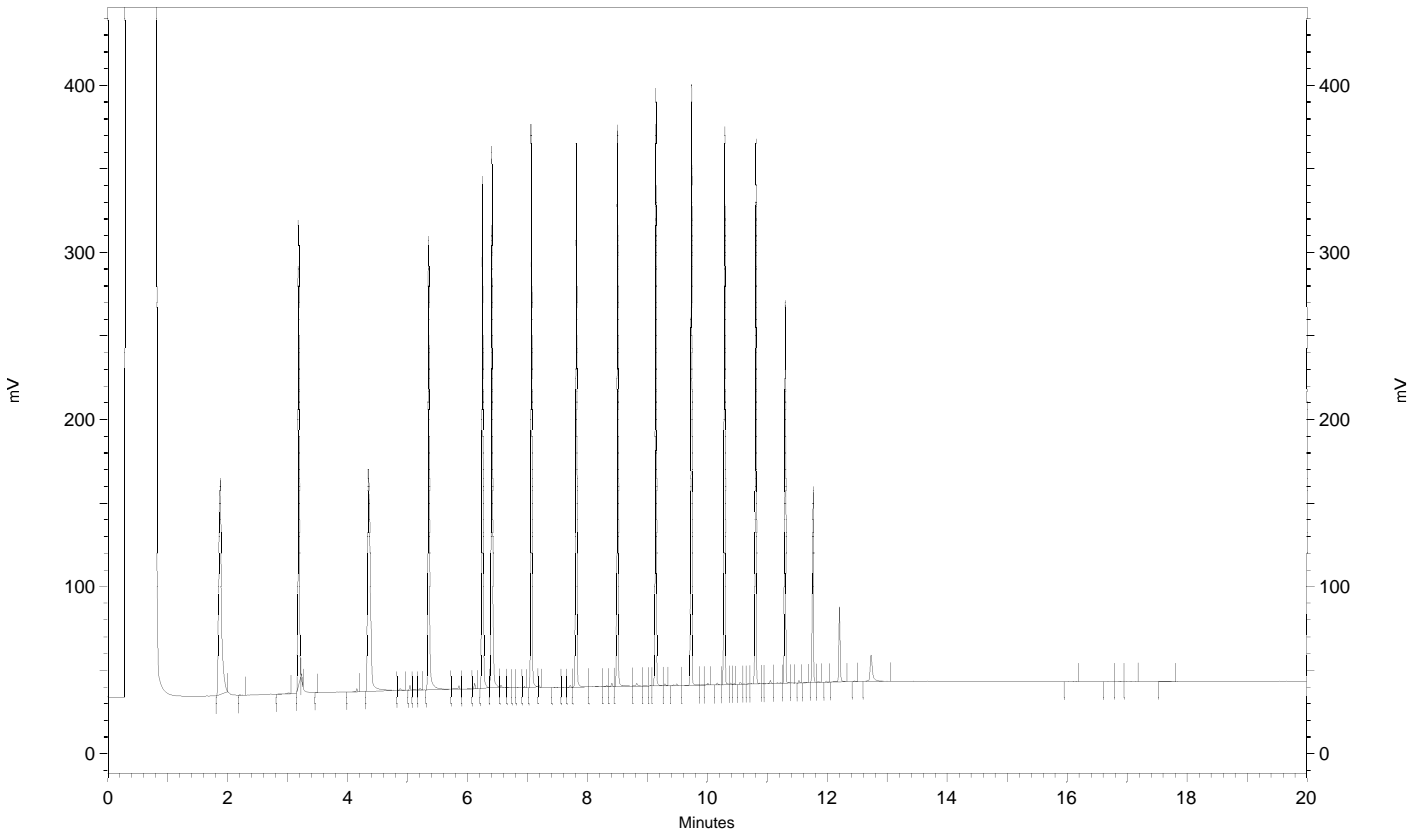
\\kraken\gdrive\lezchrom\Projects\GC14B\Data\2019\116b003, B

Sample Name: xcmarker,s40185,c8-c50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b003
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\cm_116.met
Run Date: 4/26/2019 10:12:09 AM
Analysis Date: 4/26/2019 12:33:31 PM
Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

GC14B

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	1.872	396211	0.000
c12	3.185	369894	0.000
c14	4.345	425502	0.000
c16	5.353	433547	0.000
c18	6.252	431401	0.000
OTP	6.407	480675	0.000
c20	7.070	435422	0.000
c22	7.818	442795	0.000
c24	8.507	434998	0.000
c26	9.145	426726	0.000
c28	9.740	429190	0.000
c30	10.293	412204	0.000
c32	10.813	385009	0.000
c34	11.302	284549	0.000
c36	11.765	144228	0.000
c38	12.210	65539	0.000
c40	12.735	45738	0.000



Sample Name: **xcmarker,s40185,c8-c50**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b003
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_113B.met
 Run Date: 4/26/2019 10:12:09 AM
 Analysis Date: 4/26/2019 12:34:11 PM
 Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1361619	36.576
DSL:10-14	886535	63.067
DSL:10-22	3217390	86.043
DSL:10-24	3662727	95.265
DSL:10-28	4533358	115.690
DSL:12-24	3257731	96.855
DSL:12-28	4128362	120.105
DSL:14-24	2776192	107.341
DSL:16-24	2301108	129.431
MO:22-32	2132183	74.916
MO:24-36	2144496	71.307
MO:28-40	1412930	70.286
BUNKC:10-40	5945470	259.401
BUNKC:12-40	5540474	250.246

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

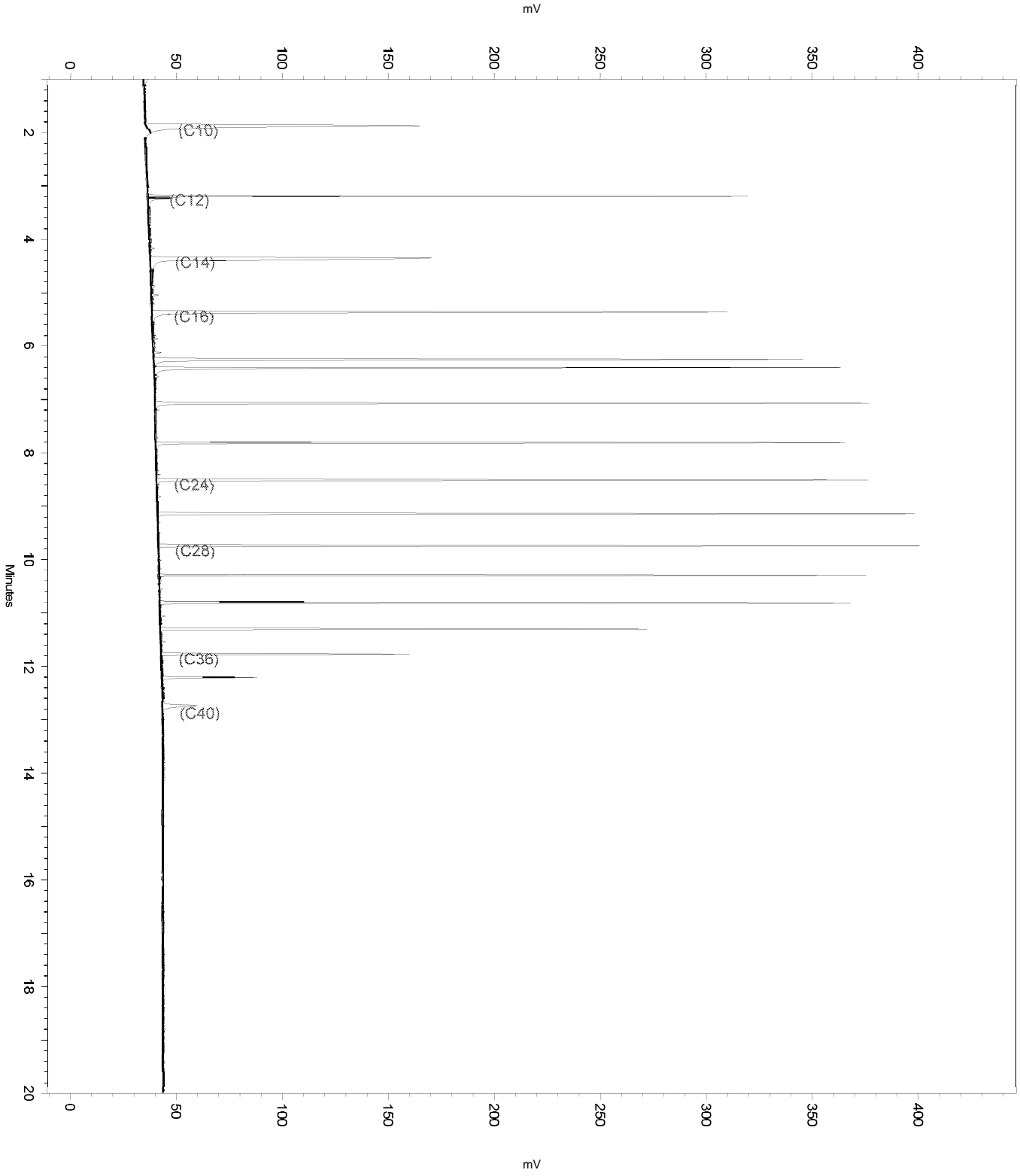
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	1.818	2.003	0

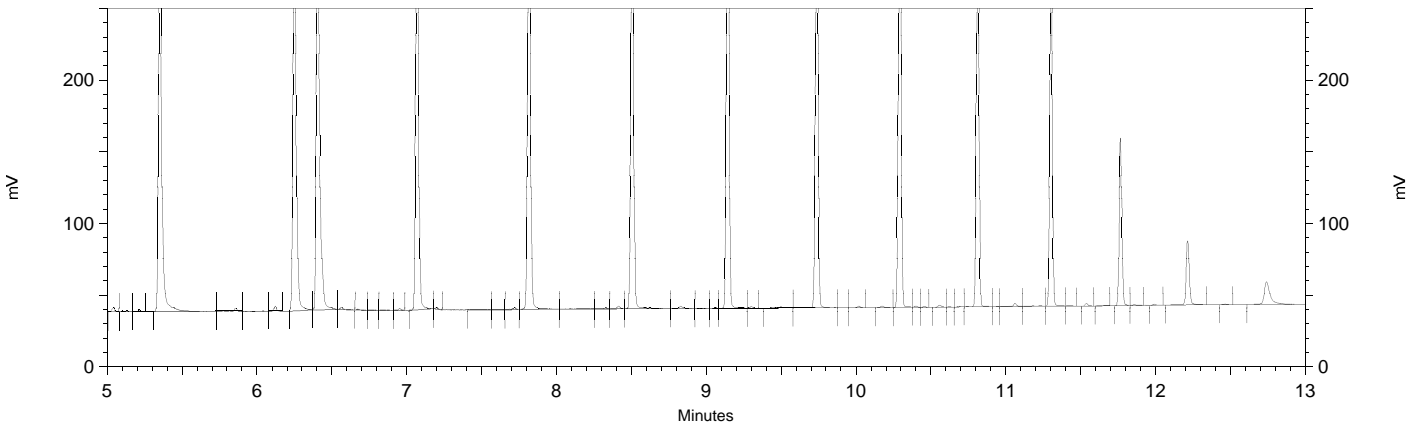
Sample Name: xcmarker,s40185,c8-c50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b003
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_113B.met
Run Date: 4/26/2019 10:12:09 AM
Analysis Date: 4/26/2019 12:34:11 PM
Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: xcmarker,s40185,c8-c50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b003
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_113B.met
 Run Date: 4/26/2019 10:12:09 AM
 Analysis Date: 4/26/2019 10:32:18 AM
 Instrument: GC14B Vial: 3 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.563	2286	0.046
Hexacosane	9.297	1604	0.039



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\116b003_1961.tmp
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

Carbon Marker Run

Inst : GC14B
 Seqnum : 229174702003
 Standards: S40185

Run Name : C10-C40
 File : 121_003

IDF : 1.0
 Time : 01-MAY-2019 08:38

Analyte	Channel	RT (Minutes)	Window Size	RT Range (Minutes)
C10 - n-Decane	B	1.792	+/- 4.5s (0.075m)	1.717 - 1.867
C12 - n-Dodecane	B	3.108	+/- 4.5s (0.075m)	3.033 - 3.183
C14 - n-Tetradecane	B	4.255	+/- 4.5s (0.075m)	4.180 - 4.330
C16 - n-Hexadecane	B	5.267	+/- 4.5s (0.075m)	5.192 - 5.342
C18 - n-Octadecane	B	6.165	+/- 4.5s (0.075m)	6.090 - 6.240
C20 - n-Eicosane	B	6.982	+/- 4.5s (0.075m)	6.907 - 7.057
C22 - n-Docosane	B	7.727	+/- 4.5s (0.075m)	7.652 - 7.802
C24 - n-Tetracosane	B	8.415	+/- 4.5s (0.075m)	8.340 - 8.490
C28 - n-Octacosane	B	9.645	+/- 4.5s (0.075m)	9.570 - 9.720
C30 - n-Triacontane	B	10.195	+/- 4.5s (0.075m)	10.120 - 10.270
C32 - n-Dotriacontane	B	10.715	+/- 4.5s (0.075m)	10.640 - 10.790
C34 - n-Tetratriacontane	B	11.203	+/- 4.5s (0.075m)	11.128 - 11.278
C36 - n-HexatriacontaneC36	B	11.662	+/- 4.5s (0.075m)	11.587 - 11.737
C40 - n-Tetracontane	B	12.602	+/- 4.5s (0.075m)	12.527 - 12.677

Carbon Range	Channel	Range Start	Range Stop
JP-5 C10-C16	B	1.717	5.342
Diesel C10-C22	B	1.717	7.802
Diesel C10-C24	B	1.717	8.490
Diesel C10-C28	B	1.717	9.720
Diesel C12-C24	B	3.033	8.490
Diesel C12-C28	B	3.033	9.720
Diesel C16-C24	B	5.192	8.490
Motor Oil C22-C32	B	7.652	10.790
Motor Oil C24-C36	B	8.340	11.737
Motor Oil C28-C40	B	9.570	12.677
Bunker C C10-C40	B	1.717	12.677
Bunker C C12-C40	B	3.033	12.677
Diesel C10-C14	B	1.717	4.330
Diesel C14-C24	B	4.180	8.490

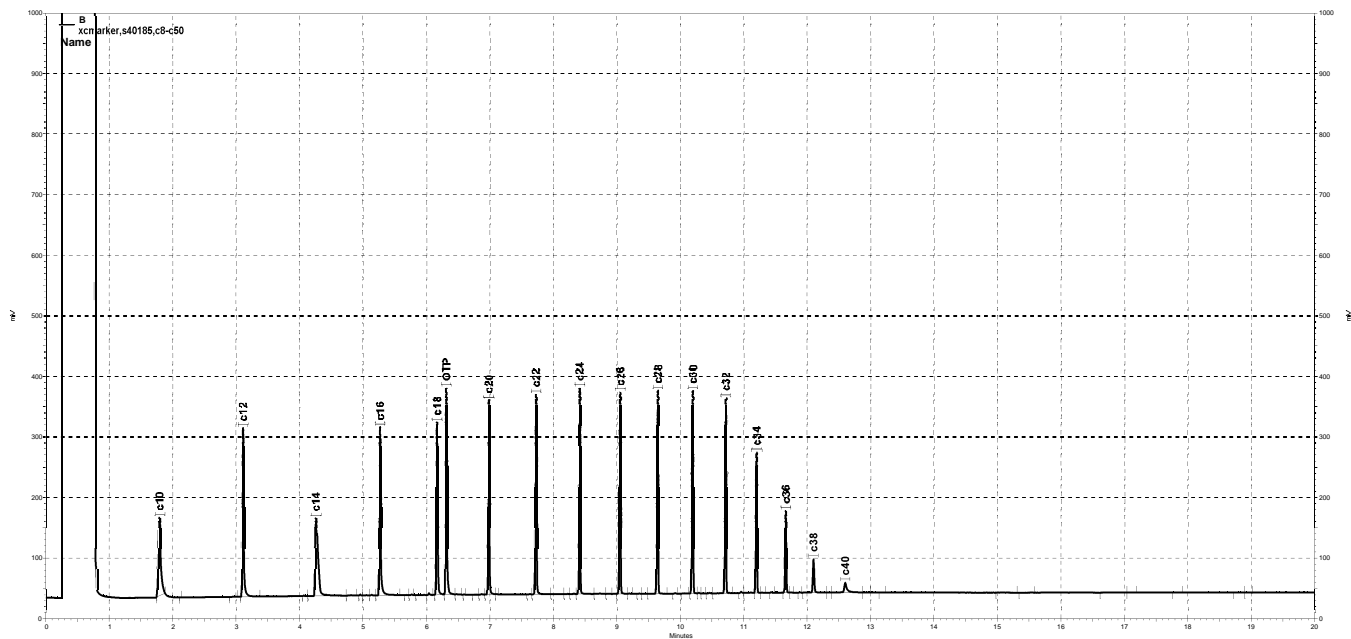
EZChrom method retention times successfully validated.

Analyst: TKY

Date: 05/01/19

Reviewer: EAH

Date: 05/01/19



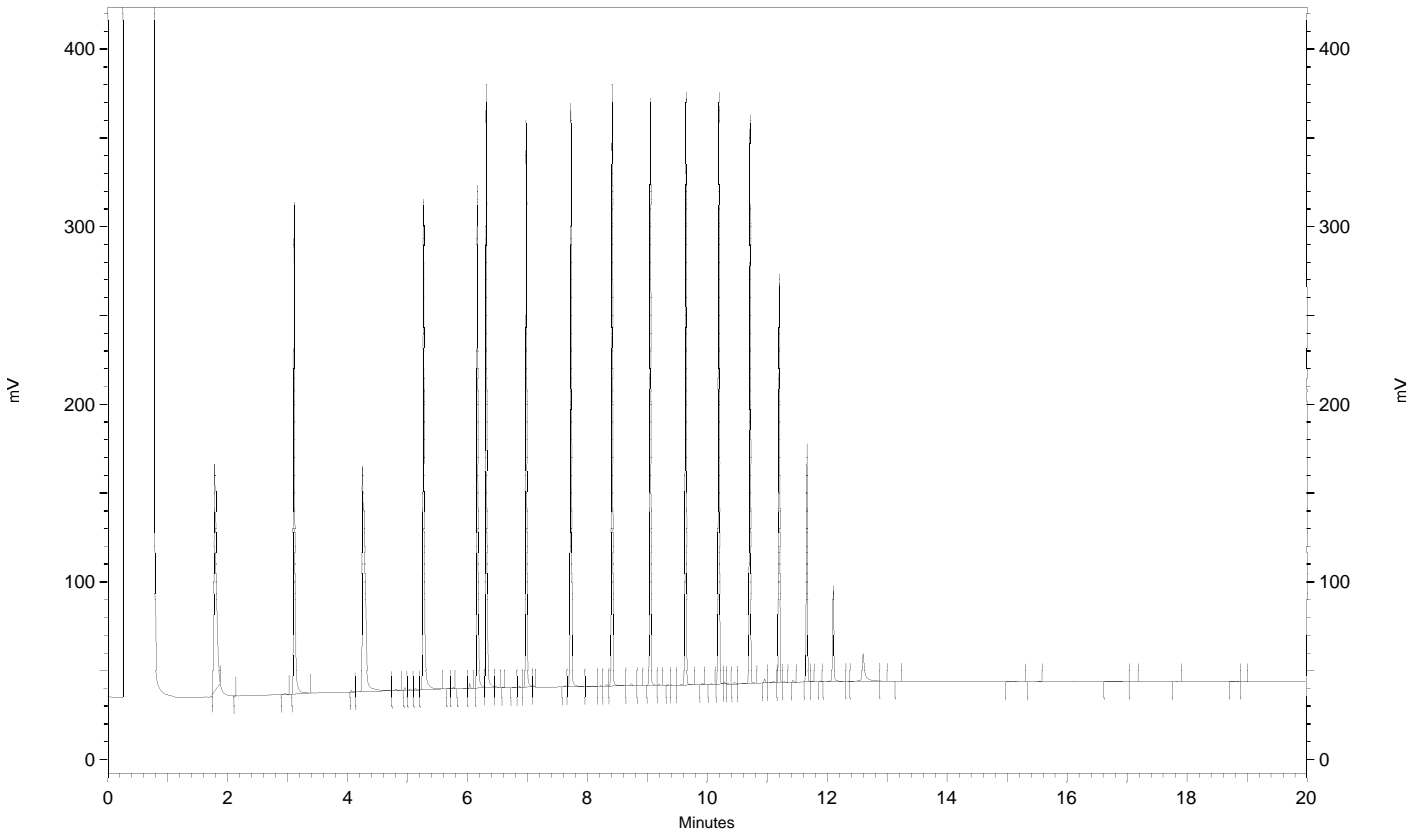
— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b003, B

Sample Name: xcmarker,s40185,c8-c50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b003
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\cm_121.met
Run Date: 5/1/2019 8:38:40 AM
Analysis Date: 5/1/2019 9:52:53 AM
Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

GC14B

TEH - FID Instrument Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	1.792	356516	0.000
c12	3.108	413801	0.000
c14	4.255	419937	0.000
c16	5.267	419425	0.000
c18	6.165	414512	0.000
OTP	6.313	459981	0.000
c20	6.982	415542	0.000
c22	7.727	421160	0.000
c24	8.415	414582	0.000
c26	9.052	413195	0.000
c28	9.645	422199	0.000
c30	10.195	415691	0.000
c32	10.715	385718	0.000
c34	11.203	291221	0.000
c36	11.662	175181	0.000
c38	12.102	84680	0.000
c40	12.602	49467	0.000



Sample Name: **xcmarker,s40185,c8-c50**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b003
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 5/1/2019 8:38:40 AM
 Analysis Date: 5/1/2019 9:53:29 AM
 Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1271792	34.163
DSL:10-14	844284	60.062
DSL:10-22	3034712	81.157
DSL:10-24	3454395	89.846
DSL:10-28	4301218	109.766
DSL:12-24	3033671	90.194
DSL:12-28	3880494	112.894
DSL:14-24	2610111	100.919
DSL:16-24	2182603	122.765
MO:22-32	2079369	73.061
MO:24-36	2155405	71.669
MO:28-40	1449881	72.124
BUNKC:10-40	5750528	250.896
BUNKC:12-40	5329804	240.731

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

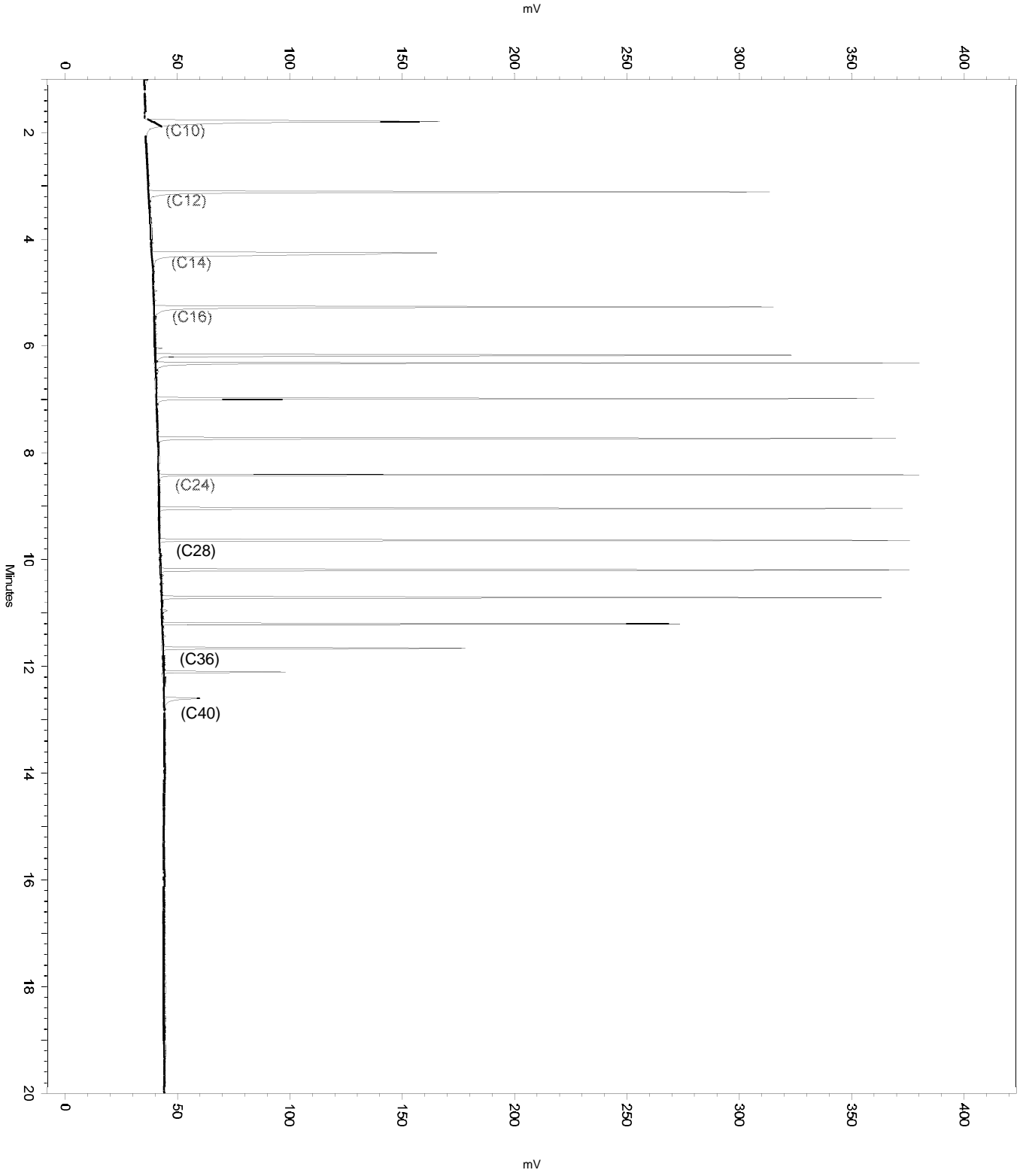
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Force Peak Stop     2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b003
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         1.748     1.881     0
  
```

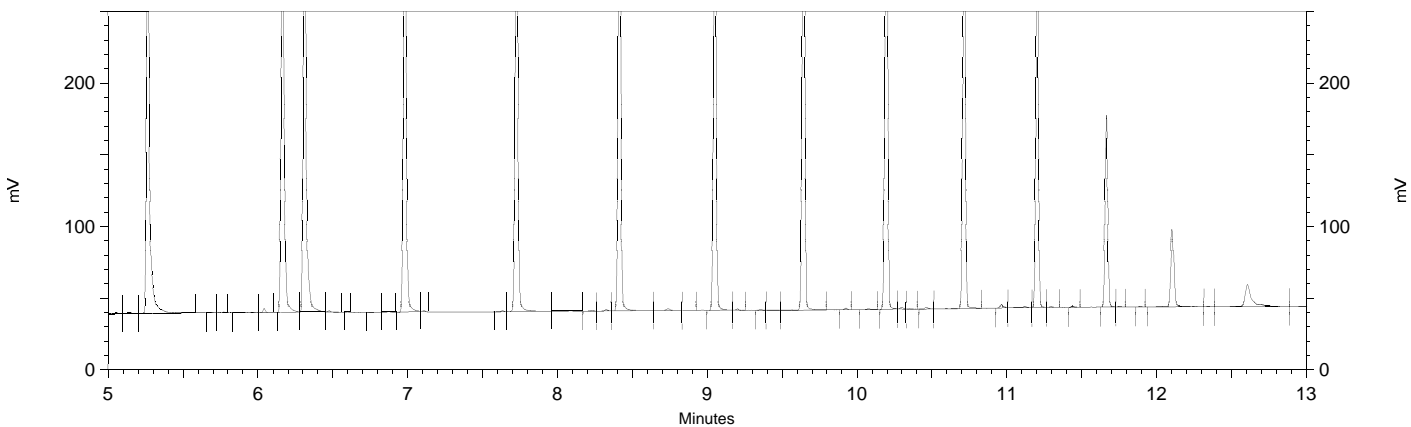
Sample Name: xcmarker,s40185,c8-c50
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b003
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 5/1/2019 8:38:40 AM
Analysis Date: 5/1/2019 9:53:29 AM
Instrument: GC14B Vial: 3 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: xcmarker,s40185,c8-c50
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b003
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsur_116.met
 Run Date: 5/1/2019 8:38:40 AM
 Analysis Date: 5/1/2019 8:58:50 AM
 Instrument: GC14B Vial: 3 Operator: lims2k3\teh
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.475	1228	0.025
Hexacosane	9.200	1047	0.026



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

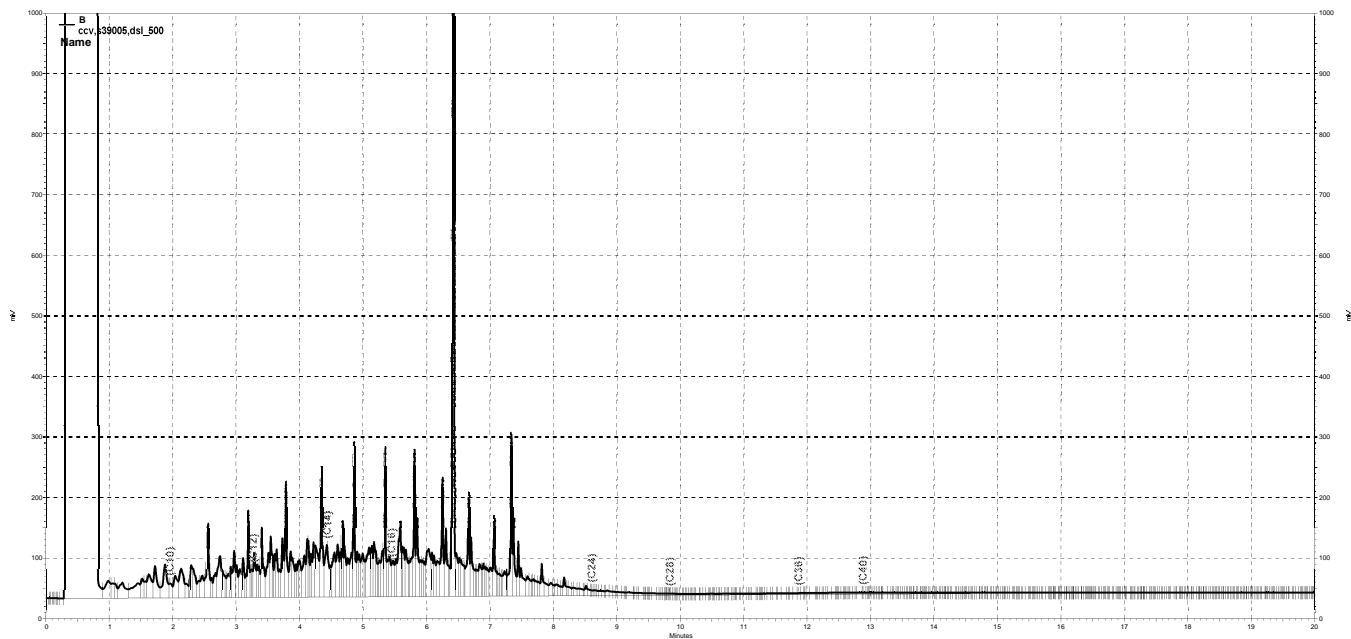
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10126\121b003_B2BC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Continuing Calibration Verification Raw Data



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b004, B

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 10:39:35 AM
 Analysis Date: 4/26/2019 12:45:06 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12218323	328.210
DSL:10-14	7682286	546.512
DSL:10-22	23012778	615.432
DSL:10-24	23574978	613.168
DSL:10-28	23946032	611.094
DSL:12-24	20831262	619.331
DSL:12-28	21202316	616.834
DSL:14-24	16357033	632.441
DSL:16-24	12165624	684.282
MO:22-32	1324332	46.532
MO:24-36	692998	23.043
MO:28-40	412361	20.513
BUNKC:10-40	24334760	1061.727
BUNKC:12-40	21591044	975.201

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

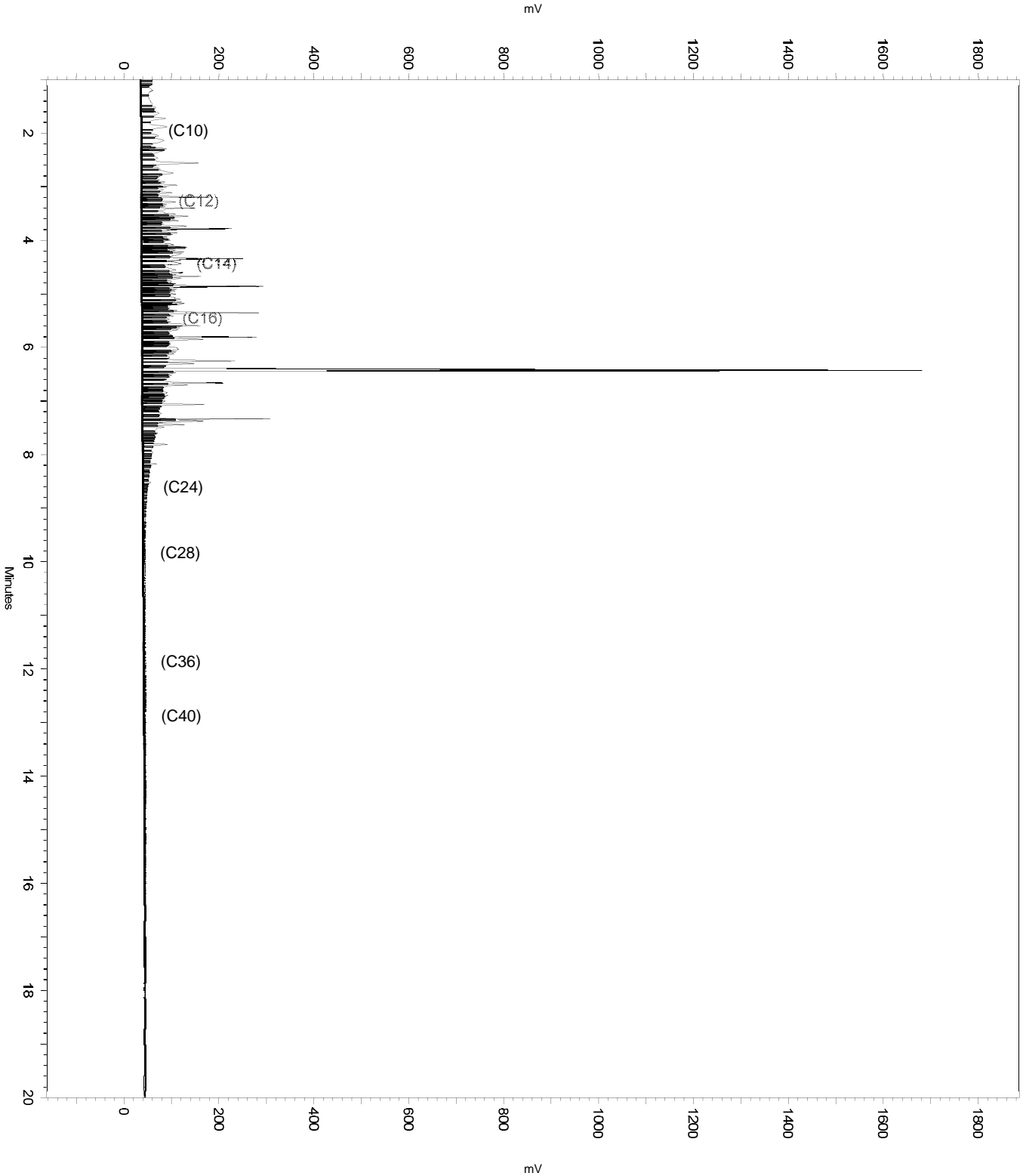
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.38	6.607	0
No	Split Peak	6.457	0	0
Yes	Move BL Stop	10.648	17.005	0

Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 10:39:35 AM
Analysis Date: 4/26/2019 12:45:06 PM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 10:39:35 AM
 Analysis Date: 4/26/2019 12:44:50 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12088172	324.714
DSL:10-14	7605064	541.019
DSL:10-22	22711192	607.367
DSL:10-24	23217392	603.868
DSL:10-28	23469766	598.940
DSL:12-24	20502676	609.561
DSL:12-28	20755050	603.821
DSL:14-24	16073456	621.477
DSL:16-24	11929065	670.977
MO:22-32	1018659	35.792
MO:24-36	333924	11.103
MO:28-40	43083	2.143
BUNKC:10-40	23504332	1025.495
BUNKC:12-40	20789616	939.003

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

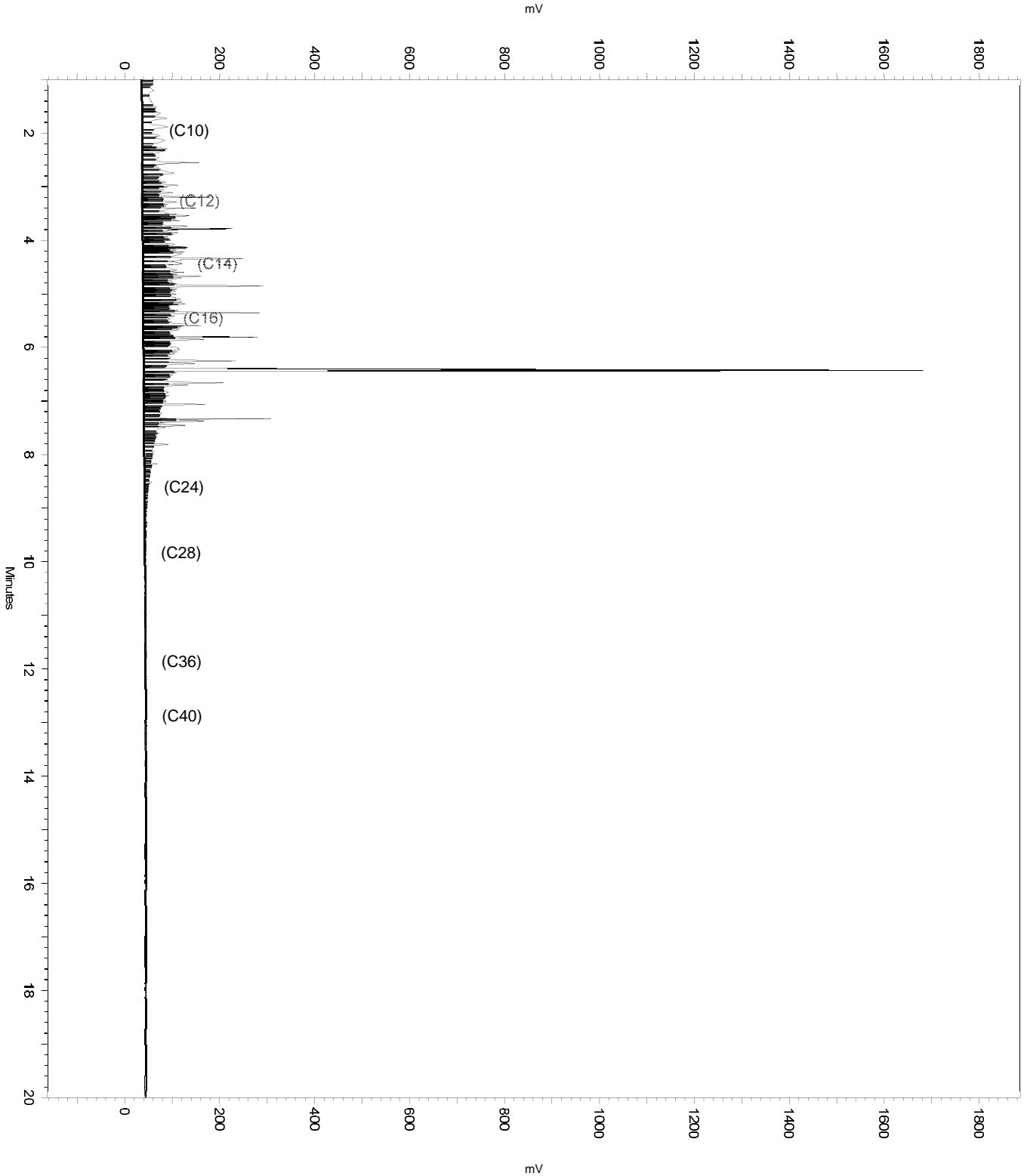
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.38	6.607	0
No	Split Peak	6.457	0	0

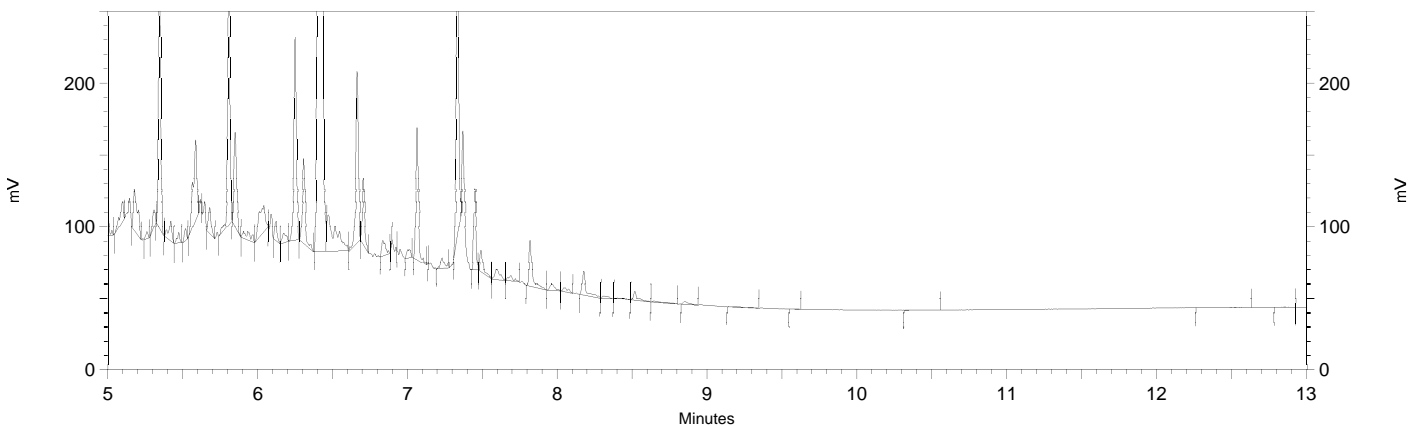
Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 10:39:35 AM
Analysis Date: 4/26/2019 12:44:50 PM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 10:39:35 AM
 Analysis Date: 4/26/2019 12:42:31 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.432	2507940	50.621
Hexacosane	9.183	2180	0.053



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

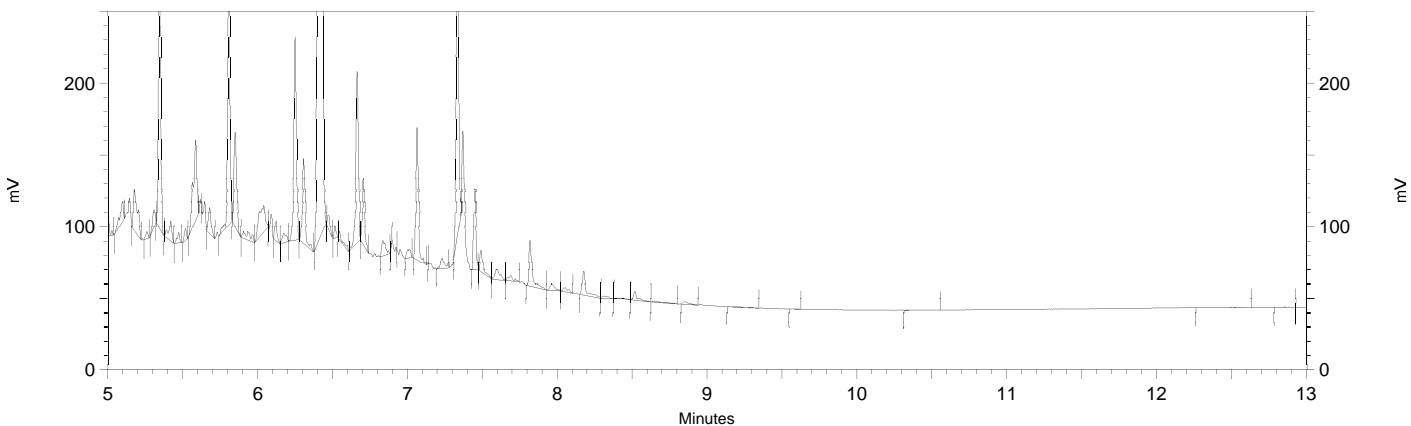
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b004
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.38      6.607     0
Yes Split Peak          6.457     0          0
  
```

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 10:39:35 AM
 Analysis Date: 4/26/2019 12:42:09 PM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.432	2464075	49.735
Hexacosane	9.183	2180	0.053



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

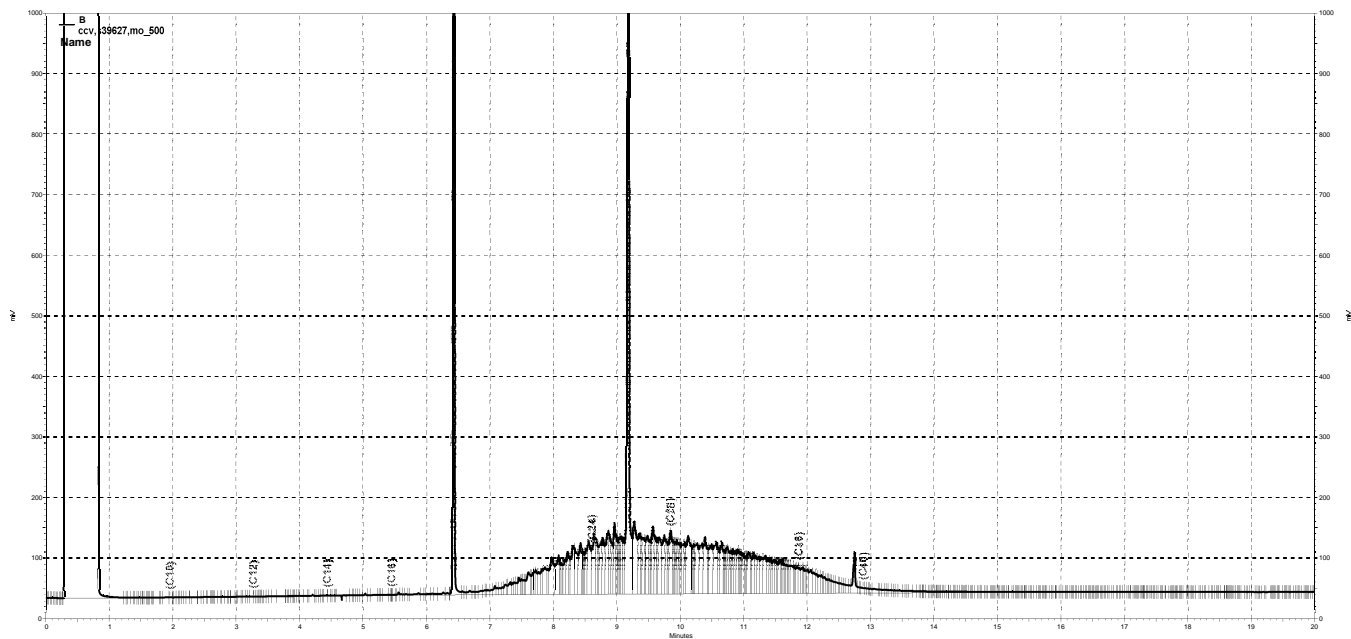
```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005, B

Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 11:07:11 AM
 Analysis Date: 4/26/2019 12:47:06 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	30621	0.823
DSL:10-14	12511	0.890
DSL:10-22	3971627	106.213
DSL:10-24	6553352	170.448
DSL:10-28	15252711	389.244
DSL:12-24	6546392	194.630
DSL:12-28	15245751	443.541
DSL:14-24	6540928	252.904
DSL:16-24	6528737	367.223
MO:22-32	16598067	583.190
MO:24-36	17552878	583.651
MO:28-40	10523279	523.477
BUNKC:10-40	24885016	1085.734
BUNKC:12-40	24878056	1123.665

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

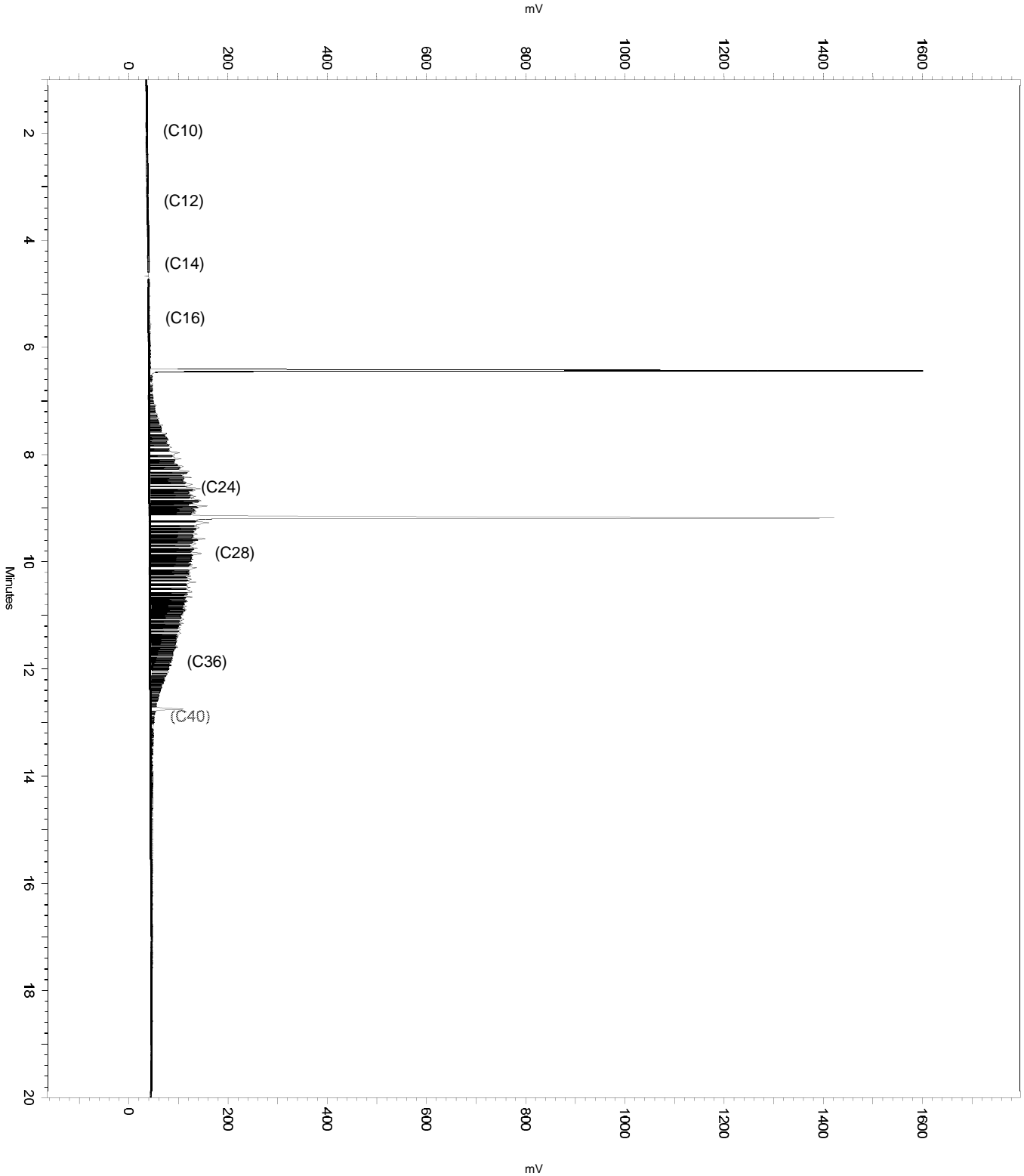
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	4.668	4.59	0
Yes	Move BL Start	4.668	4.733	0
No	Manual Peak	6.379	6.627	0
No	Split Peak	6.527	0	0
No	Manual Peak	9.119	9.397	0
No	Split Peak	9.247	0	0
Yes	Move BL Stop	14.15	17.093	0

Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 11:07:11 AM
Analysis Date: 4/26/2019 12:47:06 PM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 11:07:11 AM
 Analysis Date: 4/26/2019 12:45:18 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	608838	16.355
DSL:10-14	170024	12.095
DSL:10-22	5323674	142.371
DSL:10-24	8061483	209.673
DSL:10-28	16966432	432.977
DSL:12-24	8054523	239.468
DSL:12-28	16959472	493.398
DSL:14-24	7927791	306.526
DSL:16-24	7520944	423.032
MO:22-32	17104820	600.996
MO:24-36	17942056	596.592
MO:28-40	10689425	531.741
BUNKC:10-40	26741096	1166.716
BUNKC:12-40	26734136	1207.500

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

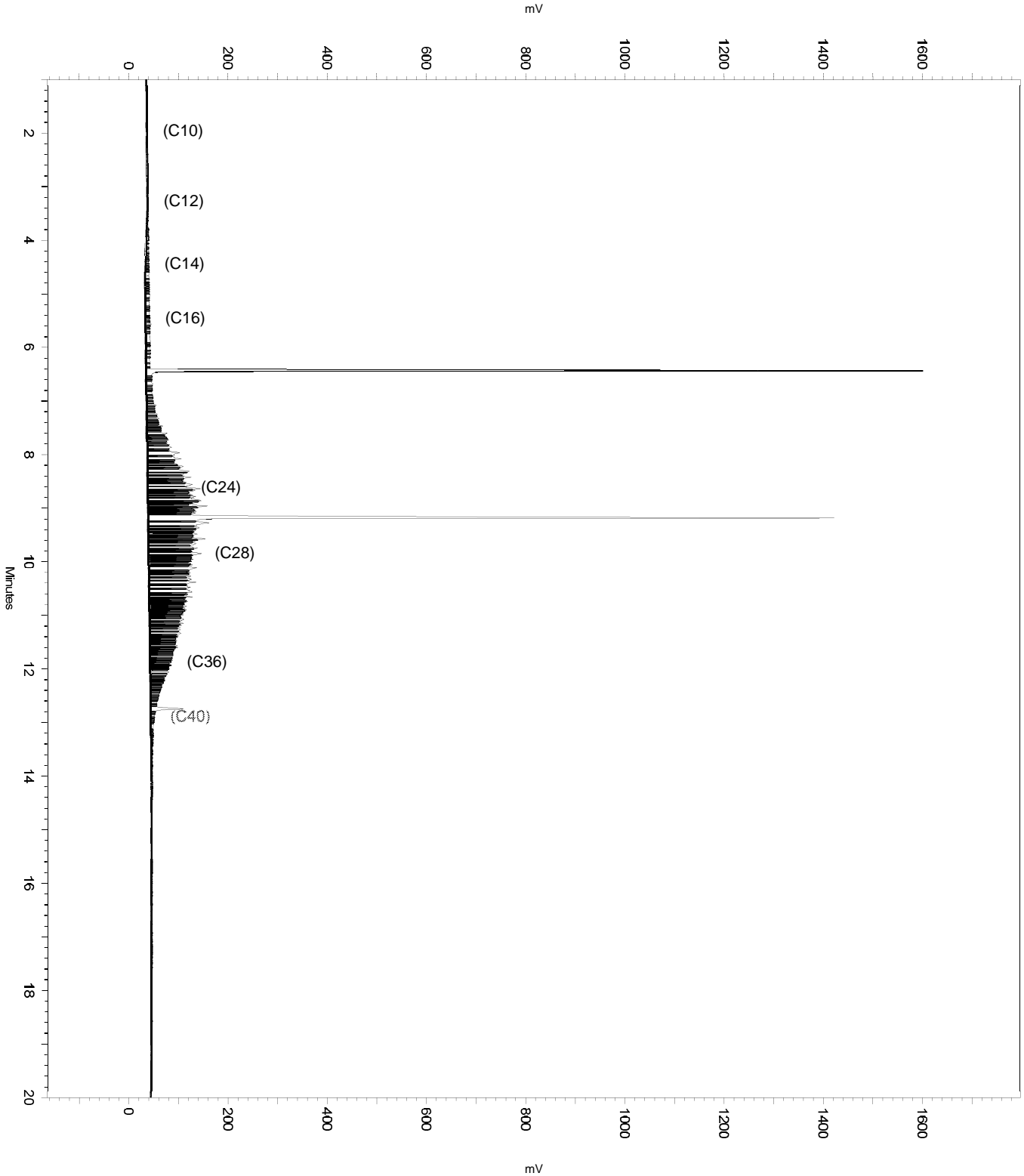
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.379	6.627	0
No	Split Peak	6.527	0	0
No	Manual Peak	9.119	9.397	0
No	Split Peak	9.247	0	0

Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 11:07:11 AM
Analysis Date: 4/26/2019 12:45:18 PM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1

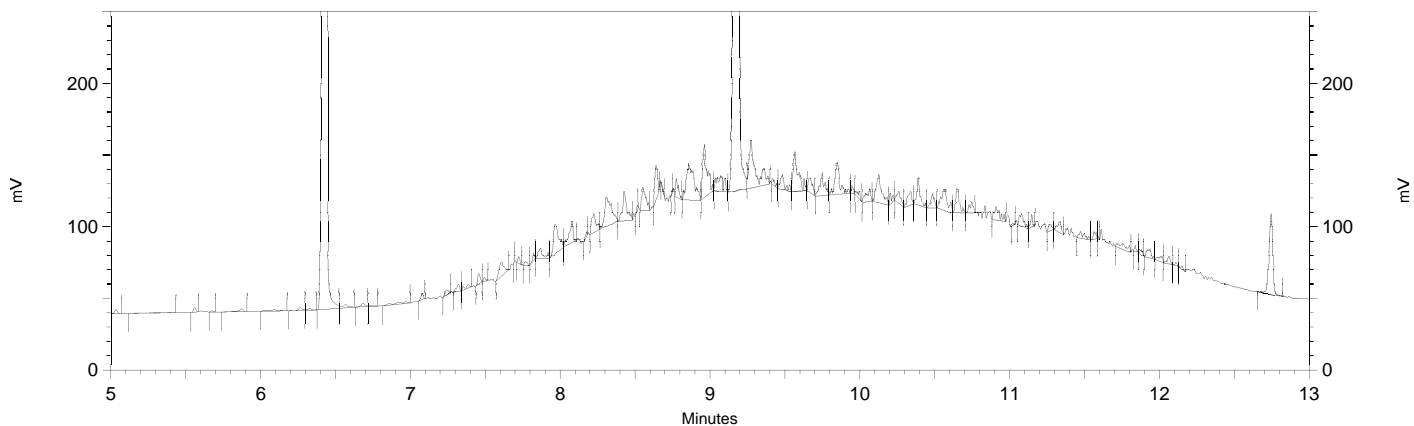


Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothurr_116.met
 Run Date: 4/26/2019 11:07:11 AM
 Analysis Date: 4/26/2019 12:43:27 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.438	2466604	49.786
Hexacosane	9.185	2150879	52.482



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

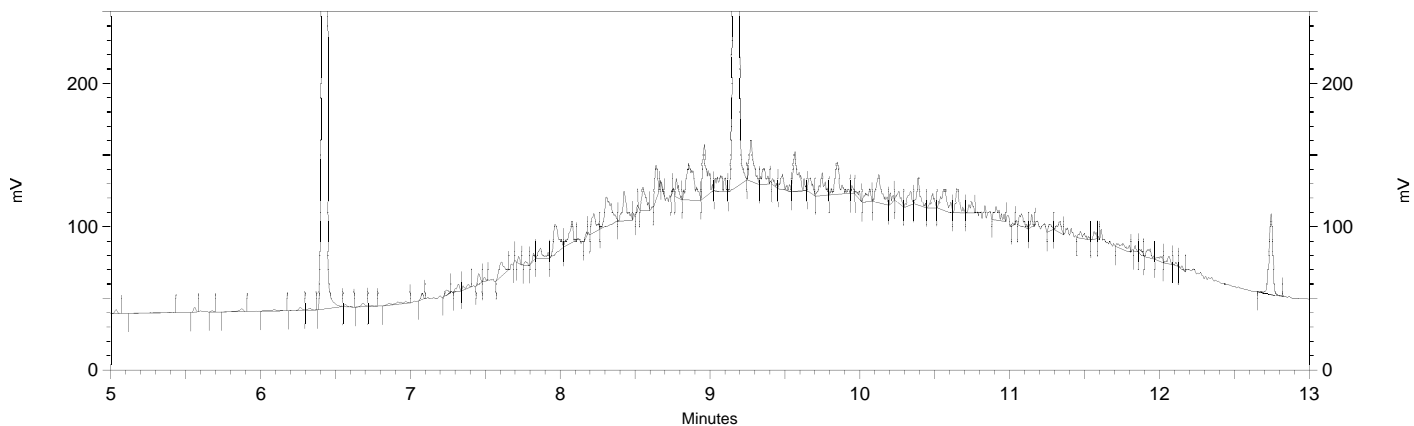
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.379	6.627	0
Yes	Split Peak	6.527	0	0
Yes	Manual Peak	9.119	9.397	0
Yes	Split Peak	9.247	0	0

Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 11:07:11 AM
 Analysis Date: 4/26/2019 12:42:44 PM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.438	2463485	49.723
Hexacosane	9.185	2129442	51.959



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

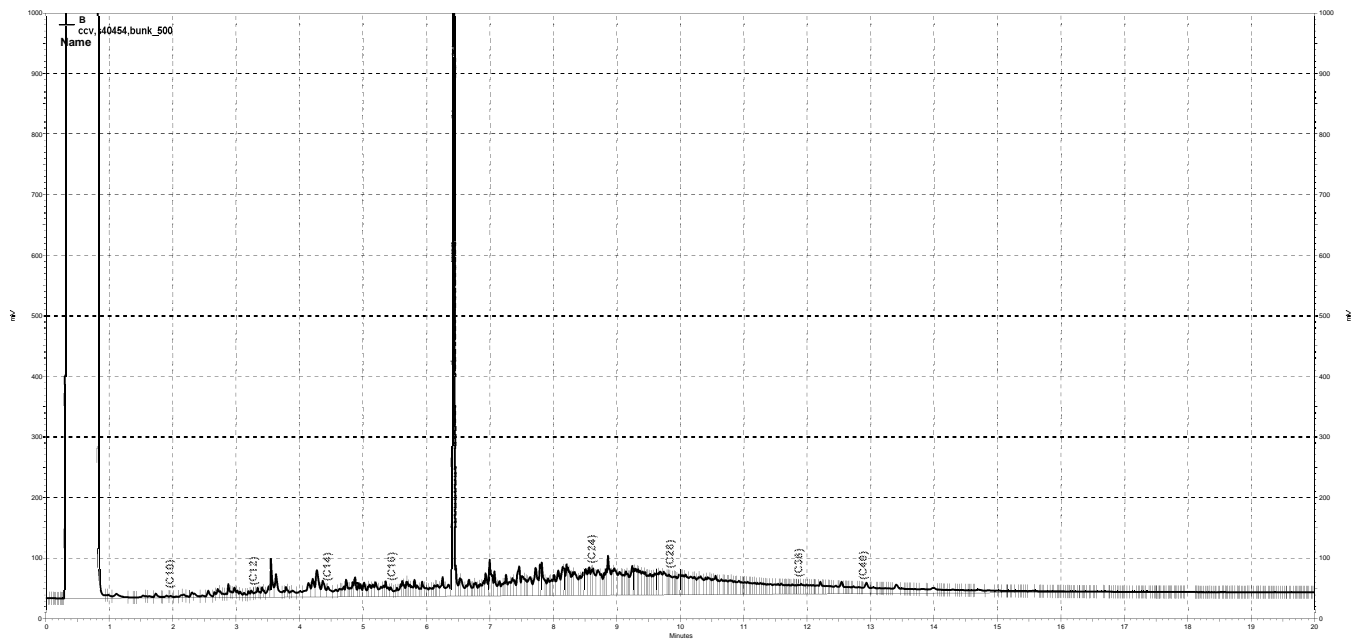
```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b005
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007, B

Sample Name: ccv,s40454,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 12:03:00 PM
 Analysis Date: 4/26/2019 12:48:00 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2378389	63.889
DSL:10-14	1477056	105.077
DSL:10-22	8019642	214.470
DSL:10-24	9389844	244.223
DSL:10-28	12028245	306.956
DSL:12-24	9004064	267.698
DSL:12-28	11642465	338.711
DSL:14-24	8155904	315.346
DSL:16-24	7169849	403.284
MO:22-32	5951329	209.106
MO:24-36	5604124	186.343
MO:28-40	3700873	184.099
BUNKC:10-40	15412078	672.430
BUNKC:12-40	15026298	678.692

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

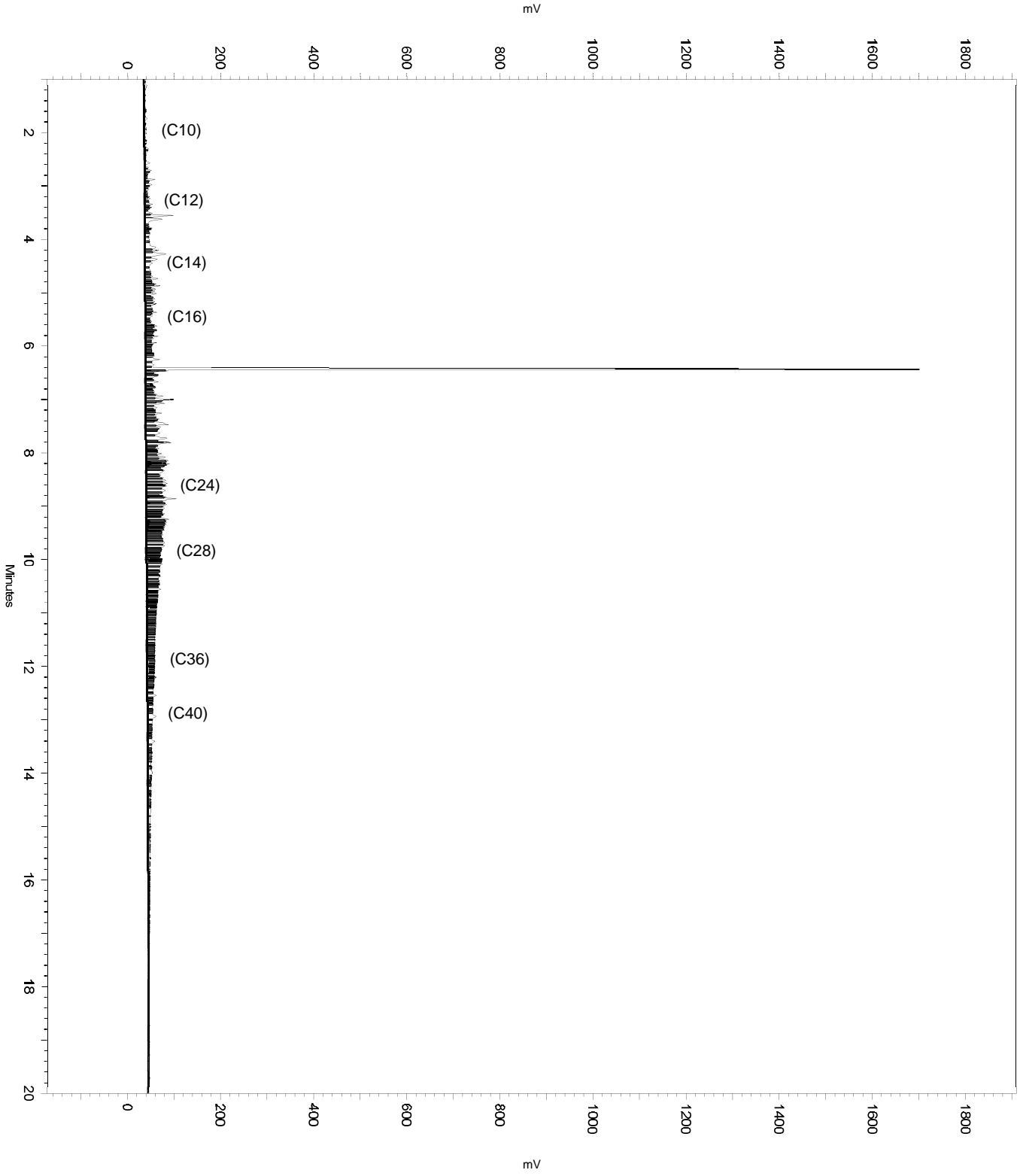
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.382	6.596	0
No	Split Peak	6.501	0	0
Yes	Move BL Stop	14.798	17.392	0

Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 12:03:00 PM
Analysis Date: 4/26/2019 12:48:00 PM
Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s40454,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 12:03:00 PM
 Analysis Date: 4/26/2019 12:47:45 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2194028	58.936
DSL:10-14	1364452	97.066
DSL:10-22	7590178	202.985
DSL:10-24	8874914	230.830
DSL:10-28	11343226	289.475
DSL:12-24	8530517	253.619
DSL:12-28	10998829	319.986
DSL:14-24	7742365	299.357
DSL:16-24	6825564	383.919
MO:22-32	5512216	193.677
MO:24-36	5083701	169.038
MO:28-40	3169078	157.645
BUNKC:10-40	14218019	620.333
BUNKC:12-40	13873622	626.629

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

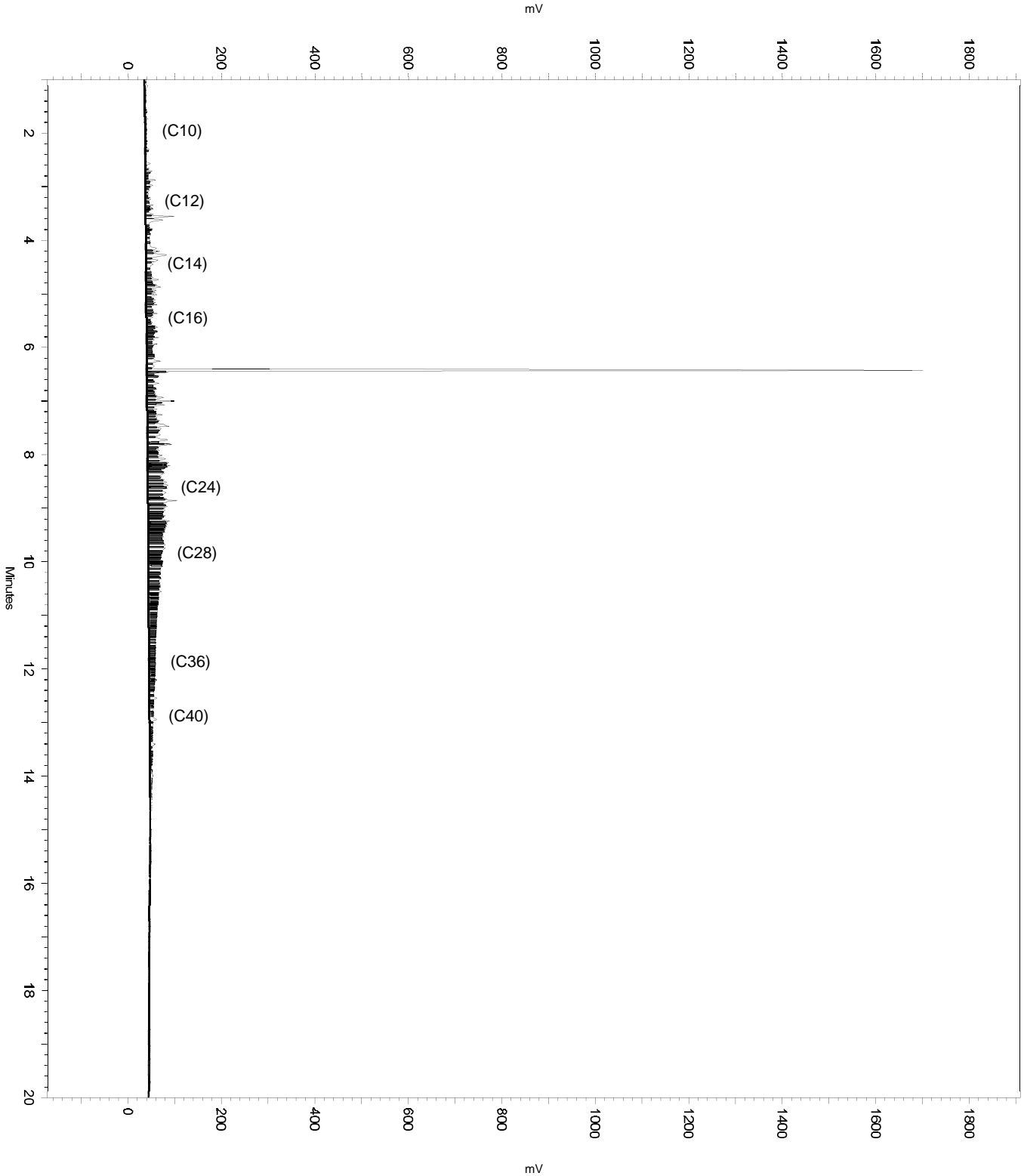
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.382	6.596	0
No	Split Peak	6.501	0	0

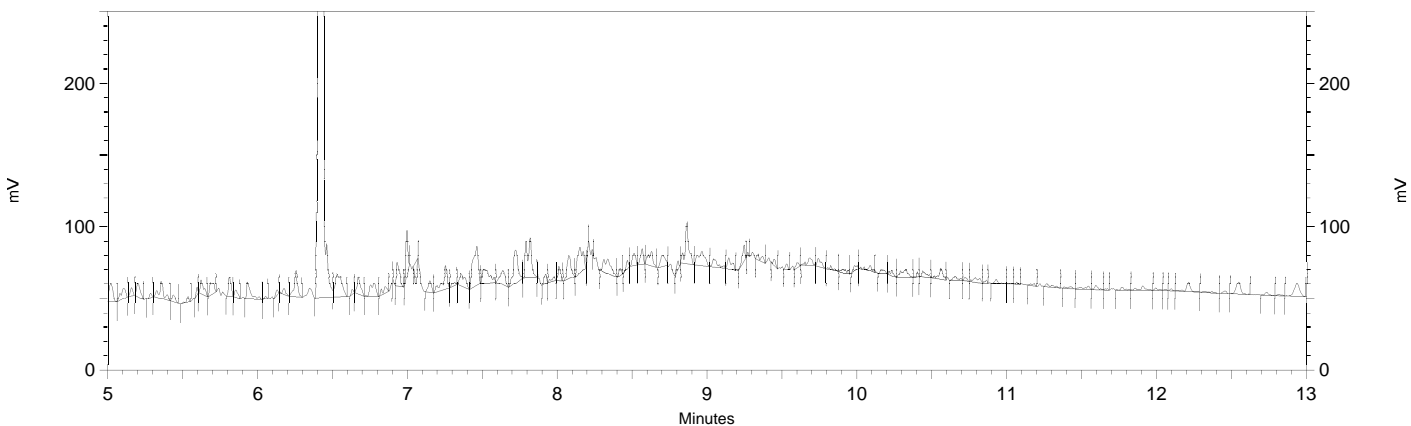
Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 12:03:00 PM
Analysis Date: 4/26/2019 12:47:45 PM
Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 12:03:00 PM
 Analysis Date: 4/26/2019 12:44:15 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.435	2594265	52.363
Hexacosane	9.145	15394	0.376



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007

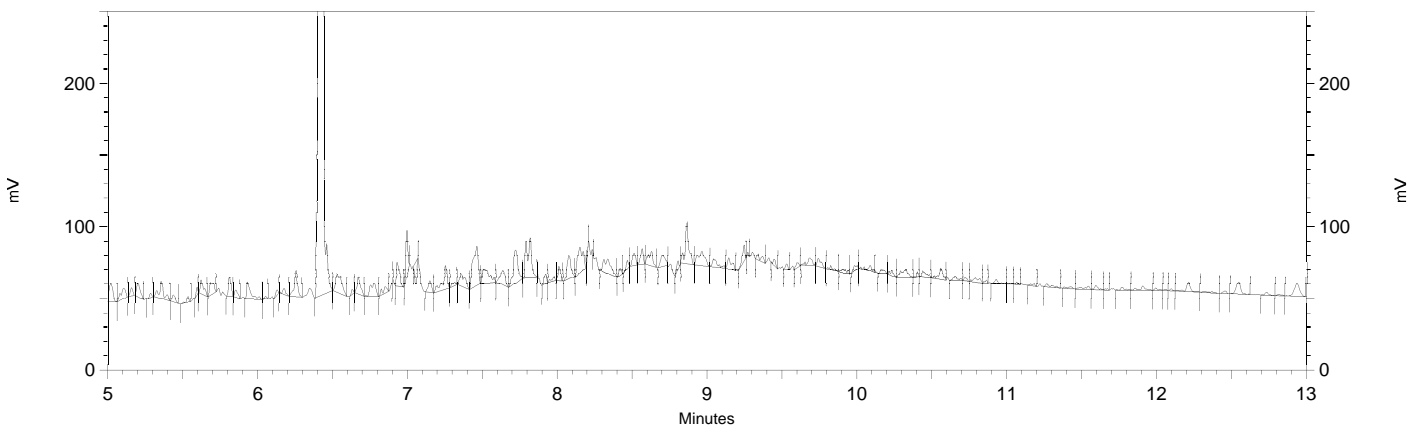
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.382	6.596	0
Yes	Split Peak	6.501	0	0

Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 12:03:00 PM
 Analysis Date: 4/26/2019 12:44:08 PM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.435	2578711	52.049
Hexacosane	9.145	15394	0.376



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

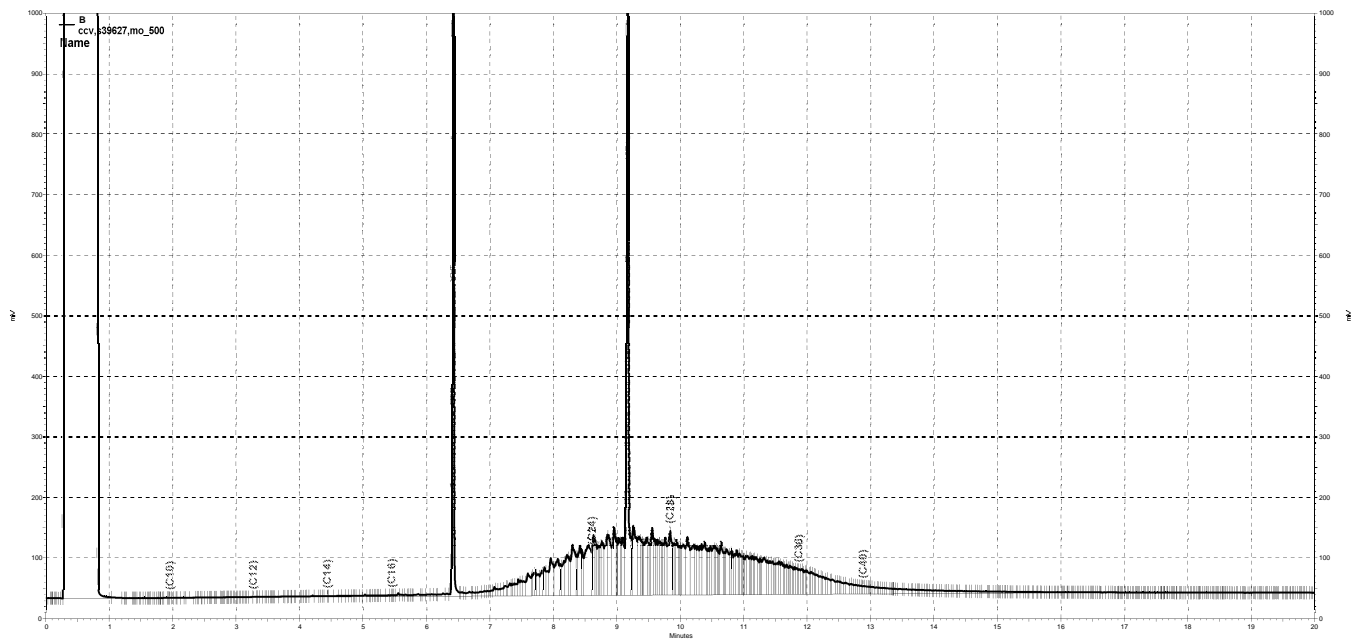
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.382	6.596	0
No	Split Peak	6.501	0	0



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b015, B

Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 5:19:58 PM
 Analysis Date: 4/26/2019 5:47:39 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	189090	5.079
DSL:10-14	89323	6.354
DSL:10-22	4153971	111.090
DSL:10-24	6791848	176.651
DSL:10-28	15098497	385.308
DSL:12-24	6777844	201.511
DSL:12-28	15084493	438.850
DSL:14-24	6719298	259.800
DSL:16-24	6619654	372.337
MO:22-32	16215872	569.761
MO:24-36	17117656	569.179
MO:28-40	10194491	507.121
BUNKC:10-40	24675328	1076.586
BUNKC:12-40	24661324	1113.877

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

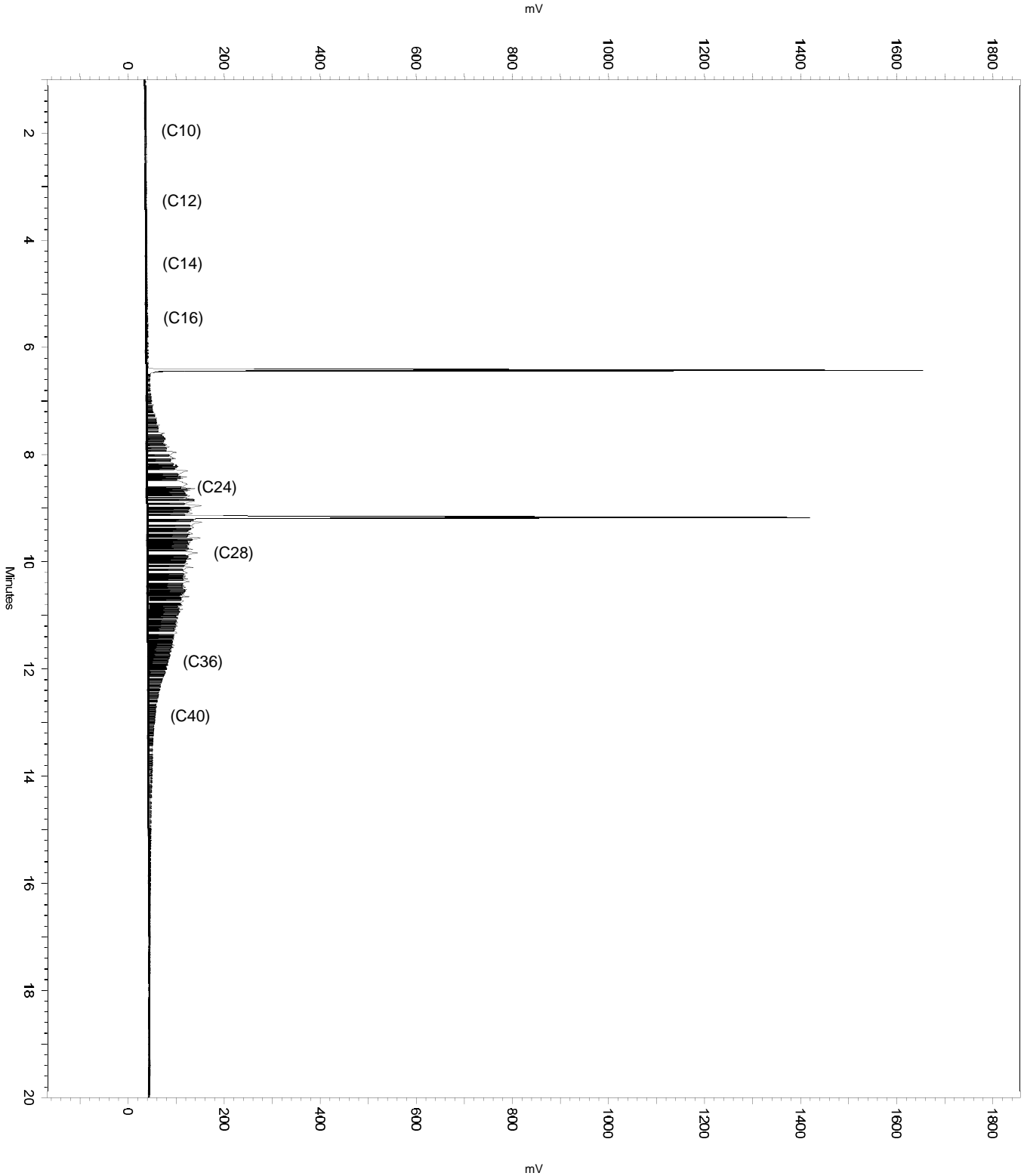
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.374	6.623	0
No	Split Peak	6.544	0	0
No	Manual Peak	9.12	9.427	0
No	Split Peak	9.241	0	0
Yes	Move BL Stop	16.633	17.148	0

Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 5:19:58 PM
Analysis Date: 4/26/2019 5:47:39 PM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 5:19:58 PM
 Analysis Date: 4/26/2019 5:47:23 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	179405	4.819
DSL:10-14	84939	6.043
DSL:10-22	4121547	110.223
DSL:10-24	6750192	175.568
DSL:10-28	15039289	383.797
DSL:12-24	6736646	200.286
DSL:12-28	15025743	437.140
DSL:14-24	6681120	258.324
DSL:16-24	6586780	370.488
MO:22-32	16168653	568.102
MO:24-36	17059944	567.260
MO:28-40	10133531	504.089
BUNKC:10-40	24557112	1071.428
BUNKC:12-40	24543568	1108.558

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

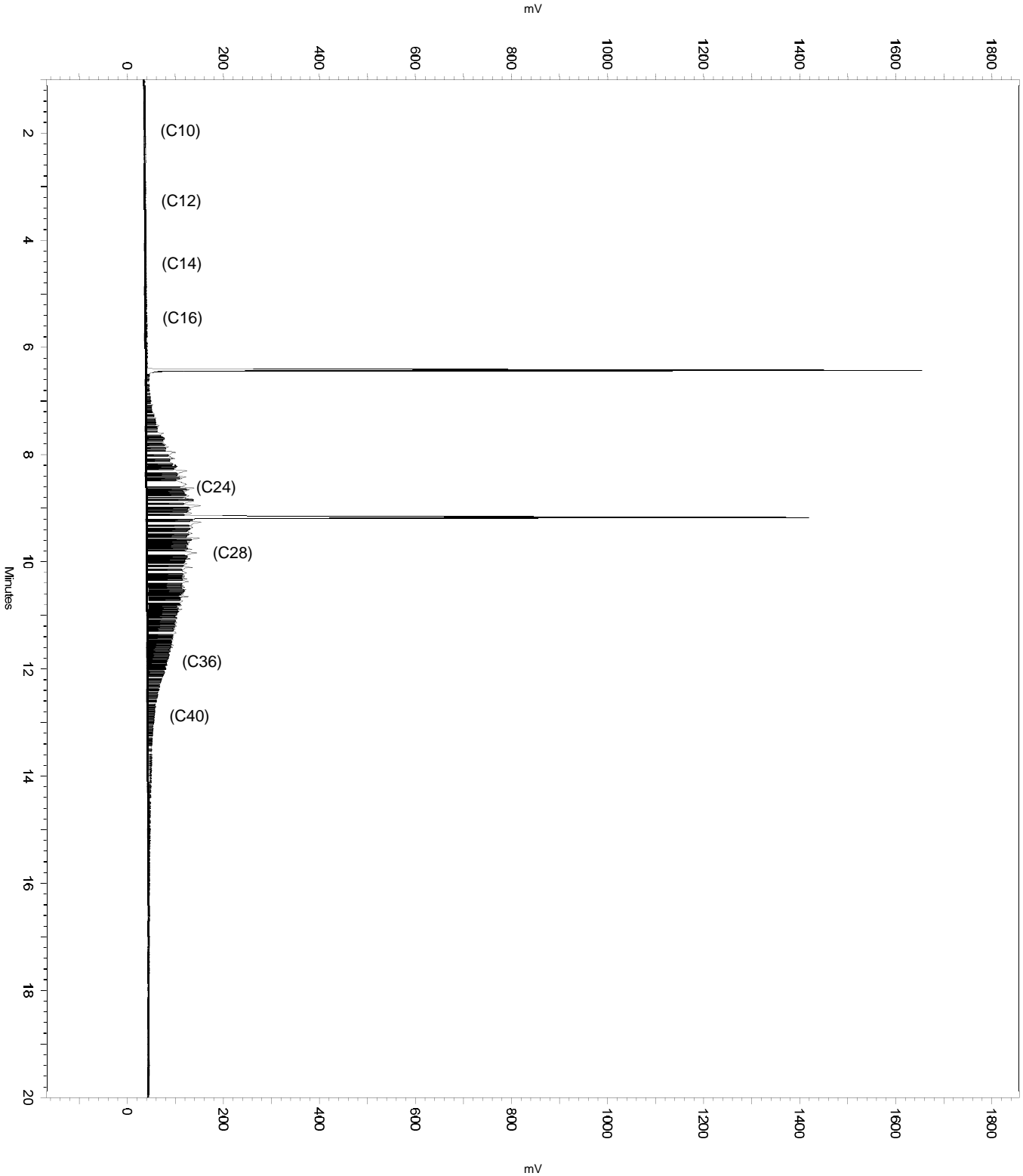
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Force Peak Stop      2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b015
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Peak          6.374     6.623     0
No Split Peak           6.544     0          0
No Manual Peak          9.12      9.427     0
No Split Peak           9.241     0          0
  
```

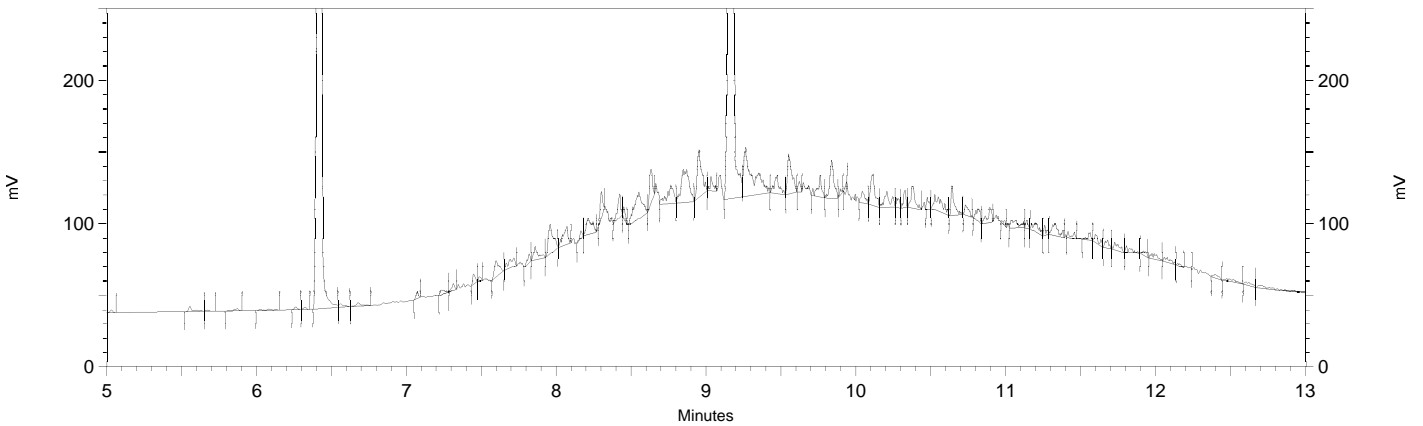
Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b015
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 5:19:58 PM
Analysis Date: 4/26/2019 5:47:23 PM
Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 5:19:58 PM
 Analysis Date: 4/26/2019 5:46:16 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.430	2386846	48.177
Hexacosane	9.175	2107482	51.423



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off      0          2     0
Yes Valley to Valley     0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

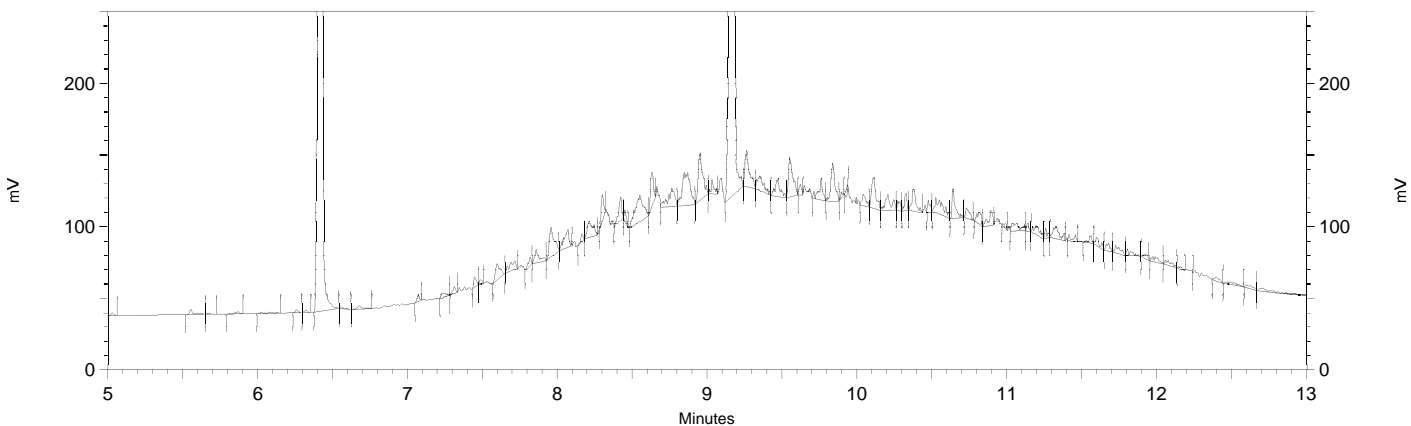
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b015
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Manual Peak         6.374     6.623    0
Yes Split Peak          6.544     0         0
Yes Manual Peak         9.12      9.427    0
Yes Split Peak          9.241     0         0
  
```

Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b015
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 5:19:58 PM
 Analysis Date: 4/26/2019 5:45:18 PM
 Instrument: GC14B Vial: 15 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.430	2380295	48.044
Hexacosane	9.175	2071878	50.554



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

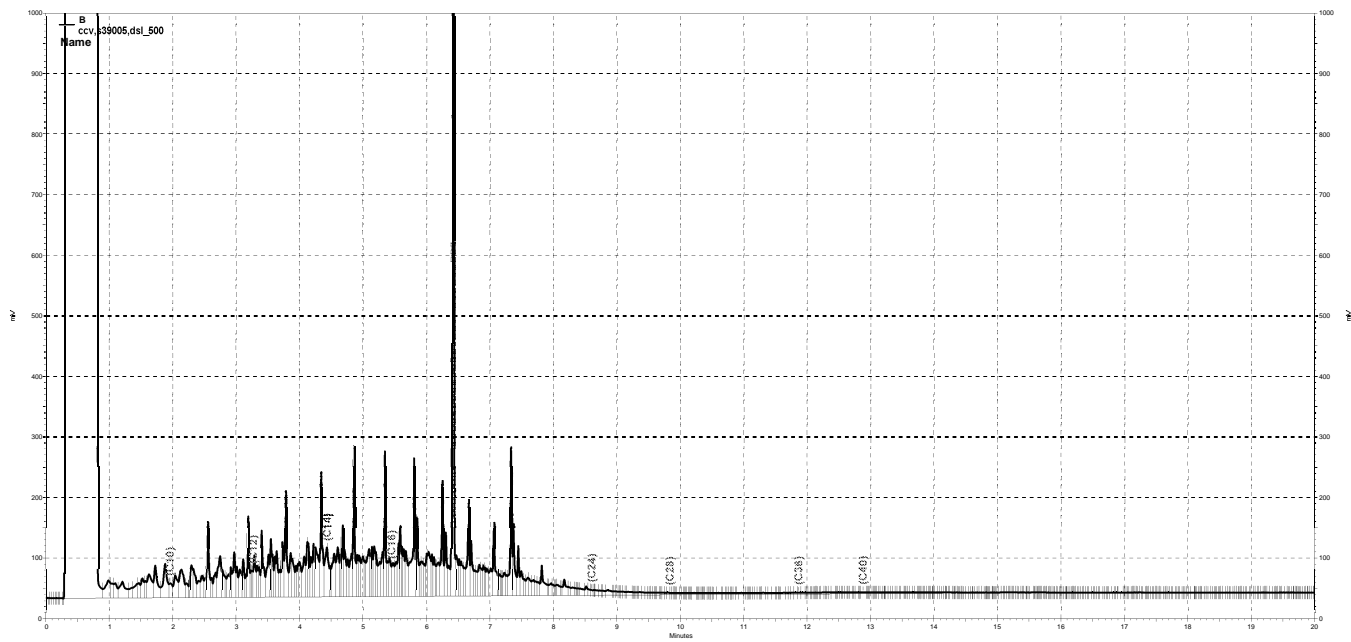
```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b017, B

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b017
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 6:14:47 PM
 Analysis Date: 4/26/2019 7:08:33 PM
 Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	11789227	316.684
DSL:10-14	7433765	528.833
DSL:10-22	21982144	587.870
DSL:10-24	22545170	586.384
DSL:10-28	22947360	585.608
DSL:12-24	19849382	590.139
DSL:12-28	20251572	589.174
DSL:14-24	15555675	601.457
DSL:16-24	11538117	648.987
MO:22-32	1375526	48.331
MO:24-36	765476	25.453
MO:28-40	475523	23.655
BUNKC:10-40	23387616	1020.403
BUNKC:12-40	20691828	934.587

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

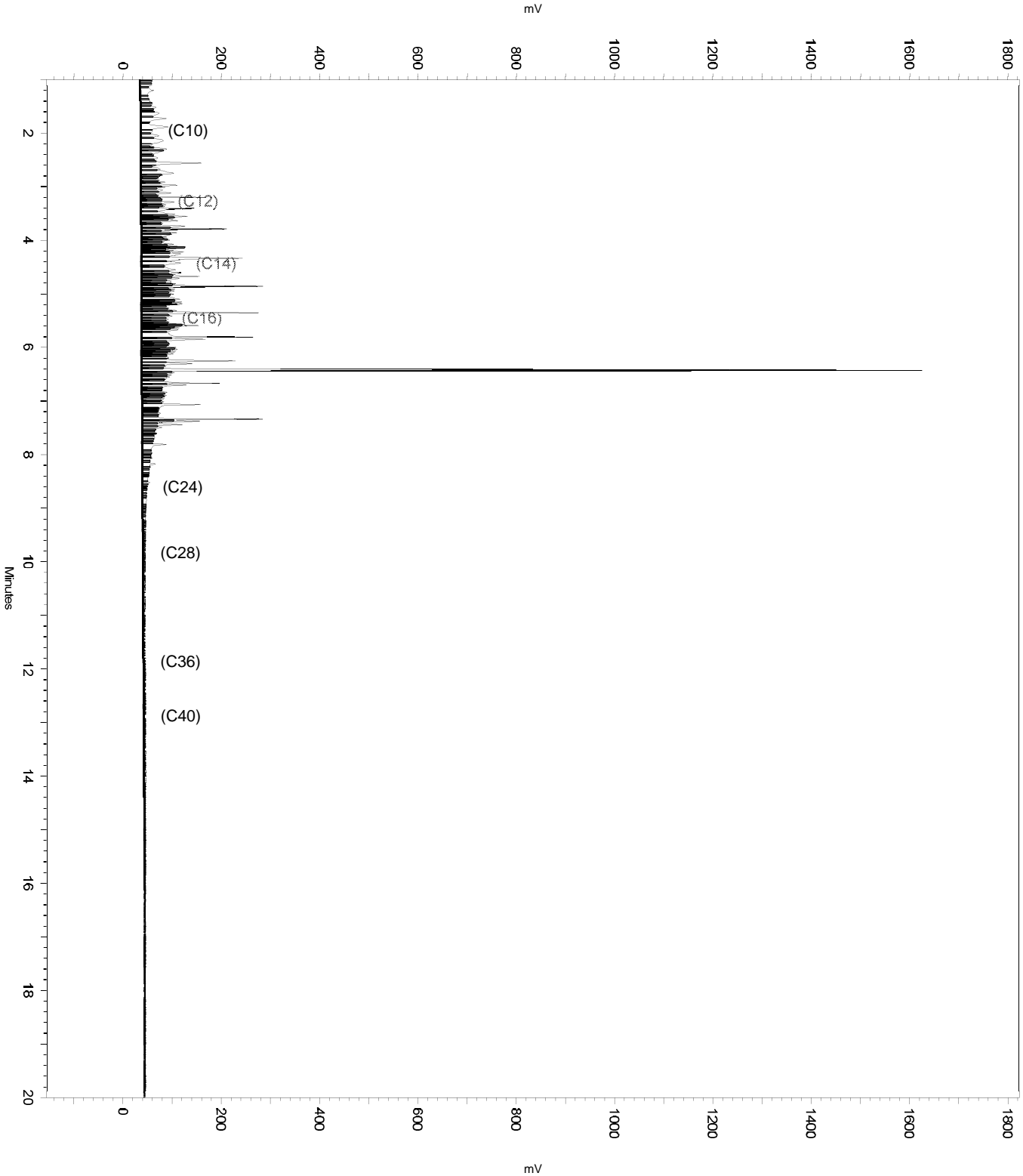
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.377	6.616	0
No	Split Peak	6.462	0	0
Yes	Move BL Stop	10.867	16.197	0

Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b017
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 6:14:47 PM
Analysis Date: 4/26/2019 7:08:33 PM
Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b017
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 6:14:47 PM
 Analysis Date: 4/26/2019 7:07:46 PM
 Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	11631638	312.451
DSL:10-14	7340527	522.200
DSL:10-22	21618880	578.155
DSL:10-24	22111768	575.111
DSL:10-28	22368600	570.839
DSL:12-24	19450960	578.293
DSL:12-28	19707792	573.354
DSL:14-24	15211625	588.154
DSL:16-24	11250932	632.834
MO:22-32	1005357	35.324
MO:24-36	352895	11.734
MO:28-40	78797	3.920
BUNKC:10-40	22432930	978.749
BUNKC:12-40	19772122	893.046

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

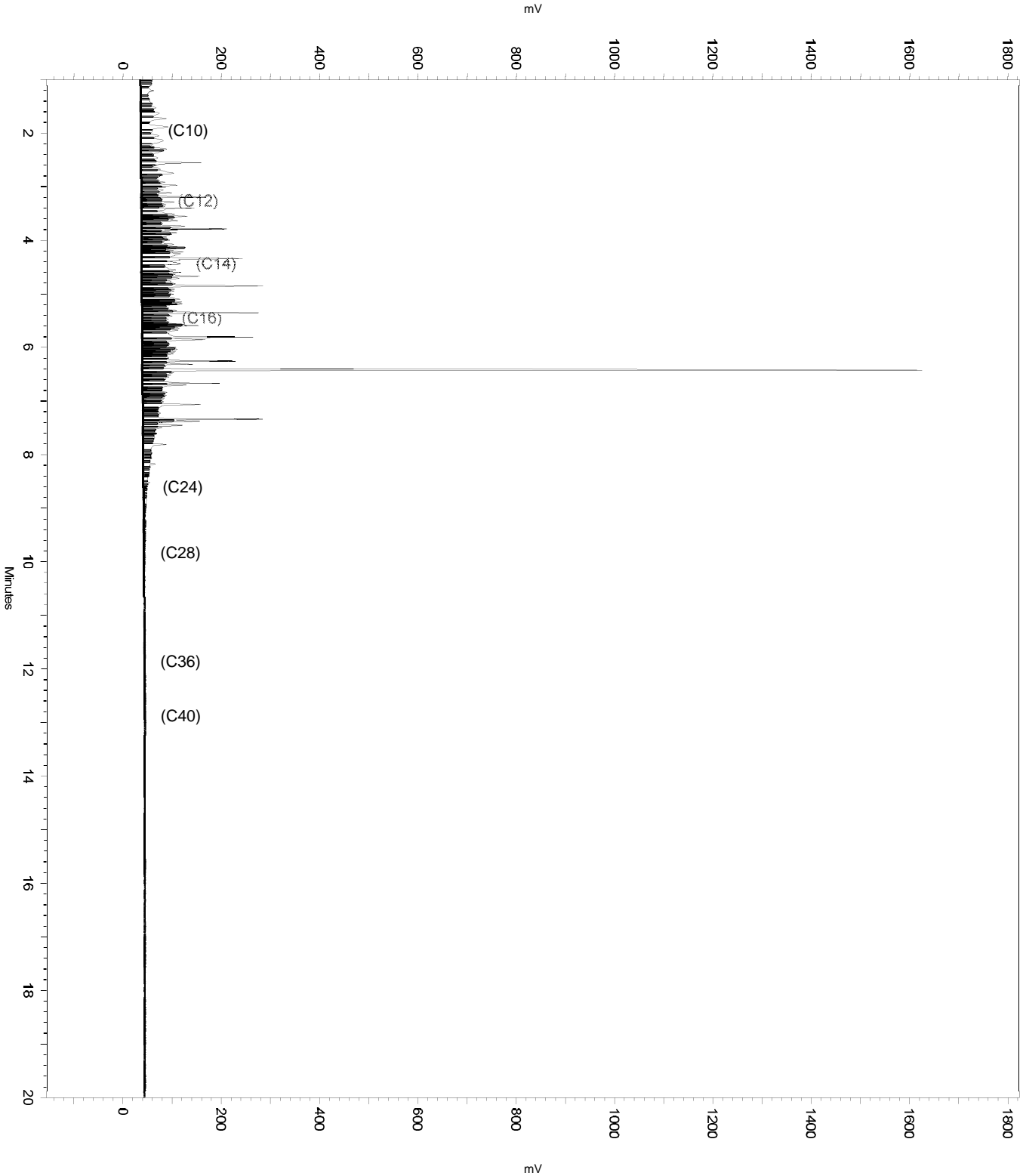
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.377	6.616	0
No	Split Peak	6.462	0	0

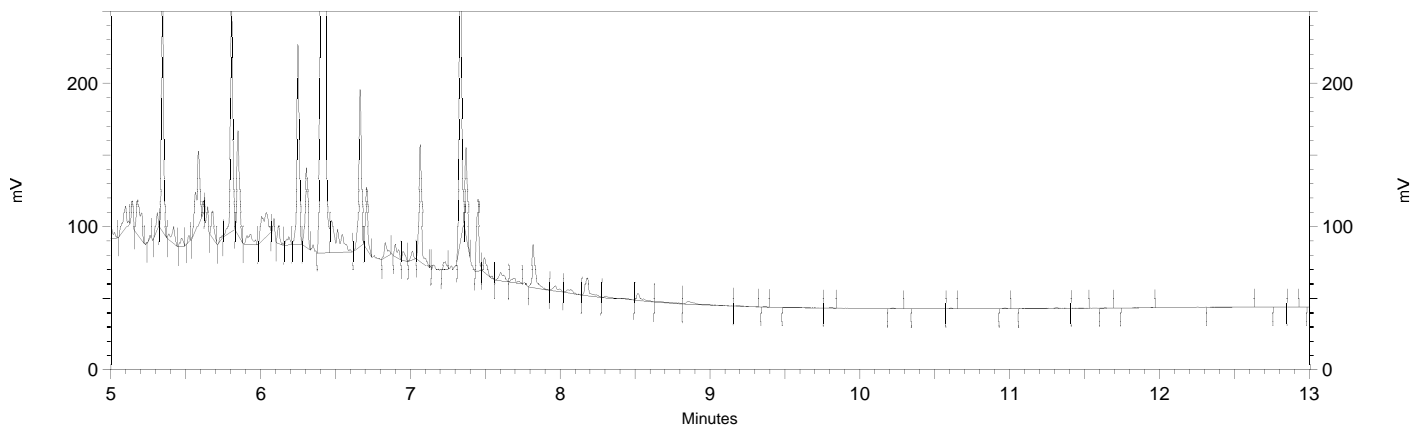
Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b017
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 6:14:47 PM
Analysis Date: 4/26/2019 7:07:46 PM
Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b017
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 6:14:47 PM
 Analysis Date: 4/26/2019 7:05:48 PM
 Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.430	2362628	47.688
Hexacosane	9.180	1733	0.042



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

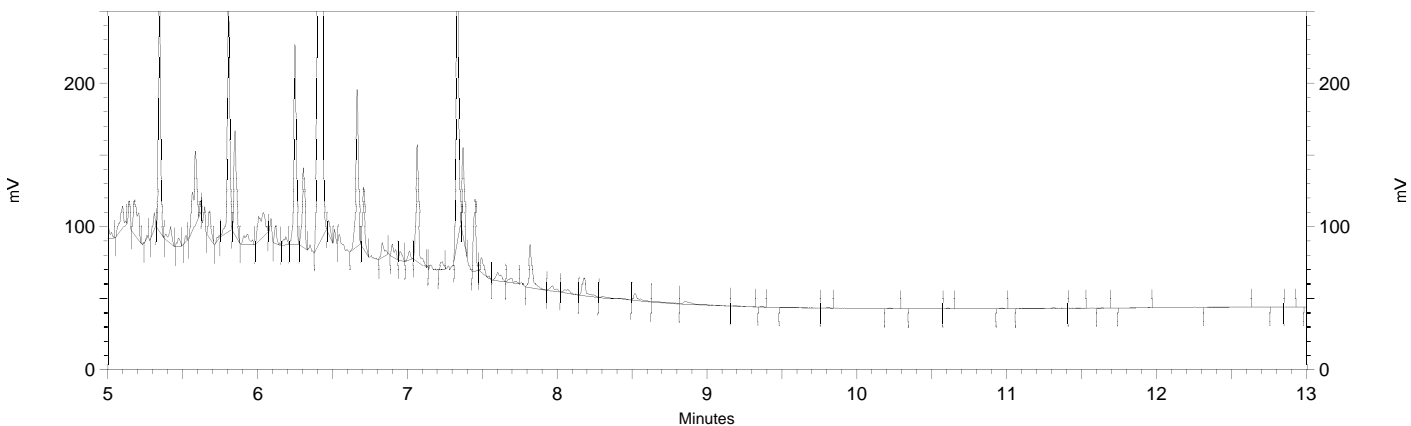
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.377	6.616	0
Yes	Split Peak	6.462	0	0

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b017
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 6:14:47 PM
 Analysis Date: 4/26/2019 7:05:01 PM
 Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.430	2322899	46.886
Hexacosane	9.180	1733	0.042



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b017
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

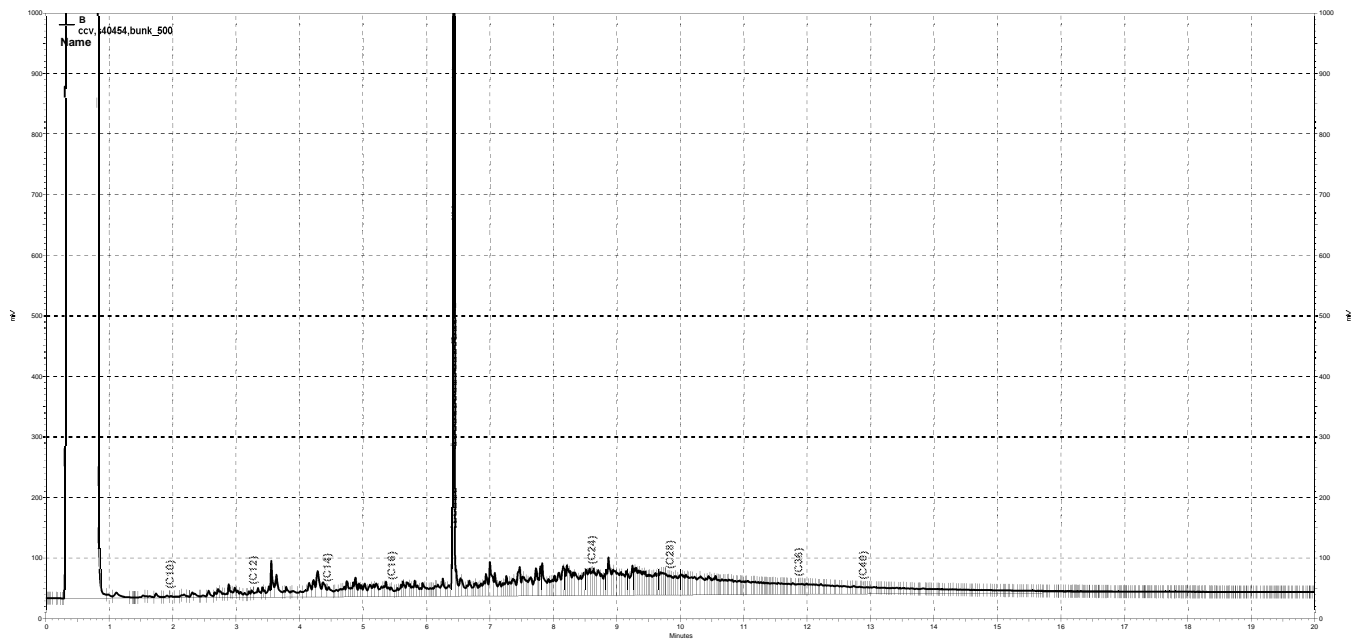
ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 229167587020 File : 116_020 Time : 26-APR-2019 20:14
 Standards: S40454

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	229121391002	25-MAR-2019	22140	25347	500.0	572.4	mg/L	14	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49956	50.00	50.42	mg/L	1	15	

TKY 04/29/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 04/29/19 Reviewer: EAH Date: 04/29/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b020, B

Sample Name: ccv,s40454,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 8:14:36 PM
 Analysis Date: 4/29/2019 9:51:19 AM
 Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2374393	63.781
DSL:10-14	1473638	104.834
DSL:10-22	7955423	212.752
DSL:10-24	9318029	242.355
DSL:10-28	11930279	304.456
DSL:12-24	8928801	265.461
DSL:12-28	11541051	335.761
DSL:14-24	8086504	312.663
DSL:16-24	7104845	399.628
MO:22-32	5992376	210.548
MO:24-36	5735657	190.716
MO:28-40	3909695	194.486
BUNKC:10-40	15560503	678.906
BUNKC:12-40	15171275	685.240

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

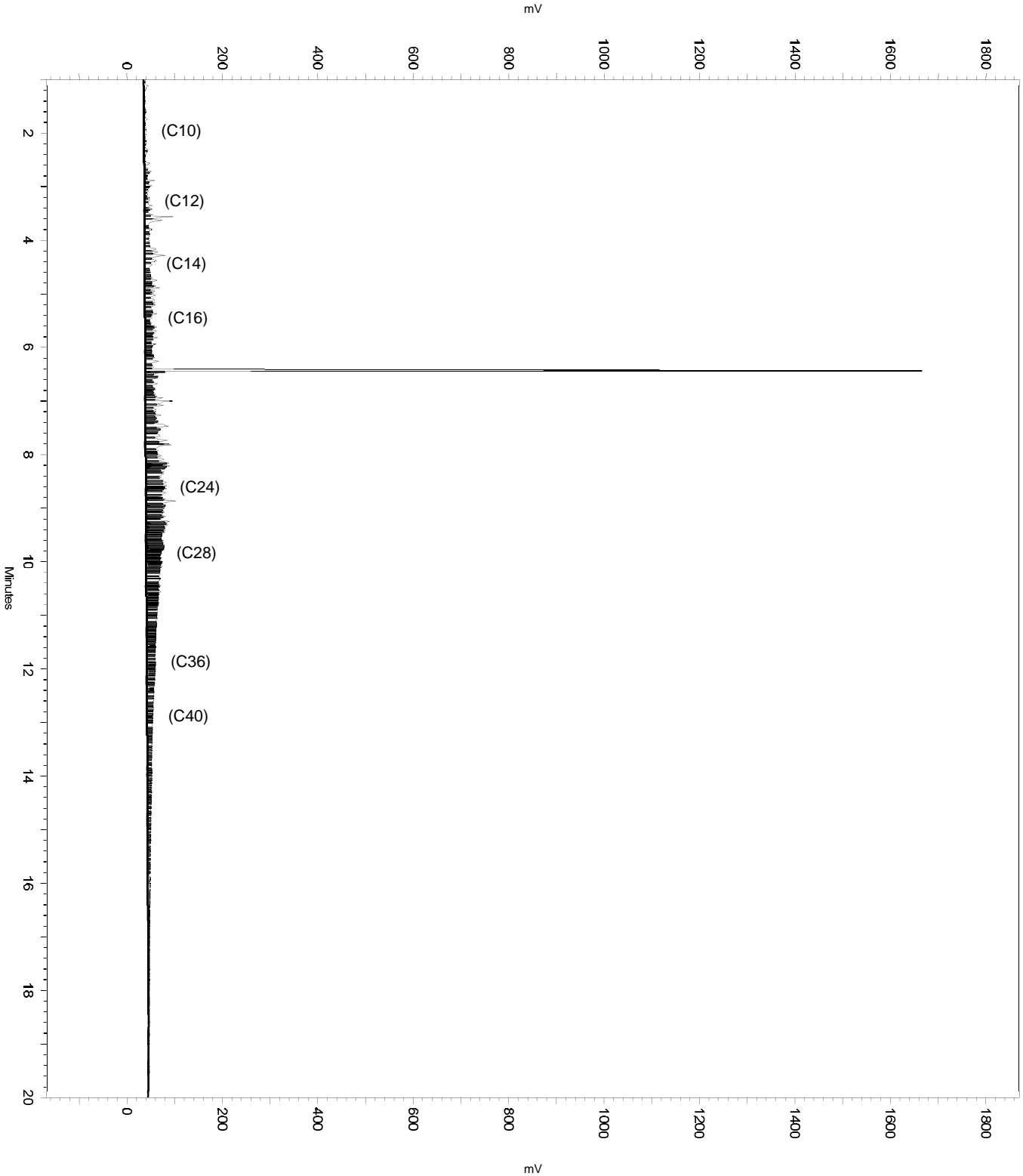
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.385	6.62	0
No	Split Peak	6.463	0	0
Yes	Move BL Stop	16.993	18.687	0

Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b020
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 8:14:36 PM
Analysis Date: 4/29/2019 9:51:19 AM
Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s40454,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/26/2019 8:14:36 PM
 Analysis Date: 4/29/2019 9:51:05 AM
 Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2314423	62.170
DSL:10-14	1436920	102.221
DSL:10-22	7815899	209.021
DSL:10-24	9150822	238.006
DSL:10-28	11708420	298.795
DSL:12-24	8775064	260.890
DSL:12-28	11332662	329.698
DSL:14-24	7952301	307.474
DSL:16-24	6993109	393.343
MO:22-32	5849943	205.544
MO:24-36	5568216	185.149
MO:28-40	3737886	185.940
BUNKC:10-40	15173265	662.010
BUNKC:12-40	14797507	668.358

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

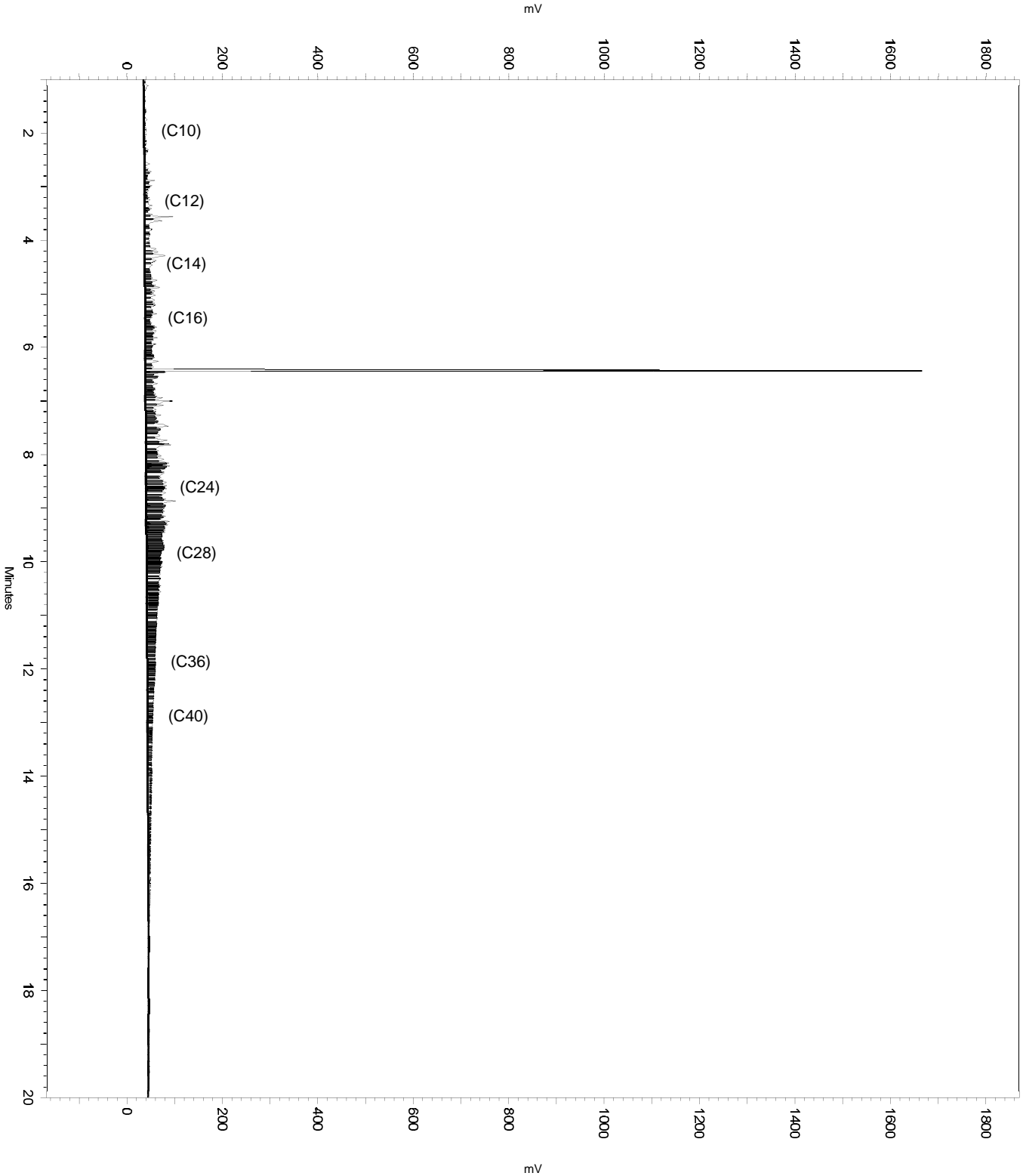
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.385	6.62	0
No	Split Peak	6.463	0	0

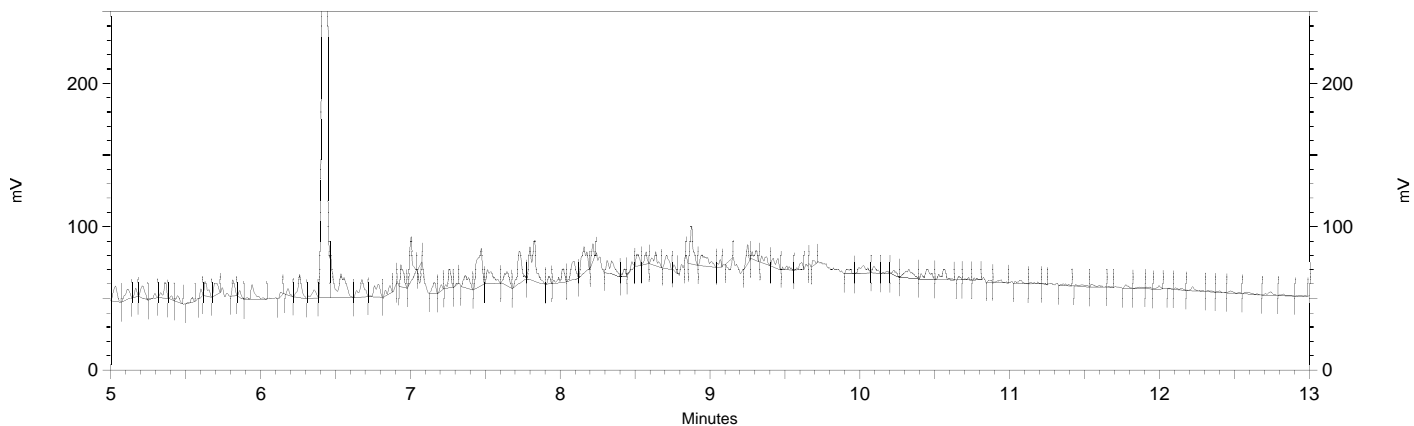
Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b020
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/26/2019 8:14:36 PM
Analysis Date: 4/29/2019 9:51:05 AM
Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 8:14:36 PM
 Analysis Date: 4/29/2019 9:50:22 AM
 Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.438	2497813	50.416
Hexacosane	9.132	11007	0.269



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off      0          2          0
Yes Valley to Valley     0          20         0
Yes Shoulder Sensitivity 0          20         500
  
```

Manual Integration Fixes

```

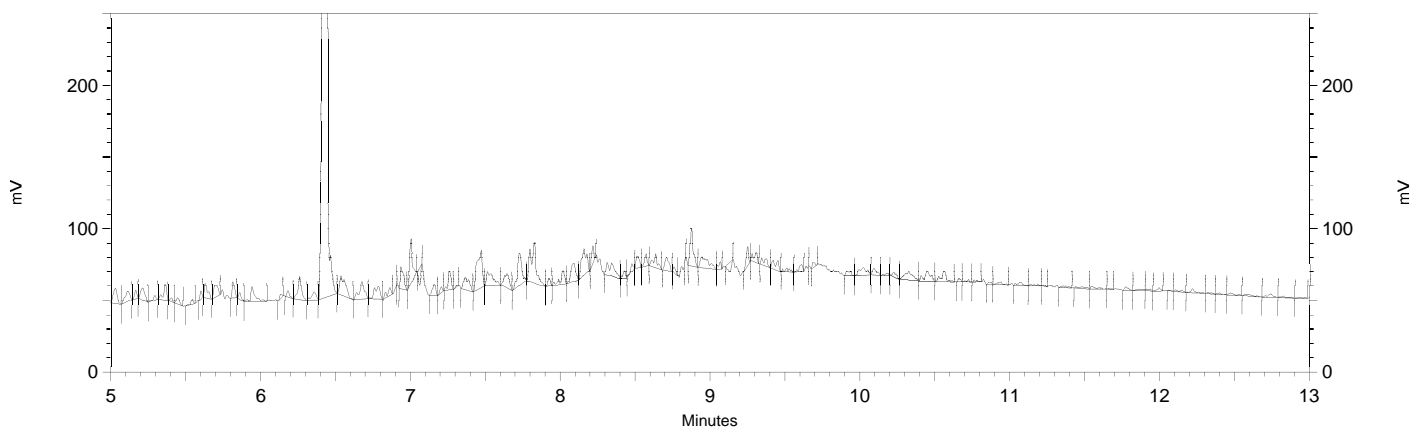
=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b020
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.385     6.62      0
Yes Split Peak          6.463     0          0
  
```

Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b020
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\116.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/26/2019 8:14:36 PM
 Analysis Date: 4/29/2019 9:50:03 AM
 Instrument: GC14B Vial: 20 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.438	2522951	50.924
Hexacosane	9.132	11007	0.269



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\116b020
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

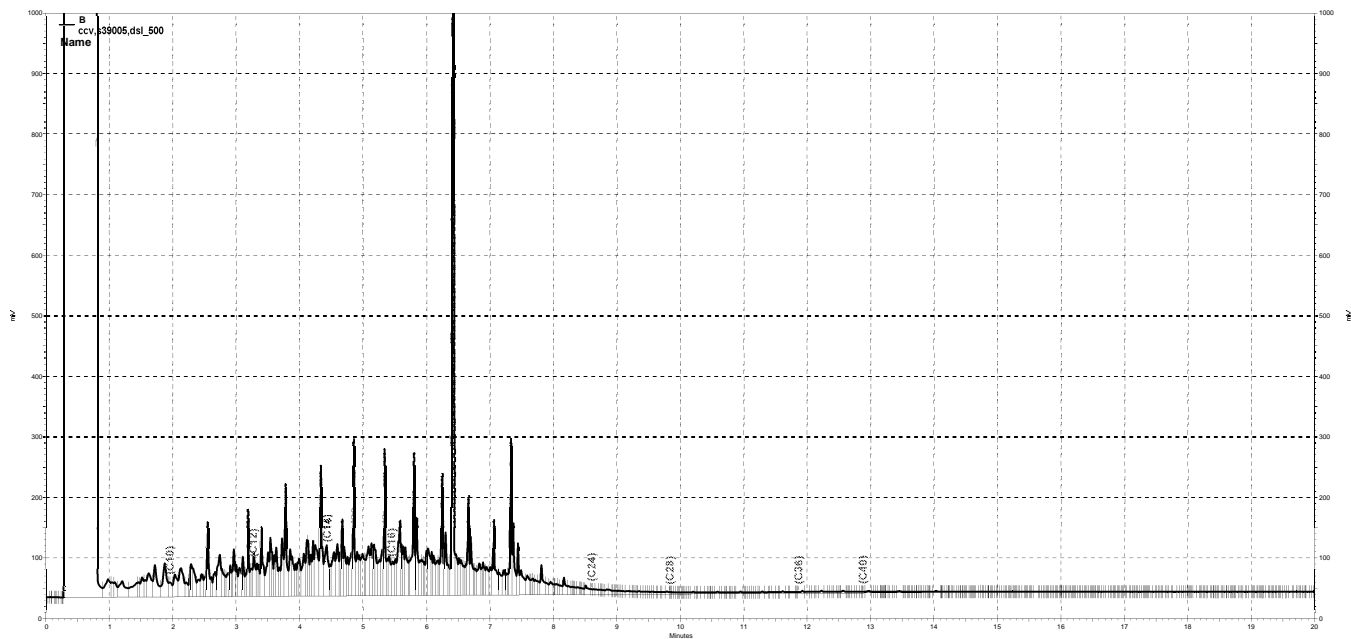
ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 229171804004 File : 119_004 Time : 29-APR-2019 08:48
 Standards: S39005

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	41834	500.0	544.0	mg/L	9	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49581	50.00	50.04	mg/L	0	15	

TKY 04/29/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 04/29/19 Reviewer: EAH Date: 04/29/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b004, B

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 8:48:17 AM
 Analysis Date: 4/29/2019 9:56:31 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12249047	329.036
DSL:10-14	7691516	547.169
DSL:10-22	22841888	610.862
DSL:10-24	23395874	608.510
DSL:10-28	23790908	607.135
DSL:12-24	20490082	609.187
DSL:12-28	20885116	607.605
DSL:14-24	16155758	624.659
DSL:16-24	11969468	673.249
MO:22-32	1370075	48.139
MO:24-36	791851	26.330
MO:28-40	473955	23.577
BUNKC:10-40	24234638	1057.358
BUNKC:12-40	21328846	963.358

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

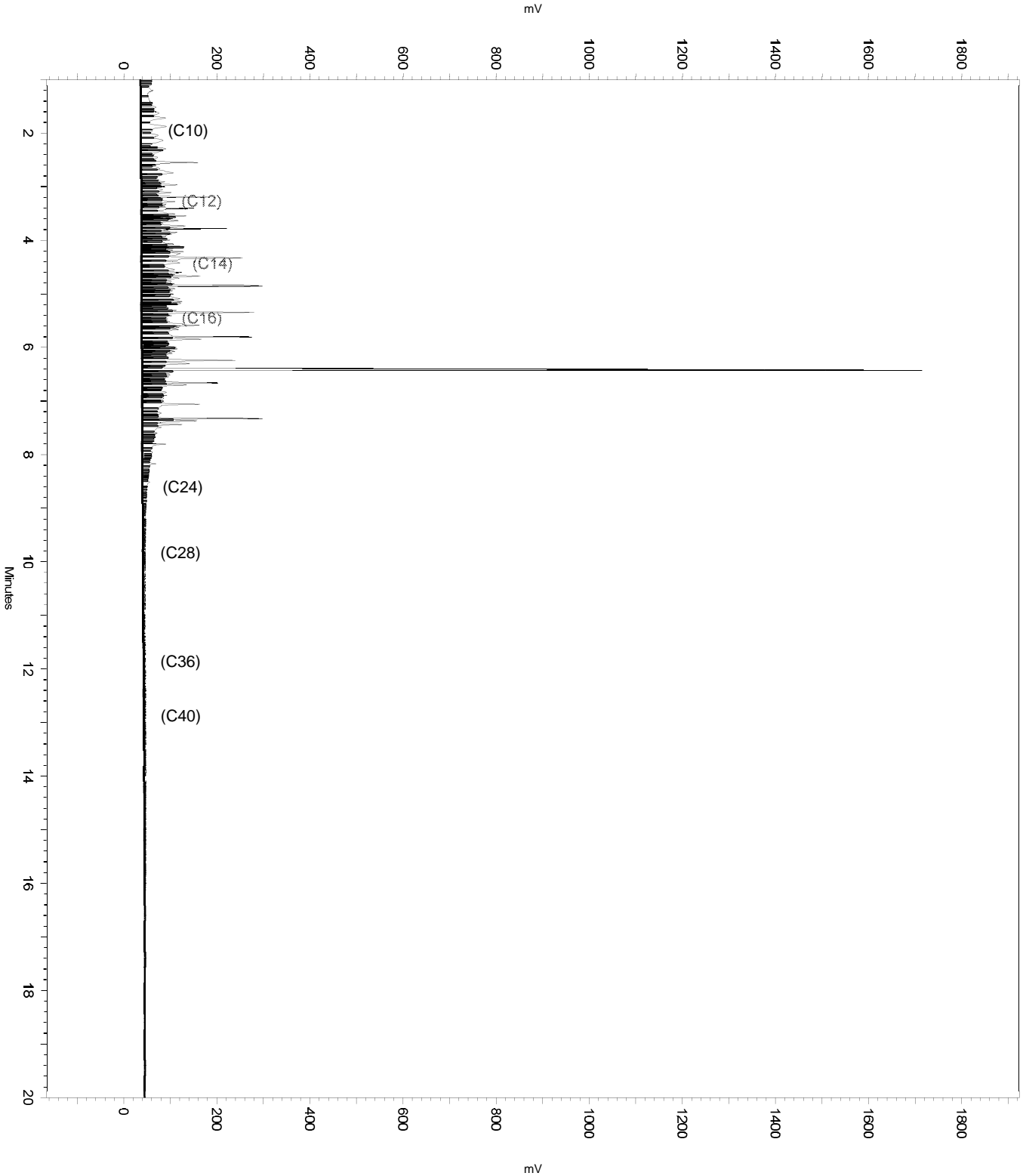
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.371	6.597	0
No	Split Peak	6.452	0	0
Yes	Move BL Stop	11.447	16.518	0

Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 8:48:17 AM
Analysis Date: 4/29/2019 9:56:31 AM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 8:48:17 AM
 Analysis Date: 4/29/2019 9:56:20 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12109379	325.284
DSL:10-14	7609113	541.307
DSL:10-22	22518966	602.226
DSL:10-24	23012090	598.528
DSL:10-28	23279114	594.074
DSL:12-24	20138950	598.748
DSL:12-28	20405974	593.666
DSL:14-24	15851102	612.879
DSL:16-24	11715198	658.947
MO:22-32	1043874	36.678
MO:24-36	407999	13.566
MO:28-40	81287	4.044
BUNKC:10-40	23346208	1018.596
BUNKC:12-40	20473068	924.705

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

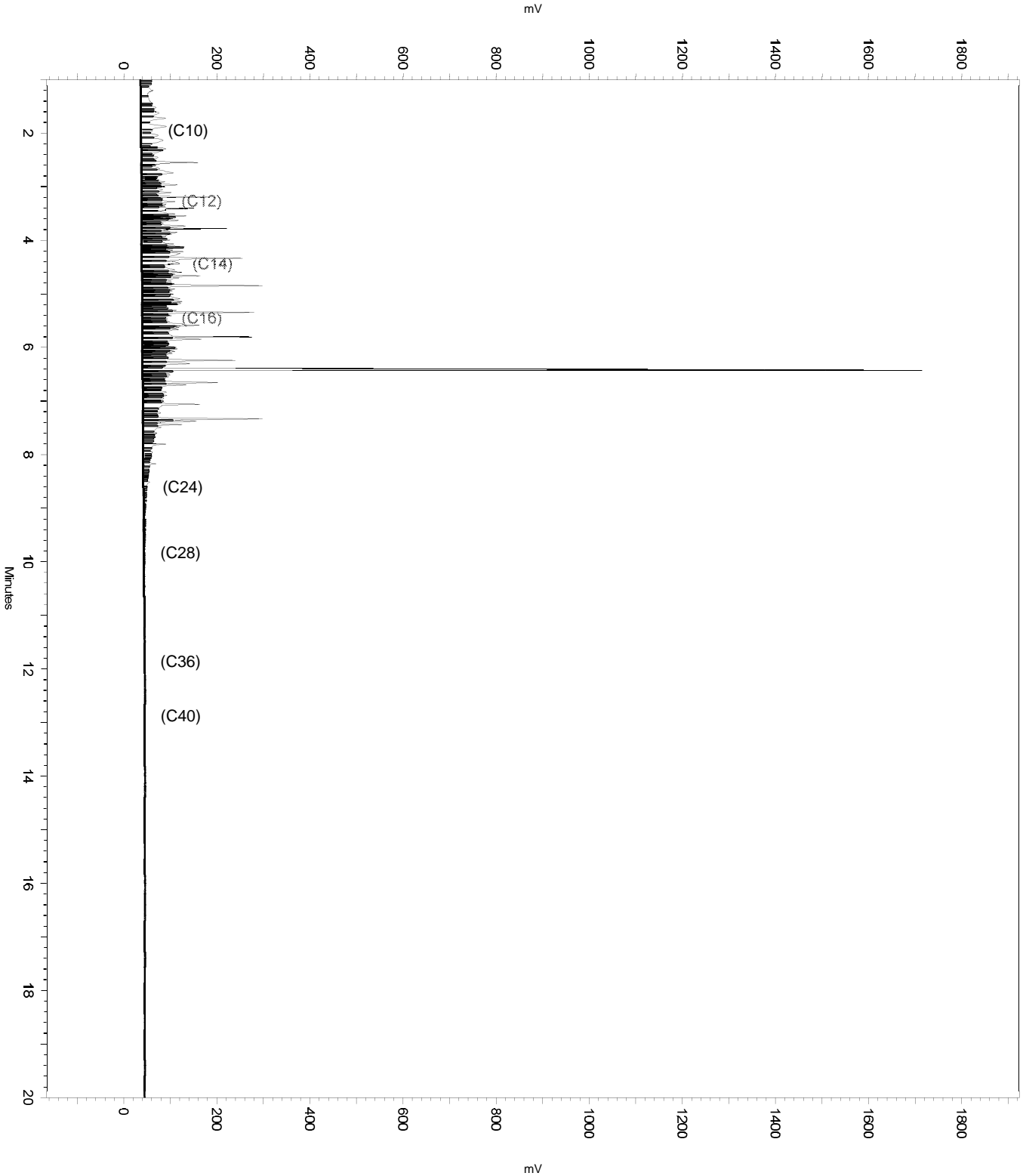
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.371	6.597	0
No	Split Peak	6.452	0	0

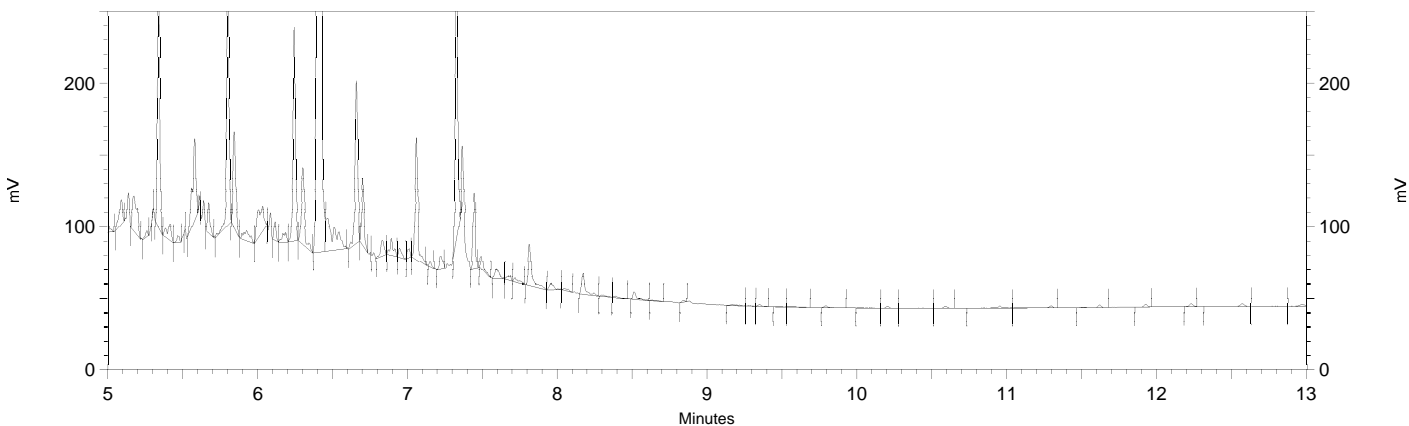
Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 8:48:17 AM
Analysis Date: 4/29/2019 9:56:20 AM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 8:48:17 AM
 Analysis Date: 4/29/2019 9:54:49 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.423	2479062	50.038
Hexacosane	9.173	2566	0.063



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

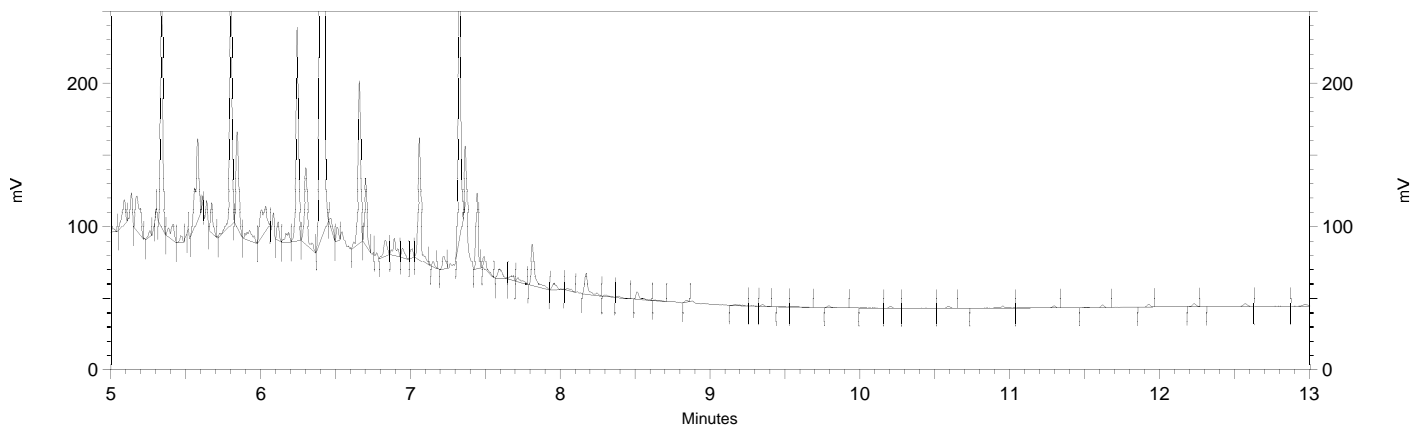
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.371	6.597	0
Yes	Split Peak	6.452	0	0

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 8:48:17 AM
 Analysis Date: 4/29/2019 9:54:35 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.423	2428743	49.022
Hexacosane	9.173	2566	0.063



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b004
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

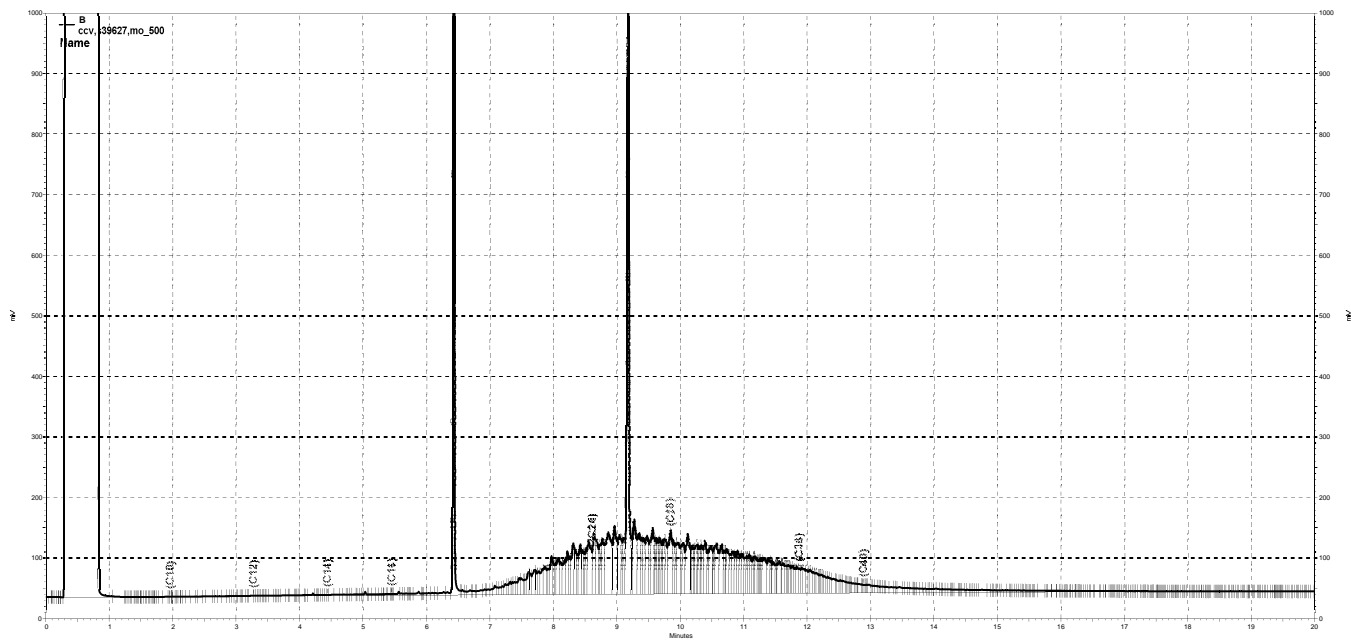
ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229171804005 File : 119_005 Time : 29-APR-2019 09:16
 Standards: S39627

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229137260003	05-APR-2019	30074	30312	500.0	504.0	mg/L	1	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49235	50.00	49.69	mg/L	-1	15	

TKY 04/29/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 04/29/19 Reviewer: EAH Date: 04/29/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b005, B

Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 9:16:00 AM
 Analysis Date: 4/29/2019 9:56:52 AM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	173971	4.673
DSL:10-14	70555	5.019
DSL:10-22	4301432	115.033
DSL:10-24	6977282	181.474
DSL:10-28	15404247	393.111
DSL:12-24	6967883	207.161
DSL:12-28	15394848	447.879
DSL:14-24	6918137	267.488
DSL:16-24	6819800	383.595
MO:22-32	16399293	576.206
MO:24-36	17215952	572.448
MO:28-40	10174875	506.145
BUNKC:10-40	24906530	1086.673
BUNKC:12-40	24897130	1124.528

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

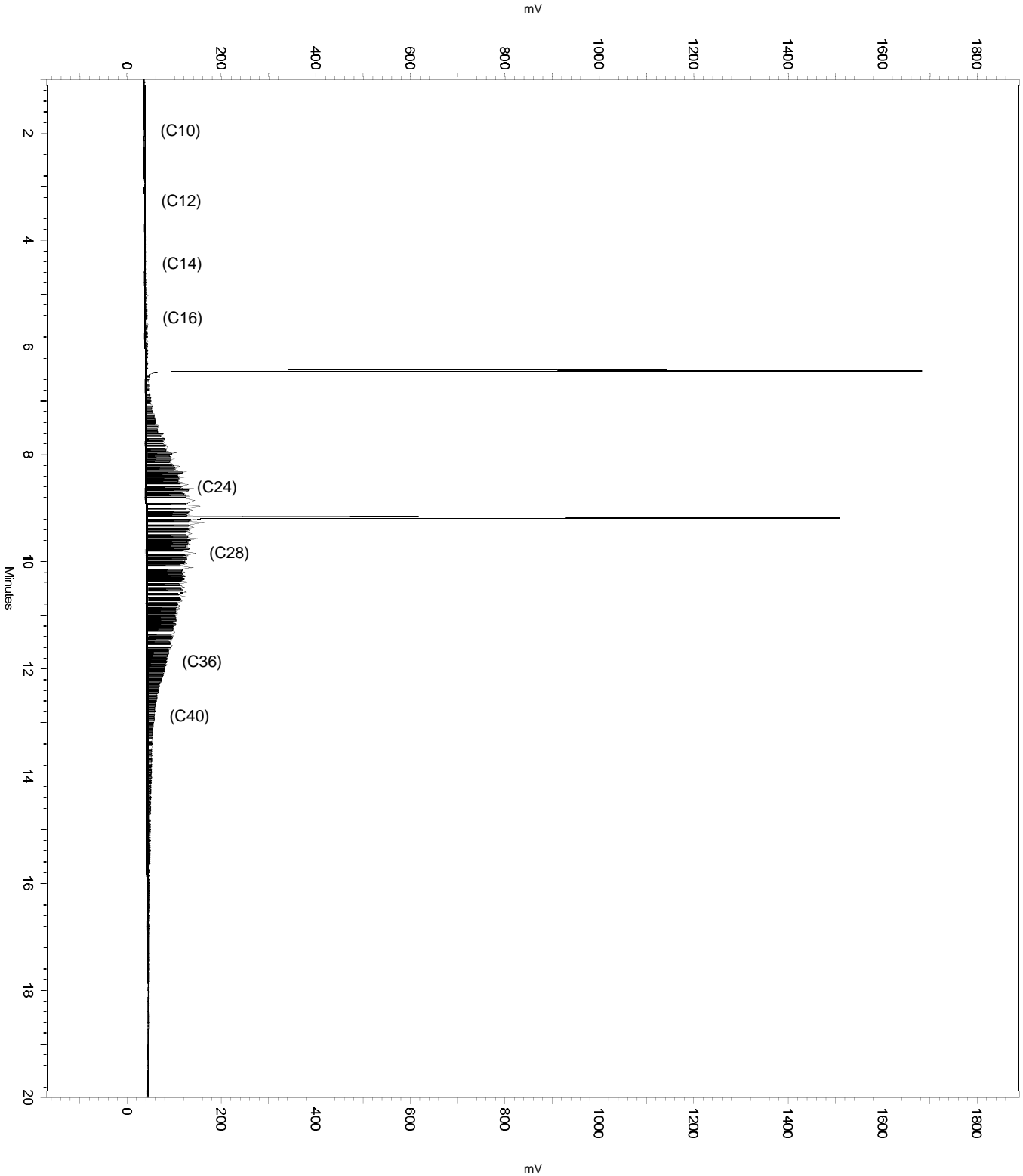
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.382	6.629	0
No	Split Peak	6.51	0	0
No	Manual Peak	9.129	9.403	0
No	Split Peak	9.211	0	0
Yes	Move BL Stop	13.817	17.879	0

Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 9:16:00 AM
Analysis Date: 4/29/2019 9:56:52 AM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 9:16:00 AM
 Analysis Date: 4/29/2019 9:56:40 AM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	69283	1.861
DSL:10-14	33676	2.396
DSL:10-22	3883812	103.865
DSL:10-24	6429744	167.233
DSL:10-28	14602704	372.656
DSL:12-24	6420666	190.892
DSL:12-28	14593626	424.569
DSL:14-24	6399639	247.441
DSL:16-24	6365546	358.044
MO:22-32	15715727	552.188
MO:24-36	16372145	544.390
MO:28-40	9283231	461.791
BUNKC:10-40	23243948	1014.135
BUNKC:12-40	23234872	1049.448

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

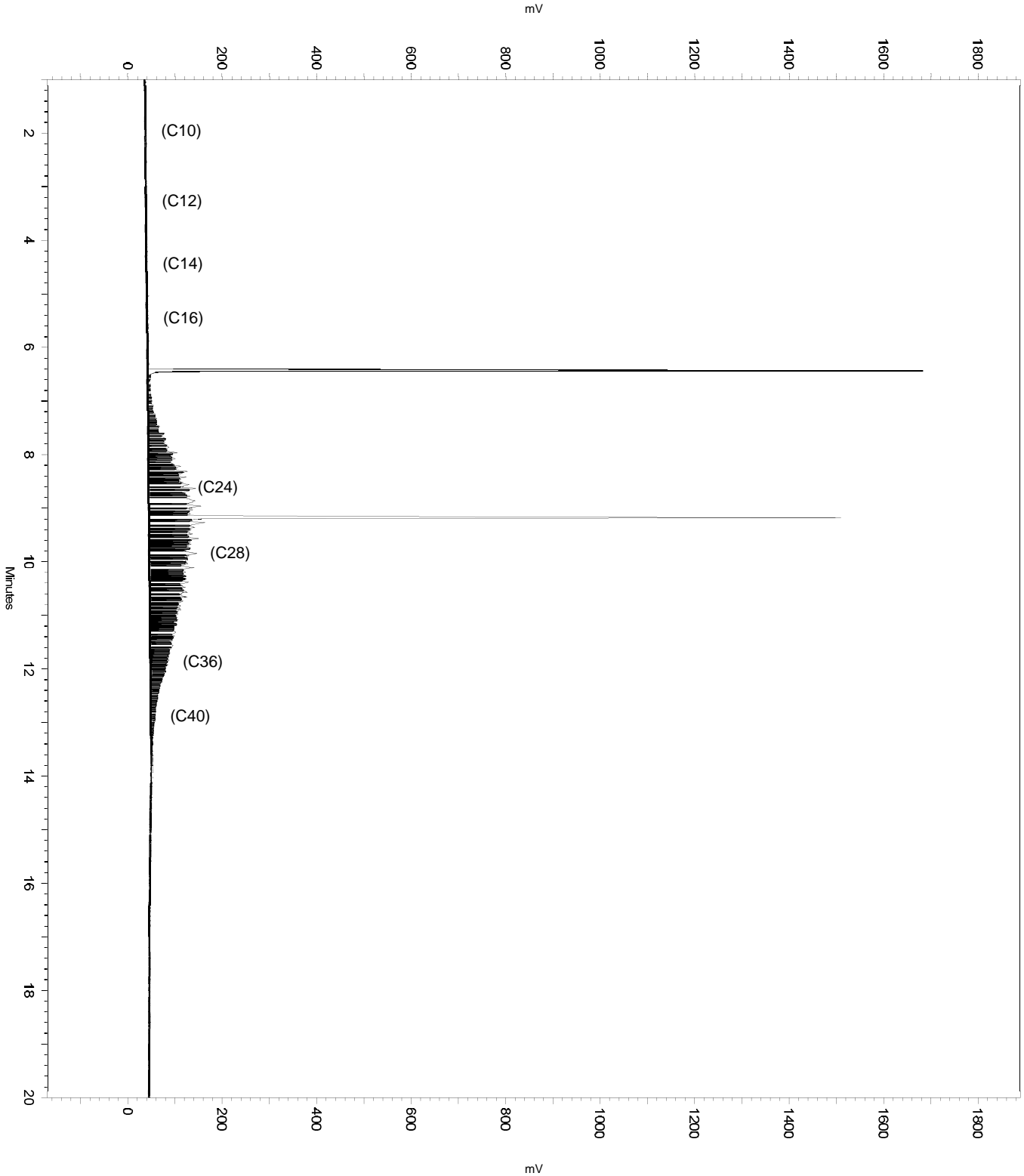
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.382	6.629	0
No	Split Peak	6.51	0	0
No	Manual Peak	9.129	9.403	0
No	Split Peak	9.211	0	0

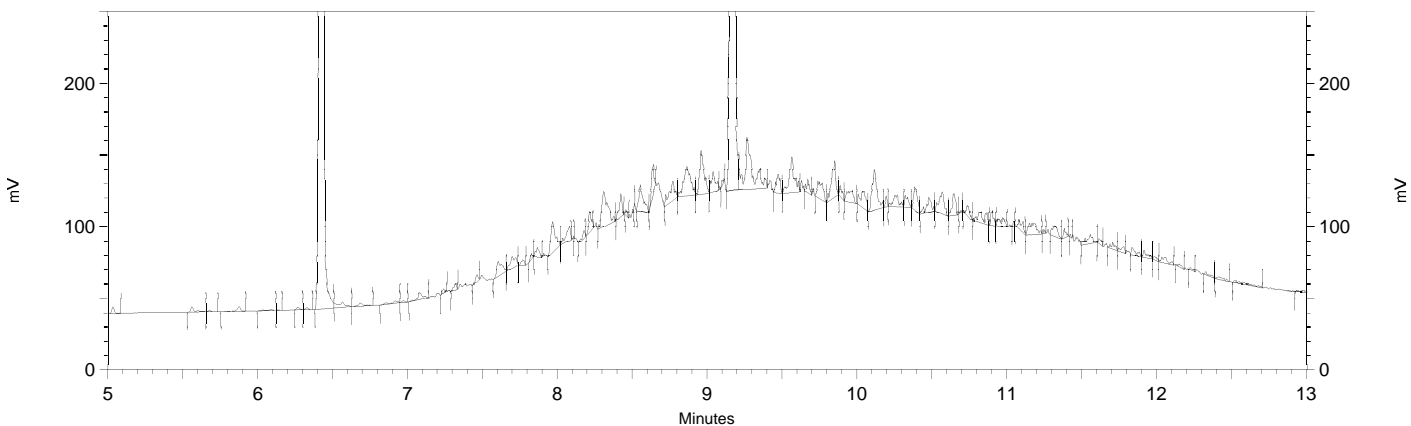
Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 9:16:00 AM
Analysis Date: 4/29/2019 9:56:40 AM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 9:16:00 AM
 Analysis Date: 4/29/2019 9:55:35 AM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.437	2461770	49.689
Hexacosane	9.182	2059714	50.258



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

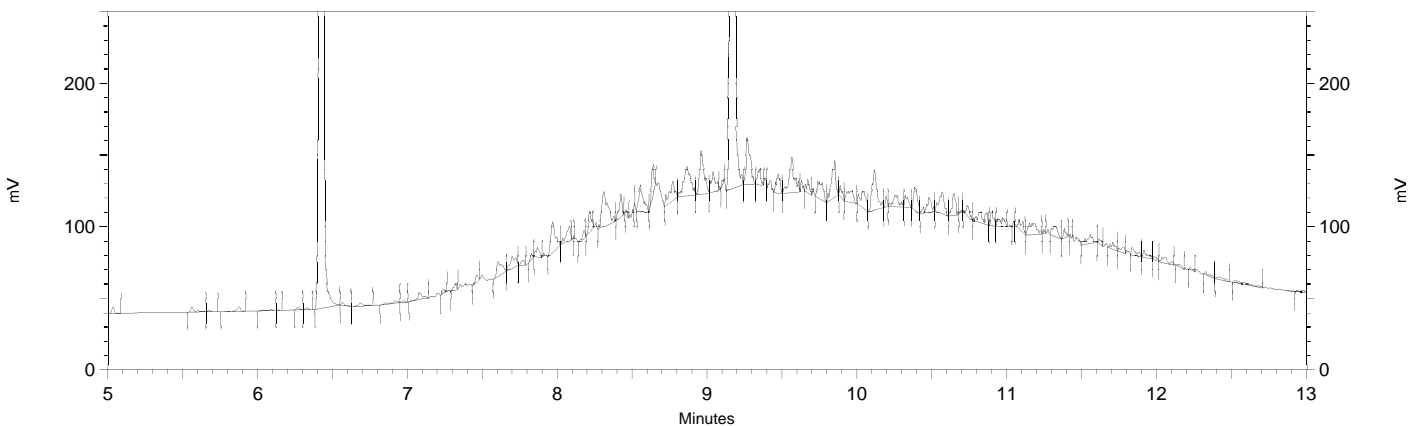
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.382	6.629	0
Yes	Split Peak	6.51	0	0
Yes	Manual Peak	9.129	9.403	0
Yes	Split Peak	9.211	0	0

Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 9:16:00 AM
 Analysis Date: 4/29/2019 9:54:57 AM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.437	2458944	49.632
Hexacosane	9.182	2065582	50.401



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b005
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

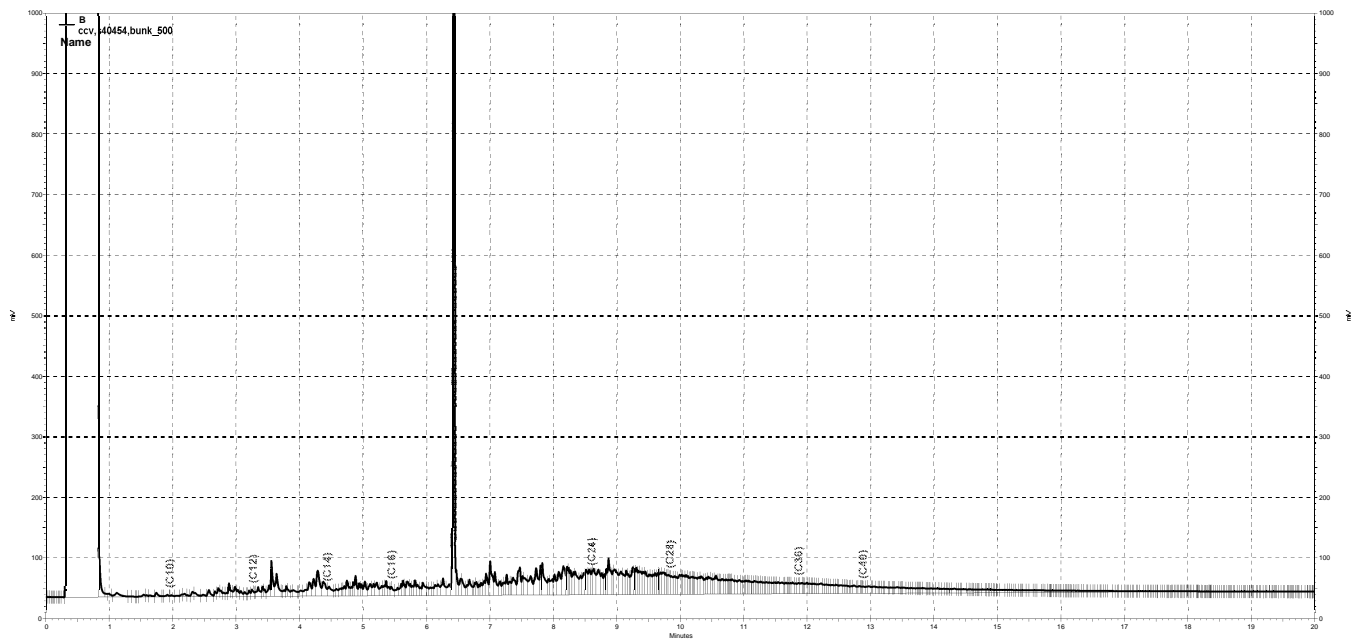
ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
Seqnum : 229171804007 File : 119_007 Time : 29-APR-2019 10:11
Standards: S40454

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	229121391002	25-MAR-2019	22140	24609	500.0	555.8	mg/L	11	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49278	50.00	49.73	mg/L	-1	15	

TKY 04/29/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 04/29/19 Reviewer: EAH Date: 04/29/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b007, B

Sample Name: ccv,s40454,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 10:11:04 AM
 Analysis Date: 4/29/2019 10:35:09 AM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2292795	61.589
DSL:10-14	1426228	101.461
DSL:10-22	7747144	207.182
DSL:10-24	9065262	235.781
DSL:10-28	11664454	297.673
DSL:12-24	8693917	258.477
DSL:12-28	11293109	328.548
DSL:14-24	7877135	304.568
DSL:16-24	6925123	389.519
MO:22-32	5778311	203.027
MO:24-36	5633083	187.306
MO:28-40	3816374	189.844
BUNKC:10-40	15139923	660.556
BUNKC:12-40	14768578	667.052

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

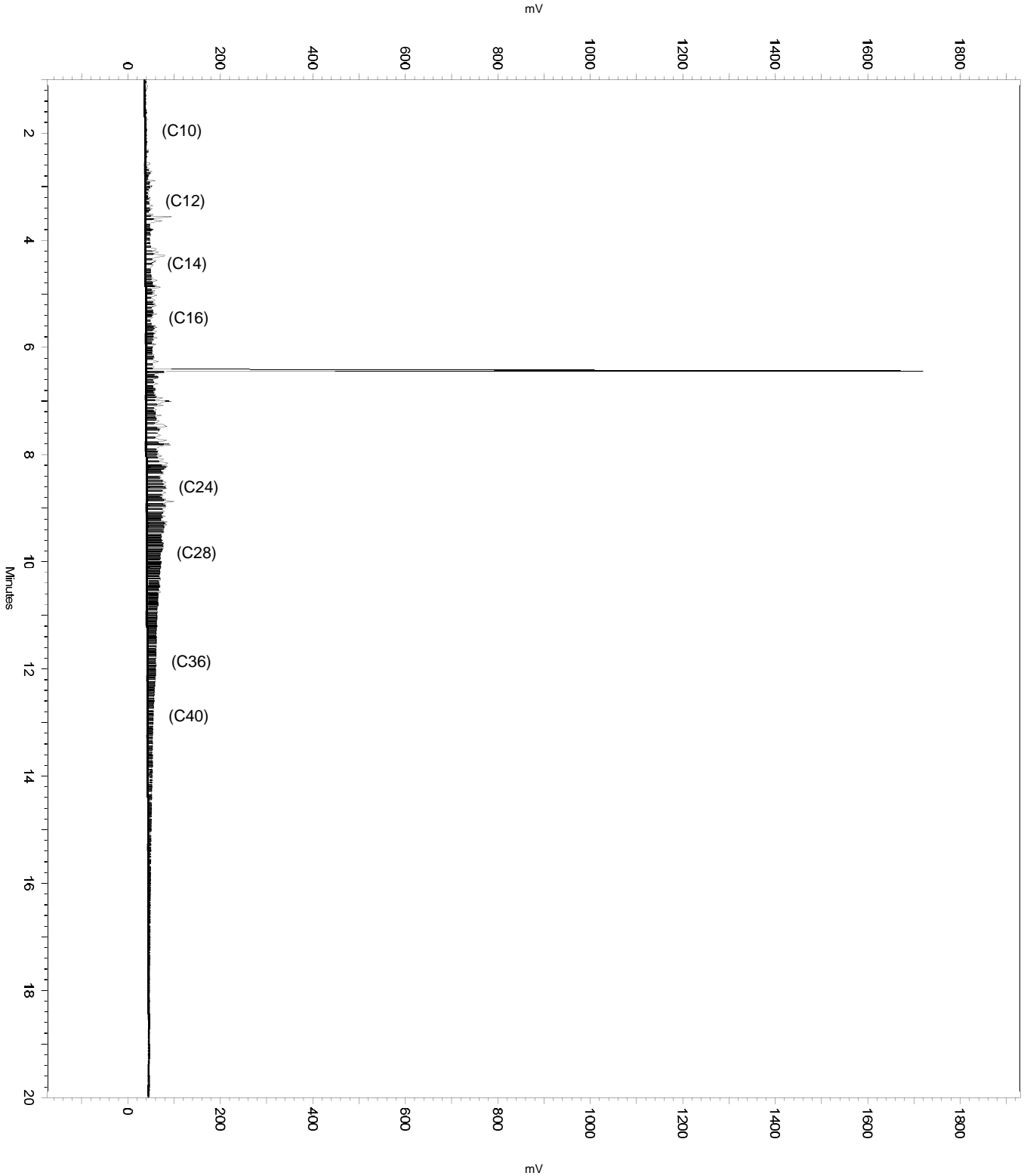
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	0.935	18.941	0
No	Manual Peak	6.387	6.607	0
No	Split Peak	6.466	0	0

Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b007
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 10:11:04 AM
Analysis Date: 4/29/2019 10:35:09 AM
Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s40454,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 10:11:04 AM
 Analysis Date: 4/29/2019 10:34:56 AM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1462636	39.290
DSL:10-14	980848	69.777
DSL:10-22	5419027	144.921
DSL:10-24	6184978	160.867
DSL:10-28	7623694	194.554
DSL:12-24	5935295	176.461
DSL:12-28	7374011	214.530
DSL:14-24	5384388	208.186
DSL:16-24	4798801	269.919
MO:22-32	2854855	100.308
MO:24-36	2222472	73.899
MO:28-40	814767	40.530
BUNKC:10-40	8270964	360.863
BUNKC:12-40	8021281	362.297

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

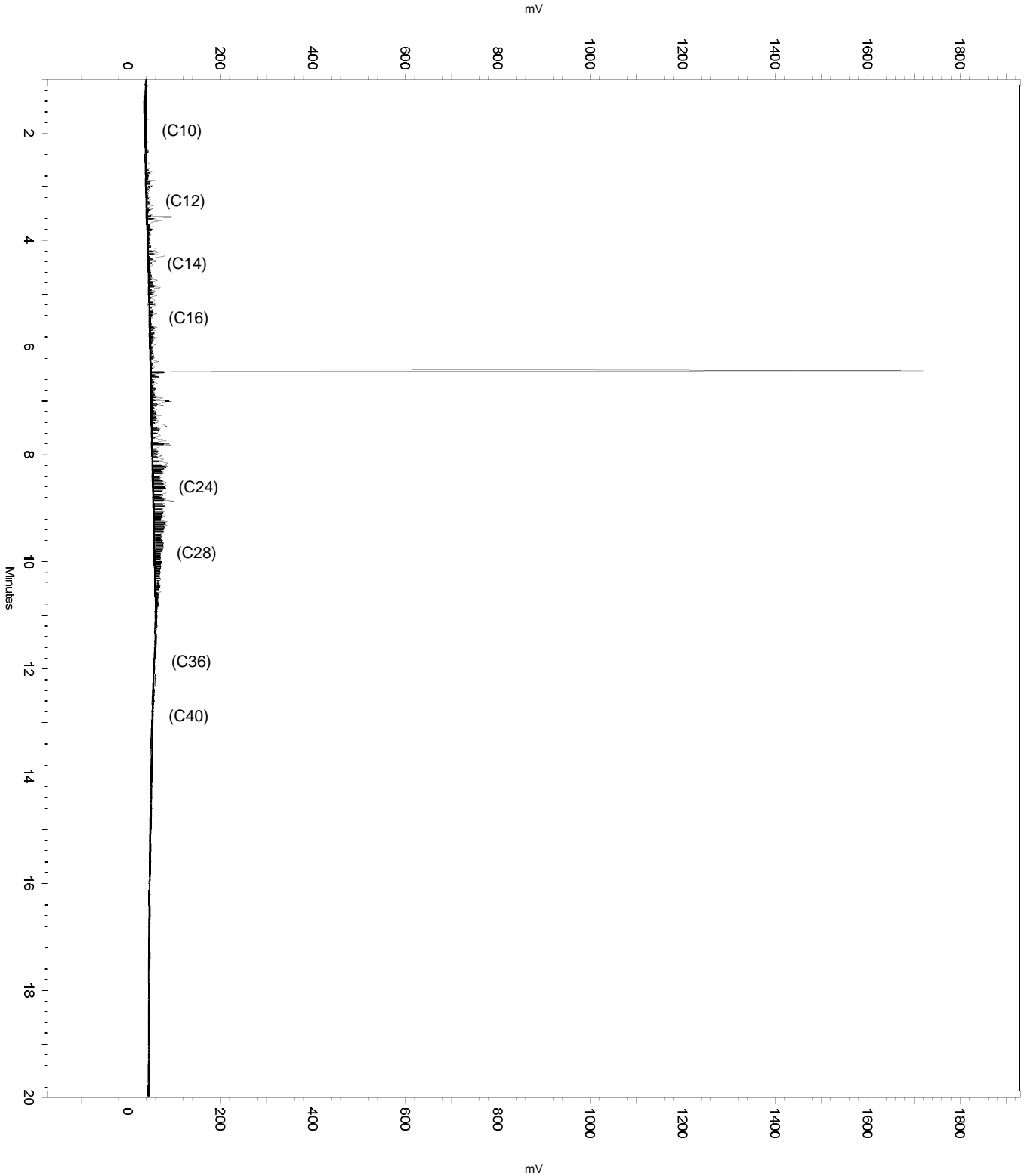
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.387	6.607	0
No	Split Peak	6.466	0	0

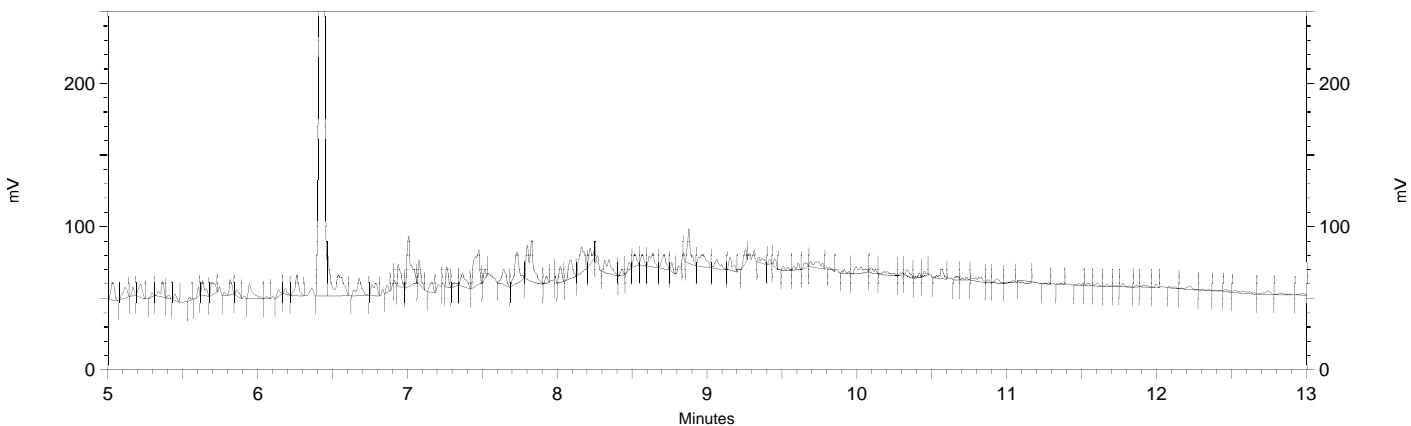
Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b007
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 10:11:04 AM
Analysis Date: 4/29/2019 10:34:56 AM
Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 10:11:04 AM
 Analysis Date: 4/29/2019 10:34:38 AM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.440	2463912	49.732
Hexacosane	9.152	17175	0.419



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b007

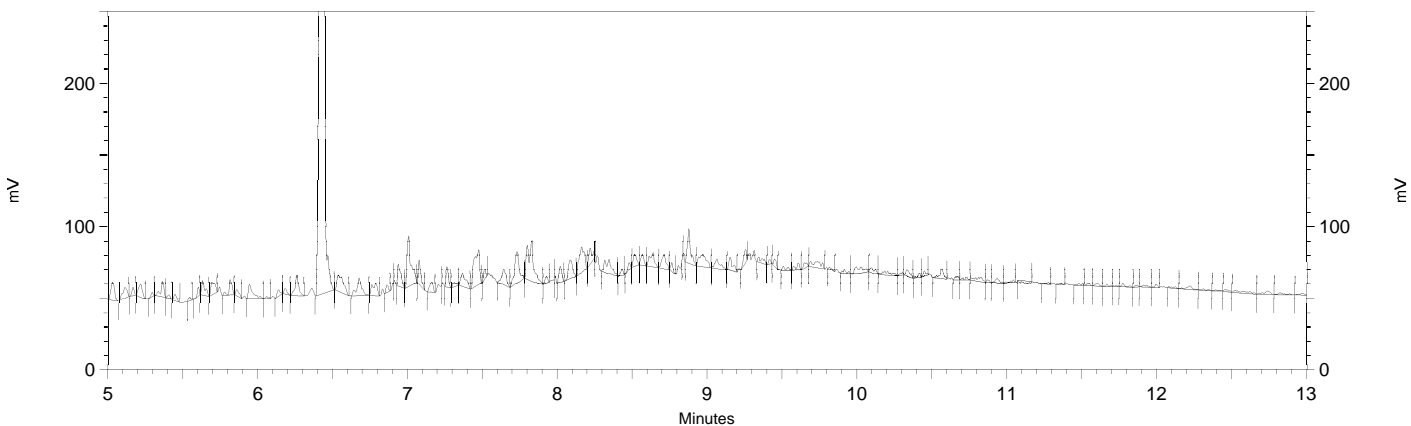
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.387	6.607	0
Yes	Split Peak	6.466	0	0

Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 10:11:04 AM
 Analysis Date: 4/29/2019 10:34:23 AM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.440	2484466	50.147
Hexacosane	9.152	17175	0.419



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off     0          2          0
Yes Valley to Valley    0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b007
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

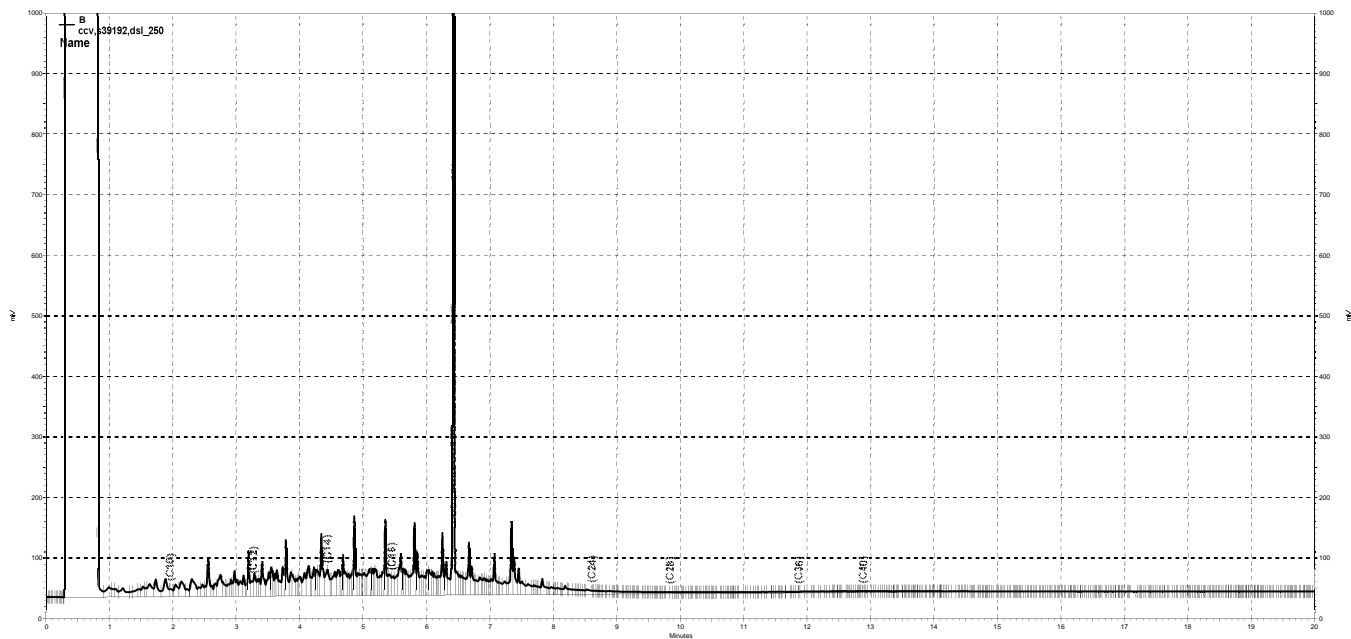
ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_250 IDF : 1.0
 Seqnum : 229171804018 File : 119_018 Time : 29-APR-2019 15:14
 Standards: S39192

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	44212	250.0	287.5	mg/L	15	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	46824	50.00	47.26	mg/L	-5	15	

CRC 04/29/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 04/29/19 Reviewer: EAH Date: 04/29/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b018, B

Sample Name: **ccv,s39192,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b018
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 3:14:27 PM
 Analysis Date: 4/29/2019 4:41:03 PM
 Instrument: GC14B Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	6325004	169.903
DSL:10-14	3922074	279.014
DSL:10-22	13035393	348.606
DSL:10-24	13394267	348.375
DSL:10-28	13662437	348.660
DSL:12-24	12045350	358.118
DSL:12-28	12313520	358.234
DSL:14-24	9794804	378.714
DSL:16-24	7550709	424.706
MO:22-32	891627	31.328
MO:24-36	590072	19.620
MO:28-40	418812	20.834
BUNKC:10-40	14050896	613.041
BUNKC:12-40	12701979	573.710

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

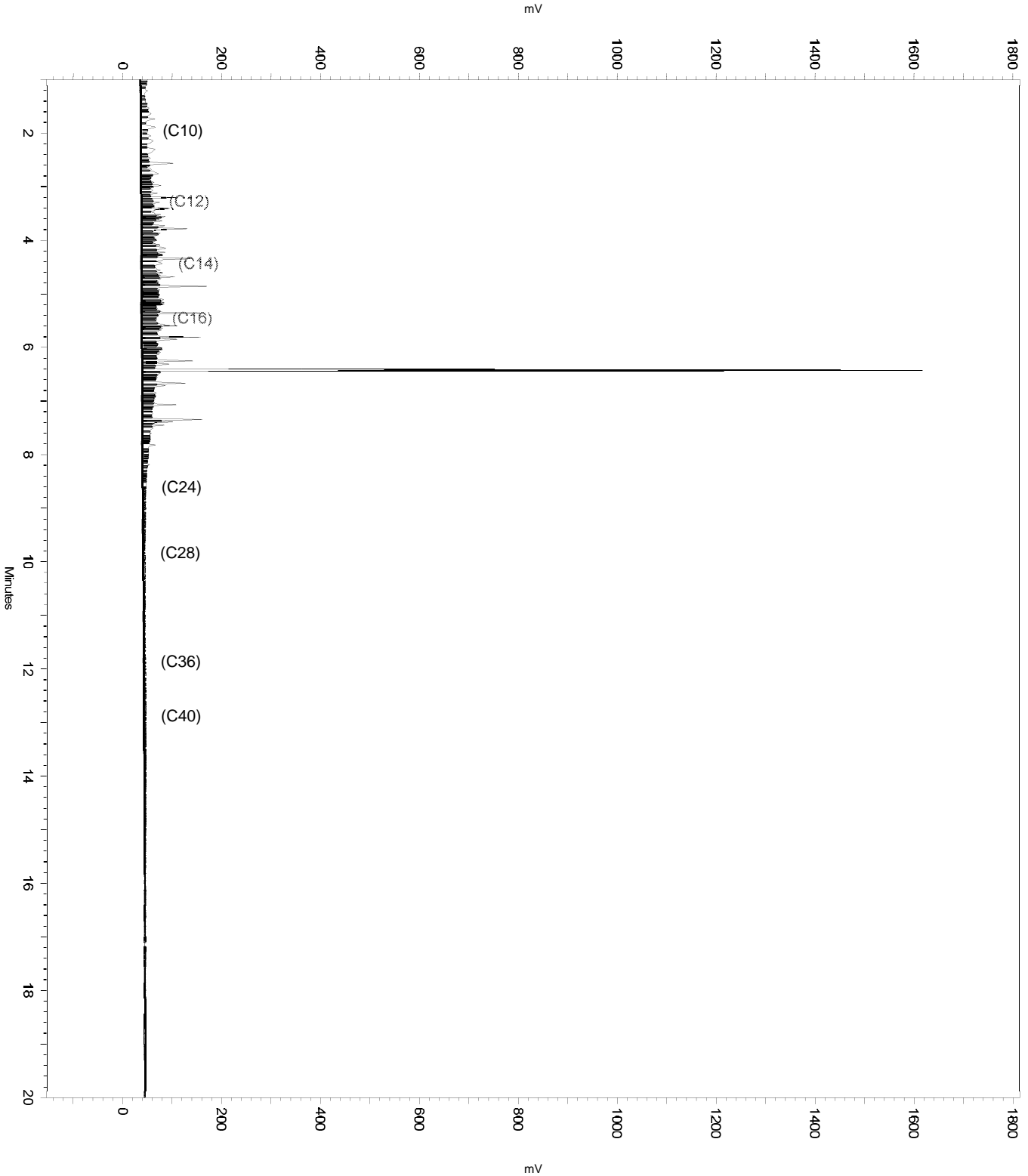
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.375	6.621	0
No	Split Peak	6.461	0	0
Yes	Move BL Stop	9.972	16.153	0

Sample Name: ccv,s39192,dsl_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b018
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 3:14:27 PM
Analysis Date: 4/29/2019 4:41:03 PM
Instrument: GC14B Vial: 18 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39192,dsl_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b018
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 3:14:27 PM
 Analysis Date: 4/29/2019 4:40:46 PM
 Instrument: GC14B Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	6149761	165.196
DSL:10-14	3819112	271.689
DSL:10-22	12630365	337.775
DSL:10-24	12905524	335.663
DSL:10-28	13013051	332.088
DSL:12-24	11593880	344.696
DSL:12-28	11701407	340.426
DSL:14-24	9402382	363.541
DSL:16-24	7222570	406.249
MO:22-32	499321	17.544
MO:24-36	168312	5.597
MO:28-40	48168	2.396
BUNKC:10-40	13057488	569.699
BUNKC:12-40	11745844	530.524

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

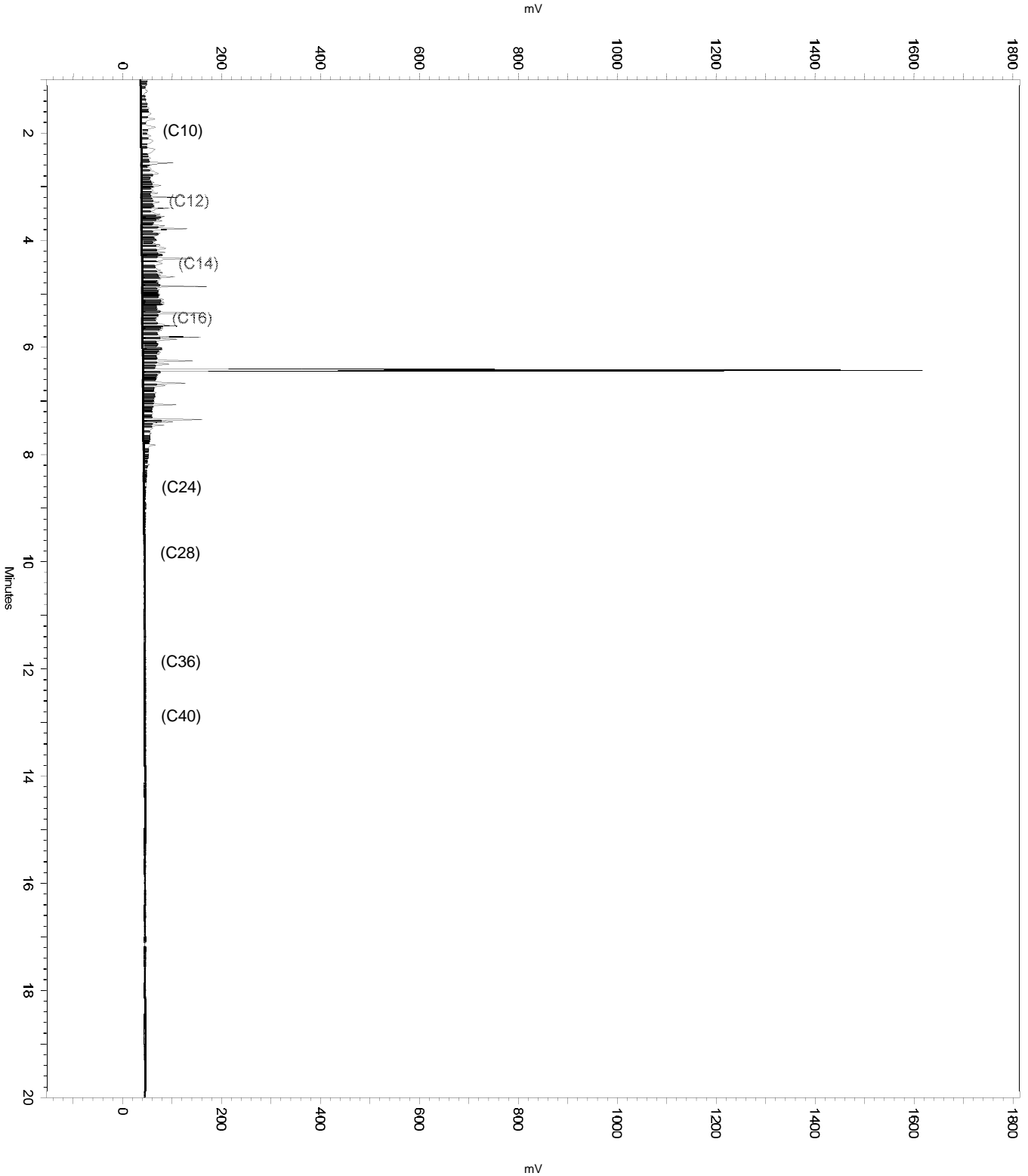
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Force Peak Stop     2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b018
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Peak          6.375     6.621     0
No Split Peak           6.461     0          0
  
```

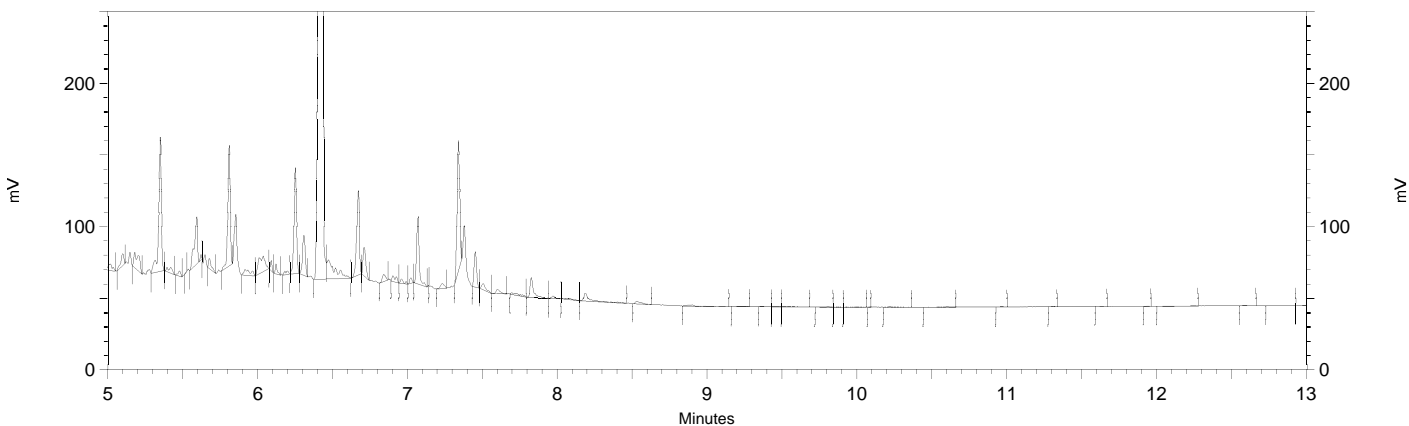
Sample Name: ccv,s39192,dsl_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b018
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 3:14:27 PM
Analysis Date: 4/29/2019 4:40:46 PM
Instrument: GC14B Vial: 18 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39192,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b018
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 3:14:27 PM
 Analysis Date: 4/29/2019 4:38:04 PM
 Instrument: GC14B Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.432	2341219	47.256
Hexacosane	9.205	972	0.024



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

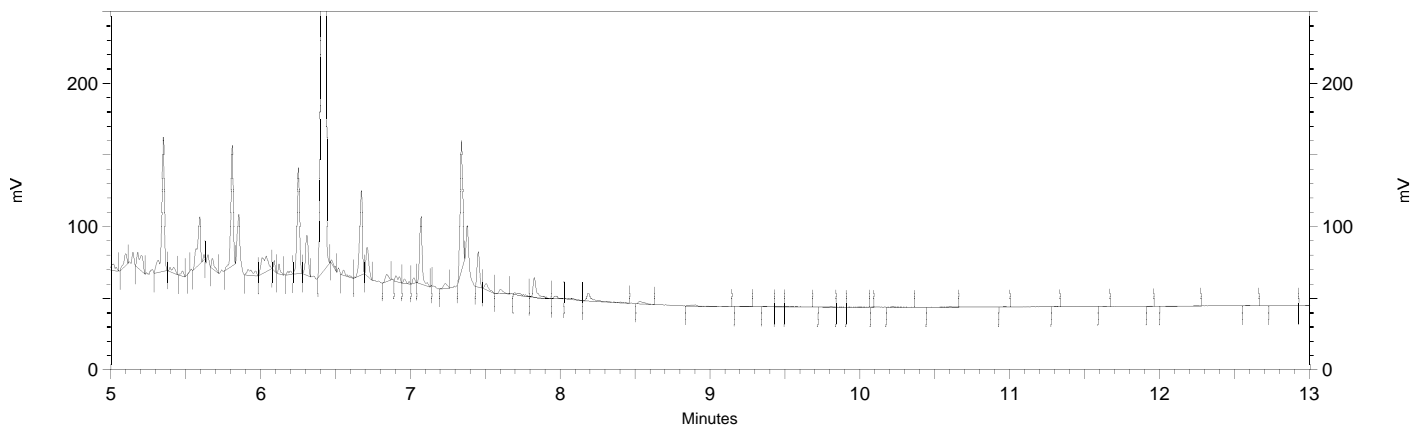
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.375	6.621	0
Yes	Split Peak	6.461	0	0

Sample Name: **ccv,s39192,dsl_250**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b018
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 3:14:27 PM
 Analysis Date: 4/29/2019 4:37:44 PM
 Instrument: GC14B Vial: 18 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.432	2313779	46.702
Hexacosane	9.205	972	0.024



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

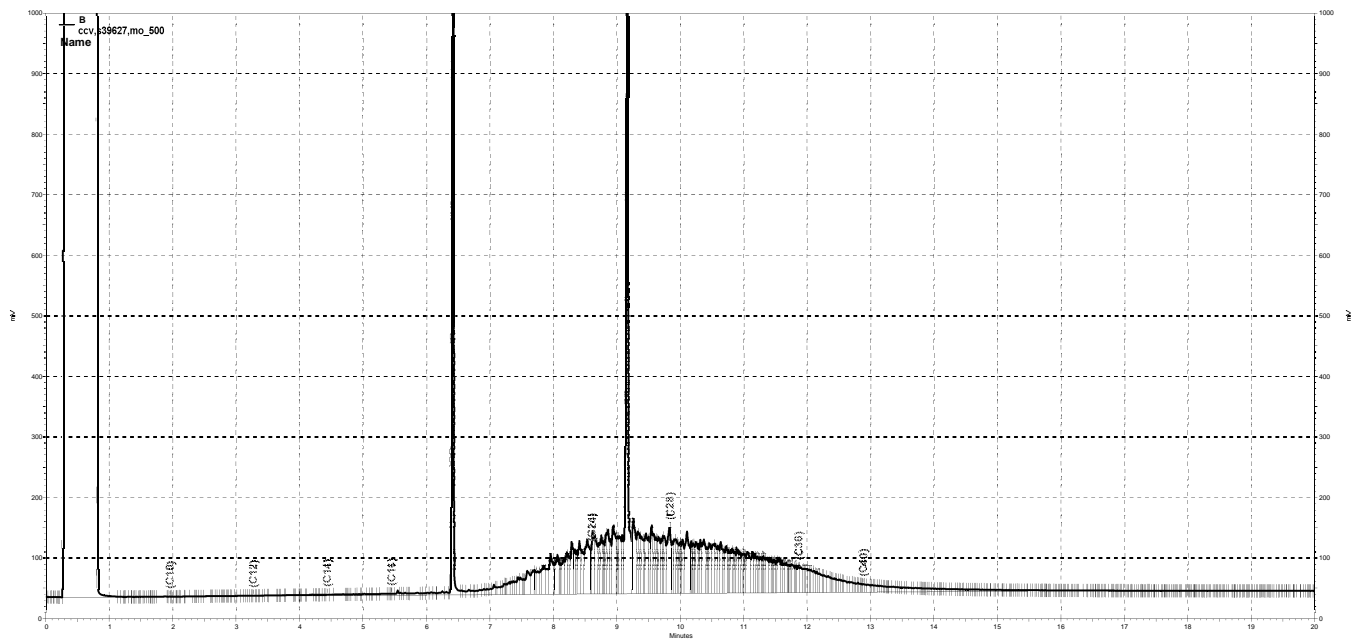
```

=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off      0          2     0
Yes Valley to Valley     0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b018
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
None
  
```

— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b019, B

Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 3:41:44 PM
 Analysis Date: 4/29/2019 4:41:32 PM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	255479	6.863
DSL:10-14	130286	9.268
DSL:10-22	4469159	119.519
DSL:10-24	7157662	186.166
DSL:10-28	15917683	406.213
DSL:12-24	7122679	211.763
DSL:12-28	15882700	462.072
DSL:14-24	7041257	272.249
DSL:16-24	6906615	388.478
MO:22-32	17212164	604.767
MO:24-36	17888764	594.820
MO:28-40	10474410	521.046
BUNKC:10-40	25910900	1130.494
BUNKC:12-40	25875916	1168.736

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

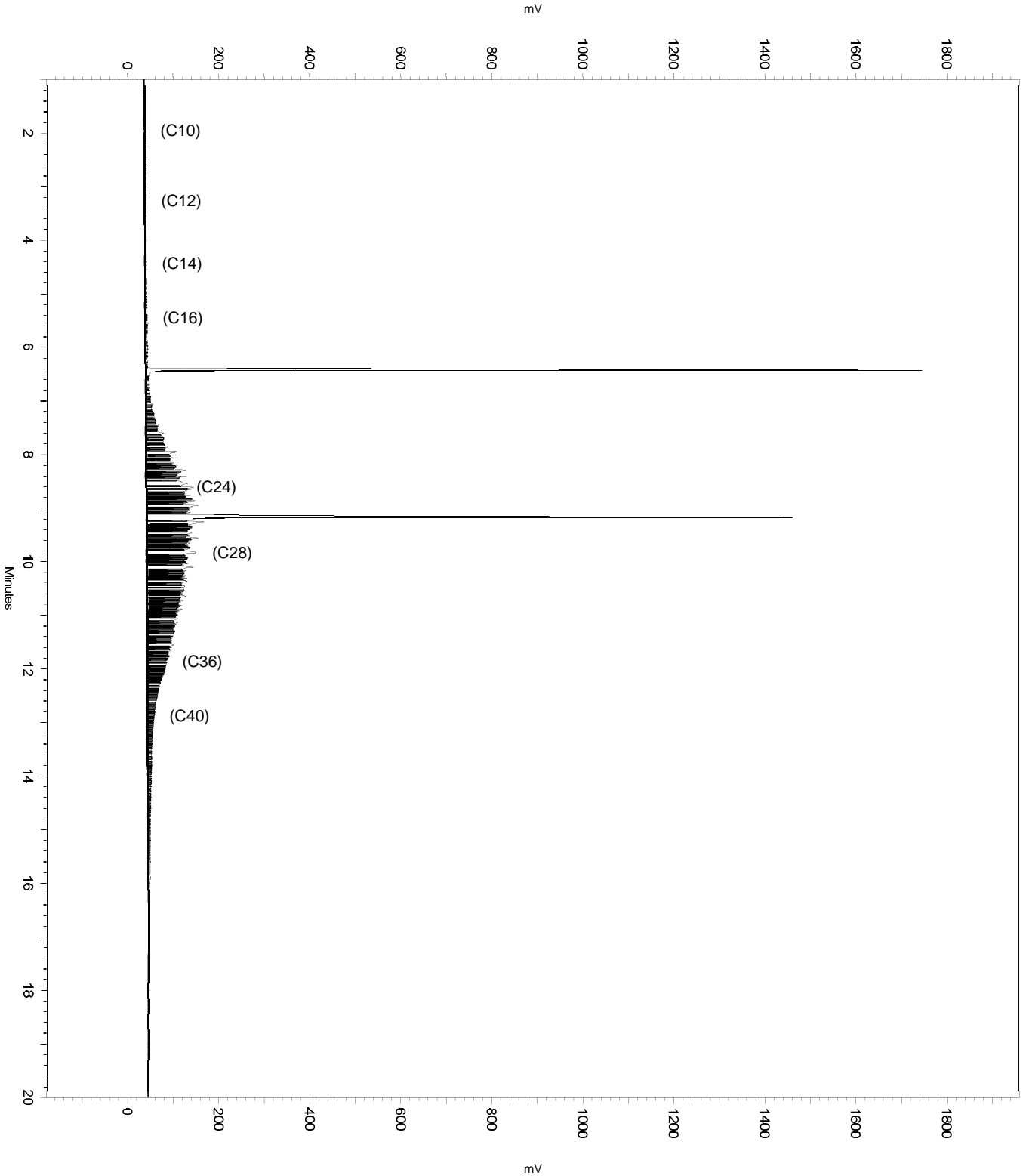
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Split Peak	6.537	0	0
No	Split Peak	9.2	0	0
Yes	Move BL Stop	16.107	16.706	0

Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b019
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 3:41:44 PM
Analysis Date: 4/29/2019 4:41:32 PM
Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 3:41:44 PM
 Analysis Date: 4/29/2019 4:41:13 PM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	237402	6.377
DSL:10-14	120663	8.584
DSL:10-22	4418804	118.172
DSL:10-24	7095077	184.538
DSL:10-28	15831397	404.011
DSL:12-24	7062625	209.978
DSL:12-28	15798945	459.635
DSL:14-24	6987272	270.161
DSL:16-24	6861830	385.959
MO:22-32	17147736	602.503
MO:24-36	17812668	592.289
MO:28-40	10395106	517.101
BUNKC:10-40	25747236	1123.353
BUNKC:12-40	25714780	1161.458

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

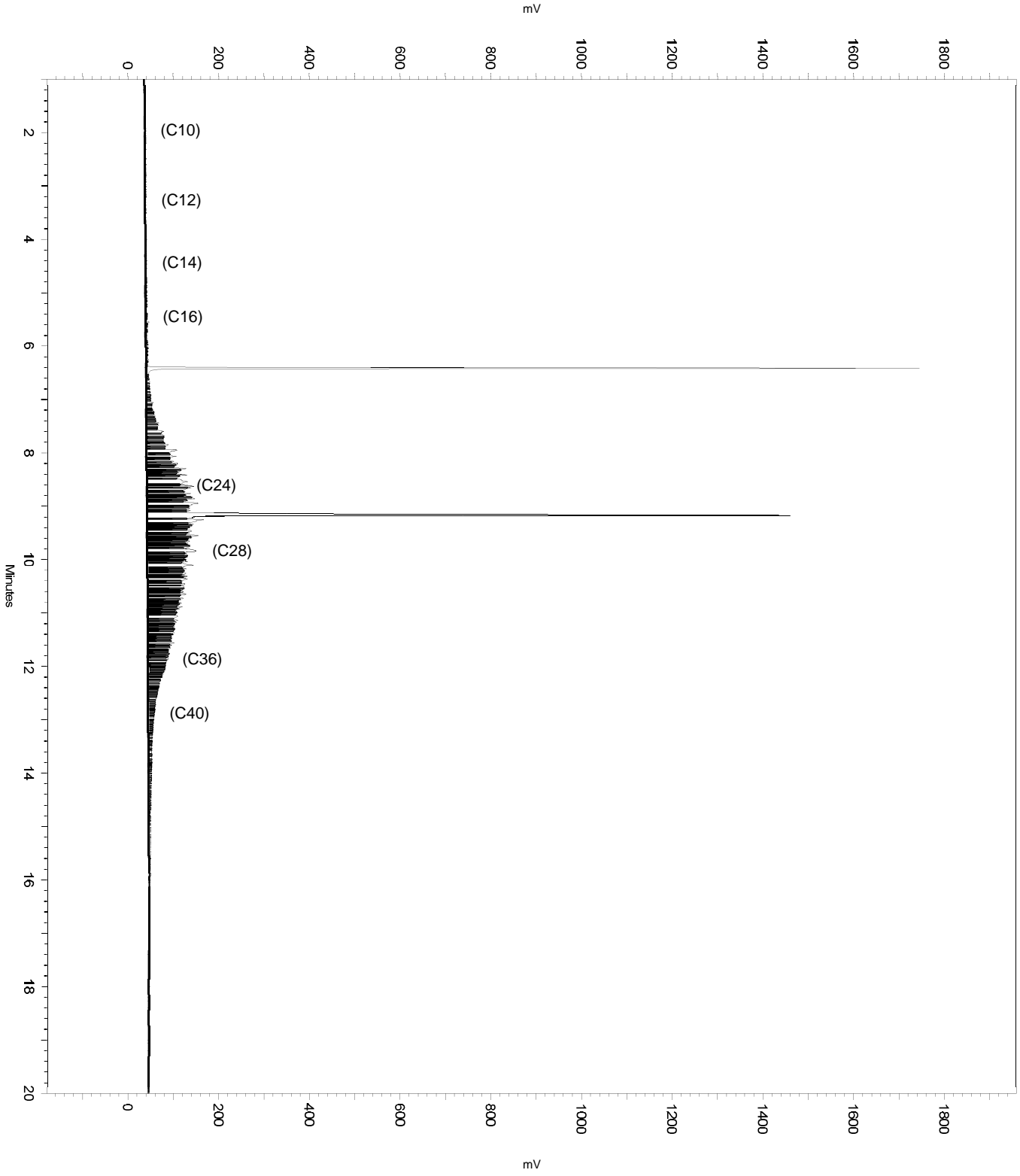
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Split Peak	6.537	0	0
No	Split Peak	9.2	0	0

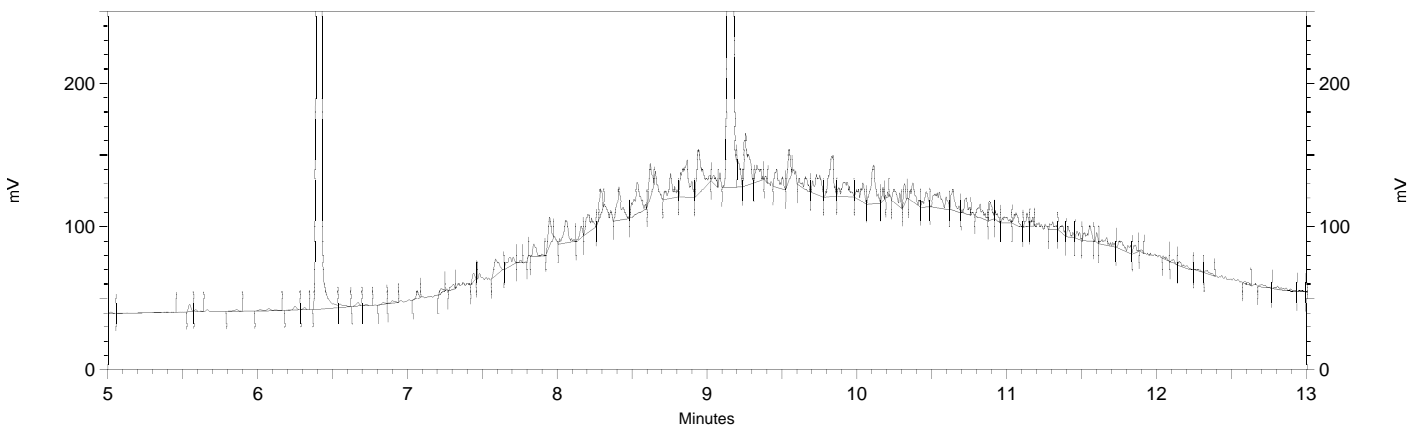
Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b019
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 3:41:44 PM
Analysis Date: 4/29/2019 4:41:13 PM
Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 3:41:44 PM
 Analysis Date: 4/29/2019 4:38:43 PM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.423	2508914	50.640
Hexacosane	9.168	2156226	52.613



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

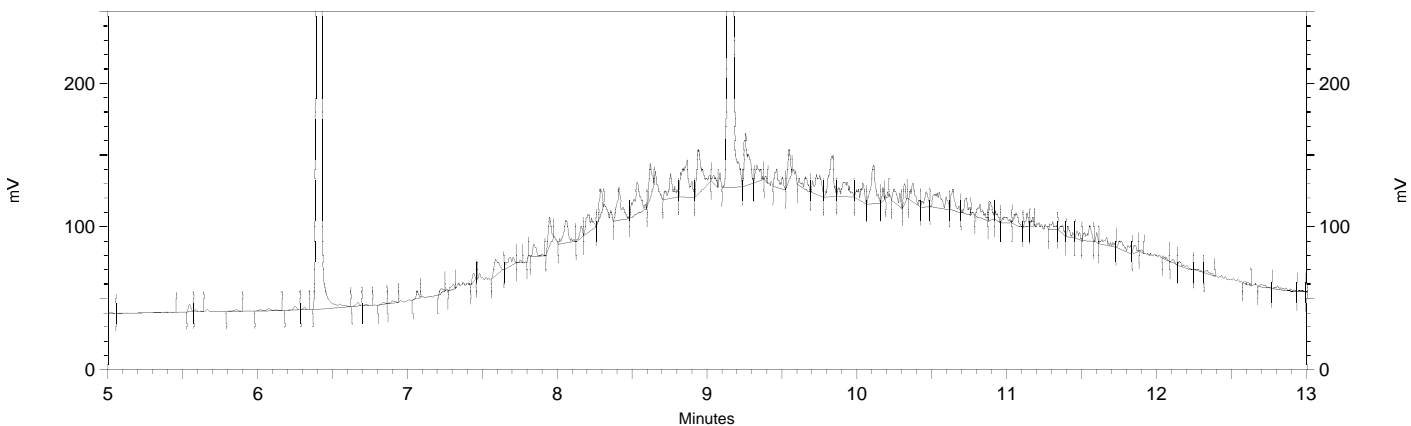
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	6.537	0	0
Yes	Split Peak	9.2	0	0

Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b019
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 3:41:44 PM
 Analysis Date: 4/29/2019 4:38:17 PM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.423	2514365	50.750
Hexacosane	9.168	2181046	53.218



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

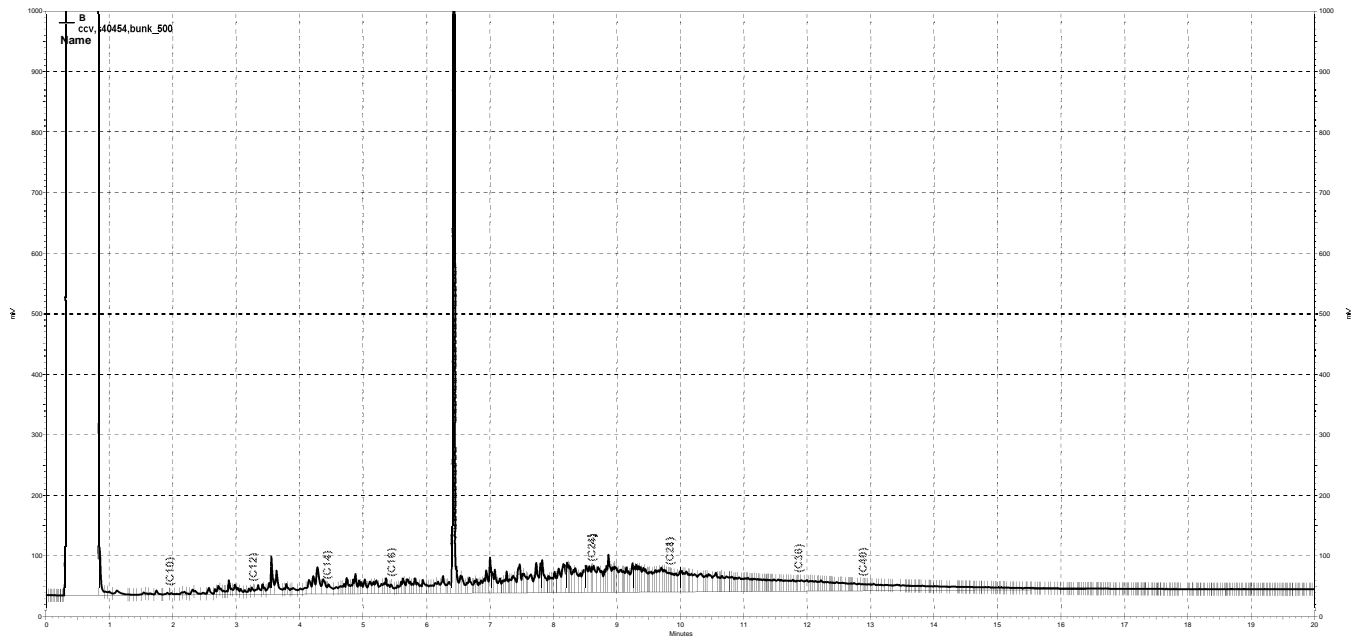
ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
Seqnum : 229171804021 File : 119_021 Time : 29-APR-2019 16:36
Standards: S40454

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	229121391002	25-MAR-2019	22140	24941	500.0	563.3	mg/L	13	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	50986	50.00	51.46	mg/L	3	15	

CRC 04/29/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 04/29/19 Reviewer: EAH Date: 04/29/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b021, B

Sample Name: ccv,s40454,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b021
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 4:36:25 PM
 Analysis Date: 4/29/2019 5:01:39 PM
 Instrument: GC14B Vial: 21 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2312551	62.120
DSL:10-14	1433658	101.989
DSL:10-22	7871338	210.504
DSL:10-24	9216805	239.722
DSL:10-28	11809481	301.374
DSL:12-24	8841293	262.859
DSL:12-28	11433969	332.646
DSL:14-24	8020650	310.117
DSL:16-24	7058578	397.025
MO:22-32	5877826	206.523
MO:24-36	5699014	189.498
MO:28-40	3875154	192.768
BUNKC:10-40	15395444	671.704
BUNKC:12-40	15019932	678.404

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

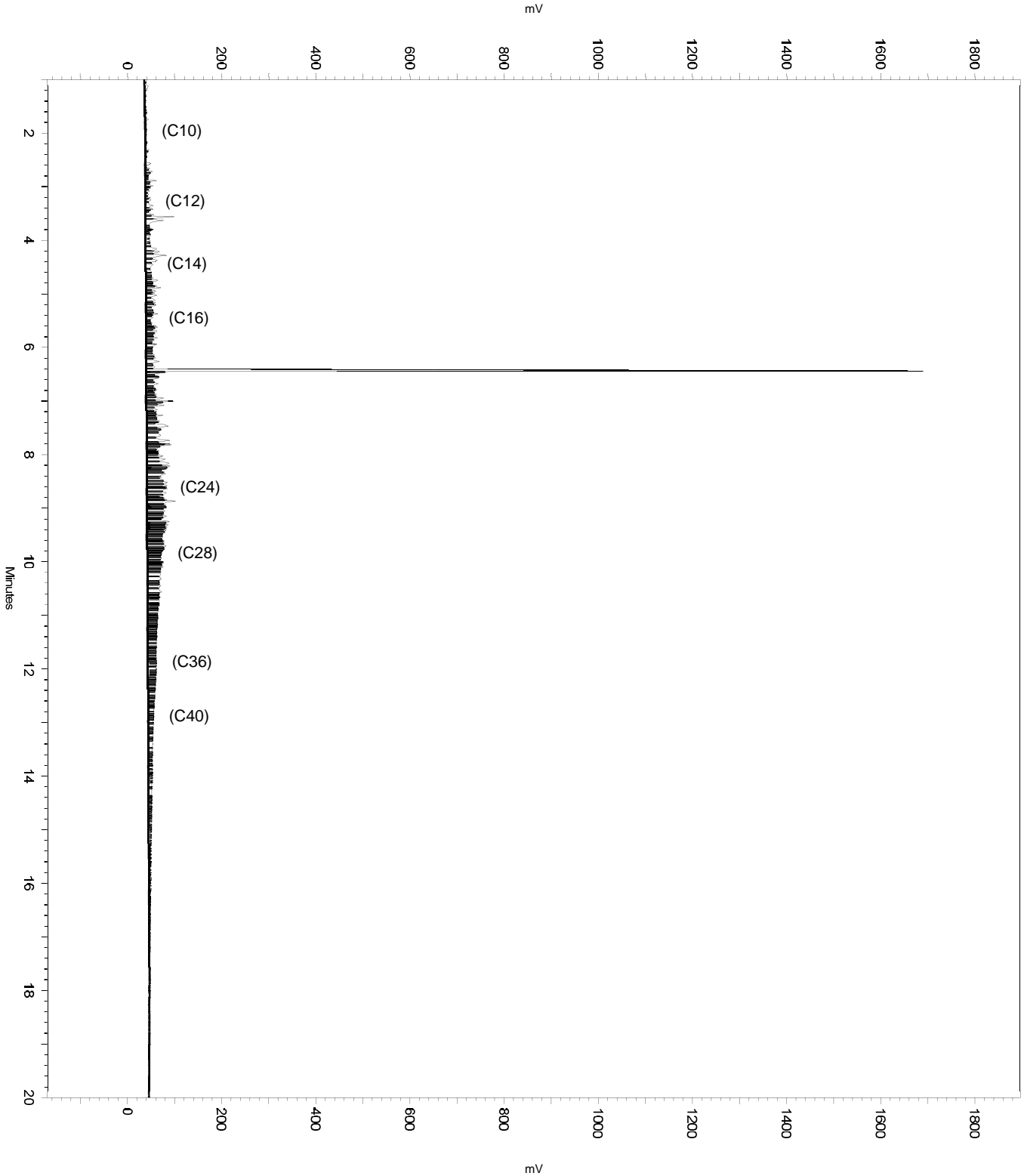
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Force Peak Stop     2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b021
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Move BL Stop        1.428     17.669    0
No Manual Peak          6.387     6.618     0
No Split Peak           6.506     0          0
  
```

Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b021
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 4:36:25 PM
Analysis Date: 4/29/2019 5:01:39 PM
Instrument: GC14B Vial: 21 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s40454,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b021
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 4:36:25 PM
 Analysis Date: 4/29/2019 5:01:04 PM
 Instrument: GC14B Vial: 21 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	1436281	38.582
DSL:10-14	971346	69.101
DSL:10-22	5074310	135.703
DSL:10-24	5496910	142.971
DSL:10-28	6618684	168.906
DSL:12-24	5243913	155.906
DSL:12-28	6365687	185.195
DSL:14-24	4702527	181.822
DSL:16-24	4132780	232.457
MO:22-32	2261073	79.445
MO:24-36	2147322	71.401
MO:28-40	1214646	60.422
BUNKC:10-40	7702011	336.039
BUNKC:12-40	7449014	336.449

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

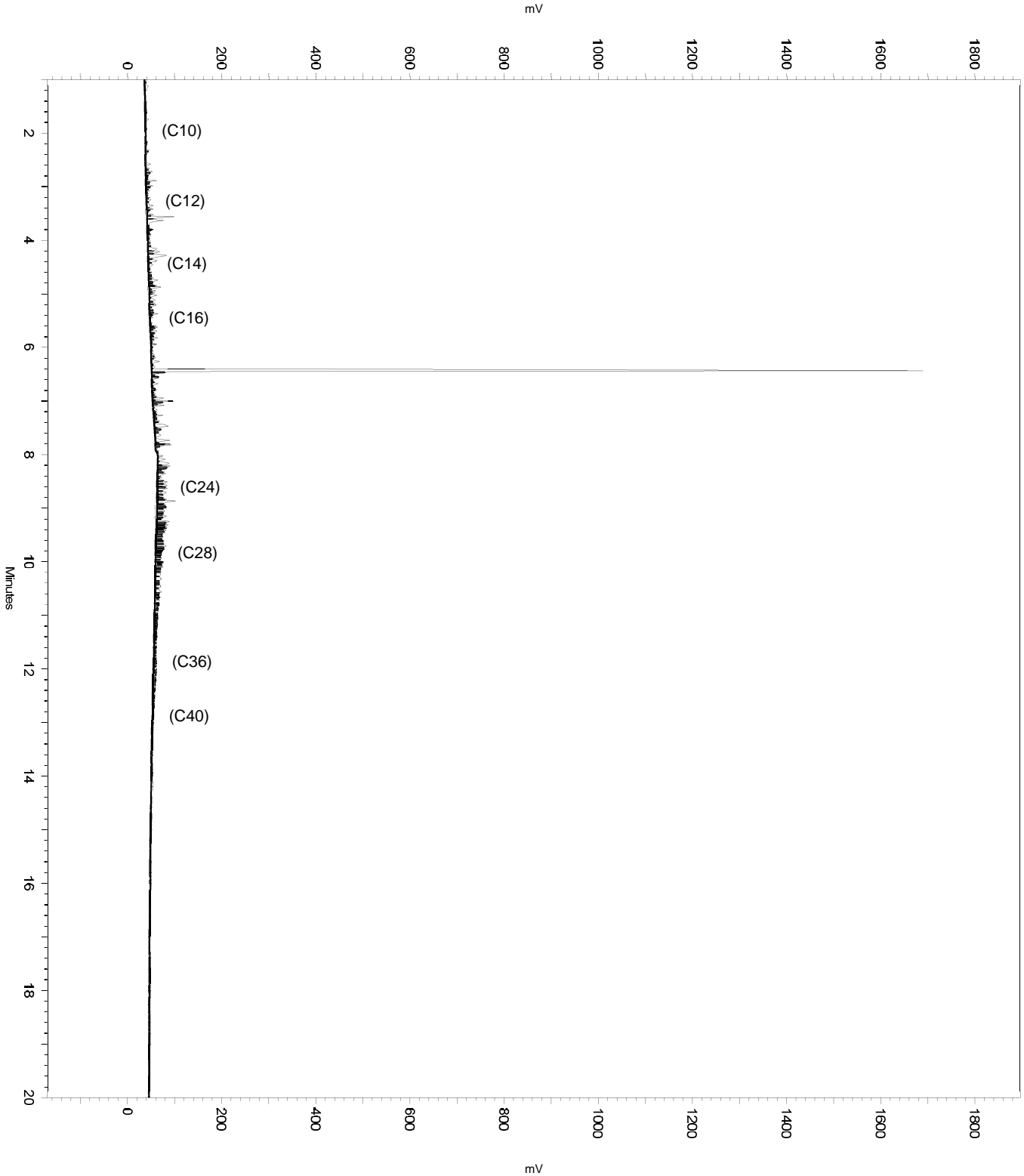
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.387	6.618	0
No	Split Peak	6.506	0	0

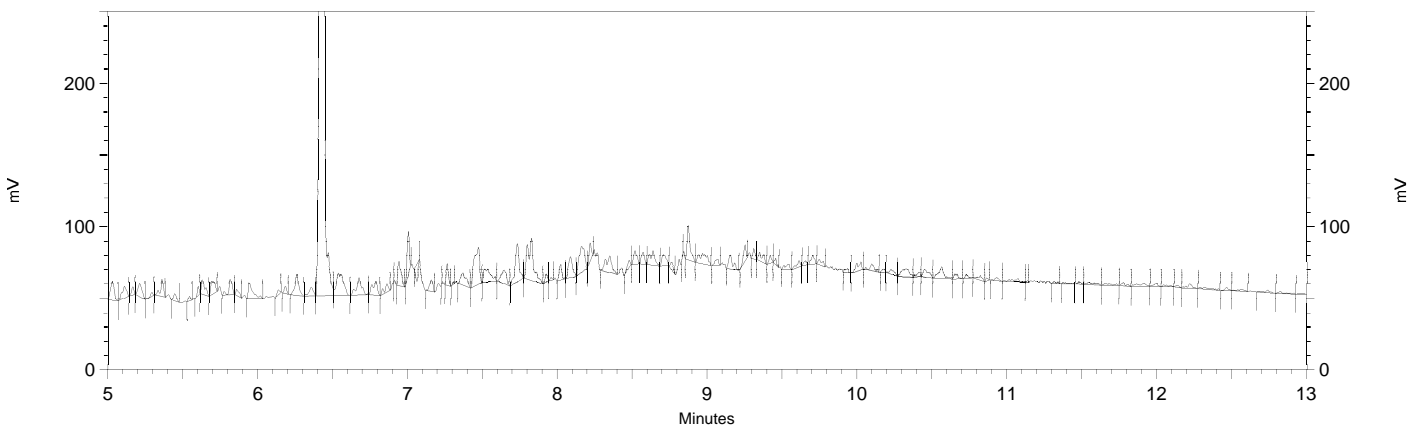
Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b021
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 4:36:25 PM
Analysis Date: 4/29/2019 5:01:04 PM
Instrument: GC14B Vial: 21 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b021
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 4:36:25 PM
 Analysis Date: 4/29/2019 5:00:25 PM
 Instrument: GC14B Vial: 21 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.440	2549304	51.456
Hexacosane	9.152	18666	0.455



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

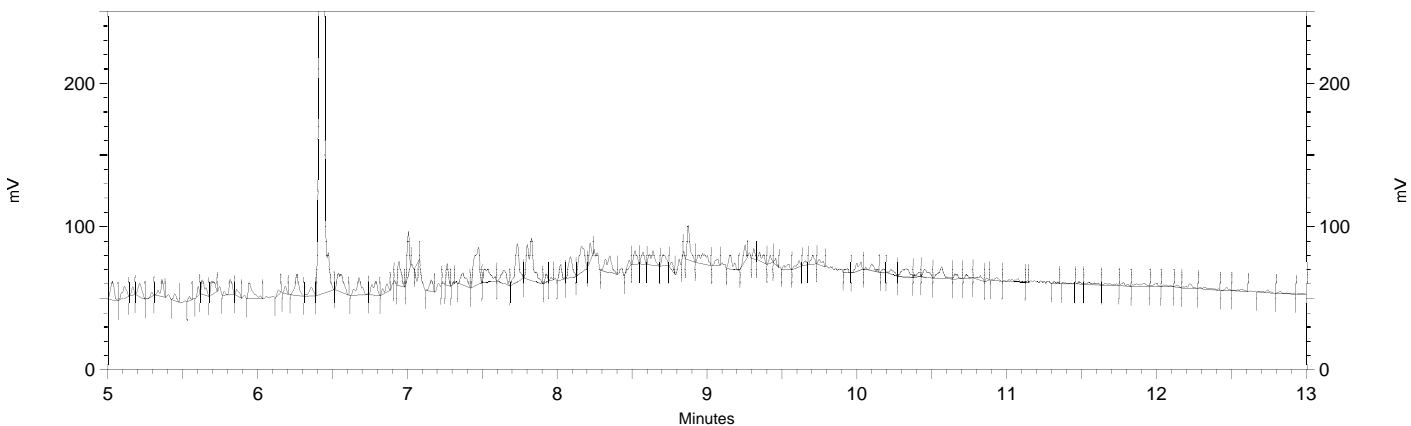
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.387	6.618	0
Yes	Split Peak	6.506	0	0

Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b021
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 4:36:25 PM
 Analysis Date: 4/29/2019 5:00:00 PM
 Instrument: GC14B Vial: 21 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.440	2536270	51.193
Hexacosane	9.152	18666	0.455



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

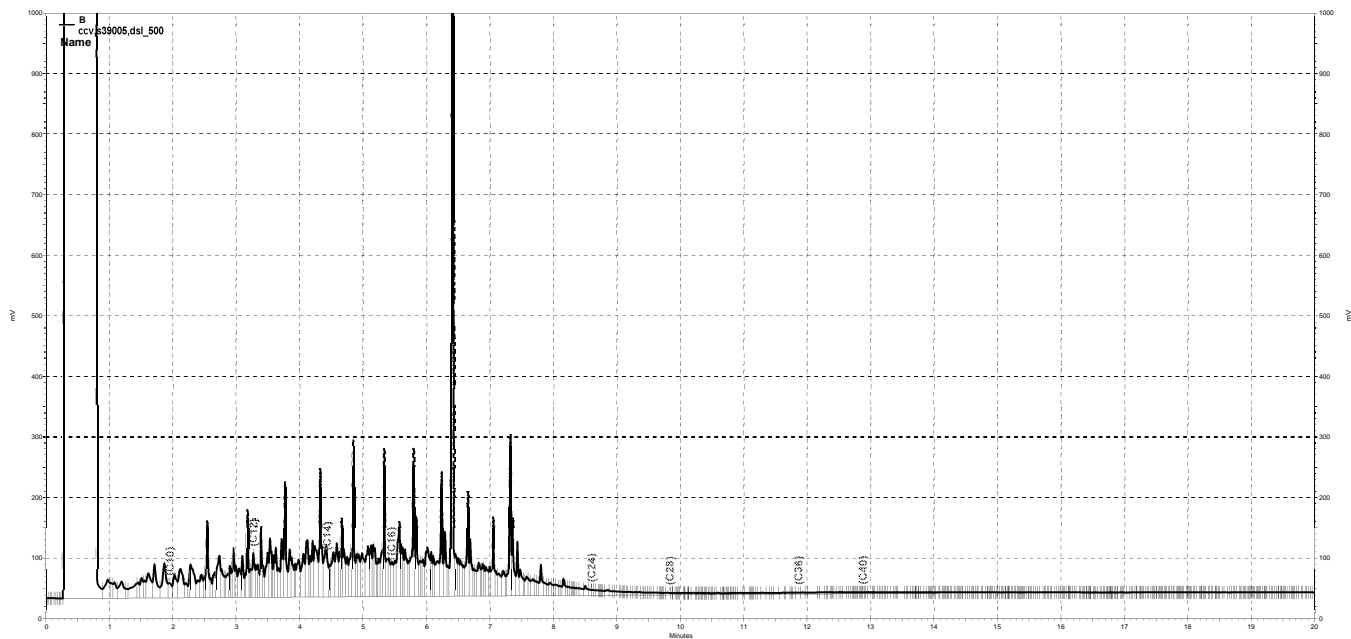
```

=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off      0          2     0
Yes Valley to Valley     0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b021
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
None
  
```

— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b036, B

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b036
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 11:28:11 PM
 Analysis Date: 4/30/2019 7:04:11 AM
 Instrument: GC14B Vial: 36 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12141980	326.160
DSL:10-14	7953020	565.772
DSL:10-22	22805142	609.879
DSL:10-24	23410244	608.883
DSL:10-28	23805628	607.511
DSL:12-24	20610940	612.780
DSL:12-28	21006324	611.132
DSL:14-24	16267082	628.963
DSL:16-24	12061399	678.420
MO:22-32	1353200	47.546
MO:24-36	764220	25.411
MO:28-40	466116	23.187
BUNKC:10-40	24235068	1057.378
BUNKC:12-40	21435764	968.188

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

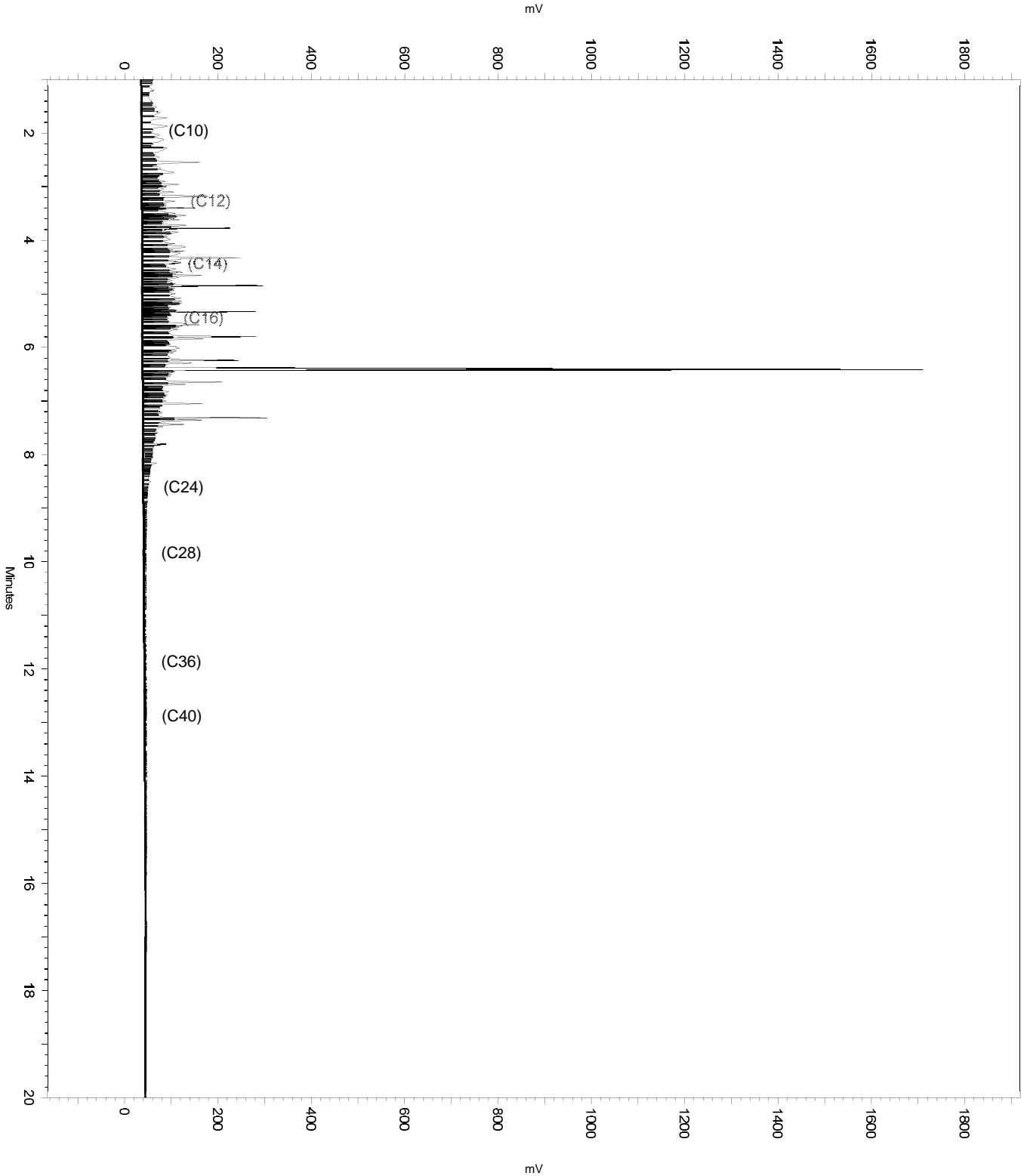
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.367	6.572	0
No	Split Peak	6.446	0	0
Yes	Move BL Stop	10.468	16.297	0

Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b036
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 11:28:11 PM
Analysis Date: 4/30/2019 7:04:11 AM
Instrument: GC14B Vial: 36 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b036
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 11:28:11 PM
 Analysis Date: 4/30/2019 7:03:52 AM
 Instrument: GC14B Vial: 36 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	11968708	321.505
DSL:10-14	7845656	558.134
DSL:10-22	22403200	599.130
DSL:10-24	22925884	596.286
DSL:10-28	23159174	591.013
DSL:12-24	20165940	599.550
DSL:12-28	20399230	593.470
DSL:14-24	15880446	614.014
DSL:16-24	11738271	660.245
MO:22-32	950159	33.385
MO:24-36	322514	10.724
MO:28-40	67798	3.373
BUNKC:10-40	23215100	1012.876
BUNKC:12-40	20455156	923.897

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

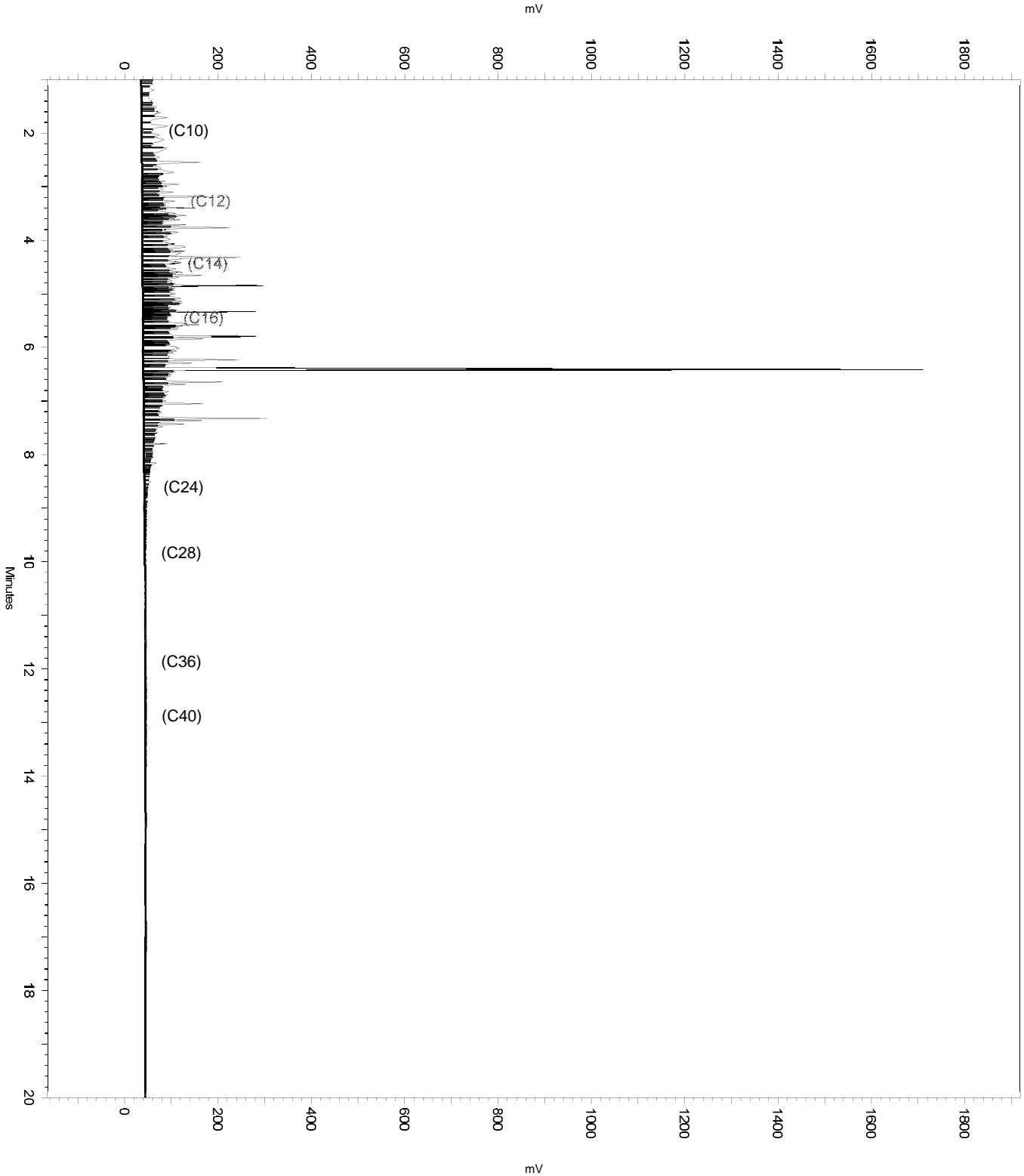
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.367	6.572	0
No	Split Peak	6.446	0	0

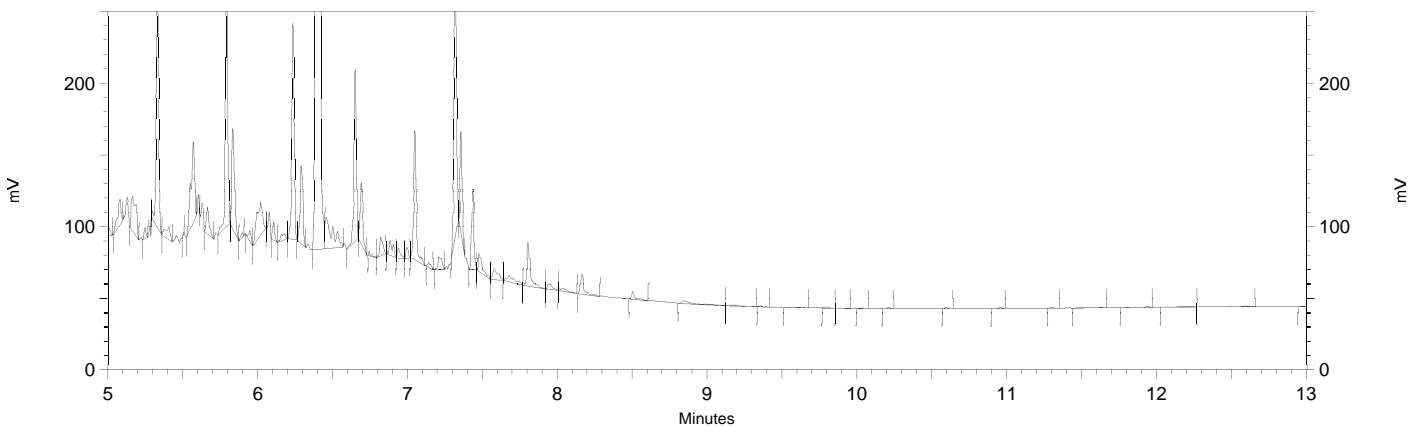
Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b036
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 11:28:11 PM
Analysis Date: 4/30/2019 7:03:52 AM
Instrument: GC14B Vial: 36 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b036
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 11:28:11 PM
 Analysis Date: 4/30/2019 7:01:56 AM
 Instrument: GC14B Vial: 36 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.417	2482258	50.102
Hexacosane	9.180	2538	0.062



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

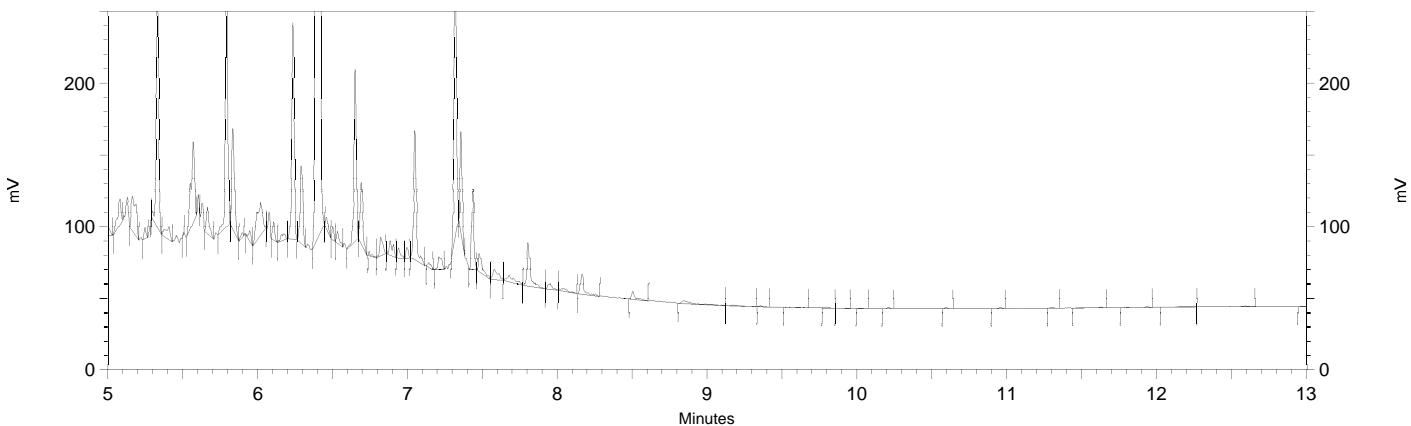
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.367	6.572	0
Yes	Split Peak	6.446	0	0

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b036
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 11:28:11 PM
 Analysis Date: 4/30/2019 7:01:33 AM
 Instrument: GC14B Vial: 36 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.417	2441886	49.288
Hexacosane	9.180	2538	0.062



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b036
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

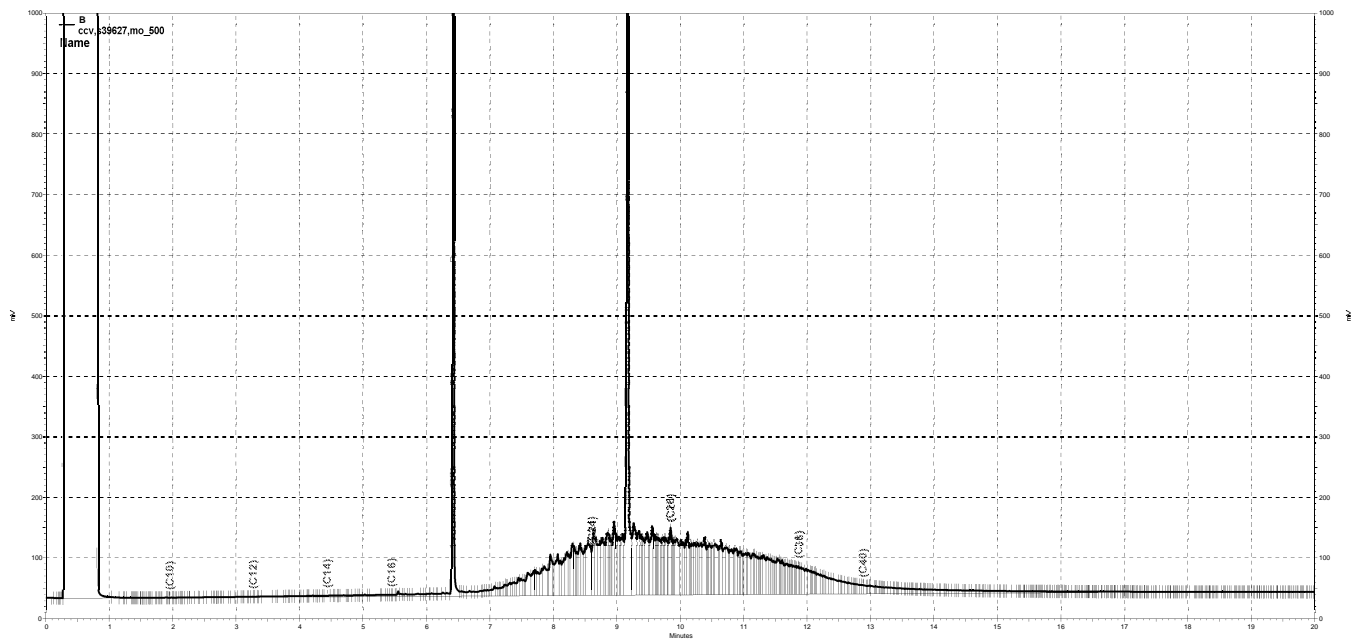
ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229171804037 File : 119_037 Time : 29-APR-2019 23:55
 Standards: S39627

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229137260003	05-APR-2019	30074	32038	500.0	532.6	mg/L	7	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	50085	50.00	50.55	mg/L	1	15	

TKY 04/30/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 04/30/19 Reviewer: EAH Date: 04/30/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b037, B

Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b037
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 11:55:45 PM
 Analysis Date: 4/30/2019 7:05:24 AM
 Instrument: GC14B Vial: 37 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	286890	7.706
DSL:10-14	138465	9.850
DSL:10-22	4644059	124.196
DSL:10-24	7382480	192.013
DSL:10-28	16303614	416.062
DSL:12-24	7348362	218.473
DSL:12-28	16269496	473.325
DSL:14-24	7257938	280.627
DSL:16-24	7119279	400.440
MO:22-32	17396668	611.250
MO:24-36	18168390	604.117
MO:28-40	10725151	533.519
BUNKC:10-40	26416864	1152.569
BUNKC:12-40	26382748	1191.628

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

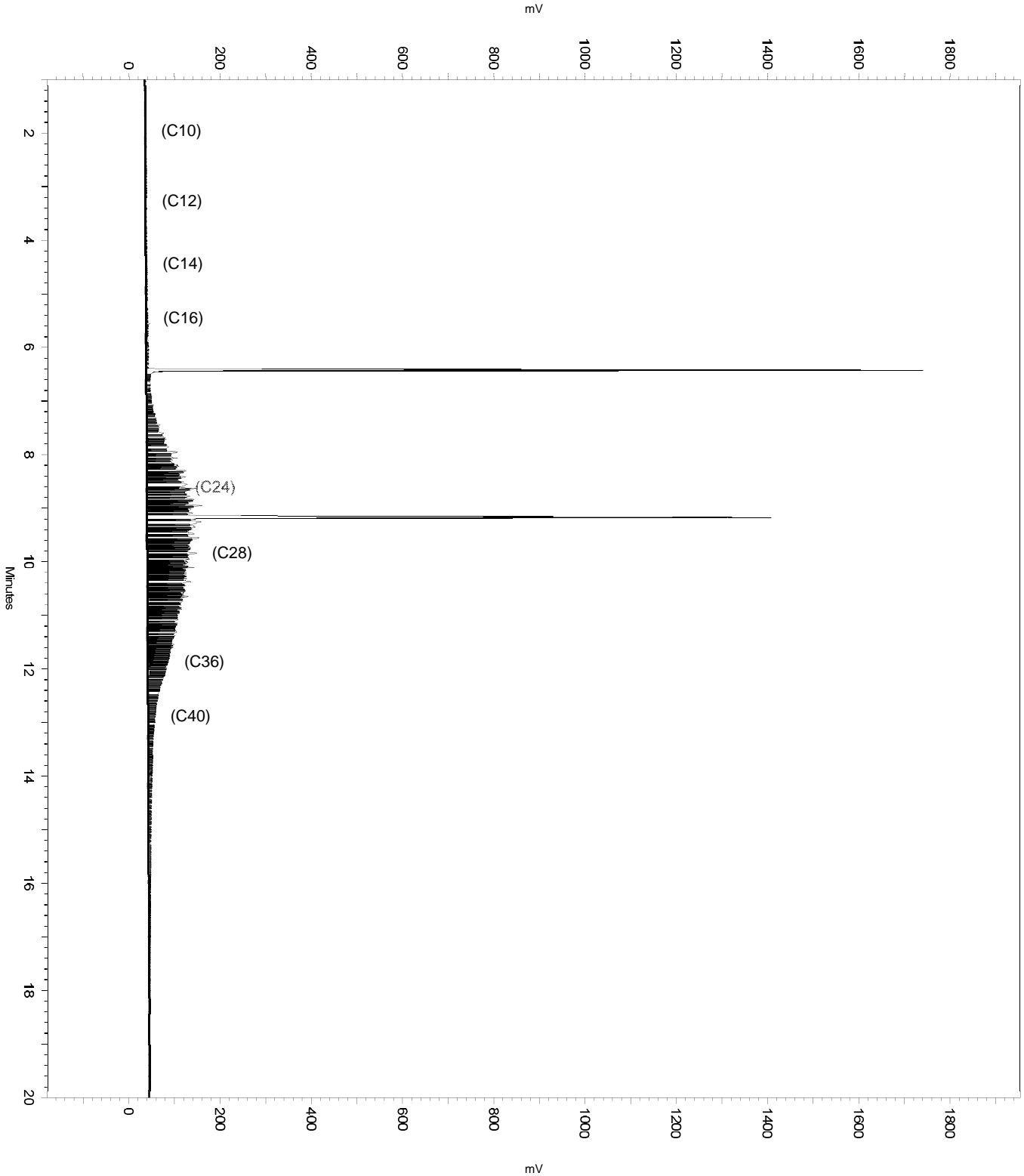
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b037

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.375	6.617	0
No	Split Peak	6.492	0	0
No	Manual Peak	9.12	9.311	0
No	Split Peak	9.202	0	0
Yes	Move BL Stop	16.117	18.41	0

Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b037
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 11:55:45 PM
Analysis Date: 4/30/2019 7:05:24 AM
Instrument: GC14B Vial: 37 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b037
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/29/2019 11:55:45 PM
 Analysis Date: 4/30/2019 7:04:41 AM
 Instrument: GC14B Vial: 37 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	229477	6.164
DSL:10-14	107976	7.681
DSL:10-22	4487160	120.000
DSL:10-24	7188835	186.976
DSL:10-28	16037391	409.268
DSL:12-24	7163439	212.975
DSL:12-28	16011995	465.833
DSL:14-24	7092015	274.211
DSL:16-24	6978895	392.543
MO:22-32	17202958	604.444
MO:24-36	17938720	596.481
MO:28-40	10486346	521.639
BUNKC:10-40	25919144	1130.853
BUNKC:12-40	25893748	1169.541

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

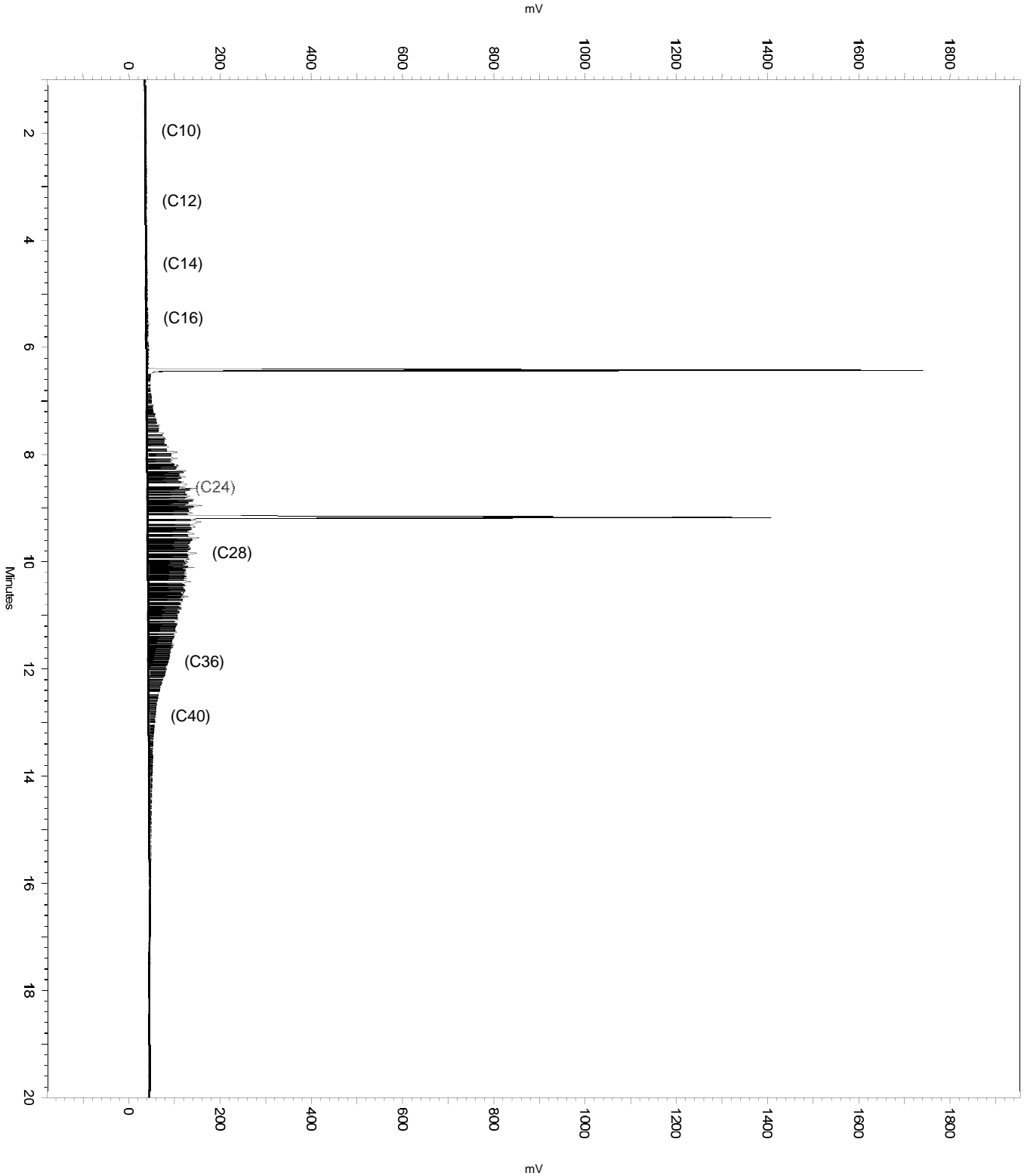
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b037

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.375	6.617	0
No	Split Peak	6.492	0	0
No	Manual Peak	9.12	9.311	0
No	Split Peak	9.202	0	0

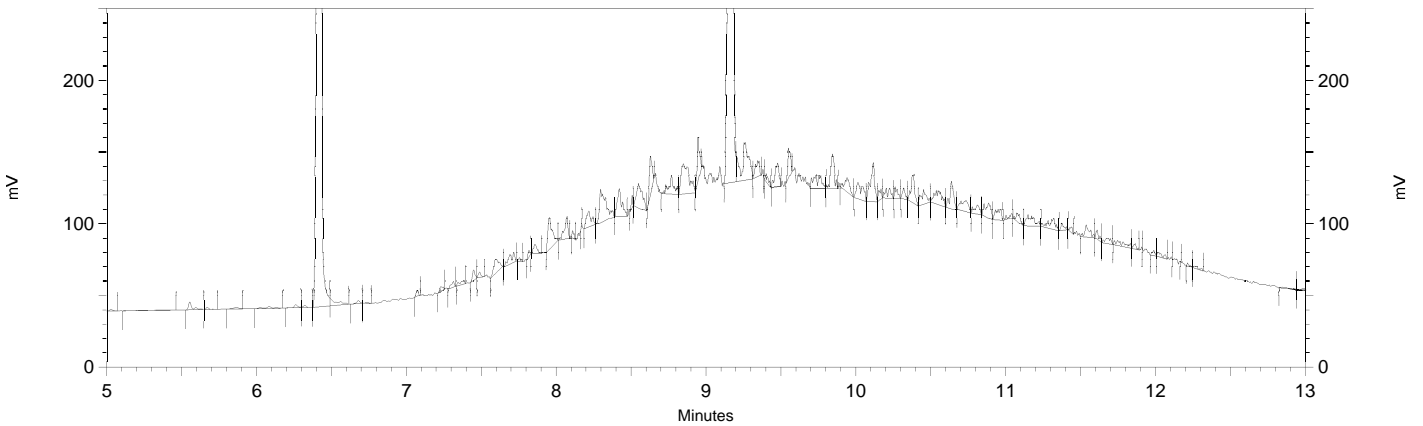
Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b037
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/29/2019 11:55:45 PM
Analysis Date: 4/30/2019 7:04:41 AM
Instrument: GC14B Vial: 37 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b037
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 11:55:45 PM
 Analysis Date: 4/30/2019 7:02:37 AM
 Instrument: GC14B Vial: 37 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.428	2504268	50.547
Hexacosane	9.175	2149381	52.446



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

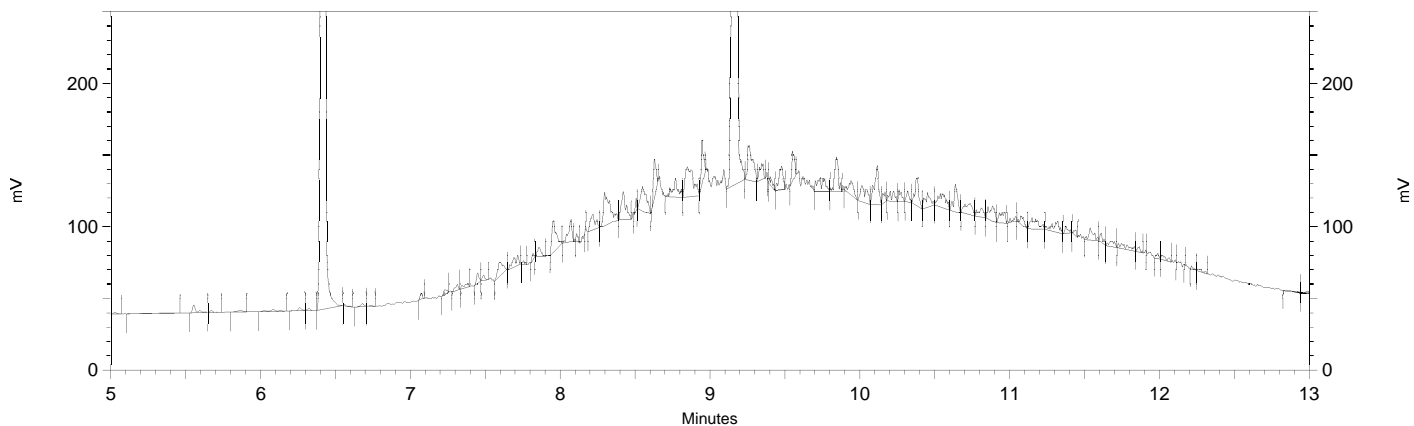
```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b037
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Manual Peak         6.375     6.617     0
Yes Split Peak          6.492     0          0
Yes Manual Peak         9.12      9.311     0
Yes Split Peak          9.202     0          0
  
```

Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b037
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/29/2019 11:55:45 PM
 Analysis Date: 4/30/2019 7:02:03 AM
 Instrument: GC14B Vial: 37 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.428	2504990	50.561
Hexacosane	9.175	2163782	52.797



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

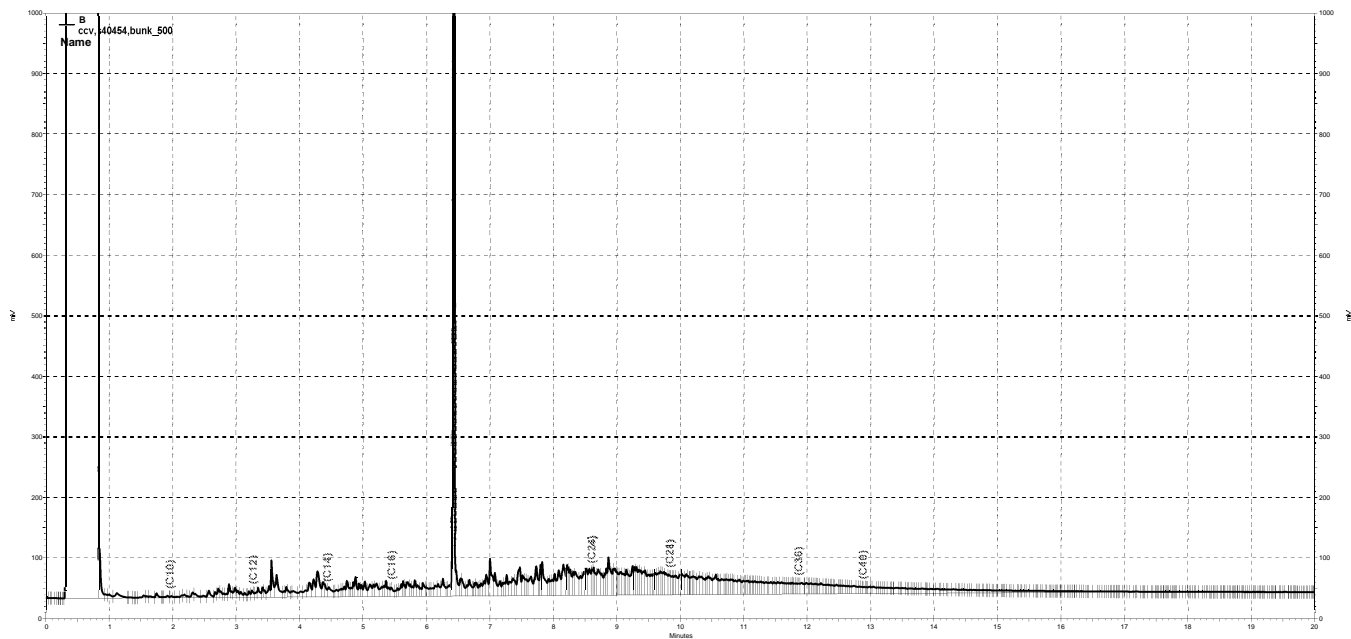
```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b037
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```

— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b039, B

Sample Name: ccv,s40454,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b039
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/30/2019 12:50:55 AM
 Analysis Date: 4/30/2019 7:08:06 AM
 Instrument: GC14B Vial: 39 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2324946	62.453
DSL:10-14	1440406	102.469
DSL:10-22	7942112	212.396
DSL:10-24	9314688	242.268
DSL:10-28	11942813	304.776
DSL:12-24	8937035	265.705
DSL:12-28	11565160	336.462
DSL:14-24	8112689	313.675
DSL:16-24	7146466	401.969
MO:22-32	6020609	211.540
MO:24-36	5774706	192.015
MO:28-40	3957227	196.851
BUNKC:10-40	15592564	680.304
BUNKC:12-40	15214911	687.211

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

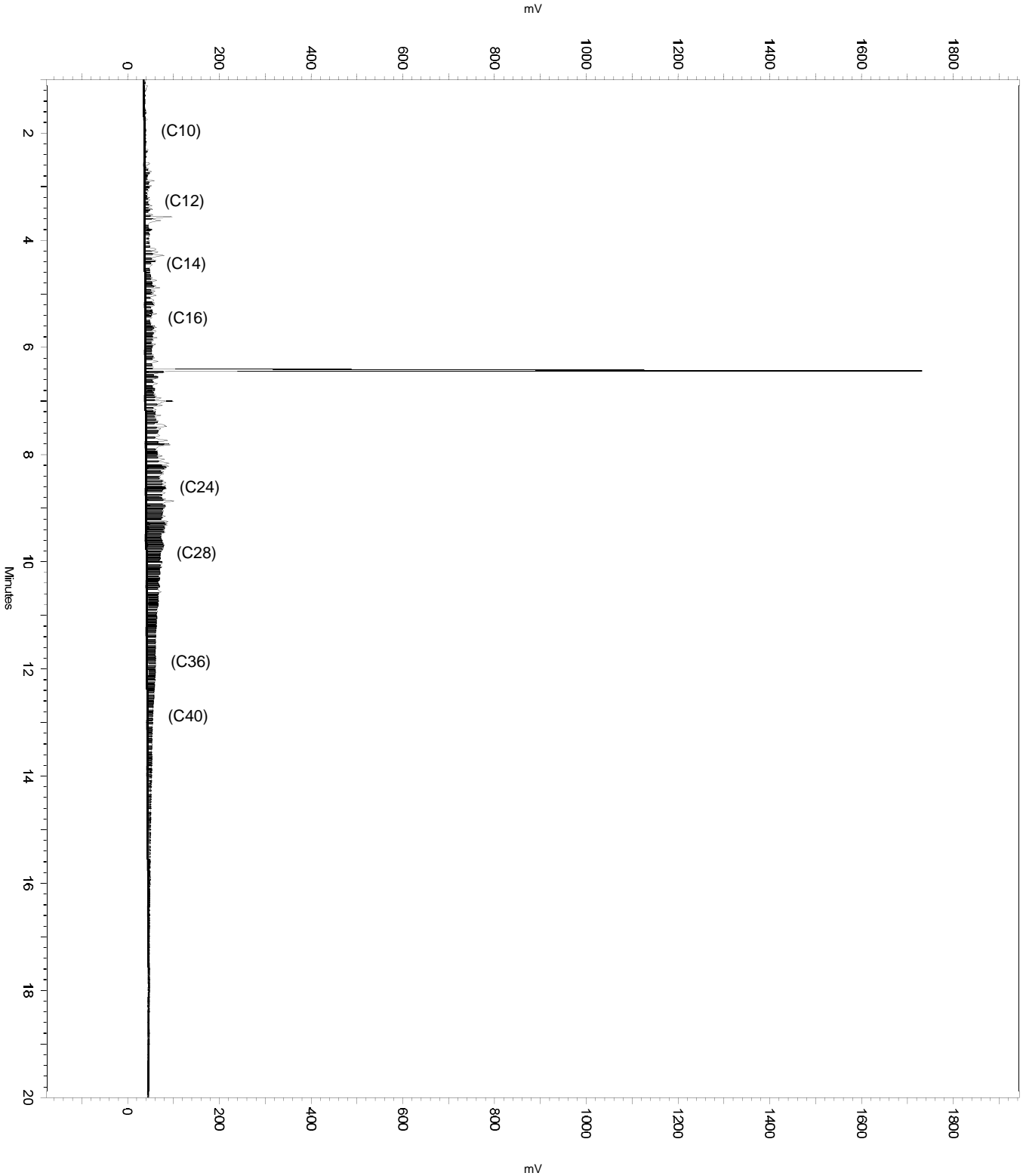
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b039

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.386	6.605	0
No	Split Peak	6.505	0	0

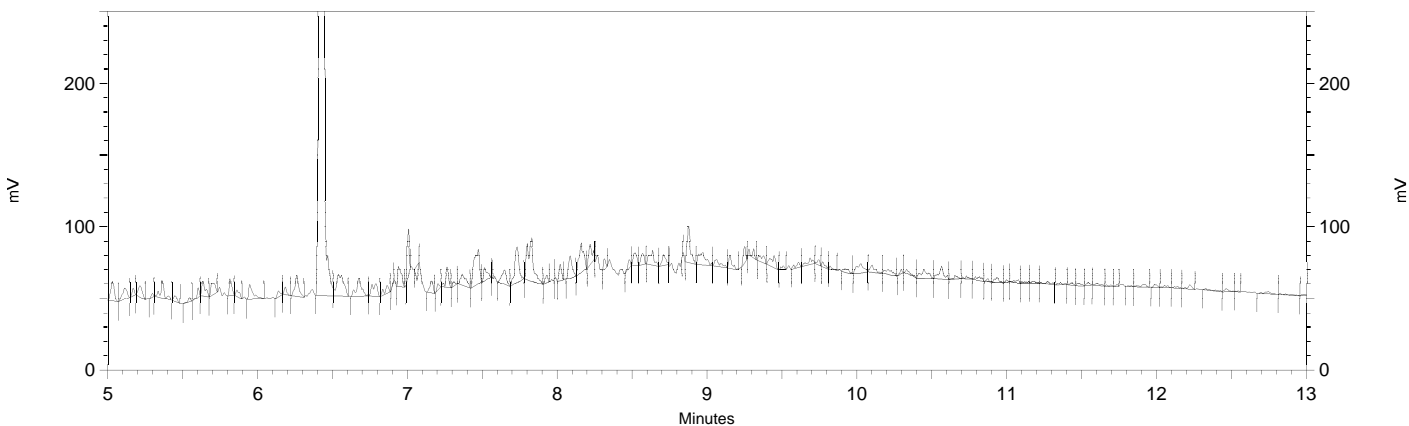
Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b039
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/30/2019 12:50:55 AM
Analysis Date: 4/30/2019 7:08:06 AM
Instrument: GC14B Vial: 39 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b039
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/30/2019 12:50:55 AM
 Analysis Date: 4/30/2019 7:03:23 AM
 Instrument: GC14B Vial: 39 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.438	2570658	51.887
Hexacosane	9.152	12930	0.315



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b039

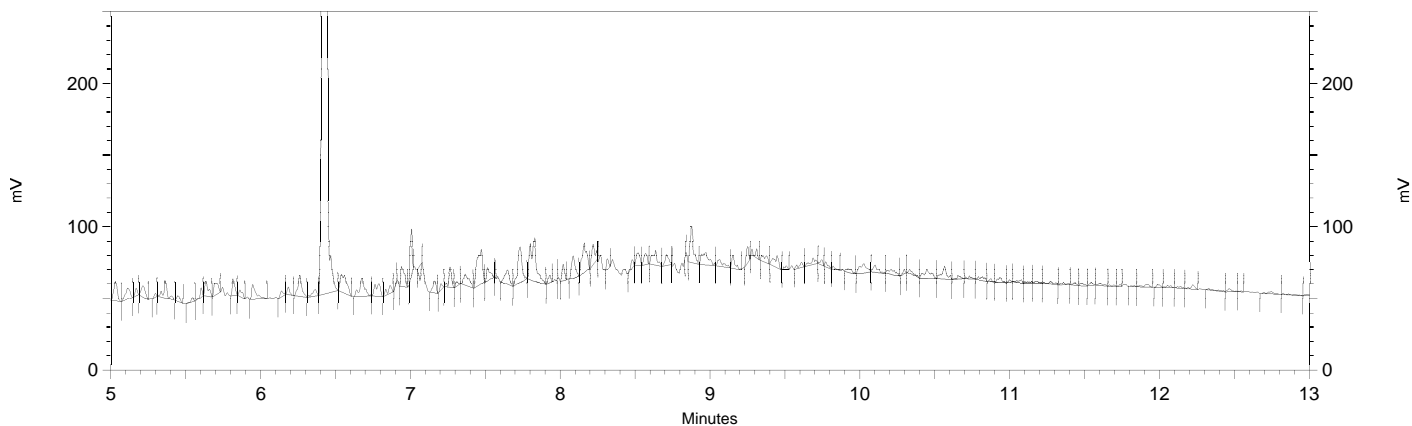
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.386	6.605	0
Yes	Split Peak	6.505	0	0

Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b039
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/30/2019 12:50:55 AM
 Analysis Date: 4/30/2019 7:03:06 AM
 Instrument: GC14B Vial: 39 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.438	2560019	51.672
Hexacosane	9.152	12930	0.315



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b039
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

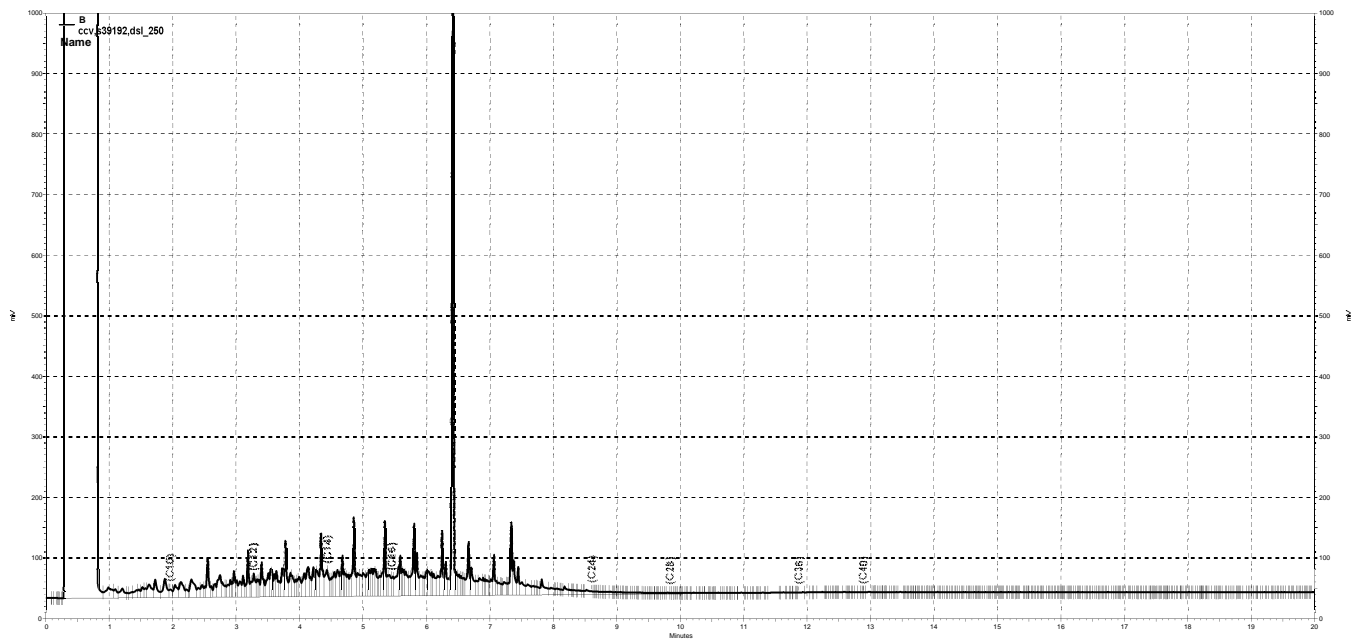
Inst : GC14B Run Name : DSL_250 IDF : 1.0
 Seqnum : 229171804051 File : 119_051 Time : 30-APR-2019 06:20
 Standards: S39192

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	43801	250.0	284.8	mg/L	14	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	46862	50.00	47.29	mg/L	-5	15	

TKY 04/30/19 : Corrected automatically drawn baseline.

TKY 04/30/19 : ccv,s39192,dsl_250

Analyst: TKY Date: 04/30/19 Reviewer: EAH Date: 04/30/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b051, B

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b051
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/30/2019 6:20:37 AM
 Analysis Date: 4/30/2019 7:30:41 AM
 Instrument: GC14B Vial: 51 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	6291078	168.992
DSL:10-14	3905821	277.857
DSL:10-22	12973651	346.955
DSL:10-24	13293391	345.751
DSL:10-28	13502317	344.574
DSL:12-24	11942298	355.054
DSL:12-28	12151224	353.513
DSL:14-24	9721053	375.862
DSL:16-24	7427109	417.754
MO:22-32	742454	26.087
MO:24-36	401190	13.340
MO:28-40	203931	10.144
BUNKC:10-40	13687430	597.183
BUNKC:12-40	12336337	557.195

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

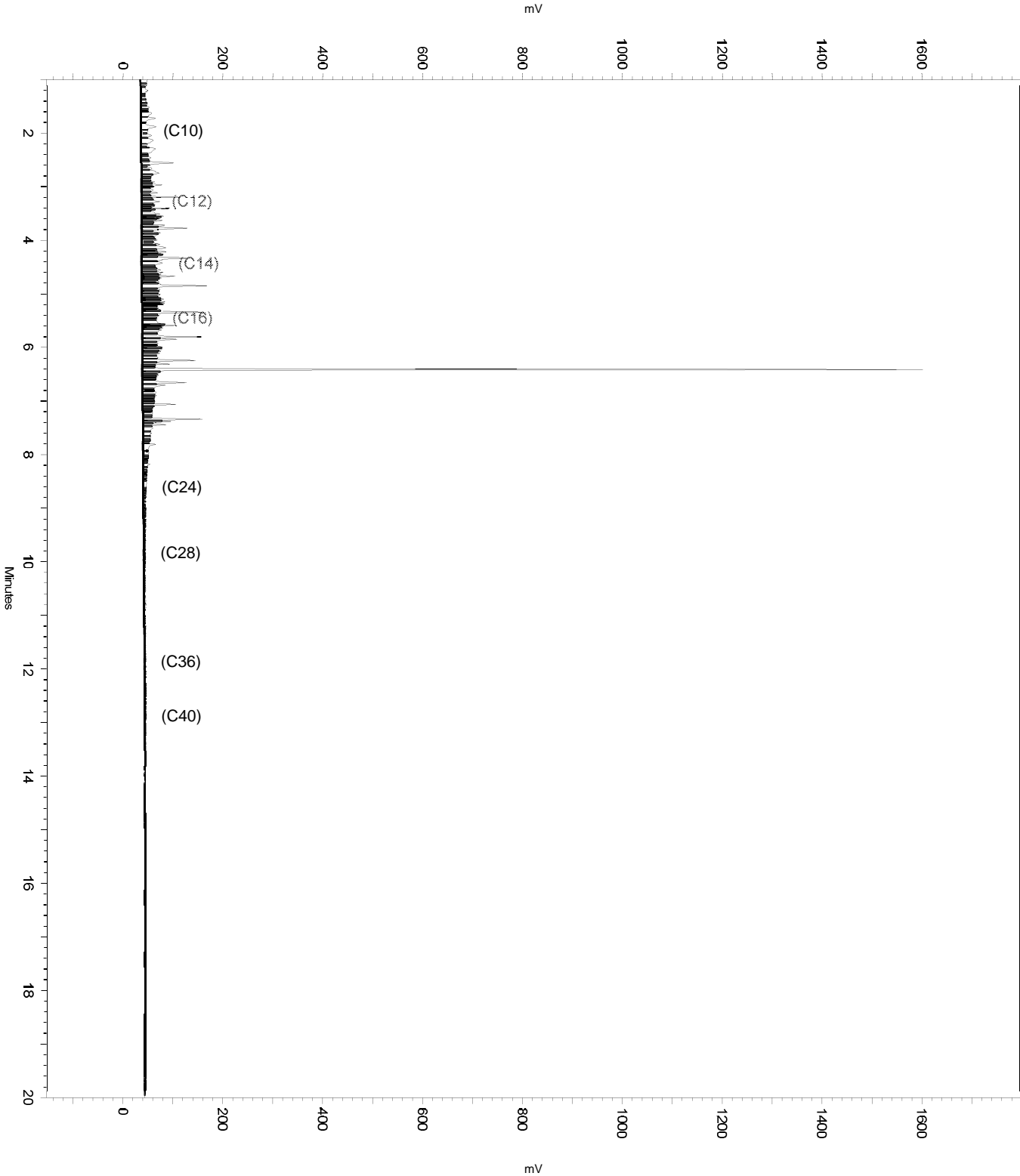
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b051

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.372	6.562	0
No	Split Peak	6.453	0	0
Yes	Move BL Stop	10.377	13.984	0

Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b051
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/30/2019 6:20:37 AM
Analysis Date: 4/30/2019 7:30:41 AM
Instrument: GC14B Vial: 51 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39192,dsi_250
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b051
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
 Run Date: 4/30/2019 6:20:37 AM
 Analysis Date: 4/30/2019 7:30:25 AM
 Instrument: GC14B Vial: 51 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	6209180	166.792
DSL:10-14	3857646	274.430
DSL:10-22	12783040	341.858
DSL:10-24	13064710	339.804
DSL:10-28	13199537	336.847
DSL:12-24	11731100	348.775
DSL:12-28	11865927	345.213
DSL:14-24	9537270	368.756
DSL:16-24	7274474	409.169
MO:22-32	556355	19.548
MO:24-36	211617	7.036
MO:28-40	65816	3.274
BUNKC:10-40	13257962	578.446
BUNKC:12-40	11924352	538.587

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

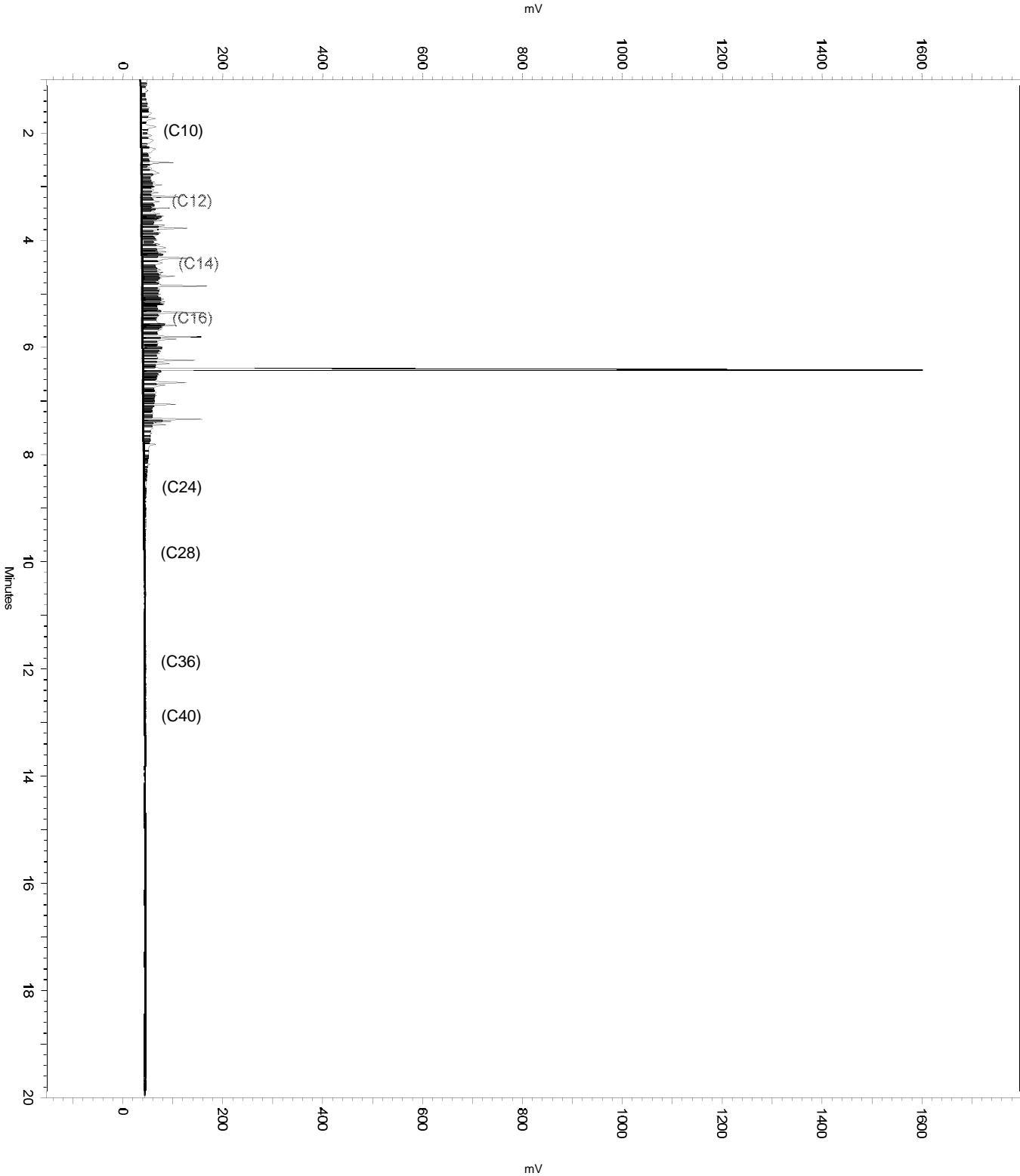
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b051

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.372	6.562	0
No	Split Peak	6.453	0	0

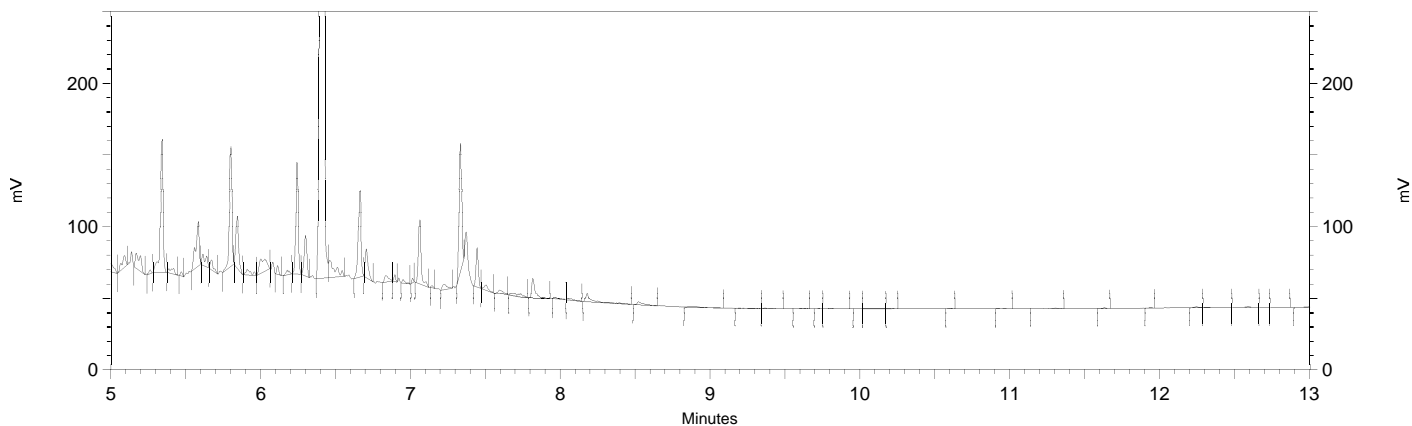
Sample Name: ccv,s39192,dsl_250
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b051
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_116.met
Run Date: 4/30/2019 6:20:37 AM
Analysis Date: 4/30/2019 7:30:25 AM
Instrument: GC14B Vial: 51 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b051
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/30/2019 6:20:37 AM
 Analysis Date: 4/30/2019 7:18:32 AM
 Instrument: GC14B Vial: 51 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.422	2343095	47.293
Hexacosane	9.193	1197	0.029



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

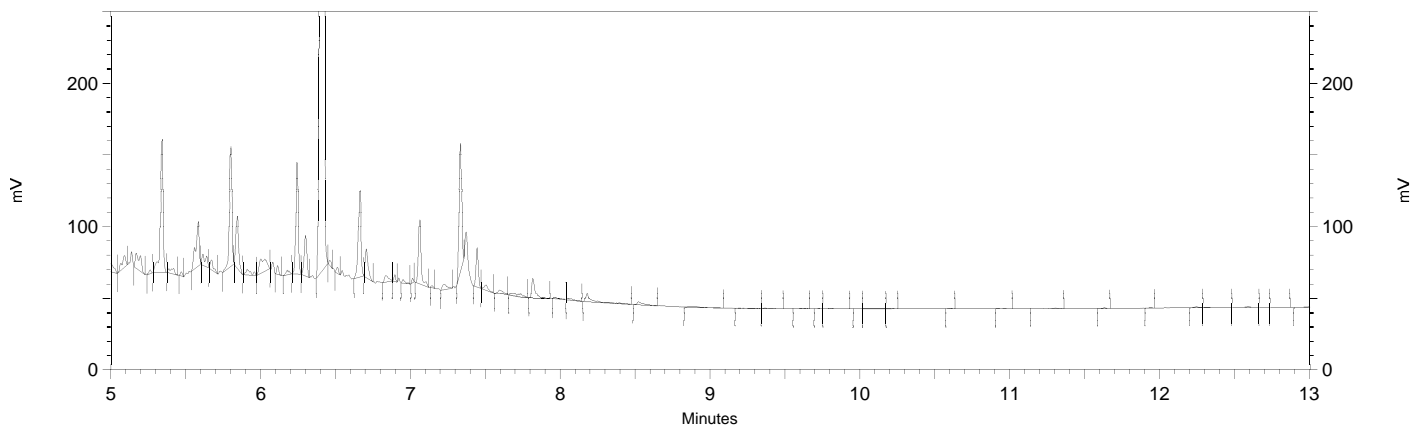
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b051

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.372	6.562	0
Yes	Split Peak	6.453	0	0

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b051
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\119.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_116.met
 Run Date: 4/30/2019 6:20:37 AM
 Analysis Date: 4/30/2019 7:18:16 AM
 Instrument: GC14B Vial: 51 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.422	2318410	46.795
Hexacosane	9.193	1197	0.029



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0         100
Yes Integration Off     0          2          0
Yes Valley to Valley    0          20         0
Yes Shoulder Sensitivity 0          20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\119b051
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

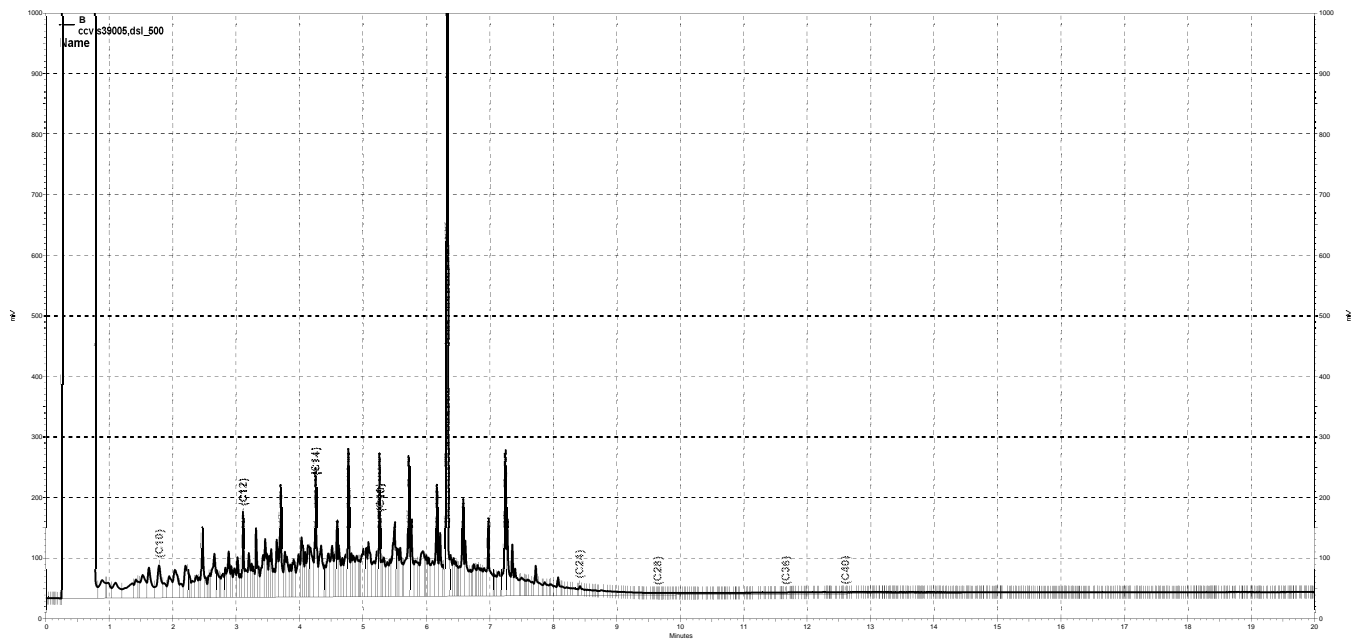
ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_500 IDF : 1.0
 Seqnum : 229174702004 File : 121_004 Time : 01-MAY-2019 09:07
 Standards: S39005

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	41268	500.0	536.7	mg/L	7	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	48125	50.00	48.57	mg/L	-3	15	

TKY 05/01/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 05/01/19 Reviewer: TKM Date: 05/02/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b004, B

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 9:07:38 AM
 Analysis Date: 5/1/2019 10:10:21 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	12052437	323.754
DSL:10-14	7618086	541.945
DSL:10-22	22462444	600.715
DSL:10-24	23040304	599.262
DSL:10-28	23437366	598.113
DSL:12-24	20114016	598.006
DSL:12-28	20511078	596.724
DSL:14-24	15857234	613.116
DSL:16-24	11763652	661.673
MO:22-32	1386593	48.719
MO:24-36	813349	27.045
MO:28-40	532161	26.472
BUNKC:10-40	23941032	1044.549
BUNKC:12-40	21014744	949.172

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

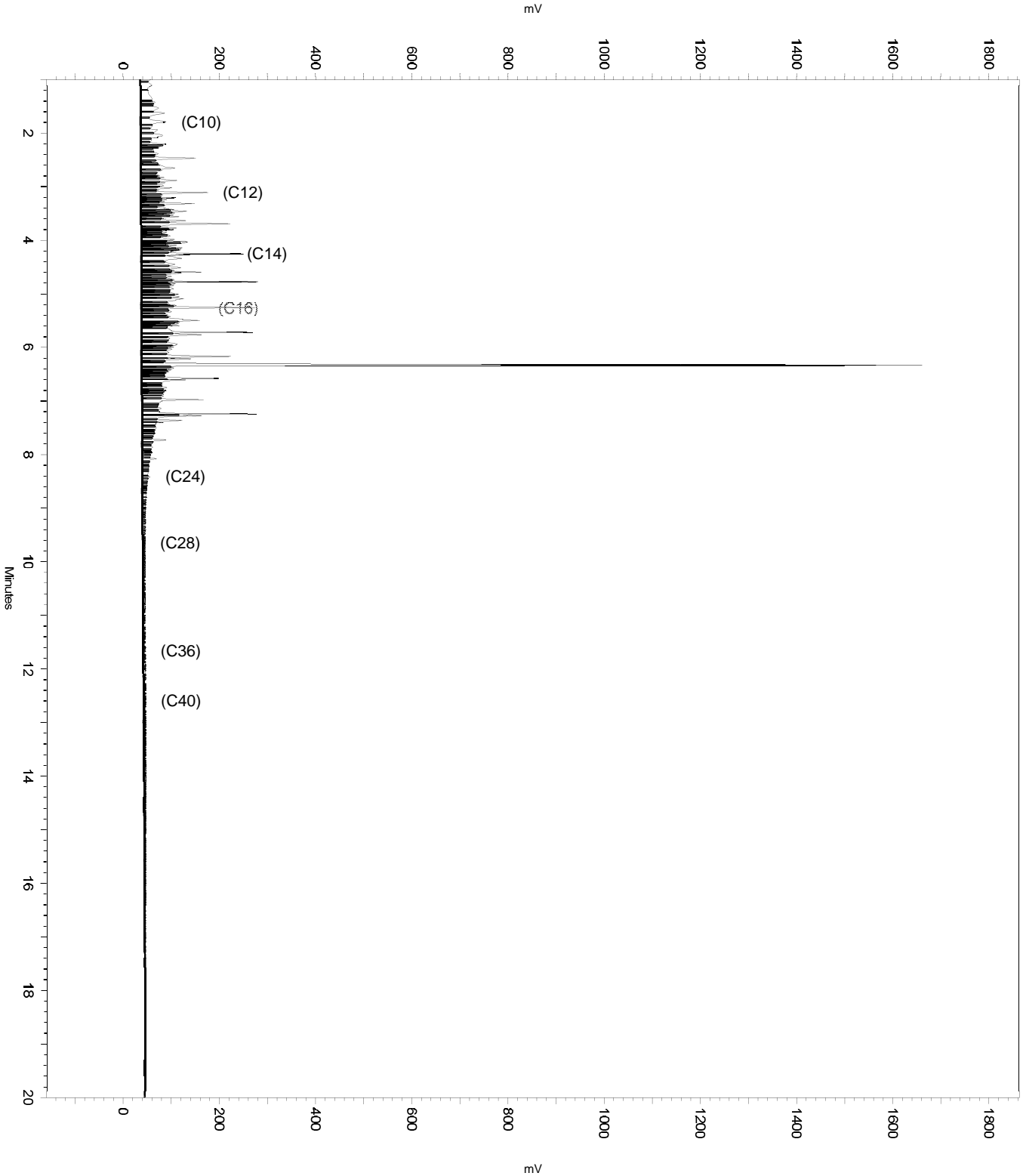
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.279	6.494	0
No	Split Peak	6.364	0	0
Yes	Move BL Stop	9.978	17.425	0

Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 9:07:38 AM
Analysis Date: 5/1/2019 10:10:21 AM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39005,dsl_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 9:07:38 AM
 Analysis Date: 5/1/2019 10:10:04 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	11835642	317.931
DSL:10-14	7489631	532.807
DSL:10-22	21961046	587.305
DSL:10-24	22442032	583.701
DSL:10-28	22641990	577.815
DSL:12-24	19566872	581.739
DSL:12-28	19766830	575.072
DSL:14-24	15382415	594.758
DSL:16-24	11367231	639.375
MO:22-32	894914	31.444
MO:24-36	277272	9.220
MO:28-40	56994	2.835
BUNKC:10-40	22695554	990.208
BUNKC:12-40	19820394	895.227

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

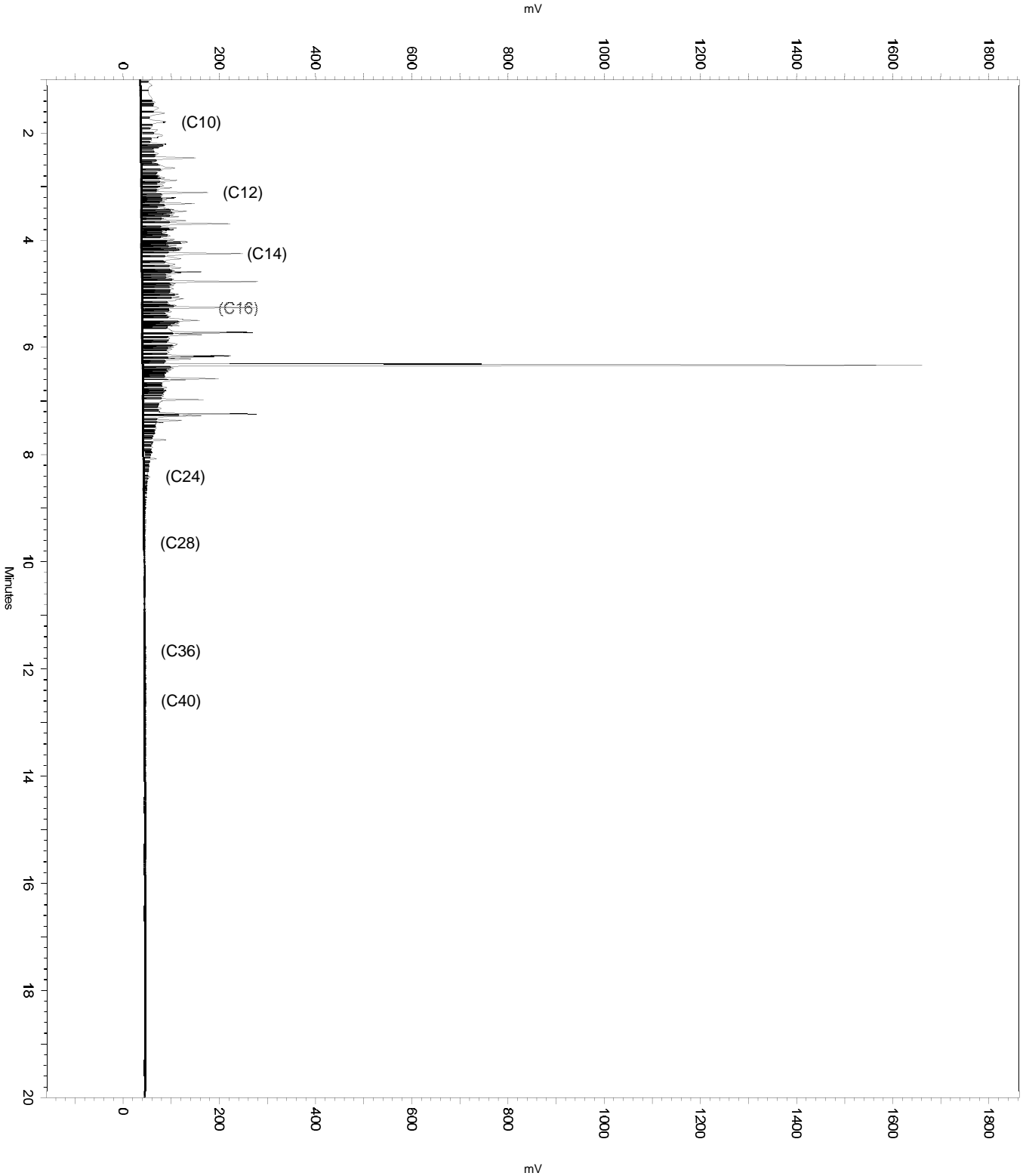
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.279	6.494	0
No	Split Peak	6.364	0	0

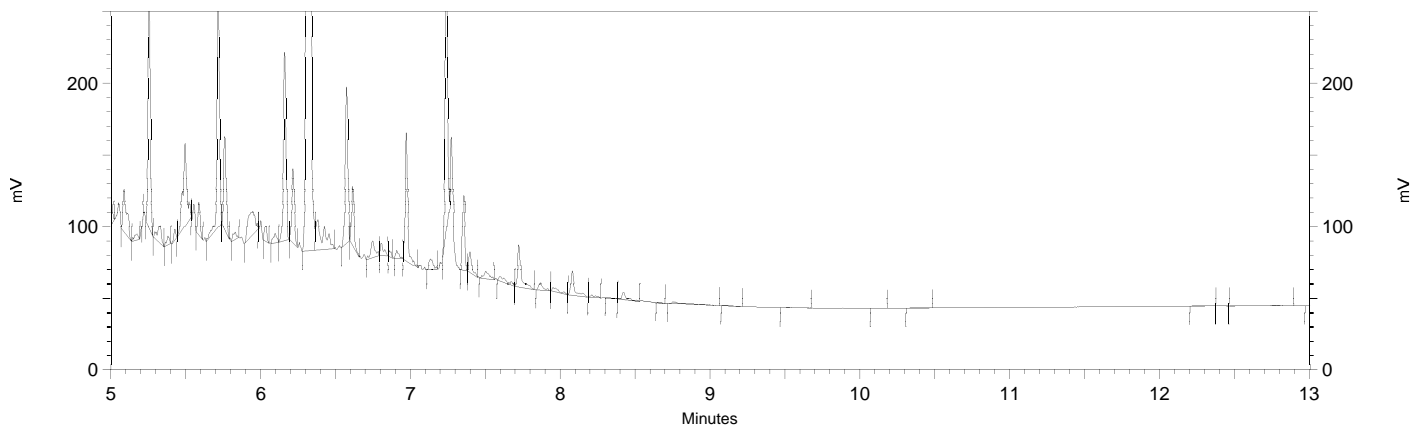
Sample Name: ccv,s39005,dsl_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b004
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 9:07:38 AM
Analysis Date: 5/1/2019 10:10:04 AM
Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 9:07:38 AM
 Analysis Date: 5/1/2019 10:09:04 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.333	2406228	48.568
Hexacosane	9.112	1298	0.032



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

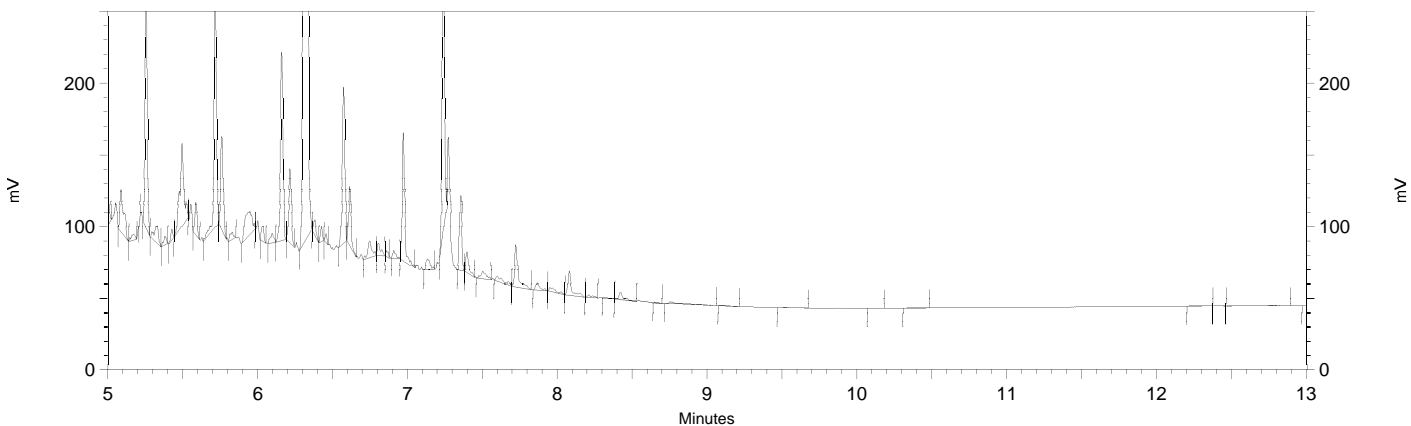
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.279	6.494	0
Yes	Split Peak	6.364	0	0

Sample Name: **ccv,s39005,dsl_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b004
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 9:07:38 AM
 Analysis Date: 5/1/2019 10:08:47 AM
 Instrument: GC14B Vial: 4 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.333	2370289	47.842
Hexacosane	9.112	1298	0.032



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

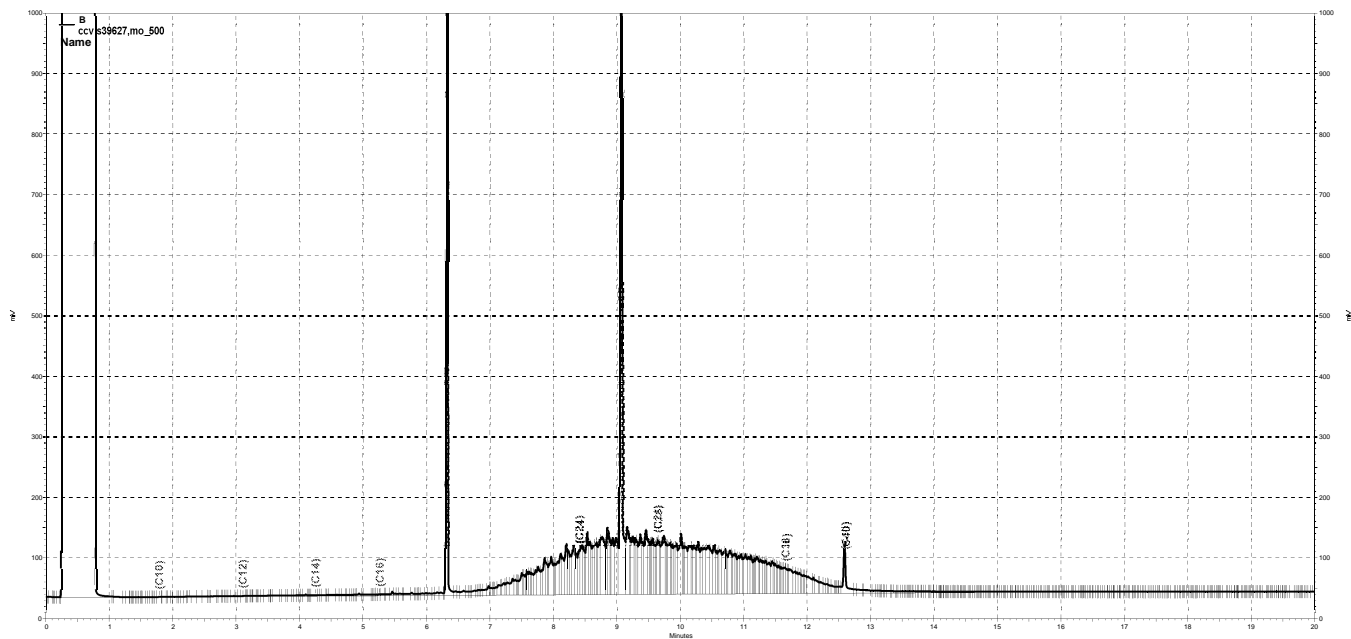
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b005, B

Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 9:35:18 AM
 Analysis Date: 5/1/2019 10:12:44 AM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	263481	7.078
DSL:10-14	139434	9.919
DSL:10-22	4291544	114.769
DSL:10-24	6794237	176.713
DSL:10-28	15026152	383.462
DSL:12-24	6759378	200.962
DSL:12-28	14991293	436.138
DSL:14-24	6669994	257.894
DSL:16-24	6549864	368.412
MO:22-32	16084108	565.132
MO:24-36	16889252	561.585
MO:28-40	9725046	483.769
BUNKC:10-40	24238680	1057.535
BUNKC:12-40	24203820	1093.213

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

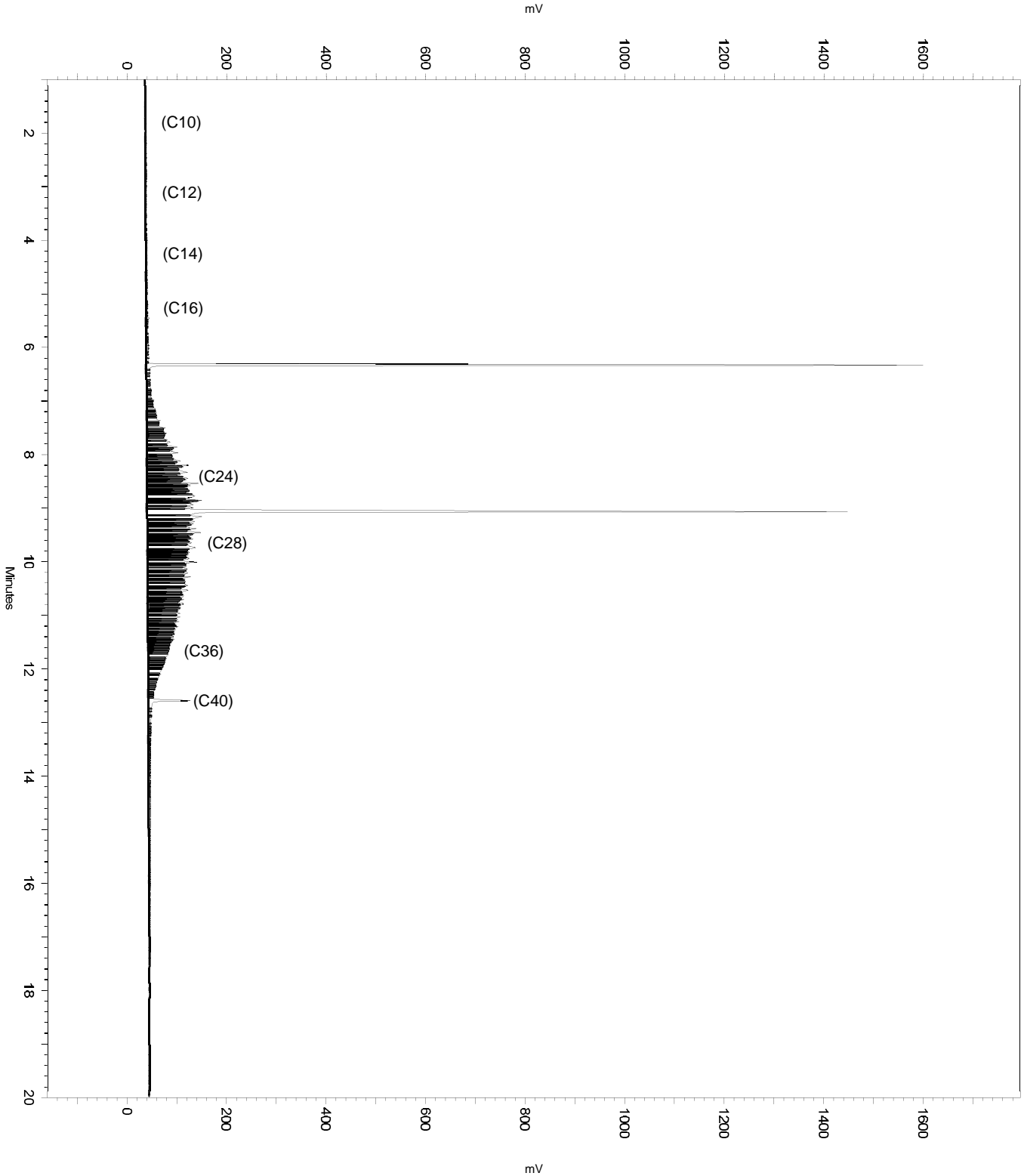
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.281	6.424	0
No	Split Peak	6.401	0	0
No	Manual Peak	9.023	9.337	0
No	Split Peak	9.118	0	0
Yes	Move BL Stop	13.363	17.292	0

Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 9:35:18 AM
Analysis Date: 5/1/2019 10:12:44 AM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 9:35:18 AM
 Analysis Date: 5/1/2019 10:12:31 AM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	160613	4.314
DSL:10-14	85776	6.102
DSL:10-22	3998677	106.937
DSL:10-24	6430754	167.259
DSL:10-28	14521507	370.584
DSL:12-24	6408843	190.540
DSL:12-28	14499596	421.833
DSL:14-24	6353800	245.668
DSL:16-24	6281733	353.330
MO:22-32	15707061	551.884
MO:24-36	16432019	546.381
MO:28-40	9250616	460.168
BUNKC:10-40	23272668	1015.387
BUNKC:12-40	23250756	1050.165

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

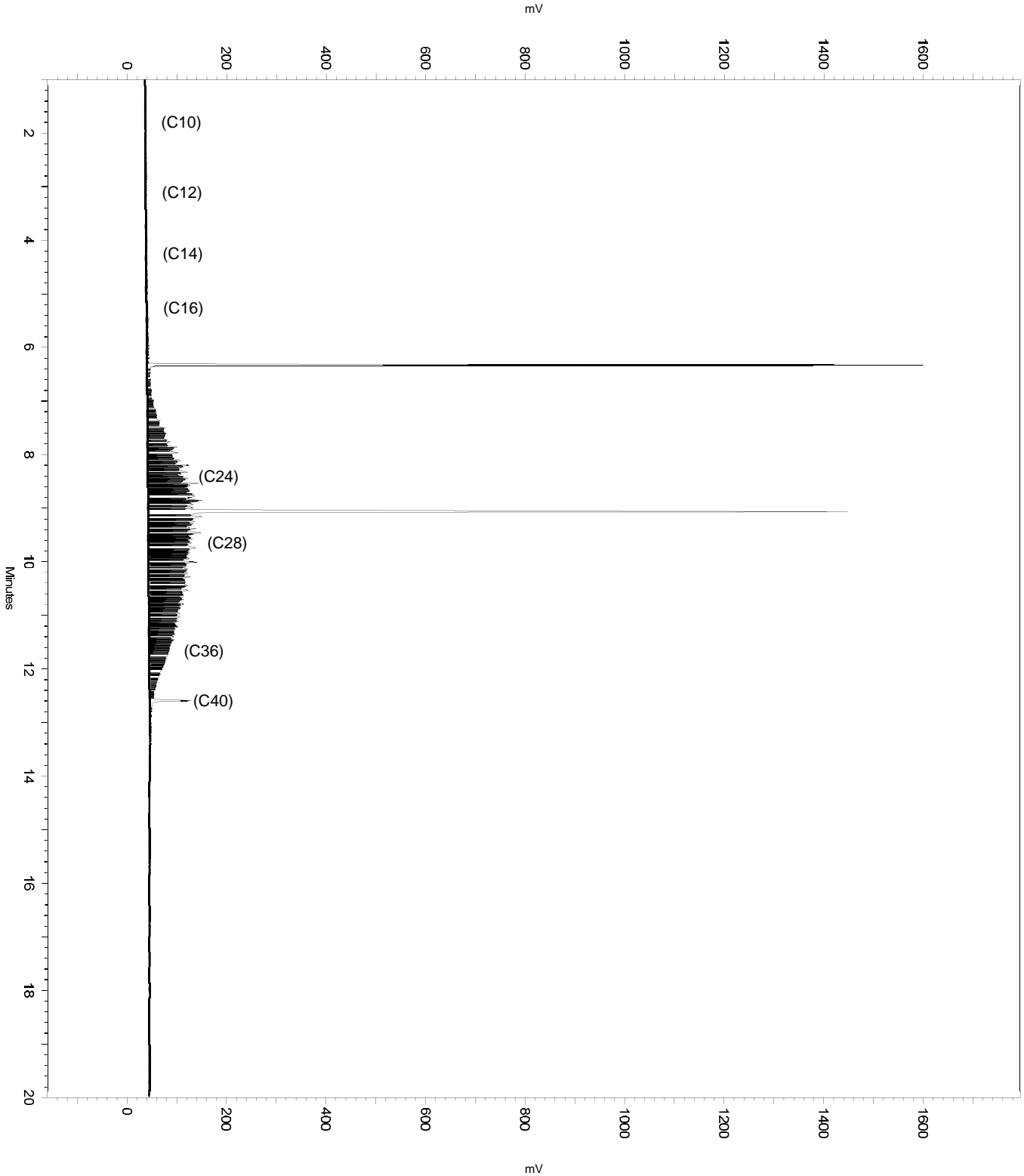
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.281	6.424	0
No	Split Peak	6.401	0	0
No	Manual Peak	9.023	9.337	0
No	Split Peak	9.118	0	0

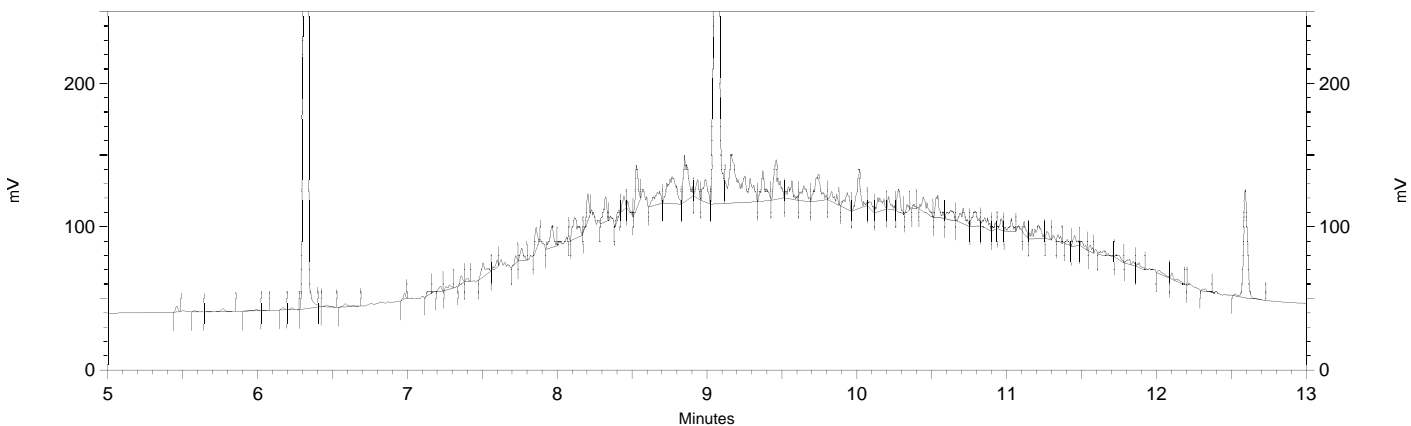
Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b005
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 9:35:18 AM
Analysis Date: 5/1/2019 10:12:31 AM
Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 9:35:18 AM
 Analysis Date: 5/1/2019 10:09:42 AM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.333	2345263	47.337
Hexacosane	9.075	2036883	49.701



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

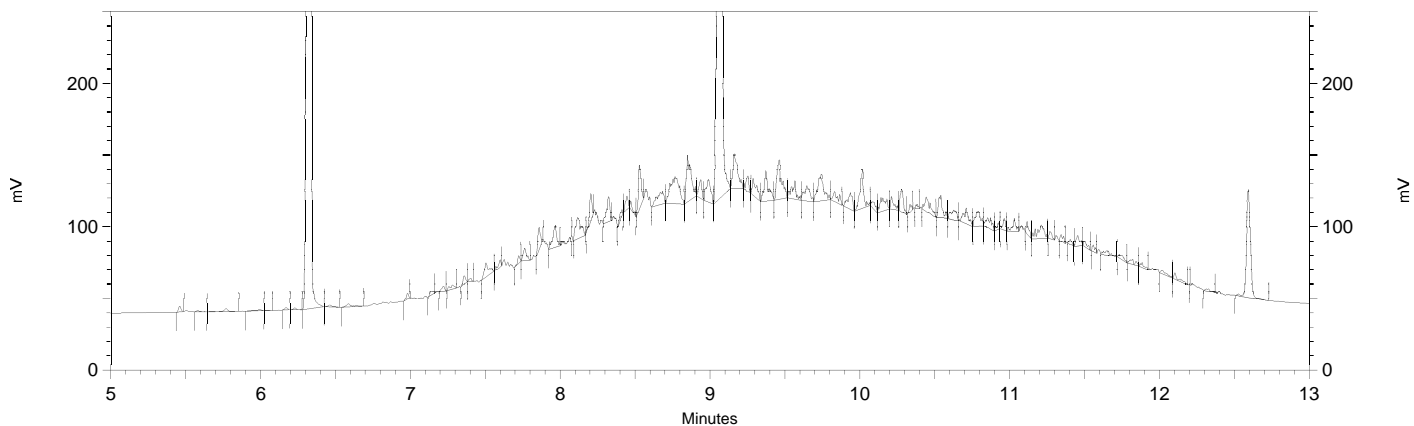
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.281	6.424	0
Yes	Split Peak	6.401	0	0
Yes	Manual Peak	9.023	9.337	0
Yes	Split Peak	9.118	0	0

Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b005
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 9:35:18 AM
 Analysis Date: 5/1/2019 10:09:14 AM
 Instrument: GC14B Vial: 5 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.333	2346518	47.363
Hexacosane	9.075	2016169	49.195



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
Yes Width                0          0    0.2
Yes Threshold            0          0   100
Yes Integration Off      0          2     0
Yes Valley to Valley     0         20     0
Yes Shoulder Sensitivity 0         20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b005
Enabled Event Type      Start      Stop
                          (Minutes) (Minutes) Value
-----
None
  
```

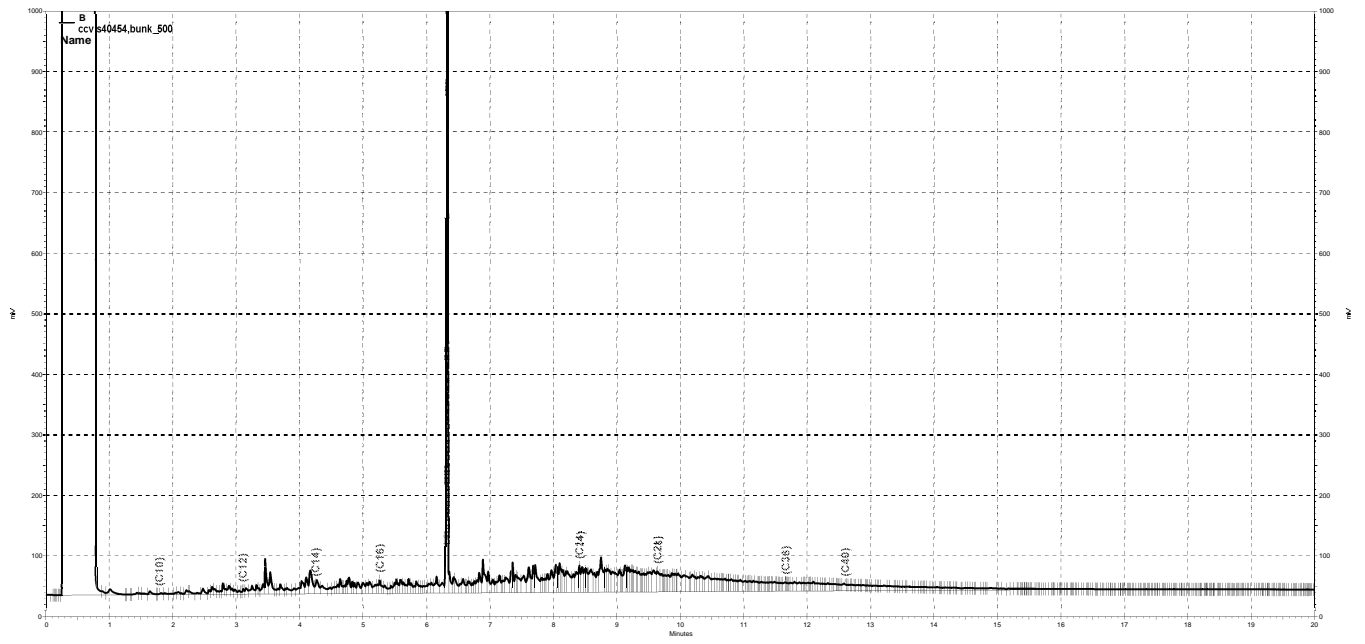
ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : BUNK_500 IDF : 1.0
 Seqnum : 229174702007 File : 121_007 Time : 01-MAY-2019 10:30
 Standards: S40454

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Bunker C C12-C40	B	229121391002	25-MAR-2019	22140	22327	500.0	504.2	mg/L	1	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	46233	50.00	46.66	mg/L	-7	15	

TKY 05/01/19 : Corrected automatically drawn baseline.

Analyst: TKY Date: 05/01/19 Reviewer: TKM Date: 05/02/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b007, B

Sample Name: ccv,s40454,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 10:30:15 AM
 Analysis Date: 5/1/2019 10:54:42 AM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2064999	55.470
DSL:10-14	1281183	91.142
DSL:10-22	7126304	190.579
DSL:10-24	8345422	217.058
DSL:10-28	10769944	274.845
DSL:12-24	8024063	238.562
DSL:12-28	10448585	303.978
DSL:14-24	7146121	276.303
DSL:16-24	6419078	361.055
MO:22-32	5366722	188.565
MO:24-36	5058844	168.212
MO:28-40	3345909	166.441
BUNKC:10-40	13796534	601.943
BUNKC:12-40	13475175	608.632

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

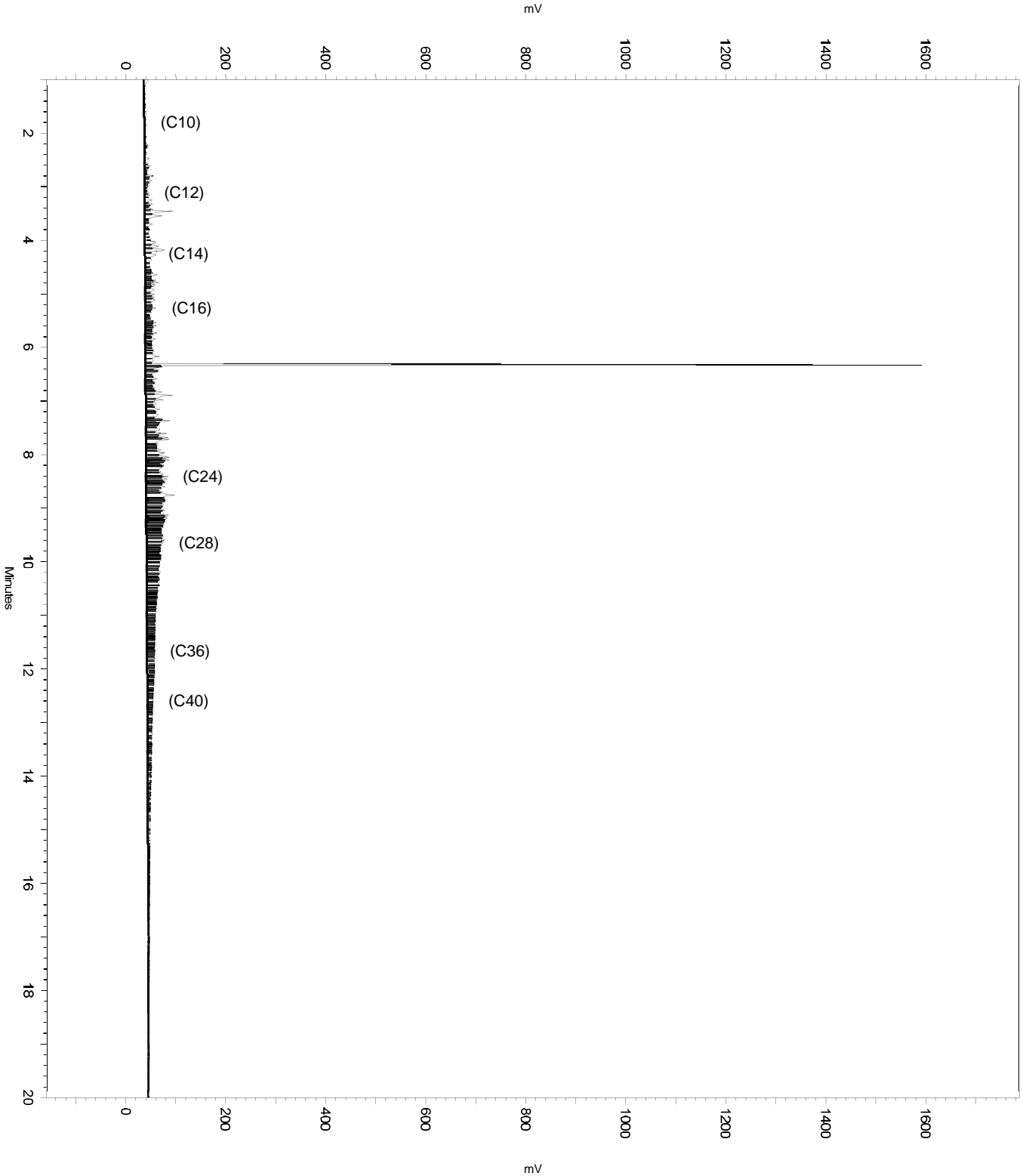
=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0          0
Yes Threshold            0          0         10
Yes Force Peak Stop     2.27       0          0
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b007
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
No Manual Peak          6.282     6.503     0
No Split Peak           6.354     0          0
  
```

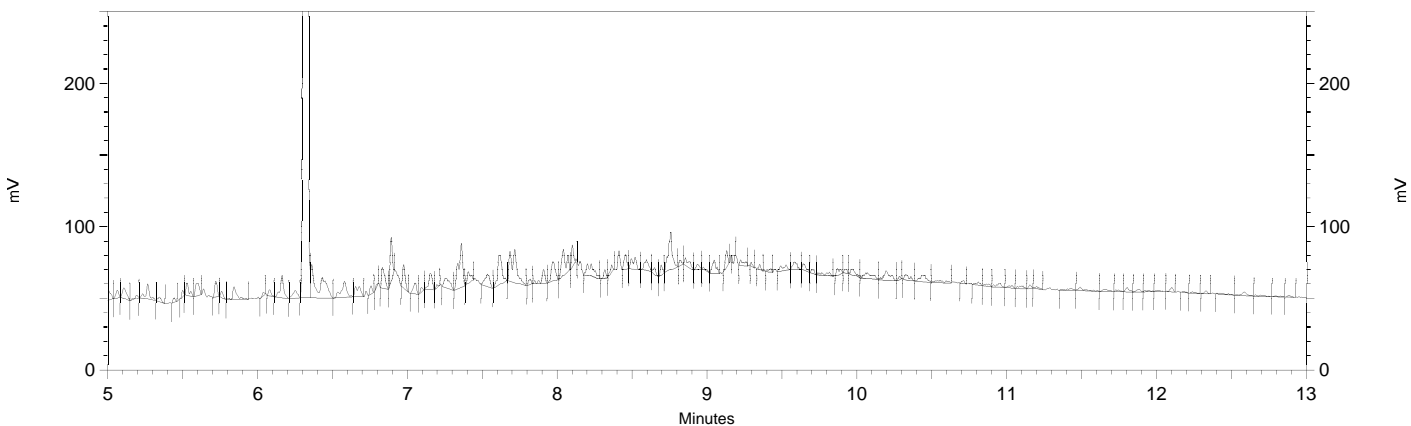
Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b007
Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 10:30:15 AM
Analysis Date: 5/1/2019 10:54:42 AM
Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 10:30:15 AM
 Analysis Date: 5/1/2019 10:53:59 AM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.332	2311642	46.659
Hexacosane	9.047	16852	0.411



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

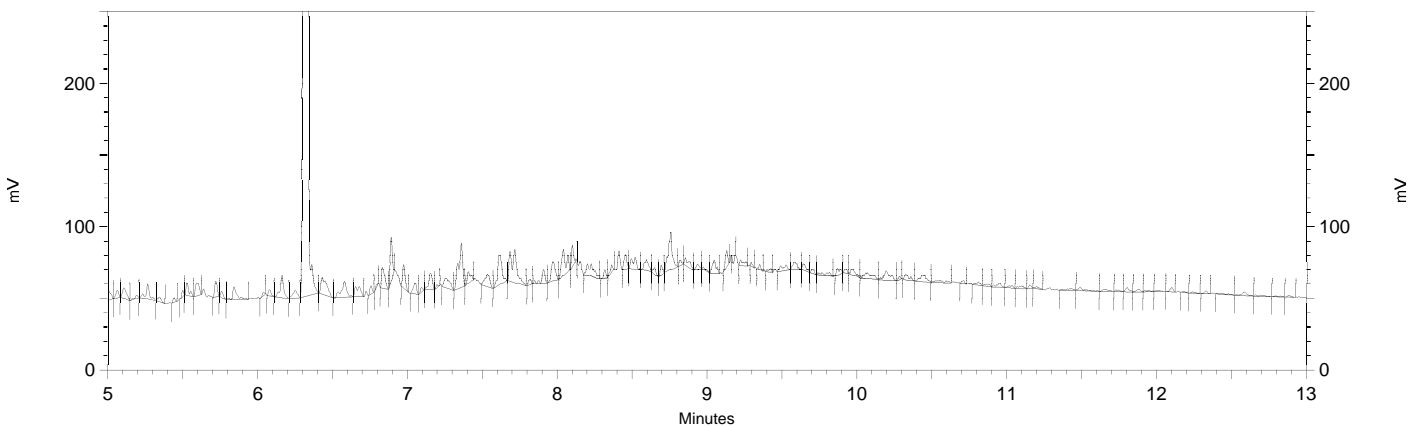
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.282	6.503	0
Yes	Split Peak	6.354	0	0

Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b007
 Sequence File: \\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 10:30:15 AM
 Analysis Date: 5/1/2019 10:53:45 AM
 Instrument: GC14B Vial: 7 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.332	2334594	47.122
Hexacosane	9.047	16852	0.411



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
Yes Width                0       0     0.2
Yes Threshold            0       0    100
Yes Integration Off      0       2       0
Yes Valley to Valley     0      20       0
Yes Shoulder Sensitivity  0      20     500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b007
Enabled Event Type      Start   Stop   Value
                        (Minutes) (Minutes)
-----
None
  
```

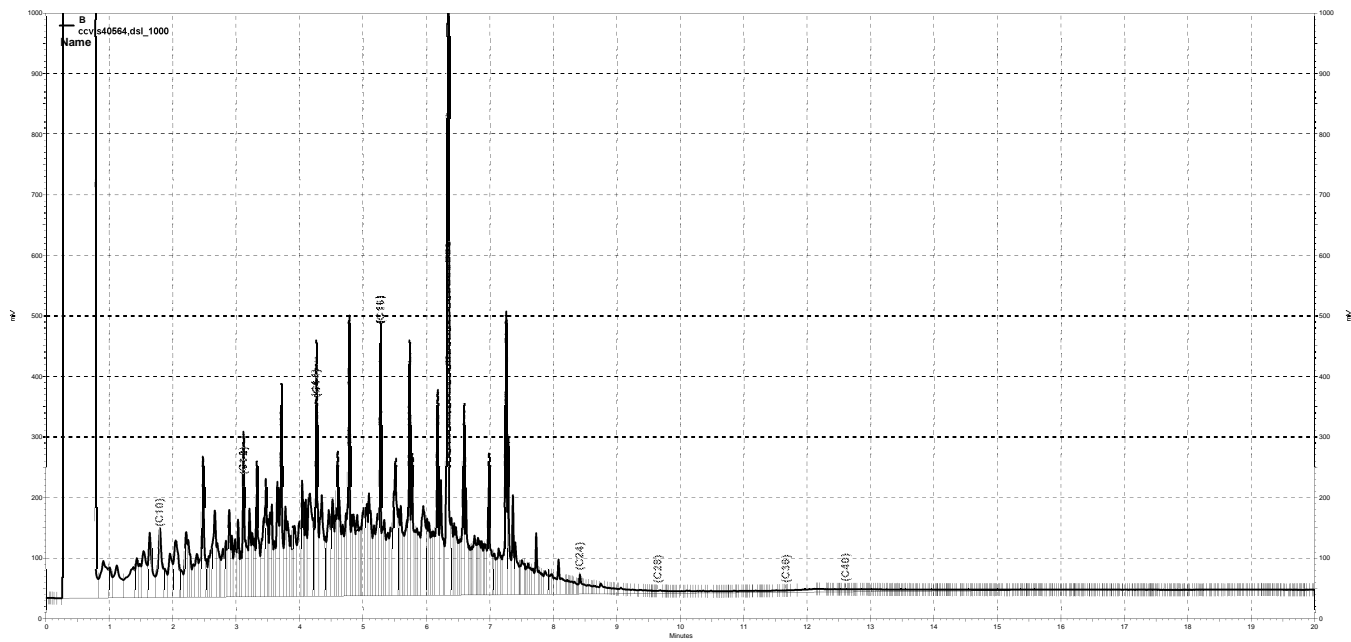

ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : DSL_1000 IDF : 1.0
 Seqnum : 229174702016 File : 121_016 Time : 01-MAY-2019 15:44
 Standards: S40564

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Diesel C10-C24	B	229137260002	05-APR-2019	38448	39811	1000	1035	mg/L	4	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	49505	50.00	49.96	mg/L	0	15	

CRC 05/01/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 05/01/19 Reviewer: TKM Date: 05/02/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b016, B

Sample Name: **ccv,s40564,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 3:44:07 PM
 Analysis Date: 5/1/2019 5:44:37 PM
 Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	23749766	637.970
DSL:10-14	15189949	1080.602
DSL:10-22	41226668	1102.528
DSL:10-24	42286140	1099.832
DSL:10-28	42859152	1093.749
DSL:12-24	36409508	1082.485
DSL:12-28	36982520	1075.923
DSL:14-24	28160884	1088.834
DSL:16-24	20043008	1127.363
MO:22-32	2266215	79.626
MO:24-36	1119029	37.209
MO:28-40	674270	33.541
BUNKC:10-40	43491576	1897.539
BUNKC:12-40	37614944	1698.952

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

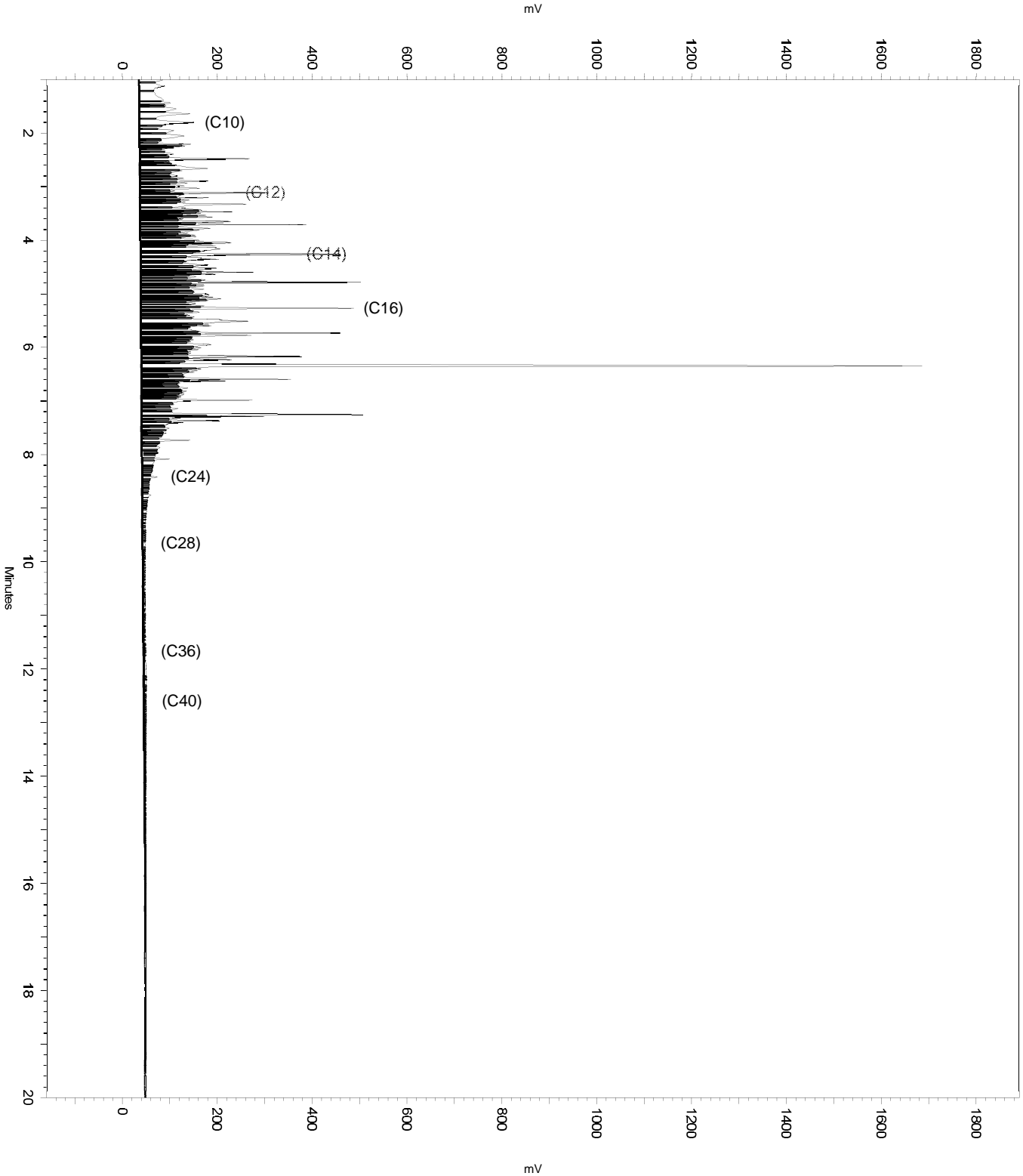
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	5.363	16.828	0
No	Manual Peak	6.292	6.499	0
No	Split Peak	6.384	0	0

Sample Name: ccv,s40564,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b016
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 3:44:07 PM
Analysis Date: 5/1/2019 5:44:37 PM
Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s40564,dsl_1000
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 3:44:07 PM
 Analysis Date: 5/1/2019 5:44:09 PM
 Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	10952072	294.196
DSL:10-14	7599290	540.608
DSL:10-22	18568604	496.581
DSL:10-24	18720586	486.909
DSL:10-28	18769200	478.983
DSL:12-24	15841102	470.969
DSL:12-28	15889720	462.276
DSL:14-24	11769622	455.070
DSL:16-24	8374058	471.017
MO:22-32	334458	11.752
MO:24-36	109193	3.631
MO:28-40	103183	5.133
BUNKC:10-40	18869360	823.271
BUNKC:12-40	15989866	722.213

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

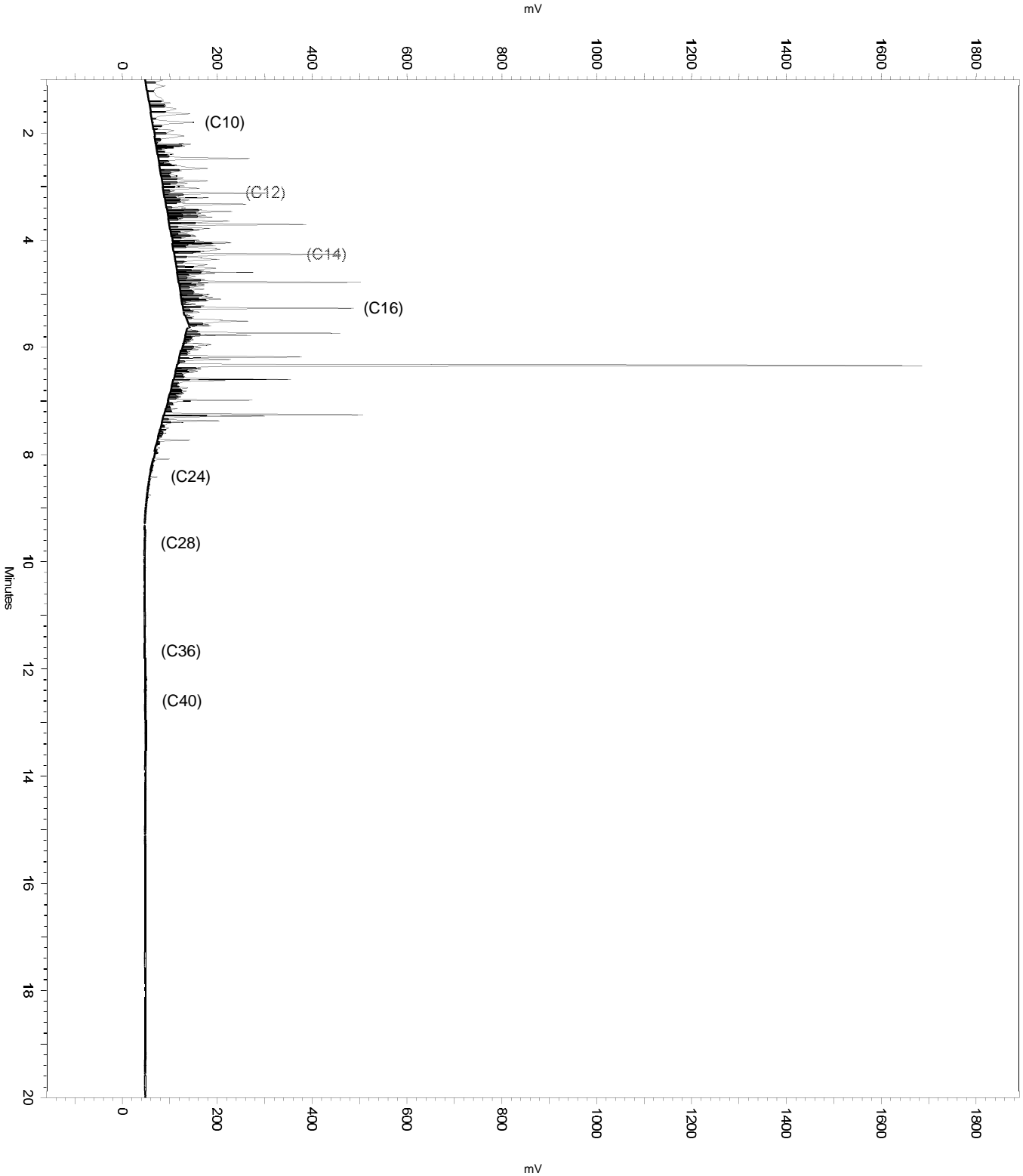
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.292	6.499	0
No	Split Peak	6.384	0	0

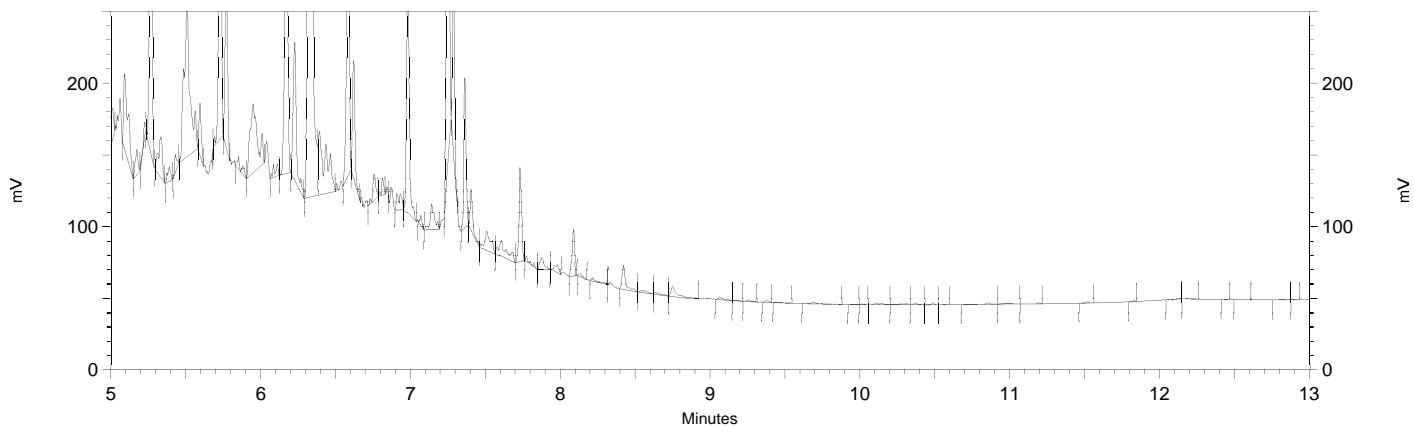
Sample Name: ccv,s40564,dsl_1000
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b016
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 3:44:07 PM
Analysis Date: 5/1/2019 5:44:09 PM
Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s40564,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 3:44:07 PM
 Analysis Date: 5/1/2019 5:41:38 PM
 Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.345	2475229	49.961
Hexacosane	9.065	6114	0.149



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

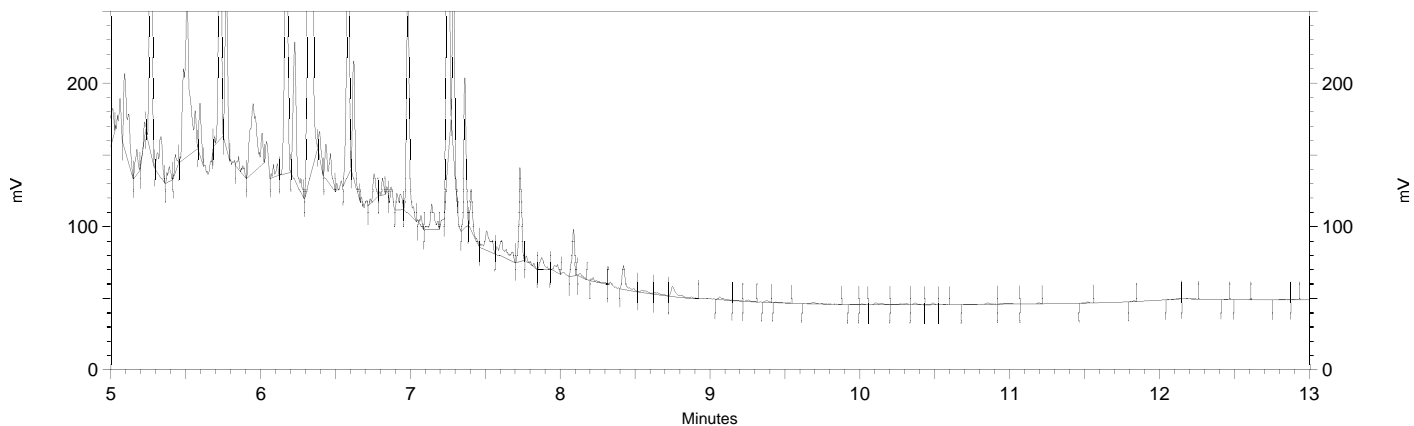
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.292	6.499	0
Yes	Split Peak	6.384	0	0

Sample Name: **ccv,s40564,dsl_1000**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b016
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 3:44:07 PM
 Analysis Date: 5/1/2019 5:41:18 PM
 Instrument: GC14B Vial: 16 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.345	2386070	48.161
Hexacosane	9.065	6114	0.149



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

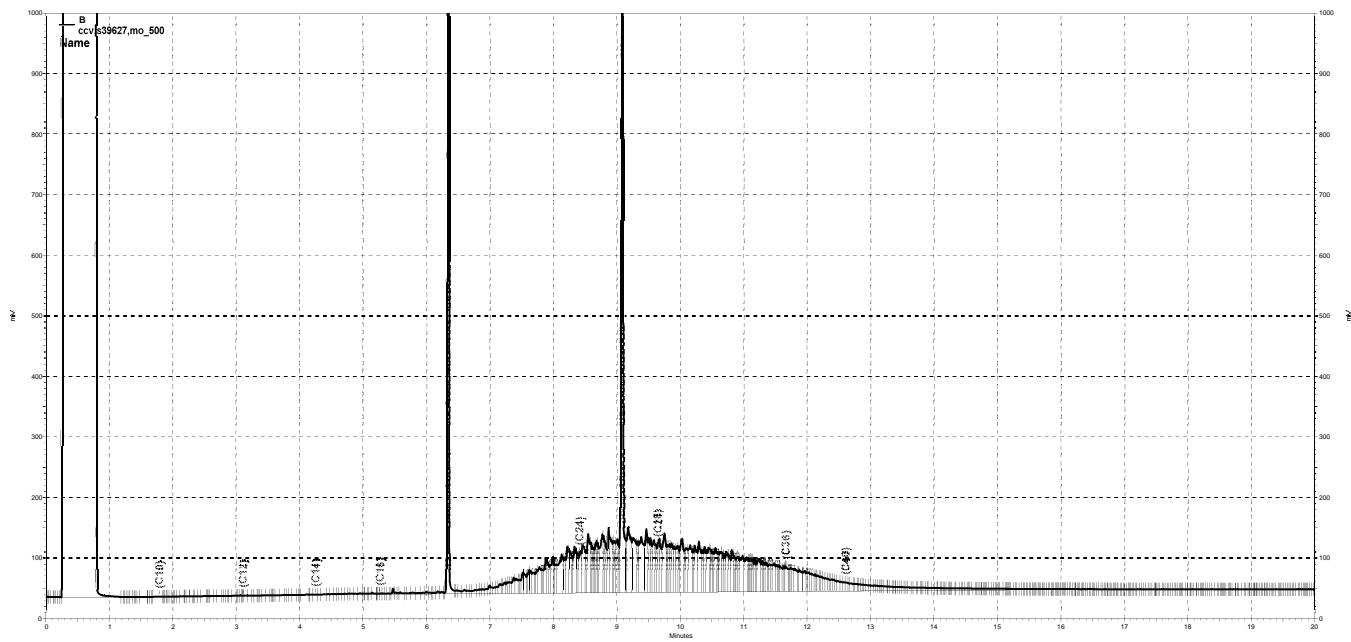
ENTHALPY CONTINUING CALIBRATION FOR 309066 GCSV Water
EPA 8015B

Inst : GC14B Run Name : MO_500 IDF : 1.0
 Seqnum : 229174702017 File : 121_017 Time : 01-MAY-2019 16:11
 Standards: S39627

Analyte	Ch	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
				RF/CF	RF/CF						
Motor Oil C24-C36	B	229137260003	05-APR-2019	30074	27684	500.0	460.3	mg/L	-8	15	
o-Terphenyl	B	229163216001	25-APR-2019	49544	46665	50.00	47.09	mg/L	-6	15	

CRC 05/01/19 : Corrected automatically drawn baseline.

Analyst: CRC Date: 05/01/19 Reviewer: TKM Date: 05/02/19



— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b017, B

Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 4:11:26 PM
 Analysis Date: 5/1/2019 5:45:16 PM
 Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	86414	2.321
DSL:10-14	19991	1.422
DSL:10-22	3831895	102.477
DSL:10-24	6222117	161.833
DSL:10-28	14158251	361.313
DSL:12-24	6211336	184.668
DSL:12-28	14147470	411.589
DSL:14-24	6203770	239.867
DSL:16-24	6145539	345.669
MO:22-32	15208604	534.370
MO:24-36	15803722	525.490
MO:28-40	9351515	465.188
BUNKC:10-40	22801144	994.815
BUNKC:12-40	22790364	1029.371

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

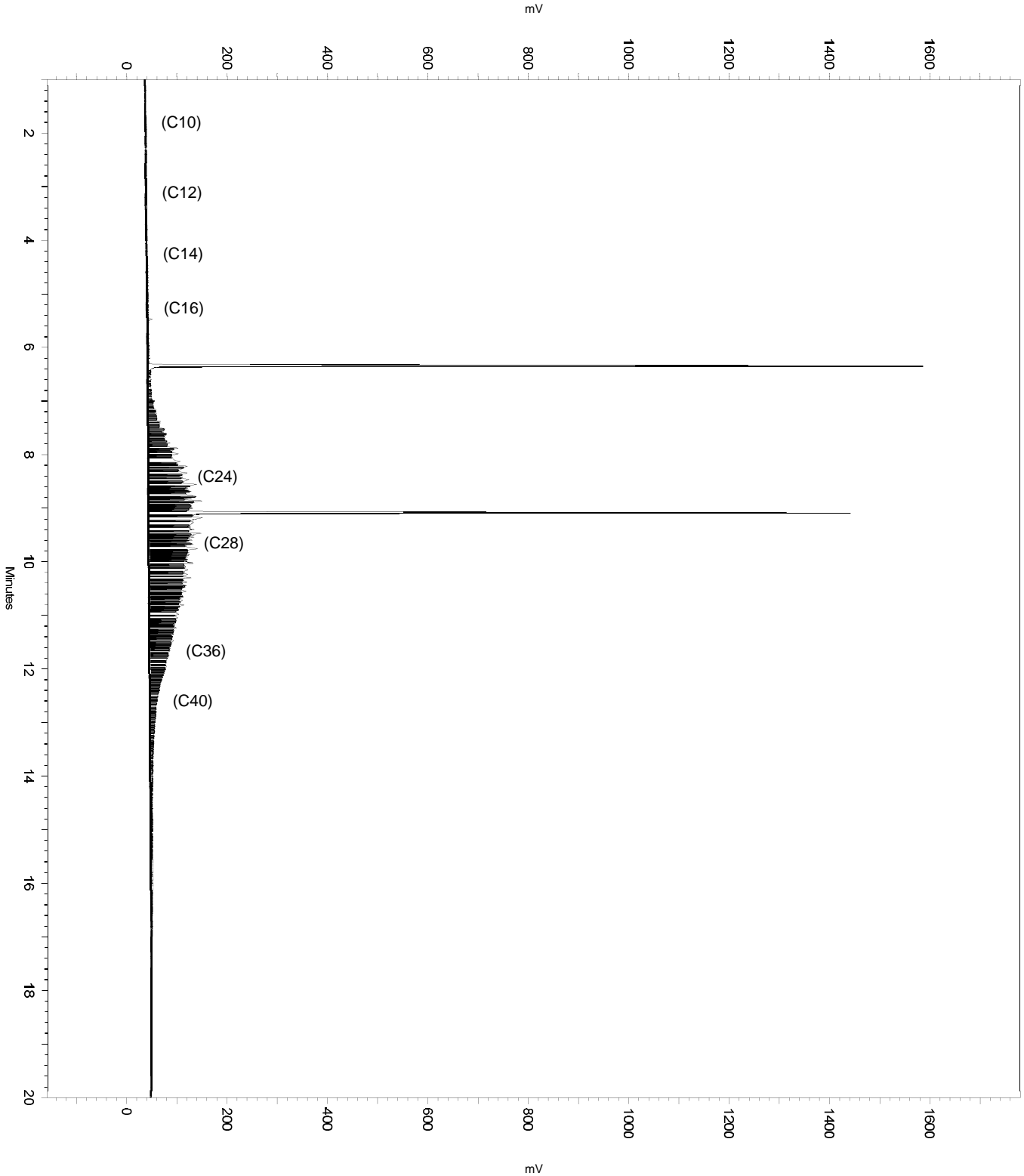
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	5.69	16.861	0
No	Manual Peak	6.293	6.549	0
No	Split Peak	6.441	0	0
No	Manual Peak	9.041	9.341	0
No	Split Peak	9.139	0	0

Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b017
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 4:11:26 PM
Analysis Date: 5/1/2019 5:45:16 PM
Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s39627,mo_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 4:11:26 PM
 Analysis Date: 5/1/2019 5:44:48 PM
 Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	55901	1.502
DSL:10-14	19555	1.391
DSL:10-22	3582576	95.809
DSL:10-24	5898984	153.428
DSL:10-28	13696897	349.540
DSL:12-24	5888203	175.061
DSL:12-28	13686116	398.167
DSL:14-24	5880637	227.374
DSL:16-24	5846217	328.833
MO:22-32	14846890	521.661
MO:24-36	15390126	511.737
MO:28-40	8939799	444.707
BUNKC:10-40	21945764	957.495
BUNKC:12-40	21934984	990.736

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

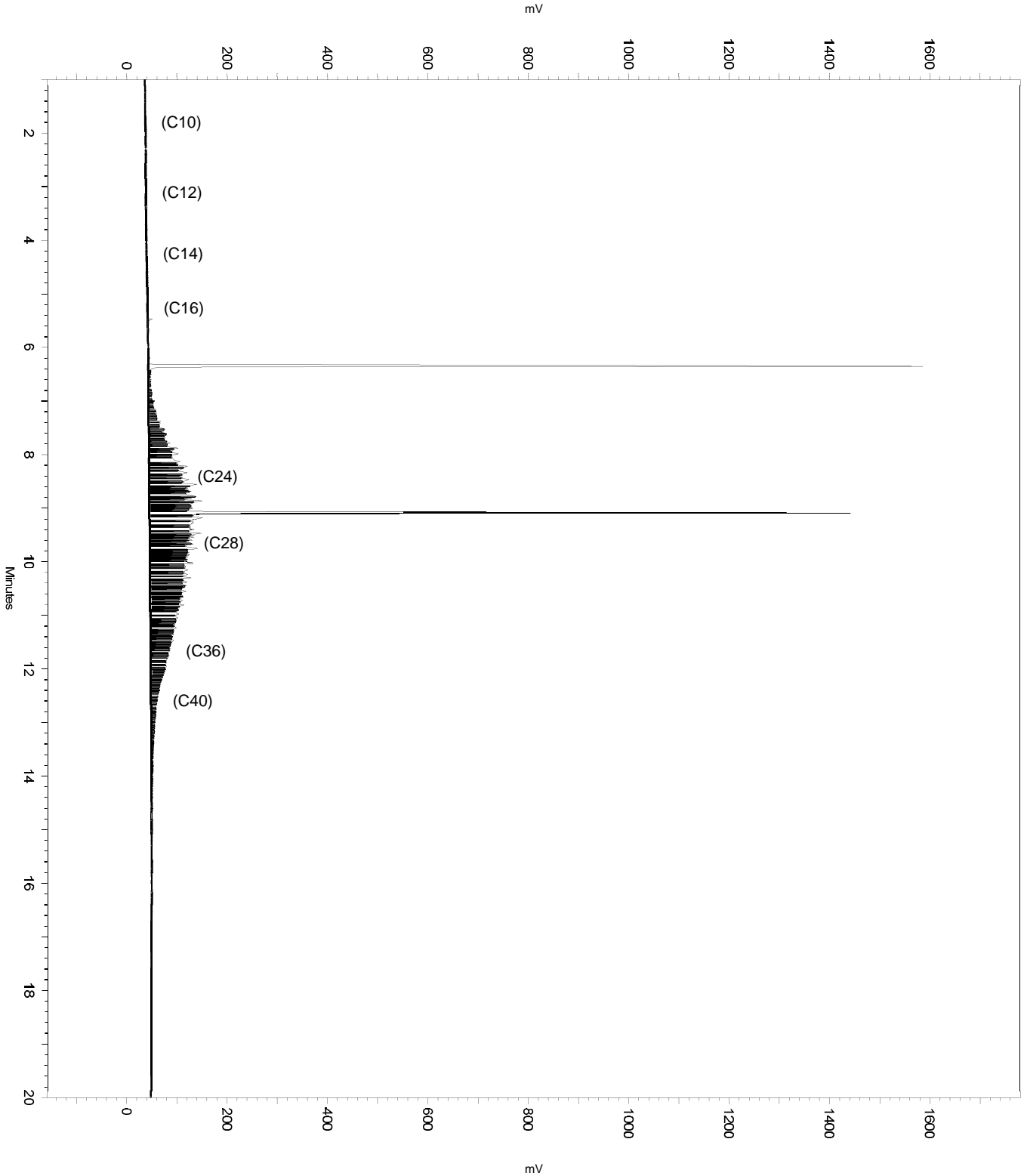
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.293	6.549	0
No	Split Peak	6.441	0	0
No	Manual Peak	9.041	9.341	0
No	Split Peak	9.139	0	0

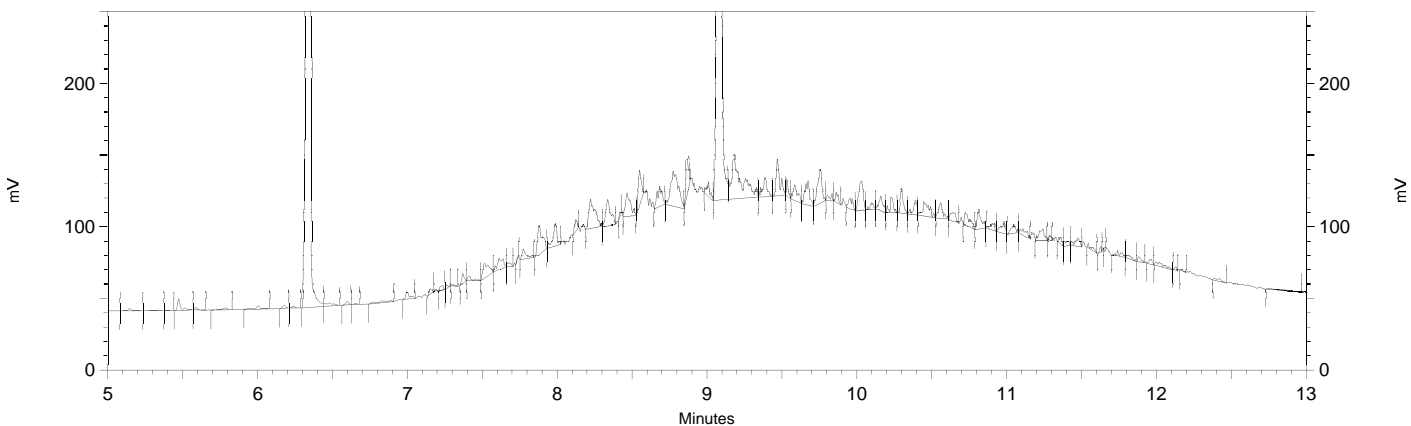
Sample Name: ccv,s39627,mo_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b017
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 4:11:26 PM
Analysis Date: 5/1/2019 5:44:48 PM
Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 4:11:26 PM
 Analysis Date: 5/1/2019 5:42:32 PM
 Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.350	2333244	47.095
Hexacosane	9.090	1961548	47.862



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

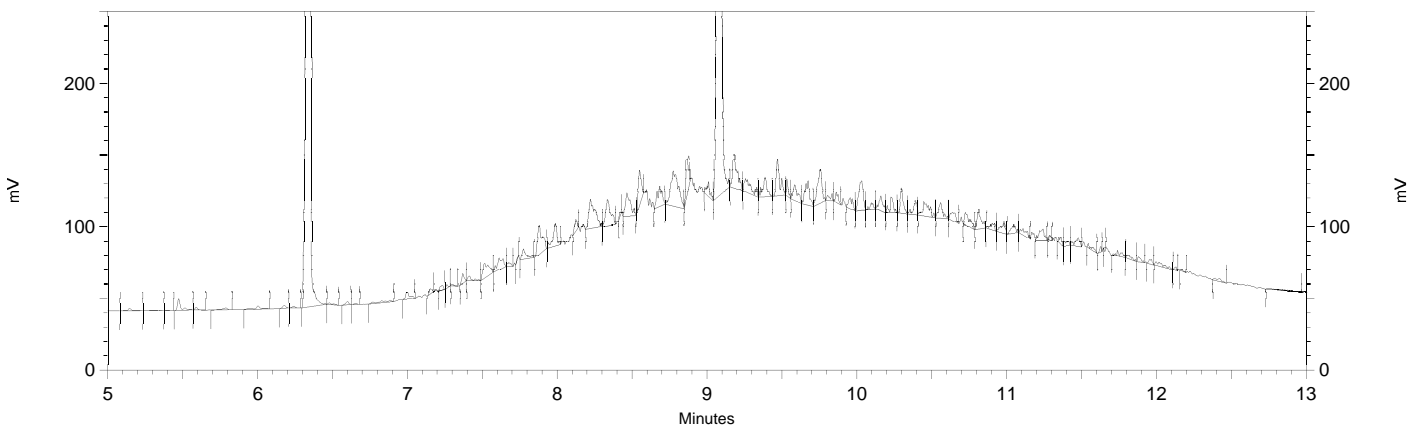
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.293	6.549	0
Yes	Split Peak	6.441	0	0
Yes	Manual Peak	9.041	9.341	0
Yes	Split Peak	9.139	0	0

Sample Name: **ccv,s39627,mo_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b017
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 4:11:26 PM
 Analysis Date: 5/1/2019 5:41:52 PM
 Instrument: GC14B Vial: 17 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.350	2328524	46.999
Hexacosane	9.090	1942084	47.387



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

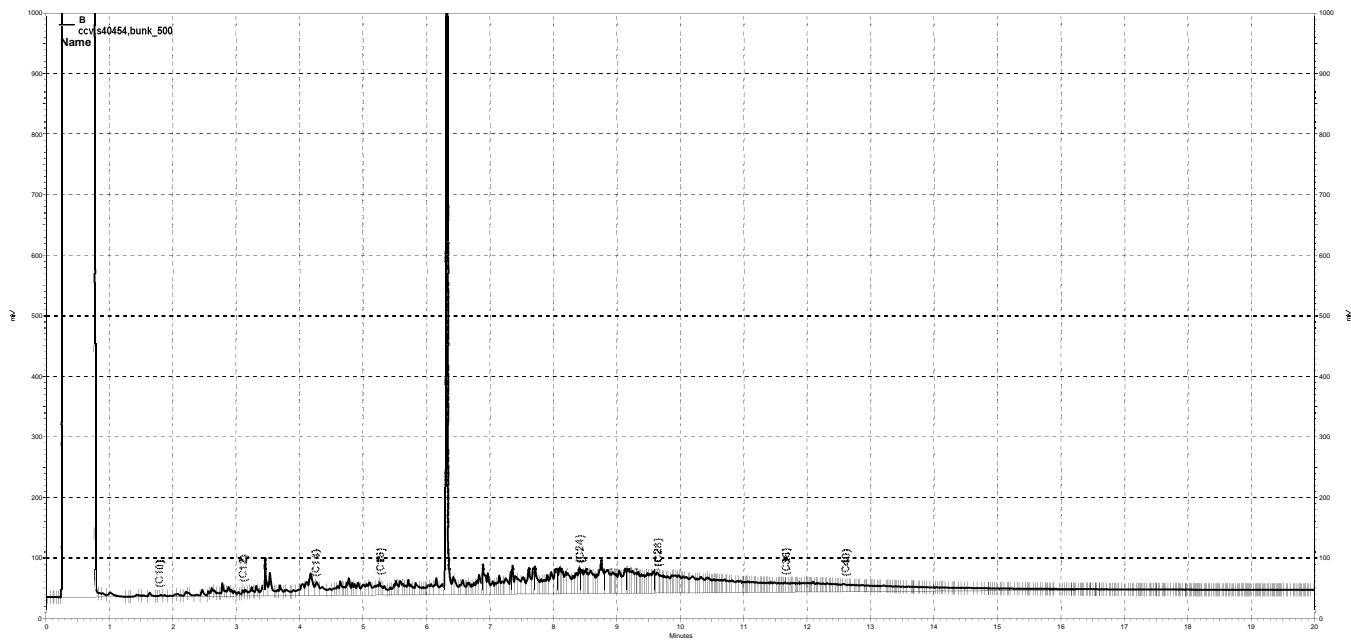
```

=====
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
Yes Width                0          0         0.2
Yes Threshold            0          0        100
Yes Integration Off      0          2          0
Yes Valley to Valley     0         20          0
Yes Shoulder Sensitivity 0         20         500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b017
Enabled Event Type      Start      Stop      Value
                        (Minutes) (Minutes)
-----
None
  
```

— \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b019, B

Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 5:06:52 PM
 Analysis Date: 5/1/2019 5:46:30 PM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2196991	59.016
DSL:10-14	1318334	93.785
DSL:10-22	7361921	196.880
DSL:10-24	8655153	225.114
DSL:10-28	10999447	280.702
DSL:12-24	8322255	247.428
DSL:12-28	10666549	310.319
DSL:14-24	7423837	287.041
DSL:16-24	6602760	371.387
MO:22-32	5365968	188.539
MO:24-36	5073231	168.690
MO:28-40	3431012	170.674
BUNKC:10-40	14119553	616.037
BUNKC:12-40	13786655	622.701

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

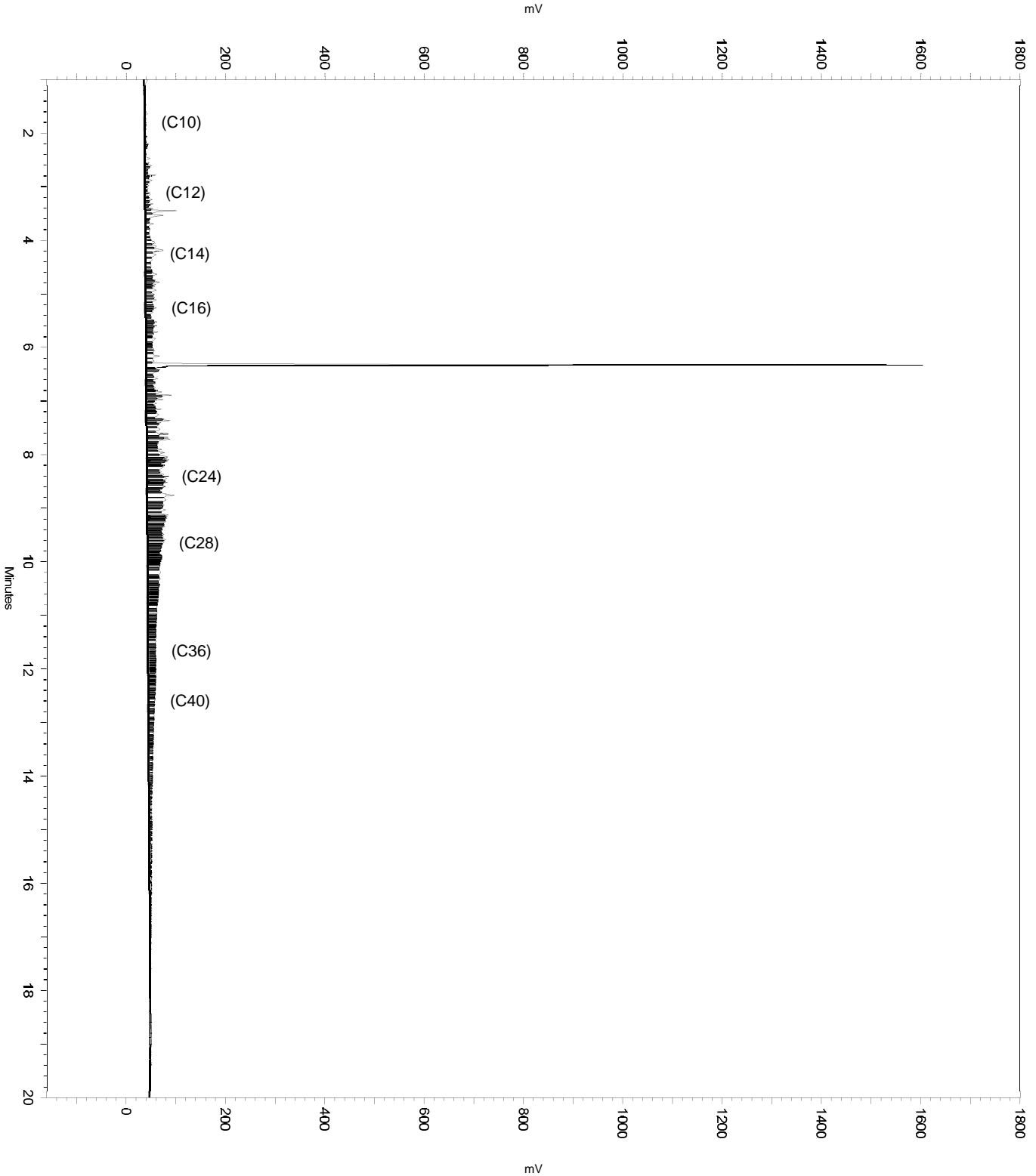
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.275	6.497	0
No	Split Peak	6.395	0	0
Yes	Move BL Stop	16.468	17.514	0

Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b019
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 5:06:52 PM
Analysis Date: 5/1/2019 5:46:30 PM
Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: ccv,s40454,bunk_500
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
 Run Date: 5/1/2019 5:06:52 PM
 Analysis Date: 5/1/2019 5:46:15 PM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B

TEH - FID Instrument Results

B Results Name	Area	Concentration (ppm)
JP5:10-16	2144453	57.605
DSL:10-14	1287273	91.576
DSL:10-22	7242560	193.688
DSL:10-24	8510897	221.362
DSL:10-28	10807860	275.813
DSL:12-24	8189388	243.477
DSL:12-28	10486351	305.077
DSL:14-24	7309107	282.605
DSL:16-24	6507052	366.004
MO:22-32	5242032	184.184
MO:24-36	4927047	163.829
MO:28-40	3282322	163.278
BUNKC:10-40	13786349	601.499
BUNKC:12-40	13464840	608.166

 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

=====

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

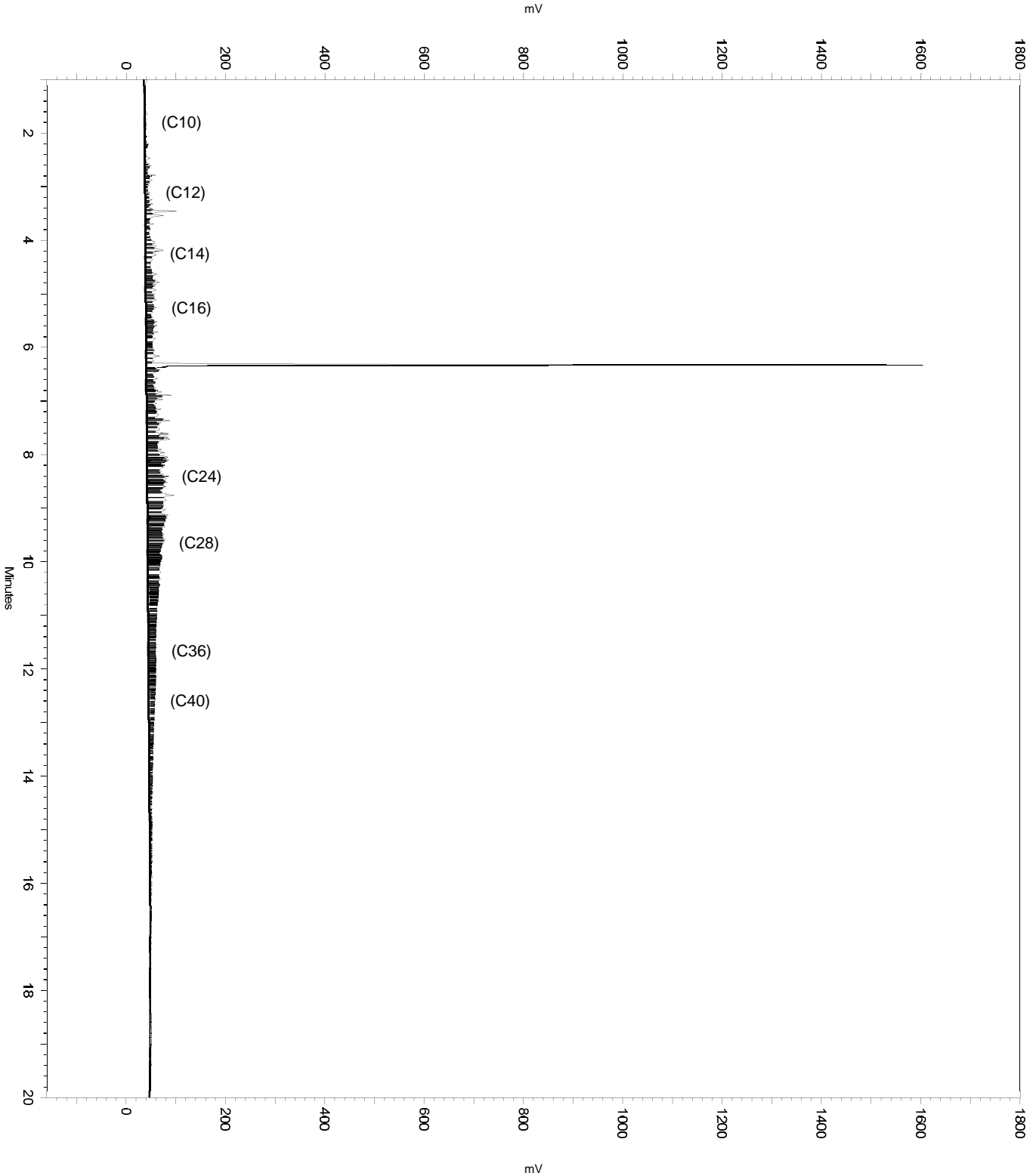
Manual Integration Fixes

=====

Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
No	Manual Peak	6.275	6.497	0
No	Split Peak	6.395	0	0

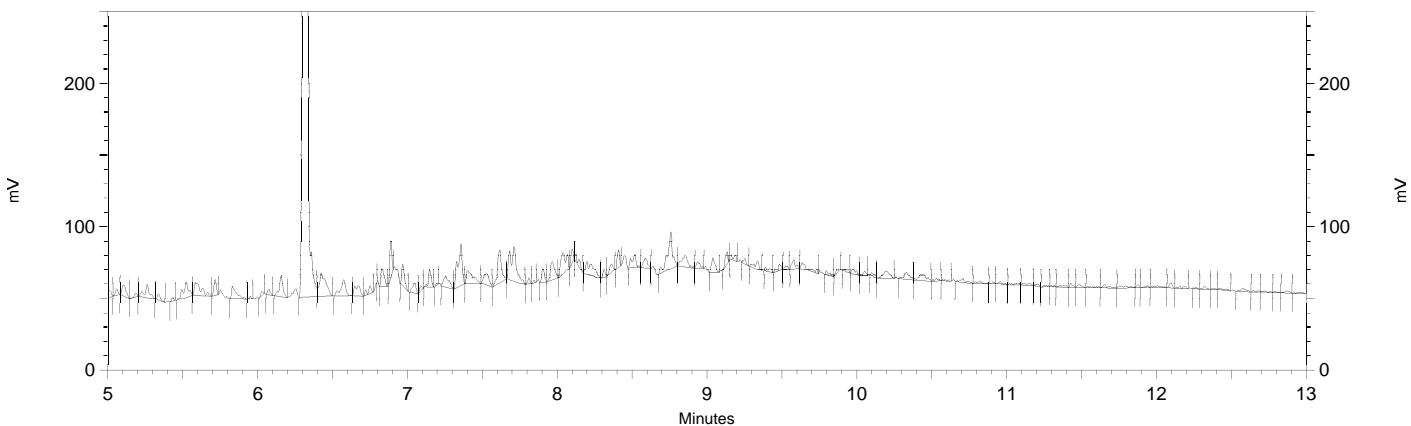
Sample Name: ccv,s40454,bunk_500
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b019
Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\TEH_121.met
Run Date: 5/1/2019 5:06:52 PM
Analysis Date: 5/1/2019 5:46:15 PM
Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
Sample Amount: 1



Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 5:06:52 PM
 Analysis Date: 5/1/2019 5:43:37 PM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.328	2445503	49.361
Hexacosane	9.038	17680	0.431



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```
=====
```

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

```
=====
```

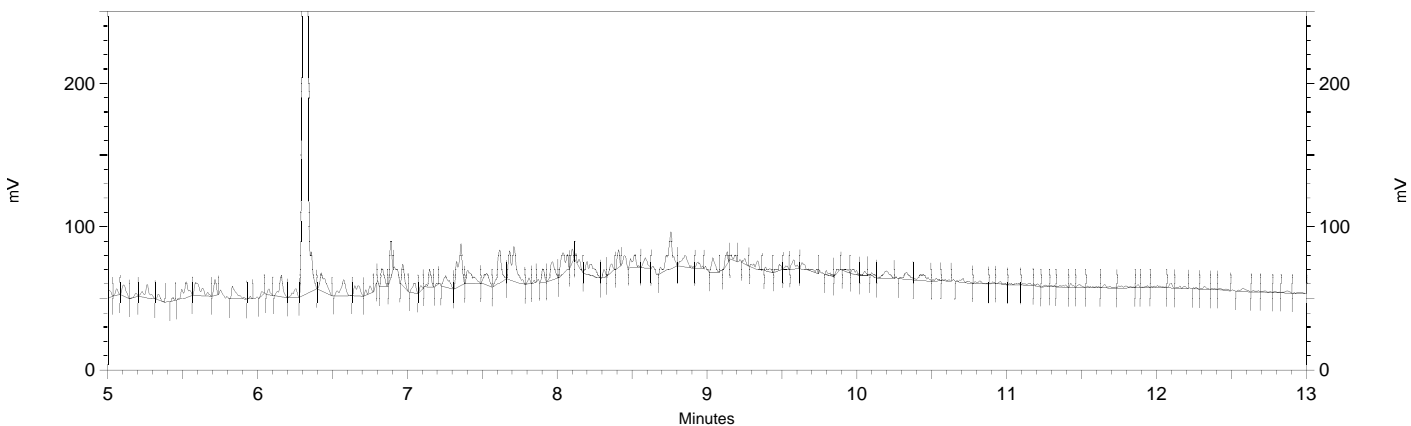
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Peak	6.275	6.497	0
Yes	Split Peak	6.395	0	0

Sample Name: **ccv,s40454,bunk_500**
 Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b019
 Sequence File: \\kraken\gdrive\ezchrom\Projects\GC14B\Sequence\2019\121.seq
 Software Version 3.1.7
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bothsurr_121.met
 Run Date: 5/1/2019 5:06:52 PM
 Analysis Date: 5/1/2019 5:43:15 PM
 Instrument: GC14B Vial: 19 Operator: teh analyst (lims2k3\teh)
 Sample Amount: 1

GC14B
TEH - FID Instrument Results

B Results Component Name	Retention Time	Area	Concentration (ppm)
o-Terphenyl	6.328	2428022	49.008
Hexacosane	9.038	17680	0.431



 ---< General Method Parameters >-----

No items selected for this section

 ---< B >-----

No items selected for this section

Integration Events

```

=====
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
Yes Width                0       0    0.2
Yes Threshold            0       0   100
Yes Integration Off      0       2     0
Yes Valley to Valley     0      20     0
Yes Shoulder Sensitivity 0      20   500
  
```

Manual Integration Fixes

```

=====
Data File: \\kraken\gdrive\ezchrom\Projects\GC14B\Data\2019\121b019
Enabled Event Type      Start   Stop
                        (Minutes) (Minutes) Value
-----
None
  
```




Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 309066

ANALYTICAL REPORT

Wet Chemistry

TRC Solutions Inc.
505 Sansome St
San Francisco, CA 94111

Project : 285830.02A.01
Location : Riley Soil Investigation
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	309066-001
BR11-1GW02	309066-002
BR11-1GW03	309066-003
DUP04182019-01	309066-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 05/13/2019

Haley Campbell
Project Manager
haley.campbell@enthalpy.com
(510) 204-2223 Ext 13105

CA ELAP# 2896, NELAP# 4044-001

**CASE NARRATIVE
WET CHEMISTRY (SM2540C)**

Laboratory number: 309066
Client: TRC Solutions Inc.
Project: 285830.02A.01
Location: Riley Soil Investigation
Request Date: 04/18/19
Samples Received: 04/18/19

This data package contains sample and QC results for four water samples, requested for the above referenced project on 04/18/19. See attached cooler receipt form for any sample receipt problems or discrepancies.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 309006 Client: TRC
 Date Received: 4/18/19 Project: _____

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun #. A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 4/18/19 By (print) RV (sign) RV
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: **Important : Notify PM if temperature exceeds 6°C or arrive frozen.**
 Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used : Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 3.8, #2: 2.1, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	/		
Were Method 5035 sampling containers present?		/	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm absent in VOA samples?			/
Was the client contacted concerning this sample delivery?			/
If YES, who was called? _____ By _____ Date: _____			/

Section 5: YES NO N/A
 Are the samples appropriately preserved? (if N/A, skip the rest of section 5) _____
 Did you check preservatives for all bottles for each sample? _____
 Did you document your preservative check? _____
 pH strip lot# _____, pH strip lot# _____, pH strip lot# _____
 Preservative added:
 H2SO4 lot# _____ added to samples _____ on/at _____
 HCL lot# _____ added to samples _____ on/at _____
 HNO3 lot# _____ added to samples _____ on/at _____
 NaOH lot# _____ added to samples _____ on/at _____

Section 6:
 Explanations/Comments: 1/1 VOAS arrived w/ bubbles for Sample "005"

Date Logged in 4/18/19 By (print) RV (sign) RV
 Date Labeled 4-18-19 By (print) RV (sign) RV

Results & QC Summary

Total Dissolved Solids (TDS)			
Lab #:	309066	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	METHOD
Project#:	285830.02A.01	Analysis:	SM2540C
Analyte:	Total Dissolved Solids	Sampled:	04/18/19
Matrix:	Water	Received:	04/18/19
Units:	mg/L	Prepared:	04/23/19
Diln Fac:	1.000	Analyzed:	04/26/19
Batch#:	269831		

Field ID	Type	Lab ID	Result	RL
BR11-1GW01	SAMPLE	309066-001	520	10
BR11-1GW02	SAMPLE	309066-002	380	10
BR11-1GW03	SAMPLE	309066-003	820	10
DUP04182019-01	SAMPLE	309066-004	350	10
	BLANK	QC973158	ND	10

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	309066	Location:	Riley Soil Investigation
Client:	TRC Solutions Inc.	Prep:	METHOD
Project#:	285830.02A.01	Analysis:	SM2540C
Analyte:	Total Dissolved Solids	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	269831
Matrix:	Water	Prepared:	04/23/19
Units:	mg/L	Analyzed:	04/26/19

Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Sampled	Received
BS		QC973159		100.0	88.00		88	80-121				
BSD		QC973160		100.0	90.00		90	80-121	2	5		
SDUP	309112-001	QC973161	344.0		348.0	10.00			1	5	04/21/19	04/22/19
SDUP	309073-021	QC973162	2,094		2,088	10.00			0	5	04/18/19	04/18/19

RL= Reporting Limit

RPD= Relative Percent Difference



Enthalpy Analytical - Berkeley Sample Batch Report

Batch Number: 269831
 Date Started: 23-APR-2019
 Batched by : Isis Ruele

Analysis : TDS
 Bgroup : N/A
 Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
309066-001		TRC Solutions Inc.	Water	TDS	26-APR-2019
309066-002		TRC Solutions Inc.	Water	TDS	26-APR-2019
309066-003		TRC Solutions Inc.	Water	TDS	26-APR-2019
309066-004		TRC Solutions Inc.	Water	TDS	26-APR-2019
309073-021		Wood E&I Solutions	Water	TDS	25-APR-2019
309073-022		Wood E&I Solutions	Water	TDS	25-APR-2019
309073-023		Wood E&I Solutions	Water	TDS	25-APR-2019
309073-024		Wood E&I Solutions	Water	TDS	25-APR-2019
309073-025		Wood E&I Solutions	Water	TDS	25-APR-2019
309112-001		Jacobs	Water	TDS	26-APR-2019
309120-001		Jacobs	Water	TDS	24-APR-2019
QC973158	BLANK		Water	TDS	
QC973159	BS		Water	TDS	
QC973160	BSD		Water	TDS	
QC973161	SDUP	of 309112-001	Water	TDS	
QC973162	SDUP	of 309073-021	Water	TDS	

Analysis: **Total Dissolved Solid** Analyst: IR1 Filtration Date: 4/23/19 13:07 (B): (C):
 Method: SMWW 2540C Batch #: 269831 Analysis Date: 4/26/19 8:55 (C):
 SOP#: tds_iv 14.doc Matrix: Water

Sample	Sample #	.PD	.AD	Vol (mL)	Sample Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	Report (mg/L)	Reporting Limit (mg/L)	Spike Vol. Used (mL)	Spike Std Conc (mg/L)	%Rec.	RPD,%
BLANK	QC973158	A	A	50	68.8155	68.8145	-0.0010	ND	10				
LCS/BS	QC973159	A	A	50	67.1752	67.1796	0.0044	88.0	10	50	100.0	100.0	88
BSD	QC973160	A	A	50	60.3560	60.3605	0.0045	90.0	10	50	100	100	90
Sample1	309112-001	A	A	50	67.8025	67.8197	0.0172	344.0	10				2
SDUP 1	QC973161	A	A	50	65.0724	65.0898	0.0174	348.0	10				1
Sample11	309073-021	A	A	50	70.4126	70.5173	0.1047	2,094.0	10				
SDUP 2	QC973162	A	A	50	69.5456	69.6500	0.1044	2,088.0	10				0
Sample2	309073-022	A	A	50	69.5817	69.6905	0.1088	2,176.0	10				
Sample3	309073-023	A	A	50	59.9666	60.0704	0.1038	2,076.0	10				
Sample4	309073-024	A	A	50	70.7125	70.8165	0.1040	2,080.0	10				
Sample5	309073-025	A	A	50	67.9782	68.0856	0.1074	2,148.0	10		LCS/BS/BS	5	80 - 121
Sample6	309120-001	A	A	50	68.9188	68.9870	0.0682	1,364.0	10		SDUP	5	70 - 131
Sample7	309066-001	A	A	50	70.9999	71.0161	0.0262	524.0	10				
Sample8	309066-002	A	A	50	68.5420	68.5609	0.0189	378.0	10				
Sample9	309066-003	A	A	50	68.1729	68.2140	0.0411	822.0	10				
Sample10	309066-004	A	A	50	67.8527	67.8702	0.0175	350.0	10				
Sample12													
Sample13													
Sample14													
Sample15													
Sample16													
Sample17													
Sample18													
Sample19													
Sample20													

TDS (mg/L) = (Constant Wt (g) - Initial Wt (g)) * 1,000,000 / Sample Vol (mL)

TDS by SMWW 2540C
 Total Solids by SMWW 2540B

Enthalpy Analytical LLC - Berkeley
v 7.3, July 2017

LIMS Batch #: 269831
Filtered by: JHL

Prep Date: 4/23/19
Prep Time: 13:07

Benchbook#: **BK 4413**
Page: **13**

EC Meter ID: FC-01
Cal Std S#: 35175 exp: 8/31/19
Std (uS/cm): 1000
Vol Used (mL): 50
Final Vol (mL): 50

Filter Mfg/ Lot#: 600021-9089-00 Spike Std LIMS#: 39976
Std Exp Date: 3/31/21
Balance ID: 91 Spike Std Conc (mg/L): 100
Balance is calibrated? Yes No Spike Std Vol Added (mL): 50
Pipette ID/lot#: -

	In	Out	In-2	Out-2	In-3	Out-3
Date:	<u>4/24/19</u>	<u>04/26/19</u>	<u>04/26/19</u>	<u>04/26/19</u>		
Time:	<u>17:34</u>	<u>08:55</u>	<u>10:10</u>	<u>11:10</u>		
Min/Max Range (°C):	<u>95</u>	<u>185</u>	<u>15</u>	<u>185</u>	<u>610</u>	
Thermometer ID:	<u>WCH4</u>	<u>WCH</u>	<u>WCH</u>	<u>WCH</u>		
Weighed by:		<u>EM</u>		<u>EM</u>		

Sample #	Container ID	EC Value (uS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt (g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
MB	-	-	50	PAL	68.8155	68.8148	68.8145	-
MS	-	-	50	PLUM	67.1752	67.1797	67.1796	-
PST	-	-		VST	60.3560	60.3607	60.3605	-
09102-001	H	681		VELL	67.8025	67.8193	67.8197	-
↓ SDR	G	681		ZOB	65.0724	65.0900	65.0898	-
09100-004	L	3410		DOG	70.4126	70.5168	70.5173	-
↓ SDR	E	3410		LOST	69.5456	69.6497	69.6500	-
09103-021	L	3410						DR 4/23/19
09103-022		3540		KBQ	69.5817	69.6900	69.6905	-
↓ -023		3370		BON	59.9666	60.0699	60.0704	-
↓ -024		3300		HOST	70.7125	70.8166	70.8165	-
↓ -025		3570	PIOKI	67.9782	68.0854	68.0856	-	
09120-001	J	2403	RATE	68.9188	68.9869	68.9870	-	
091060-001	F	922	FE2B	70.9899	71.0156	71.0161	-	
↓ -002	E	565	BASS	68.5420	68.5604	68.5609	-	
↓ -003	E	1401	MOHP	68.1729	68.2145	68.2140	-	
↓ -004		563	LANX	67.8527	67.8698	67.86702	-	
<div style="display: flex; justify-content: space-between; align-items: center;"> EM <u>4/23/19</u> </div>								

* Constant weight must be within 0.0005 from previous reading.

Jesse Palle 4/23/19
Analyst / Date

Continued on p. _____
Continued from p. _____

Kp 4-26-19
Reviewed by / Date

PROJECT _____

Continued From Page _____

DATE	ANALYST	0.5000g	100.0000g	SET #	LEVEL
03/20/19	PGH	0.5000	99.9978	A306	Y
03/21/19	PGH	0.5000	99.9977	A306	Y
03/22/19	PGH	0.5000	99.9975	A306	Y
03/25/19	EW	0.5000	99.9984	A306	Y
03/26/19	MS	0.5000	99.9987	A306	Y
03/27/19	MS	0.5000	99.9985	A306	Y
03/28/19	PGH	0.5000	99.9976	A306	Y
3/29/19	MDM	0.5000	99.9993	A306	Y
03/30/19	PGH	0.5000	99.9975	A306	Y
04/01/19	MS	0.5000	99.9990	A306	Y
04/02/19	EW	0.4999	99.9982	A306	Y
04/03/19	IR	0.4999	99.9975	A306	Y
04/04/19	PGH	0.5000	99.9978	A306	Y
04/15/19	IR	0.5000	99.9990	A306	Y
4/16/19	MDM	0.5000	99.9993	A306	Y
04/08/19	EW	0.5000	99.9995	A306	Y
04/09/19	PGH	0.5000	99.9980	A306	Y
04/10/19	IR	0.4999	99.9987	A306	Y
04/11/19	IR	0.5000	99.9989	A306	Y
04/12/19	PGH	0.5000	99.9984	A306	Y
4/13/19	MDM	0.5000	99.9989	A306	Y
4/15/19	IR	0.4999	99.9988	A306	Y
4/16/19	IR	0.5000	99.9990	A306	Y
4/17/19	PGH	0.5000	99.9986	A306	Y
4/18/19	PGH	0.5000	99.9987	A306	Y
4/19/19	IR	0.4999	99.9997	A306	Y
4/22/19	IR	0.4999	99.9995	A306	Y
4/23/19	IR	0.4999	100.0001	A306	Y
04/24/19	PGH	0.4999	99.9976	A306	Y
04/25/19	PGH	0.5000	99.9989	A306	Y
04/26/19	PGH	0.5000	99.9992	A306	Y

Continued on Page _____

Read and Understood By _____

Signed _____

Date _____

Signed _____

Date _____



Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 309066

ANALYTICAL REPORT

Subcontracted Products

TRC Solutions Inc.
505 Sansome St
San Francisco, CA 94111

Project : 285830.02A.01
Location : Riley Soil Investigation
Level : IV

<u>Sample ID</u>	<u>Lab ID</u>
BR11-1GW01	309066-001
BR11-1GW02	309066-002
BR11-1GW03	309066-003
DUP04182019-01	309066-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Haley Campbell
Project Manager

haley.campbell@enthalpy.com
(510) 204-2223 Ext 13105

Date: 05/13/2019

CA ELAP# 2896, NELAP# 4044-001

**CASE NARRATIVE
SUBCONTRACTED PRODUCTS (EPA 8270 SIM)**

Laboratory number: 309066
Client: TRC Solutions Inc.
Project: 285830.02A.01
Location: Riley Soil Investigation
Request Date: 04/18/19
Samples Received: 04/18/19

This data package contains sample and QC results for four water samples, requested for the above referenced project on 04/18/19. See attached cooler receipt form for any sample receipt problems or discrepancies.

(EPA 8270 SIM):

Enthalpy Analytical (Orange) in Orange, CA performed the analysis (NELAP certified). Please see the Enthalpy Analytical (Orange) case narrative.

Chain of Custody

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 309006 Client: TRC
 Date Received: 4/18/19 Project: _____

Section 2: Samples received in a cooler? Yes, how many? 2 No (skip Section 3 below)
 If no cooler Sample Temp (°C): _____ using IR Gun #. A, or B
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 4/18/19 By (print) RV (sign) RV
 Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A

Section 3: Important : Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used : Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # A B
 Cooler Temp (°C): #1: 3.8, #2: 2.1, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	/		
Were Method 5035 sampling containers present?		/	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm absent in VOA samples?			/
Was the client contacted concerning this sample delivery?			/
If YES, who was called? _____ By _____ Date: _____			/

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			/
Did you check preservatives for all bottles for each sample?			/
Did you document your preservative check? pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			/
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:
 Explanations/Comments: 1/1 VOAS arrived w/ bubbles for Sample "005"

Date Logged in 4/18/19 By (print) RV (sign) RV
 Date Labeled 4-18-19 By (print) RV (sign) RV

Laboratory Job Number 309066

Subcontracted Products

Enthalpy Analytical (Orange)



Enthalpy Analytical, LLC

931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com



Client: Enthalpy - Berkeley
Address: 2323 Fifth Street
Berkeley, CA 94710

Lab Request: 415113
Report Date: 05/13/2019
Date Received: 05/09/2019
Client ID: 15279

Attn: Haley Campbell

Comments: Project Number: 309066
Site: Riley Soil Investigation

5/9/19 Sample extracts were received at 11.0°C.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

<u>Sample #</u>	<u>Client Sample ID</u>
415113-001	BR11-1GW01
415113-002	BR11-1GW02
415113-003	BR11-1GW03
415113-004	DUP04182019-01

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Lisa Nguyen, PM

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date received.

The reports of the Enthalpy Analytical, Inc. are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.



Matrix: Water	Client: Enthalpy - Berkeley	Collector: Client
Sampled: 04/18/2019 10:50	Site:	
Sample #: 415113-001	Client Sample #: BR11-1GW01	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 8270CM	Prep Method: EPA 3510C		QCBatchID: QC1201821				
1-Methylnaphthalene	1.5	1	0.5	ug/L		05/12/19	MTS
2-Methylnaphthalene	ND	1	0.5	ug/L		05/12/19	MTS
Acenaphthene	ND	1	0.5	ug/L		05/12/19	MTS
Acenaphthylene	ND	1	0.5	ug/L		05/12/19	MTS
Anthracene	ND	1	0.5	ug/L		05/12/19	MTS
Benz(a)anthracene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(a)pyrene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(b)fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(g,h,i)perylene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(k)fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Chrysene	ND	1	0.5	ug/L		05/12/19	MTS L
Dibenz(a,h)anthracene	ND	1	0.5	ug/L		05/12/19	MTS L
Fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Fluorene	0.71	1	0.5	ug/L		05/12/19	MTS
Indeno(1,2,3-cd)pyrene	ND	1	0.5	ug/L		05/12/19	MTS
Naphthalene	ND	1	0.5	ug/L		05/12/19	MTS
Phenanthrene	ND	1	0.5	ug/L		05/12/19	MTS
Pyrene	ND	1	0.5	ug/L		05/12/19	MTS
<u>Surrogate</u>		<u>% Recovery</u>	<u>Limits</u>	<u>Notes</u>			
2-Fluorobiphenyl (SUR)		84	45-118				
Nitrobenzene-d5 (SUR)		87	41-119				
p-Terphenyl (SUR)		71	71-134				

Matrix: Water	Client: Enthalpy - Berkeley	Collector: Client
Sampled: 04/18/2019 12:00	Site:	
Sample #: 415113-002	Client Sample #: BR11-1GW02	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 8270CM	Prep Method: EPA 3510C		QCBatchID: QC1201821				
1-Methylnaphthalene	ND	1	0.5	ug/L		05/12/19	MTS
2-Methylnaphthalene	ND	1	0.5	ug/L		05/12/19	MTS
Acenaphthene	ND	1	0.5	ug/L		05/12/19	MTS
Acenaphthylene	ND	1	0.5	ug/L		05/12/19	MTS
Anthracene	ND	1	0.5	ug/L		05/12/19	MTS
Benz(a)anthracene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(a)pyrene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(b)fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(g,h,i)perylene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(k)fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Chrysene	ND	1	0.5	ug/L		05/12/19	MTS L
Dibenz(a,h)anthracene	ND	1	0.5	ug/L		05/12/19	MTS L
Fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Fluorene	ND	1	0.5	ug/L		05/12/19	MTS
Indeno(1,2,3-cd)pyrene	ND	1	0.5	ug/L		05/12/19	MTS
Naphthalene	ND	1	0.5	ug/L		05/12/19	MTS
Phenanthrene	ND	1	0.5	ug/L		05/12/19	MTS
Pyrene	ND	1	0.5	ug/L		05/12/19	MTS
<u>Surrogate</u>		<u>% Recovery</u>	<u>Limits</u>	<u>Notes</u>			
2-Fluorobiphenyl (SUR)		66	45-118				
Nitrobenzene-d5 (SUR)		78	41-119				
p-Terphenyl (SUR)		51	71-134	S			

Matrix: Water	Client: Enthalpy - Berkeley	Collector: Client
Sampled: 04/18/2019 09:40	Site:	
Sample #: <u>415113-003</u>	Client Sample #: BR11-1GW03	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 8270CM	Prep Method: EPA 3510C		QCBatchID: QC1201821				
1-Methylnaphthalene	ND	1	0.5	ug/L		05/12/19	MTS
2-Methylnaphthalene	ND	1	0.5	ug/L		05/12/19	MTS
Acenaphthene	ND	1	0.5	ug/L		05/12/19	MTS
Acenaphthylene	ND	1	0.5	ug/L		05/12/19	MTS
Anthracene	ND	1	0.5	ug/L		05/12/19	MTS
Benz(a)anthracene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(a)pyrene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(b)fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(g,h,i)perylene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(k)fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Chrysene	ND	1	0.5	ug/L		05/12/19	MTS L
Dibenz(a,h)anthracene	ND	1	0.5	ug/L		05/12/19	MTS L
Fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Fluorene	ND	1	0.5	ug/L		05/12/19	MTS
Indeno(1,2,3-cd)pyrene	ND	1	0.5	ug/L		05/12/19	MTS
Naphthalene	ND	1	0.5	ug/L		05/12/19	MTS
Phenanthrene	ND	1	0.5	ug/L		05/12/19	MTS
Pyrene	ND	1	0.5	ug/L		05/12/19	MTS
<u>Surrogate</u>		<u>% Recovery</u>	<u>Limits</u>				<u>Notes</u>
2-Fluorobiphenyl (SUR)		81	45-118				
Nitrobenzene-d5 (SUR)		95	41-119				
p-Terphenyl (SUR)		69	71-134	S			

Matrix: Water	Client: Enthalpy - Berkeley	Collector: Client
Sampled: 04/18/2019 12:10	Site:	
Sample #: <u>415113-004</u>	Client Sample #: DUP04182019-01	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 8270CM	Prep Method: EPA 3510C		QCBatchID: QC1201821				
1-Methylnaphthalene	ND	1	0.5	ug/L		05/12/19	MTS
2-Methylnaphthalene	ND	1	0.5	ug/L		05/12/19	MTS
Acenaphthene	ND	1	0.5	ug/L		05/12/19	MTS
Acenaphthylene	ND	1	0.5	ug/L		05/12/19	MTS
Anthracene	ND	1	0.5	ug/L		05/12/19	MTS
Benz(a)anthracene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(a)pyrene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(b)fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(g,h,i)perylene	ND	1	0.5	ug/L		05/12/19	MTS
Benzo(k)fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Chrysene	ND	1	0.5	ug/L		05/12/19	MTS L
Dibenz(a,h)anthracene	ND	1	0.5	ug/L		05/12/19	MTS L
Fluoranthene	ND	1	0.5	ug/L		05/12/19	MTS
Fluorene	ND	1	0.5	ug/L		05/12/19	MTS
Indeno(1,2,3-cd)pyrene	ND	1	0.5	ug/L		05/12/19	MTS
Naphthalene	ND	1	0.5	ug/L		05/12/19	MTS
Phenanthrene	ND	1	0.5	ug/L		05/12/19	MTS
Pyrene	ND	1	0.5	ug/L		05/12/19	MTS
<u>Surrogate</u>		<u>% Recovery</u>	<u>Limits</u>				<u>Notes</u>
2-Fluorobiphenyl (SUR)		85	45-118				
Nitrobenzene-d5 (SUR)		100	41-119				
p-Terphenyl (SUR)		73	71-134				

QCBatchID: QC1201821	Analyst: MSolanki	Method: EPA 8270CM
Matrix: Water	Analyzed: 05/09/2019	Instrument: SVOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	RDL	Notes
QC1201821MB1				
1-Methylnaphthalene	ND	ug/L	0.5	
2-Methylnaphthalene	ND	ug/L	0.5	
Acenaphthene	ND	ug/L	0.5	
Acenaphthylene	ND	ug/L	0.5	
Anthracene	ND	ug/L	0.5	
Benz(a)anthracene	ND	ug/L	0.5	
Benzo(a)pyrene	ND	ug/L	0.5	
Benzo(b)fluoranthene	ND	ug/L	0.5	
Benzo(g,h,i)perylene	ND	ug/L	0.5	
Benzo(k)fluoranthene	ND	ug/L	0.5	
Chrysene	ND	ug/L	0.5	
Dibenz(a,h)anthracene	ND	ug/L	0.5	
Fluoranthene	ND	ug/L	0.5	
Fluorene	ND	ug/L	0.5	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.5	
Naphthalene	ND	ug/L	0.5	
Phenanthrene	ND	ug/L	0.5	
Pyrene	ND	ug/L	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1201821LCS1, QC1201821LCSD1											
1-Methylnaphthalene	1	1	0.8068	0.6985	ug/L	81	70	14	70-130	35	L
2-Methylnaphthalene	1	1	0.87	0.76	ug/L	87	76	13	40-130	35	
Acenaphthene	1	1	0.78	0.67	ug/L	78	67	15	46-130	35	
Acenaphthylene	1	1	0.81	0.69	ug/L	81	69	16	43-130	35	
Anthracene	1	1	0.81	0.69	ug/L	81	69	16	50-130	35	
Benz(a)anthracene	1	1	0.81	0.70	ug/L	81	70	15	61-130	35	
Benzo(a)pyrene	1	1	0.81	0.68	ug/L	81	68	17	46-139	35	
Benzo(b)fluoranthene	1	1	0.87	0.78	ug/L	87	78	11	42-158	35	
Benzo(g,h,i)perylene	1	1	0.65	0.58	ug/L	65	58	11	50-143	35	
Benzo(k)fluoranthene	1	1	0.82	0.77	ug/L	82	77	6	58-134	35	
Chrysene	1	1	0.40	0.36	ug/L	40	36	11	61-130	35	L
Dibenz(a,h)anthracene	1	1	0.33	0.36	ug/L	33	36	9	60-130	35	L
Fluoranthene	1	1	0.84	0.72	ug/L	84	72	15	62-130	35	
Fluorene	1	1	0.80	0.68	ug/L	80	68	16	49-130	35	
Indeno(1,2,3-cd)pyrene	1	1	0.66	0.66	ug/L	66	66	0	52-144	35	
Naphthalene	1	1	0.78	0.68	ug/L	78	68	14	41-130	35	
Phenanthrene	1	1	0.73	0.64	ug/L	73	64	13	57-130	35	
Pyrene	1	1	0.79	0.69	ug/L	79	69	14	62-130	35	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

Enthalpy Berkeley

RUSH

2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

415113

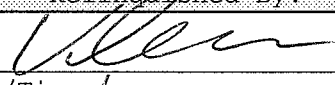

Project Number: 309066
Site: Riley Soil Investigation

Subcontract Laboratory:
Enthalpy Analytical (Orange)
931 W Barkley Avenue
Orange, CA 92868
(714) 771-9923
ATTN: Lisa Nguyen

Results due: 2 DAY TAT Report Level: IV

Please send report to: Haley Campbell (haley.campbell@enthalpy.com)
*** Please report using Sample ID rather than Enthalpy (Berkeley) Lab #.

Sample ID	Sampled	Matrix	Analysis	Lab #	Comments
BR11-1GW01	04/18 10:50	Water	8270-SIM-SUB	309066-001	
BR11-1GW02	04/18 12:00	Water	8270-SIM-SUB	309066-002	
BR11-1GW03	04/18 09:40	Water	8270-SIM-SUB	309066-003	
DUP04182019-01	04/18 12:10	Water	8270-SIM-SUB	309066-004	

Notes:	Relinquished By:	Received By:
		
	Date/Time: 5/8/19 1230	Date/Time: 05/09/19 1127
	Date/Time:	Date/Time:

Signature on this form constitutes a firm Purchase Order for the services requested above.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: EA - Berkeley Project: 309 066
 Date Received: 5/9/19 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler): _____
 Sample Temp (°C), One from each cooler: #1: 11.0 #2: _____ #3: _____ #4: _____
 (Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: -0.2 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments
Extract vials. Out of temp range.

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time: _____
 Email (email sent to/on): LN / 5/9/19
 Project Manager's response: _____

Completed By: [Signature] Date: 05/09/19

Enthalpy Analytical - Berkeley

Sample Preparation Summary

08-MAY-2019 12:01

Batch Number : 269782
 Date Extracted: 22-APR-2019 12:01
 Extracted by : Jambaldorj Olonbayar
 Prep Method : 3520C

Analysis : 14DIOXANE
 Bgroup : N/A
 Units : mL
 Clean-up :

Spike #1 ID : S40487A
 Spike #2 ID : S40073A
 Spike #3 ID :
 SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses Method	Clean Comments
218623-097		MDL Studies	Water	1000 mL	1	0.001000	1		0.04			8270-SIM	Prepped 23-APR-2019 12:00; A/O AE
306178-009		MDL Studies	Water	1000 mL	1	0.001000	1		0.04			8270-SIM	Prepped 23-APR-2019 12:00; A/O AE
306178-010		MDL Studies	Water	1000 mL	1	0.001000	1		0.1			8270-SIM	Prepped 23-APR-2019 12:00; A/O AE
309065-001		EQ-Geody	Water	1000 mL	1	0.001000	1		0.2			14DIOXANE, 8-(mese)	Prepped 23-APR-2019 12:00; A/O AE
309065-001		TRC Solutions Inc.	Water	1020 mL	1	0.000980	1	11	1			8270-SIM	Prepped 23-APR-2019 12:00; A/O AE
309066-001		TRC Solutions Inc.	Water	1020 mL	1	0.000980	1	7	1			14DIOXANE	Prepped 23-APR-2019 12:00; A/O AE
309066-002		TRC Solutions Inc.	Water	1000 mL	1	0.001000	1	7	1			14DIOXANE	Prepped 23-APR-2019 12:00; A/O AE
309066-003		TRC Solutions Inc.	Water	1000 mL	1	0.001000	1	7	1			14DIOXANE	Prepped 23-APR-2019 12:00; A/O AE
309066-004		TRC Solutions Inc.	Water	1020 mL	1	0.000980	1	7	1			14DIOXANE	Prepped 23-APR-2019 12:00; A/O AE
309066-001		Jacobs	Water	1000 mL	1	0.001000	1	7	1			8270-SIM	Prepped 23-APR-2019 12:00; A/O AE
309066-001		Jacobs	Water	1000 mL	1	0.001000	1	7	1			8270-SIM	Prepped 23-APR-2019 12:00; A/O AE
309110-009		Myounghee Noh & Asso	Water	920 mL	1	0.001087	1	7	1			14DIOXANE	Prepped 23-APR-2019 12:00; A/O AE
309110-030		Myounghee Noh & Asso	Water	920 mL	1	0.001087	1	7	1			14DIOXANE	Prepped 23-APR-2019 12:00; A/O AE
QC972940	BLANK		Water	1000 mL	1	0.001000	1					8270-SIM	
QC972941	BS		Water	1000 mL	1	0.001000	1					8270-SIM	
QC972942	BSD		Water	1000 mL	1	0.001000	1					8270-SIM	

VS-51819

Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

Working Standard S40073

ID	S40073 D Upload	Made	07-MAR-2019
Name	SIMDIOXSPIKE	Expires	03-SEP-2019
Analyst	D2M	Notebook	BK4179
Lot #		Pages	80
Received		Flags	

Sources

Name	Source Type	DF	ID
2-MENAP_R	Physical and component info	1000	S38419
CLP-HC-BN-R	Physical and component info	2000	S39104
DIOXANEACC	Physical and component info	333.333333333333333333333333333333	S34651
MENAP	Physical and component info	1000	S39833

Standard Definition -- SIMDIOXSPIKE

Name	SIMDIOXSPIKE	Solvent	Methanol
Department	Organic Extraction	Supplier	
Description	SIM +1 and 2 menap@ 1ug/mL, 1,4 Dioxane 3ug/mL	Catalog #	
Type	Working	Use instead	
Shelf Life (days)	180	Flags	

Components

Analyte	Conc	Units
1,2,4-Trichlorobenzene	1	ug/mL
1,2-Dichlorobenzene	1	ug/mL
1,3-Dichlorobenzene	1	ug/mL
1,4-Dichlorobenzene	1	ug/mL
1,4-Dioxane	3	ug/mL
1-Methylnaphthalene	1	ug/mL
1-Methylnaphthalene (F)	1	ug/ml
1-Methylnaphthalene (UV)	1	ug/ml
2,4-Dinitrotoluene	1	ug/mL
2,6-Dinitrotoluene	1	ug/mL
2-Chloronaphthalene	1	ug/mL
2-Methylnaphthalene	1	ug/mL
4-Bromophenyl-phenylether	1	ug/mL
4-Chlorophenyl-phenylether	1	ug/mL
Acenaphthene	1	ug/mL
Acenaphthylene	1	ug/mL
Anthracene	1	ug/mL
Azobenzene	1	ug/mL
Benzo(a)anthracene	1	ug/mL
Benzo(a)pyrene	1	ug/mL
Benzo(b)fluoranthene	1	ug/mL

Working Standard S40487

ID	S40487 D Upload	Made	19-APR-2019
Name	8270SIMSUR	Expires	16-OCT-2019
Analyst	ARG	Notebook	BK4179
Lot #		Pages	86
Received		Flags	

Sources

Name	Source Type	ID
B/N SURR	Physical; don't use component info	S40485

Standard Definition -- 8270SIMSUR

Name	8270SIMSUR	Solvent	Methanol
Department	Organic Extraction	Supplier	
Description	BNSURR @1ug/mL	Catalog #	
Type	Working	Use instead	
Shelf Life (days)	180	Flags	Old System

Components

Analyte	Conc	Units
2-Fluorobiphenyl	1	ug/ml
Nitrobenzene-d5	1	ug/ml
Terphenyl-d14	1	ug/ml



800-322-5555
www.gso.com

Ship From

ENTHALPY ANALYTICAL, LLC
PROJECT MANAGEMENT
2323 FIFTH STREET
BERKELEY, CA 94710

Tracking #: 544735929

PDS



Ship To

ENTHALPY ANALYTICAL (ORANGE)
LISA NGUYEN
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

Weight: 0 lb(s)

Reference:

S92868A

Delivery Instructions:

Signature Type: STANDARD



2432732

ORC CA927-C 0

Print Date: 5/8/2019 12:38 PM

PRINT LABEL

Print All

FINISH

1 of 1

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

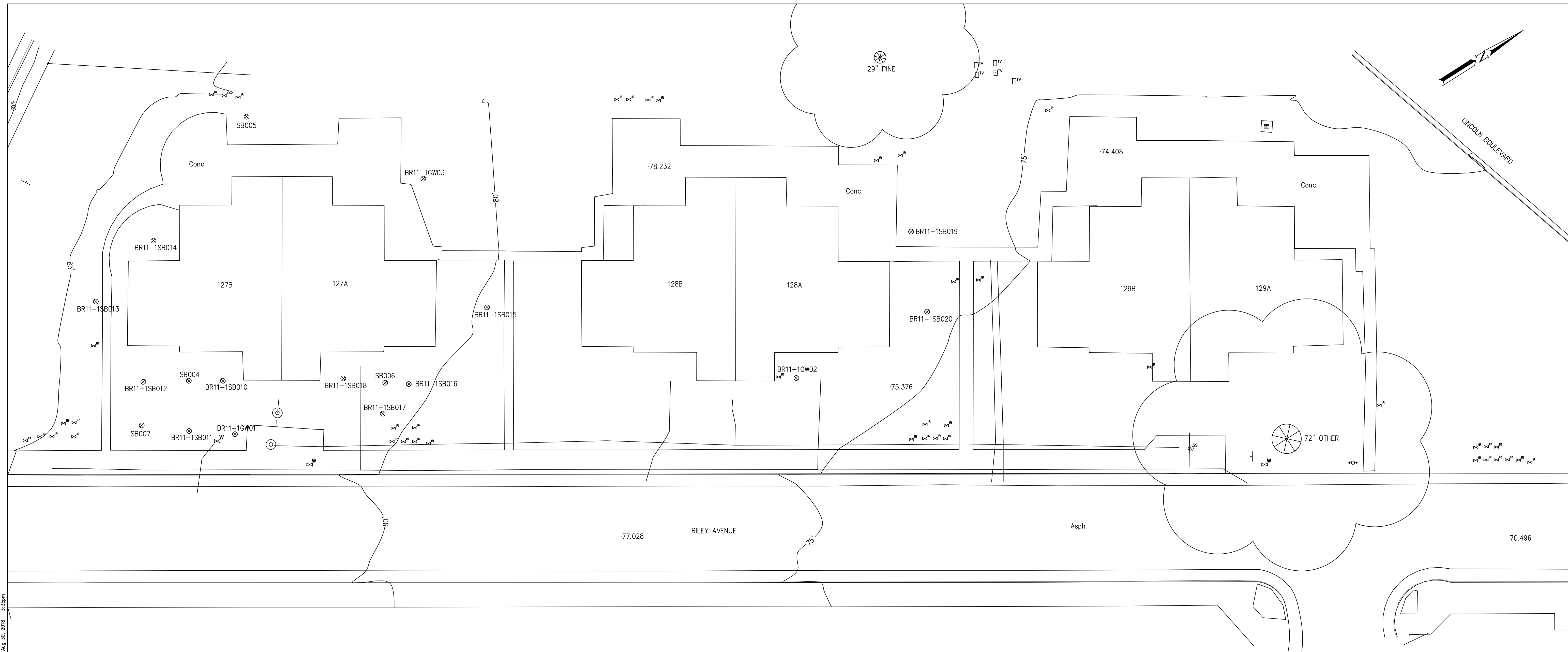
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the GSO service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gso.com.

ATTACHMENT E
Soil Boring and Monitoring Well Survey Plan

N:\PROJECTS\Projects\Pseudo\28530 - Riley Avenue BR11-1A INVESTIGATION Soil and CW Investigation\15036_105_TPO_revised-180720-BM.dwg, Aug 30, 2018 - 3:35pm



TOWILL | Surveying, Mapping
and GIS Services
2300 Clayton Road, Suite 1200
Concord, CA 94520-2176
(925) 682-6976 - www.towill.com

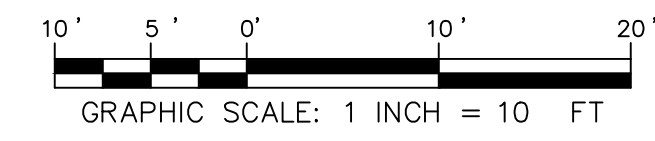
TOPOGRAPHIC SURVEY
BR11-1 MONITORING WELL
RILEY AVENUE
SAN FRANCISCO, CALIFORNIA

PREPARED FOR:
TRC, Inc.

MONITORING WELL / SOIL BORING

Well No	Type	Date of Survey	Towill Pt.	Description	Northing	Easting	Rim Elev.	PVC. Elev.	Type	photo id	photo id	photo id	latitude	longitude	Comments
BR11-1GW01		7/6/2018	5382	Mon well	5995225.395	2119973.762	82.067	81.78	PVC	20180706_131548.jpg	20180706_131552.jpg	20180706_131604.jpg	37.800769	-122.460683	Located in conc
BR11-1GW02		7/6/2018	5374	Mon well	5995277.360	2120077.010	76.311	76.03	PVC	BR11-1GW02.jpg	BR11-1GW02-A.jpg	BR11-1GW02-B.jpg	37.801055	-122.46051	Located in conc
BR11-1GW03		7/6/2018	5517	Mon well	5995201.905	2120034.060	82.090	81.71	PVC	20180706_144315.jpg	20180706_144330.jpg	20180706_144340.jpg	37.800933	-122.460768	Located in conc
BR11-1SB010		7/6/2018	5387	Soil Boring	5995214.832	2119977.197	82.489			20180706_132343.jpg	20180706_132344.jpg		37.800777	-122.460719	Located in grass
BR11-1SB011		7/6/2018	5383	Soil Boring	5995219.814	2119965.851	82.512			20180706_131719.jpg			37.800747	-122.460701	Located in grass
BR11-1SB012		7/6/2018	5386	Soil Boring	5995206.278	2119963.322	83.293			20180706_132126.jpg	20180706_132129.jpg		37.800739	-122.460748	Located in grass
BR11-1SB013		7/6/2018	5563	Soil Boring	5995187.185	2119963.934	83.750			20180706_152034.jpg			37.800739	-122.460814	Located in grass
BR11-1SB014		7/6/2018	5562	Soil Boring	5995182.979	2119980.584	82.959			20180706_152014.jpg	20180706_152016.jpg		37.800785	-122.46083	Located in grass
BR11-1SB015		7/6/2018	5534	Soil Boring	5995231.162	2120030.951	79.672			20180706_150041.jpg	20180706_150045.jpg	20180706_150054.jpg	37.800926	-122.460667	Located in grass
BR11-1SB016		7/6/2018	5377	Soil Boring	5995235.827	2120009.007	80.327			20180706_130926.jpg	20180706_130929.jpg		37.800866	-122.460649	Located in grass
BR11-1SB017		7/6/2018	5376	Soil Boring	5995238.081	2120001.223	80.509			20180706_130856.jpg	20180706_131209.jpg		37.800845	-122.460641	Located in grass
BR11-1SB018		7/6/2018	5379	Soil Boring	5995227.652	2119998.282	81.042			20180706_131058.jpg	20180706_131201.jpg		37.800836	-122.460677	Located in grass
BR11-1SB019		7/6/2018	5475	Soil Boring	5995264.657	2120112.584	76.965			20180706_142413.jpg	20180706_142415.jpg		37.801152	-122.460557	Located in grass
BR11-1SB020		7/6/2018	5371	Soil Boring	5995280.268	2120106.566	75.576						37.801136	-122.460502	Located in grass
SB004		7/6/2018	5385	Soil Boring	5995211.100	2119971.313	82.577			20180706_132004.jpg			37.800761	-122.460732	Located in grass
SB005		7/6/2018	5514	Soil Boring	5995171.772	2120010.313	82.686			20180706_144353.jpg			37.800866	-122.460871	Located in grass
SB006		7/6/2018	5378	Soil Boring	5995233.014	2120005.066	80.169			20180706_131131.jpg			37.800855	-122.460659	Located in grass
SB007		7/6/2018	5384	Soil Boring	5995213.628	2119958.284	83.008			20180706_131833.jpg			37.800725	-122.460722	Located in grass

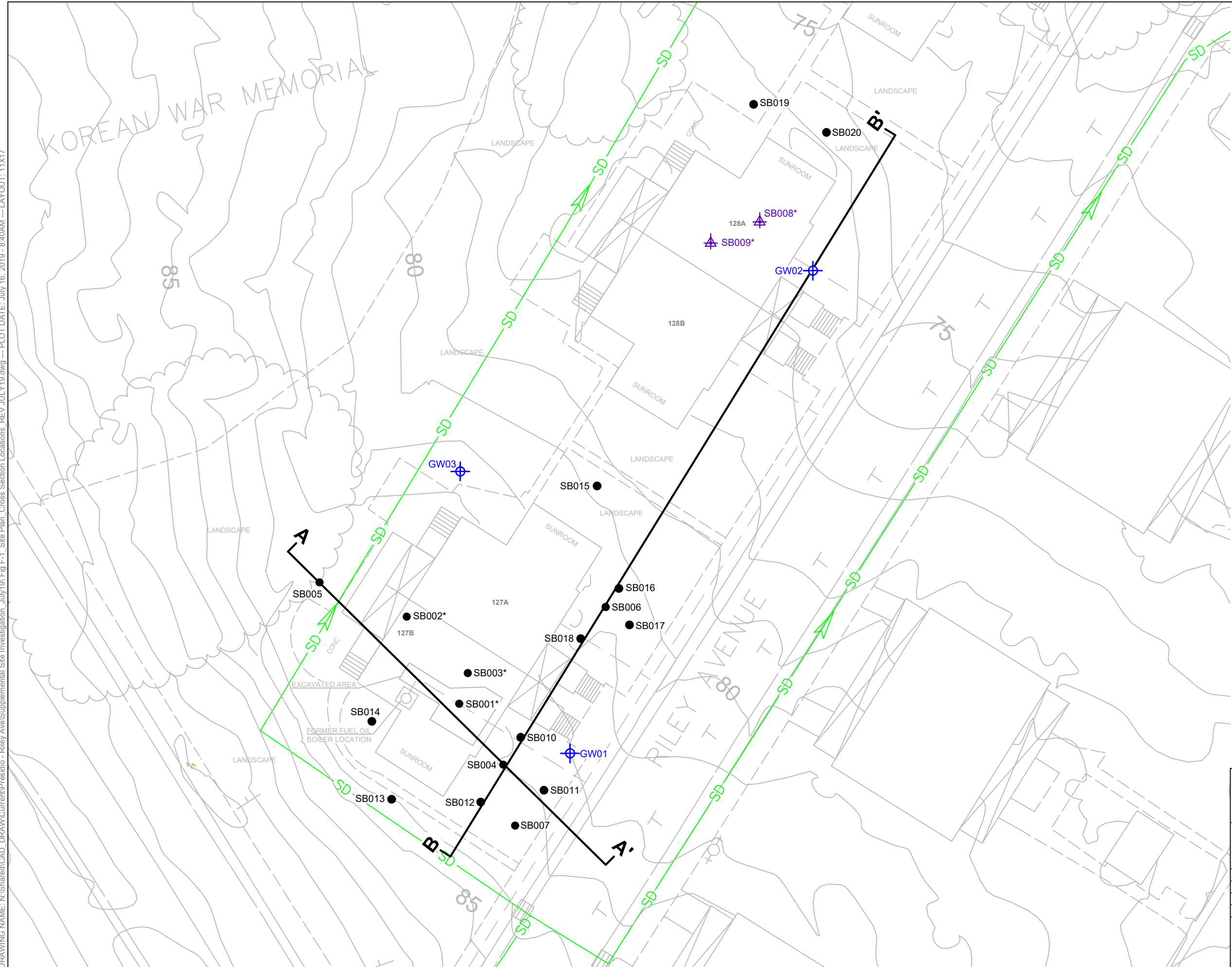
SURVEYED BY TOWILL ON JULY 6TH, 2018.
CONTOUR INTERVAL IS FIVE FOOT.
ELEVATIONS ARE BASED ON NAVD88.
COORDINATES ARE BASED ON NAD 83,
ON CCS83 (2007.00), ZONE 3.



1" = 10'	SCALE	07/06/2018	DATE
	DATE SURVEYED	J. MAY	P.M.
	CALCULATED	IT/g	
	DRAWN	A. HARRIS	
	CHECKED	IT/g	
ISSUE DATE	07/19/2018	JOB NUMBER	15036-0105
SHEET	1	OF	1

ATTACHMENT F
Cross Section Figures

DRAWING NAME: N:\Shared\CAD_DRAWING\Current\Presidio - Riley Ave\Supplemental Site Investigation_July19\Fig F-1_Site Plan_Cross Section Locations_REV JULY19.dwg --- PLOT DATE: July 16, 2019 - 8:40AM --- LAYOUT: 11X17



LEGEND

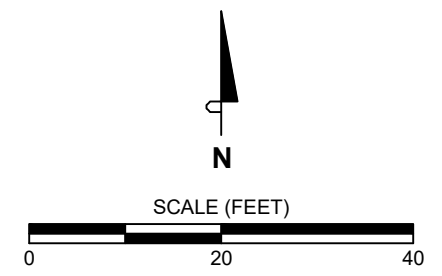
- Groundwater monitoring well
- Soil vapor well
- Soil boring
- Cross section location

NOTES:

See Figures F-2 and F-3 for cross sections.

All well and boring locations (except as noted) have been surveyed by Towill in July 2018. Coordinate system: California State Plane Zone III, NAD83, NAVD88.

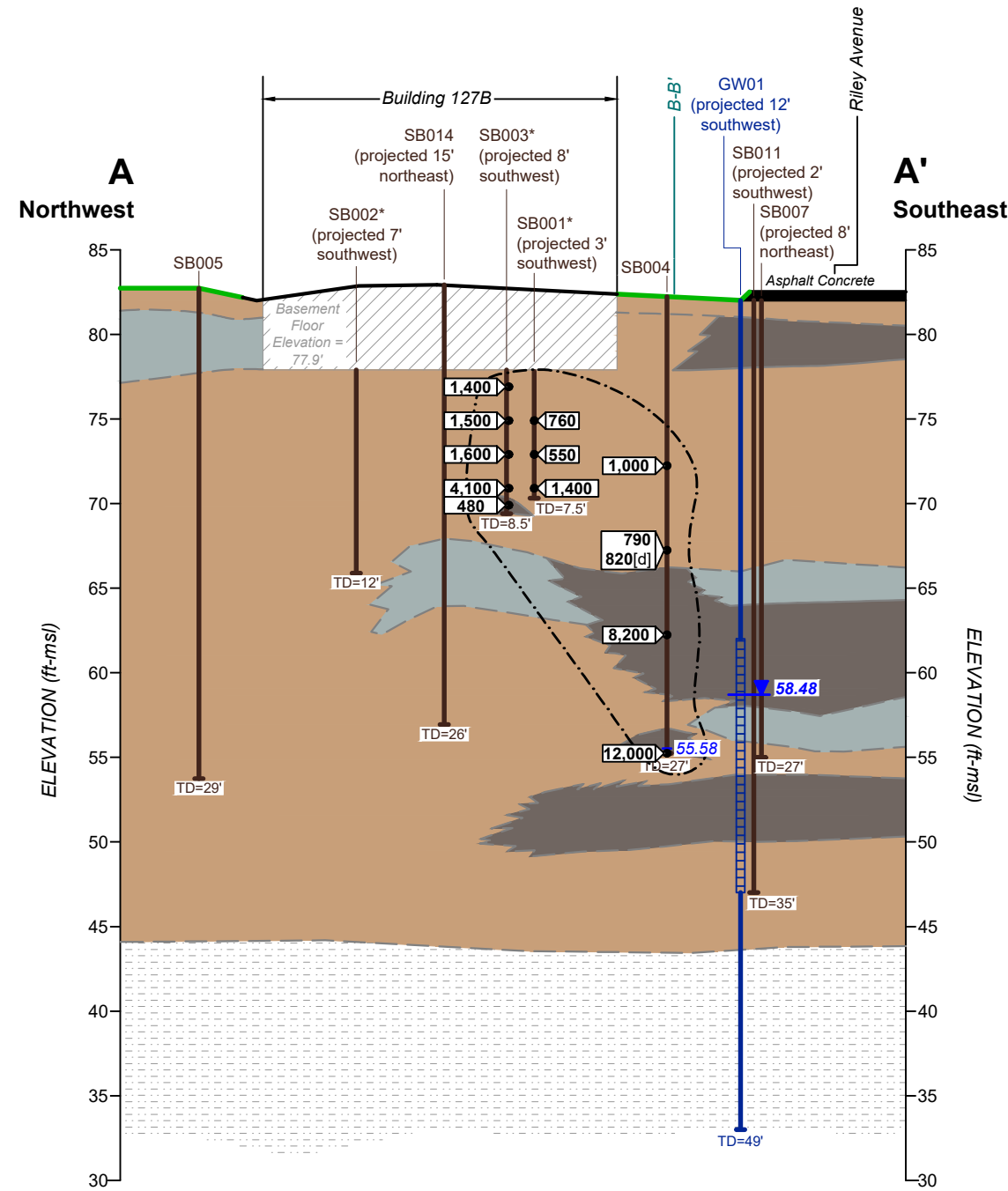
* = Approximate. No survey is available to verify location or elevation.



PROJECT:		THE PRESIDIO TRUST BR11-1 FUEL DISTRIBUTION SYSTEM RILEY AVENUE, SAN FRANCISCO, CALIFORNIA	
TITLE:		CROSS SECTION LOCATIONS	
DRAWN BY:	KQ	PROJECT NO.:	285830.03A.03
CHECKED BY:	ES	FIGURE F-1	
APPROVED BY:	ES		
DATE:	FEBRUARY 2019		

505 Sansome Street
Suite 1600
San Francisco, CA 94111
Phone: 415.434.2600

DRAWING NAME: N:\Shared\CAD_DRAWING\Current\Presidio - Riley Ave\Supplemental Site Investigation_July19\Fig F-2 and F-3_Cross Sections_REV_JULY19.dwg --- PLOT DATE: July 10, 2019 - 10:41AM --- LAYOUT: 11X17_A-A'



LEGEND

- Ground surfaces:**
- Concrete
 - Landscaping
- Soil boring***
- TPH-d concentration in soil (mg/kg) exceeding screening level [d] = duplicate sample
 - Approximate groundwater elevation, June 2018**
 - Total depth
- Groundwater monitoring well**
- Screen
 - Groundwater elevation, July 6, 2018
 - Total depth
- Approximate extent of TPH-D soil impacts above California Regional Water Quality Control Board Screening level of 260 mg/kg

LITHOLOGY KEY

- Low permeability (CL, ML, OL, OH)**
 - CL Inorganic clays of low to medium plasticity, gravelly-sandy-silty-lean clay
 - ML Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
 - OL Organic silts and organic silty clays of low plasticity
 - CH Inorganic clays of high plasticity, fat clays
- Low to moderate permeability (SM, SC, GC)**
 - SM Silty sands
 - SC Clayey sands, sand-clay mixtures
 - GC Clayey gravels, gravel-sand-clay mixtures
- Moderate to high permeability (SP, SW)**
 - SP Poorly-graded sands, gravelly sands, little or no fines
 - SW Well-graded sands, gravelly sands, little or no fines
- Weathered, fractured bedrock**

NOTES:

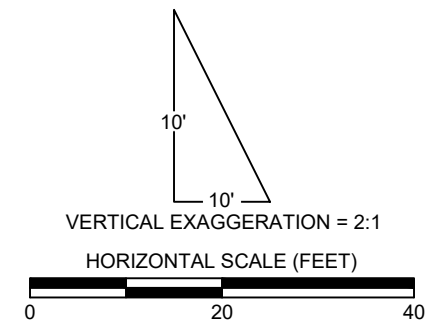
See Figure 1 for locations of cross section.

All well and boring locations (except as noted) have been surveyed by Towill in July 2018. Coordinate system: California State Plane Zone III, NAD83, NAVD88.

ft-msl = feet above mean sea level

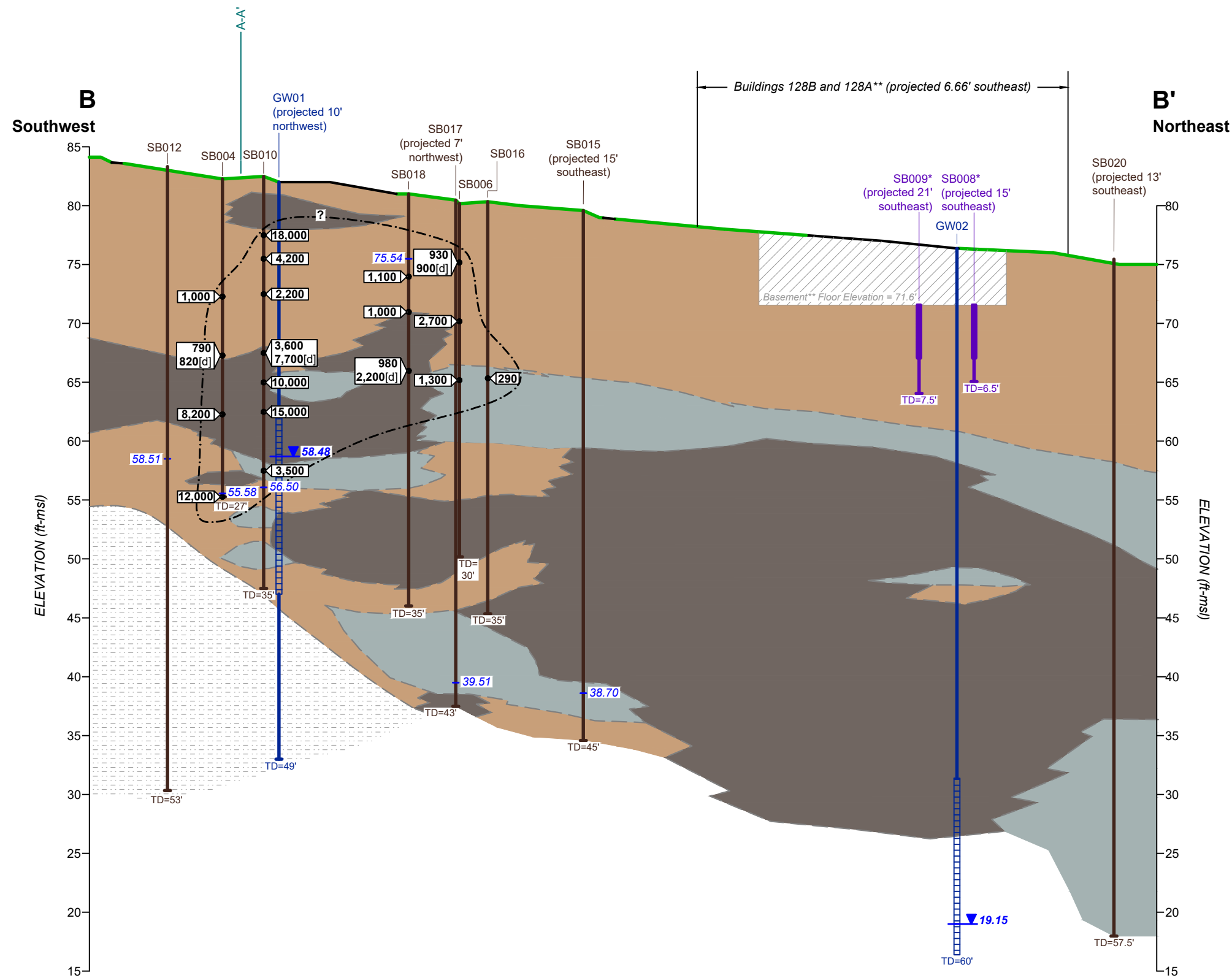
* Approximate location. Borings were installed in the building basements with a floor elevation approximately 6 feet below the surrounding surface elevation.

** Borehole water level was measured after 2 to 4 hours stabilization and may not be representative of the groundwater elevation.



PROJECT:		THE PRESIDIO TRUST	
		BR11-1 FUEL DISTRIBUTION SYSTEM	
		RILEY AVENUE, SAN FRANCISCO, CALIFORNIA	
TITLE:			
CROSS SECTION A-A'			
DRAWN BY:	K. QUINNELL	PROJECT NO.:	285830.02A.02
CHECKED BY:	L. SHANNON	FIGURE F-2	
APPROVED BY:	L. SHANNON		
DATE:	JULY 2019		
		505 Sansome Street Suite 1600 San Francisco, CA 94111 Phone: 415.434.2600	

DRAWING NAME: N:\Shared\CAD_DRAWING\Current\Presidio - Riley Ave\Supplemental Site Investigation_July19\Fig F-2 and F-3_Cross Sections_REV_JULY19.dwg --- PLOT DATE: July 10, 2019 - 10:42AM --- LAYOUT: 11X17_B-B'



LEGEND

- Ground surfaces:**
- Concrete
 - Landscaping
- Soil boring***
- TPH-d concentration in soil (mg/kg) exceeding screening level [d] = duplicate sample
 - Approximate groundwater elevation, June 2018***
 - Total depth
- Soil vapor well***
- Teflon tubing
 - Total depth
- Groundwater monitoring well**
- Screen
 - Groundwater elevation, July 6, 2018
 - Total depth
- Approximate extent of TPH-D soil impacts above California Regional Water Quality Control Board Screening level of 260 mg/kg

LITHOLOGY KEY

- Low permeability (CL, ML, OL, OH)**
 - CL Inorganic clays of low to medium plasticity, gravelly-sandy-silty-lean clay
 - ML Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
 - OL Organic silts and organic silty clays of low plasticity
 - CH Inorganic clays of high plasticity, fat clays
- Low to moderate permeability (SM, SC, GC)**
 - SM Silty sands
 - SC Clayey sands, sand-clay mixtures
 - GC Clayey gravels, gravel-sand-clay mixtures
- Moderate to high permeability (SP, SW)**
 - SP Poorly-graded sands, gravelly sands, little or no fines
 - SW Well-graded sands, gravelly sands, little or no fines
- Weathered, fractured bedrock**

NOTES:

See Figure 1 for locations of cross section.

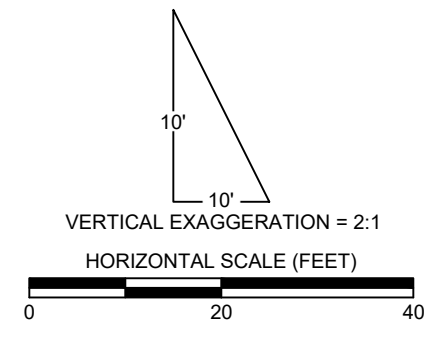
All well and boring locations (except as noted) have been surveyed by Towill in July 2018. Coordinate system: California State Plane Zone III, NAD83, NAVD88.

ft-msl = feet above mean sea level

* Approximate location. Borings were installed in the building basements with a floor elevation approximately 6 feet below the surrounding surface elevation.

** The basements under buildings 128A and B do not extend under their sunrooms.

*** Borehole water level was measured after 2 to 4 hours stabilization and may not be representative of the groundwater elevation.



PROJECT: THE PRESIDIO TRUST	
BR11-1 FUEL DISTRIBUTION SYSTEM	
RILEY AVENUE, SAN FRANCISCO, CALIFORNIA	
TITLE: CROSS SECTION B-B'	
DRAWN BY: K. QUINNELL	PROJECT NO.: 285830.02A.02
CHECKED BY: L. SHANNON	FIGURE F-3
APPROVED BY: L. SHANNON	
DATE: JULY 2019	
505 Sansome Street Suite 1600 San Francisco, CA 94111 Phone: 415.434.2600	

ATTACHMENT G
RWQCB Comments and Response to Comments

San Francisco Bay Regional Water Quality Control Board

January 3, 2019
Geotracker ID: T10000001505 (JDW)

Presidio Trust
Attn. Ms. Nina Larssen
Remediation Project Manager
67 Martinez Street, P.O. Box 29052
San Francisco, CA 94129
Via email: nlarssen@presidiotrust.gov

Subject: Regional Water Board Review of *Supplemental Site Investigation Report, Fuel Distribution System Section BR11-1, Riley Avenue, dated Nov. 7, 2018*
Presidio of San Francisco

Dear Ms. Larssen:

I reviewed the subject report, which presents the results of the supplemental soil and groundwater investigation at the Riley Avenue Fuel Distribution System (FDS) BR11-1 Site (Site). Based on the review, I have the following comments.

1. **Section 1.1, Site Description** – Please indicate on Figure 2 the known or approximate location of boiler fuel tank BR11-1.
2. **Section 1.3, Conceptual Site Model, third bullet** – The sentence states: “Groundwater data from installed groundwater monitoring wells indicate the direction of groundwater flow is to the northeast.” However, Figure A-6-3 (Groundwater Elevation Map), which can be found on GeoTracker with the closure document for FDS Group 1g/Section BR11-1, shows the flow direction as due north to the San Francisco Bay. Please evaluate Figure A-6-3 and other available groundwater elevation data. Based on the evaluation, please revise the groundwater flow direction as necessary. Please indicate the groundwater flow direction on Figure 4.

The groundwater elevation at monitoring well GW02 (128A front yard) is consistent with the groundwater elevation contours shown on Figure A-6-3. However, the groundwater elevations at boring SB004 (127B front yard) and monitoring wells GW01 (127B front yard) and GW03 (127A back yard) are approximately 30 to 40 feet above the anticipated elevations indicated on Figure A-6-3. Please evaluate and describe whether the groundwater at SB004, GW01, and GW03 is perched above a lower, laterally-continuous groundwater-bearing zone through which are screened well GW02 and the wells used to develop Figure A-6-3.

3. **Section 1.3, Conceptual Site Model, new bullet** – Please add a bullet that summarizes the transport and fate of secondary source groundwater¹ in the front yards of 127A/B. See also the comments on Section 5.2.

¹“Secondary source” is petroleum-impacted soil or groundwater located at or immediately beneath the point of release from the primary source.

4. **Section 2.0, Chemicals of Concern** – Please revise this section to include all chemicals of concern (COCs).
- **Groundwater:** Please indicate that TPH-g, TPH-d, and TPH-mo are actual COCs, based on their concentrations in groundwater at SB004 and the observations of heavy petroleum contamination in the groundwater-bearing zone at boring SB010.
 - **Sub-Slab/Soil Vapor:** TPH-g, TPH-d, and benzene are identified as COCs in soil gas beneath 127A and *potentially* beneath 127B. We believe it is an understatement to indicate that TPH-g, TPH-d, and benzene are “potentially beneath 127B.” Maximum concentrations of gasoline-range total petroleum hydrocarbons (TPH-g), diesel-range TPH (TPH-d), and benzene in sub-slab/soil gas beneath adjacent 127A were 190,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), 39,000 $\mu\text{g}/\text{m}^3$, and 21 $\mu\text{g}/\text{m}^3$, respectively. Because the extent and magnitude of soil contamination beneath and in the front yard of adjacent 127B are greater than at 127A, it follows that it is quite likely that TPH-g, TPH-d, and benzene are COCs in the sub-slab/soil gas beneath 127B. Please revise the bullet to reflect likely soil vapor conditions beneath 127B.
- Additionally, please add methane as a COC in sub-slab/soil gas because it has been detected beneath the slab of 127A at a concentration of up to 2.01% by volume, or 40% of the lower explosive limit (LEL) of 5% by volume. Typically, response actions are triggered if methane is present at 10 to 20% of the LEL.
5. **Section 5.1, Soil Impact Delineation, first bullet (Unit 127A)** – The report should be revised to add:
- Cross-section(s) to illustrate the distribution of TPH-d contamination beneath and in the front yard of 127A.
6. **Section 5.1, Soil Impact Delineation, second bullet (Unit 127B)** – The report should be revised to address the following:
- The lateral extent of TPH-d in soil above the Tier 1 ESL includes borings 127BEX102 (west) and 127BEX115 (north). The dashed approximate extent of TPH-d soil contamination shown on Figure 3A should be redrawn to include these borings.
 - Cross-section(s) should be developed to illustrate the distribution of TPH-d contamination beneath and in the front yard of 127B. The cross-section(s) should assist the feasibility evaluation of contaminated soil cleanup.
 - Given the high TPH-d concentrations in soil of the front yard of 127B, up to 18,000 mg/kg at boring SB010 (5 feet below ground surface [bgs]), please provide a technical justification for concluding that “soil contamination [in the front yard] does not appear to be mobile ...”
7. **Section 5.2, Groundwater Delineation** – TPH-g, TPH-d, and motor oil-range TPH (TPH-mo) concentrations in groundwater at SB004 in 127B’s front yard were 1,900 $\mu\text{g}/\text{L}$, 170,000 $\mu\text{g}/\text{L}$, and 13,000 $\mu\text{g}/\text{L}$, respectively. Although groundwater samples were not collected from nearby boring SB010, review of its boring log indicates heavy petroleum contamination from 18 to 31 feet bgs in saturated sand. The boring log describes “brownish liquid bubbles,” “light brownish liquid,” and “product suspected.”

Down-gradient of SB004/SB010, TPH-contaminated groundwater appears to be bounded by borings SB015 (127A side yard) and SB017 (127A front yard) and monitoring well GW03 (127A

backyard). However, SB015 and SB017 were not extended to bedrock. Because the borings were not extended to bedrock, TPH-contaminated groundwater may travel within the upper, weathered bedrock beneath the total depth of SB017 and SB015.

Please provide an acceptable technical justification for concluding that “groundwater beneath the Site has not been significantly affected ... beyond the localized impacts [in the front yard] of Building 127B [i.e. beyond SB004 and SB010].” The justification should address the possibility that perched, secondary source groundwater at SB004/SB010 may travel to the edge of an underlying low-permeability layer, migrate down through the vadose zone to the sand-bedrock interface, and thence down-gradient along the north-sloping interface.

The extent(s) of groundwater contamination should be indicated on Figure 4. If the down-gradient extent of TPH-contaminated groundwater cannot be acceptably delineated, then the report must propose additional investigation to do so.

Responses to our comments on this section should inform revision of the Section 1.3, Site Conceptual Model (additional bullet summarizing the transport and fate of secondary source groundwater).

8. **Section 6.0, Conclusions and Recommendations** – This section should be revised to be consistent with preceding revisions to the report. Also, the second paragraph should be revised to describe that the proposed remedial action to address contamination has not been determined. Rather, as a next step, a feasibility evaluation will be performed to analyze remedial action alternatives, using standard environmental industry practices.

If you have any questions, please contact me at 510.622.2375 or jeff.white@waterboards.ca.gov.

Sincerely,

Jeff White
Water Resource Control Engineer
Groundwater Protection Division



103 Montgomery Street
P.O. Box 29052
San Francisco, CA 94129-0052
T (415) 561-5300
www.presidio.gov

March 06, 2019

Mr. Jeff White
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Subject: DRAFT Response to Comments on Section BR11-1 Supplemental Site
Investigation Report
Fuel Distribution System, Section BR11-1
Riley Avenue
Presidio of San Francisco, San Francisco, California

Dear Mr. White:

Enclosed is the draft response to comments (Draft RTCs) addressing comments on your review of the *Section BR11-1 Supplemental Site Investigation Report* prepared by TRC Solutions, Inc., on behalf of the Presidio Trust (Trust). The RTCs address RWQCB's written comments dated January 3, 2019. The Trust request RWQCB review of the Draft RTCs and attachment prior to implementation in a revised report. Upon approval of the RTCs and document revisions, the Trust will finalize the revised report and submit to the RWQCB for formal approval.

Should you have questions or need additional information, please contact me at (415) 561-5421.

Sincerely,

Nina Larssen
Remediation Program Manager

cc: Alfonso Ang, TRC
Justin Hanzel-Durbin, TRC
Sally Schoemann, TRC

Attachment:

Draft Response to Comments, January 3, 2019 Regional Water Quality Control Board Review of Supplemental Site Investigation Report, Fuel Distribution System Section BR11-1, Riley Avenue, dated Nov. 7, 2018



505 Sansome Street
Suite 1600
San Francisco, CA 94111



415.434.2600 PHONE
415.434.2321 FAX

www.trcsolutions.com

March 06, 2019

Mr. Jeff White
Water Resource Control Engineer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

**Subject: Response to Comments
January 3, 2019 Regional Water Quality Control Board Review of Supplemental Site Investigation Report, Fuel Distribution System Section BR11-1, Riley Avenue, dated Nov. 7, 2018
Presidio of San Francisco**

Dear Mr. White:

On behalf of the Presidio Trust, TRC presents the following responses to your comments dated January 3, 2019 on the Supplemental Site Investigation Report, Fuel Distribution System Section BR11-1, Riley Avenue, dated Nov. 7, 2018. Each of your comments is presented below in italics, followed by our response. Figures and tables are attached.

1. *Section 1.1, Site Description – Please indicate on Figure 2 the known or approximate location of boiler fuel tank BR11-1.*

Approximate location of Tank 127 and the report reference are added to revised Figure 2 (attached). The only known reference to the approximate location of Tank 127 is found in the Presidio Trust's "Request for No Further Action (NFA), Priority 8 Tanks, Submittal No. 1, Presidio of San Francisco", dated September 13, 2010, as follows:

Based on an interview cited in WES (1990), a single 1,500-gallon Bunker Oil UST was removed from the vicinity of Building 127 in 1978. According to a follow-up inspection conducted by MW [Montgomery Watson] in 1992, "a depression was found in the lawn south of Building 127 that may represent settlement into the tank removal pit." No other documentation was found for the UST in archives or elsewhere."

2. *Section 1.3, Conceptual Site Model, third bullet – The sentence states: "Groundwater data from installed groundwater monitoring wells indicate the direction of groundwater flow is to the northeast." However, Figure A-6-3 (Groundwater Elevation Map), which can be found on GeoTracker with the closure document for FDS Group 1g/Section BR11-1, shows the flow direction as due north to the San Francisco Bay. Please evaluate Figure A-6-3 and other available groundwater elevation data. Based on*

the evaluation, please revise the groundwater flow direction as necessary. Please indicate the groundwater flow direction on Figure 4.

The groundwater elevation at monitoring well GW02 (128A front yard) is consistent with the groundwater elevation contours shown on Figure A-6-3.¹ However, the groundwater elevations at boring SB004 (127B front yard) and monitoring wells GW01 (127B front yard) and GW03 (127A back yard) are approximately 30 to 40 feet above the anticipated elevations indicated on Figure A-6-3. Please evaluate and describe whether the groundwater at SB004, GW01, and GW03 is perched above a lower, laterally-continuous groundwater-bearing zone through which are screened well GW02 and the wells used to develop Figure A-6-3.

Based on your comments, TRC evaluated the groundwater hydrogeology beneath the site in more detail. To assist in interpretation of groundwater hydrogeology, geologic cross-sections were prepared and are presented on Figures F-1 through F-3 attached.

REGIONAL GEOLOGY AND HYDROGEOLOGY

TRC concurs with your assessment that the regional groundwater flow is northward towards San Francisco Bay consistent with Figure A-6-3 that you referenced, and with the Presidio-wide conceptual model described in *Draft Basewide Groundwater Monitoring Plan* by Montgomery Watson (MW) 1996.² Based on Google Earth imagery, the San Francisco Bay is located approximately 1,600 feet north of Building 127. Figure 4 has been revised to show the groundwater flow arrow directed northward towards the Bay.

Figure F-1 presents the locations for geologic cross-sections A-A' and B-B', presented on Figures F-2 and F-3 respectively. The site is underlain by relatively impermeable weathered Franciscan bedrock. Shallow bedrock was encountered near SB0004 at depths ranging from 25 fbg at SB014, 34.5 fbg at SB010, and 43.5 fbg at GW01. The Franciscan bedrock dips northward, and was not encountered in borings GW02, SB015, and SB020 advanced further downgradient, to the northeast of Building 127. Bedrock was encountered at 38 fbg at GW03, located due north of Building 127.

Above the bedrock are slope debris and ravine fill and/or the Colma Foundation, which consists of well bedded, fine to medium-grained sand with moderate amounts of detrital silt and clay. According to Montgomery Watson (1996):

“In areas where the water table is below the top of bedrock, perched groundwater is locally present just above the Franciscan bedrock Pleistocene contact. The thickness of the perched zone probably varies both seasonally and with the elevation and slope of the contact. The perched zone is generally relatively thin or absent during the summer in areas where the bedrock is relatively high and/or the Pleistocene contact is steep. Wells screened at the bottom of the late Pleistocene sediments in such areas could locally produce groundwater out of the perched zone; but it is unlikely that significant groundwater yield could be sustained for a significant period of time.”

¹ California Regional Water Quality Control Board (RWQCB). 2009. *No Further Action, Fuel Distribution System, FDS Closure Certification Report Phase I, Presidio of San Francisco, San Francisco County, Water Board Case No. 38D9327*. September 16.

² Montgomery Watson (MW). 1996. *Draft Basewide Groundwater Monitoring Plan, Presidio of San Francisco, California*. July.

Based on our further review of regional and local hydrogeology, shallow groundwater in the vicinity of Building 127 is correlated with shallow bedrock and likely constitutes localized perched groundwater on top of bedrock.

3. Section 1.3, Conceptual Site Model, new bullet – Please add a bullet that summarizes the transport and fate of secondary source groundwater¹ in the front yards of 127A/B. See also the comments on Section 5.2.

The primary source of contamination at this site is the historic fuel oil leak from Fuel Distribution System (FDS) Section BR11-1. The FDS pipelines were removed in 1997³, or more than 20 years ago. The secondary source of contamination is leaked fuel oil into the vadose zone, as discussed further in the response to Comment 5. Potential migration pathways include the following:

- Vapor migration through the soil;
- Free product migration through the vadose zone to groundwater, and subsequent dissolution of petroleum products into groundwater; and
- Dissolution of petroleum product constituents, located in the vadose zone, into percolating rainwater with seepage into the local or regional groundwater.

Based on TPH observed in soil and groundwater sample results, the groundwater impacts at SB004, and potentially also at nearby boring SB010, are limited in extent and constitute weathered hydrocarbons from a fuel line release that occurred more than 20 years ago. See updated Figure 4 attached. We draw this conclusion because TPH has not been detected in well GW01, located approximately 15 feet away from SB004. TPH-d has been detected inconsistently in downgradient wells, but below the MCL priority, and with silica gel cleanup is below detection limits. These results suggest that any residual soil impacts that remain in the vicinity of SB004 do not currently constitute a secondary source to groundwater.

As mentioned above, and shown on cross-sections F-2 and F-3 the shallow groundwater that is present in the vicinity of SB004 and nearby GW-01 likely constitutes a localized perched zone sitting on top of shallow bedrock. This perched groundwater is not likely hydraulically connected to the deeper groundwater zone encountered at GW02. Similarly, groundwater at well GW-03, and observed in nearby borings SB017 and SB015 also may be perched on a lower bedrock surface, also not connected to the regional aquifer. These shelves of perched water (as measured in July) likely vary in size seasonally and year to year based on the amount of annual rainfall. Any excess water in these zones drains to the regional aquifer measured at GW-02.

Based on this hydrogeological conceptual site model, the three monitoring wells are appropriately screened to monitor the permeable zones that overlie the weathered bedrock.

See also response to Comment 7.

4. Section 2.0, Chemicals of Concern – Please revise this section to include all chemicals of concern (COCs).

³ Presidio Trust. 2006. *Fuel Distribution System, FDS Closure Certification Report – Phase I, Presidio of San Francisco, California, REQUEST FOR CLOSURE CERTIFICATION*. January 27.

• **Groundwater:** Please indicate that TPH-g, TPH-d, and TPH-mo are actual COCs, based on their concentrations in groundwater at SB004 and the observations of heavy petroleum contamination in the groundwater-bearing zone at boring SB010.

Comment noted. The revised report will include all COCs.

• **Sub-Slab/Soil Vapor:** TPH-g, TPH-d, and benzene are identified as COCs in soil gas beneath 127A and potentially beneath 127B.

We believe it is an understatement to indicate that TPH-g, TPH-d, and benzene are “potentially beneath 127B.” Maximum concentrations of gasoline-range total petroleum hydrocarbons (TPH-g), diesel-range TPH (TPH-d), and benzene in sub-slab/soil gas beneath adjacent 127A were 190,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), 39,000 $\mu\text{g}/\text{m}^3$, and 21 $\mu\text{g}/\text{m}^3$, respectively. Because the extent and magnitude of soil contamination beneath and in the front yard of adjacent 127B are greater than at 127A, it follows that it is quite likely that TPH-g, TPH-d, and benzene are COCs in the sub-slab/soil gas beneath 127B. Please revise the bullet to reflect likely soil vapor conditions beneath 127B.

Additionally, please add methane as a COC in sub-slab/soil gas because it has been detected beneath the slab of 127A at a concentration of up to 2.01% by volume, or 40% of the lower explosive limit (LEL) of 5% by volume. Typically, response actions are triggered if methane is present at 10 to 20% of the LEL.

Comments noted. The revised report will remove the word “potentially” with respect to COCs beneath 127B. Methane will also be added as a COC.

5. **Section 5.1, Soil Impact Delineation, first bullet (Unit 127A)** – The report should be revised to add: Cross-section(s) to illustrate the distribution of TPH-d contamination beneath and in the front yard of 127A

Comment noted. Cross-sections will be included in the revised report as new Attachment F. See Figures F-1, F-2 and F-3.

6. **Section 5.1, Soil Impact Delineation, second bullet (Unit 127B)** – The report should be revised to address the following:

- The lateral extent of TPH-d in soil above the Tier 1 ESL includes borings 127BEX102 (west) and 127BEX115 (north). The dashed approximate extent of TPH-d soil contamination shown on Figure 3A should be redrawn to include these borings.
- Cross-section(s) should be developed to illustrate the distribution of TPH-d contamination beneath and in the front yard of 127B. The cross-section(s) should assist the feasibility evaluation of contaminated soil cleanup.
- Given the high TPH-d concentrations in soil of the front yard of 127B, up to 18,000 mg/kg at boring SB010 (5 feet below ground surface [bgs]), please provide a technical justification for concluding that “soil contamination [in the front yard] does not appear to be mobile ...”

Figure 3a (attached) is updated as requested to include lateral extent of contamination to include boring 127BEX115 and 127BEX102 to the west. See also response to Comment 7.

7. **Section 5.2, Groundwater Delineation** – TPH-g, TPH-d, and motor oil-range TPH (TPH-mo) concentrations in groundwater at SB004 in 127B's front yard were 1,900 µg/L, 170,000 µg/L, and 13,000 µg/L, respectively. Although groundwater samples were not collected from nearby boring SB010, review of its boring log indicates heavy petroleum contamination from 18 to 31 feet bgs in saturated sand. The boring log describes "brownish liquid bubbles," "light brownish liquid," and "product suspected."

Down-gradient of SB004/SB010, TPH-contaminated groundwater appears to be bounded by borings SB015 (127A side yard) and SB017 (127A front yard) and monitoring well GW03 (127A backyard). However, SB015 and SB017 were not extended to bedrock. Because the borings were not extended to bedrock, TPH-contaminated groundwater may travel within the upper, weathered bedrock beneath the total depth of SB017 and SB015.

Please provide an acceptable technical justification for concluding that "groundwater beneath the Site has not been significantly affected ... beyond the localized impacts [in the front yard] of Building 127B [i.e. beyond SB004 and SB010]." The justification should address the possibility that perched, secondary source groundwater at SB004/SB010 may travel to the edge of an underlying low-permeability layer, migrate down through the vadose zone to the sand- bedrock interface, and thence down-gradient along the north-sloping interface.

The extent(s) of groundwater contamination should be indicated on Figure 4. If the down-gradient extent of TPH-contaminated groundwater cannot be acceptably delineated, then the report must propose additional investigation to do so.

Responses to our comments on this section should inform revision of the Section 1.3, Site Conceptual Model (additional bullet summarizing the transport and fate of secondary source groundwater).

As mentioned previously, the first encountered groundwater in the vicinity of SB004 and adjacent monitoring well GW01 likely represents a localized zone of perched groundwater at approximately 23 to 27 fbg, atop shallow bedrock. Borings 20 to 25 feet east and southeast (SB013 and SB014) of SB004 did not encounter perched groundwater. Likewise, borings performed on the north side of Building 127 did not encounter groundwater until approximately 34 fbg at GW03 and approximately 41 fbg at SB015 and SB017. This suggests that the perched groundwater near SB004 is limited in extent. These observations support the conclusion that residual TPH observed at SB004 are not mobile.

TPH-contaminated groundwater is not likely to travel within the upper, weathered bedrock beneath the total depth of SB017 and SB015 because significant TPH impacts are not observed at well GW03, which is screened across the contact with the Franciscan Complex bedrock. Well GW03 is located due north of SB004, in the direction of the regional groundwater flow. Furthermore, the weathered bedrock that was encountered in borings SB010, SB012, and SB013, and wells GW01 and GW03 contained low permeability clays within the fractures, which is not conducive to groundwater flow.

TPH has not been detected in well GW01, located approximately 15 feet away from SB004, above laboratory reporting limits. TPH-d has been detected inconsistently in downgradient wells, but below the MCL priority level, and below detection limits with silica gel cleanup. Based on the guidance in the 2012 LUFT Manual⁴

⁴ California State Water Resource Control Board. 2012. *Leaking Underground Fuel Tank Guidance Manual*. September.

(CSWRCB, 2012), petroleum plumes should be monitored using this method due to potential interferences by biogenic petroleum in groundwater resources. These results suggest that any residual soil impacts remaining in the vicinity of SB004 do not currently constitute a secondary source to groundwater.

Although TPH-d was detected inconsistently in samples from downgradient well GW03 and boring SB017, concentrations (without silica gel cleanup) do not exceed the MCL Priority of 200 µg/L or the fresh water or saltwater aquatic habitat ESL of 640 µg/L. Therefore, the plume is limited in extent and does not pose a threat to San Francisco Bay, located over 1,600 feet to the north. Furthermore, free product has not been detected in any of the wells.

You noted a potential contaminant transport pathway for perched, secondary source groundwater at SB004/SB010 where TPH-impacted groundwater travels to the edge of an underlying low-permeability layer, migrates down through the vadose zone to the sand- bedrock interface, and thence down-gradient along the north-sloping interface. This potential contaminant transport pathway does not appear to be complete because significant TPH impacts have not been detected in downgradient wells GW02 and GW03, both screened downslope along the north-sloping bedrock interface.

While we concur with you that there may be localized groundwater impacts near SB004 and SB010, note that the SB004 boring was terminated (due to equipment limitations) at 27 feet bgs in what would be the top or smear zone of the first encountered groundwater. The reported COC concentrations in the grab groundwater are most likely biased high because the act of collecting grab groundwater sample disturbs the soil structure, which greatly increases petroleum-impacted soil particles and can release immobile product from the soil pores⁵. It has been shown that turbid samples from the smear zone are not representative of dissolved-phase concentrations, because the non-dissolved petroleum contained within the samples as turbidity is included in the analysis (Zemo, 2009)⁶.

The probability of free product at the groundwater interface is low, based on the sampling limitations described above and because neither free product or dissolved petroleum hydrocarbons are present in samples from well GW01, located approximately 15 feet away, and was not observed in other borings performed in the vicinity of SB004 and SB010.

On a final note, we reviewed the five groundwater criteria presented in the *Low-Threat Underground Storage Tank Case Closure Policy*⁷ and find that the site conditions satisfy Criteria 1:

- The contaminate plume that exceeds water quality objectives is less than 100 feet in length (localized around SB004 and SB0-010).
- There is no free product; and
- The nearest existing water supply well or surface water body is greater than 250 feet from the defined plume boundary.

8. Section 6.0, Conclusions and Recommendations – *This section should be revised to be consistent with preceding revisions to the report. Also, the second paragraph should be revised to describe that the proposed remedial action to address contamination has not been determined. Rather, as a next step, a feasibility*

⁵ RWQCB. 2012. Leaking Underground Fuel Tank Guidance Manual. September (Revised December 2015)

⁶ Zemo, Dawn A. 2009. Suggested Methods to Mitigate Bias from Non-dissolved Petroleum in Groundwater Samples Collected from the Smear Zone. August 3.

⁷ SRWQCB. 2012. Low-Threat Underground Storage Tank Case Closure Policy. August 17.

evaluation will be performed to analyze remedial action alternatives, using standard environmental industry practices.

Based on the age of the primary release, the lack of widespread impacts to groundwater, and the low potential for future impact to groundwater, and as supported by site conditions that satisfy Criteria 1 of the *Low-Threat Underground Storage Tank Case Closure Policy*, no further investigation of groundwater is recommended. Groundwater monitoring will continue for one more quarter (4 total quarters). Assuming the fourth quarter data are similar to the first three sampling events (See Table 2), no further action relative to groundwater is warranted.

As you mentioned, the next step is to complete a Feasibility Evaluation to analyze remedial action alternatives for the soil vapor pathway, including a comparison of secondary source (impacted soil) excavation to vapor mitigation within the building. Based on the outcome of the Feasibility Evaluation, a Corrective Action Plan will be prepared and submitted to you for approval.

We would like to meet with you at your convenience to go over this matter. Please feel free to call Sally Schoemann at 925-381-6490 or Alfonso Ang at 415-644-3003, if you have any questions or concerns.

Sincerely,

Sally Schoemann, P.E.
Principal Engineer
TRC Solutions

Alfonso Ang, P.E.
Senior Project Manager
TRC Solutions

cc: Nina Larssen, Presidio Trust Remediation Manager
Justin Hanzel-Durbin, TRC

Attachments

Tables

Table 2 and Table 3 – Updated with January 2019 Groundwater Monitoring Data

Figures

Figure 2 – revised

Figure 3a – revised

Figure 4 – revised

Figure F-1 Cross Section Locations

Figure F-2 Cross Section A-A'

Figure F-3 Cross Section B-B'

San Francisco Bay Regional Water Quality Control Board

June 19, 2019
Geotracker ID: T10000001505 (JDW)

Presidio Trust
Attn. Ms. Nina Larssen
Remediation Project Manager
67 Martinez Street, P.O. Box 29052
San Francisco, CA 94129
Via email: nlarssen@presidiotrust.gov

Subject: Regional Water Board Review of the Nov. 7, 2018 Supplemental Site Investigation Report and March 6, 2019 DRAFT Response to Comments Fuel Distribution System Section BR11-1, Riley Avenue Site Presidio of San Francisco

Dear Ms. Larssen:

I reviewed the subject report, which presents the results of the supplemental soil and groundwater investigation at the Riley Avenue Site (Site). I also reviewed the Draft Response to Comments (Draft RTCs) that address my January 3, 2019 comments on the report and present new groundwater monitoring data, geologic cross-sections, and other information. Based on my review, I have additional comments that are described below. The primary goal of these comments is to produce an accurate characterization of contamination and risk that is necessary for a useful feasibility evaluation of Site cleanup alternatives.

1. **Section 1.1, Site Description** – Please provide an acceptable technical justification for not investigating potential contamination in the area of the former 1,500-gallon underground storage tank in the yard of Unit 127B, which supplied fuel oil to the FDS, Section BR11-1.
2. **Section 5.1, Soil Impact Delineation** – Please depict the extent of soil contamination on the Figure F-2 and F-3 cross-sections.
3. **Section 5.2, Groundwater Delineation** – The extent of groundwater contamination must be acceptably delineated on Figure 4. The 100-square-foot “localized plume of impacted groundwater” shown on Figure 4 is unrealistically small. A larger plume size is indicated by the magnitude of contamination at borings SB004 and SB010 within this area, as well as the presence of sand beneath the release through which petroleum contamination could migrate for decades.

Further, it is not clear what the “localized plume of impacted groundwater” represents on Figure 4. Is it the extent of combined diesel- and motor oil-range total petroleum hydrocarbons (TPH-d and TPH-mo) in groundwater at concentrations greater than Regional Water Board environmental screening levels (ESLs)? Is it the extent of combined

DR. TERRY F. YOUNG, CHAIR | MICHAEL MONTGOMERY, EXECUTIVE OFFICER

gasoline- and Bunker C-oil range TPH (TPH-g and TPH-bc) in groundwater at concentrations greater than ESLs? Is it the extent of petroleum in groundwater at concentrations greater than or equal to laboratory detection limits? I recommend that following extents of contamination be delineated on Figure 4:

- a. NAPL (note, the extent of NAPL, in part, may appear as a linear feature along the length of the leaking FDS pipe);
- b. Dissolved petroleum in groundwater at concentrations greater than ESLs; and
- c. Dissolved petroleum in groundwater greater than or equal to detection limits.

The report must be revised acceptably to describe and depict the nature and full extent of groundwater contamination. Please add laboratory analytical results for TPH-bc to Figure 4.

4. **Section 6.0, Conclusions and Recommendations, last bullet** – The bullet states that “[g]roundwater detections during the supplemental investigation consisted of petroleum metabolite and/or biogenic hydrocarbons and no free product was observed during the supplemental investigation or groundwater monitoring event.” RTC 7 states that “there is no free product.”

Based on multiple lines of evidence, free product likely exists. First, TPH-g, TPH-d, and TPH-mo concentrations in groundwater at boring SB004 in Unit 127B’s front yard were very high: 1,900 µg/L, 170,000 µg/L, and 13,000 µg/L, respectively. The TPH-d concentration is much greater than the solubility of fresh diesel. Second, the log for boring SB010 describes “brownish liquid bubbles,” “light brownish liquid,” and “product suspected” in the saturated sand from approximately 17 to 25 feet below ground surface (bgs). Third, our Technical Specialist reviewed the chromatogram for the SB004 groundwater sample and described it as such:

“This looks like weathered diesel NAPL. The Unresolved Complex Mixture (UCM) spans the same time interval on the x-axis, so that indicates hydrocarbons not metabolites. The quantitation is well above what is expected for fresh diesel (about 1,000 – 5,000 µg/L). The UCM looks like product (NAPL) and it’s lost the n-alkane peaks so typical of weathered hydrocarbons. It might indicate mobile NAPL.”

Regarding fuel oil’s mobility, the TPH-d concentrations in samples from SB010 (up to 18,000 mg/kg) and SB004 (to 12,000 mg/kg) may be greater than fuel oil’s residual saturation, indicating potential NAPL mobility. Also, the fuel oil release was certainly mobile in the past, or it would not have traveled down through approximately 17 feet of clay and more than 15 feet of Colma Formation sand to Franciscan bedrock in the area of borings SB004 and SB010. I agree that due to its viscosity, fuel oil is less or much less mobile than other fuels (e.g., compared to diesel and gasoline).

The report must acceptably describe the occurrence, nature, and mobility of subsurface NAPL.

Section 6.0, Conclusions and Recommendations – Based on RTC 7, it appears that the Trust may be pursuing closure under the Low-Threat Underground Storage Tank Case Closure Policy (LTUCP), or selectively using the LTUCP’s groundwater-specific criteria to show that the Site poses a low threat to human health and the environment. However, the LTUCP is meant for sites where there has been cleanup “of a substantial fraction of a petroleum contaminant mass with the investment of a reasonable level of effort.” All of the general criteria must also be satisfied for eligibility, including:

June 19, 2019

- d) Free product has been removed to the maximum extent practicable. For the reasons provided above, free product likely exists in the subsurface. No free product has yet been removed.
- e) A conceptual site model (CSM) that assesses the nature, extent, and mobility of the release has been developed. Although the report's CSM is mostly complete, it must be revised to acceptably describe the nature, extent, and mobility of the release.
- f) Secondary source has been removed to the extent practicable. In 2017, a limited amount of soil was removed beneath the former basement slab of Unit 127B. Overall, little mass of petroleum-impacted soil or groundwater at the point of the release has been removed.

Further, the Site satisfies none of the low-threat criteria for the vapor-intrusion-to-indoor-air pathway, because soil contamination is in, or nearly in, direct contact with the basement slabs of Units 127B, 127A, and 128A (i.e., there is no bio-attenuation zone).

The risk driver is petroleum vapor intrusion (VI) from subsurface soil to indoor air. To mitigate VI to the indoor air of Unit 127B, a sub-slab venting system has been installed there. Further, land use controls, including annual inspections and inter-occupancy indoor air sampling, will be implemented at Units 127A and 127B, to ensure long-term protection of human health. It is my understanding that the feasibility evaluation of remedial alternatives, which could minimize the level and timeframe of the VI risk, is underway. I look forward to reviewing the feasibility evaluation report.

The Regional Water Board may in the future determine that the petroleum plume poses a low threat to human health and the environment. In that event, then we would close the case by issuing a "No Further Action" letter. To advance this case toward closure, please continue groundwater monitoring on an annual basis, to confirm that the petroleum groundwater plume is accurately delineated and stable or decreasing in areal extent.

If you have any questions, please contact me at 510.622.2375 or jeff.white@waterboards.ca.gov.

Sincerely,

Jeff White
Water Resource Control Engineer
Groundwater Protection Division

cc: Alfonso Ang, TRC
Justin Hanzel-Durbin, TRC
Sally Schoemann, TRC



August 2, 2019

Mr. Jeff White
Water Resource Control Engineer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Subject: *Supplemental Site Investigation Report and Second Response to Comments*
Regional Water Quality Control Board Review of the Nov. 7, 2018 Supplemental Site Investigation Report and March 6, 2019 DRAFT Response to Comments
Fuel Distribution System Section BR11-1, Riley Avenue, Presidio of San Francisco

Dear Mr. White:

On behalf of the Presidio Trust, TRC submits the *Supplemental Site Investigation Report for Fuel Distribution System Section BR11-1*, on Riley Avenue in the Presidio of San Francisco (Amended SSI Report), and presents the following response to your comments (RTCs) dated June 19, 2019 on the *Draft Supplemental Site Investigation Report* (SSI report), dated Nov. 7, 2018. Your comments also included your review of TRC's *Draft Response to Comments*, dated March 6, 2019. Each of your comments are presented below in italics, followed by our response.

Comment 1. Section 1.1, Site Description – *Please provide an acceptable technical justification for not investigating potential contamination in the area of the former 1,500-gallon underground storage tank in the yard of Unit 127B, which supplied fuel oil to the FDS, Section BR11-1.*

Response: Since our March 2019 letter, the Trust further researched historic documents and new information emerged confirming the location of the UST in the southwest corner of the Unit 127B yard. Additional historic documents confirm the location of former UST 127 to be in the landscaped area just north of the Riley Avenue and Sheridan Avenue intersection (Attachment A). The 1,500-gallon capacity underground storage tank (UST) was removed in 1978 and received a no further action (NFA) from the RWQCB in 2013. The NFA concurrence was based on a review of historical records and observation during renovations of the building and landscape areas as well as monitoring results from four nearby groundwater monitoring wells, conducted over the years since the tank was removed - all indicating no significant residual petroleum impacts in the vicinity of the former UST 127. Moreover, sample results from soil borings SB007, BR11-1SB011, BR11-1SB012, and BR11-1SB013, which are located between the former tank location and the fuel release at building 127, are all below screening levels for TPH as gasoline, diesel and motor oil. This further supports the conclusion that the petroleum-contaminated soil associated with BR11-1 did not originate at the former UST 127 location.

Comment 2. Section 5.1, Soil Impact Delineation – *Please depict the extent of soil contamination on the Figure F-2 and F-3 cross-sections.*

Response: The extent of soil contamination above environmental screening levels is shown on revised Figures F-2 and F-3 in the Amended SSI Report.

Comment 3. Section 5.2, Groundwater Delineation – *The extent of groundwater contamination must be acceptably delineated on Figure 4. The 100-square-foot “localized plume of impacted groundwater” shown on Figure 4 is unrealistically small. A larger plume size is indicated by the magnitude of contamination at borings SB004 and SB010 within this area, as well as the presence of sand beneath the release through which petroleum contamination could migrate for decades.*

Further, it is not clear what the “localized plume of impacted groundwater” represents on Figure 4. Is it the extent of combined diesel- and motor oil-range total petroleum hydrocarbons (TPH-d and TPH-mo) in groundwater at concentrations greater than Regional Water Board environmental screening levels (ESLs)? Is it the extent of combined gasoline- and Bunker C-oil range TPH (TPH-g and TPH-bc) in groundwater at concentrations greater than ESLs? Is it the extent of petroleum in groundwater at concentrations greater than or equal to laboratory detection limits? I recommend that following extents of contamination be delineated on Figure 4:

- a. NAPL (note, the extent of NAPL, in part, may appear as a linear feature along the length of the leaking FDS pipe);*
- b. Dissolved petroleum in groundwater at concentrations greater than ESLs; and*
- c. Dissolved petroleum in groundwater greater than or equal to detection limits.*

The report must be revised acceptably to describe and depict the nature and full extent of groundwater contamination. Please add laboratory analytical results for TPH-bc to Figure 4.

Response: Based on additional laboratory analyses (i.e. silica gel cleanup) and follow-up evaluations from the RWQCB’s Technical Specialist and TRC’s specialists, the localized groundwater plume of TPH-d shown on Figure 4 is expanded in the Amended SSI Report. In addition, the extent of suspected non-aqueous phase liquid (NAPL), dissolved petroleum in groundwater greater than ESLs, and laboratory analytical results for TPH-bc were also added to Figure 4.

Based on the results presented on Figure 4 and our conference call on May 16, 2019, we concur that groundwater monitoring should continue on an annual basis (first quarter 2020 to be the next event) and groundwater impacts will be reevaluated with each monitoring event and reported in the Trust’s Annual Report to the RWQCB. The additional year of groundwater monitoring will include standard field parameters plus laboratory analyses for TPH-g, TPH-d, TPH-mo, TPH-bc, and total dissolved solids (TDS), but will no longer include polycyclic aromatic hydrocarbons (PAH’s), volatile organics, benzene, toluene, ethylbenzene and xylene (BTEX) not detected in groundwater during the completed four quarters of monitoring.

Comment 4. Section 6.0, Conclusions and Recommendations, last bullet – *The bullet states that “[g]roundwater detections during the supplemental investigation consisted of petroleum metabolite and/or biogenic hydrocarbons and no free product was observed during the supplemental investigation or groundwater monitoring event.” RTC 7 states that “there is no free product.”*

Based on multiple lines of evidence, free product likely exists. First, TPH-g, TPH-d, and TPH-mo concentrations in groundwater at boring SB004 in Unit 127B’s front yard were very high: 1,900 µg/L, 170,000 µg/L, and 13,000 µg/L, respectively. The TPH-d concentration is much greater than the solubility of fresh diesel. Second, the log for boring SB010 describes, “brownish liquid bubbles,” “light brownish liquid,” and “product suspected” in the saturated sand from approximately 17 to 25 feet below ground surface (bgs). Third, our Technical Specialist reviewed the chromatogram for the SB004 groundwater sample and described it as such:

“This looks like weathered diesel NAPL. The Unresolved Complex Mixture (UCM) spans the same time interval on the x-axis, so that indicates hydrocarbons not metabolites. The quantitation is well above what is expected for fresh diesel (about 1,000 – 5,000 µg/L). The UCM looks like product

(NAPL) and it's lost the n-alkane peaks so typical of weathered hydrocarbons. It might indicate mobile NAPL."

Regarding fuel oil's mobility, the TPH-d concentrations in samples from SB010 (up to 18,000 mg/kg) and SB004 (to 12,000 mg/kg) may be greater than fuel oil's residual saturation, indicating potential NAPL mobility. Also, the fuel oil release was certainly mobile in the past, or it would not have traveled down through approximately 17 feet of clay and more than 15 feet of Colma Formation sand to Franciscan bedrock in the area of borings SB004 and SB010. I agree that due to its viscosity, fuel oil is less or much less mobile than other fuels (e.g., compared to diesel and gasoline).

The report must acceptably describe the occurrence, nature, and mobility of subsurface NAPL.

Response: The text in the Amended SSI Report is revised to remove the reference to "no free product" being present. Although free product has not been observed by field sampling staff or confirmed in analytical testing, we concur with you that the concentrations present in select grab groundwater and soil samples indicate a likelihood that free product exists in the vicinity of SB004 and SB010. To capture this potential risk, the final SSI Report text and Figure 4 are revised to include the potential for the presence of free product along a limited section of FDS piping that was historically located above locations SB004 and SB010.

Comment 5. Section 6.0, Conclusions and Recommendations, last bullet – *Based on RTC 7, it appears that the Trust may be pursuing closure under the Low-Threat Underground Storage Tank Case Closure Policy (LTUCP), or selectively using the LTUCP's groundwater-specific criteria to show that the Site poses a low threat to human health and the environment. However, the LTUCP is meant for sites where there has been cleanup "of a substantial fraction of a petroleum contaminant mass with the investment of a reasonable level of effort." All of the general criteria must also be satisfied for eligibility, including:*

- d. Free product has been removed to the maximum extent practicable. For the reasons provided above, free product likely exists in the subsurface. No free product has yet been removed.*
- e. A conceptual site model (CSM) that assesses the nature, extent, and mobility of the release has been developed. Although the report's CSM is mostly complete, it must be revised to acceptably describe the nature, extent, and mobility of the release.*
- f. Secondary source has been removed to the extent practicable. In 2017, a limited amount of soil was removed beneath the former basement slab of Unit 127B. Overall, little mass of petroleum-impacted soil or groundwater at the point of the release has been removed.*

Further, the Site satisfies none of the low-threat criteria for the vapor-intrusion-to-indoor-air pathway, because soil contamination is in, or nearly in, direct contact with the basement slabs of Units 127B, 127A, and 128A (i.e., there is no bio-attenuation zone).

The risk driver is petroleum vapor intrusion (VI) from subsurface soil to indoor air. To mitigate VI to the indoor air of Unit 127B, a sub-slab venting system has been installed there. Further, land use controls, including annual inspections and inter-occupancy indoor air sampling, will be implemented at Units 127A and 127B, to ensure long-term protection of human health. It is my understanding that the feasibility evaluation of remedial alternatives, which could minimize the level and timeframe of the VI risk, is underway. I look forward to reviewing the feasibility evaluation report.

The Regional Water Board may in the future determine that the petroleum plume poses a low threat to human health and the environment. In that event, then we would close the case by issuing a "No



505 Sansome St., Suite 1600
San Francisco, CA 94111

T 415.434.2600
TRCcompanies.com

Further Action” letter. To advance this case toward closure, please continue groundwater monitoring on an annual basis, to confirm that the petroleum groundwater plume is accurately delineated and stable or decreasing in areal extent.

Response: As discussed during the May 16, 2019 call, the Trust is not pursuing closure under the Low-Threat Underground Storage Tank Case Closure Policy (LTUCP) and does not intend to selectively use the LTUCP’s groundwater-specific criteria to show that the Site poses a low threat to human health and the environment. The final SSI Report is edited to clarify this intent. In addition, the Trust intends to implement annual monitoring in the first quarter of each year as described in the response to Comment 3.

As noted in the report, vapor intrusion (VI) risk to human health and environmental receptors will be addressed in the pending Feasibility Study/Corrective Action Plan. Additionally, and as suggested by the RWQCB, the Trust plans to include land use controls, including annual inspections and inter-occupancy indoor air sampling as part of the long-term monitoring of the Site.

If you have any questions or would like to set up a meeting to discuss our responses the comments addressed above in more detail, please feel free to call Sally Schoemann at 925-381-6490 or Alfonso Ang at 415-644-3003.

Sincerely,

A handwritten signature in black ink that reads "Sally Schoemann".

Sally Schoemann, P.E.
Principal Engineer
TRC Solutions, Inc.

A handwritten signature in blue ink that reads "Alfonso Ang".

Alfonso Ang, P.E.
Senior Engineer/Project Manager
TRC Solutions, Inc.

cc: Nina Larssen, Presidio Trust Remediation Manager
Justin Hanzel-Durbin, TRC

Attachments:

Attachment A – Tank 127 Historical Information

1253
CN: 3A17 003

PHASE II PRELIMINARY ASSESSMENT
PRESIDIO OF SAN FRANCISCO

UNDERGROUND STORAGE TANK
DATA SHEETS

UNDERGROUND STORAGE TANK LOCATION AND STATUS ASSESSMENT PRESIDIO OF SAN FRANCISCO

Background

The Presidio of San Francisco (PSF) has been recommended for closure by the Defense Secretary's Commission on Base Realignment and Closure. An enhanced Preliminary Assessment (PA) of the PSF has been completed by the U.S. Army Toxic and Hazardous Materials Agency (USATHAMA). The enhanced PA states that underground storage tanks (USTs) represent the greatest potential threat to the environment at the PSF. Personnel of the Base Closure Division, USATHAMA, requested that the Geotechnical Laboratory (GL), U.S. Army Engineer Waterways Experiment Station (WES), conduct a Phase II PA at the PSF. The on-site work at PSF was performed by a team of four WES personnel during the period 7 February through 3 March 1990.

Procedures

The Phase II PA was accomplished by a combination of interviews, map file searches, surface and in-building reconnaissance, and geophysical surveys. The PSF Directorate of Engineering and Housing (DEH) was base of operations during the on-site investigations. DEH personnel were interviewed for their knowledge of USTs at the PSF, and DEH historical map files were searched for UST information. Using this information and the findings of the enhanced PA, a comprehensive reconnaissance survey of all suspected UST locations was conducted. The reconnaissance survey consisted of

1. Interviews with occupants of buildings associated with UST locations;
2. Inspection surveys around and within buildings to locate physical evidence of the presence of USTs.

For USTs with unknown locations following the reconnaissance survey, surface geophysical methods were used to confirm or refute the existence of the USTs and to map locations. Two electromagnetic (EM) systems were used for the geophysical surveys, the Geonics EM-38 and the Geonics EM-31. These EM systems have different depth of investigation and horizontal resolution capabilities. The EM-38 has an effective depth of investigation of approximately 1.5 m and is not affected by the presence of

surface or other buried features greater than 1-2 m distant. The EM-31, utilized in the in-phase mode, has an effective depth of investigation of 4-5 m.

The geophysical surveys relied on referencing locations to the buildings associated with each tank location; or in case of locations where the buildings have been removed, the tank locations were referenced to some other nearby landmark. The geophysical survey procedure consisted of scanning the area surrounding buildings with unknown UST locations. After the scanning, anomalous areas were crisscrossed on closely spaced survey lines in an effort to outline the tank location. At some sites, there was considerable interference with the EM surveys from buried pipes and utilities and nearby surface metallic objects.

Appendix G, "Underground Storage Tanks at PSF", and Table 3-2, "Unconfirmed but Probable Underground Storage Tanks", from the PA report served as points of departure for the on-site surveys. Additional UST sites for investigation were added to the lists based on interviews and reconnaissance. Approximately 30 USTs are apparently registered with the State of California; the list of registered USTs was cross-referenced with the PA UST list.

For each site investigated, a UST Information Sheet was completed, including a location sketch if possible. For tanks underneath the concrete floors of basements, the sketches may only indicate the location of supply pipes. For the housing/quarters areas with tanks below the building basements, where there are many identically, contemporaneously constructed buildings, it was physically impossible to gain access to each building. For these situations, the UST location determination relied on drawings (if available) and access to a selected few buildings to establish a pattern for the buildings of a particular style. The primary areas in which the establishment of a pattern was utilized for location were the 500 and 700 areas.

Where possible, access to the USTs was attempted. In many cases, access caps and plugs were rusted and could not be easily removed. Also, many of the USTs had access caps and plugs requiring special devices for removal. In a few cases, access was not completed or attempted for safety reasons; e.g., at PSF-1110.2, the tank was under pressure.

Results

The results of the UST location and status assessment surveys are summarized in the tabulation below:

- 228 - - total confirmed USTs at PSF
- 86 - - USTs listed in PA which apparently do not exist
- 81 - - USTs confirmed which are not listed in PA
- 4 - - USTs listed in PA which the surveys failed to confirm or refute
- 3 - - USTs which are registered and listed in PA but apparently do not exist
- 42 - - USTs with confirmation based on pattern recognition
- 17 - - USTs which are apparently in an active status

Detailed results of the surveys are presented in two forms, a database listing and a compilation of UST Information Sheets. The tank identification includes the PSF identification, building number, and a numerical designator corresponding to the number of tanks at the building location (1-4 for example). The key to the database listing is contained in the second column under the heading "Code." The code is a cryptic summary of status of the UST and the manner in which that status was determined. The first letter in the code indicates whether the UST was listed (L) in the PA or not (U). The second letter indicates whether the UST is confirmed (C), apparently doesn't exist (X), has been removed (R), or has an unknown status (F; failed to confirm or refute). The remainder of the letters in the code indicate the manner in which the UST was confirmed: surface indications (S), geophysics (G), drawings (D), pattern (P), accessed (A). When access was possible, a rod was used to determine depth to bottom of the tank and depth of liquid in the tank. Depths to the top of most tanks at PSF are in the 1-4 ft range, while observed and reported depths to bottom ranged from 4 to 12 ft. The tanks at PSF-1802.1 and .2 lie at a depth to top of 7 ft and (based on reported capacity) a depth to bottom of approximately 17 ft.

The third column contains a brief location description for each listing. Additional details regarding location are contained in the comments column (last column) in some cases. Tank size in gallons, indicated in the seventh column, was found on drawings, from interviews, and, where shown with an asterisk, from the PA. Only five USTs were found to be made of materials other than steel: one concrete, one redwood, three fiberglass. Tank contents were determined from interviews, the PA listing, or, in the case of direct access, the appearance and/or smell of the contents. The tank contents can be grouped in four categories: bunker oil, a thick, viscous, black oil product; fuel oil and diesel; gasoline; and other. There was some uncertainty among the WES team as well as PSF personnel on the distinction

and classification of fuel oil and diesel. The other category includes cleaning solvents, waste oil products, pesticide wash, hydraulic oil, and oily water.

In addition to problems with leaking USTs in the 900-area which were identified in the PA, two additional sites were found which require prompt remediation or safety corrective measures. At location PSF-1260, a UST with a capacity of approximately 12,000 gallons, containing a significant volume of gasoline, had a severed fill/access pipe. PSF-1260 is in an area being utilized as construction waste storage area and the fill pipe had apparently been severed at ground level by construction equipment. The area was flagged and the construction foreman was notified regarding the location of the UST. At location PSF-1399, the Battery Dynamite area, a large tank containing fuel oil was discovered with an open fill pipe.

Remediation efforts which involve UST excavation should consider the following comments and suggestions:

1. Depths to top of USTs at PSF are generally less than 4 ft unless noted otherwise; if excavation at a site proceeds to greater than this depth (say 6 ft) with no indication, then the UST likely does not exist;

2. Due to uncertainty over the fuel oil/diesel distinction, remediation efforts should be prepared for either substance when one or the other is indicated;

3. Unless noted otherwise, USTs should be assumed to contain petroleum products, since only two of the tanks accessed were found to be empty, two were filled with sand, and five were filled with fluids other than petroleum products; with the proper tools, many more USTs can be accessed prior to excavation.

29 March 1990

John,

Enclosed is a narrative for the PSF Phase II PA, the database listing, and the individual UST Data Sheets. Please review and let me know if you desire any changes in database format or additional information in the narrative. When everything is finalized, we need to send a copy to you through our channels.

Of the funds expended to date, approximately \$5K should be attributed to the Hamilton AFB work (no travel, etc.). After the "dust settles" and all charges trickle in, we should have a balance of approximately \$10-12K.

The balance can be returned to you. Or, if there are additional gaps in the database you would like to try to fill, one person could go back to PSF for 2-3 days and actually accomplish quite a lot. For example, with the proper equipment (wrenches, slotted bars, etc.), it would be possible to access additional USTs, and with some preparatory work by the DEH it would be possible to reduce the number of USTs confirmed by pattern only. Also we could address the few sites in the LF category.

A handwritten signature in black ink, appearing to read "Dwain Butler". The signature is stylized and cursive.

Dwain Butler

RESIDIO OF SAN FRANCISCO
UNRECORDED STORAGE TANKS

RESIDIO OF SAN FRANCISCO
UNRECORDED STORAGE TANKS

TANK IDENTIFICATION CODE	LOCATION	SPECIES REGISTERED	SIZE	MATERIAL	CONTENTS	DEPTH TOP	DEPTH BOTTOM	VENT TYPE	FILLER	ACCESSED	AMOUNT	COMMENTS
PSF-65	LX	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	QUARTERS
PSF-66	LCSA	YES	ACTIVE	1000 GALS	STEEL	FUEL OIL	YES	YES	YES	5'0"	2'21"	EMERGENCY GENERATOR, CONTAINS FUEL MONITOR
PSF-99	LCSO	YES	NO	IMACTIVE	1000 GALS	STEEL	BURNER OIL	6 FT	YES	NO		BASE THEATER
PSF-100.1 AND 100.2	LCS	YES	NO	IMACTIVE	STEEL	BURNER OIL	YES	YES	NO			BAND FACILITY, BOILER ROOM ON EACH END OF BUILDING WITH TANKS
PSF-101.1 THRU .4	LCPA	YES	NO	IMACTIVE	STEEL	BURNER OIL	YES	YES	NO			BURNERS, TWO BOILER ROOMS, FOUR TANKS
PSF-102.1 THRU .4	LCPA	YES	NO	IMACTIVE	STEEL	BURNER OIL	YES	YES	NO			FRAM BLDG, TWO BOILER ROOMS, FOUR TANKS
PSF-103.1 THRU .4	LCPA	YES	NO	IMACTIVE	STEEL	BURNER OIL	YES	YES	YES	3 FT		EXISTING HOUSING, TWO BOILER ROOMS, FOUR TANKS
PSF-104.1 THRU .4	LCPA	YES	NO	IMACTIVE	STEEL	BURNER OIL	YES	YES	YES	4 FT		EXISTING HOUSING, TWO BOILER ROOMS, FOUR TANKS
PSF-105.1 THRU .4	LCPA	YES	NO	IMACTIVE	STEEL	BURNER OIL	YES	YES	NO			EMERGENCY OF BLDG, TWO BOILER ROOMS, FOUR TANKS
PSF-105.5	LCPSO	YES	NO	ACTIVE	1000 GALS	STEEL	DIESEL FUEL	3 FT	YES	NO		EMERGENCY OF BLDG, TANK FEELS EMERGENCY GENERATOR
PSF-106	LCPA	YES	NO	IMACTIVE	STEEL	BURNER OIL	NO	NO	YES	NO		SERVICED BY TANK AT BLDG 127
PSF-122	LX	NO	NO	NO	NO	NO	NO	NO	NO	NO		SERVICED BY TANK AT BLDG 127
PSF-123	LX	NO	NO	NO	NO	NO	NO	NO	NO	NO		SERVICED BY TANK AT BLDG 127
PSF-124	LX	NO	NO	NO	NO	NO	NO	NO	NO	NO		SERVICED BY TANK AT BLDG 127
PSF-125	LX	NO	NO	NO	NO	NO	NO	NO	NO	NO		SERVICED BY TANK AT BLDG 127
PSF-126	LX	NO	NO	NO	NO	NO	NO	NO	NO	NO		SERVICED BY TANK AT BLDG 127
PSF-127	LCPA	YES	NO	IMACTIVE	1500 GALS	STEEL	BURNER OIL		NO	NO		TANK REMOVED 1978

LEGEND FOR CODE

- L - LISTED IN PA APPENDIX C OR TABLE 3-2
- U - NOT LISTED IN PA APPENDIX C OR TABLE 3-2
- C - CONFIRMED EXISTANCE OF TANK (BY S.G.P.A. OR D)
- I - TANK NON-EXISTANT (BY S.G.P.A. OR D)
- R - CONFIRMED REMOVAL OF TANK (BY S.G.P.A. OR D)
- F - FAILED TO CONFIRM OR REFUTE EXISTANCE OF TANK (BY S.G.P.A. OR D)
- S - SURFACE EXPRESSIONS OF TANK (HEAT PIPES, FILLER TUBES, ETC.)
- G - GEOMETRICAL DEPRESSIONS OF TANK
- P - TANK EXISTANCE OR NON-EXISTANCE ESTABLISHED BY PATTERNS
- A - TANK WAS ACCESSED FROM SURFACE
- D - TANK EXISTANCE OR NON-EXISTANCE WAS CONFIRMED FROM AS-BUILTS
- * - DATA FROM PA

FRESIDIO OF SAN FRANCISCO
UNDERGROUND STORAGE TANKS

FRESIDIO OF SAN FRANCISCO
UNDERGROUND STORAGE TANKS

TANK IDENTIFICATION CODE	LOCATION	SKETCH REGISTERED	STATUS	SIZE	MATERIAL	CONTENTS	DEPTH	TOP	BOTTOM	VENT	TUBE	FILLER	ACCESSED	AMOUNT	COMMENTS
PSF-178	LX	NO	NO							NO	NO				SERVICED BY TANK AT 127
PSF-179	LX	NO	NO							NO	NO				SERVICED BY TANK AT 127
PSF-180	LCSA	NORTHWEST CORNER OF BLDG	YES	NO	STEEL	FUEL OIL				YES	YES	YES			GRAVEL BLDG
PSF-185	LX	NO	NO							NO	NO				NO CLUB
PSF-205	LCSA	WEST SIDE OF BLDG	YES	YES	STEEL	GASOLINE	2 FT	5 FT		YES	YES	YES	2.3 FULL		EMERGENCY GENERATOR BLDG
PSF-206	LX	NO	NO							NO	NO				
PSF-207.1 THRU .3	LCS	NASOM & HALLWAY	YES	YES	FIBERGLASS	GASOLINE				YES	YES	NO			FLECTUATES FILLING STATION, HAZOP RECEIPLY SYSTEM, MONITORING
PSF-210	LCS	BASMENT	YES	NO	STEEL	BUNKER OIL				YES	YES	NO			BARB POST OFFICE
PSF-215	URD		NO	NO	STEEL	BUNKER OIL				NO	NO				DRAWINGS INDICATE TANK REMOVED 30 DEC '88
PSF-217	LR		NO	NO	STEEL					NO	NO				REMOVED WHEN BURGER KING WAS BUILT
PSF-220	LX	NO	NO							NO	NO				HEADQUARTERS BLDG
PSF-227	UCS	NORTH END OF BLDG	YES	NO	STEEL	BUNKER OIL				NO	YES	NO			
PSF-228.1 THRU .3	LCSA	NORTH END OF BLDG	YES	NO	STEEL	CLEAN SOLVENT	7.7 FT			YES	YES	YES	0.8 FT		DRY CLEANING BLDG, ONLY TANK 228.1 WAS ACCESSED
PSF-231.1	LCSA	SOUTH END OF BLDG	YES	NO	STEEL	WASTE OIL				YES	YES	YES			FLECTUATES SERVICE GARAGE, TANK INSIDE BLDG
PSF-231.2	UCSA	SOUTH END OF BLDG	YES	NO	STEEL	GASOLINE	1 FT	6.5 FT		YES	YES	YES	3 FT		SERVICE GARAGE
PSF-249	LCSA	SOUTH END OF BLDG	YES	YES	CONCRETE	PESTICIDE WASH				YES	YES	YES			ENTOMOLOGOY BLDG
PSF-300.1	UCS	WEST SIDE OF BLDG	YES	NO	STEEL	SAND				YES	YES	NO			GOLF COURSE, TANK WAS FILLED WITH SAND

LEGEND FOR CODE

- L - LISTED IN PA APPENDIX C OR TABLE 1-2
- D - NOT LISTED IN PA APPENDIX C OR TABLE 1-2
- C - CONFIRMED EXISTENCE OF TANK (BY S.G.P.A. OR D)
- X - TANK NON-EXISTANT (BY S.G.P.A. OR D)
- R - CONFIRMED REMOVAL OF TANK (BY S.G.P.A. OR D)
- F - FAILED TO CONFIRM OR REPUTE EXISTENCE OF TANK (BY S.G.P.A. OR D)
- S - SURFACE EXPRESSIONS OF TANK (VENT PIPES, FILLER TUBES, ETC.)
- G - GEOMETRICAL EXPRESSIONS OF TANK
- P - TANK EXISTENCE OR NON-EXISTENCE ESTABLISHED BY PATTER
- A - TANK WAS ACCESSED FROM SURFACE
- D - TANK EXISTENCE OR NON-EXISTENCE WAS CONFIRMED FROM AS-BUILTS
- F - DATA FROM PA

4, X

UST INFORMATION FORM

SITE NAME: Bldg 122

TANK IDENTIFICATION NO.: BF-122 REGISTERED 110

DESCRIPTION: Size (Gal.): _____

Year Installed: _____ Diameter/Length(ft): _____

Depth to Top: _____ Steel (?): _____

Depth to Bottom: _____

Drop Tubes/Vents: 110

Product Stored: _____

Tested (?, details): 10

Status (Active, inactive, etc.): inactive

SITE DESCRIPTION (Geology, water table, monitoring wells, etc.):

SITE/TANK LOCATION SKETCH (Use back is needed):

COMPLETELY REMODELED IN BASEMENT.
THIS BUILDING ~~WAS~~ ^{MAY} HAVE ONCE BEEN
~~SERV~~ SERVICED BY THE TANK REMOVED
FROM IN FRONT OF BLDG 127.

Data Collected by: Thomas B Kean Jr Date: 2/23/90

L,X

UST INFORMATION FORM

SITE NAME: Bldg 124

TANK IDENTIFICATION NO.: PSE-124 REGISTERED NO

DESCRIPTION: Size (Gal.): _____

Year Installed: _____ Diameter/Length(ft): _____
Depth to Top: _____ Steel (?): _____
Depth to Bottom: _____

Drop Tubes/Vents: NO

Product Stored: FUEL OIL

Tested (?, details): NO

Status (Active, inactive, etc.): INACTIVE

SITE DESCRIPTION (Geology, water table, monitoring wells, etc.):

SITE/TANK LOCATION SKETCH (Use back is needed):

FORMERLY ATTACHED TO TANK NEXT TO 127
REMOVED 1978

PER INTERVIEW
MR STEWART 2/21/90

Data Collected by: J. Brian IV Date: 2/21/90

4, X

UST INFORMATION FORM

SITE NAME: BLdg 123

TANK IDENTIFICATION NO.: PSF-123 REGISTERED NO

DESCRIPTION: Size (Gal.): _____

Year Installed: _____ Diameter/Length(ft): _____

Depth to Top: _____ Steel (?): _____

Depth to Bottom: _____

Drop Tubes/Vents: no

Product Stored: _____

Tested (?, details): no

Status (Active, inactive, etc.): inactive

SITE DESCRIPTION (Geology, water table, monitoring wells, etc.):

SITE/TANK LOCATION SKETCH (Use back is needed):

FORMERLY ATTACHED TO TANK NEXT TO 127
REMOVED 1978

PER INTERVIEW

M.R. STEWART 2/21/90

Data Collected by: J.B. Kean II Date: 2/21/90

LjX

UST INFORMATION FORM

SITE NAME: Bldg 125

TANK IDENTIFICATION NO.: PSF-125 REGISTERED 10

DESCRIPTION: Size (Gal.): _____

Year Installed: _____ Diameter/Length(ft): _____

Depth to Top: _____ Steel (?): _____

Depth to Bottom: _____

Drop Tubes/Vents: no

Product Stored: _____

Tested (?, details): no

Status (Active, inactive, etc.): inactive

SITE DESCRIPTION (Geology, water table, monitoring wells, etc.):

SITE/TANK LOCATION SKETCH (Use back is needed):

FORMERLY ATTACHED TO TANK NEXT TO 127
REMOVED 1978

PER INTERVIEW
MR. STEWART 2/21/90

Data Collected by: TB Kean II Date: 2/21/90

L,X

UST INFORMATION FORM

SITE NAME: Bldg 126

TANK IDENTIFICATION NO.: PSF-12G REGISTERED NO

DESCRIPTION: Size (Gal.): _____

Year Installed: _____ Diameter/Length(ft): _____

Depth to Top: _____ Steel (?): _____

Depth to Bottom: _____

Drop Tubes/Vents: NO

Product Stored: _____

Tested (?, details): NO

Status (Active, inactive, etc.): inactive

SITE DESCRIPTION (Geology, water table, monitoring wells, etc.):

SITE/TANK LOCATION SKETCH (Use back is needed):

FORMERLY ATTACHED TO TANK NEXT TO 127
REMOVED 1978

PER INTERVIEW

M.R. STEWART 2/21/90

Data Collected by: T.B. Keane II Date: 2/21/90

LC, D, R - 127

L, X - 128

L, X - 129

UST INFORMATION FORM

166A/166B

SITE NAME: BLDG 127, 128, 129 / FORMERLY 166A/166B - 167A/167B

TANK IDENTIFICATION NO.: _____ REGISTERED NO

DESCRIPTION: Size (Gal.): 2000/1500

Year Installed: _____ Diameter/Length(ft): _____
Depth to Top: _____ Steel (?): yes
Depth to Bottom: _____

Drop Tubes/Vents: no

Product Stored: Fuel oil

Tested (?, details): no

Status (Active, inactive, etc.): REMOVED 1978

SITE DESCRIPTION (Geology, water table, monitoring wells, etc.):

SITE/TANK LOCATION SKETCH (Use back is needed):

INTERVIEW BOB TITLMAN DEH

SET ATTACHED

TANK FED THREE HOUSING UNITS NOTED ABOVE.

Data Collected by: Thomas B. Sean II Date: Feb 16, 1990

